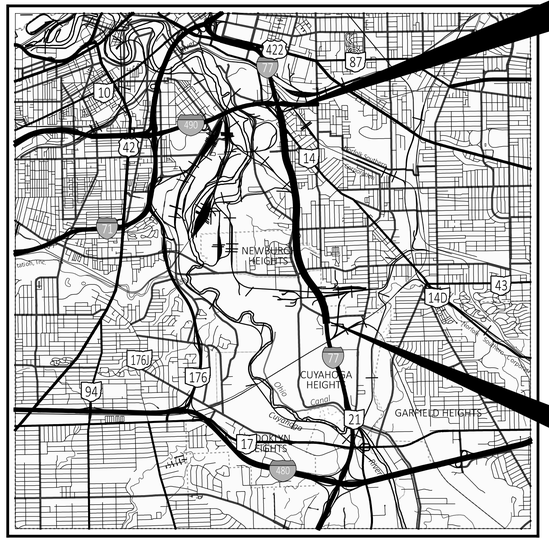
# STATE OF OHIO
# DEPARTMENT OF TRANSPORTATION

# CUY-77-11.41 PART 1

## CITY OF CLEVELAND
## VILLAGE OF CUYAHOGA HEIGHTS
## VILLAGE OF NEWBURGH HEIGHTS
## CUYAHOGA COUNTY

*FOR PART 2, SEE CUY-77-11.21 PART 2*




**LOCATION MAP**

LATITUDE: 41°27'20" LONGITUDE: 81°39'17"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

### DESIGN DESIGNATION

| | |
|---|---|
| CURRENT ADT (2025) | 118,000 |
| DESIGN YEAR ADT (2045) | 126,000 |
| DESIGN HOURLY VOLUME (2045) | 6,550 |
| DIRECTIONAL DISTRIBUTION | 52% |
| TRUCKS (24 HOUR B&C) | 6% |
| DESIGN SPEED | 65 (BEGIN PROJECT TO SLM-13.56)<br>60 (SLM-13.56 TO END PROJECT) |
| LEGAL SPEED | 60 (BEGIN PROJECT TO SLM-13.56)<br>50 (SLM-13.56 TO END PROJECT) |
| DESIGN FUNCTIONAL CLASSIFICATION: | 01 INTERSTATE (URBAN) |
| NHS PROJECT | YES |

### DESIGN EXCEPTIONS

| DESIGN FEATURE | APPROVAL | SHEET NUMBER |
|---|---|---|
| SHOULDER WIDTHS | 6/2/2022 | P.16-P.17 |

### ADA DESIGN WAIVERS

NONE REQUIRED

**UNDERGROUND UTILITIES**
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

TRC
781 Science Boulevard, Suite 200
Gahanna, OH 43230

ENGINEER'S SEAL:

SIGNED:
DATE:

ENGINEER'S SEAL:

SIGNED:
DATE:

### INDEX OF SHEETS:


| | | | |
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| HORIZONTAL CONTROL POINTS | P.14-P.15 | CURB RAMP DETAILS | P.655-P.665 |
| TYPICAL SECTIONS | P.16-P.24 | REMOVAL DETAILS | P.666 |
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| INTERCHANGE DETAILS | P.622-P.642 | GEOTECHNICAL PROFILE - ROADWAY | P.1079-P.1135 |


### FEDERAL PROJECT NUMBER

E191575

### RAILROAD INVOLVEMENT

N/A

### PROJECT DESCRIPTION

THE CUY-77-11.21 PROJECT WILL REPLACE THE PAVEMENT AND WIDEN SHOULDERS ON I-77 FROM GRANT AVENUE IN THE SOUTH TO BROADWAY AVENUE (SR-14) IN THE NORTH. IN CONJUNCTION WITH THE WIDENING, THE PROJECT WILL REPLACE THE DRAINAGE SYSTEM AND INCREASE CAPACITY TO ALLEVIATE FLOODING. THE PROJECT WILL ALSO REPLACE THE I-77 BRIDGE OVER THE MORGANA RUN TRAIL EXTENSION, INSTALL NEW LIGHTING FACILITIES, AND UPDATE TRAFFIC CONTROL ALONG THE CORRIDOR.

### EARTH DISTURBED AREAS

| | |
|---|---|
| PROJECT EARTH DISTURBED AREA: | 72.97 ACRES |
| ESTIMATED CONTRACTOR EARTH DISTURBED AREA: | 1.33 ACRES |
| NOTICE OF INTENT EARTH DISTURBED AREA: | 74.30 ACRES |

### LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

### 2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

### MOT ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR SERVICE INTERCHANGE RAMPS ALONG THE CORRIDOR AS DESCRIBED ON THE MAINTENANCE OF TRAFFIC SHEETS AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

SHEET CROSS REFERENCES NOT CURRENT.
CROSS REFERENCES WILL BE UPDATED AT
STAGE 3 SUBMITTAL.

REFER TO SHEET 2 FOR
STANDARD CONSTRUCTION DRAWINGS
AND SUPPLEMENTAL SPECIFICATIONS

John Picuri
District 12 Deputy Director

Pamela Boratyn
Director, Department of Transportation

Preliminary Plans - For Reference Only

TITLE SHEET

DESIGN AGENCY: TRC
DESIGNER: EAP
REVIEWER: KKP 03/14/22
PROJECT ID: 105743
SHEET: P.1 TOTAL: P.1135

CUY-77-11.43 - PART 1

MODEL: Title Sheet - 1 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:05:39 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GT001.dgn

| STANDARD CONSTRUCTION DRAWINGS | | | | | | | | | | | | SUPPLEMENTAL SPECIFICATIONS | | SPECIAL PROVISIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BP-1.1 | 7/28/00 | RM-1.1 | 1/20/23 | HL-30.22 | 7/18/25 | TC-73.20 | 1/17/25 | ITS-10.10 | 1/17/25 | 800 | 7/18/25 | | | |
| BP-2.1 | 1/21/22 | RM-3.1 | 7/20/18 | HL-30.31 | 1/17/25 | TC-74.10 | 7/21/23 | ITS-10.11 | 7/18/25 | 804 | 7/18/25 | | | |
| BP-2.2 | 1/15/21 | RM-4.1 | 1/17/20 | HL-30.41 | 7/18/25 | TC-83.20 | 7/18/25 | ITS-11.10 | 1/17/25 | 807 | 1/17/25 | | | |
| BP-3.1 | 1/19/24 | RM-4.2 | 7/18/25 | HL-40.20 | 7/19/24 | TC-85.10 | 1/19/24 | ITS-12.10 | 7/18/25 | 809 | 7/18/25 | | | |
| BP-3.2 | 1/18/19 | RM-4.3 | 7/18/25 | HL-50.11 | 1/16/15 | | | ITS-14.10 | 1/17/25 | 813 | 7/21/23 | | | |
| BP-4.1 | 7/19/13 | RM-4.4 | 1/17/25 | HL-50.21 | 7/15/22 | MT-95.30 | 7/18/25 | ITS-14.11 | 7/18/25 | 821 | 4/20/12 | | | |
| BP-5.1 | 7/15/22 | RM-4.5 | 7/18/25 | HL-60.11 | 7/21/17 | MT-95.40 | 7/18/25 | ITS-14.50 | 7/18/25 | 825 | 7/19/24 | | | |
| BP-6.1 | 7/19/13 | RM-4.6 | 7/18/25 | HL-60.31 | 7/19/24 | MT-95.45 | 7/21/23 | ITS-14.60 | 1/17/25 | 832 | 7/18/25 | | | |
| BP-7.1 | 7/18/25 | | | | | MT-98.10 | 1/17/20 | ITS-15.10 | 7/18/25 | 839 | 7/16/21 | | | |
| BP-8.2 | 1/18/19 | I-2A | 7/19/24 | TC-12.31 | 7/18/25 | MT-98.11 | 1/17/20 | ITS-15.11 | 7/18/25 | 867 | 4/15/22 | | | |
| BP-9.1 | 1/18/19 | I-3B,3B1 | 1/17/25 | TC-15.116 | 7/18/25 | MT-98.20 | 4/19/19 | ITS-30.11 | 7/19/24 | 874 | 4/17/20 | | | |
| | | I-3C,3C1 | 1/17/25 | TC-21.11 | 7/16/21 | MT-98.21 | 7/21/23 | ITS-30.12 | 7/18/25 | 875 | 1/17/25 | | | |
| CB-2-3,2-4 | 7/19/24 | I-3D | 7/19/24 | TC-21.21 | 7/18/25 | MT-98.22 | 1/17/20 | ITS-30.13 | 7/18/25 | 878 | 1/21/22 | | | |
| CB-2-5,2-6 | 7/19/24 | | | TC-21.50 | 1/17/25 | MT-98.29 | 1/17/20 | ITS-50.10 | 7/15/22 | 895 | 4/18/14 | | | |
| CB-3 | 7/19/24 | MH-3 | 7/19/24 | TC-22.10 | 1/17/25 | MT-98.30 | 7/18/25 | ITS-50.11 | 7/18/25 | 904 | 7/15/22 | | | |
| CB-3A | 7/19/24 | MH-5 | 7/16/21 | TC-22.20 | 7/18/25 | MT-99.20 | 4/19/19 | ITS-50.12 | 7/19/24 | 909 | 7/18/25 | | | |
| CB-5 | 7/19/24 | | | TC-41.10 | 7/19/13 | MT-99.30 | 1/17/20 | | | 913 | 4/16/21 | | | |
| CB-6 | 7/19/24 | DM-1.1 | 1/17/25 | TC-41.20 | 10/18/13 | MT-99.50 | 7/18/25 | AS-2-15 | 7/21/23 | 921 | 7/19/24 | | | |
| CB-8 | 7/19/24 | DM-1.2 | 1/17/25 | TC-41.30 | 4/21/23 | MT-99.60 | 7/19/24 | EXJ-6-17 | 1/19/24 | 939 | 1/17/20 | | | |
| | | DM-1.3 | 7/18/14 | TC-41.40 | 10/18/13 | MT-101.60 | 1/17/25 | HW-2.1 | 7/15/22 | | | | | |
| F-1.1 | 7/18/25 | DM-2.1 | 1/18/13 | TC-41.50 | 10/18/13 | MT-101.70 | 7/19/24 | HW-2.2 | 7/20/18 | | | | | |
| F-3.1 | 7/19/13 | DM-4.1 | 7/17/20 | TC-42.10 | 10/18/13 | MT-101.75 | 7/21/23 | PCB-91 | 7/17/20 | | | | | |
| F-3.3 | 7/19/13 | DM-4.2 | 7/20/12 | TC-42.20 | 10/18/13 | MT-101.80 | 1/17/20 | SBR-1-20 | 7/19/24 | | | | | |
| F-3.4 | 7/19/13 | DM-4.3 | 1/15/16 | TC-51.11 | 7/18/25 | MT-101.90 | 7/17/20 | VPF-1-24 | 1/17/25 | | | | | |
| | | DM-4.4 | 1/15/16 | TC-52.10 | 10/18/13 | MT-102.10 | 7/21/23 | | | | | | | |
| MGS-2.1 | 7/18/25 | | | TC-52.20 | 1/15/21 | MT-102.20 | 4/19/19 | | | | | | | |
| MGS-3.1 | 7/18/25 | HL-10.11 | 7/21/23 | TC-61.10 | 4/21/23 | MT-102.30 | 10/16/15 | | | | | | | |
| MGS-3.2 | 7/18/25 | HL-10.12 | 7/21/23 | TC-61.30 | 7/19/24 | MT-103.10 | 7/18/25 | | | | | | | |
| MGS-4.2 | 7/18/25 | HL-10.13 | 1/20/23 | TC-64.10 | 7/21/23 | MT-104.10 | 1/19/24 | | | | | | | |
| MGS-5.2 | 7/15/16 | HL-20.11 | 7/18/25 | TC-65.10 | 1/17/14 | MT-105.10 | 1/17/20 | | | | | | | |
| MGS-5.3 | 7/15/16 | HL-20.13 | 7/18/25 | TC-65.11 | 1/19/24 | MT-110.10 | 7/19/13 | | | | | | | |
| MGS-6.1 | 1/19/18 | HL-30.11 | 7/21/23 | TC-71.10 | 7/18/25 | | | | | | | | | |
| | | HL-30.21 | 4/17/20 | TC-72.20 | 7/18/25 | | | | | | | | | |

Preliminary Plans - For Reference Only

TITLE SHEET

CUY-77-11.43 - PART 1

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DESIGN AGENCY
TRC

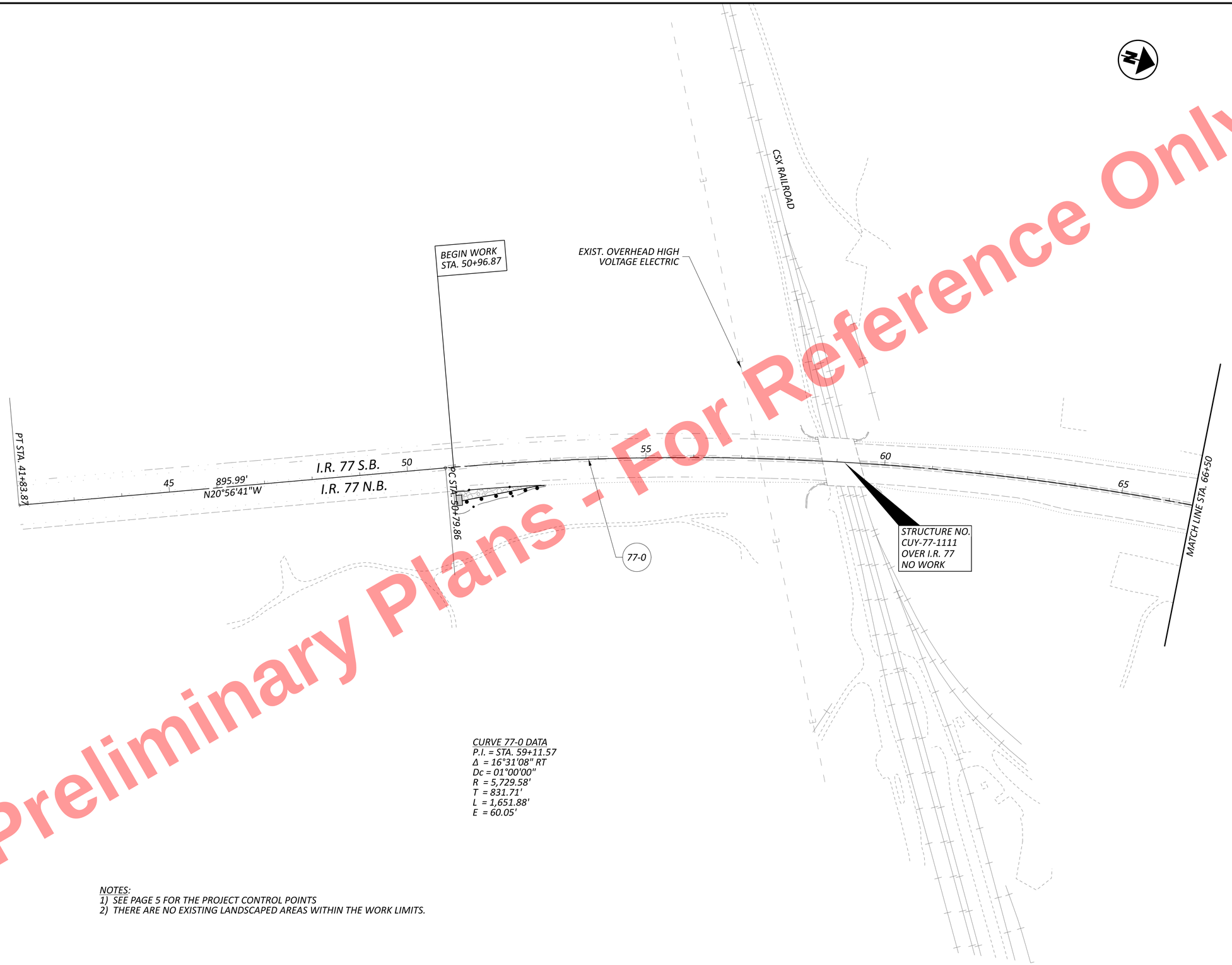
DESIGNER
NRE

REVIEWER
KKP 03/14/22

PROJECT ID
105743

SHEET P.2 TOTAL P.1135

Preliminary Plans - For Reference Only




*CURVE 77-0 DATA*
*P.I. = STA. 59+11.57*
*Δ = 16°31'08" RT*
*Dc = 01°00'00"*
*R = 5,729.58'*
*T = 831.71'*
*L = 1,651.88'*
*E = 60.05'*

*NOTES:*
1) *SEE PAGE 5 FOR THE PROJECT CONTROL POINTS*
2) *THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.*

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## BEGIN TO STA. 66+50.00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.3 TOTAL P.1135

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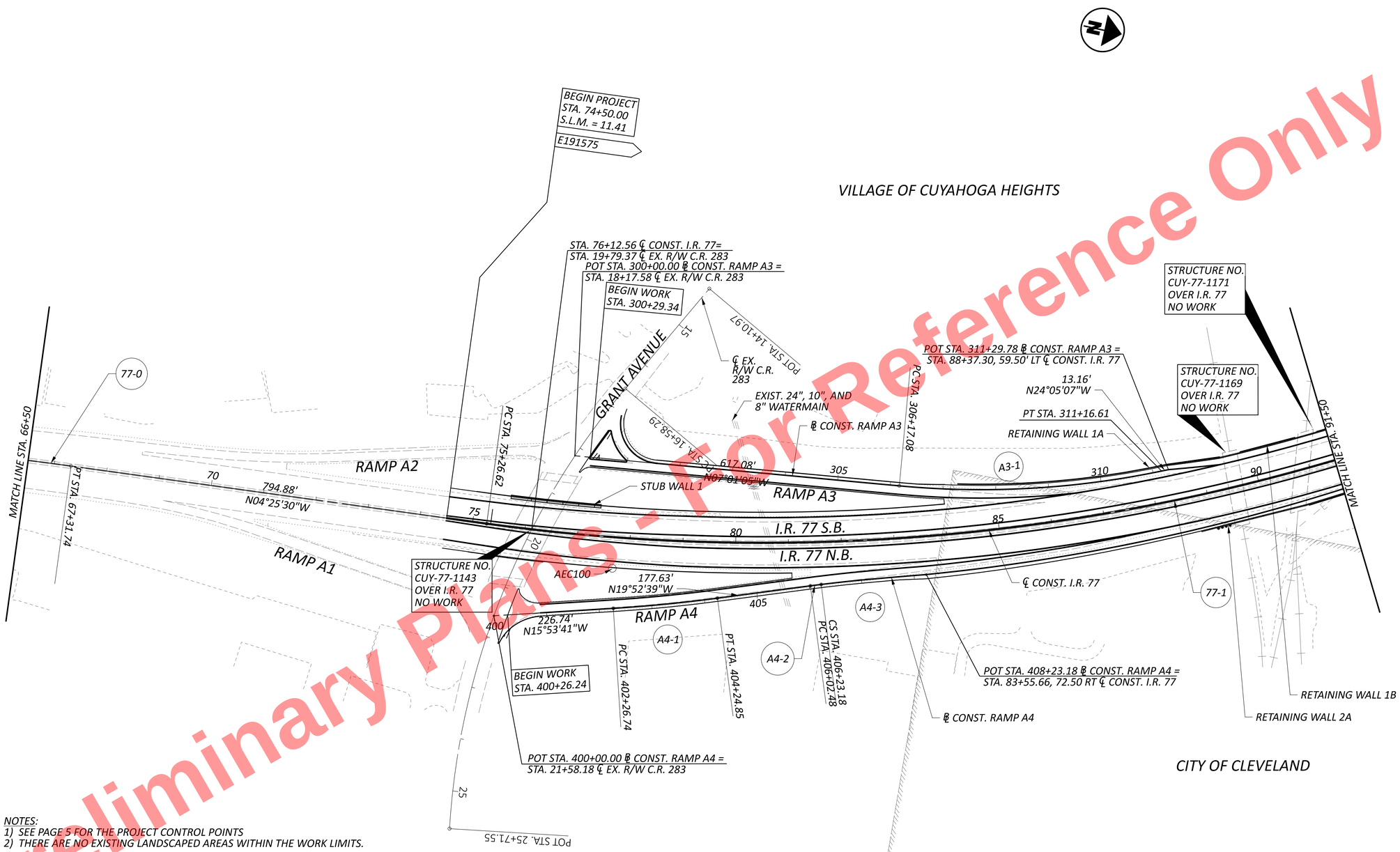
Preliminary Plans - For Reference Only




NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

**CURVE 77-0 DATA**
P.I. = STA. 59+11.57
Δ = 16°31'08" RT
Dc = 01°00'00"
R = 5,729.58'
T = 831.71'
L = 1,651.88'
E = 60.05'

**CURVE A3-1 DATA**
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

**CURVE A4-1 DATA**
P.I. = STA. 403+25.84
Δ = 03°58'58" LT
Dc = 02°00'37"
R = 2,850.00'
T = 99.10'
L = 198.11'
E = 1.72'

**CURVE A4-2 DATA**
P.I. = STA. 406+12.83
Δ = 00°31'02" RT
Dc = 02°29'59"
R = 2,292.00'
T = 10.35'
L = 20.69'
E = .02'

**SPIRAL A4-3 DATA**
P.I. = STA. 406+89.85
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.90'
y = 5.82'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 406+23.18
End = Sta. 400+00.00
C.B. = N17°41'37"W

**CURVE 77-1 DATA**
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 66+50.00 TO STA. 91+50.00

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | KMM |
| REVIEWER | KKP 07/18/25 |
| PROJECT ID | 105743 |
| SHEET | P.4 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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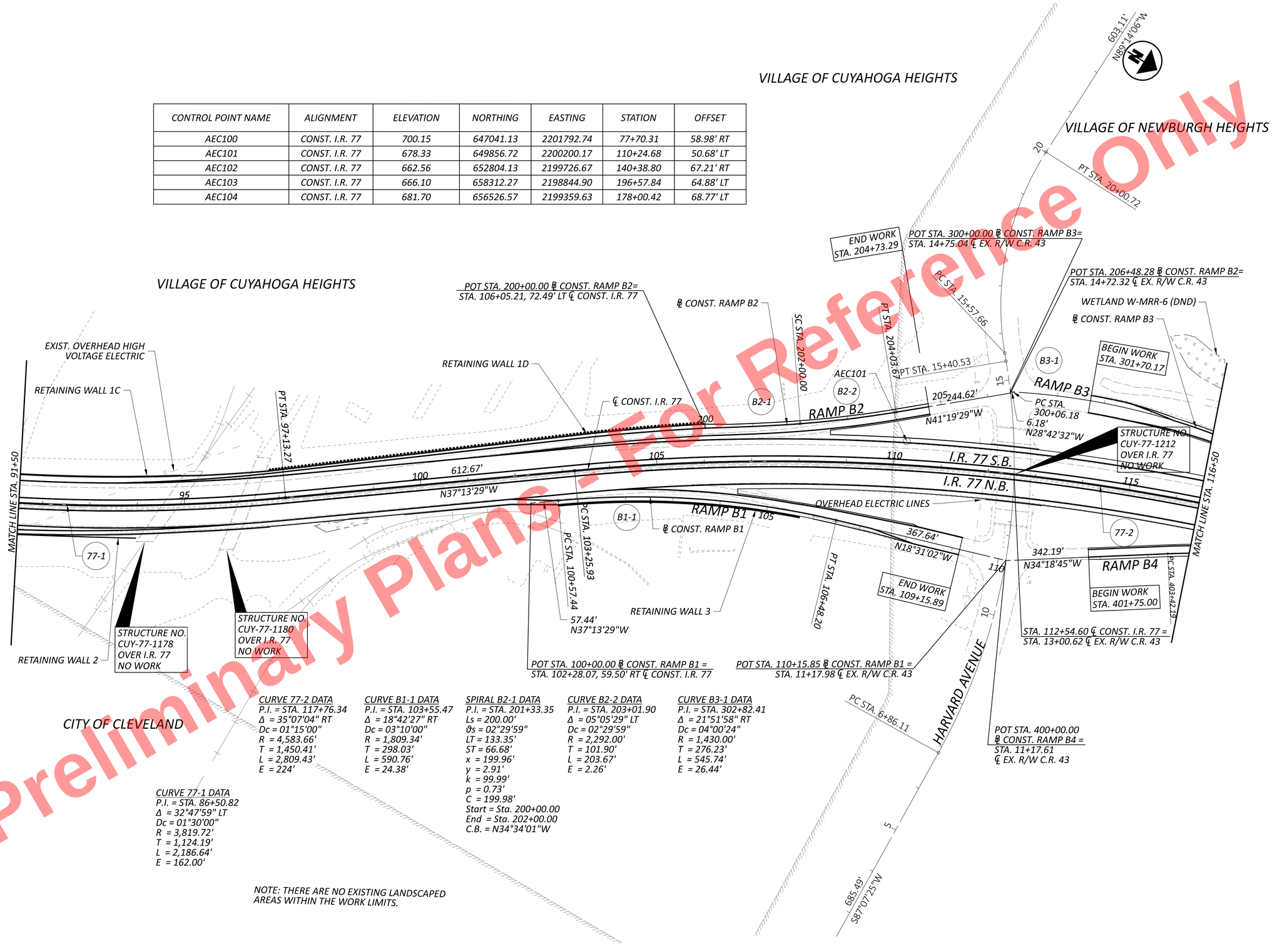
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

| CONTROL POINT NAME | ALIGNMENT | ELEVATION | NORTHING | EASTING | STATION | OFFSET |
|---|---|---|---|---|---|---|
| AEC100 | CONST. I.R. 77 | 700.15 | 647041.13 | 2201792.74 | 77+70.31 | 58.98' RT |
| AEC101 | CONST. I.R. 77 | 678.33 | 649856.72 | 2200200.17 | 110+24.68 | 50.68' LT |
| AEC102 | CONST. I.R. 77 | 662.56 | 652804.13 | 2199726.67 | 140+38.80 | 67.21' RT |
| AEC103 | CONST. I.R. 77 | 666.10 | 658312.27 | 2198844.90 | 196+57.84 | 64.88' LT |
| AEC104 | CONST. I.R. 77 | 681.70 | 656526.57 | 2199359.63 | 178+00.42 | 68.77' LT |




CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

SPIRAL B2-1 DATA
P.I. = STA. 201+33.35
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 200+00.00
End = Sta. 202+00.00
C.B. = N34°34'01"W

CURVE B2-2 DATA
P.I. = STA. 203+01.90
Δ = 05°05'29" LT
Dc = 02°29'59"
R = 2,292.00'
T = 101.90'
L = 203.67'
E = 2.26'

CURVE B3-1 DATA
P.I. = STA. 302+82.41
Δ = 21°51'58" RT
Dc = 04°00'24"
R = 1,430.00'
T = 276.23'
L = 545.74'
E = 26.44'

NOTE: THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 91+50.00 TO STA. 116+50.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.5 TOTAL P.1135

CUY-77-11.43 - PART 1

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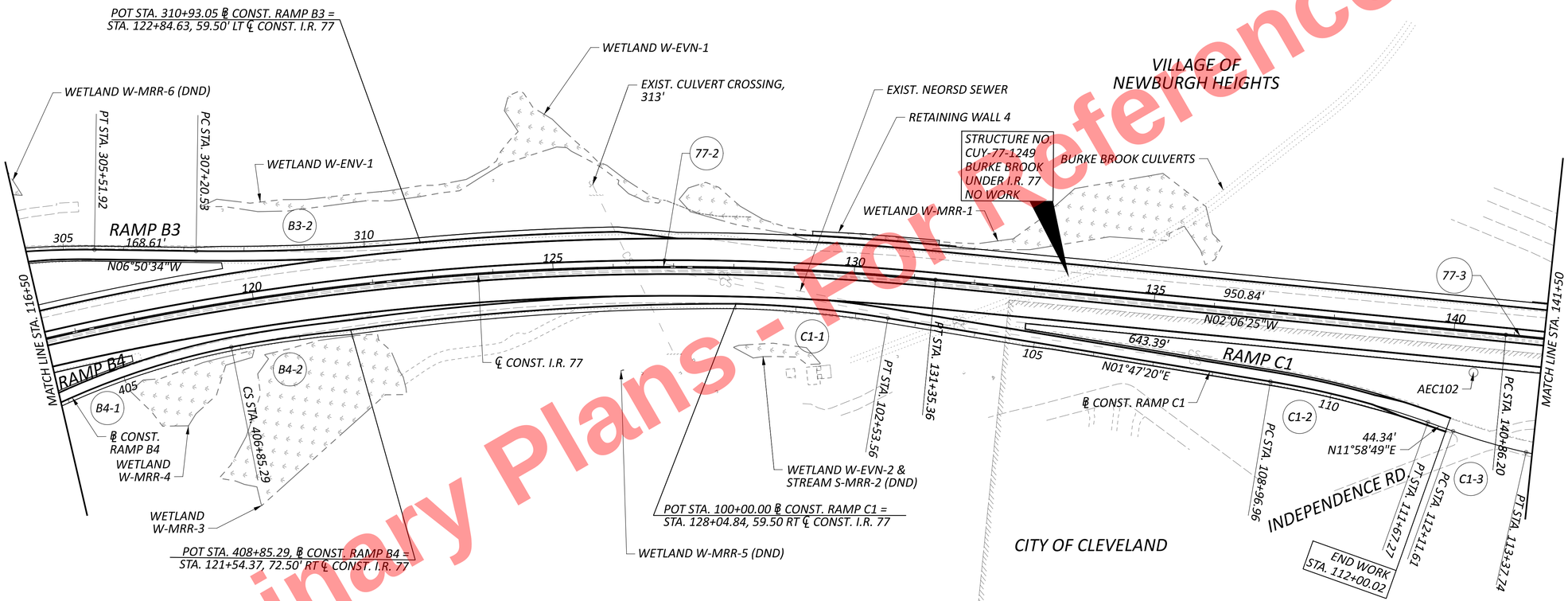
Preliminary Plans - For Reference Only




NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE B3-2 DATA
P.I. = STA. 309+06.95
Δ = 05°53'53" LT
Dc = 01°35'00"
R = 3,618.68'
T = 186.42'
L = 372.52'
E = 4.80'

CURVE B4-1 DATA
P.I. = STA. 405+14.78
Δ = 15°26'33" RT
Dc = 04°30'03"
R = 1,273.00'
T = 172.6'
L = 343.1'
E = 11.65'

SPIRAL B4-2 DATA
P.I. = STA. 407+51.99
Ls = 200.00'
ϑs = 04°30'03"
LT = 133.38'
ST = 66.71'
x = 199.67'
y = 10.47'
k = 99.98'
p = 1.31'
C = 199.95'
Start = Sta. 406+85.29
End = Sta. 408+85.29
C.B. = N15°52'10"W

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224'

CURVE 77-3 DATA
P.I. = STA. 144+13.27
Δ = 04°54'11" RT
Dc = 00°45'00"
R = 7,639.44'
T = 327.07'
L = 653.74'
E = 7'

CURVE C1-1 DATA
P.I. = STA. 101+27.03
Δ = 08°01'37" RT
Dc = 03°10'00"
R = 1,809.34'
T = 126.95'
L = 253.48'
E = 4.45'

CURVE C1-2 DATA
P.I. = STA. 110+32.47
Δ = 10°11'29" RT
Dc = 03°46'13"
R = 1,519.70'
T = 135.52'
L = 270.32'
E = 6.03'

CURVE C1-3 DATA
P.I. = STA. 112+74.75
Δ = 06°55'22" LT
Dc = 05°29'18"
R = 1,043.93'
T = 63.14'
L = 126.13'
E = 1.91'

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 116+50.00 TO STA. 141+50.00

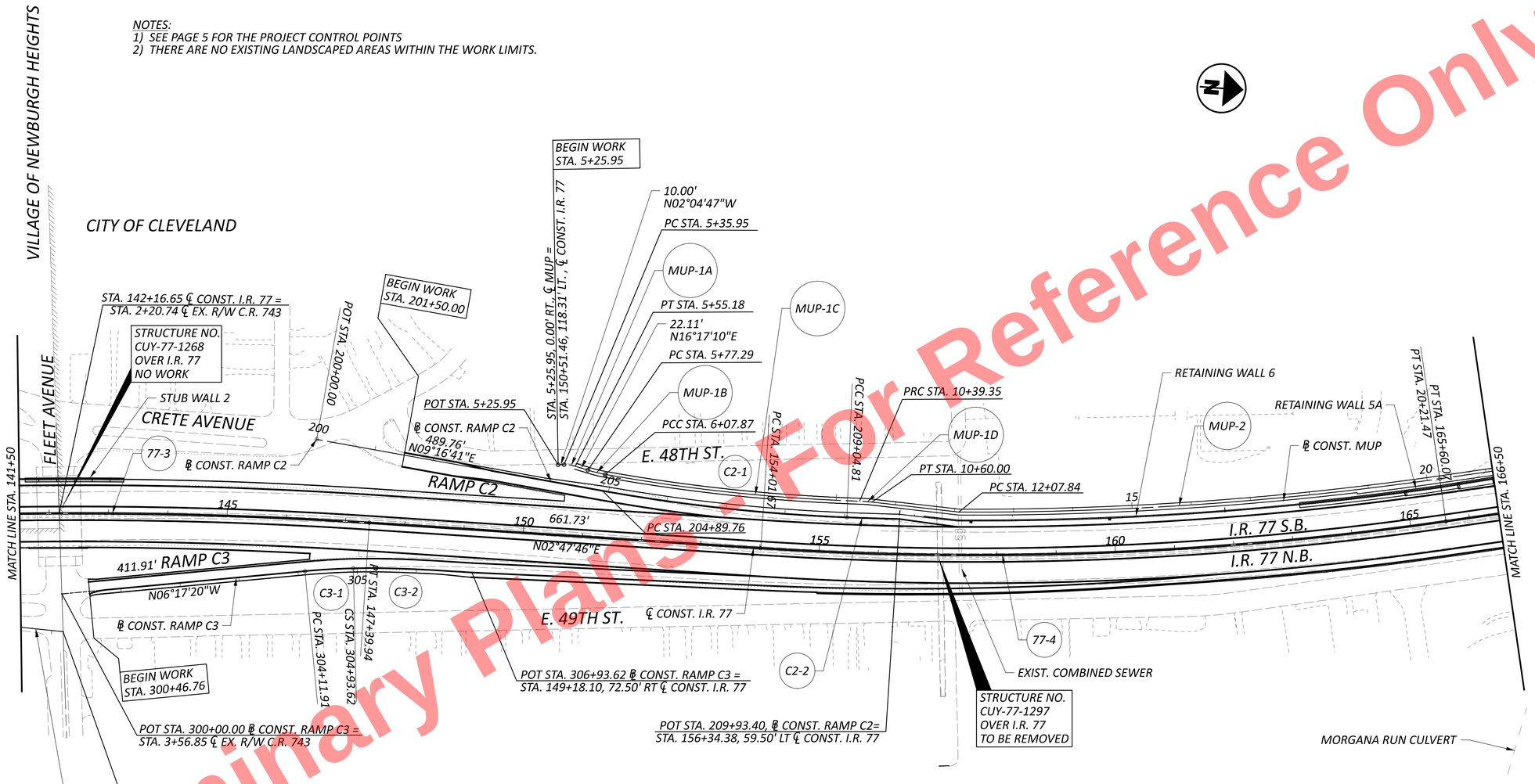
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | KKP 07/18/25 |
| PROJECT ID | 105743 |
| SHEET | P.6 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1a-5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.




Preliminary Plans - For Reference Only

CURVE C3-1 DATA
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

SPIRAL C3-2 DATA
P.I. = STA. 305+60.34
Ls = 200.00'
ϑs = 04°59'59"
LT = 133.39'
ST = 66.72'
x = 199.59'
y = 11.62'
k = 99.97'
p = 1.45'
C = 199.93'
Start = Sta. 304+93.62
End = Sta. 306+93.62
C.B. = N01°07'47"E

CURVE 77-3 DATA
P.I. = STA. 144+13.27
Δ = 04°54'11" RT
Dc = 00°45'00"
R = 7,639.44'
T = 327.07'
L = 653.74'
E = 7'

CURVE 77-4 DATA
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

CURVE C2-1 DATA
P.I. = STA. 206+97.62
Δ = 07°57'19" LT
Dc = 01°55'00"
R = 2,989.35'
T = 207.86'
L = 415.06'
E = 7.22'

CURVE C2-2 DATA
P.I. = STA. 209+49.11
Δ = 00°55'18" LT
Dc = 01°02'25"
R = 5,507.62'
T = 44.29'
L = 88.59'
E = 0.18'

CURVE MUP-2 DATA
P.I. = STA. 16+15.40
Δ = 08°29'03" LT
Dc = 01°02'34"
R = 5,494.67'
T = 407.56'
L = 813.63'
E = 15.09'

HORIZONTAL SCALE IN FEET
0 50 100 200

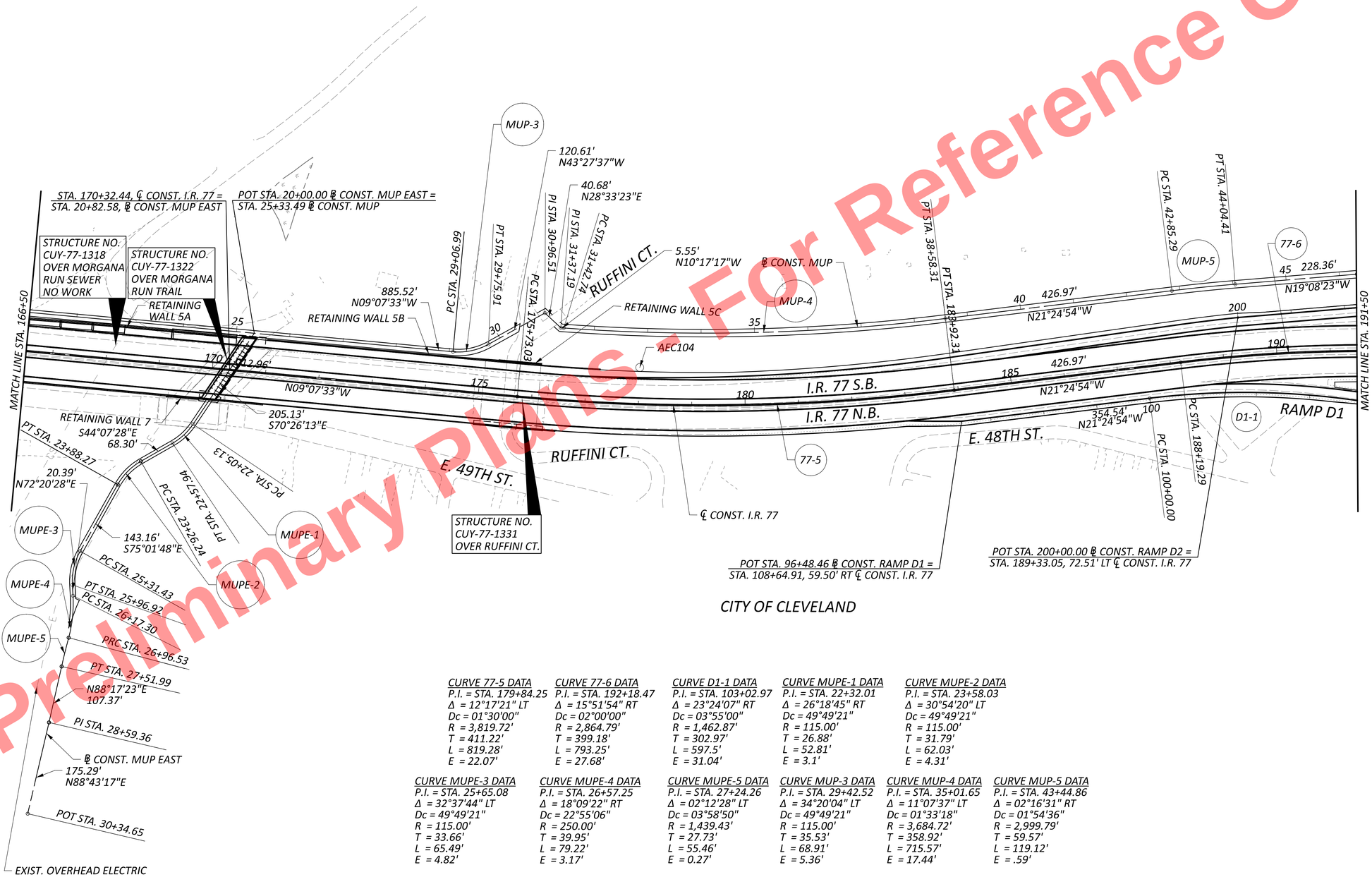
# SCHEMATIC PLAN
## STA. 141+50.00 TO STA. 166+50.00

DESIGN AGENCY
HNTB
DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.7 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1a-6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.




CITY OF CLEVELAND

**CURVE 77-5 DATA**
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

**CURVE 77-6 DATA**
P.I. = STA. 192+18.47
Δ = 15°51'54" RT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

**CURVE D1-1 DATA**
P.I. = STA. 103+02.97
Δ = 23°24'07" RT
Dc = 03°55'00"
R = 1,462.87'
T = 302.97'
L = 597.5'
E = 31.04'

**CURVE MUPE-1 DATA**
P.I. = STA. 22+32.01
Δ = 26°18'45" RT
Dc = 49°49'21"
R = 115.00'
T = 26.88'
L = 52.81'
E = 3.1'

**CURVE MUPE-2 DATA**
P.I. = STA. 23+58.03
Δ = 30°54'20" LT
Dc = 49°49'21"
R = 115.00'
T = 31.79'
L = 62.03'
E = 4.31'

**CURVE MUPE-3 DATA**
P.I. = STA. 25+65.08
Δ = 32°37'44" LT
Dc = 49°49'21"
R = 115.00'
T = 33.66'
L = 65.49'
E = 4.82'

**CURVE MUPE-4 DATA**
P.I. = STA. 26+57.25
Δ = 18°09'22" RT
Dc = 22°55'06"
R = 250.00'
T = 39.95'
L = 79.22'
E = 3.17'

**CURVE MUPE-5 DATA**
P.I. = STA. 27+24.26
Δ = 02°12'28" LT
Dc = 03°58'50"
R = 1,439.43'
T = 27.73'
L = 55.46'
E = 0.27'

**CURVE MUP-3 DATA**
P.I. = STA. 29+42.52
Δ = 34°20'04" LT
Dc = 49°49'21"
R = 115.00'
T = 35.53'
L = 68.91'
E = 5.36'

**CURVE MUP-4 DATA**
P.I. = STA. 35+01.65
Δ = 11°07'37" LT
Dc = 01°33'18"
R = 3,684.72'
T = 358.92'
L = 715.57'
E = 17.44'

**CURVE MUP-5 DATA**
P.I. = STA. 43+44.86
Δ = 02°16'31" RT
Dc = 01°54'36"
R = 2,999.79'
T = 59.57'
L = 119.12'
E = .59'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 166+50.00 TO STA. 191+50.00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.8 TOTAL P.1135

MODEL: CLP_I077 - Plan 1a-7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I077 - Plan 1a-8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

CUY-77-11.43 - PART 1

Preliminary Plans - For Reference Only

*CURVE D1-1 DATA*
*P.I. = STA. 103+02.97*
*Δ = 23°24'07" RT*
*Dc = 03°55'00"*
*R = 1,462.87'*
*T = 302.97'*
*L = 597.5'*
*E = 31.04'*

*CURVE D2-1 DATA*
*P.I. = STA. 207+09.06*
*Δ = 13°43'32" RT*
*Dc = 05°47'31"*
*R = 989.23'*
*T = 119.06'*
*L = 236.98'*
*E = 7.14'*

*CURVE MUP-6 DATA*
*P.I. = STA. 49+37.51*
*Δ = 12°31'39" RT*
*Dc = 02°03'49"*
*R = 2,776.44'*
*T = 304.74'*
*L = 607.05'*
*E = 16.67'*

*CURVE 77-6 DATA*
*P.I. = STA. 192+18.47*
*Δ = 15°51'54" RT*
*Dc = 02°00'00"*
*R = 2,864.79'*
*T = 399.18'*
*L = 793.25'*
*E = 27.68'*

*CURVE 77-7 DATA*
*P.I. = STA. 218+10.24*
*Δ = 09°36'34" LT*
*Dc = 01°00'00"*
*R = 5,729.58'*
*T = 481.61'*
*L = 960.96'*
*E = 20.21'*

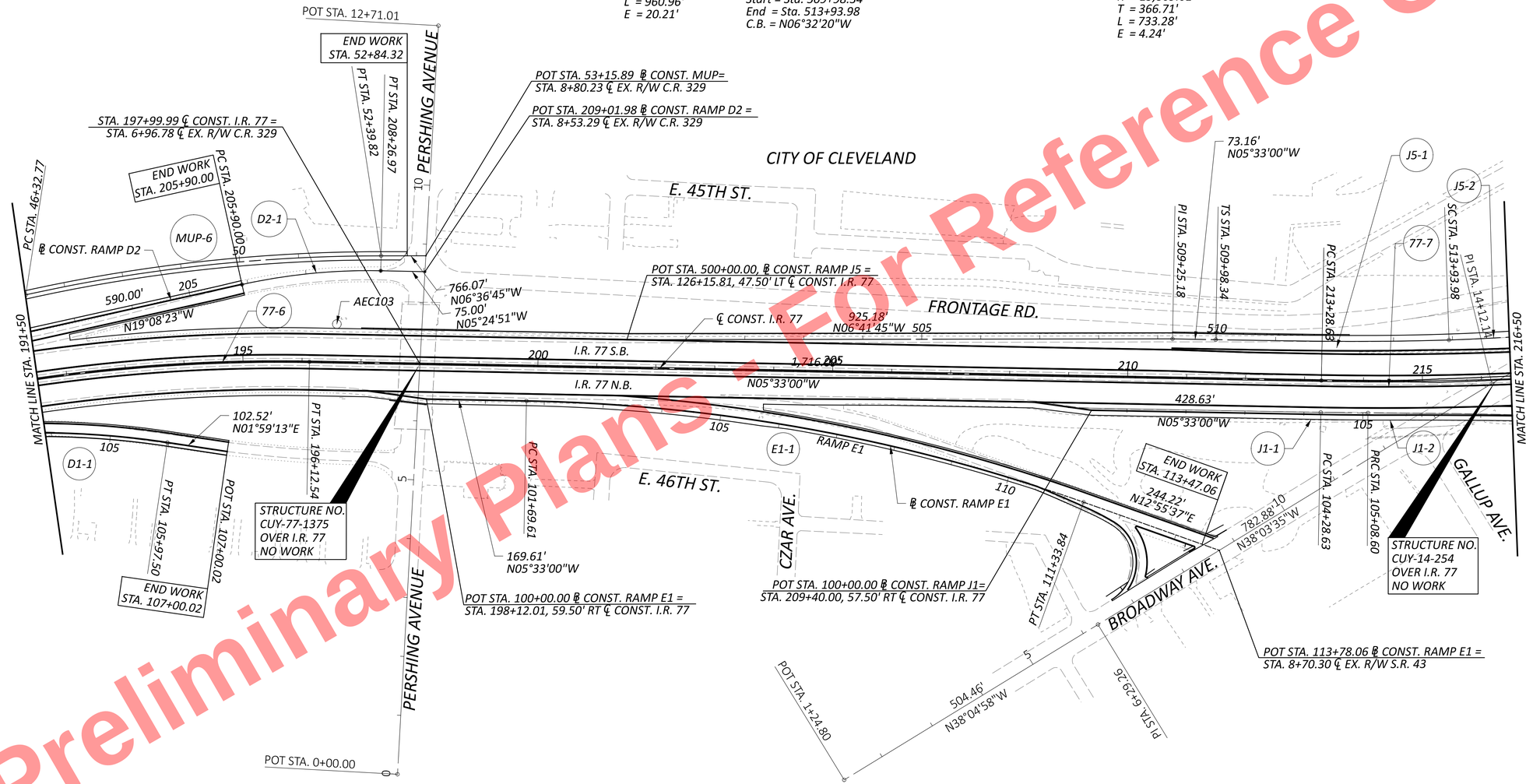
*SPIRAL J5-1 DATA*
*P.I. = STA. 512+62.14*
*Ls = 395.63'*
*ϑs = 02°58'02"*
*LT = 263.79'*
*ST = 131.91'*
*x = 395.53'*
*y = 6.83'*
*k = 197.80'*
*p = 1.71'*
*C = 395.58'*
*Start = Sta. 509+98.34*
*End = Sta. 513+93.98*
*C.B. = N06°32'20"W*

*CURVE J5-2 DATA*
*P.I. = STA. 514+98.77*
*Δ = 03°08'35" LT*
*Dc = 01°30'00"*
*R = 3,819.72'*
*T = 104.80'*
*L = 209.54'*
*E = 1.44'*

*CURVE E1-1 DATA*
*P.I. = STA. 106+55.95*
*Δ = 18°28'37" RT*
*Dc = 01°54'58"*
*R = 2,990.00'*
*T = 486.34'*
*L = 964.23'*
*E = 39.29'*

*CURVE J1-1 DATA*
*P.I. = STA. 104+68.62*
*Δ = 00°47'32" LT*
*Dc = 00°59'26"*
*R = 5,783.58'*
*T = 39.99'*
*L = 79.97'*
*E = 0.14'*

*CURVE J1-2 DATA*
*P.I. = STA. 108+75.31*
*Δ = 02°38'51" RT*
*Dc = 00°21'40"*
*R = 15,869.61'*
*T = 366.71'*
*L = 733.28'*
*E = 4.24'*




*NOTES:*
1) *SEE PAGE 5 FOR THE PROJECT CONTROL POINTS*
2) *THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.*

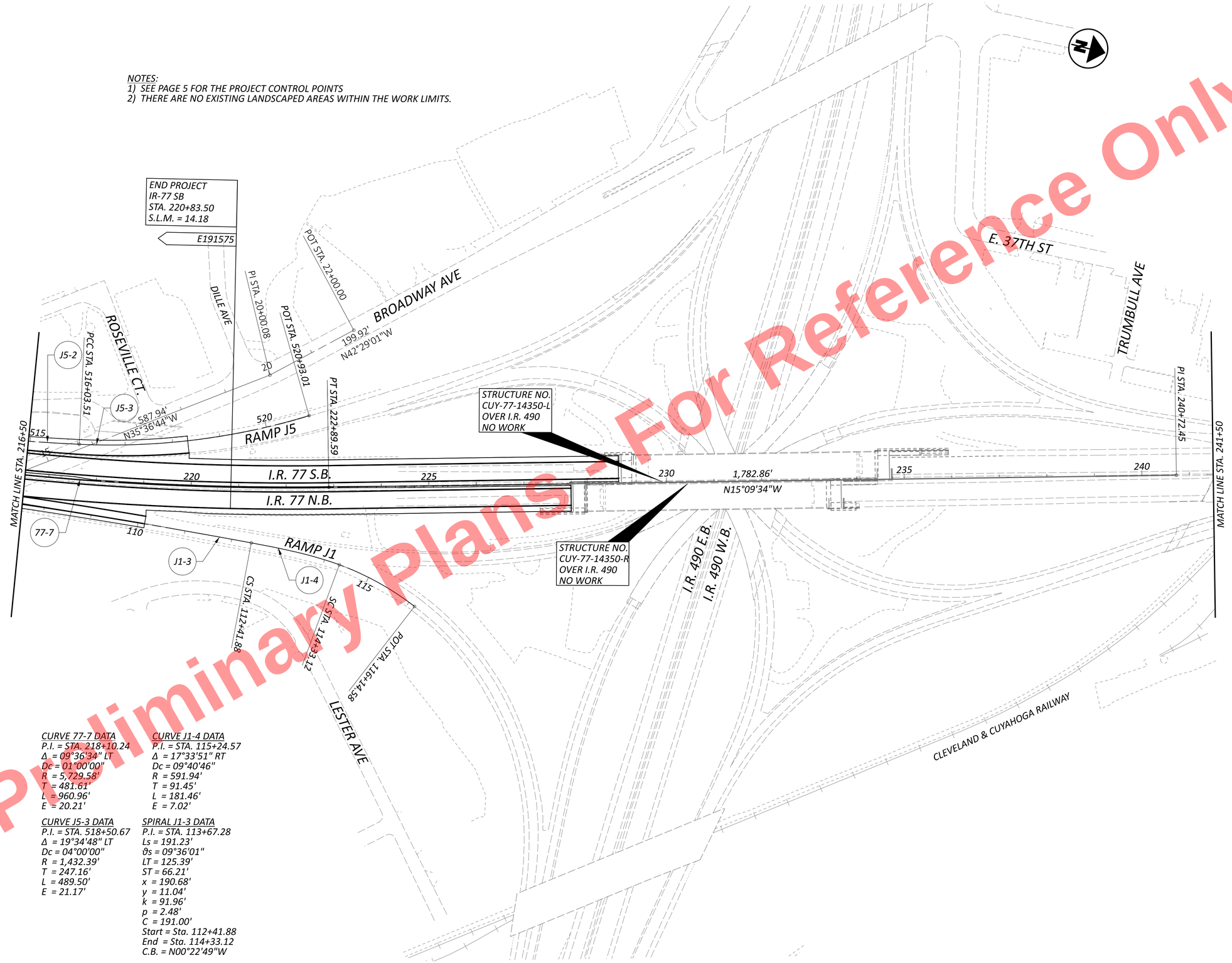
HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 191+50.00 TO STA. 216+50.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.9 TOTAL P.1135

NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.




Preliminary Plans - For Reference Only

CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

CURVE J5-3 DATA
P.I. = STA. 518+50.67
Δ = 19°34'48" LT
Dc = 04°00'00"
R = 1,432.39'
T = 247.16'
L = 489.50'
E = 21.17'

CURVE J1-4 DATA
P.I. = STA. 115+24.57
Δ = 17°33'51" RT
Dc = 09°40'46"
R = 591.94'
T = 91.45'
L = 181.46'
E = 7.02'

SPIRAL J1-3 DATA
P.I. = STA. 113+67.28
Ls = 191.23'
ϑs = 09°36'01"
LT = 125.39'
ST = 66.21'
x = 190.68'
y = 11.04'
k = 91.96'
p = 2.48'
C = 191.00'
Start = Sta. 112+41.88
End = Sta. 114+33.12
C.B. = N00°22'49"W

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
# STA. 216+50.00 TO STA. 241+50.00

DESIGN AGENCY
HNTB

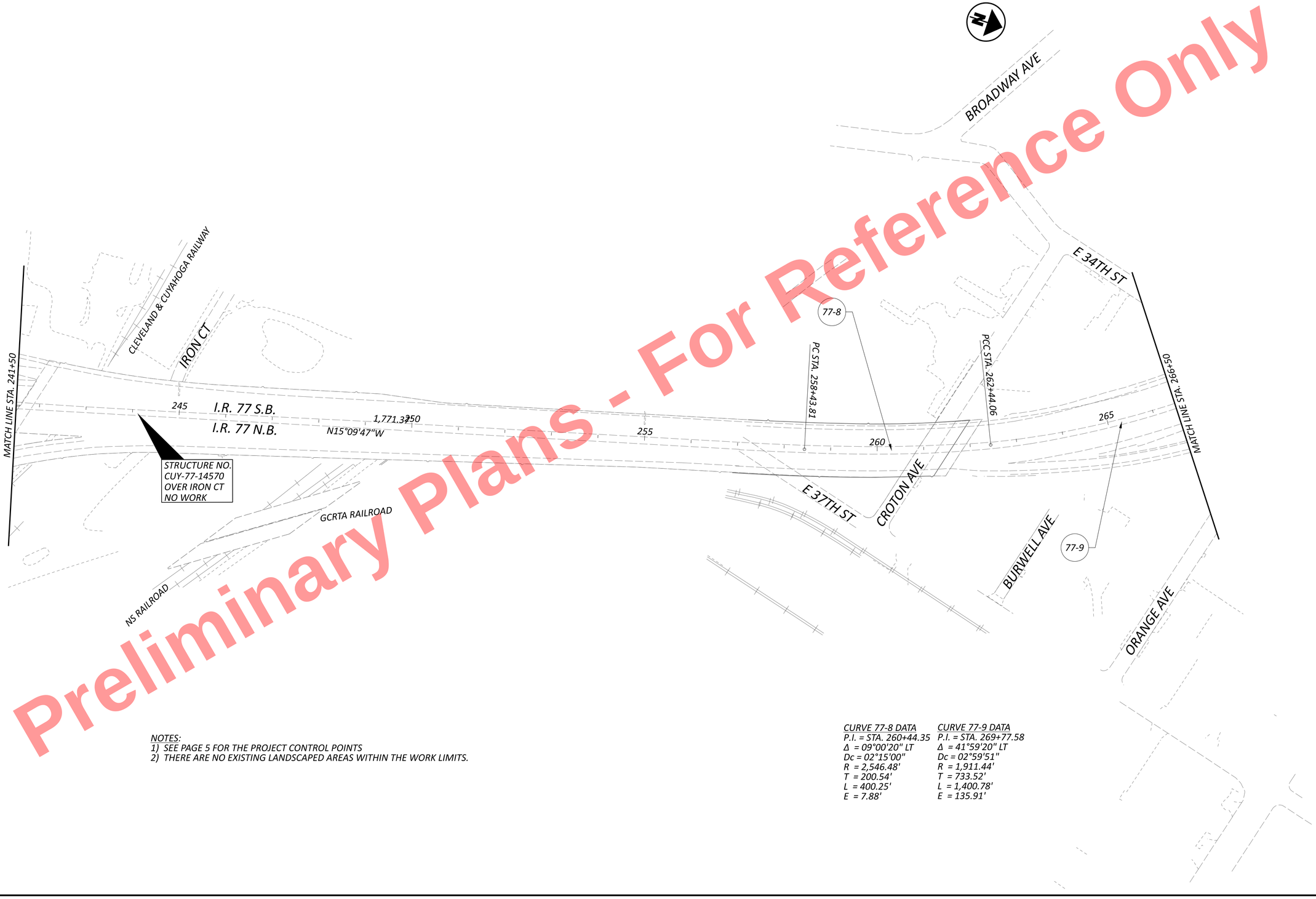
DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.10 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1a-9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

MODEL: CLP_I077 - Plan 1a-10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

CUY-77-11.43 - PART 1




Preliminary Plans - For Reference Only

NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE 77-8 DATA
P.I. = STA. 260+44.35
Δ = 09°00'20" LT
Dc = 02°15'00"
R = 2,546.48'
T = 200.54'
L = 400.25'
E = 7.88'

CURVE 77-9 DATA
P.I. = STA. 269+77.58
Δ = 41°59'20" LT
Dc = 02°59'51"
R = 1,911.44'
T = 733.52'
L = 1,400.78'
E = 135.91'

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 241+50.00 TO STA. 266+50.00

DESIGN AGENCY
HNTB

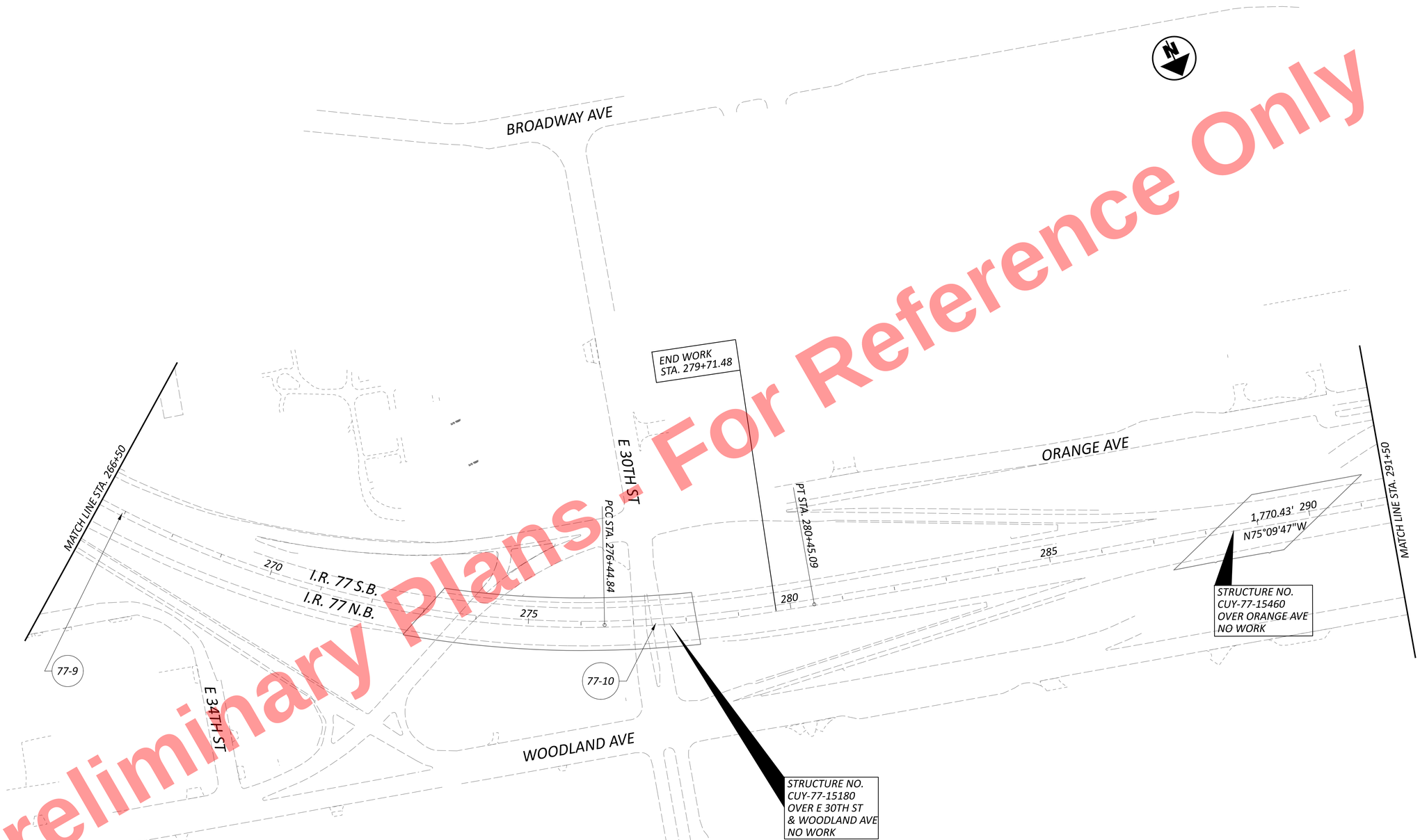
DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.11 TOTAL P.1135

Preliminary Plans - For Reference Only




NOTES:
1) SEE PAGE 5 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE 77-9 DATA
P.I. = STA. 269+77.58
Δ = 41°59'20" LT
Dc = 02°59'51"
R = 1,911.44'
T = 733.52'
L = 1,400.78'
E = 135.91'

CURVE 77-10 DATA
P.I. = STA. 278+45.38
Δ = 09°00'20" LT
Dc = 02°15'00"
R = 2,546.48'
T = 200.54'
L = 400.25'
E = 7.88'

HORIZONTAL SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 266+50.00 TO STA. 291+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | KKP 07/18/25 |
| PROJECT ID | 105743 |
| SHEET | P.12 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1a-11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCtv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

Preliminary Plans - For Reference Only

S BROADWAY AVE

ONTARIO ST

ORANGE AVE

E 14TH ST

300

305

I.R. 77 S.B.

I.R. 77 N.B.

295 1,770.43'
N75°09'47"W

MATCH LINE STA. 291+50.00

PC STA. 298+15.53

STRUCTURE NO.
CUY-77-15620
OVER E 22ND ST
NO WORK

77-11

STRUCTURE NO.
CUY-77-15750
OVER E 14TH ST
NO WORK

POT STA. 305+81.36

WOODLAND AVE

E 22ND ST

I - 90 E.B.

I - 90 W.B.

*CURVE 77-11 DATA*
*P.I. = STA. 302+03.53*
*Δ = 22°41'36" RT*
*Dc = 02°57'48"*
*R = 1,933.55'*
*T = 388.00'*
*L = 765.83'*
*E = 38.55'*

*NOTES:*
1) *SEE PAGE 5 FOR THE PROJECT CONTROL POINTS*
2) *THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.*

HORIZONTAL
SCALE IN FEET
0 50 100 200

# SCHEMATIC PLAN
## STA. 291+50.00 TO END

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.13 | TOTAL P.1135

MODEL: CLP_I077 - Plan 1a-12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

| CURVE | ALIGNMENT | CONTROL POINT | NORTHING | EASTING | STATION | BEARING |
|---|---|---|---|---|---|---|
| 77-0 | I.R. 77 | P.C. | 644392.14 | 2202183.68 | 50+79.86 | N20°56'37"W |
| 77-0 | I.R. 77 | P.I. | 645168.9 | 2201886.38 | 59+11.57 | |
| 77-0 | I.R. 77 | P.T. | 645998.13 | 2201822.21 | 67+31.74 | N04°25'30"W |
| | | | | | | |
| 77-1 | I.R. 77 | P.C. | 646790.65 | 2201760.88 | 75+26.62 | N04°25'30"W |
| 77-1 | I.R. 77 | P.I. | 647911.49 | 2201674.15 | 86+50.82 | |
| 77-1 | I.R. 77 | P.T. | 648806.65 | 2200994.08 | 97+13.27 | N37°13'29"W |
| | | | | | | |
| 77-2 | I.R. 77 | P.C. | 649294.49 | 2200623.45 | 103+25.93 | N37°13'29"W |
| 77-2 | I.R. 77 | P.I. | 650449.41 | 2199746.04 | 117+76.34 | |
| 77-2 | I.R. 77 | P.T. | 651898.84 | 2199692.72 | 131+35.36 | N02°06'25"W |
| | | | | | | |
| 77-3 | I.R. 77 | P.C. | 652849.04 | 2199657.76 | 140+86.20 | N02°06'25"W |
| 77-3 | I.R. 77 | P.I. | 653175.88 | 2199645.74 | 144+13.27 | |
| 77-3 | I.R. 77 | P.T. | 653502.56 | 2199661.69 | 147+39.94 | N02°47'46"E |
| | | | | | | |
| 77-4 | I.R. 77 | P.C. | 654163.5 | 2199693.98 | 154+01.67 | N02°47'46"E |
| 77-4 | I.R. 77 | P.I. | 654744.11 | 2199722.33 | 159+82.97 | |
| 77-4 | I.R. 77 | P.T. | 655318.05 | 2199630.14 | 165+60.07 | N09°07'33"W |
| | | | | | | |
| 77-5 | I.R. 77 | P.C. | 656318.19 | 2199469.48 | 175+73.03 | N09°07'33"W |
| 77-5 | I.R. 77 | P.I. | 656724.21 | 2199404.26 | 179+84.25 | |
| 77-5 | I.R. 77 | P.T. | 657107.03 | 2199254.12 | 183+92.31 | N21°24'54"W |
| | | | | | | |
| 77-6 | I.R. 77 | P.C. | 657504.53 | 2199098.22 | 188+19.29 | N21°24'54"W |
| 77-6 | I.R. 77 | P.I. | 657876.15 | 2198952.47 | 192+18.47 | |
| 77-6 | I.R. 77 | P.T. | 658273.46 | 2198913.86 | 196+12.54 | N05°33'00"W |
| | | | | | | |
| 77-7 | I.R. 77 | P.C. | 659981.51 | 2198747.89 | 213+28.63 | N05°33'00"W |
| 77-7 | I.R. 77 | P.I. | 660460.85 | 2198701.32 | 218+10.24 | |
| 77-7 | I.R. 77 | P.T. | 660925.7 | 2198575.37 | 222+89.59 | N15°09'34"W |
| | | | | | | |
| 77-8 | I.R. 77 | P.C. | 664356.22 | 2197645.81 | 258+43.82 | N15°09'47"W |
| 77-8 | I.R. 77 | P.I. | 664549.78 | 2197593.36 | 260+44.35 | |
| 77-8 | I.R. 77 | P.C.C | 664732.73 | 2197511.25 | 262+44.06 | N24°10'07"W |
| | | | | | | |
| 77-9 | I.R. 77 | P.C. | 664732.73 | 2197511.25 | 262+44.06 | N24°10'07"W |
| 77-9 | I.R. 77 | P.I. | 665401.96 | 2197210.94 | 269+77.58 | |
| 77-9 | I.R. 77 | P.C.C. | 665698.46 | 2196540.02 | 276+44.84 | N66°09'27"W |
| | | | | | | |
| 77-10 | I.R. 77 | P.C.C. | 665698.462 | 2196540.02 | 276+44.84 | N66°09'27"W |
| 77-10 | I.R. 77 | P.I. | 665779.52 | 2196356.59 | 278+45.38 | |
| 77-10 | I.R. 77 | P.T. | 665830.88 | 2196162.74 | 280+45.09 | N75°09'47"W |
| | | | | | | |
| 77-11 | I.R. 77 | P.C. | 666284.23 | 2194451.337 | 298+15.53 | N75°09'47"W |
| 77-11 | I.R. 77 | P.I. | 666383.59 | 2194076.27 | 302+03.53 | |
| 77-11 | I.R. 77 | P.O.T. | 666619.95 | 2193768.58 | 305+81.36 | N52°28'10"W |
| | | | | | | |
| | RAMP A3 | P.O.T. | 646926.52 | 2201599.60 | 300+00.00 | N07°01'05"W |
| | | | | | | |
| A3-1 | RAMP A3 | P.C. | 647538.98 | 2201524.21 | 306+17.08 | N07°01'05"W |
| A3-1 | RAMP A3 | P.I. | 647788.73 | 2201493.46 | 308+68.71 | |
| A3-1 | RAMP A3 | P.T. | 648018.45 | 2201390.78 | 311+16.61 | N24°05'07"W |
| | | | | | | |
| | RAMP A3 | P.O.T. | 648030.47 | 2201385.4 | 311+29.78 | N24°05'07"W |
| | | | | | | |
| | RAMP A4 | P.O.T. | 646841.22 | 2201928.51 | 400+00.00 | N15°53'41"W |
| | | | | | | |
| A4-1 | RAMP A4 | P.C. | 647059.29 | 2201866.42 | 402+26.74 | N15°53'41"W |
| A4-1 | RAMP A4 | P.I. | 647154.6 | 2201839.28 | 403+25.84 | |
| A4-1 | RAMP A4 | P.T. | 647247.79 | 2201805.58 | 404+24.85 | N19°52'39"W |
| | | | | | | |
| A4-2 | RAMP A4 | P.C. | 647414.83 | 2201745.19 | 406+02.48 | N19°52'39"W |
| A4-2 | RAMP A4 | P.I. | 647424.56 | 2201741.67 | 406+12.83 | |
| A4-2 | RAMP A4 | C.S. | 647434.32 | 2201738.24 | 406+23.18 | N19°21'37"W |
| | | | | | | |
| A4-3 | RAMP A4 | C.S. | 647434.32 | 2201738.24 | 406+23.18 | N19°21'37"W |
| A4-3 | RAMP A4 | P.I. | 647497.23 | 2201716.13 | 406+89.85 | |
| A4-3 | RAMP A4 | S.T. | 647624.85 | 2201677.46 | 408+23.18 | N16°51'38"W |
| | | | | | | |
| | RAMP B1 | P.O.T. | 649252.56 | 2200730.03 | 100+00.00 | N37°13'29"W |
| | | | | | | |
| B1-1 | RAMP B1 | P.C. | 649298.30 | 2200695.28 | 100+57.44 | N37°13'29"W |
| B1-1 | RAMP B1 | P.I. | 649535.61 | 2200514.99 | 103+55.47 | |
| B1-1 | RAMP B1 | P.T. | 649818.22 | 2200420.34 | 106+48.20 | N18°31'02"W |
| | | | | | | |
| | RAMP B1 | P.T. | 649818.22 | 2200420.34 | 106+48.20 | N18°31'02"W |
| | | | | | | |

| CURVE | ALIGNMENT | CONTROL POINT | NORTHING | EASTING | STATION | BEARING |
|---|---|---|---|---|---|---|
| B2-1 | RAMP B2 | T.S. | 649481.62 | 2200401.09 | 200+00.00 | N33°44'01"W |
| B2-1 | RAMP B2 | P.I. | 649592.52 | 2200327.04 | 201+33.35 | |
| B2-1 | RAMP B2 | S.C. | 649646.30 | 2200287.62 | 202+00.00 | N36°14'01"W |
| | | | | | | |
| B2-2 | RAMP B2 | S.C. | 649646.30 | 2200287.62 | 202+00.00 | N36°14'01"W |
| B2-2 | RAMP B2 | P.I. | 649728.49 | 2200227.39 | 203+01.90 | |
| B2-2 | RAMP B2 | P.T. | 649805.02 | 2200160.1 | 204+03.67 | N41°19'29"W |
| | | | | | | |
| | RAMP B2 | P.O.T. | 649988.72 | 2199998.58 | 206+48.28 | N41°19'29"W |
| | | | | | | |
| | RAMP B3 | P.O.T. | 649987.03 | 2199996.43 | 300+00.00 | N28°42'32"W |
| | | | | | | |
| B3-1 | RAMP B3 | P.C. | 649992.45 | 2199993.47 | 300+06.18 | N28°42'32"W |
| B3-1 | RAMP B3 | P.I. | 650234.72 | 2199860.77 | 302+82.41 | |
| B3-1 | RAMP B3 | P.T. | 650508.99 | 2199827.86 | 305+51.92 | N06°50'34"W |
| | | | | | | |
| B3-2 | RAMP B3 | P.C. | 650676.40 | 2199807.77 | 307+20.53 | N06°50'34"W |
| B3-2 | RAMP B3 | P.I. | 650861.49 | 2199785.56 | 309+06.95 | |
| B3-2 | RAMP B3 | P.T. | 651043.32 | 2199744.45 | 310+93.05 | N12°44'27"W |
| | | | | | | |
| | RAMP B4 | P.O.T. | 650166.97 | 2200303.92 | 400+00.00 | N34°18'45"W |
| | | | | | | |
| B4-1 | RAMP B4 | P.C. | 650449.61 | 2200111.03 | 403+42.19 | N34°18'45"W |
| B4-1 | RAMP B4 | P.I. | 650592.17 | 2200013.74 | 405+14.78 | |
| B4-1 | RAMP B4 | C.S. | 650755.49 | 2199957.92 | 406+85.29 | N18°52'12"W |
| | | | | | | |
| B4-2 | RAMP B4 | C.S. | 650755.49 | 2199957.92 | 406+85.29 | N18°52'12"W |
| B4-2 | RAMP B4 | P.I. | 650818.61 | 2199936.34 | 407+51.99 | |
| B4-2 | RAMP B4 | S.T. | 650947.81 | 2199903.24 | 408+85.29 | N14°22'09"W |
| | | | | | | |
| | RAMP C1 | P.O.T. | 651575.73 | 2199775.91 | 100+00.00 | N06°14'18"W |
| | | | | | | |
| C1-1 | RAMP C1 | P.C. | 651575.81 | 2199775.9 | 100+00.08 | N06°14'18"W |
| C1-1 | RAMP C1 | P.I. | 651702.01 | 2199762.11 | 101+27.03 | |
| C1-1 | RAMP C1 | P.T. | 651828.9 | 2199766.07 | 102+53.56 | N01°47'20"E |
| | | | | | | |
| C1-2 | RAMP C1 | P.C. | 652471.98 | 2199786.15 | 108+96.96 | N01°47'20"E |
| C1-2 | RAMP C1 | P.I. | 652607.43 | 2199790.38 | 110+32.47 | |
| C1-2 | RAMP C1 | P.T. | 652739.99 | 2199818.51 | 111+67.27 | N11°58'49"E |
| | | | | | | |
| C1-3 | RAMP C1 | P.C. | 652783.36 | 2199827.71 | 112+11.61 | N11°58'49"E |
| C1-3 | RAMP C1 | P.I. | 652845.13 | 2199840.82 | 112+74.75 | |
| C1-3 | RAMP C1 | P.T. | 652908.03 | 2199846.39 | 113+37.74 | N05°03'27"E |
| | | | | | | |
| | RAMP C1 | P.O.T. | 652989.27 | 2199853.58 | 114+19.30 | N05°03'27"E |
| | | | | | | |
| | RAMP C2 | P.O.T. | 653411.64 | 2199522.36 | 200+00.00 | N09°16'41"E |
| | | | | | | |
| C2-1 | RAMP C2 | P.C. | 653895 | 2199601.33 | 204+89.76 | N09°16'41"E |
| C2-1 | RAMP C2 | P.I. | 654100.14 | 2199634.84 | 206+97.62 | |
| C2-1 | RAMP C2 | P.C.C. | 654307.94 | 2199639.64 | 209+04.81 | N01°19'22"E |
| | | | | | | |
| C2-2 | RAMP C2 | P.C.C. | 654307.94 | 2199639.64 | 209+04.81 | N01°19'22"E |
| C2-2 | RAMP C2 | P.I. | 654352.23 | 2199640.66 | 209+49.11 | |
| C2-2 | RAMP C2 | P.T. | 654396.52 | 2199640.97 | 209+93.40 | N00°24'05"E |
| | | | | | | |
| | RAMP C3 | P.O.T. | 652986.17 | 2199790.03 | 300+00.00 | N06°17'20"W |
| | | | | | | |
| C3-1 | RAMP C3 | P.C. | 653395.6 | 2199744.91 | 304+11.91 | N06°17'20"W |
| C3-1 | RAMP C3 | P.I. | 653436.23 | 2199740.43 | 304+52.78 | |
| C3-1 | RAMP C3 | C.S | 653477.08 | 2199738.86 | 304+93.62 | N02°12'12"W |
| | | | | | | |
| C3-2 | RAMP C3 | C.S. | 653477.08 | 2199738.86 | 304+93.62 | N02°12'12"W |
| C3-2 | RAMP C3 | P.I. | 653543.74 | 2199736.29 | 305+60.34 | |
| C3-2 | RAMP C3 | S.T. | 653676.97 | 2199742.8 | 306+93.62 | N02°47'47"E |
| | | | | | | |
| | RAMP D1 | P.O.T. | 657135.08 | 2199307.03 | 96+45.46 | N21°24'54"W |
| | | | | | | |
| D1-1 | RAMP D1 | P.C. | 657465.14 | 2199177.58 | 100+00.00 | N21°24'54"W |
| D1-1 | RAMP D1 | P.I. | 657747.20 | 2199066.96 | 103+02.97 | |
| D1-1 | RAMP D1 | P.T. | 658049.99 | 2199077.46 | 105+97.50 | N01°59'13"E |
| | | | | | | |
| | RAMP D1 | P.O.T. | 658470.19 | 2199062.58 | 107+00.02 | N01°59'13"E |
| | | | | | | |

| CURVE | ALIGNMENT | CONTROL POINT | NORTHING | EASTING | STATION | BEARING |
|---|---|---|---|---|---|---|
| | RAMP D2 | P.O.T. | 657587.47 | 2198990.30 | 200+00.00 | N19°08'23"W |
| | | | | | | |
| D2-1 | RAMP D2 | P.C. | 658144.85 | 2198796.86 | 205+90.00 | N19°08'23"W |
| D2-1 | RAMP D2 | P.I. | 658257.33 | 2198757.82 | 207+09.06 | |
| D2-1 | RAMP D2 | P.T. | 658375.85 | 2198746.59 | 208+26.97 | N05°24'51"W |
| | | | | | | |
| | RAMP D2 | P.O.T. | 658450.52 | 2198739.51 | 209+01.98 | N05°24'51"W |
| | | | | | | |
| | RAMP E1 | P.O.T. | 658477.75 | 2198953.79 | 100+00.00 | N05°33'00"W |
| | | | | | | |
| E1-1 | RAMP E1 | P.C. | 658646.57 | 2198937.39 | 101+69.61 | N05°33'00"W |
| E1-1 | RAMP E1 | P.I. | 659130.62 | 2198890.35 | 106+55.95 | |
| E1-1 | RAMP E1 | P.T. | 659604.63 | 2198999.15 | 111+33.84 | N12°55'37"E |
| | | | | | | |
| | RAMP E1 | P.O.T. | 659842.66 | 2199053.79 | 113+78.06 | N12°55'37"E |
| | | | | | | |
| | RAMP J1 | P.O.T. | 659600.26 | 2198842.71 | 100+00.00 | N05°33'00"W |
| | | | | | | |
| J1-1 | RAMP J1 | P.C. | 659987.07 | 2198805.12 | 103+88.63 | N05°33'00"W |
| J1-1 | RAMP J1 | P.I. | 660047.04 | 2198799.3 | 104+48.88 | |
| J1-1 | RAMP J1 | P.R.C. | 660106.87 | 2198792.22 | 105+09.13 | N06°44'35"W |
| | | | | | | |
| J1-2 | RAMP J1 | P.R.C. | 660106.87 | 2198792.22 | 105+09.13 | N06°44'35"W |
| J1-2 | RAMP J1 | P.I. | 660451.60 | 2198751.46 | 108+56.26 | |
| J1-2 | RAMP J1 | C.S. | 660798.01 | 2198729.13 | 112+03.22 | N03°41'20"W |
| | | | | | | |
| J1-3 | RAMP J1 | C.S. | 660798.01 | 2198729.13 | 112+03.22 | N03°41'20"W |
| J1-3 | RAMP J1 | P.I. | 660921.58 | 2198721.16 | 113+27.05 | |
| J1-3 | RAMP J1 | S.C. | 660987.34 | 2198727.96 | 113+92.80 | N05°54'11"E |
| | | | | | | |
| J1-3 | RAMP J1 | S.C. | 660987.67 | 2198727.95 | 113+92.80 | N05°54'11"E |
| J1-3 | RAMP J1 | P.I. | 661078.63 | 2198737.36 | 114+84.24 | |
| J1-3 | RAMP J1 | P.T. | 661162.51 | 2198773.78 | 115+74.26 | N23°28'11"E |
| | | | | | | |
| | RAMP J1 | P.O.T. | 661162.51 | 2198773.78 | 115+74.26 | N23°28'11"E |
| | | | | | | |
| | RAMP J5 | P.O.T. | 658714.53 | 2198830.21 | 200+00.00 | N06°41'54"W |
| | | | | | | |
| J5-1 | RAMP J5 | T.S. | 659956.24 | 2198684.38 | 212+50.25 | N06°41'54"W |
| J5-1 | RAMP J5 | P.I. | 660105.78 | 2198666.82 | 214+00.81 | |
| J5-1 | RAMP J5 | S.C. | 660180.25 | 2198655.83 | 214+76.08 | N08°23'31"W |
| | | | | | | |
| J5-2 | RAMP J5 | S.C. | 660180.25 | 2198655.83 | 214+76.08 | N08°23'31"W |
| J5-2 | RAMP J5 | P.I. | 660288.06 | 2198639.93 | 215+85.05 | |
| J5-2 | RAMP J5 | P.C.C. | 660394.78 | 2198617.91 | 216+93.97 | N11°39'37"W |
| | | | | | | |
| J5-3 | RAMP J5 | P.C.C. | 660394.78 | 2198617.91 | 216+93.97 | N11°39'37"W |
| J5-3 | RAMP J5 | P.I. | 660636.84 | 2198567.95 | 219+41.13 | |
| J5-3 | RAMP J5 | P.T. | 660848.16 | 2198439.77 | 221+83.46 | N31°14'25"W |
| | | | | | | |
| J5-3 | RAMP J5 | P.C. | 661161.89 | 2198249.47 | 225+50.39 | N31°14'25"W |
| J5-3 | RAMP J5 | P.I. | 661537.93 | 2198021.37 | 229+90.22 | |
| J5-3 | RAMP J5 | P.T. | 661609.01 | 2197587.32 | 233+74.72 | N80°42'00"W |
| | | | | | | |
| | RAMP J5 | P.T. | 661609.01 | 2197587.32 | 233+74.72 | N80°42'00"W |
| | | | | | | |

*NOTE: SEE PAGE 5 FOR THE PROJECT CONTROL POINTS*

Preliminary Plans - Not For Reference Only

# HORIZONTAL CONTROL POINTS

CUY-77-11.43 - PART 1

MODEL: Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:34 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB010.dgn

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.14 TOTAL P.1135

| CURVE | ALIGNMENT | CONTROL POINT | NORTHING | EASTING | STATION | BEARING |
|---|---|---|---|---|---|---|
| | MUP | P.O.T. | 653819.48 | 2199558.72 | 5+25.95 | N02°04'47"W |
| | | | | | | |
| MUP-1A | MUP | P.C. | 653829.47 | 2199558.36 | 5+35.95 | N02°04'47"W |
| MUP-1A | MUP | P.I. | 653839.17 | 2199558.01 | 5+45.65 | |
| MUP-1A | MUP | P.T. | 653848.48 | 2199560.73 | 5+55.18 | N16°17'10"E |
| | | | | | | |
| MUP-1B | MUP | P.C. | 653869.70 | 2199566.93 | 5+77.29 | N16°17'10"E |
| MUP-1B | MUP | P.I. | 653884.40 | 2199571.22 | 5+92.60 | |
| MUP-1B | MUP | P.C.C | 653899.50 | 2199573.69 | 6+07.87 | N09°16'41"E |
| | | | | | | |
| MUP-1C | MUP | P.C.C | 653899.50 | 2199573.69 | 6+07.87 | N09°16'41"E |
| MUP-1C | MUP | P.I. | 654112.80 | 2199608.54 | 8+24.00 | |
| MUP-1C | MUP | P.R.C. | 654328.89 | 2199612.04 | 10+39.35 | N00°55'48"E |
| | | | | | | |
| MUP-1D | MUP | P.R.C. | 654328.89 | 2199612.04 | 10+39.35 | N00°55'48"E |
| MUP-1D | MUP | P.I. | 654339.22 | 2199612.21 | 10+49.68 | |
| MUP-1D | MUP | P.T. | 654349.50 | 2199613.23 | 10+60.00 | N05°39'41"E |
| | | | | | | |
| MUP-2 | MUP | P.C. | 654496.62 | 2199627.81 | 12+07.84 | N00°38'30"W |
| MUP-2 | MUP | P.I. | 654904.16 | 2199623.25 | 16+15.40 | |
| MUP-2 | MUP | P.T. | 655306.56 | 2199558.61 | 20+21.48 | N09°07'33"W |
| | | | | | | |
| MUP-3 | MUP | P.C. | 656180.87 | 2199418.17 | 29+06.99 | N09°07'33"W |
| MUP-3 | MUP | P.I. | 656215.95 | 2199412.53 | 29+42.52 | |
| MUP-3 | MUP | P.T. | 656241.73 | 2199388.09 | 29+75.91 | N43°27'37"W |
| | | | | | | |
| | MUP | P.I. | 656329.28 | 2199305.13 | 30+96.51 | N43°27'37"W |
| | | | | | | |
| | MUP | P.I. | 656365.00 | 2199324.58 | 31+37.19 | N28°33'23"E |
| | | | | | | |
| MUP-4 | MUP | P.C. | 656370.46 | 2199323.59 | 31+42.74 | N10°17'17"W |
| MUP-4 | MUP | P.I. | 656723.61 | 2199259.48 | 35+01.65 | |
| MUP-4 | MUP | P.T. | 657057.74 | 2199128.44 | 38+58.31 | N21°24'54"W |
| | | | | | | |
| MUP-5 | MUP | P.C. | 657455.24 | 2198972.54 | 42+85.29 | N21°24'54"W |
| MUP-5 | MUP | P.I. | 657510.70 | 2198950.79 | 43+44.86 | |
| MUP-5 | MUP | P.T. | 657566.97 | 2198931.26 | 44+04.41 | N19°08'23"W |
| | | | | | | |
| MUP-6 | MUP | P.C. | 657782.71 | 2198856.39 | 46+32.77 | N19°08'23"W |
| MUP-6 | MUP | P.I. | 658070.60 | 2198756.47 | 49+37.51 | |
| MUP-6 | MUP | P.T. | 658373.32 | 2198721.38 | 52+39.82 | N06°36'45"W |
| | | | | | | |
| | MUP | P.O.T. | 658448.89 | 2198712.62 | 53+15.89 | N06°36'45"W |
| | | | | | | |
| | MUP EAST | P.O.T. | 655812.1 | 2199477.4 | 20+00.00 | S70°26'13"E |
| | | | | | | |
| MUPE-1 | MUP EAST | P.C. | 655743.41 | 2199670.69 | 22+05.13 | S70°26'13"E |
| MUPE-1 | MUP EAST | P.I. | 655734.41 | 2199696.02 | 22+32.01 | |
| MUPE-1 | MUP EAST | P.T. | 655715.11 | 2199714.73 | 22+57.94 | S44°07'28"E |
| | | | | | | |
| MUPE-2 | MUP EAST | P.C. | 655666.09 | 2199762.28 | 23+26.24 | S44°07'28"E |
| MUPE-2 | MUP EAST | P.I. | 655643.27 | 2199784.42 | 23+58.03 | |
| MUPE-2 | MUP EAST | P.T. | 655635.05 | 2199815.13 | 23+88.27 | S75°01'48"E |
| | | | | | | |
| MUPE-3 | MUP EAST | P.C. | 655598.08 | 2199953.42 | 25+31.43 | S75°01'48"E |
| MUPE-3 | MUP EAST | P.I. | 655589.38 | 2199985.94 | 25+65.08 | |
| MUPE-3 | MUP EAST | P.T. | 655599.59 | 2200018.02 | 25+96.92 | N72°20'28"E |
| | | | | | | |
| MUPE-4 | MUP EAST | P.C. | 655605.78 | 2200037.44 | 26+17.30 | N72°20'28"E |
| MUPE-4 | MUP EAST | P.I. | 655617.89 | 2200075.51 | 26+57.25 | |
| MUPE-4 | MUP EAST | P.R.C. | 655617.55 | 2200115.45 | 26+96.53 | S89°30'10"E |
| | | | | | | |
| MUPE-5 | MUP EAST | P.R.C. | 655617.55 | 2200115.45 | 26+96.53 | S89°30'10"E |
| MUPE-5 | MUP EAST | P.I. | 655617.31 | 2200143.18 | 27+24.26 | |
| MUPE-5 | MUP EAST | P.T. | 655618.13 | 2200170.91 | 27+51.99 | N88°17'23"E |
| | | | | | | |
| | MUP EAST | P.O.T. | 655625.25 | 2200453.48 | 30+34.65 | N88°43'17"E |
| | | | | | | |

*NOTE: SEE PAGE 5 FOR THE PROJECT CONTROL POINTS*

Preliminary Plans - For Reference Only



MODEL: Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:35 PM USER: kperkins
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HORIZONTAL CONTROL POINTS

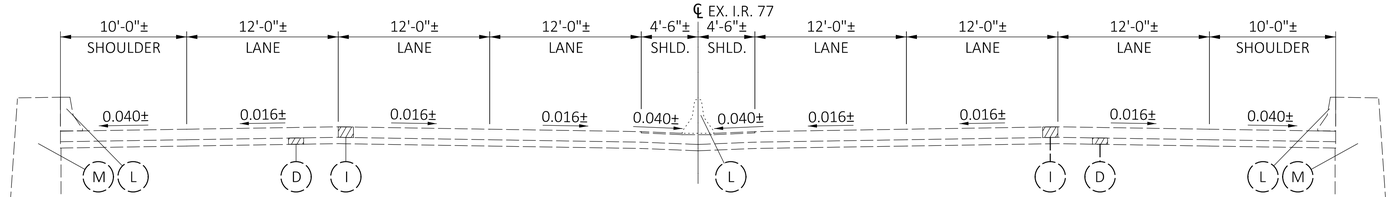
DESIGN AGENCY
HNTB

DESIGNER
KMM

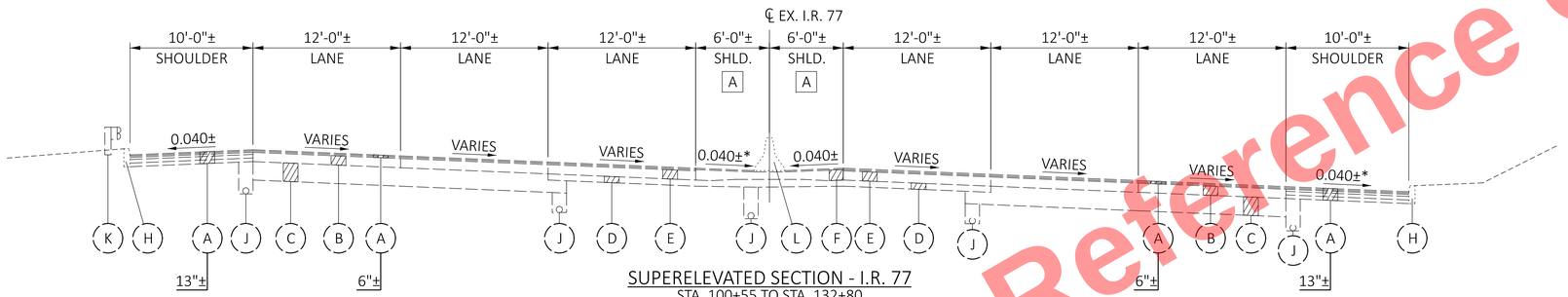
REVIEWER
KKP 07/18/25

PROJECT ID
105743

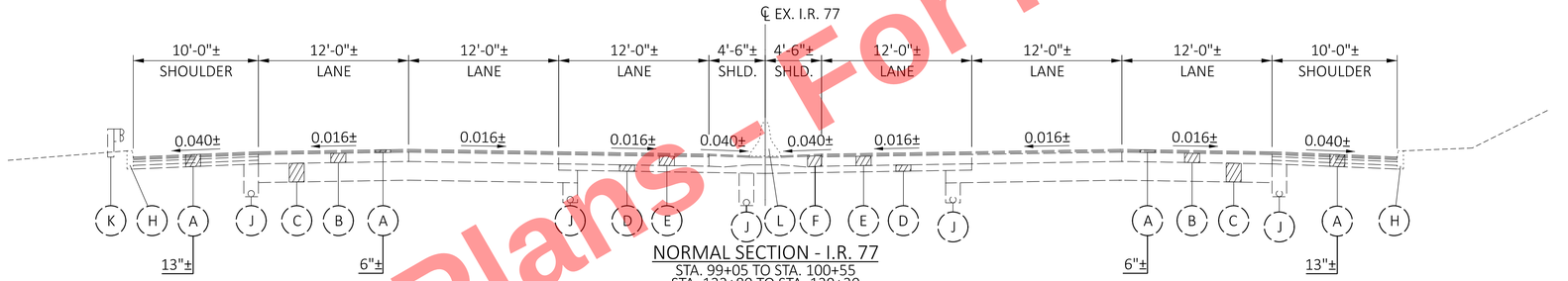
SHEET P.15 TOTAL P.1135



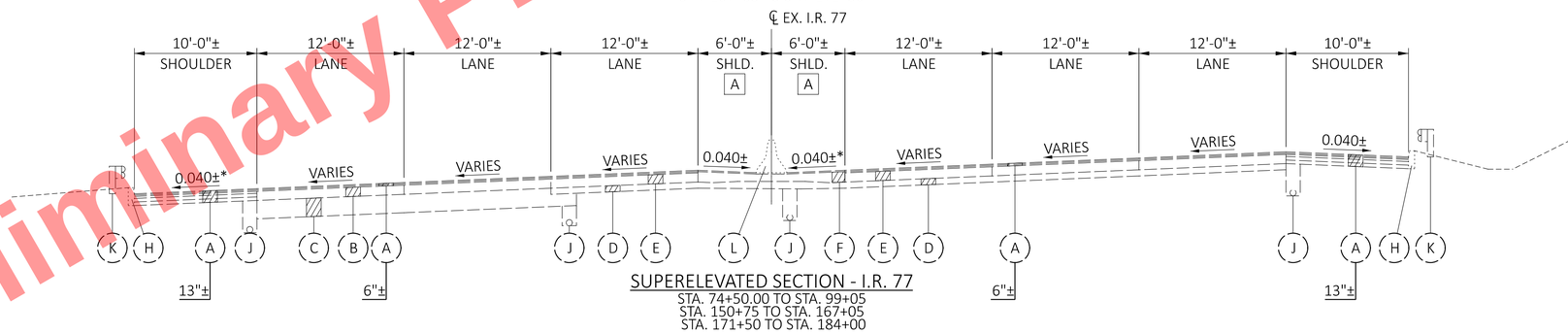

APPROACH SLAB SECTION - I.R. 77 (STRUCTURE NO. CUY-77-1322)
OVER MORGANA RUN TRAIL
STA. 169+81.89 TO STA. 170+86.36




SUPERELEVATED SECTION - I.R. 77
STA. 100+55 TO STA. 132+80
STA. 139+30 TO STA. 150+75
STA. 184+00 TO STA. 200+00




NORMAL SECTION - I.R. 77
STA. 99+05 TO STA. 100+55
STA. 132+80 TO STA. 139+30
STA. 167+05 TO STA. 171+50




SUPERELEVATED SECTION - I.R. 77
STA. 74+50.00 TO STA. 99+05
STA. 150+75 TO STA. 167+05
STA. 171+50 TO STA. 184+00

Preliminary Plans - For Reference Only

## EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

[A] 4'-6" PRIOR TO STA. 174+50
VARIES FROM 4'-6" AT STA. 174+50 TO 6'-0" AT STA. 182+90
6'-0" AFTER STA. 182+90

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER

EXISTING TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | KKP 04/11/22 |
| PROJECT ID | 105743 |
| SHEET | P.16 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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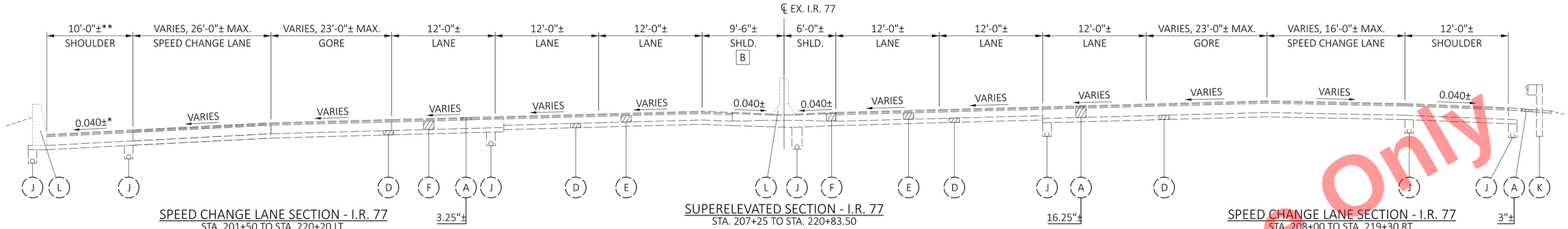
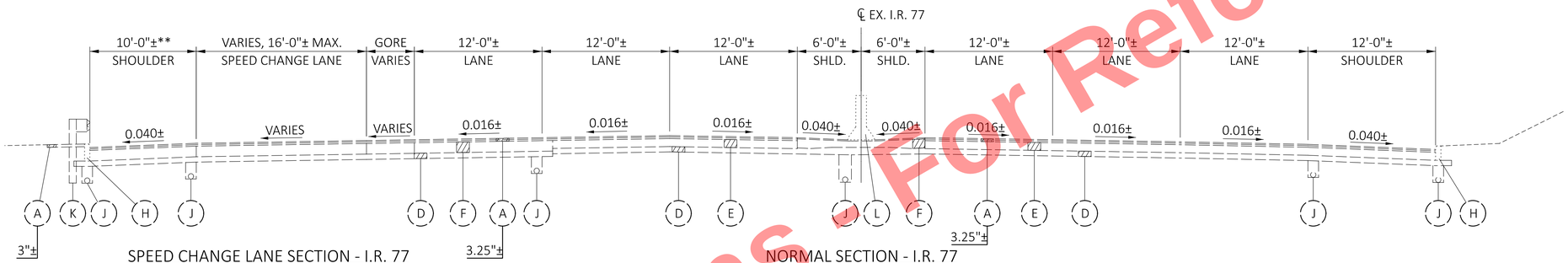



SPEED CHANGE LANE SECTION - I.R. 77
STA. 201+50 TO STA. 220+20 LT.

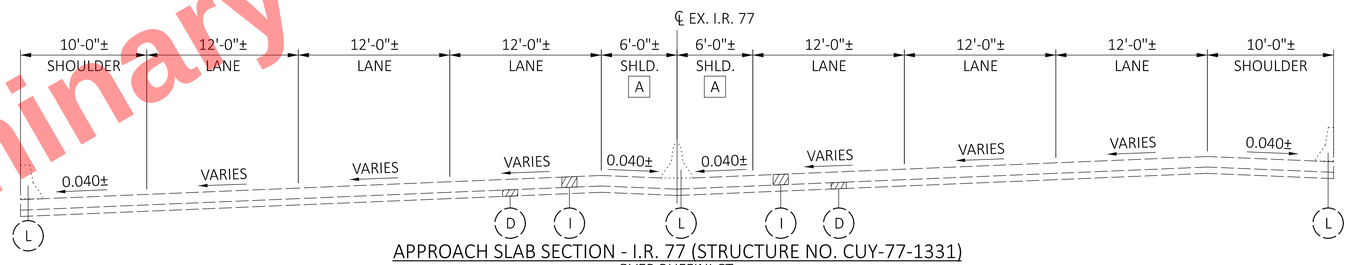
SUPERELEVATED SECTION - I.R. 77
STA. 207+25 TO STA. 220+83.50

SPEED CHANGE LANE SECTION - I.R. 77
STA. 208+00 TO STA. 219+30 RT.




SPEED CHANGE LANE SECTION - I.R. 77
STA. 201+50 TO STA. 220+20 LT.

NORMAL SECTION - I.R. 77
STA. 200+00 TO STA. 207+25




APPROACH SLAB SECTION - I.R. 77 (STRUCTURE NO. CUY-77-1331)
OVER RUFFINI CT.
STA. 171+91.90 TO STA. 176+29.50

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

- [A] 4'-6" PRIOR TO STA. 174+50
  VARIES FROM 4'-6" AT STA. 174+50 TO 6'-0" AT STA. 182+90
  6'-0" AFTER STA. 182+90
- [B] VARIES FROM 6'-0" AT STA. 210+75 TO 9'-6" AT STA. 213+15
- * 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
- ** SHOULDER IS 12'-0' IN 3 LANE SECTION

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY
HNTB

DESIGNER KKP
REVIEWER MTR 03/14/22
PROJECT ID 105743
SHEET P.17 TOTAL P.1135

CUY-77-11.43 - PART 1

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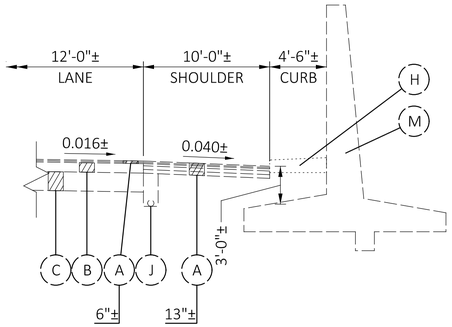
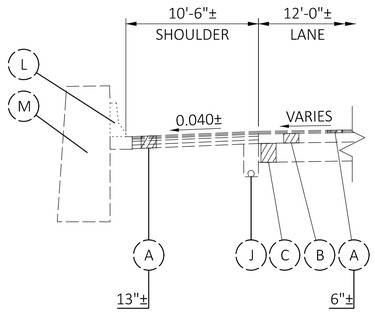
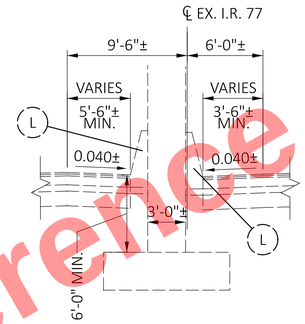


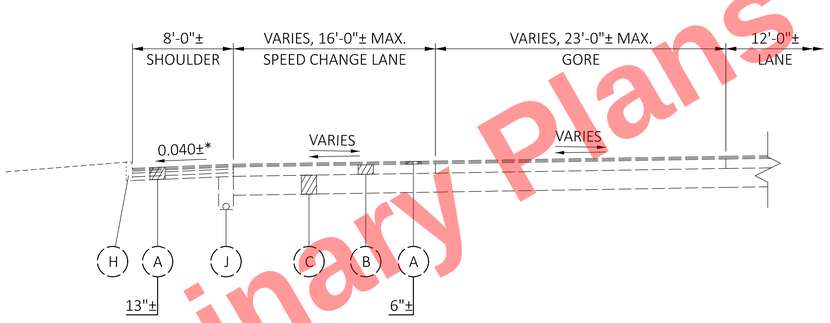

I.R. 77 SHOULDER AT RETAINING WALL
STA. 100+25 TO STA. 101+80 RT.




I.R. 77 SHOULDER AT RETAINING WALL
STA. 157+40 TO STA. 170+20 LT.

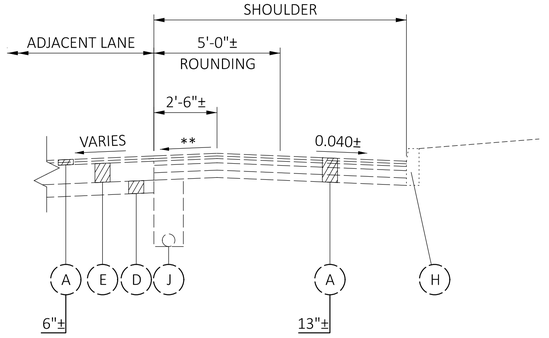



MEDIAN PIER/BARRIER DETAIL
STA. 214+76 TO STA. 217+91




SPEED CHANGE LANE SECTIONS - I.R. 77

STA. 84+30 TO STA. 88+30 LT.
STA. 97+50 TO STA. 108+20 LT.
STA. 120+60 TO STA. 129+00 LT.
STA. 150+75 TO STA. 157+00 LT.
STA. 178+70 TO STA. 192+40 LT.
STA. 81+40 TO STA. 88+00 RT.
STA. 101+70 TO STA. 107+30 RT.
STA. 118+00 TO STA. 133+30 RT.
STA. 147+25 TO STA. 159+00 RT.
STA. 183+00 TO STA. 191+00 RT.
STA. 196+70 TO STA. 205+20 RT.




HIGH SIDE SHOULDER DETAIL
ROUNDING FOR SHOULDER BREAK EXCEEDING 7%

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
** SLOPE OF ADJACENT LANE SUPERELEVATION

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
DETAILS

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.18 TOTAL P.1135

CUY-77-11.43 - PART 1

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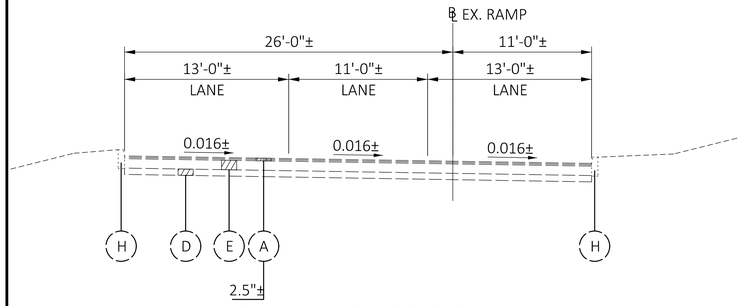
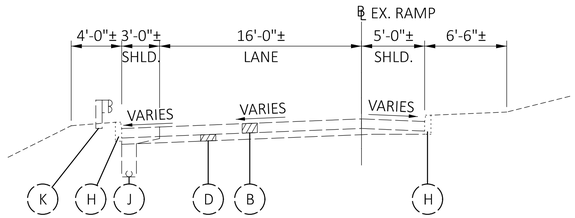
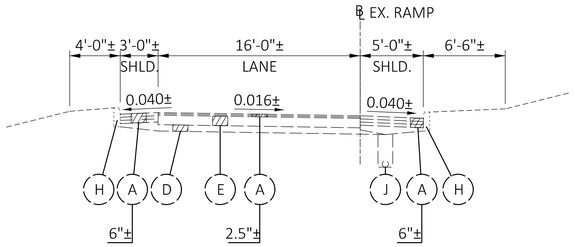


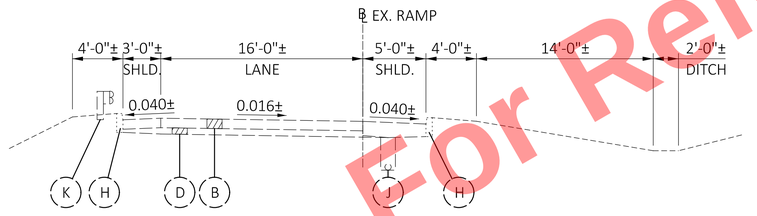

NORMAL EXIT RAMP SECTION
STA. 106+00.00 TO STA. 109+15.89 RAMP B1
STA. 301+70.17 TO STA. 305+50.00 RAMP B3



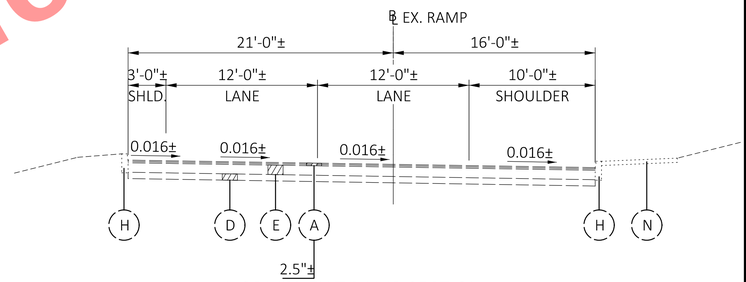

SUPERELEVATED CONCRETE RAMP SECTION
STA. 103+25.00 TO STA. 106+49.57 RAMP D1
STA. 204+50.00 TO STA. 205+90.00 RAMP D2



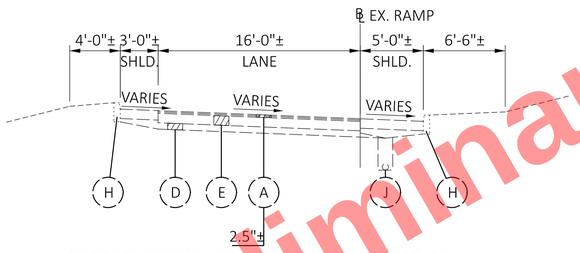

NORMAL COMPOSITE RAMP SECTION
STA. 300+29.34 TO STA. 306+50.00 RAMP A3
STA. 400+30.58 TO STA. 404+25.00 RAMP A4
STA. 105+50.00 TO STA. 106+00.00 RAMP B1
STA. 105+00.00 TO STA. 108+00.00 RAMP C1
STA. 109+00.00 TO STA. 110+50.00 RAMP E1



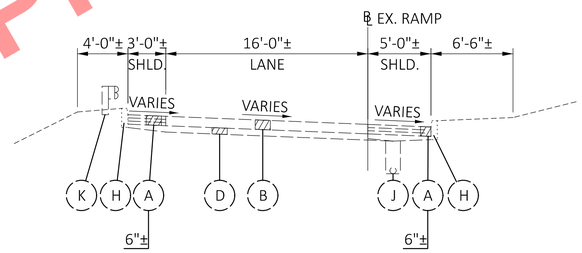

NORMAL CONCRETE RAMP SECTION
STA. 203+50.00 TO STA. 204+73.29 RAMP B2
STA. 401+75.00 TO STA. 403+50.00 RAMP B4
STA. 300+46.76 TO STA. 303+25.00 RAMP C3



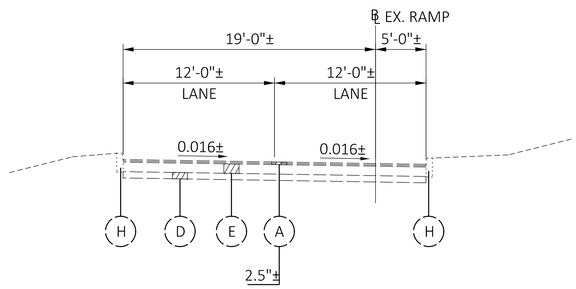

NORMAL EXIT RAMP SECTION
STA. 110+50.00 TO STA. 113+47.06 RAMP E1




SUPERELEVATED COMPOSITE RAMP SECTION
STA. 306+50.00 TO STA. 307+75.00 RAMP A3
STA. 404+25.00 TO STA. 406+10.00 RAMP A4
STA. 105+00.00 TO STA. 105+50.00 RAMP B1
STA. 108+00.00 TO STA. 111+00.00 RAMP C1
STA. 204+00.00 TO STA. 205+00.00 RAMP C2
STA. 107+00.00 TO STA. 109+00.00 RAMP E1




SUPERELEVATED CONCRETE RAMP SECTION
STA. 202+10.00 TO STA. 203+50.00 RAMP B2
STA. 305+50.00 TO STA. 308+50.00 RAMP B3
STA. 403+50.00 TO STA. 405+30.00 RAMP B4
STA. 303+25.00 TO STA. 305+00.00 RAMP C3
STA. 203+10.00 TO STA. 204+50.00 RAMP D2




NORMAL EXIT RAMP SECTION
STA. 111+00.00 TO STA. 112+00.02 RAMP C1
STA. 201+50.00 TO STA. 204+00.00 RAMP C2

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL
- (N) CONCRETE WALK

NOTE:

SECTIONS ARE SHOWN LOOKING IN THE DIRECTION OF TRAVEL.
STATION RANGES GIVEN FROM PROPOSED BASELINE ALIGNMENTS.

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
INTERCHANGE RAMPS

CUY-77-11.43 - PART 1

MODEL: EXIST. TYPICAL-4 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:43 PM USER: kperkins
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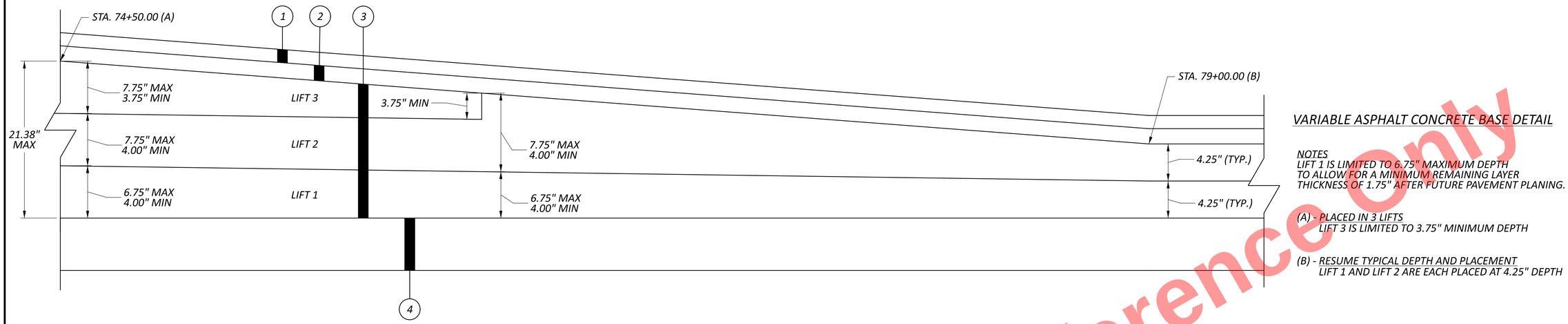
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.19 TOTAL P.1135

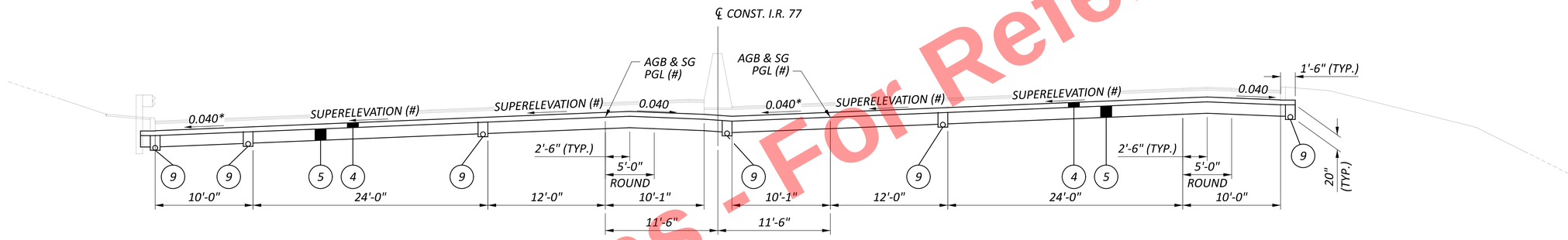



## VARIABLE ASPHALT CONCRETE BASE DETAIL

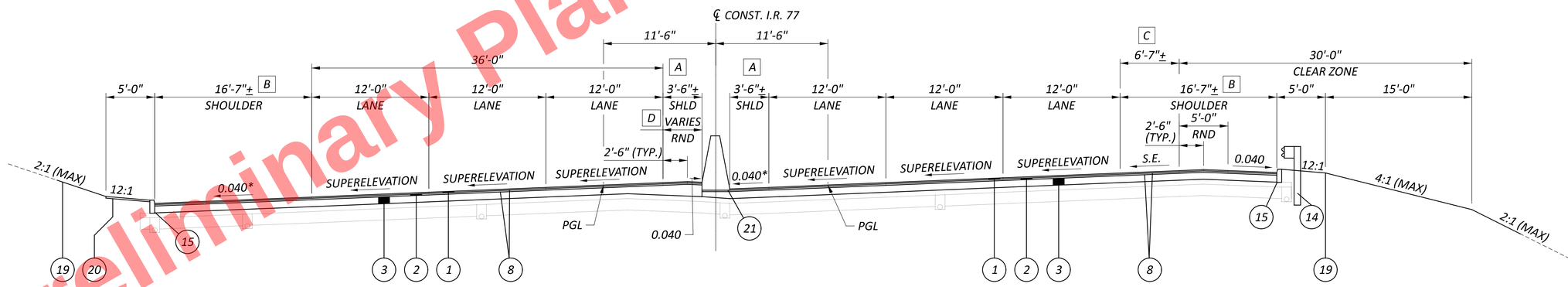
NOTES
LIFT 1 IS LIMITED TO 6.75" MAXIMUM DEPTH TO ALLOW FOR A MINIMUM REMAINING LAYER THICKNESS OF 1.75" AFTER FUTURE PAVEMENT PLANING.

(A) - PLACED IN 3 LIFTS
LIFT 3 IS LIMITED TO 3.75" MINIMUM DEPTH

(B) - RESUME TYPICAL DEPTH AND PLACEMENT
LIFT 1 AND LIFT 2 ARE EACH PLACED AT 4.25" DEPTH




STA. 74+50.00 TO STA. 79+00.00 = 450 FT.




## TYPICAL GRADING IN CUT WITH CURB AND GUARDRAIL

## SUPERELEVATION SECTION - I.R. 77

STA. 74+50.00 TO STA. 79+00.00 = 450 FT. (0.041 SUPERELEVATION)

## TYPICAL CLEAR ZONE GRADING IN FILL WITH CURB

## PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.75" MIN TO 21.34" MAX VARIABLE ASPHALT CONCRETE BASE (PLACE IN MULTIPLE LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM NOT USED
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C, AS PER PLAN
16. ITEM 252 - FULL DEPTH PAVEMENT SAWING
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C, A.P.P.

A VARIES FROM 3'-6"± AT STA. 74+50.00 TO 10'-1" AT STA. 79+00.00

B VARIES FROM 16'-7"± AT STA. 74+50.00 TO 10'0" AT STA. 79+00.00

C VARIES FROM 6'-7"± AT STA. 74+50.00 TO 0'-0" AT STA. 79+00.00

D 5'-0" MAX ROUNDING

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER

(#) SLOPE AND DIMENSION DETAILS REPRESENT AGGREGATE BASE AND SUBGRADE INFORMATION ONLY. SEE SHEET XXX FOR SUPERELEVATION AND TRANSITION DETAILS.

NOTES:
SEE SHEET 374-382 FOR SUPERELEVATION AND TRANSITION DETAILS.
PGL - PROFILE GRADE LINE
S.E. - SUPERELEVATION
A.P.P. - AS PER PLAN
AGB - AGGREGATE BASE
SG - SUBGRADE

4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

Preliminary Plans - For Reference Only



DESIGN AGENCY
HNTB
DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.20 TOTAL P.1135

CUY-77-11.43 - PART 1
MODEL: PROP. BEGIN PROJECT [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:44 PM USER: kperkins
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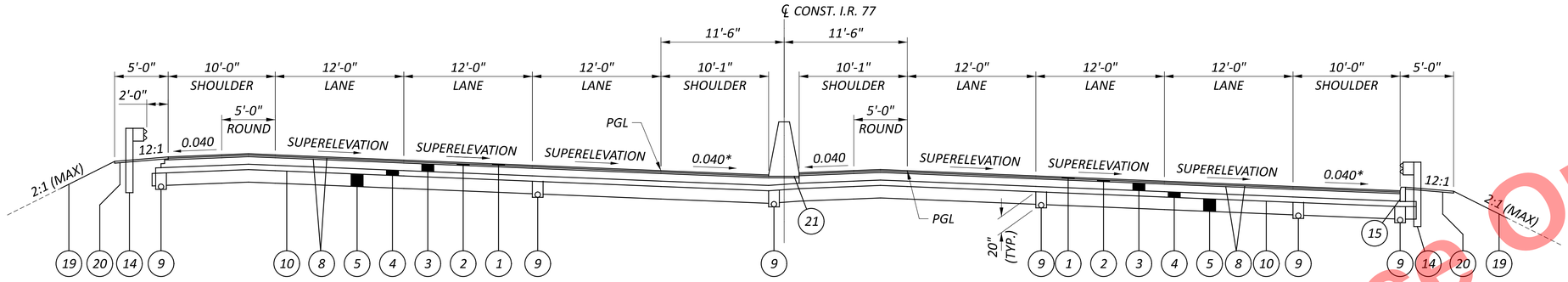
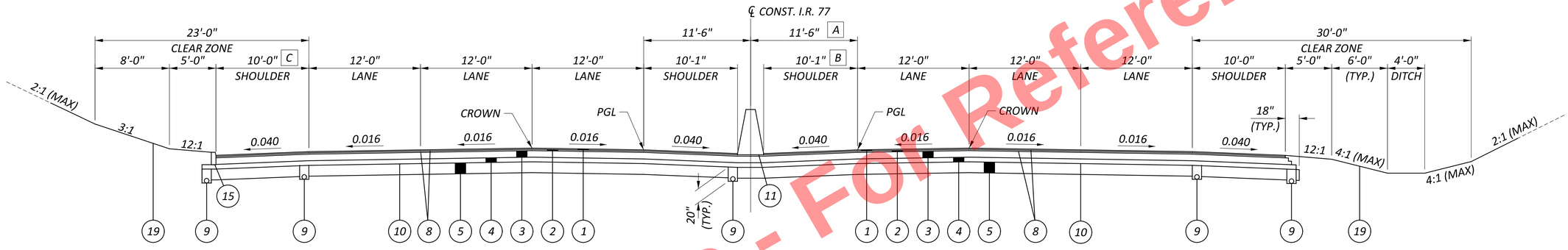



TYPICAL GRADING IN FILL WITH GUARDRAIL

TYPICAL GRADING IN FILL WITH CURB AND GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

STA. 100+75.00 TO STA. 133+85.00 = 3310.00 FT. (0.036 SUPERELEVATION)
STA. 139+05.00 TO STA. 149+20.00 = 1015.00 FT. (0.024 SUPERELEVATION) **
STA. 188+19.29 TO STA. 199+38.00 = 1118.71 FT. (0.050 SUPERELEVATION)

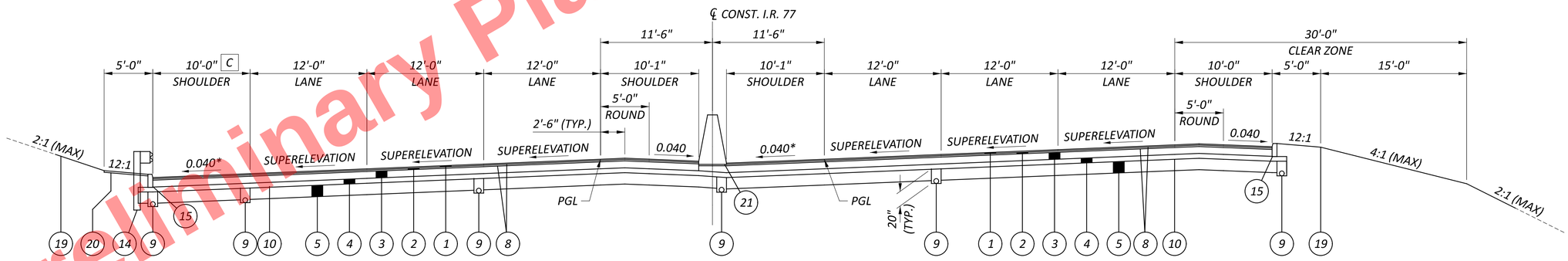



TYPICAL CLEAR ZONE GRADING IN CUT WITH CURB

NORMAL SECTION - I.R. 77

STA. 99+90.00 TO STA. 100+75.00 = 85.00 FT.
STA. 133+85.00 TO STA. 139+05.00 = 520.00 FT.
STA. 149+20.00 TO STA. 151+80.00 = 260.00 FT.
STA. 167+80.00 TO STA. 172+95.00 = 515.00 FT.
STA. 199+38.00 TO STA. 204+03.00 LT/208+08.00 RT= 870.00 FT.

TYPICAL CLEAR ZONE GRADING IN CUT




TYPICAL GRADING IN CUT WITH CURB AND GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

STA. 79+00.00 TO STA. 99+90.00 = 2540 FT. (0.041 SUPERVELEVATION)
STA. 151+80.00 TO STA. 167+80.00 = 1600.00 FT. (0.031 SUPERELEVATION)
STA. 172+95.00 TO STA. 188+19.29 = 1524.29 FT. (0.041 SUPERELEVATION)

TYPICAL CLEAR ZONE GRADING IN FILL WITH CURB

## PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5 " ASPHALT CONCRETE BASE (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. ITEM 252 - FULL DEPTH PAVEMENT SAWING
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1

A. VARIES FROM 11'-6" AT STA. 204+50.00 TO 9'-6" AT STA. 206+00.00

B. VARIES FROM 10'-1" AT STA. 204+50.00 TO 8'-1" AT STA. 206+00.00

C. VARIES FROM 10'-0" AT STA. 165+60.07 TO 14'-2" AT STA. 168+30.90
14'2" FROM STA. 168+30.90 TO STA. 170+98.01
13'9" FROM STA. 170+98.01 TO STA. 175+73.03

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER

** HIGH SIDE SHOULDER ROUNDING NOT REQUIRED. FULL SHOULDER WIDTH IS 0.040.

NOTES:
SEE SHEET 374-382 FOR SUPERELEVATION AND TRANSITION DETAILS.
PGL - PROFILE GRADE LINE
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

Preliminary Plans - For Reference Only

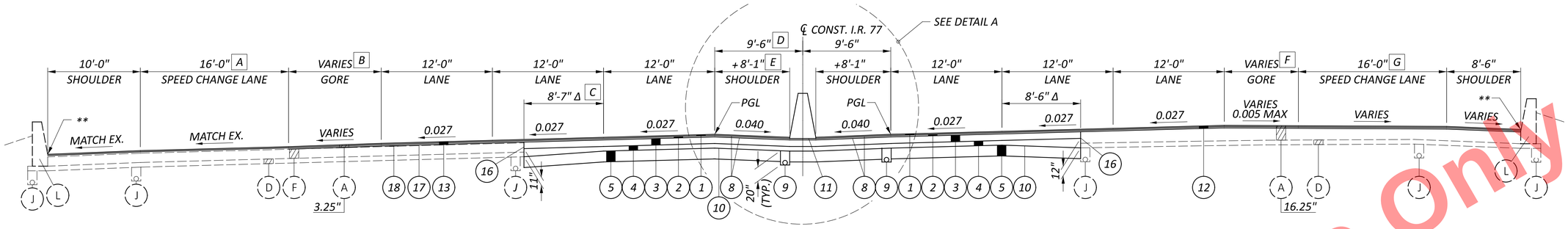
CUY-77-11.43 - PART 1

MODEL: PROP. TYPICAL-1 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:45 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn

PROPOSED TYPICAL SECTIONS
I.R. 77

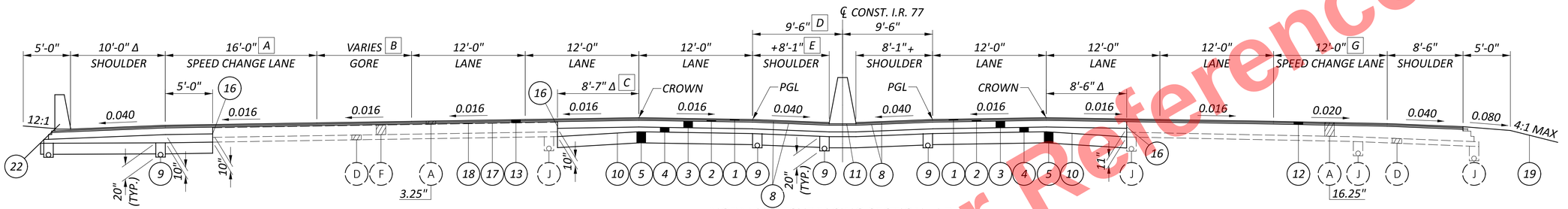
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.21 TOTAL P.1135



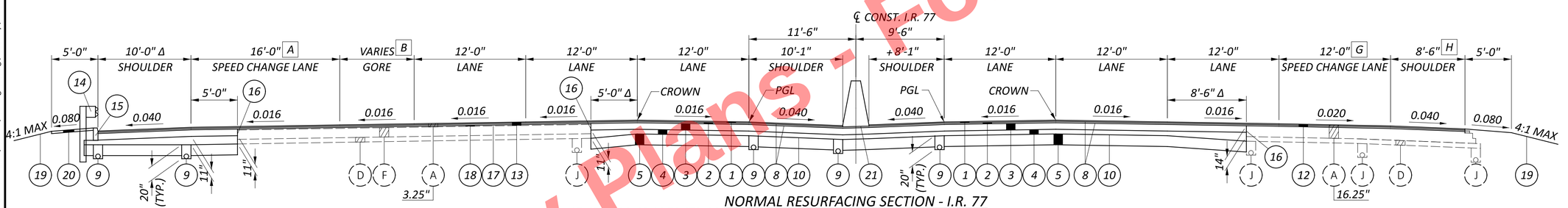

## SUPERELEVATION RESURFACING SECTION - I.R. 77

STA. 211+38.00 TO STA. 220+83.50 = 945.50 FT.



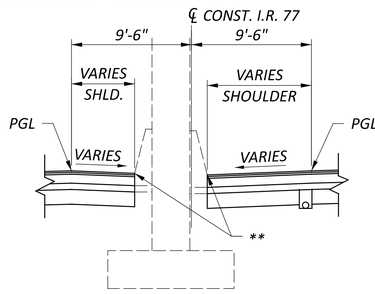

## NORMAL RESURFACING SECTION - I.R. 77

STA. 209+56.00 TO STA. 211+38.00 = 182.00 FT.



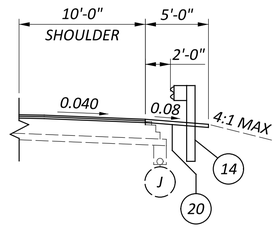

## NORMAL RESURFACING SECTION - I.R. 77

LT: STA. 204+03.00 TO STA. 209+56.00 = 553.00 FT. RT: STA. 208+08.00 TO STA. 209+56.00 = 148.00 FT.




## DETAIL A

STA. 214+76.00 TO STA. 217+91.00




STA. 211+24.64 RT. TO STA. 214+28.00 RT.

- A — VARIES FROM 5'-1" AT STA. 204+03.00 TO 16'-0" AT STA. 209+50.00; 16'-0" FROM STA. 209+50.00 TO STA. 215+03.81; VARIES FROM 16-0" AT STA. 215+03.81 TO 25'-11" AT STA. 219+93.40; 0'-0" FROM 219+93.40 TO END PROJECT
- B — 0'-0" FROM STA. 208+08.00 TO STA. 209+50.00; VARIES FROM 0-0" AT STA. 209+50.00 TO 23'-2" AT STA. 219+93.40; 0'-0" FROM 219+93.40 TO END PROJECT
- C — 5'-0" FROM STA. 209+56.00 STA. 210+75.00; VARIES FROM 5'-0" AT STA. 210+75.00 TO 8'-7" AT STA. 212+05.00; 8'-7" FROM STA. 212+05.00 TO END PROJECT
- D — 11'-6" FROM STA. 209+56.00 STA. 210+75.00; VARIES FROM 11'-6" AT STA. 210+75.00 TO 9'-6" AT STA. 212+05.00; 9'-6" FROM STA. 212+05.00 TO END PROJECT
- E — 10'-1" FROM STA. 209+56.00 STA. 210+75.00; VARIES FROM 10'-1" AT STA. 210+75.00 TO 8'-1" AT STA. 212+05.00; 8'-1" FROM STA. 212+05.00 TO END PROJECT
- F — 0'-0" FROM STA. 211+38.00 TO STA. 215+90.56; VARIES FROM 0-0" AT STA. 216+25.47 TO 19'-11" AT STA. 219+08.18; 0'-0" FROM 219+08.18 TO END PROJECT
- G — 0'-0" FROM STATION 208+08.00 TO STA. 208+40.00; VARIES FROM 0'-0" AT STA. 208+40.00 TO 12'-0" AT STA. 209+40.00; 12'-0" FROM STA. 209+40.00 TO 214+47.93; VARIES FROM 12'-0" AT STA. 214+47.93 TO 16'-0" AT STA. 216+25.47; 0'-0" FROM 219+08.18 TO END PROJECT
- H — VARIES FROM 10'-0" AT STATION 208+08.00 TO 8'-0" AT STA. 208+40.00; 8'-0" FROM STA. 208+40.00 TO 209+56.00

\+ NORMAL DESIGN CRITERIA 10'-0"
Δ LIMITS OF VARIABLE DEPTH AGGREGATE BASE
\# SEE SHEET 383-384 FOR PLANING AND VARIABLE INTERMEDIATE DEPTH DETAILS
** MATCH EXISTING PAVEMENT ELEVATIONS ALONG BARRIER TO REMAIN
PGL - PROFILE GRADE LINE
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

### EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (D) SUBBASE (T=6"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=13" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

### PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5 " ASPHALT CONCRETE BASE (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. ITEM 252 - FULL DEPTH PAVEMENT SAWING
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D

Preliminary Plans - Not For Construction
For Reference Only

# PROPOSED TYPICAL SECTIONS
I.R. 77

CUY-77-11.43 - PART 1

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: KKP 04/11/22
PROJECT ID: 105743
SHEET: P.22 TOTAL: P.1135

MODEL: PROP_TYPICAL-2 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:45 PM USER: kperkins
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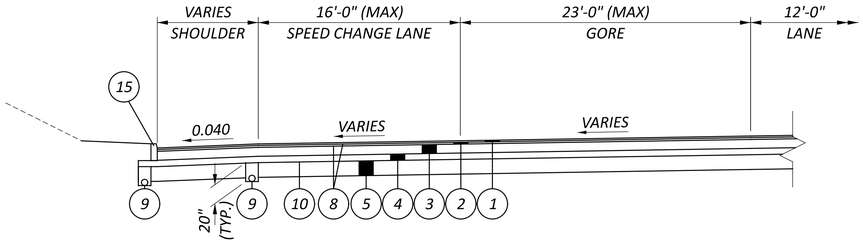
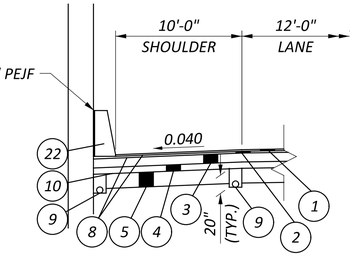
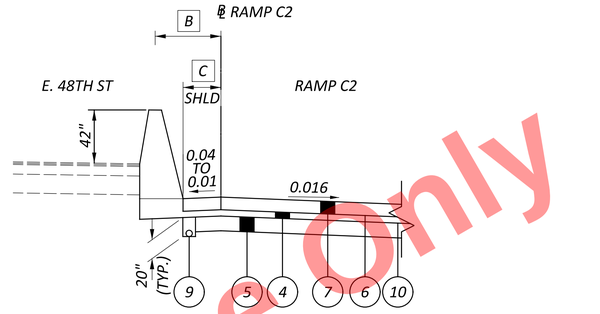



## SPEED CHANGE LANE DETAILS

| | LEFT | RIGHT |
|---|---|---|
| (RAMP A3) | STA. 84+01.07 TO STA. 89+37.30 = 536.23 FT. | STA. 81+05.60 TO STA. 96+05.66 = 1500.06 FT. (RAMP A4) |
| (RAMP B2) | STA. 93+55.21 TO STA. 108+64.93 = 1509.72 FT. | STA. 101+85.51 TO STA. 106+69.66 = 484.15 FT. (RAMP B1) |
| (RAMP B3) | STA. 119+57.69 TO STA. 127+07.99 = 749.02 FT. | STA. 117+83.77 TO STA. 132+90.96 = 1507.19 FT. (RAMP B4 AND C1) |
| (RAMP C2) | STA. 150+65.93 TO STA. 157+34.38 = 668.45 FT. | STA. 146+42.86 TO STA. 161+68.10 = 1525.24 (RAMP C3) |
| (RAMP D2) | STA. 176+83.05 TO STA. 192+12.96 = 1529.91 FT. | STA. 182+99.10 TO STA. 191+07.29 = 808.19 (RAMP D1) |
| | | STA. 197+12.01 TO STA. 203+83.61 = 671.60 (RAMP E1) |




## TYPICAL SHOULDER NEAR RETAINING WALL IN CUT

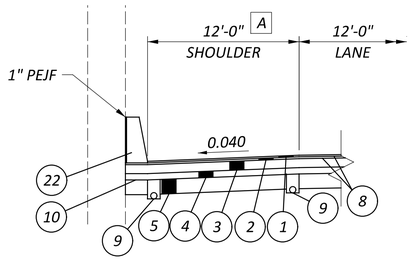



## BARRIER DETAIL AGAINST E. 48TH ST.

STA. 201+32.38 TO STA. 204+23.10 = 290.72 FT. RAMP C2

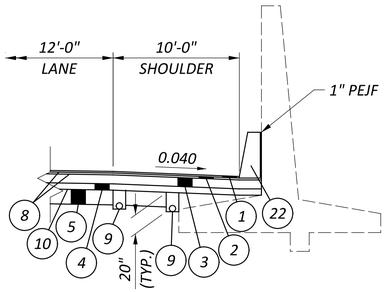
B 32'-6" FROM STA. 204+23.10 TO 6'2" AT STA. 202+81.00
VARIES FROM 6'-2" AT STA. 202+81.00 TO 5'-9" AT STA. 201+83.00
5'-9" FROM STA. 201+83.00 TO 18'9" AT STA. 201+32.00

C VARIES FROM 4'0" AT STA. 203+00.00 TO 0'6" AT STA. 202+40



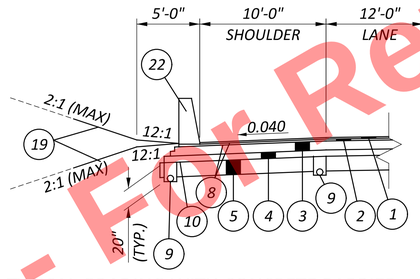

## SHOULDER DETAIL AGAINST EXISTING WALL/ABUTMENT

LT: STA. 89+37.30 TO STA. 106+05.21 = 2482.37 FT.
RT: STA. 89+32.15 TO STA. 90+74.60 = 799.97 FT.

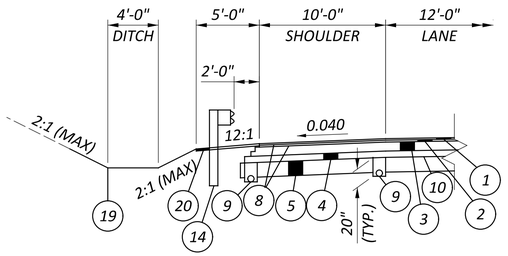



## SHOULDER DETAIL AGAINST EXISTING WALL

STA. 99+60.00 TO STA. 101+85.51 = 225.51 FT.




## TYPICAL GRADING WITH CONCRETE BARRIER

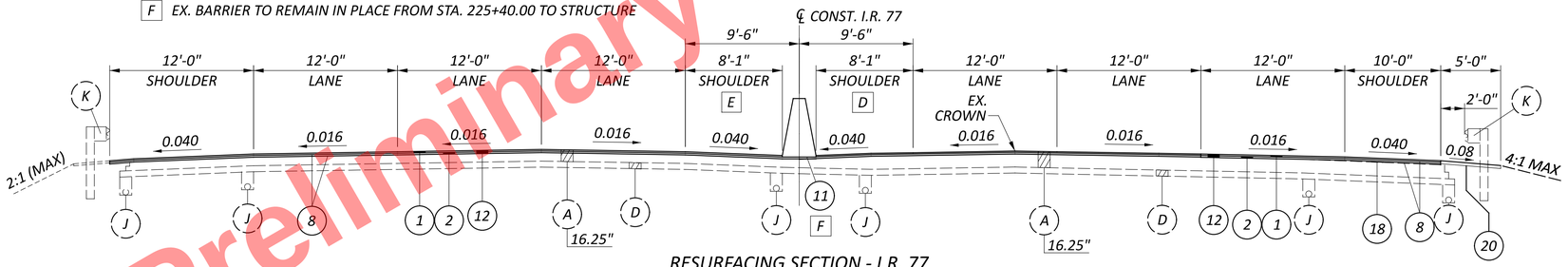



## TYPICAL GRADING IN CUT WITH GUARDRAIL

D VARIES FROM 8'-1" AT STA. 222+89.59 TO 6'-1" AT STA. 225+40.00
8'-1" FROM STA. 225+40.00 TO STA. 227+98.78

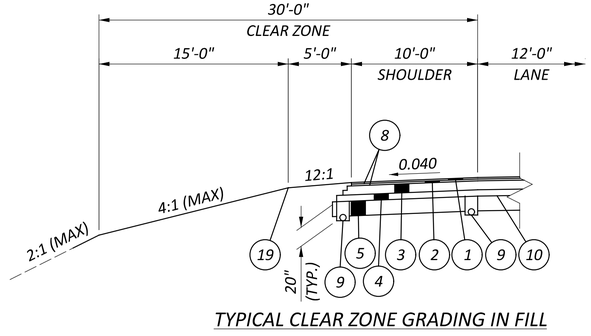
E VARIES FROM 8'-1" AT STA. 222+89.59 TO 10'-1" AT STA. 225+40.00
10'-1" FROM STA. 225+40.00 TO 227+98.78

F EX. BARRIER TO REMAIN IN PLACE FROM STA. 225+40.00 TO STRUCTURE




## RESURFACING SECTION - I.R. 77

LT: STA. 220+83.50 TO STA. 228+99.12 = 815.62 FT. RT: STA. 220+83.50 TO STA. 227+98.78 = 715.28 FT.
CROSS SLOPE CORRECTION IN OUTSIDE LANE




## TYPICAL CLEAR ZONE GRADING IN FILL

## PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5 " ASPHALT CONCRETE BASE (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. ITEM 252 - FULL DEPTH PAVEMENT SAWING
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D

NOTE:
PEJF - PREFORMED EXPANSION JOINT FILLER

+ NORMAL DESIGN CRITERIA 8'-0"
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

A LT MEASURED FROM I.R. 77 OUTSIDE THRU LANE:
WIDTH IS 12'-0" FROM STA. 89+37.30 TO STA. 94+94.39
VARIES FROM 12'-0" AT STA. 94+94.39 TO 11'-0" AT STA. 95+45.30
WIDTH IS 11'-0" FROM STA. 95+45.30 TO STA. 96+81.19

\+ LT MEASURED FROM ADJACENT LANE:
VARIES FROM 12'-0" AT STA. 93+55.21 TO 4'-5" AT STA. 96+81.19
VARIES FROM 4'-5" AT STA. 96+81.19 TO 8'-0" AT STA. 106+05.21

\+ RT MEASURED FROM ADJACENT LANE:
VARIES FROM 8'-0" AT STA. 83+55.66 TO 4'-7" AT STA. 89+32.15
VARIES FROM 4'-7" AT STA. 89+32.15 TO 8'-0" AT STA. 90+74.60

* SEE SHEETS 385-408 FOR DETAILS ON THE VARIABLE WIDTHS AND CROSS SLOPES.

Preliminary Plans - For Reference Only

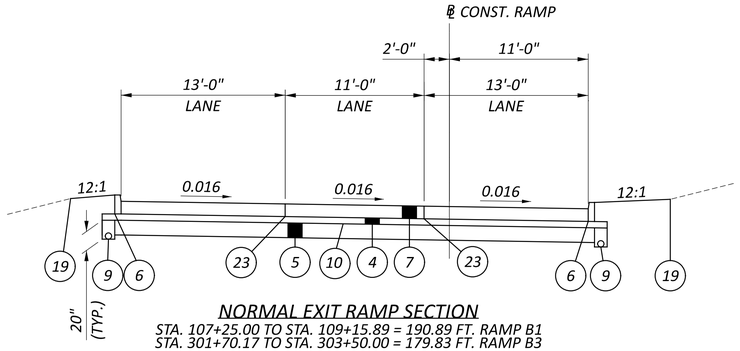
PROPOSED TYPICAL SECTIONS
DETAILS

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.23 TOTAL P.1135

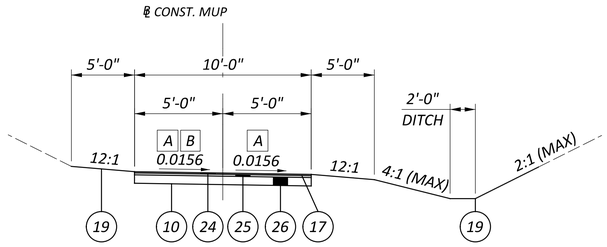
CUY-77-11.43 - PART 1

MODEL: PROP. TYPICAL-3 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:46 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn



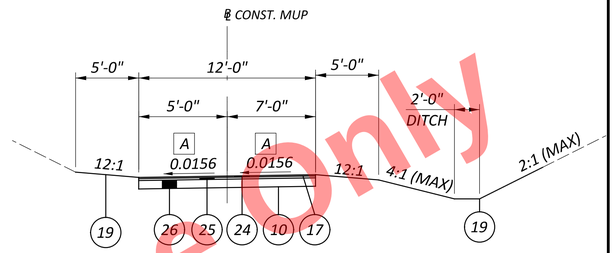

## NORMAL EXIT RAMP SECTION

STA. 107+25.00 TO STA. 109+15.89 = 190.89 FT. RAMP B1
STA. 301+70.17 TO STA. 303+50.00 = 179.83 FT. RAMP B3



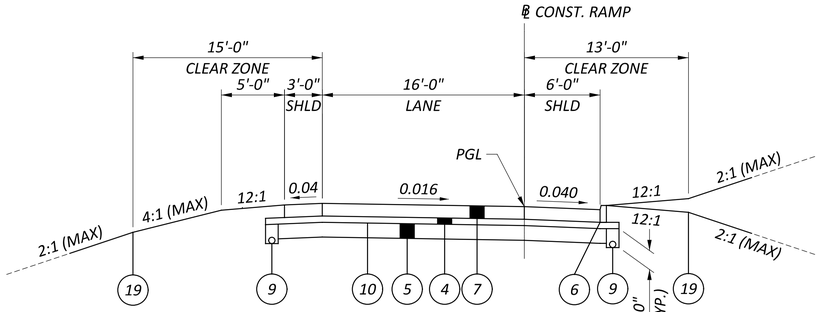

## MULTI -USE PATH

STA. 5+25.95 TO 17+00.00 = 756.22 FT.
EAST MUP: STA. 20+00.00 TO STA. 26+58.61 = 765.22'



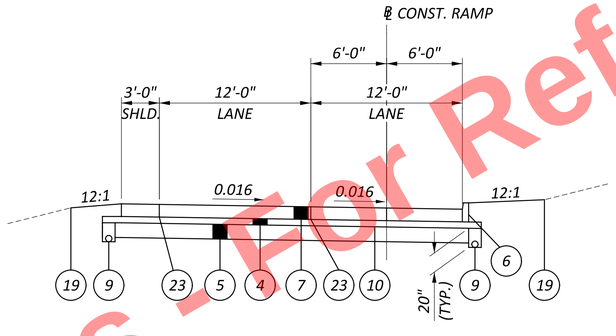

## MULTI -USE PATH

STA. 17+00.00 TO STA. 30+35.00 = 1,335.00'



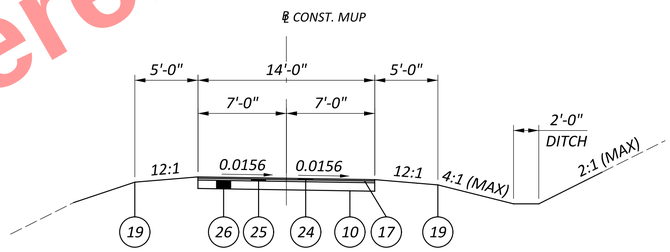

## NORMAL SECTION - RAMP

STA. 300+29.34 TO STA. 305+50.11 = 520.77 FT. RAMP A3
STA. 400+30.58 TO STA. 405+69.71 = 531.13 FT. RAMP A4
STA. 303+50.00 TO STA. 304+96.92 = 146.92 FT. RAMP B3
STA. 401+75.00 TO STA. 402+63.29 = 88.29 FT. RAMP B4
STA. 104+81.00 TO STA. 110+70.00 = 589.00 FT. RAMP C1
STA. 203+00.00 TO STA. 204+28.48 = 128.48 FT. RAMP C2
STA. 300+46.76 TO STA. 303+29.35 = 282.59 FT. RAMP C3
STA. 106+46.05 TO STA. 107+00.02 = 53.97 FT. RAMP D1



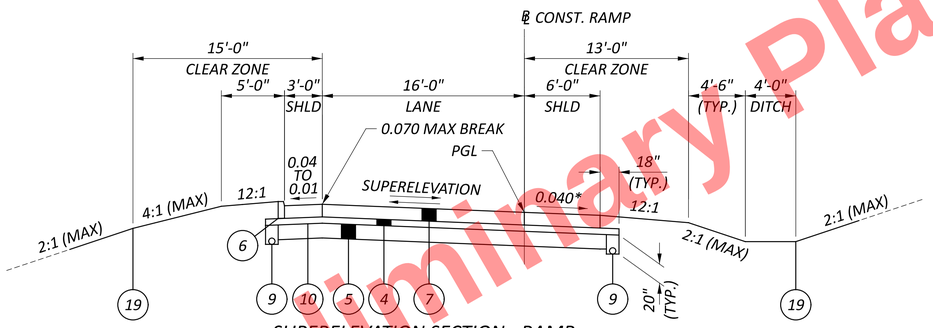

## NORMAL EXIT RAMP SECTION

STA. 110+50.00 TO STA. 113+47.06 = 297.06 FT. RAMP E1



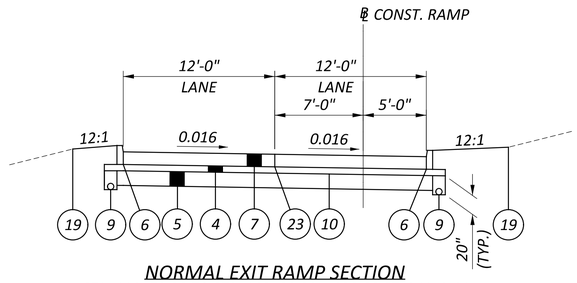

## MULTI -USE PATH

STA. 31+20.00 TO STA. 52+80.00 = 2,160.00 FT.



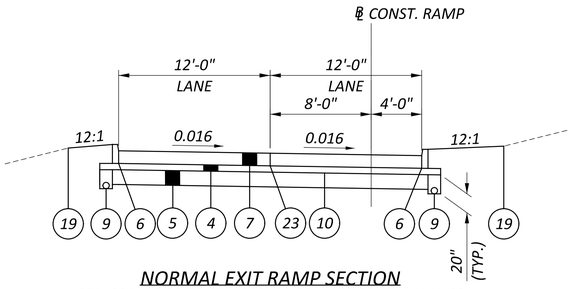

## SUPERELEVATION SECTION - RAMP

STA. 305+50.11 TO STA. 311+29.78 = 579.67 FT. RAMP A3
STA. 405+69.71 TO STA. 408+23.18 = 253.47 FT. RAMP A4
STA. 100+00.00 TO STA. 107+25.00 = 725.00 FT. RAMP B1
STA. 200+00.00 TO STA. 204+73.30 = 473.30 FT. RAMP B2
STA. 304+96.92 TO STA. 310+93.05 = 596.13 FT. RAMP B3
STA. 402+63.29 TO STA. 408+85.29 = 622.00 FT. RAMP B4
STA. 100+00.00 TO STA. 104+81.00 = 481.00 FT. RAMP C1
STA. 204+28.48 TO STA. 209+93.40 = 564.92 FT. RAMP C2
STA. 303+29.35 TO STA. 306+93.62 = 364.27 FT. RAMP C3
STA. 96+45.46 TO STA. 106+46.05 = 997.59 FT. RAMP D1
STA. 200+00.00 TO STA. 205+90.00 = 590.00 FT. RAMP D2
STA. 100+00.00 TO STA. 110+50.00 = 1,050.00 FT. RAMP E1




## NORMAL EXIT RAMP SECTION

STA. 110+70.00 TO STA. 112+00.02 = 130.02 FT. RAMP C1




## NORMAL EXIT RAMP SECTION

STA. 201+50.00 TO STA. 203+00.00 = 150.00 FT. RAMP C2

## PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5 " ASPHALT CONCRETE BASE (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. ITEM 252 - FULL DEPTH PAVEMENT SAWING
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE

A 0.0156 (RT) FROM STA. 10+12.00 TO STA. 15+36.63
SLOPE VARIES FROM 0.0156 (RT) @ STA. 15+36.63
TO 0.0156 (LT) @ STA 17+00.00

B EAST MUP SLOPE VARIES FROM 0.0156 @ STA. 26+20.00
TO 0.0294 @ STA 26+41.22

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER.
IF ON THE HIGH SIDE OF SUPERELEVATION 5' ROUNDING APPLIES

NOTE:
SECTIONS ARE SHOWN LOOKING IN THE DIRECTION OF TRAVEL.

SEE SHEETS 381-387 FOR SUPERELEVATION AND TRANSITION DETAILS.

PGL - PROFILE GRADE LINE

4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

Preliminary Plans - For Reference Only

# PROPOSED TYPICAL SECTIONS INTERCHANGE RAMPS AND MUP

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.24 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: PROP_TYPICAL4 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:47 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn

## GENERAL

### ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

### UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T
13630 LORAIN AVE. 2ND FLOOR
CLEVELAND, OHIO 44111
ATTN: JAMES JANIS
PHONE: 216-476-6142
EMAIL: PJ8191@ATT.COM

CLEVELAND PUBLIC POWER
1300 LAKESIDE AVE., ROOM 152
CLEVELAND, OHIO 44114
ATTN: CHRIS HIRZEL
PHONE: 216-563-7212
EMAIL: CHIRZEL@CPP.ORG

VILLAGE OF CUYAHOGA HEIGHTS
4863 EAST 71ST STREET
CUYAHOGA HEIGHTS, OHIO 44125
ATTN: TODD SCIANO,
VILLAGE ENGINEER
PHONE: (216) 642-1130, EXT. 123,
EMAIL: TSCIANO@DGBASSOC.COM

CITY OF CLEVELAND -
DIVISION OF WATER
1201 LAKESIDE AVE.
CLEVELAND, OH 44114
ATTN: FRED ROBERTS
PHONE: 216-664-2444 X 75590
EMAIL: FRED_ROBERTS@
CLEVELANDWATER.COM

WINDSTREAM
2165 STATE ROUTE 133
SOUTH BLANCHESTER,
OH 45107
ATTN: LEON TAYLOR
PHONE: 937-725-5358

NORTHEAST OHIO REGIONAL
SEWER DISTRICT
3900 EUCLID AVE.
CLEVELAND, OH 44115
ATTN: ROBERT STOERKEL
PHONE: 216-881-6600 x6802
EMAIL: STOERKELR@NEORSD.ORG

CEI FIRST ENERGY
6896 MILLER RD., SUITE 101
BRECKSVILLE, OH 44141
ATTN: JOHN ZASSICK
PHONE: 440-546-8706
EMAIL: JMZASSICK
@FIRSTENERGYCORP.COM

CHARTER COMMUNICATIONS
7 SEVERANCE CIRCLE
CLEVELAND HEIGHTS, OH 44118
ATTN: EMIL SYMISTER
PHONE: 216-575-8016 x12165551158
EMAIL: EMIL.SYMISTER@CHARTER.COM
7820 DIVISION DR., MENTOR, OH 44060

CEI FIRST ENERGY - TRANSMISSION
76 SOUTH MAIN STREET
AKRON, OH 44308, A-GO-3
ATTN: MARY WALTON
PHONE: 330-384-4928
EMAIL: MWALTON
@FIRSTENERGYCORP.COM

CITY OF CLEVELAND -
DIVISION OF WATER
POLLUTION CONTROL
12302 KIRBY AVE.
CLEVELAND, OHIO 44108
ATTN: ELIE RAMY
PHONE: 216-664-2756
EMAIL: ERAMY
@CLEVELANDWPC.COM

SUNOCO PIPELINE L.P.
525 FRITZTOWN RD.
SINKING SPRING, PA 19608
ATTN: DEB SCHNECK
PHONE: 610-670-3258
EMAIL: DEBRA.SCHNECK
@ENERGYTRANSFER.COM

EVERSTREAM
1228 EUCLID AVE., SUITE 250
CLEVELAND OHIO 44115
ATTN: TALITHIA SMITH,
DIRECTOR PERMITS
W: 216-923-2250, C: 216-219-3511
TSMITH@EVERSTREAM.NET,
PERMITS@EVERSTREAM.NET

ODOT - D12 TRAFFIC
5500 TRANSPORTATION BLVD.
GARFIELD HEIGHTS, OH 44125

ENBRIDGE
320 SPRINGSIDE DR., SUITE 320
AKRON, OHIO 44333
PHONE: 330-664-2409
EMAIL: RELOCATION
@DOMINIONENERGY.COM

VILLAGE OF NEWBURGH HEIGHTS
ATTN: JAMES SICKELS, CITY ENGINEER
PHONE: 330-657-2145
EMAIL: JAMES.SICKELS
@OHM-ADVISORS.COM

DUCK CREEK ENERGY, INC.
7033 MILL RD.
BRECKSVILLE, OH 44141
ATTN: DAVID MANSBERY
PHONE: 440-668-9813
EMAIL: DMANSBERY@
DUCKCREEKENERGY.COM

CITY OF CLEVELAND -
DIVISION OF TRAFFIC ENGINEERING
601 LAKESIDE AVE., RM 25
CLEVELAND, OHIO 44114
ATTN: ANDREW R. CROSS
PHONE: 216-664-3197
EMAIL: ACROSS
@CITY.CLEVELAND.OH.US

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

### EXISTING PLANS

EXISTING PLANS FOR THE PROJECT CORRIDOR MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

### CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, WORK HOURS WILL BE RESTRICTED TO 7:00 AM TO 7:00 PM.

THE CONTRACTOR SHALL APPLY FOR A CITY OF CLEVELAND NOISE VARIANCE TO PERFORM NIGHT TIME WORK. IN THE EVENT A NOISE VARIANCE IS NOT GRANTED BY THE DIRECTOR OF SAFETY, WORK SHALL COMMENCE DURING DAYTIME HOURS AT NO ADDITIONAL COST. ANY ADDITIONAL MAINTENANCE OF TRAFFIC COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN. NO SEPARATE PAYMENT WILL BE MADE.

DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE NOISE LEVEL RESULTING FROM CONSTRUCTION SHALL BE WITHIN THE LIMITS SPECIFIED IN OSHA REGULATIONS AND IN ALL LOCAL ORDINANCES.

### SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

| | |
|---|---|
| PROJECT CONTROL: | REFER TO SCHEMATIC PLAN P.3 |
| POSITIONING METHOD: | ODOT VRS |
| MONUMENT TYPE: | TYPE B |
| VERTICAL POSITIONING | |
| ORTHOMETRIC HEIGHT DATUM: | NAVD 88 |
| GEOID: | 2012B |
| HORIZONTAL POSITIONING | |
| REFERENCE FRAME: | NAD 83 (CORS2011) |
| ELLIPSOID: | GRS80 |
| MAP PROJECTION: | LAMBERT CONFORMAL CONIC |
| COORDINATE SYSTEM: | OHIO NORTH ZONE (3401) |
| COMBINED SCALE FACTOR: | 0.999933365 |
| ORIGIN OF COORDINATE SYSTEM: | 0,0,0 |

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

### WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

### PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OFWAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEET ____, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

### CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

### CITY OF CLEVELAND PERMITS

IN THE CITY OF CLEVELAND, ALL PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING ANY WORK WITHIN THE CITY OF CLEVELAND RIGHT OF WAY. PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMIT, OVERLOAD PERMIT, OBSTRUCTION PERMIT AND/OR SIDEWALK PERMIT AND MAY BE OBTAINED THROUGH THE FOLLOWING CONTACT:

TRAVIS EVANS
DEPARTMENT OF FINANCE
DIVISION OF ASSESSMENTS AND LICENSES
601 LAKESIDE AVENUE, ROOM 122
CLEVELAND, OHIO 44114
PHONE: (216) 664-2174
EMAIL: DALPERMITS@CITY.CLEVELAND.OH.US

ALL STREET OPENING REPAIRS, CURB REPAIRS, AND/OR SIDEWALK REPAIRS EITHER INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED ON-LINE UNDER THE "FORMS AND PUBLICATIONS" TAB OF THE CAPITAL PROJECTS WEBSITE OR FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING (216) 664-2381.

ALL PERMITS, FEES AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE PERTINENT WORK ITEMS PER SECTION 107.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. FOR BIDDING PURPOSES, THE FOLLOWING FEES AND CHARGES HAVE BEEN ESTIMATED BY THE CITY OF CLEVELAND DIVISION OF ENGINEERING AND CONSTRUCTION ON BEHALF OF THE DIVISION OF ASSESSMENTS AND LICENSES (DAL):

$_____

DAL HAS ASSIGNED STP NUMBER xxxxx TO THIS PROJECT. THE AWARDED CONTRACTOR SHALL CONTACT DAL AS DESCRIBED ABOVE, USING THE ASSIGNED STP NUMBER FOR REFERENCE. THE CONTRACTOR SHALL PROVIDE DAL WITH THEIR CERTIFICATE OF INSURANCE (COI) MEETING THE CITY OF CLEVELAND REQUIREMENTS. UPON SUBMITTAL OF THE COI AND RECEIPT OF PAYMENT, DAL WILL ISSUE THE PERMIT.

### DOMINION EAST OHIO - PIPELINE PROTECTION

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION EAST OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND EXISTING DEO FACILITY. PLEASE CONTACT DOMINION'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUSER (330-478-3757).

DEO = THE EAST OHIO GAS COMPANY
DBA DOMINION EAST OHIO, 1-800-362-7557

### MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. _____.

### ITEM 204 PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRINGPROOF ROLLING. SEE PLAN SHEET NO_____FOR ADDITIONAL INFORMATION.

ITEM 204 PROOF ROLLING_____HOUR.

### FIRST ENERGY TRANSMISSION FACILITIES

MULTIPLE 138,000 VOLTS NOMINAL (144,900 VOLTS MAXIMUM) FIRST ENERGY TRANSMISSION FACILITIES ARE LOCATED WITHIN THE PROJECT AREA. THERE IS AN OVERHEAD CROSSING (JUNIPER-JENNINGS 138 KV Q-16) BETWEEN GRANT AVE. AND HARVARD AVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS NO OVERNIGHT PARKING OR STOCKPILING OF MATERIALS AND DEBRIS WITHIN THE FE/CEI RIGHT OF WAY.

IF ANY REVISIONS TO THE SUBMITTED PLANS OR CHANGES DURING CONSTRUCTION OCCUR WITHIN THE TRANSMISSION RIGHT-OF-WAY, WORK SHALL CEASE, AND REVISIONS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL. IT IS RECOMMENDED THAT HIGH VOLTAGE SIGNS BE USED TO WARN WORKERS OF THE PRESENCE OF OVERHEAD CONDUCTORS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW AND MAINTAIN ALL OSHA REQUIRED CLEARANCES WHEN WORKING NEAR OVERHEAD WIRES. THE SAG IN WIRES MAY BE GREATER AT CERTAIN TIMES OF YEAR DEPENDING ON TEMPERATURE. THE OVERHEAD WIRES SHOULD BE CONSIDERED ENERGIZED AT ALL TIMES.

### AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 46 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE RD.
COLUMBUS, OHIO 43235
OHIO.AIRPORT.PROTECTION
@DOT.OHIO.GOV

### FENCE

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

### FENCE REMOVAL AND REPLACEMENT

THE PROJECT IS PERFORMING GLOBAL REPLACEMENT OF THE LIMITED ACCESS RIGHT OF WAY (L/A) FENCING. UNLESS OTHERWISE INDICATED ON THE PLANS THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING L/A FENCING. THE CONSTRUCTION LIMITS SHOWN ON THE PROJECT PLANS ARE BASED ON GRADING AND OTHER PHYSICAL CONSTRUCTION ACTIVITIES INDEPENDENT OF FENCE REPLACEMENT ACTIVITIES. FOR FENCE REPLACEMENT ACTIVITIES OUTSIDE OF THE CONSTRUCTION LIMITS THE CONTRACTOR SHALL LIMIT TREE CUTTING AND EARTH DISTURBING ACTIVITIES TO A MAXIMUM WIDTH OF 10', OR AS NECESSARY TO ACCESS THE FENCE, AS APPROVED BY THE ENGINEER . AT THESE LOCATIONS THE PLAN INTENT IS TO REPLACE THE L/A FENCE AT THE EXISTING FENCE LOCATIONS. ALL FENCE REPLACEMENT AND CLEARING ACTIVITIES SHALL OCCUR WITHIN THE EXISTING L/A RIGHT OF WAY OR ADJACENT MUNICPAL RIGHT OF WAYS.

### SUBGRADE IMPROVEMENTS NEAR EXISTING UTILITIES

IN AREAS OF PROPOSED SUBGRADE IMPROVEMENTS THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS PRESENT TO ENSURE NO IMPACTS OR DAMAMGE DURING CONSTRUCTION. IF UTILITIES ARE PRESENT IN THE STABILIZATION AREAS THEY SHALL BE MARKED AND CARE TAKEN TO WORK AROUND THEM AND COMPLETE THE WORK TO THE SATISFACTION OF THE ENGINEER.

### BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

### REMOVAL OF RETAINING WALLS

UNLESS OTHERWISE INDICATED IN THE PLANS, EXISTING RETAINING WALL REMOVALS SHALL BE PERFORMED TO THE EXTENT NECESSARY TO COMPLETE PROJECT WORK AND IN ACCORDANCE WITH CMS 202.03. FULL REMOVAL OF RETAINING WALL STRUCTURES IS NOT ANTICIPATED AT EACH LOCATION.

### PREVIOUSLY REMOVED STRUCTURES

EXISTING BRIDGE ABUTMENT AND PIER ELEMENTS FROM PREVIOUSLY REMOVED STRUCTURES ARE ANTICIPATED TO BE ENCOUNTERED WHEN PERFORMING PROJECT WORK INCLUDING BUT NOT LIMITED TO DRAINAGE AND OTHER CONDUIT INSTALLATIONS, SUBGRADE STABILIZATION, RETAINING WALL CONSTRUCTION, ETC.

Preliminary Plans - For Reference Only

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 02/15/22

PROJECT ID
105743

SHEET P.25 TOTAL P.1135

CUY-77-11.43 - PART 1

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## ROADWAY

### CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM,BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

### ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

THIS ITEM OF WORK SHALL BE USED TO PREPARE PROPOSED AND EXISTING GUARDRAIL RUNS FOR PAVING UNDER GUARDRAIL, INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING ASPHALT UNDER GUARDRAIL.

A SAWCUT WILL BE PERFORMED, WHEN APPLICABLE, TO ASSIST THE REMOVAL OF EXISTING ASPHALT UNDER GUARDRAIL AND MINIMIZE DAMAGE TO EXISTING SHOULDER ASPHALT. PAYMENT FOR SAWCUTTING WILL BE INCLUDED IN THE BID PRICE FOR
ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN.

FILL ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND ANCHOR ASSEMBLIES WITH GRANULAR MATERIAL. DO NOT USE FILL MATERIAL CONTAINING SOD. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE IS INCLUDED IN THE APPLICABLE GUARDRAIL ITEM.

RESHAPE AND COMPACT SUBGRADE TO ENSURE POSITIVE DRAINAGE. ESTABLISH A CROSS-SLOPE OF 0.042 (HALF INCH PER FOOT). GRADE TO A MAXIMUM WIDTH OF 6’ TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TRAVEL LANES.

ALL COLLECTED DEBRIS AND TOPSOIL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.17 OF THE CMS.

IN AREAS WHERE ASPHALT UNDER GUARDRAIL WILL NOT BE REPLACED, THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 AND PLACED TO GRADE AS APPROVED BY THE ENGINEER. SEED AND MULCH THESE AREAS ACCORDING TO SECTION 659.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE WORK.

### ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER’S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 TO A DEPTH OF 3” AND A MAXIMUM WIDTH OF 4’ USING ONE OF THE FOLLOWING METHODS:

METHOD A:

1.SET GUARDRAIL POSTS
2.PLACE ITEM 441

METHOD B:

1.PLACE ITEM 441
2.BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
3.SET GUARDRAIL POSTS
4.PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

### ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETYDEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE J, ASTM D4956 TYPE XI REFLECTIVE SHEETING, PER CMS 730.193.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

### ITEM 607 – FENCE, TYPE CLT, AS PER PLAN A

THIS ITEM SHALL CONSIST OF CONSTRUCTING CHAIN LINK FENCE IN ACCORDANCE WITH CMS ITEM 607 AND STANDARD CONSTRUCTION DRAWING F-1.1 WITH THE FOLLOWING MODIFICATIONS:

1. FENCE HEIGHT SHALL BE INCREASED FROM 60” TO 96”
2. TENSION WIRE SHALL BE OMITTED
3. LINE POSTS SHALL BE CONSTRUCTED AT 8’ MAXIMUM SPACING AND SHALL BE: GRADE 2, 2.875” O.D., 0.203” WALL THICKNESS, 50,000 PSI YIELD STRENGTH. LINE POSTS SHALL BE EMBEDDED 36” BELOW GROUND.
4. END AND CORNER POSTS SHALL BE: GRADE 2, 4.0” O.D. 0.226” WALL THICKNESS, 50,000 PSI YIELD STRENGTH. END AND CORNER POSTS SHALL BE EMBEDDED 42” BELOW GROUND.
5. 1.66” O.D. GALVANIZED STEEP PIPE, ASTM F1083 RAILS SHALL BE CONSTRUCTED AT THE TOP AND BOTTOM OF EACH FENCE PANEL
6. ALL FENCE POSTS SHALL BE ENCASED IN CONCRETE. LINE POST ENCASEMENT SHALL BE 12” DIAMETER, 36” DEEP. END AND CORNER POST ENCASEMENT SHALL BE 18” DIAMETER, 42” DEEP.

### ITEMS 607 – FENCE, TYPE CLT, AS PER PLAN B

THIS ITEM SHALL CONSIST OF CONSTRUCTING CHAIN LINK FENCE IN ACCORDANCE WITH CMS ITEM 607, STANDARD CONSTRUCTION DRAWING F-1.1 AND WITH THE FOLLOWING MODIFICATIONS:

1. FENCE HEIGHT SHALL BE INCREASED FROM 60” TO 72”
2. FENCE SHALL BE TOPPED WITH THREE STRANDS OF BARBED WIRE ATTACHED TO 12” TALL ANGLED ARM EXTENSIONS
3. FENCE POSTS, HARDWARE AND VINYL-COATED CHAIN LINK FABRIC SHALL BE MEDIUM GREEN COLOR.
4. LINE POSTS SHALL BE: GRADE 2, 2.375” O.D., 0.154” WALL THICKNESS, 50,000 PSI YIELD STRENGTH. LINE POSTS SHALL BE EMBEDDED 36” BELOW GROUND.
5. END AND CORNER POSTS SHALL BE: GRADE 2, 2.875” O.D., 0.203” WALL THICKNESS, 50,000 PSI YIELD STRENGTH. END AND CORNER POSTS SHALL BE EMBEDDED 48” BELOW GROUND.
6. ALL FENCE POSTS SHALL BE ENCASED IN CONCRETE. LINE POST ENCASEMENT SHALL BE 12” DIAMETER, 42” DEEP. END AND CORNER POST ENCASEMENT SHALL BE 15” DIAMETER, 54” DEEP.
7. SEE “ROW FENCE DETAIL”, SHEET XX FOR ADDITIONAL DETAILS.

### ITEM 623 - MONUMENT MISC: MONUMENT REFERENCING

THE CONTRACTOR SHALL LOCATE AND REFERENCE ALL EXISTING ROADWAY AND/OR CENTERLINE MONUMENTS WITHIN THE LIMITS OF THE PROPOSED WORK FOR THE PURPOSES OF RESETTING/REESTABLISHING THEIR EXACT LOCATION IN THE EVENT THEY ARE DISPLACED OR DAMAGED DURING CONSTRUCTION. ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED SURVEYOR PROVIDED BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE START OF ANY PROXIMATE GRADING, PAVING OR OPERATIONS THAT COULD DISTURB THE MONUMENTS. CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO PRESERVE EXISTING MONUMENTS.

UPON LOCATING THE EXISTING MONUMENTS, THE MONUMENT IRON PINS OR DRILL HOLES IN STONE (IF MONUMENT BOX IS EMPTY, NOTIFY CITY OF CLEVELAND IMMEDIATELY) SHALL BE CAREFULLY EXPOSED AND REFERENCED TO NO LESS THAN THREE (3) PERMANENT OBJECTS. ANY EXISTING MONUMENTS THAT MIGHT REQUIRE REPLACEMENT SHALL BE NOTED. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL DELIVER A COPY OF ALL SURVEY AND REFERENCE NOTES TO THE ENGINEER AND TO THE CHIEF SURVEYOR AT THE CITY OF CLEVELAND, DIVISION OF ENGINEERING AND CONSTRUCTION, 601 LAKESIDE AVENUE ROOM 518, CLEVELAND, OH 44114, ATTN GREG ESBER AT (216) 664-2460, GESBER@CITY.CLEVELAND.OH.US.

ADJUSTMENTS OR REPLACEMENTS OF MONUMENT BOXES OR ASSEMBLIES MAY NOT COMMENCE UNTIL THE REFERENCES HAVE BEEN CHECKED/VERIFIED AND APPROVED BY THE ENGINEER. THE REFERENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

### ITEM 623 - MONUMENT MISC: MONUMENT REFERENCING (CONT.)

- CONSIST OF DURABLE POINTS OUTSIDE OF THE CONSTRUCTION LIMITS SUCH AS PK OR MAG NAILS IN POLES OR PAVEMENT, DRILL HOLES, IRON PINS, SPECIFICALLY DEFINED BUILDING CORNERS, ETC.
- SPECIFICALLY DEFINED AND LOCATABLE TO WITHIN 0.01 FEET.
- TIED TO EXISTING MONUMENT TO WITHIN 0.01 FEET. ERROR IS NOT TO EXCEED THIS AMOUNT.
- A MINIMUM OF THREE POINTS PER MONUMENT REFERENCED.
- LOCATED 100 FEET OR LESS FROM MONUMENT, SUCH THAT A STEEL TAPE COULD BE USED TO RE-ESTABLISH POSITION.

THE PER EACH UNIT PRICE PAYMENT FOR THIS WORK SHALL INCLUDE LOCATING THE MONUMENTS, CAREFULLY CLEANING OUT THE MONUMENT BOXES AND/OR EXPOSING THE MONUMENT PINS/POINTS, REFERENCING THE MONUMENTS AND ALL RELATED NOTATION. THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR ALL MONUMENTS KNOWN TO EXIST OR INITIALLY FOUND/ENCOUNTERED WITHIN THE WORK LIMITS:

623, MONUMENT MISC: MONUMENT REFERENCING XX EA

### ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND THE LANE AND SHOULDER CONFIGURATION OF THE ROADWAY THAT PASSES BELOW THE BRIDGE. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP SITE:
FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH/CUY-105743

### ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN

WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT ASSEMBLY AND REPLACE IT WITH A CITY OF CLEVELAND MONUMENT ASSEMBLY AS DETAILED ON THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C. THE WORK SHALL INCLUDE FURNISHING AND INSTALLING ONE (1) ONE INCH (1”) DIAMETER EPOXY STEEL DEFORMED REINFORCING BAR THIRTY-SIX INCHES (36") LONG, FLAT ON TOP WITH A ROUND POINTED END.

THE CONTRACTOR SHALL HIRE COMPETENT PERSONNEL AND USE SUITABLE EQUIPMENT FOR THE WORK TO BE PERFORMED UNDER DIRECT SUPERVISION OF A PROFESSIONAL SURVEYOR, LICENSED AND REGISTERED TO PRACTICE IN THE STATE OF OHIO.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

623, MONUMENT ASSEMBLY, AS PER PLAN XX EACH

### ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN

WHERE MONUMENT BOXES ARE BOTH SUITABLE FOR RE-USE AND CONFORM TO THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C, THEY SHALL BE ADJUSTED TO GRADE AS REQUIRED AND SPECIFIED. WHERE THE PLANS CALL FOR THE EXISTING MONUMENT BOXES TO BE REPLACED, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT BOX AND REPLACE IT AS DETAILED ON THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C, SET TO PROPER GRADE.

CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONUMENTS DURING PAVEMENT REMOVAL OPERATIONS. CONTRACTOR SHALL UTILIZE FULL-DEPTH SAW CUTS AROUND EXISTING MONUMENTS IN BASE REPAIR AREAS WHENEVER NECESSARY TO AVOID MONUMENT DAMAGE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.

IN ADDITION TO ADJUSTING THE CASTING VERTICALLY, THIS PAY ITEM SHALL INCLUDE CENTERING THE CASTING OVER THE EXISTING IRON PIN OR STONE MONUMENT. THE ENTIRE MONUMENT BOX CASTING SHALL BE ADJUSTED TO GRADE; NO INSERTS OR ADJUSTING RINGS WILL BE PERMITTED. IF THE EXISTING IRON PIN OR STONE IS EITHER MISSING OR DAMAGED, A NEW MONUMENT ASSEMBLY SHALL BE INSTALLED AND PAID FOR AS ITEM 623-MONUMENT ASSEMBLY, AS PER PLAN.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN.

## EROSION CONTROL

### SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

| | |
|---|---|
| ITEM 659, SOIL ANALYSIS TEST | ___EACH |
| ITEM 659, TOPSOIL | ___CU. YD. |
| ITEM 659, SEEDING AND MULCHING | ___SQ. YD. |
| ITEM 659, REPAIR SEEDING AND MULCHING | ___SQ. YD. |
| ITEM 659, INTER-SEEDING | ___SQ. YD. |
| ITEM 659, COMMERCIAL FERTILIZER | ___TON |
| ITEM 659, LIME | ___ACRES |
| ITEM 659, WATER | ___M. GAL. |
| ITEM 659, MOWING | ___M. SQ. FT. |

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

### POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

### VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

### VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

## PAVEMENT

### CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

### CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO AND TIED TO EXISTING CONCRETE, THE CONTRACTION JOINT SPACING REQUIRED IN STANDARD CONSTRUCTION DRAWING BP-2.2 WILL BE WAIVED. CONSTRUCT CONTRACTION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL CONTRACTION JOINTS IN THE EXISTING CONCRETE PAVEMENT. INSTALL EXPANSION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL EXPANSION JOINTS IN THE EXISTING CONCRETE PAVEMENT.

### 302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX

***MIX DESIGN*** - FOLLOW THE REQUIREMENTS OF 302.02 EXCEPT AS MODIFIED BELOW:

THE TSR TEST PER SUPPLEMENT 1051 IS REQUIRED AND THE MINIMUM TSR IS 0.80 FOLLOWING THE 150 MM GYRATORY COMPACTED SPECIMEN PROCEDURE. USE ANTISTRIP ADDITIVE AS SPECIFIED IN 440.06.

USE 150 MM DIAMETER SUPERPAVE GYRATORY COMPACTOR MOLDS. FILL MOLDS DURING COMPACTION IN ONE LIFT AND NOT TWO AS YOU WOULD DO WITH 302 MIXES. DO NOT SPADE. VOLUMETRIC PILL HEIGHTS OF 110 TO 120 MM. USE A PILL HEIGHT OF 95 MM FOR STABILITY AND FLOW AND CONVERT, IF NEEDED, USING TABLE 302-02-2.

REPLACE TABLE 302-02-1 WITH THE FOLLOWING:

Preliminary Plans - For Reference Only

GENERAL NOTES

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | EAP |
| REVIEWER | KKP 02/15/22 |
| PROJECT ID | 105743 |
| SHEET | P.26 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1
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**PAVEMENT (CONT.)**

302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (CONT.)

**TABLE 302.02-1 MIX COMPOSITION**

| PROPERTY | LIMITS |
|---|---|
| 1 1/2 INCH (37.5 MM)[1] | 100 |
| 1 INCH (25.0 MM)[1] | 90 TO 100 |
| 3/4 INCH (19.0 MM) [1][2] | 90 MAX |
| 1/2 INCH (12.5 MM)[1][2] | |
| 3/8 INCH (9.5 MM)[1] [2] | |
| NO. 8 (2.36 MM)[1] | 19 TO 45 |
| NO. 200 (75 µM) [1] | 1 TO 7 |
| ASPHALT BINDER [3] | 4.1 5.5 [4] |
| DESIGN GYRATIONS [5] | 50 |
| STABILITY, LB [6] (N) | 3000 (13,345) [MIN] |
| FLOW, 0.25 MM [6] | 28 [MAX] |
| DESIGN AIR VOIDS [7] | 3.5 |
| F/A, MAX. [8] | 1.2 |
| VMA, MIN. [9] | 12.0 |
| CTINDEX, MIN. [10] | 60 |

[1] SIEVE, PERCENT PASSING
[2] PROVIDE AGGREGATE TO RETAIN A MINIMUM OF 7 PERCENT OF THE MATERIAL ON EACH OF THESE SIEVES. THIS REQUIREMENT APPLIES TO THE GRADATION OF THE JMF ONLY.
[3] PERCENT OF TOTAL MIX. MINIMUM VIRGIN ASPHALT BINDER CONTENT IS 2.2% FOR METHOD 1 AND 2.0% FOR METHOD 2.
[4] PERCENT OF TOTAL MIX
[5] NINI AND NMAX DO NOT APPLY.
[6] ASTM D5581
[7] PERCENT, SUPPLEMENT 1036
[8] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[9] PERCENT, SUPPLEMENT 1037
[10] PERFORM THE IDEAL-CT AND REPORT RESULTS ACCORDING TO SUPPLEMENT 1033

**QUALITY CONTROL AND ACCEPTANCE** - FOLLOW THE REQUIREMENTS AS SPECIFIED IN 403 USING 446 ACCEPTANCE EXCEPT AS MODIFIED BELOW:

RUN MSG AND AIR VOIDS AND FOLLOW 403.06.G INSTEAD OF 403.06.F.

**TABLE 403.06-1**

| MIX CHARACTERISTIC | OUT OF SPECIFICATION LIMITS |
|---|---|
| ASPHALT BINDER CONTENT[1] | -0.30% TO 0.30% |
| 1/2 INCH (12.5 MM) SIEVE[1] | -6% TO 6% |
| NO. 4 (4.75 MM) SIEVE[1] | -5% TO 5% |
| NO. 8 (2.36 MM) SIEVE[1] | -4% TO 4% |
| NO. 200 (75 M) SIEVE[1] | -2.0% TO 2.0% |
| AIR VOIDS[2] | 2.5% TO 4.5% |
| MSG[3] | -0.012 TO 0.012 |
| F/A[4] | 1.2 MAX |
| VMA | 11.5 MIN |

[1] DEVIATION FROM THE JMF.
[2] FOR DESIGN AIR VOIDS OF 3.5%. USE A GYRATORY COMPACTOR.
[3] DEVIATION FROM THE MTD.
[4] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[5] DO NOT FOLLOW THE MINIMUM 7% RETAINED DURING PRODUCTION PER 403.06.F.5.

FOLLOW REQUIREMENTS OF 446 AND REPLACE MSG COMPARISON IN TABLE 403.10-1 WITH 0.012.

FOR INFORMATION ONLY AND WHEN REQUESTED BY THE DEPARTMENT UP TO FIVE DIFFERENT PRODUCTION DAYS, HOT-COMPACT 10 GYRATORY SPECIMENS PER SUPPLEMENT 1033. DO NOT TEST THESE PILLS.

NOTIFY ERIC BIEHL - OMM 614-275-1380 AND JULIA MILLER OCA 614-466-3165 TWO WEEKS PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT. YOU MAY EMAIL THEM AS WELL.

**PLACEMENT** - ENSURE THE COMPACTION DEPTH OF ANY ONE LAYER IS A MINIMUM OF 4.0 INCHES AND A MAXIMUM OF 6.0 INCHES. IF THE PLAN THICKNESS IS 6.0 TO 7.75 INCHES, THE 302 MAY BE PLACED IN TWO LIFTS IF REQUESTED BY THE CONTRACTOR.

**DENSITY ACCEPTANCE** - FOLLOW THE REQUIREMENTS OF 446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE, INCLUDING JOINT CORES, EXCEPT AS MODIFIED BELOW:

OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.

OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE'S CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THEMAT.

PAY FACTORS FOR EACH LIFT OF 302 APP WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (CONT.)

| MEAN OF LOT CORE DENSITY[1] | PAY FACTOR 302, APP |
|---|---|
| >98.0% | [2] |
| >97.0% TO 98.0% | [3] |
| 93.0% TO 97.0% | 1.00 |
| 92.0% TO 92.9% | 0.90 |
| 91.0% TO 91.9% | 0.80 |
| 90.0% TO 90.9% | 0.70 |
| <90.0% | [4] |

[1] MEAN OF CORES AS PERCENT OF AVERAGE MSG FOR THE PRODUCTION DAY.
[2] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.
[3] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.70.
[4] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.

IF MATERIAL IS REMOVED AND REPLACED THE CONTRACTOR WILL REMOVE AND REPLACE THIS COURSE AND ALL COURSES PAVED ON THIS COURSE.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (447), AS PER PLAN, PG76-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINMUM 60% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE. AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO ACBFS OR TRAP ROCK FROM ONTARIO. TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION.

WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.2 PERCENT. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF C&MS 442.

STORM PIPES

THE FOLLOWING STORM PIPES WITHIN THE PAVEMENT LIMITS WILL NOT BE ABLE TO REACH THE RECOMMENDED 12" COVER AND WILL REQUIRE CHEMICAL STABILIZATION TO BE OMMITED AND THE POOR SUBGRADE SOILS TO BE UNDERCUT AND REPLACE WITH STONE AND GEOGRIDE.

BD002A: P-56, P-57
BD002B: P-154, P-155, P161, AND P-209
BD002C: P-402, P-407

**ENVIRONMENTAL**

EXISTING MONITORING WELLS

EXISTING MONITORING WELLS MAY BE PRESENT WITHIN THE LIMITED ACCESS OR HARVARD AVENUE RIGHT OF WAY AT THE BP GAS STATION AT 4910 HARVARD AVENUE, NEWBURGH HEIGHTS. THE CONTRACTOR SHALL AVOID IMPACTS TO THE MONITORING WELLS. IF DEEP EXCAVATION IS REQUIRED ADJACENT TO THIS SITE A PRE-CERCLA SCREENING WILL BE REQUIRED.

ASBESTOS

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST SURVEYED THE FOLLOWING STRUCTURES.

1. CHARD PEDESTRIAN BRIDGE OVER I-77 (SFN 1806548)
2. MORGANA RUN BRIDGE CARRYING I-77 OVER MORGANA RUN (SFN 1806572)
3. RUFFINI COURT BRIDGE CARRYING I-77 OVER RUFFINI COURT (SFN 1806610)
4. RETAINING WALLS BETWEEN STA 99+00 THROUGH STA 174+00 (SEE ASBESTOS REPORT FOR EXACT LOCATIONS)

THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURES AND RETAINING WALLS. ODOT SHALL PROVIDE A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO ONE OF THE ADDRESSES BELOW AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

ASBESTOS PROGRAM OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216-1049

ASBESTOS PROGRAM OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43215

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. COPIES OF THE OEPA FORM AND BRIDGE INSPECTION REPORT ARE AVAILABLE FOR REVIEW AT [THE ODOT DISTRICT 12 OFFICE, 5500 TRANSPORTATION BLVD., GARFIELD HEIGHTS, OHIO 44125. BASIS FOR PAYMENT THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

EXCAVATION AT PARCEL 131-13-002

SOILS AT CLEVELAND CLIFFS STEELWORKS RAILWAY INC (F.K.A. CLEVELAND ISG WORKS WHEELING), AUDITOR PARCEL NUMBER 131-13-002, ARE ABOVE THE VAP RESIDENTIAL STANDARDS. ANY EXCAVATED MATERIALS FROM THIS PROPERTY MAY BE REUSED IN THE PROJECT. IF THESE MATERIALS CAN'T BE REUSED ON THE PROJECT, THEY ARE TO BE DISPOSED OF AS A SOLID WASTE. ALL EXTRA COSTS FOR OFF SITE DISPOSAL, IF REQUIRED, SHALL BE THE RESPONSILITY OF THE CONTRACTOR.

ECOLOGICAL

1) ENSURE IMPACTS TO THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT ARE AVOIDED AND MINIMIZED. DO NOT REMOVE TREES FROM APRIL 1 THROUGH SEPTEMBER 30. PERFORM ALL NECESSARY TREE REMOVAL FROM OCTOBER 1 THROUGH MARCH 31. DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

2) IT IS THE INTENT OF THE PROJECT TO MINIMIZE TREE CLEARING ACTIVITIES AND EARTH DISTURBED AREAS TO THE EXTENT POSSIBLE. THE CONTRACTOR SHALL LIMIT TREE CUTTING AND CLEARING ACTIVITIES TO THAT REQUIRED TO CONSTRUCT THE PROJECT. FOR FENCE REPLACEMENT AREAS BEYOND THE CONSTRUCTION LIMITS, THE CONTRACTOR SHALL LIMIT TREE CUTTING AND CLEARING ACTIVITIES TO A 10' SWATH WIDTH, SEE NOTE "RENCE REMOVAL AND REPLACEMENT". THE CONTRACTOR SHALL MARK ALL TREES TO BE REMOVED FOR APPROVAL BY THE ENGINEER PRIOR TO PERFORMING TREE CUTTING ACTIVITIES.

PERMITS - WATERWAY PERMITS

1) ODOT WILL OBTAIN ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK WITHIN THE JURISDICTIONAL BOUNDARY OF ANY WATERWAY, INCLUDING WETLANDS, AND ALL WATERWAY PERMIT SPECIAL PROVISIONS WILL BE NOTED UNDER SPECIAL PROVISIONS IN THE PLANS AND ADHERED TO DURING CONSTRUCTION.

2) DO NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL ODOT OBTAINS THE NECESSARY WATERWAY PERMIT(S). WORK INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.

3) THE CONTRACTOR SHALL ADHERE TO ALL APPROPRIATE WATERWAY PERMIT SPECIAL PROVISIONS THROUGHOUT CONSTRUCTION.

SECTION 4(F)

1) THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING MORGANA RUN TRAIL TO E49TH STREET AT ALL TIMES DURING CONSTRUCTION. DURING CONSTRUCTION OF THE EAST MULTI-USE PATH THE CONTRACTOR SHALL UTILIZE FLAGGERS AND/OR PARTIAL WIDTH CLOSURES, AS APPROVED BY THE ENGINEER TO MAINTAIN ACCESS ALONG THE EXISTING MORGANA RUN TRAIL.

2) TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG THE CONSTRUCTION LIMITS ADJACENT TO THE EXISTING MORGANA RUN TRAIL PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING 4(F) PROPERTY AND THE PUBLIC. SEE MT-110.10 FOR DETAILS OF THE FENCING.

3) APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE MORGANA RUN TRAIL OF CONSTRUCTION ACTIVITIES, AND ACCESS RESTRICTIONS.

4) THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND THE OFFICIAL WITH JURISDICTION (OWJ) PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE OWJ CONTACT INFORMATION IS:

FRANK D. WILLIAMS, MPA
CITY OF CLEVELAND
DIRECTOR, PUBLIC WORKS
FWILLIAMS3@CLEVELANDOHIO.GOV
PHONE 216-664-2485
MOBILE 216-857-1815

COORDINATION WITH CLEVELAND WATER POLLUTION CONTROL
(FOR SEWERS WITHIN THE CLEVELAND WATER POLLUTION CONTROL)

1. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER POLLUTION CONTROL (WPC) PRIOR TO THE START OF CONSTRUCTION AT 216-664-2756.
2. THE CONTRACTOR IS REQUIRED TO SUBMIT SEWER SHOP DRAWINGS TO WPC PRIOR TO THE SEWER INSTALLATION. THE DRAWINGS SHOULD INCLUDE THE SEWER PIPES, MANHOLES, CATCH BASINS AND OTHER SEWER APPURTENANCES.
3. WPC WILL INSPECT THE CITY SEWER INSTALLATION.
4. THE PROPOSED CITY SEWERS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY WPC. ANY DEVIATIONS FROM THE APPROVED PLANS OR SPECIFICATIONS REQUIRE A NEW SUBMITTAL REFLECTING THE CHANGES. UPON REVIEW OF THE REVISED ITEMS, WPC WILL REISSUE A NEW APPROVAL. IT IS STRICTLY PROHIBITED TO CONSTRUCT ANY CITY SEWERS UNLESS THEY ARE APPROVED BY WPC.
5. UPON COMPLETION OF THE CITY SEWER INSTALLATION, THE CONTRACTOR IS REQUIRED TO SUBMIT AS-BUILT PLANS AND A VIDEO TAPED COPY OF THE NEW CITY SEWERS. WPC RESERVES THE RIGHT NOT TO APPROVE ANY CITY SEWER THAT DOES NOT MEET THE CITY REQUIREMENTS.
6. ALL EXISTING CITY CATCH BASIN CONNECTIONS SHOULD BE TELEVISED BY THE CONTRACTOR, AND INSPECTED AND APPROVED BY WPC INSPECTOR PRIOR TO THEIR REUSE.
7. THE DIVISION OF WATER POLLUTION CONTROL (WPC) WILL COLLECT ALL CITY SEWER CASTINGS INCLUDING CATCH BASIN FRAMES AND GRATES, AND MANHOLE FRAMES AND COVERS, FOR ALL EXISTING CATCH BASINS THAT NEED TO BE ABANDONED OR REMOVED AND EXISTING MANHOLE COVERS THAT NEEDS TO BE REPLACED. THE CONTRACTOR SHALL DESIGNATE A LOCATION WHERE ALL SEWER CASTINGS ARE TO BE STORED AND SHALL COORDINATE WITH WPC FOR THE COLLECTIONS OF ALL SEWER CASTINGS STORED IN THE DESIGNATED LOCATION.
8. CONSTRUCTION STANDARDS FOR WPC SEWERS:

A. ALL PIPES 18" IN DIAMETER AND SMALLER SHALL BE VCP, C-700 EXTRA STRENGTH WITH PREMIUM JOINTS AS PER ODOT 706.08.
B. ALL PIPES 21" IN DIAMETER AND LARGER SHALL BE RCP. CLASS 3 WITH PREMIUM JOINTS AS PER ODOT 706.02.
C. ALL PIPES WITH LESS THAN 3' OF COVER SHALL BE DUCTILE IRON PIPE ANSI CLASS 52, WITH PUSH ON JOINTS AND FITTING.
D. THE REPAIR OF ALL DISTURBED CITY BRICK SEWERS SHOULD BE COORDINATED WITH WPC ENGINEER.
E. FOR THE SEWER CONNECTION REPAIR, THE FOLLOWING GUIDELINES SHALL BE USED:

A. REPAIR ALL DAMAGED SEWER CONNECTIONS IN KIND.
B. USE VCP FOR ALL REPAIRED/RELOCATED SEWER CONNECTIONS.
C. ALL SEWER REPAIRED/RELOCATED CONNECTIONS SHOULD BE LAID AT NO LESS THAN 1% GRADE.
D. THE MINIMUM SIZE FOR A SEWER CONNECTION SHOULD BE 6".
E. A MINIMUM COVER OF 3 FEET IS REQUIRED FOR ALL PROPOSED SEWER CONNECTIONS.
F. A 6" VCP TEST TEE MAY BE REQUIRED FOR A RELOCATED SEWER CONNECTION.
G. NO HORIZONTAL BENDS ARE ALLOWED FOR SEWER CONNECTIONS.

PAYMENT FOR WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT BID ITEMS.

For Preliminary Plans Only

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 02/15/22
PROJECT ID 105743
SHEET P.27 TOTAL P.1135

CUY-77-11.43 - PART 1
MODEL: GN3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:06:57 PM USER: kperkins
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## MAINTENANCE OF TRAFFIC

ITEM 614, MAINTAINING TRAFFIC

I.R. 77 NORTHBOUND AND SOUTHBOUND (PREPHASE, 2027)
A MINIMUM OF 3 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES USING ITEM 614. REDUCTIONS TO THE NUMBER OF LANES WILL BE PERMITTED PER THE PLCS. SEE THE PLCS NOTE FOR MORE DETAILS. SEE NOTE "IR-77 FULL CLOSURES" FOR DETAILS OF PERMITTED FULL CLOSURES OF I-77 NORTHBOUND AND/OR SOUTHBOUND DURING THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLANS AND PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

I.R. 77 NORTHBOUND AND SOUTHBOUND (PHASE 1-3)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES USING ITEM 614. REDUCTIONS TO THE NUMBER OF LANES WILL BE PERMITTED PER THE PLCS. SEE THE PLCS NOTE FOR MORE DETAILS. SEE NOTE "IR-77 FULL CLOSURES" FOR DETAILS OF PERMITTED FULL CLOSURES OF I-77 NORTHBOUND AND/OR SOUTHBOUND DURING THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLANS AND PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PRE-PHASE, 2027)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE CURB LANES OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CURB RAMP WORK ALONG THE SOUTH EDGE OF GRANT AVENUE. DURING THE CURB LANE CLOSURE THE SOUTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED VIA TEMPORARY CURB RAMPS AND CROSSWALKS AS SHOWN ON SHEETS XX. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 1B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A3. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED VIA TEMPORARY CURB RAMPS AND CROSSWALKS AS SHOWN ON SHEETS XX . A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 3B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A4. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED VIA TEMPORARY CURB RAMPS AND CROSSWALKS AS SHOWN ON SHEETS XX . A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 10 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE NORTHBOUND ENTRANCE (RAMP A4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP A4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B4 (HARVARD AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 7 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 20 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND EXIT (RAMP B1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A1 (GRANT AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND ENTRANCE (RAMP B4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP B4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A4 (GRANT AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVENUE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE
ALL EXISTING LANES SHALL BE OPEN AT ALL TIMES WITH THE EXCEPTION OF THE WESTBOUND CURB LANE MAYBE CLOSED WITH DRUMS PER MT-95.31 DURING OFF PEAK HOURS TO COMPLETE INSTALLATION OF NEW PEDESTRIAN SIGNALS AT RAMP C3. PEDESTRIAN SIGNALS SHALL BE INSTALLED CONCURRENTLY WITH THE PERMITTED RAMP C3 CLOSURE.

FLEET AVENUE SOUTHBOUND EXIT (RAMP C2)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP C2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT), RAMP B4 (HARVARD AVENUE NB ENTRANCE) AND RAMP C1 (FLEET AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND EXIT (RAMP C1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP C1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT), RAMP D2 (PERSHING AVENUE SB ENTRANCE) AND RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND ENTRANCE (RAMP C3)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

EAST 49TH STREET
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC EXCEPT FOR A PERIOD NOT TO EXCEED 3 CALENDAR DAYS WHEN THE ROAD MAY BE CLOSED PER MT-101.60 TO COMPLETE DEMOLITION AND REMOVAL OF THE CHARD AVENUE PEDESTRIAN BRIDGE. LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES. DURING OFF PEAK HOURS TWO-WAY TRAFFIC SHALL BE MAINTAINED WITH FLAGGERS PER MT-97.10 TO COMPLETE RETAINING WALL REHABILITATION.

EAST 48TH STREET
TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. DURING OFF PEAK HOURS TWO-WAY TRAFFIC SHALL BE MAINTAINED WITH FLAGGERS PER MT-97.10.

CHARD AVENUE PEDESTRIAN BRIDGE/PEDESTRIAN TRAFFIC
THE CHARD AVENUE PEDESTRIAN BRIDGE SHALL REMAIN OPEN AND OPERATIONAL UNTIL THE ENGINEER PROVIDES PERMISSION TO CLOSE THE BRIDGE AND DETOUR PEDESTRIAN TRAFFIC PER SHEET XX. IT IS THE INTENT OF THE PROJECT TO COMPLETE THE NEW CONNECTION FROM MORGANA RUN TRAIL/EAST 49TH STREET TO EAST 48TH STREET TO SIGNIFICANT COMPLETION PRIOR TO CLOSING/DEMOLISHING CHARD ROAD PEDESTRIAN BRIDGE TO MINIMIZE PEDESTRIAN DETOUR DURATIONS. DUE TO VERTICAL CLEARANCES THE CHARD ROAD PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE REMOVED PRIOR TO SHIFTING TRAFFIC LANES WESTWARD AND IS SHOWN REMOVED IN PHASE 1B WHEN RAMP C2 IS CLOSED. DURING PHASE 3 THE TRAIL UNDER 77 MAY BE CLOSED AND TRAFFIC DETOURED PER SHEET XX TO COMPLETE THE EAST END OF THE NEW MORGANA STRUCTURE. THE EXISTING TRAILHEAD FROM EAST 49TH STREET TO MORGANA RUN TRAIL SHALL REMAIN OPEN AT ALL TIMES.

RUFFINI COURT
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC WITH THE EXCEPTION THAT DURING OFF PEAK PERIODS (AS APPROVED BY THE ENGINEER) LANE CLOSURES WITH FLAGGERS PER MT-97.10 ARE PERMITTED AND FOR A PERIOD NOT TO EXCEED 7 DAYS THE ROAD MAY BE CLOSED PER MT-101.60. A SIGNED DETOUR ROUTE WILL NOT BE PLACED HOWEVER A PCMS WILL BE PLACED AT E49TH DIRECTING TRAFFIC TO HEIDTMAN PARKWAY WITH A PHONE NUMBER PER THE EXISTING TRUCK ACCESS SIGNAGE THAT IS PRESENT.

PERSHING AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 5 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE NORTHBOUND EXIT (RAMP D1)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP D1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP E1 (BROADWAY AVENUE NB EXIT) OR RAMP C1 (FLEET AVENUE NB EXIT. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS EACH WHEN THE CURB LANE OF BROADWAY AVENUE EASTBOUND MAY BE CLOSED PER MT-95.40. CURB LANE CLOSURE SHALL BE IN PLACE CONCURRENTLY WITH THE PERMITTED RAMP CLOSURE OF RAMP E1. DURING THE CURB LANE CLOSURE THE SIDEWALK ADJACENT THE LANE CLOSURE SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED PER MT-110.10 VIA THE EXISTING SIGNALIZED CROSSINGS OF BROADWAY AVENUE AT DILLE AVENUE AND FINN AVENUE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE NORTHBOUND EXIT (RAMP E1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. RAMP E1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $XX PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

IR-77 ALTERNATE ROUTE (PRE-PHASE 1) (IR-77, IR 480, IR-490, SR 176)
TO COMPLETE MODIFICATIONS TO OVERHEAD SIGNAGE AS SHOWN IN FULL CLOSURE DETOUR PLAN USE LANE CLOSURES PER THE PLCS. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

GENERAL:

ALL EXISTING LANES, INCLUDING RAMPS SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN OCTOBER 15 AND APRIL 1 UNLESS OTHERWISE APPROVED BY THE ENGINEER. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED PER THE LANE VALUE CONTRACT TABLE.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

| | |
|---|---|
| NEW YEARS (OBSERVED) | GENERAL/REGULAR ELECTION DAY (NOV) |
| MEMORIAL DAY | FOURTH OF JULY(OBSERVED) |
| LABOR DAY | THANKSGIVING |
| CHRISTMAS (OBSERVED) | |

ON THE DATES OF SPECIAL EVENTS IN DOWNTOWN CLEVELAND WITH SEATING CAPACITY OF 10,000 OR MORE.

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

| DAY OF HOLIDAY OR SPECIAL EVENT: | TIME ALL LANES MUST BE OPEN TO TRAFFIC: |
|---|---|
| SUNDAY | 12:00N FRIDAY THROUGH 6:00 AM |
| MONDAY | 12:00N FRIDAY THROUGH 6:00 AM TUESDAY |
| TUESDAY | 12:00N MONDAY THROUGH 6:00 WEDNESDAY |
| GEN./REG. ELECTION | 5:00AM TUESDAY THROUGH 12:00AM WEDNESDAY |
| WEDNESDAY | 12:00N TUESDAY THROUGH 6:00AM THURSDAY |
| THURSDAY | 12:00N WEDNESDAY THROUGH 6:00AM FRIDAY |
| THANKSGIVING ONLY | 6:00AM WEDNESDAY THROUGH 6:00AM MONDAY |
| FRIDAY | 12:00N THURSDAY THROUGH 6:00 AM MONDAY |
| SATURDAY | 12:00N FRIDAY THROUGH 6:00AM MONDAY |

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

| ITEM: | DURATION OF CLOSURE: | SIGN DISPLAYED TO PUBLIC: |
|---|---|---|
| RAMP & ROAD CLOSURES | > 2 WEEKS | 14 CALENDAR DAYS PRIOR TO CLOSURE |
| | > 12 HOURS & < 2 WEEKS | 7 CALENDAR DAYS PRIOR TO CLOSURE |
| | < 12 HOURS | 2 BUSINESS DAYS PRIOR TO CLOSURE |

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

For Reference Only
Preliminary Plans - Not

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.28 TOTAL P.1135



MODEL: Sheet1 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:04 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

ITEM 614, MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

| | | |
|---|---|---|
| ITEM 410, | TRAFFIC COMPACTED SURFACE, TYPE A OR B | ____ CU. YD. |
| ITEM 410, | TRAFFIC COMPACTED SURFACE, TYPE C | ____ CU. YD. |
| ITEM 614, | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | ____ CU. YD. |
| ITEM 616, | WATER | ____ M. GAL. |

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 DURING PERIODS IN WHICH THE ROADS ARE CLOSED TO TRAFFIC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS

PORTIONS OF THE MOT PLANS AS DESCRIBED BELOW HAVE APPROVED MOT EXCEPTION(S) PER TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

APPROVED MOT EXCEPTION(S) INCLUDE:
-REDUCTION OF I-77 THRU LANES FROM 3 TO 2 IN EACH DIRECTION. REDUCTION SHALL APPLY TO PHASE 1, 2 AND 3 OF MAINTENANCE OF TRAFFIC AS NOTED IN THE PLAN SET.

-FULL CLOSURES OF I-77 TO COMPLETE REMOVAL OF CHARD AVENUE PEDESTRIAN BRIDGE, REMOVAL AND REPLACEMENT OF OVERHEAD SIGNS AND SUPPORTS, AND OPEN TRENCHING OF NEORSD SANITARY SEWER NEAR GRANT. 77 TRAFFIC SHALL BE DETOURED AS SHOWN IN THE PLAN SET.

A MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD A MINIMUM OF 30 CALENDAR DAYS PRIOR TO IMPLEMENTATION OF EACH APPROVED MOT EXCEPTION. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER AND [__INSERT_ APPLICABLE_LOCAL_AGENCY(IES)__] AS WELL AS THE CONTRACTOR, WORKSITE TRAFFIC SUPERVISOR (WTS) AND ANY SUBCONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL.

IN ADDITION TO ANY NOTIFICATIONS REQUIRED IN OTHER NOTES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE SO THAT THE PROJECT ENGINEER CAN SEND EMAIL NOTIFICATION TO THE OFFICE OF ROADWAY ENGINEERING, STATEWIDE TMC, DWZTM AND SPECIAL HAULING PERMITS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE. REFERENCE "EXCEPTION REQUEST APPROVAL DATED [__/__/____] FOR PID 105743" IN THE NOTIFICATION AND OTHER CORRESPONDENCE.

ANY CHANGES TO THE MOT THAT IMPACT THE PREVIOUSLY APPROVED MOT EXCEPTION(S) LISTED ABOVE SHALL BE APPROVED IN WRITING BY THE MOT EXCEPTION COMMITTEE (MOTEC). IN THE EVENT THAT SUCH CHANGES ARE PROPOSED, THE REQUEST SHALL BE COORDINATED THROUGH THE DISTRICT WORK ZONE TRAFFIC MANAGER (DWZTM) A MINIMUM OF 30 CALENDAR DAYS PRIOR TO THE DESIRED IMPLEMENTATION DATE. IF THE DISTRICT AGREES WITH THE PROPOSED CHANGES THE DWZTM SHALL SEEK APPROVAL FROM THE MOTEC. IN THE EVENT THE PROPOSED CHANGES ARE APPROVED IN WRITING, THE CLOSURES ARE STILL SUBJECT TO NOTIFICATION REQUIREMENTS WITHIN THIS NOTE PRIOR TO IMPLEMENTATION.

LANE VALUE CONTRACT TABLE

| LANE/RAMP | DIRECTION | LANES | RESTRICTED TIME PERIOD | TIME UNIT | DISINCENTIVE (PER TIME UNIT PER LANE) |
|---|---|---|---|---|---|
| IR-77 | | | | | |
| IR-77 | NB | 3 | AS PER THE PERMITTED LANE CLOSURE SCHEDULE AND MOT POLICY EXCEPTIONS | EACH MINUTE | $325 |
| | SB | | | | |

IR-77 FULL CLOSURES

FOR SELECT OPERATIONS THE FULL CLOSURE OF IR 77 NORTHBOUND AND/OR IR 77 SOUTHBOUND WILL BE REQUIRED. THE FOLLOWING OPERATIONS SHALL BE CONSIDERED.

-DEMOLITION/REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE
-REMOVAL OF EXISTING OVERHEAD SIGN SUPPORTS
-ERECTION OF PROPOSED OVERHEAD SIGN SUPPORTS AND SIGNS
-SELECT PAVEMENT, DRAINAGE, AND TRAFFIC CONTROL OPERATIONS AS APPROVED BY THE ENGINEER.

IR77 SHALL BE CLOSED PER MT-99.50 AND DETOURED AS SHOWN ON SHEETS XX-XX. ENTRANCE RAMPS SHALL BE CLOSED AT THE SIDE ROAD PER MT-101.60 AND MT-98.30 IF DEDICATED TURN LANES ARE PRESENT. EXIT RAMPS SHALL ALSO BE CLOSED AT THE SIDE ROAD PER MT-101.60. FULL CLOSURES SHALL NOT OCCUR DURING HOLIDAYS OR SPECIAL EVENTS AS OUTLINE IN THE PLAN NOTES. CLOSURES SHALL BE LIMITED TO 8PM FRIDAY NIGHT TO 5AM MONDAY MORNING. CLOSURES EXTENDING BEYOND THE SPECIFIED LIMIT SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127). LEOS WITH MARKED PATROL CARS SHALL BE PRESENT TO COMPLETE THE CLOSURES.

THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER A REQUEST TO COMPLETE A FULL CLOSURE THIRTY (30) DAYS PRIOR TO THE DESIRED CLOSURE. THE REQUEST SHALL PROVIDE THE DETAILS OF WHAT FACILITIES WILL BE CLOSED, WORK TO BE COMPLETED, ANTICIPATED WORK DURATION AND WHEN FACILITIES WILL BE REOPENED. SEE "APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS" NOTE FOR MORE DETAILS.

RAMP CLOSURES FOR RESURFACING

THE CONTRACTOR MAY CLOSE INTERCHANGE RAMPS TO COMPLETE RESURFACING OPERATIONS (MILLING, PAVING, STRIPING). THE CLOSURES SHALL BE LIMITED TO THE HOURS OF 9PM TO 5AM AND WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. DETOUR ROUTES SHALL BE AS SHOWN IN THE PROJECT PLANS.

THE MOTORING PUBLIC SHALL BE GIVEN ADVANCE WARNING OF CLOSURES AT LEAST 72 HOURS IN ADVANCE THROUGH THE USE OF A PORTABLE CHANGEABLE MESSAGE SIGN. AN LEO WITH PATROL CAR (PAID FOR SEPARATELY) SHALL BE USED FOR EACH RAMP CLOSURE AND BE PRESENT FOR THE ENTIRE CLOSURE TIME.

FREEWAY ENTRANCE RAMPS SHALL BE CLOSED PER MT-101.60 WITH A PCMS DISPLAYING THE RECOMMENEDED DETOUR ROUTE.

FREEWAY EXIT RAMPS SHALL BE CLOSED WITH A PCMS ROUTING TRAFFIC TO THE NEXT EXIT AND A SECOND PCMS INDICATING A U-TURN AT THE EXIT, UNLESS DIRECTED DIFFERENTLY BY THE PROJECT ENGINEER.

FOR RAMP CLOSURES, ONE OR TWO ADDITIONAL PCMS UNITS WIL BE NEEDED AS DESCRIBED ABOVE. THESE WILL BE IN ADDITION TO THE PCMS UNITS SPECIFIED IN THE PLANS AND SHALL BE INCLUDED FOR PAYMENT IN ITEM 614 - MAINTAINING TRAFFIC.

SEQUENCE OF CONSTRUCTION

PRE-PHASE (2027) (SEE SHEETS XX-XX)

WORK THIS PHASE:

IR-77 NORTHBOUND
-REMOVE EXISTING CURB, BARRIERS, GUARDRAILS AND INCIDENTALS NECESSARY TO COMPLETE CONSTRUCTION OF TEMPORARY SWALES AND TEMPORARY PAVEMENTS ON THE OUTSIDE OF THE NORTHBOUND SHOULDER.
- BUILD TEMPORARY SWALES, TEMPORARY PAVEMENT, TEMPORARY DRAINAGE SYSTEMS AND INCIDENTALS NECESSARY FOR PHASE 1 NORTHBOUND TRAFFIC PATTERN CHANGES.
-REMOVE EXISTING MEDIAN BARRIER AND INSTALL TEMPORARY CROSSOVERS.
-REMOVE EXISTING DMS TRUSS/SIGN NEAR FLEEET AVENUE AND INSTALL NEW DMS SIGN SOUTH OF CSX OVERPASS.

IR-77 SOUTHBOUND
-BEGIN CONSTRUCTION OF PROPOSED RETAINING WALLS
-BEGIN CONSTRUCTION OF PROPOSED STORM SEWER MAIN AND SYSTEM.
-REMOVE EXISTING MEDIAN BARRIER AND INSTALL CROSSOVERS.
-RESTORE EXISTING DRAINAGE FEATURES, PAVEMENT AND OTHER INCIDENTAL ITEMS DISTRUBED BY THE ABOVE WORK SO TRAFFIC CAN BE MAINTAINED IN FUTURE PHASES.

GRANT AVENUE
-COMPLETE REPAIRS TO THE EXISTING BRIDGE PARAPETS AND CURB RAMPS ALONG THE SOUTH SIDE OF GRANT AVENUE.

MAINTENANCE OF TRAFFIC:

IR-77 NORTHBOUND
-CLOSE THE OUTSIDE SHOULDER WITH PORTABLE BARRIER PER MT-95.45 AND USE OFF PEAK LANE CLOSURES PER THE PLCS AND MT-95.30.
-MAINTAIN INTERCHANGE RAMPS PER MT-98.10, MT-98.20, MT-98.21, MT-98.22 AND MT-98.28.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF OVERHEAD TRUSS SUPPORTS AS NOTED IN THE PLANS.

IR-77 SOUTHBOUND
-CLOSE THE OUTSIDE SHOULDER WITH PORTABLE BARRIER PER MT-95.45 AND USE OFF PEAK LANE CLOSURES PER THE PLCS AND MT-95.30.
-MAINTAIN INTERCHANGE RAMPS PER MT-98.10, MT-98.20, MT-98.21, MT-98.22 AND MT-98.28.
-CLOSE RAMPS AS PERMITTED PER MT-98.29, MT-98.30 AND MT-101.60.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF OVERHEAD TRUSS SUPPORTS AS NOTED IN THE PLANS.

GRANT AVENUE
-CLOSE THE EASTBOUND CURB LANE WITH PORTABLE BARRIER PER MT-95.41 AND AS MODIFIED IN THE PLAN SET.
-CLOSE THE WESTBOUND CURB LANE WITH DRUMS PER MT-95.31 AND AS MODIFIED IN THE PLAN SET.
-CLOSE THE SOUTH SIDEWALK AND DETOUR PEDESTRIANS TO THE NORTH SIDEWALK AS SHOWN IN THE PLANS. DETOUR WILL REQUIRE TEMPORARY CURB RAMPS, PEDESTRIAN SIGNALS AND CROSSWALKS PER MT-110.10.
-MAINTAIN RAMP A1 AND A2 PER MT-98.28 AND MT-98.10.

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 1 (2028) (SEE SHEETS XX -XX)

WORK THIS PHASE:

IR-77 SOUTHBOUND
- REMOVE THE WESTERN PORTION OF THE EXISTING MAINLINE PAVEMENT AND SOUTHBOUND INTERCHANGE RAMPS.
-REMOVE/ABANDON PORTIONS OF THE EXISTING DRAINAGE SYSTEM THAT ARE NO LONGER NEEDED.
-REMOVE EXISTING LIGHTING, TRAFFIC CONTROL AND OTHER INCIDENTALS WITHIN THE PHASE WORK LIMITS OR OTHERWISE IDENTIFIED IN THE PLANS.
- BEGIN CONSTRUCTION OF NEW SOUTHBOUND MAINLINE PAVEMENT AND INTERCHANGE RAMPS. SEE BELOW FOR RAMP SEQUENCING IN PHASE 1.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE PER PLAN DETAILS ON NEW FULL DEPTH FLEXIBLE PAVEMENTS.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-COMPLETE RETAINING WALLS ALONG SB I-77.
-REMOVE WESTERN PORTIONS OF THE EXISTING MORGANA RUN BRIDGE AND COMPLETE THE NEW PEDESTRIAN UNDERPASS.
-COMPLETE CONSTRUCTION OF THE NEW SLAVIC VILLAGE DOWNTOWN CONNECTOR TRAIL (SVDC) FROM EAST 48TH STREET TO THE MORGANA RUN TRAIL/EAST 49TH STREET TRAILHEAD.
-REMOVE THE CHARD ROAD PEDESTRIAN BRIDGE.
-REMOVE PORTIONS OF THE I-77 OVERPASS AT RUFFINI COURT.

MAINTENANCE OF TRAFFIC:

IR-77 SOUTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING CONTRAFLOW OPERATION ON THE EXISTING PAVEMENT AND TEMPORARY CROSSOVERS COMPLETED IN PRE-PHASE. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE AND OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

IR-77 NORTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING EXISTING PAVEMENT AND ITEM 615-PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE AND OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

INTERCHANGE RAMP SEQUENCE OF CONSTRUCTION
MAINTENANCE OF TRAFFIC PLANS FOR THE PROJECT DEPICT THREE SUBPHASES DURING PHASE 1. NORTHBOUND I-77 REMAINS THE SAME IN ALL THREE SUBPHASES. SOUTHBOUND I-77 HAS THREE CONDITIONS SHOWN IN THE SUBPHASES. PHASE 1A SHOWS THE SOUTHBOUND CONTRAFLOW MOT SCENARIO WITH ALL EXISTING INTERCHANGE RAMPS OPEN AND USING EXISTING PAVEMENT TO MAINTAIN RAMP TRAFFIC. PHASE 1B SHOWS THE SAME MAINLINE CONTRAFLOW SCENARIO (EXCEPT NEAR THE NORTH PROJECT LIMIT) BUT ALL THE RAMPS ARE SHOWN CLOSED. CLOSURE OF ALL RAMPS CONCURRENTLY WILL NOT BE PERMITTED. SUBPHASE 1B DEPICTS THE MOT COUNTERMEASURES REQUIRED AT A RAMP DURING ALLOWABLE CLOSURES. PHASE 1C SHOWS THE MAINLINE CONTRAFLOW SCENARIO AND THE MOT FOR INTERCHANGE RAMPS WHEN THEY ARE REOPENED AND TRAFFIC IS DRIVING ON PROPOSED COMPLETED PAVEMENTS PRIOR TO SHIFTING TO PHASE 2. BASED ON SEQUENCING OF RAMPS ELEMENTS FROM PHASE 1A, 1B AND 1C MAY BE IN PLACE CONCURRENTLY.

INTERCHANGE RAMPS SEQUENCING HAS BEEN ESTABLISHED TO AVOID OVERLAP OF DETOUR ROUTES FROM CONCURRENT CLOSURES, MAXIMIZE CLOSURE DURATION TO ALLOW FOR COMPLETION OF ALL SOUTHBOUND RAMPS IN PHASE 1 AND ACCOUNTS FOR ELEVATION DIFFERENTIAL BETWEEN PROPOSED AND EXISTING PAVEMENTS AT THE PHASE JOINT. THE FOLLOWING SEQUENCE IS ASSUMED IN THE PLANS. IF A DIFFERENT SEQUENCE IS DESIRED THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL AND DEMONSTRATE HOW DETOUR ROUTES AND ELEVATION DIFFERENTIAL AT THE PHASE CONSTRUCTION JOINT WILL BE ADDRESSED. EACH GROUP WILL HAVE A 45 DAY CLOSURE/DETOUR PERIOD AFTER WHICH THE RAMPS ARE REOPENED UNLESS NOTED OTHERWISE.

GROUP 1 CLOSURES
RAMP A3 (GRANT AVE. SB EXIT)
RAMP B2 (HARVARD AVE. SB ENTRANCE)

GROUP 2 CLOSURES
RAMP C2 (FLEET AVE. SB EXIT)

GROUP 3 CLOSURES
RAMP B3 (HARVARD AVE. SB EXIT)
RAMP D2 (PERSHING AVE. SB ENTRANCE)
*DUE TO THE ELEVATION DIFFERENTIAL AT THE PHASE JOINT GROUP 3 RAMPS WILL NOT REOPEN IN A PHASE 1C CONDITION. WHEN THE RAMPS ARE COMPLETE THE SOUTHBOUND IR-77 AND INTERCHANGE RAMPS SHALL BE SET IN THE PHASE 2 CONDITION TO PROCEED OVER WINTER.

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.29 TOTAL P.1135

CUY-77-11.43 - PART 1
MODEL: Sheet2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:06 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\MOT\Sheets\105743_MN001.dgn

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 1 (2028) (SEE SHEETS XX -XX)

CHARD AVENUE PEDESTRIAN BRIDGE
-CLOSE THE BRIDGE AND DETOUR PEDESTRIAN TRAFFIC TO FLEET AVENUE PER SHEET XX AND MT-110.10
-USE FULL CLOSURE OF I-77 AND EAST 49TH STREET TO COMPLETE REMOVAL OF THE BRIDGE SUPERSTRUCTURE.

PHASE 2 - (2029) (SEE SHEETS XX -XX)

OVERWINTER PERIODS 2028-2029 AND 2029-2030 SHALL FOLLOW PHASE 2 TRAFFIC CONFIGURATIONS SHOWN IN THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

WORK THIS PHASE:

IR-77 SOUTHBOUND
- REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-COMPLETE CONSTRUCTION OF NEW SOUTHBOUND PAVEMENT.
-CONSTRUCT NEW MEDIAN BARRIER. OMIT PORTIONS PER THE PLANS TO ACCOMODATE TEMPORARY CROSSOVERS.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I-77 OVERPASS AT RUFFINI COURT.
-CONSTRUCT PROPOSED OVERHEAD SIGN TRUSS SUPPORTS THAT SPAN SOUTHBOUND I-77.

IR-77 NORTHBOUND
- REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-BEGIN CONSTRUCTION/COMPLETE PORTIONS OF THE NEW NORTHBOUND PAVEMENT AND DRAINAGE SYSTEM.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I-77 OVERPASS AT RUFFINI COURT.

MAINTENANCE OF TRAFFIC:

IR-77 SOUTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC ON THE NEW SOUTHBOUND PAVEMENT. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE PLACEMENT OF OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

IR-77 NORTHBOUND
-SAME AS PHASE 1

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 3 (2030) (SEE SHEETS XX -XX)

WORK THIS PHASE:

IR-77
- REMOVE THE REMAINING PORTION OF THE EXISTING MAINLINE PAVEMENT AND NORTHBOUND INTERCHANGE RAMPS.
-REMOVE/ABANDON PORTIONS OF THE EXISTING DRAINAGE SYSTEM THAT ARE NO LONGER NEEDED.
-REMOVE EXISTING LIGHTING, TRAFFIC CONTROL AND OTHER INCIDENTALS WITHIN THE PHASE WORK LIMITS OR OTHERWISE IDENTIFIED IN THE PLANS.
- COMPLETE CONSTRUCTION OF NEW NORTHBOUND MAINLINE PAVEMENT AND INTERCHANGE RAMPS.
-COMPLETE REMAINING PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-COMPLETE RETAINING WALLS ALONG NB I-77.
-REMOVE REMAINING PORTIONS OF THE EXISTING MORGANA RUN BRIDGE AND COMPLETE THE NEW PEDESTRIAN UNDERPASS.
-COMPLETE CONSTRUCTION OF THE NEW SLAVIC VILLAGE DOWNTOWN CONNECTOR TRAIL (SVDC) FROM EAST 48TH STREET TO THE MORGANA RUN TRAIL/EAST 49TH STREET TRAILHEAD.
-REMOVE REMAINING PORTIONS OF THE I-77 OVERPASS AT RUFFINI COURT.

MAINTENANCE OF TRAFFIC:

IR-77 SOUTHBOUND
-SAME AS PHASE 2.

IR-77 NORTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING CONTRAFLOW OPERATION ON THE PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT AND TEMPORARY CROSSOVERS. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "IR-77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

INTERCHANGE RAMP SEQUENCE OF CONSTRUCTION
MAINTENANCE OF TRAFFIC PLANS FOR THE PROJECT DEPICT THREE SUBPHASES DURING PHASE 3. SOUTHBOUND I-77 REMAINS THE SAME IN ALL THREE SUBPHASES. NORTHBOUND I-77 HAS THREE CONDITIONS SHOWN IN THE SUBPHASES. PHASE 3A SHOWS THE NORTHBOUND CONTRAFLOW MOT SCENARIO WITH ALL EXISTING INTERCHANGE RAMPS OPEN AND USING EXISTING PAVEMENT TO MAINTAIN RAMP TRAFFIC (EXCEPT RAMPS B4 AND C1 SEE BELOW FOR MORE DETAIL) PHASE 3B SHOWS THE SAME MAINLINE CONTRAFLOW SCENARIO BUT ALL THE RAMPS ARE SHOWN CLOSED. CLOSURE OF ALL RAMPS CONCURRENTLY WILL NOT BE PERMITTED. SUBPHASE 3B DEPICTS THE MOT COUNTERMEASURES REQUIRED AT A RAMP DURING ALLOWABLE CLOSURES. PHASE 3C SHOWS THE MAINLINE CONTRAFLOW SCENARIO AND THE MOT FOR INTERCHANGE RAMPS WHEN THEY ARE REOPENED AND TRAFFIC IS DRIVING ON PROPOSED COMPLETED PAVEMENTS PRIOR TO PROJECT COMPLETION. BASED ON SEQUENCING OF RAMPS ELEMENTS FROM PHASE 3A, 3B AND 3C MAY BE IN PLACE CONCURRENTLY.

INTERCHANGE RAMPS SEQUENCING HAS BEEN ESTABLISHED TO AVOID OVERLAP OF DETOUR ROUTES FROM CONCURRENT CLOSURES, MAXIMIZE CLOSURE DURATION TO ALLOW FOR COMPLETION OF ALL NORTHBOUND RAMPS IN PHASE 3 AND ACCOUNTS FOR DIFFERENTIAL BETWEEN PROPOSED AND EXISTING PAVEMENT ELEVATION AT THE PHASE JOINT. THE FOLLOWING SEQUENCE IS ASSUMED IN THE PLANS. SEE MOT PLANS FOR REQUIRED WORK TO ALLOW TRAFFIC TO CROSS THE PHASE JOINT BETWEEN EXISTING AND PERMANENT PAVEMENT. IF A DIFFERENT SEQUENCE IS DESIRED THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL AND DEMONSTRATE HOW DETOUR ROUTES AND ELEVATION DIFFERENTIAL AT THE PHASE CONSTRUCTION JOINT WILL BE ADDRESSED. EACH GROUP WILL HAVE A 45 DAY CLOSURE/DETOUR PERIOD AFTER WHICH THE RAMPS ARE REOPENED UNLESS NOTED OTHERWISE.

GROUP 1 CLOSURES
RAMP B4 (HARVARD AVE. NB ENTRANCE)
RAMP C1 (FLEET AVE. NB EXIT)
*DUE TO THE ELEVATION DIFFERENTIAL AT THE PHASE JOINT GROUP 1 RAMPS WILL NOT REOPEN IN A PHASE 3A CONDITION. ONCE THE OVERWINTER PERIOD IS COMPLETE AND PHASE 3 CONTRAFLOW IS TO BE IMPLEMENTED THESE RAMPS SHALL CLOSE AND BE CONSTRUCTED.

GROUP 2 CLOSURES
RAMP A4 (GRANT AVE. NB ENTRANCE)

GROUP 3 CLOSURES
RAMP C3 (FLEET AVE. NB ENTRANCE)
RAMP D1 (PERSHING AVE. NB EXIT)

GROUP 4 CLOSURES
RAMP E1 (BROADWAY AVE. NB EXIT)

SEQUENCE OF CONSTRUCTION (CONT.)

POST-PHASE 3 (2030) (NO SHEETS PROVIDED)

WORK THIS PHASE:

IR-77
-REMOVE AND RESTORE EXISTING CROSSOVER AREAS.
-REMOVE SACRIFICIAL SURFACE COURSE ALONG THE CORRIDOR AND COMPLETE RESURFACING OPERATIONS NEAR THE NORTH PROJECT LIMIT.
-PLACE FINAL ASPHALT SURFACE COURSE.
-PLACE PERMANENT PAVEMENT MARKINGS.
-PLACE PERMANENT SIGNAGE THAT HAS NOT YET BEEN PLACED AND RESTORE SIGNAGE TO REMAIN THAT WAS PREVIOUSLY MODIFIED.

MAINTENANCE OF TRAFFIC:

IR-77
-PLACE TRAFFIC IN PERMANENT LANE POSITIONS. MAINTAIN THREE LANES OF TRAFFIC IN EACH DIRECTION. USE SHOULDER AND LANE CLOSURES PER THE PLCS AND MT-95.45, MT-95.30, MT-99.20 AND MT-101.90.
-INTERCHANGE RAMP CLOSURES DURING OFF PEAK HOURS WILL BE PERMITTED TO COMPLETE RESURFACING OPERATIONS. SEE NOTE "RAMP CLOSURES FOR RESURFACING" FOR MORE DETAILS.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

| ITEM | DURATION OF CLOSURE | NOTICE DUE TO PERMITS & PIO |
|---|---|---|
| RAMP & ROAD CLOSURES | > 2 WEEKS | 21 CALENDAR DAYS PRIOR TO CLOSURE |
| | > 12 HOURS & < 2 WEEKS | 14 CALENDAR DAYS PRIOR TO CLOSURE |
| | < 12 HOURS | 4 BUSINESS DAYS PRIOR TO CLOSURE |
| LANE CLOSURES & RESTRICTIONS | > 2 WEEKS | 14 CALENDAR DAYS PRIOR TO CLOSURE |
| | < 2 WEEKS | 5 BUSINESS DAYS PRIOR TO CLOSURE |
| START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES | N/A | 14 CALENDAR DAYS PRIOR TO IMPLEMENTATION |

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON TRAFFIC SCD MT 100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.30 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: Unnamed Plan - Sheet 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:08 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

## MAINTENANCE OF TRAFFIC

### DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

### PERMITTED LANE CLOSURE SCHEDULE (PLCS)

LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE.

THE MONTHLY PUBLISHED SCHEDULES REQUIRED TO BE USED, FOR EACH PLCS SEGMENT WITHIN THE PROJECT AREA, ARE THOSE THAT COMPRISE THE CONSECUTIVE 12-MONTH PERIOD BEGINNING 15 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE AND ENDING 4 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE. THESE SAME 12 MONTHS APPLY FOR THE LIFE OF THE PROJECT AND SHALL BE APPLIED TO EACH RESPECTIVE MONTH OF CONSTRUCTION (MONTH OF LANE CLOSURE(S) SHALL MATCH MONTH OF PLCS USED). LANE CLOSURE(S) IN PLACE FOR MULTIPLE MONTHS SHALL ALWAYS COMPLY WITH THE CURRENT RESPECTIVE MONTH.

(FOR EXAMPLE: IF THE SALE DATE FOR THE PROJECT WAS MARCH OF 2021, THE MONTHLY PUBLISHED SCHEDULES FOR EACH APPLICABLE PLCS SEGMENT WOULD BE DECEMBER 2019 TO NOVEMBER 2020. IF THIS WAS A THREE-YEAR PROJECT, YEAR THREE WOULD STILL BE USING THE DECEMBER 2019 TO NOVEMBER 2020 MONTHLY SCHEDULES. IF THE PROJECT DESIRED TO CLOSE TWO LANES IN JUNE 2021, REFERENCE WOULD BE MADE TO THE JUNE 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S). IF THE SAME TWO LANES WERE DESIRED TO BE CLOSED AGAIN IN JULY 2021, REFERENCE WOULD BE MADE TO THE JULY 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S).)

MORE RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE AT THE DISCRETION OF THE ENGINEER IN ORDER TO COMPLY WITH THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

LESS RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE SUBJECT TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)) AND SHALL NOT BE IMPLEMENTED UNTIL, AND UNLESS, APPROVED BY THE PROPER ODOT AUTHORITY. [EXISTING MOT EXCEPTIONS THAT HAVE ALREADY BEEN APPROVED IN ACCORDANCE TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY AND STANDARD PROCEDURE ARE DETAILED IN THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION(S) PLAN NOTE.]

ALLOWABLE LANE CLOSURE HOURS FOR FACILITIES NOT COVERED BY THE PLCS, IF ANY, SHALL BE AS SPECIFIED ELSEWHERE IN THE PLANS.

### DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER ___ M. GAL.

### ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF _____ EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

### ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

### WORK ZONE INCREASED PENALITIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUTDOWNS.

(THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.)

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN ____ EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE FOLLOWING LOCATIONS:

### WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S) COUNTY-ROUTE-SECTION(S) DIRECTION(S)
WZ-65288-00 CUY-77-11.21 NB/SB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH)
FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

| ORIGINAL POSTED SPEED LIMIT | WITH POSITIVE PROTECTION | | WITHOUT POSITIVE PROTECTION | |
|---|---|---|---|---|
| | WORKERS PRESENT | WORKERS NOT PRESENT | WORKERS PRESENT | WORKERS NOT PRESENT |
| 70 | 60 | 65 | 55 | 65 |
| 65 | 55 | 60 | 50 | 60 |
| 60 | 55 | 60 | 50 | 60 |
| 55 | 50 | 55 | 45 | 55 |

### EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC ____ CU. YD.

EMBANKMENT FOR MAINTAINING TRAFFIC ____ CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

### FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

### ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

### ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR HAZARDS OVER 24" AND LESS THAN 36" WIDE (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

Preliminary Plans - For Reference Only



DESIGN AGENCY
HNTB
DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.31 TOTAL P.1135



MODEL: Unnamed Plan-1 - Sheet 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:09 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

## MAINTENANCE OF TRAFFIC

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT. THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER
PLAN _____ SIGN MONTH ASSUMING _____ PCMS
SIGN(S) FOR _____ MONTH(S)

MAINTENANCE OF TRAFFIC SIGNAL/INTERSECTION CONTROL BEACON INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNALS AND INTERSECTION CONTROL BEACON INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/INTERSECTION CONTROL BEACON INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW OR REUSED SIGNAL/INTERSECTION CONTROL BEACON INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN TWO HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE IMPACTED MUNICIPALITY FOR POLICE SERVICES AND MAINTENANCE SERVICES BY LOCAL FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

MAINTENANCE OF TRAFFIC SIGNAL/INTERSECTION CONTROL BEACON INSTALLATION (CONT.)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 8 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7 AM TO 6 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED BY OFF-DUTY LOCAL POLICE, HIRED BY THE CONTRACTOR.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT

OHIO TIM IS OHIO'S TRAFFIC INCIDENT MANAGEMENT PROGRAM WHICH IS COMMITTED TO MAINTAINING THE SAFE AND EFFECTIVE FLOW OF TRAFFIC DURING EMERGENCIES AS TO PREVENT FURTHER DAMAGE, INJURY OR UNDUE DELAY OF THE MOTORING PUBLIC. IN ADDITION TO COMPLYING WITH THE PROVISION OF OMUTCD CHAPTER 6I, CONTROL OF TRAFFIC THROUGH TRAFFIC INCIDENT MANAGEMENT AREAS, THE CONTRACTOR SHALL ACTIVELY PARTICIPATE IN TIM PLANNING AND IMPLEMENTATION AS OUTLINED BELOW.

1. SUPERINTENDENT SHALL IDENTIFY THE INDIVIDUAL PERSONS ON THE PROJECT WHO WILL, OR MAY NEED TO, PERFORM THE DUTIES HEREIN. AT A MINIMUM, INCLUDE THE SUPERINTENDENT, FOREMEN AND SUPERVISORS (OR EQUIVALENT) AS WELL AS THE WORKSITE TRAFFIC SUPERVISOR (WTS; IF APPLICABLE TO THE PROJECT). THESE INDIVIDUALLY IDENTIFIED PERSONS SHALL COLLECTIVELY BE KNOWN AS CONTRACTOR TRAFFIC INCIDENT MANAGEMENT (TIM) CONTACTS. NOTIFY THE PROJECT ENGINEER OF THE CONTRACTOR TIM CONTACTS (ALONG WITH CONTACT INFORMATION FOR EACH) AT OR BEFORE THE PRECONSTRUCTION MEETING.

2. SUPERINTENDENT SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONTRACTOR TIM CONTACT IS ADDED, REMOVED OR THE CONTACT INFORMATION CHANGES OVER THE COURSE OF THE PROJECT.

3. PRIOR THE FIRST DAY OF WORK IN THE FIELD, EACH CONTRACTOR TIM CONTACT ON THE PROJECT SHALL HAVE ATTENDED AND SUCCESSFULLY COMPLETED OHIO TIM TRAINING PROVIDED BY THE DEPARTMENT OR DESIGNEE. TRAINING INFORMATION CAN BE FOUND AT WWW.OHIOTIM.COM.

TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT (CONT.)

4. SUPERINTENDENT, AT A MINIMUM, SHALL ATTEND AND ACTIVELY PARTICIPATE IN A DEPARTMENT SCHEDULED TIM MEETING BEFORE CONSTRUCTION WORK BEGINS AND BEFORE EACH PHASE CHANGE. THESE MEETINGS WILL RESULT IN A DEPARTMENT ISSUED PROJECT SPECIFIC TRAFFIC INCIDENT MANAGEMENT PLAN (TIMP). AT THE TIM MEETINGS THE ATTENDING CONTRACTOR TIM CONTACTS SHALL:

   A. COLLABORATE WITH ODOT AND SAFETY FORCES;

   B. SHARE PROJECT SPECIFIC DETAILS THAT IMPACT TIM RESPONDERS; AND

   C. RECOMMEND WAYS TO INCORPORATE NECESSARY EMERGENCY ACCESS AND OTHER TIM ELEMENTS FOR TIM RESPONDERS GIVEN PROJECT SPECIFIC WORK BEING COMPLETED AND PROJECT SPECIFIC PHASING.

5. CONTRACTOR TIM CONTACTS SHALL IMPLEMENT COMPONENTS OF THE RESULTING TIMP (SUCH AS APPROVED EMERGENCY INGRESS/EGRESS POINTS, ETC), AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

6. CONTRACTOR TIM CONTACTS SHALL PERFORM, AT A MINIMUM, THE FOLLOWING FUNCTIONS WHEN AN INCIDENT/CRASH OCCURS:

   A. IF OBSERVED OR PRESENT WHEN OCCURS, CALL 911 AND THEN NOTIFY THE TRAFFIC MANAGEMENT CENTER (TMC) TO PROVIDE THE FOLLOWING:

      I. LOCATION, INCLUDING MILEPOST NUMBER AND DIRECTION OF TRAVEL

      II. NUMBER AND TYPE OF VEHICLES INVOLVED, IF KNOWN

      III. ESTIMATED EXTENT OF DAMAGE OR INJURY, IF KNOWN

      IV. ESTIMATED NUMBER OF PATIENTS INVOLVED, IF KNOWN

      V. ANY POTENTIAL HAZARDOUS CONDITIONS, IF KNOWN

      VI. THE PLACARD NUMBER ON ANY HAZARDOUS MATERIALS PLACARD FROM A SAFE DISTANCE, IF APPLICABLE AND VISIBLE

   B. FOLLOWING AN INCIDENT/CRASH:

      I. INITIATE TRAFFIC MANAGEMENT/PROVIDE TEMPORARY TRAFFIC CONTROL AS INDICATED IN THE TIMP, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

      II. RECOMMEND ROADWAY REPAIR NEEDS.

      III. PROVIDE REPAIR RESOURCES AND INITIATE REPAIRS, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

      IV. ATTEND AND PARTICIPATE IN AN AFTER ACTION REVIEW (AAR).

ALL COSTS, UNLESS OTHERWISE SPECIFIED, RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614, MAINTAINING TRAFFIC. FAILURE TO PERFORM THE REQUIREMENTS OF THIS PLAN NOTE WILL RESULT IN A DAILY FINE OF 2% OF ITEM 614, MAINTAINING TRAFFIC AND MAY RESULT IN ONE OR MORE CONTRACTOR TIM CONTACTS BEING REMOVED FROM THE LIST OF OHIO TIM TRAINED INDIVIDUALS (AT THE SOLE DISCRETION OF THE OHIO TIM EXECUTIVE COMMITTEE). IN THE EVENT AN INDIVIDUAL IS REMOVED FROM THE OHIO TIM TRAINED LIST, THE INDIVIDUAL WILL BE REMOVED FROM CONTRACTOR TIM CONTACT RESPONSIBILITIES ON ALL PROJECTS.

Preliminary Plans - For Reference Only





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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.32 TOTAL P.1135

**MAINTENANCE OF TRAFFIC**

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW SHALL NOT BE PERMITTED AT PROJECT COST NOR TIME COMPENSATION. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).
- DURING PERIODS WHERE TRAFFIC NEEDS TO BE DIRECTED CONTRARY TO A TRAFFIC CONTROL DEVICE (FLAGGER, SIGN [E.G. STOP SIGN, STREET OR HIGHWAY SIGNS, ETC], SIGNAL OR OTHER DEVICE USED TO REGULATE, WARN OR GUIDE TRAFFIC). TRAFFIC IN THIS INSTANCE INCLUDES VEHICULAR, PEDESTRIAN AND/OR SHARED USE PATH USERS.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- FOR LANE CLOSURES THAT MEET ALL OF THE CRITERIA LISTED BELOW: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

  o CRITERIA
  - ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND,
  - AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
  - AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS AND/OR IN CONTRARY TO OTHER TRAFFIC CONTROL DEVICES IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS.THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEOWITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE____ HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY)WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER, THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS,AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.
2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.
3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.
4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.
5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.
7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.
8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.
9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

WORKSITE TRAFFIC SUPERVISOR (CONT.)

10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.
11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

    A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).
    B. DAILY TTC SETUP AND REMOVAL.
    C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.
    D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.
    E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.
    F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED (CA-D-8) WITHIN GOFORMZ AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER BY THE END OF THE WORKDAY IN WHICH THE INSPECTION OCCURRED. THE CA-D-8 INCLUDES A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. CONTACT GOFORMZ.HELP@DOT.OHIO.GOV TO OBTAIN A USER ACCOUNT. ANY DEFICIENCIES OBSERVED SHALL BE NOTED ON THE CA-D-8, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.
13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.

B. 1% OF THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A FAILURE TO PERFORM WTS DUTIES REOCCURS OR A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.

C. 1% OF THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS (AND ANY ALTERNATE WTS, IF APPLICABLE) SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AT THE PROJECT LEVEL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS (AND ALTERNATE WTS, IF APPLICABLE). ACCUMULATION OF THREE PROJECT LEVEL REMOVALS (FROM ANY PROJECTS STATEWIDE) SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY FORMERLY PREQUALIFIED WTS. A WTS (AND ALTERNATE WTS, IF APPLICABLE) MAY BE IMMEDIATELY AND CONCURRENTLY REMOVED FROM THE WORK AT THE PROJECT LEVEL IN ACCORDANCE WITH C&MS 108.05 AND DISQUALIFIED STATEWIDE FROM THE ODOT PREQUALIFIED WTS ROSTER (REGARDLESS OF THE NUMBER OF PROJECT LEVEL REMOVALS), AS WELL AS BEING SUBJECT TO OTHER POTENTIAL CONSEQUENCES, IN CASES OF FALSIFIED, DISHONEST OR OTHERWISE UNETHICAL ACTIVITY OR DOCUMENTATION.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

CONTRACTOR ACCESS

THOUGH SPECIFIC LOCATIONS OF CONTRACTOR ACCESS TO COMPLETE HIGHWAY WORK HAVE NOT BEEN DESIGNATED ON THE MOT PLANS THE CONTRACTOR SHALL MAINTAIN ALL INGRESS/EGRESS POINTS TO WORK AREAS.

PRIOR TO STARTING EACH PHASE OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A FORMAL ACCESS PLAN TO THE ENGINEER FOR APPROVAL. THE PLAN SHALL INDICATE LOCATIONS OF INGRESS AND EGRESS, REQUIRED TRAFFIC CONTROL AND DURATION OF TIME THAT SAID ACCESS POINTS WILL BE IN PLACE AND OPERATIONAL. NO WORK ON A PHASE SHALL COMMENCE UNTIL APPROVAL OF THE ACCESS PLAN IS RECEIVED FROM THE ENGINEER. ANY SIGNIFICANT CHANGES TO THE THE MOT AS DETERMINED BY THE ENGINEER RESULTING FROM THE ACCESS PLANS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF OHIO. SEE NOTE "WORK ZONE EGRESS WARNING SYSTEM" FOR MORE INFORMATION ON REQUIRED TRAFFIC CONTROL AT ACCESS POINTS.

PAYMENT FOR FURNISHING ACCESS PLANS AND RESULTANT MODIFICATIONS TO THE PLAN MOT SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 614 - MAINTENANCE OF TRAFFIC.

WORK ZONE EGRESS WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE EGRESS WARNING SYSTEM (WZEWS) AS PER SUPPLEMENTAL SPECIFICATION 829.

THE PROBABLE INITIAL LOCATIONS OF THE WZEWS DEVICES SHALL BE SHOWN ON ACCESS PLANS DEVELOPED BY THE CONTRACTOR (SEE CONTRACTOR ACCESS NOTE) AND APPROVED BY THE ENGINEER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

WZEWS SHALL BE USED IN ACCORDANCE WITH MT-103.10.THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 829, WORK ZONE EGRESS WARNING SYSTEM 144 SIGN MONTH
ASSUMING 3 WORK ZONE EGRESS WARNING SYSTEMS FOR 48 MONTHS

WORK ZONE QUEUE DETECTION WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE QUEUE DETECTION WARNING SYSTEM (WZQDWS) AS PER SUPPLEMENTAL SPECIFICATION 896.

THE PROBABLE INITIAL LOCATIONS OF THE WZQDWS DEVICES FOR SHALL BE AT THE APPROVAL OF THE ENGINEER. FOR IR-77 NORTHBOUND A WZQDWS SHALL BE SET AT THE LANE CLOSURE POINT, 0.5 MILES IN ADVANCE OF THE CLOSURE AND 1 MILE IN ADVANCE OF THE CLOSURE. FOR SOUTHBOUND IR-77 WZQDWS QUANTITY HAS BEEN INCLUDED FOR 3 SYSTEMS FOR 3 YEARS OF CONSTRUCTION. THE USAGE AND PLACEMENT OF THESE SHALL BE AS DIRECTED BY THE ENGINEER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

THE FOLLOWING TRAFFIC SENSOR THRESHOLDS AND PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) MESSAGES SHALL BE USED:

GREATER THAN OR EQUAL TO 50 MPH – USE FOUR CORNER FLASHING CAUTION MODE
BETWEEN 50 MPH AND 25 MPH – TRAFFIC AHEAD XX MPH / SLOW DOWN
BELOW OR EQUAL TO 25 MPH – TRAFFIC AHEAD XX MPH / PREPARE TO STOP

FOUR CORNER FLASHING CAUTION MODE SHALL CONSIST OF THE USE OF ONE ASTERISK IN EACH CORNER OF THE PCMS DISPLAY (4 TOTAL ASTERISKS).

XX SHALL BE ROUNDED UP TO THE NEAREST MULTIPLE OF 5 MPH MINUS 1. OCCUPANCY MAY BE DIRECTED TO BE USED BASED ON CERTAIN TRAFFIC CONDITIONS AND SCENARIOS. ODOT WILL DIRECT THE CONTRACTOR OF THE THRESHOLDS TO BE USED FOR THOSE AREAS WHERE OCCUPANCY IS DIRECTED TO BE USED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 896, PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I 216 SIGN MONTH
ASSUMING 6 SENSOR(S) FOR 36 MONTH(S)

ITEM 896, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 216 SIGN MONTH
ASSUMING 6 PCMS SIGN(S) FOR 36 MONTH(S)

For Preliminary Plans - Not For Construction



DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.33 TOTAL P.1135



MODEL: Unnamed Plan-3 - Sheet 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:13 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

## MAINTENANCE OF POSITIVE DRAINAGE AND TEMPORARY DRAINAGE

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. THE BELOW HIGHLIGHTS ASSUMED PHASING TO IMPLEMENT THE PROPOSED DRAINAGE SYSTEM AND MAINTAIN THE EXISTING DRAINAGE SYSTEM. BASED ON THE CONTRACTOR'S MEANS AND METHODS THE BELOW PHASING MAY BE MODIFIED AT THE DISCRETION OF THE CONTRACTOR WITH APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE OR ABANDON (WITH APPROVAL OF THE ENGINEER) ALL TEMPORARY DRAINAGE INFRASTRUCTURE NEEDED TO MAINTAIN POSITIVE DRAINAGE. THOUGH SPECIFIC ITEMS ARE LISTED BELOW THESE ARE FOR INFORMATION ONLY. PAYMENT FOR FURNISHING, INSTALLING, AND REMOVAL SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

PRE-PHASE 1
NORTHBOUND AND SOUTHBOUND 77
IN AREAS OF TEMPORARY PAVEMENT AND/OR CURB REMOVAL ADD TEMPORARY CATCH BASINS AND CONDUITS IN TEMPORARY SWALES. ABANDON EXISTING PAVEMENT INLETS/CATCH BASINS IN TEMPORARY PAVEMENT AREAS/CURB REMOVAL AREAS THAT ARE NO LONGER COLLECTING DRAINAGE. SEE MOT PLANS AND THE TABLE ON THIS SHEET FOR MORE DETAILS. CLEAN AND/OR ADJUST/RECONSTRUCT EXISTING MEDIAN INLETS TO GRADE AS DIRECTED BY THE ENGINEER. BEGIN CONSTRUCTION OF THE PROPOSED TRUNK DRAINAGE SYSTEM ALONG THE OUTSIDE OF SOUTHBOUND I-77.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES ARE ASSUMED COMPLETE IN THE PRE-PHASE. SEE THE MOT PLANS FOR MORE DETAILS:

D3A, D3B, D3D, D3, D7, D12, D22, D27, D28, D31, D32, D37, D39, D41, D50, D43, D43A, D55, D59, D59X, D61, D64A, D64, D71, D71A, D71B, D71C, D71D, D72, D83, D84, D86, D88, D96, D162, D168, D169, D170A, D170B, DZ-2, D220, D177, D177A, D177C, D180, D181, D182, D185, D186, D192, D193X, D193, D195, D201, D212, D214, D215, D206, D207, D208.

THE FOLLOWING TEMPORARY DRAINAGE CONNECTIONS WILL NEED MADE TO KEEP POSITIVE DRAINAGE IN EXISTING DRAINAGE SYSTEMS. ALSO THE FOLLOWING EXISTING DRAIN RUNS NEED TO REMAIN ACTIVE:

TEMPORARY CONNECTION OF SWALE TO DA12A
TEMPORARY CONNECTION OF SWALE TO D22
TEMPORARY CONNECTION OF SWALE TO D28
TEMPORARY CONNECTION OF SWALE TO D37
TEMPORARY CONNECTION OF SWALE TO D41
TEMPORARY CONNECTION OF SWALE TO DXX (JUST NORTH OF HARVARD)
TEMPORARY CONNECTION OF SWALE TO DA100
TEMPORARY CONNECTION OF SWALE TO DA149
TEMPORARY CONNECTION OF SWALE TO D201
TEMPORARY CONNECT D206 TO DA283

PHASE 1
COMPLETE THE REMAINING PORTIONS OF THE NEW TRUNK STORM SEWER SYSTEM AND DRAINAGE STRUCTURES ALONG THE SOUTHBOUND OUTSIDE SHOULDER. COMPLETE STORM SEWER LATERALS ACROSS THE PHASE JOINT LINE.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 1:

D1, D2, D2A, D6, D7, D10, D10A, D11, D15, D15C, D17, D17A, D18, D18A, D19, D21, D21A, D24, D26, D31C, D36, D37A, D40, D42, D49, D50, D51, D54, D60, D01B, D68, D69, D70, D85, D86A, D95A, D97, D98, D101, D102, D103, D104, D163A, D163, D162, D168A, D164, D165, D166, D166A, D167, D212, D212D, D214, D215C, D405, D399,

THE FOLLOWING CONDUIT RUNS REQUIRING BORING OR JACKING TO CROSS I-77 MAY NEED COMPLETED OR PARTIALLY COMPLETED DURING THIS PHASE:

D95 TO D95A

## MAINTENANCE OF POSITIVE DRAINAGE AND TEMPORARY DRAINAGE (CONT.)

PHASE 2

COMPLETE PROPOSED STORM SEWER LATERAL CROSSINGS OF SB I-77 AND COMPLETE MEDIAN DRAINAGE STRUCTURES.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 2:

D5, D9, D14, D16, D23, D32A, D38, D38A, D48, D58, D63, D65, D66, D67, D82, D95, D156, D157, D158, D159, D160, D161, D183, D187, D194, D198, D197, D202, D203, D204, D205, D400, D401, D404, D402, D407, D403

THE FOLLOWING CONDUIT RUNS REQUIRING BORING AND JACKING TO CROSS I-77 WILL NEED COMPLETED OR PARTIALLY COMPLETED THIS PHASE:

D38 TO D38A
D95 TO D95A
D202 TO D205

THE FOLLOWING TEMPORARY DRAINAGE CONNECTIONS WILL NEED MADE TO KEEP POSITIVE DRAINAGE IN EXISTING DRAINAGE SYSTEMS. ALSO THE FOLLOWING EXISTING DRAIN RUNS NEED TO REMAIN ACTIVE:

DA2 TO DA3 (REMAIN ACTIVE)
TEMPORARY CONNECT DA3 TO D5
TEMPORARY CONNECT DA28 TO D14
TEMPORARY CONNECTION FROM DA50 TO D28
DA149 TO DA130 (REMAIN ACTIVE)
DA133 TO DA130 (REMAIN ACTIVE)
ABANDON DA181 BYPASS TO DA175
DA175 TO DA167 (REMAIN ACTIVE)
TEMPORARY CONNECT DA167 TO D95
DA192 TO DA196 (REMAIN ACTIVE)
TEMPORARY CONNECT DA196 TO D157
ABANDON DA198 BYPASS TO DA201
DA201 TO DA206 (REMAIN ACTIVE)
DA205 TO DA206 (REMAIN ACTIVE)
DA212 TO DA211/SZ27 (REMAIN ACTIVE)
DA227 TO DA220 (REMAIN ACTIVE)
DA248 TEMP. OUTFALL TO SWALE TO D206

PHASE 3

COMPLETE PROPOSED STORM SEWER LATERAL CROSSINGS OF NB I-77 AND COMPLETE THE REMAINDER OF THE PROPOSED DRAINAGE SYSTEM. ABANDON ALL EXISTING FACILITIES THAT ARE NO LONGER INTENDED TO REMAIN IN SERVICE AFTER THE PROJECT IS COMPLETE.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 3:

D4, D8, D13, D13A, D30, D31A, D31B, D33, D34, D34A, D44, D105, D45, D106, D46, D107, D47, D108, D47A, D53, D56, D57, D01A, D73, D74, D76A, D76, D77, D78, D81, D80, D79, D81A, D84A, D87, D89, D90, D91, D92, D93, D94A, D94, D150, D150X, D150X, D151A, D152, D154, D155, D184, D188, D189A, D189, D190, D191, D209, D408

(FOR INFORMATION ONLY)

| REF NO. | PHASE | SIDE | STATION | 202 INLET ABANDONED EACH | 611 CATCH BASIN, NO. 2-2B EACH | 611 15" CONDUIT, TYPE B FT | 611 INLET ADJUSTED TO GRADE EACH | 611 INLET RECONSTRUCTED TO GRADE EACH | 611 15" SLOTTED DRAIN, TYPE 2 FT | SPECIAL TEMPORARY DRAINAGE TROUGH 18" WIDE 1.25" DEEP FT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | INTERSTATE 77 | | | | | | | |
| DA-12A | PRE-PHASE 1 | SB | 79+00 | | 1 | 15 | | | | |
| DA-21 | PRE-PHASE 1 | SB | 80+00 | | 1 | 140 | | | | |
| D-22 | PRE-PHASE 1 | SB | 86+00 | | 1 | 15 | | | | |
| DA-81 | PRE-PHASE 1 | SB | 106+50 | | 1 | 100 | | | | |
| DA-100 | PRE-PHASE 1 | NB | 117+00 | | 1 | 90 | | | | |
| DA-149 | PRE-PHASE 1 | NB | 136+50 | | 1 | 20 | | | | |
| D-195 | PRE-PHASE 1 | SB | 196+50 | | 1 | 45 | | | | |
| DA-284 | PRE-PHASE 1 | SB | 199+50 | | 1 | 30 | | | | |
| DA-283 | PRE-PHASE 1 | NB | 199+50 | | 1 | 35 | | | | |
| D-206 | PRE-PHASE 1 | NB | 200+35 | | | 65 | | | | |
| DA-163 | PRE-PHASE 1 | MEDIAN | 144+60 | | | | 1 | | | |
| DA-167 | PRE-PHASE 1 | MEDIAN | 147+00 | | | | 1 | | | |
| DA-172 | PRE-PHASE 1 | MEDIAN | 148+50 | | | | 1 | | | |
| DA-237 | PRE-PHASE 1 | MEDIAN | 190+00 | | | | 1 | | | |
| DA-244 | PRE-PHASE 1 | MEDIAN | 193+00 | | | | 1 | | | |
| DA-253 | PRE-PHASE 1 | MEDIAN | 195+00 | | | | | 1 | | |
| DA-270 | PRE-PHASE 1 | MEDIAN | 197+00 | | | | 1 | | | |
| | | | | | | | | | | |
| | PHASE 3 | NB MEDIAN | 74+50 TO 220+83 | | | | | | | 14,633 |

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.34 TOTAL P.1135

CUY-77-11.43 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

*DELINEATION OF PORTABLE AND PERMANENT BARRIER*

*BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.*

*BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.*

*[INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.]*

*[THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.]*

*[DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.]*

*[TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.]*

*THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:*

| | | |
|---|---|---|
| *ITEM 614,* | *BARRIER REFLECTOR, TYPE 1 (ONE-WAY OR BI-DIRECTIONAL)* | *____ EACH* |
| *ITEM 614,* | *OBJECT MARKER, ____-WAY* | *____ EACH* |
| *[ITEM 614,* | *INCREASED BARRIER DELINEATION* | *____ FEET ]* |

*PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.*

*[ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.]*

*DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL*

*BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.*

*[OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.]*

*THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:*

| | | |
|---|---|---|
| *ITEM 614,* | *BARRIER REFLECTOR, TYPE (2, 3, 4, OR 5) (ONE-WAY OR BI-DIRECTIONAL)* | *____ EACH* |
| *[ITEM 614,* | *OBJECT MARKER, ____-WAY* | *____ EACH* |

*PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).*

*ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN*

*WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.*

*- RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.*
*- RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.*

*THE SNOW-PLOWING SEASON SHALL RUN FROM _____ THROUGH _____.*

*IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.*

*THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.*

*RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.*

*THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:*

| | | |
|---|---|---|
| *ITEM 254* | *PAVEMENT PLANING, ASPHALT CONCRETE* | *SQUARE YARDS* |
| *ITEM 614* | *WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN* | *EACH* |

*PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.*

*ITEM 614, WORK ZONE RAISED PAVEMENT MARKERS ON PERMANENT CONCRETE SURFACES*

*RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMs ARE INTENDED FOR USE ONLY DURING THE NON-SNOW-PLOWING SEASON. WZRPMs SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON.*

*THE SNOW-PLOWING SEASON SHALL RUN FROM _____ THROUGH _____.*

*WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.*

*THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS.*

*AN ESTIMATED QUANTITY OF _____ EACH OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.*

*690E98000 - ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC*

*THIS ITEM OF WORK PROVIDES A FIXED UNIT COST OF $1 PER EACH FOR THE REPAIR OR REPLACEMENT OF ITEMS PERMANENTLY DAMAGED BY TRAFFIC ELIGIBLE UNDER C&MS 107.15.*

*IF THE ENGINEER DETERMINES THAT THE REQUIREMENTS OF C&MS 107.15 HAVE BEEN MET, THE DEPARTMENT WILL REIMBURSE THE CONTRACTOR UPON RECEIPT AND ACCEPTANCE OF THE COSTS IN ACCORDANCE WITH C&MS 109.05. THE PAYMENT DUE WILL BE DEDUCTED FROM ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC. C&MS TABLE 104.02-2 DOES NOT APPLY TO REDUCTIONS IN THIS CONTRACT ITEM.*

*THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO COMPLETE THIS ITEM OF WORK:*

| | | |
|---|---|---|
| *ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC* | *XXX,XXX* | *EACH* |

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES



MODEL: Unnamed Plan-1 - Sheet 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:16 PM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.35 TOTAL P.1135

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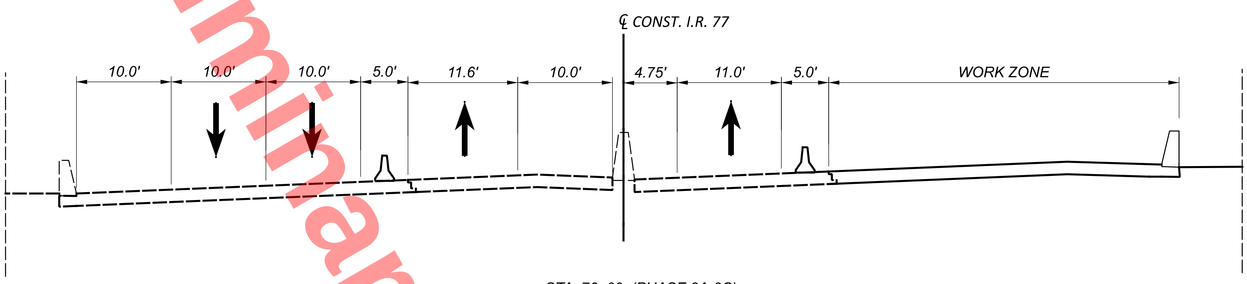
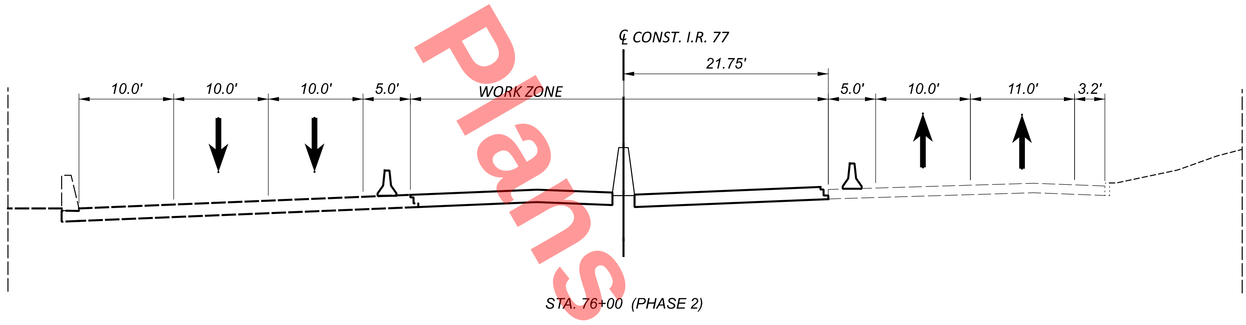
Preliminary Plans - For Reference Only




STA. 76+00 (PHASE 3A-3C)

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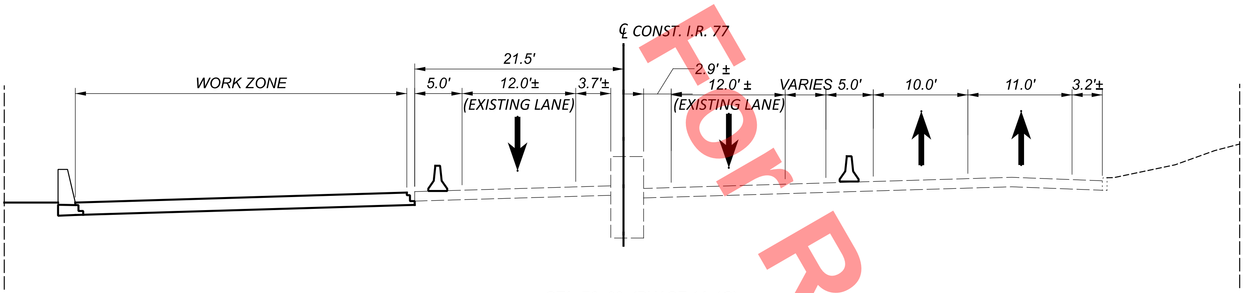
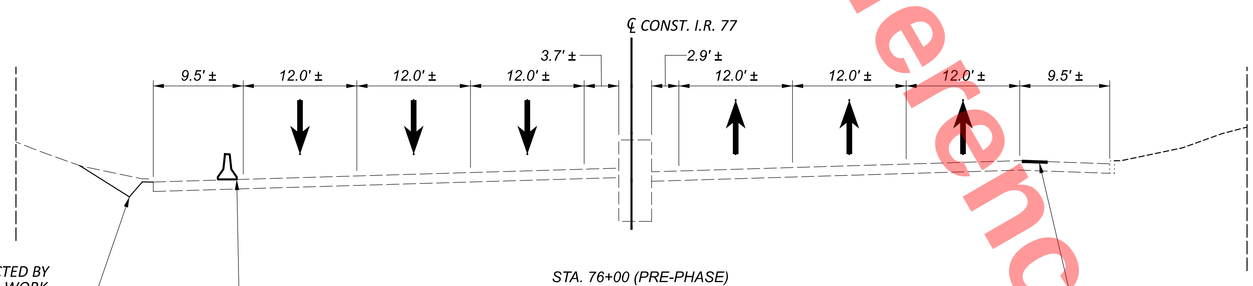



STA. 76+00 (PHASE 1A-1C)

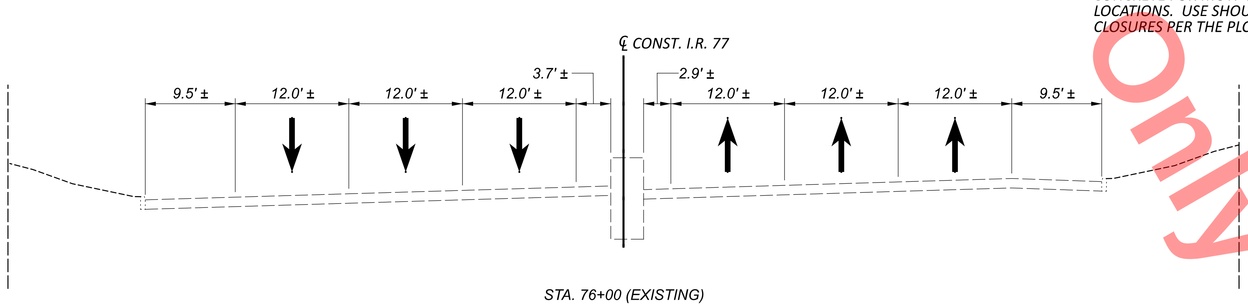



STA. 76+00 (PRE-PHASE)

EX. CURB IMPACTED BY STORM SEWER WORK. PLACE TEMP SWALE PER MOT CROSS SECTIONS. SEE MOT PLANS FOR LOCATIONS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.




STA. 76+00 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.36 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

DESIGN AGENCY: HNTB

# MOT TYPICAL SECTIONS
# STA. 76+00.00

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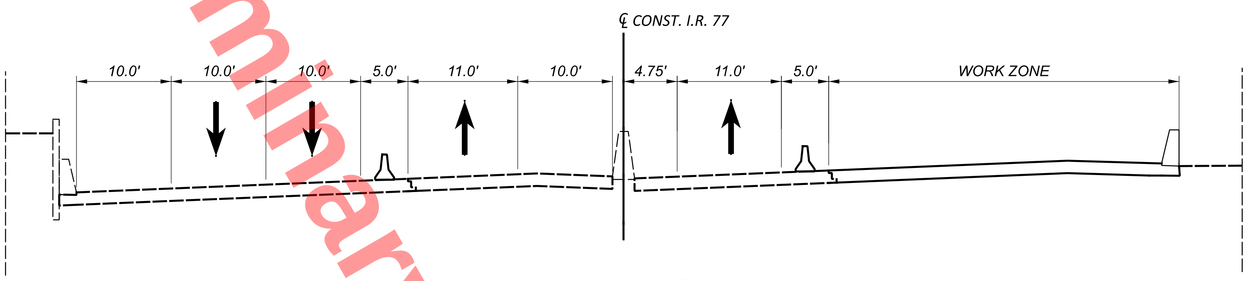
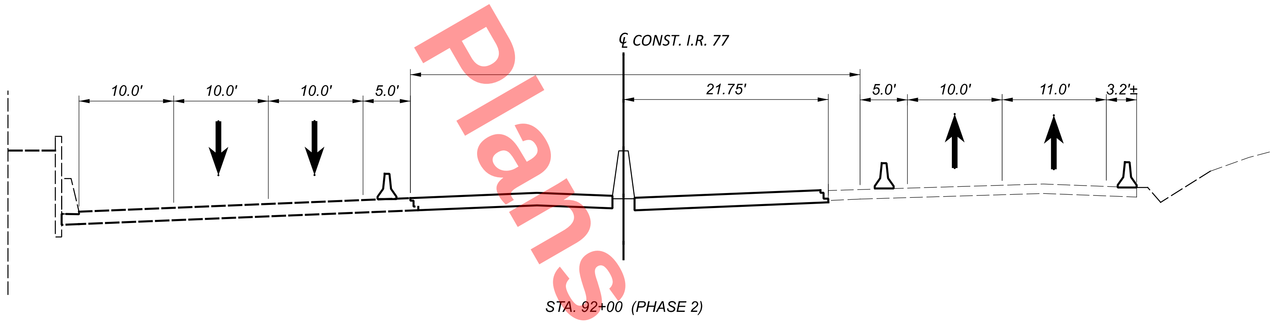
Preliminary Plans - For Reference Only




STA. 92+00 (PHASE 3A-3C)

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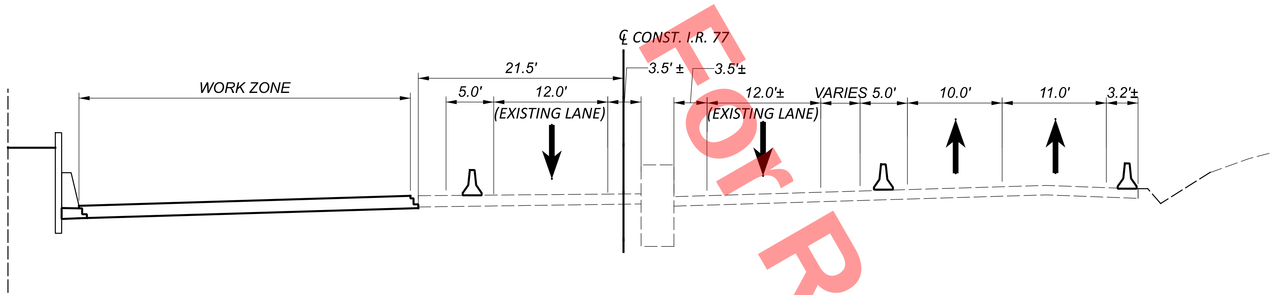


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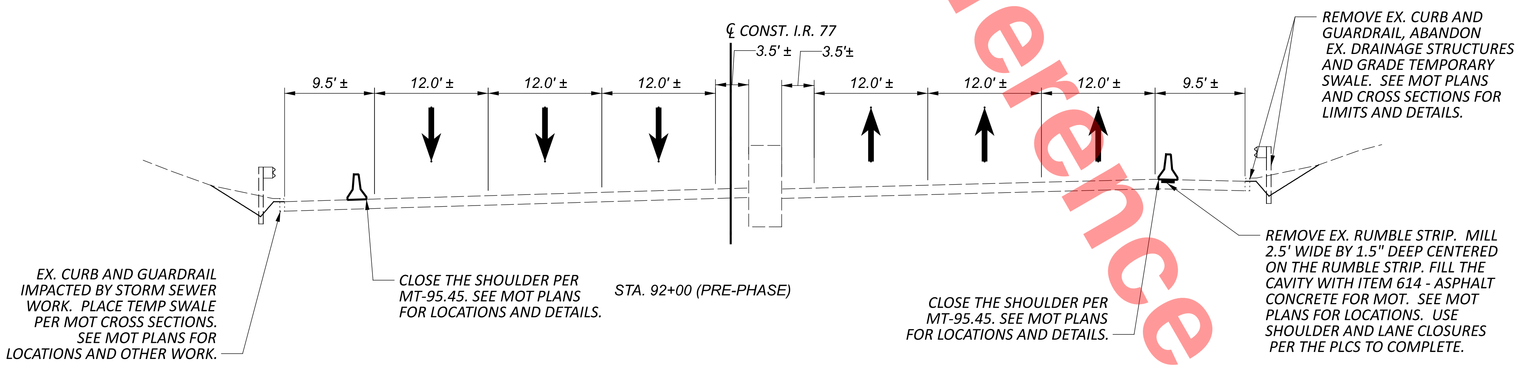


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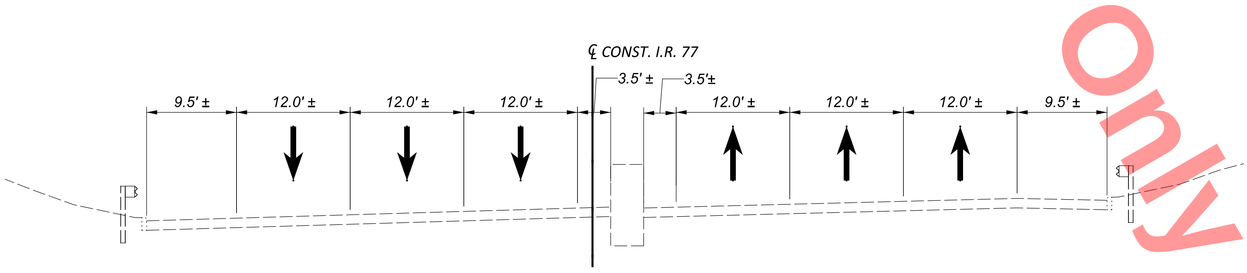


STA. 92+00 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.37 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

DESIGN AGENCY: HNTB

# MOT TYPICAL SECTIONS
# STA. 92+00.00

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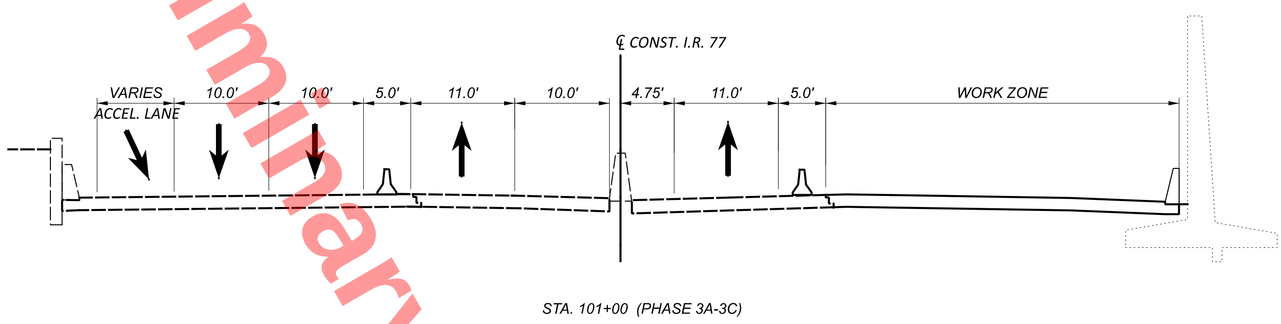
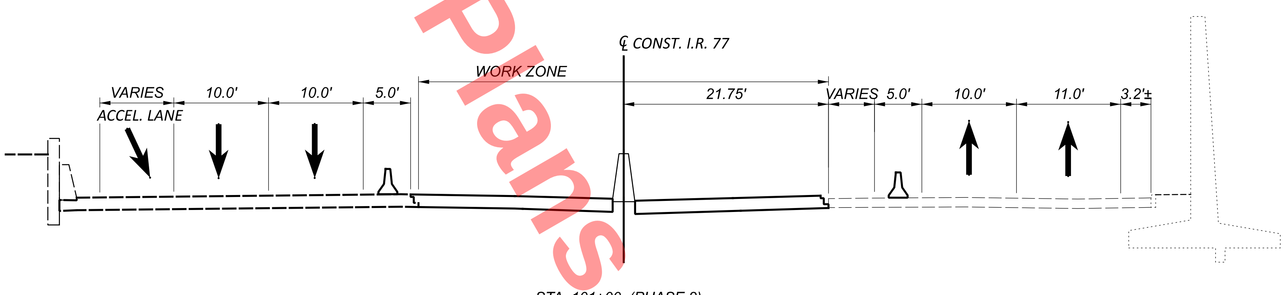
Preliminary Plans - For Reference Only




STA. 101+00 (PHASE 3A-3C)

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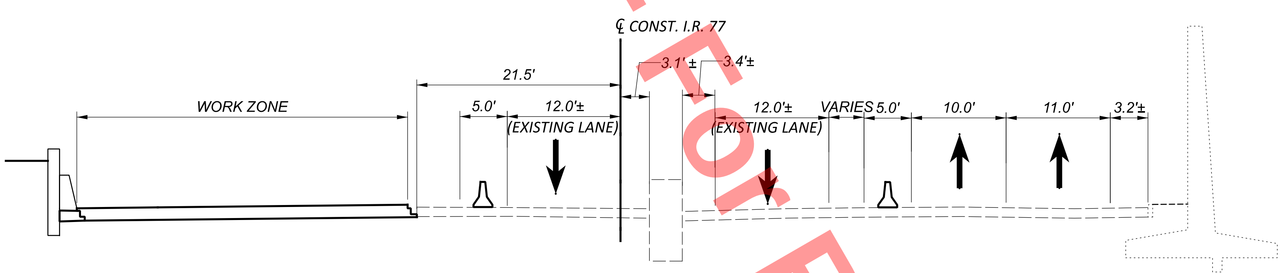


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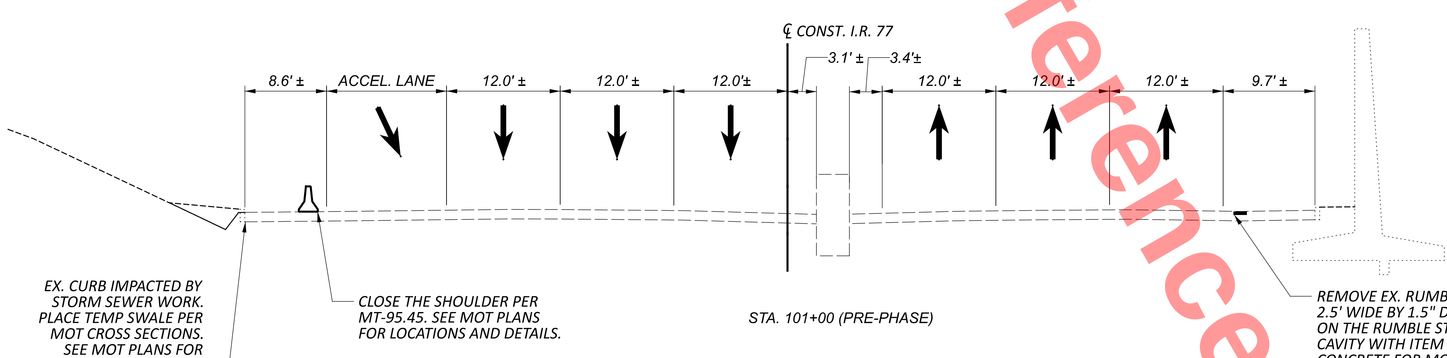
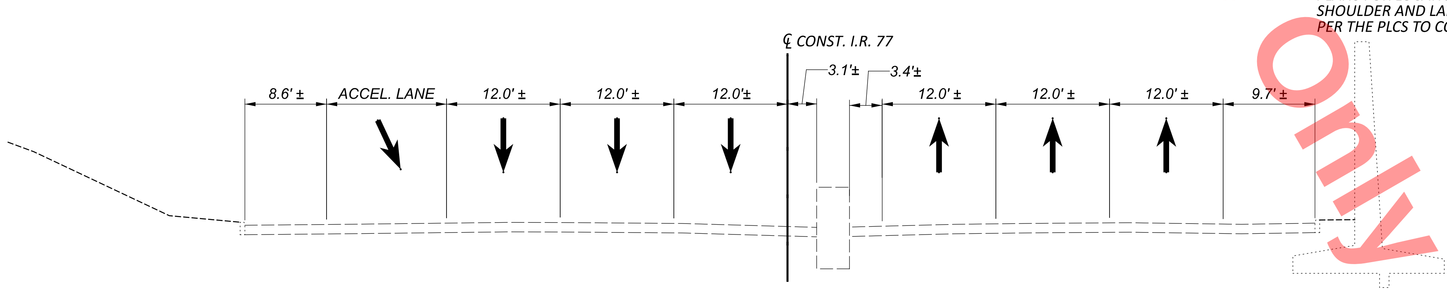



EX. CURB IMPACTED BY STORM SEWER WORK. PLACE TEMP SWALE PER MOT CROSS SECTIONS. SEE MOT PLANS FOR LOCATIONS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

STA. 101+00 (PRE-PHASE)

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.




STA. 101+00 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.38 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

DESIGN AGENCY: HNTB

# MOT TYPICAL SECTIONS
# STA. 101+00.00

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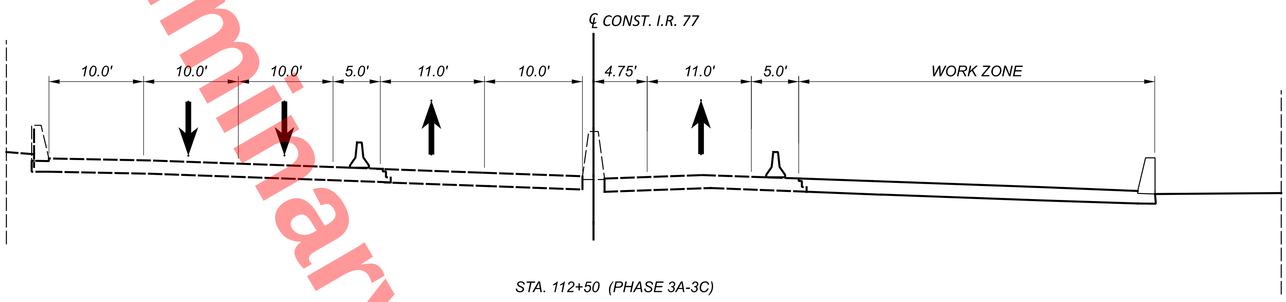
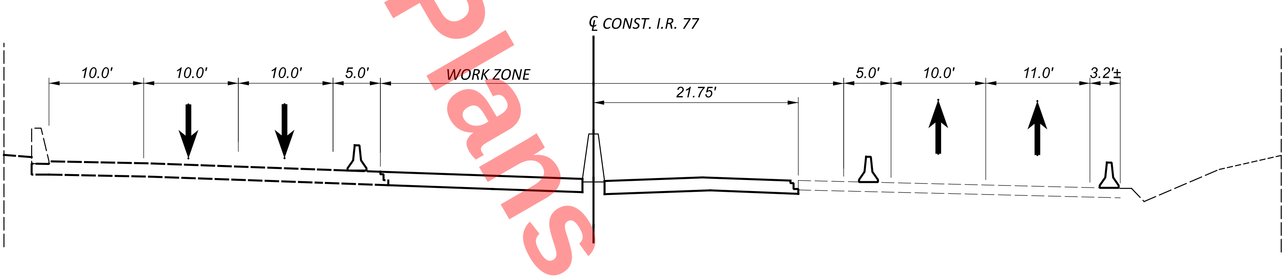
Preliminary Plans - For Reference Only




STA. 112+50 (PHASE 3A-3C)

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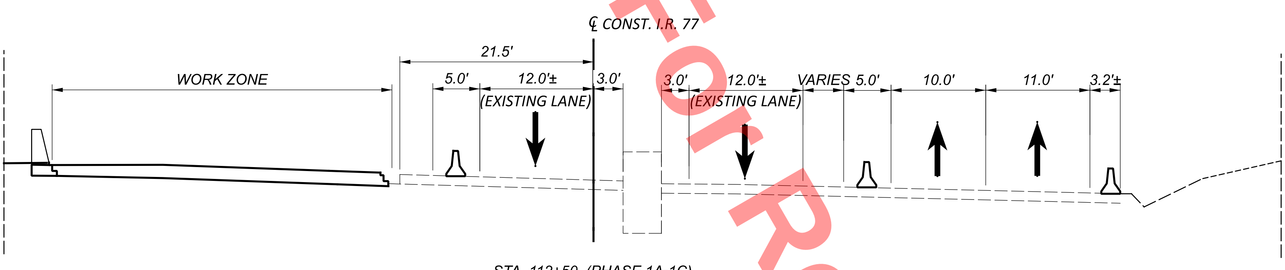


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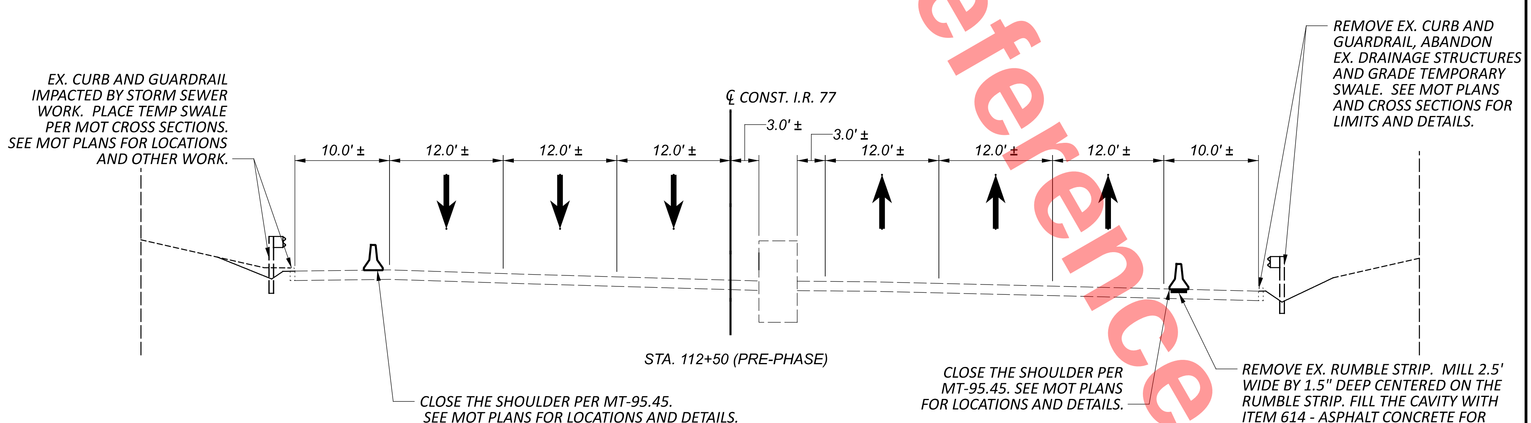
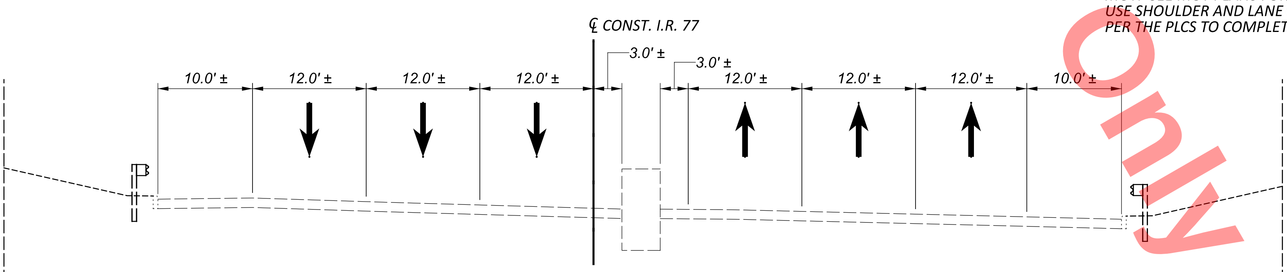



STA. 112+50 (PRE-PHASE)

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.




STA. 112+50 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.39 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

DESIGN AGENCY: ODOT

# MOT TYPICAL SECTIONS
# STA. 112+50.00

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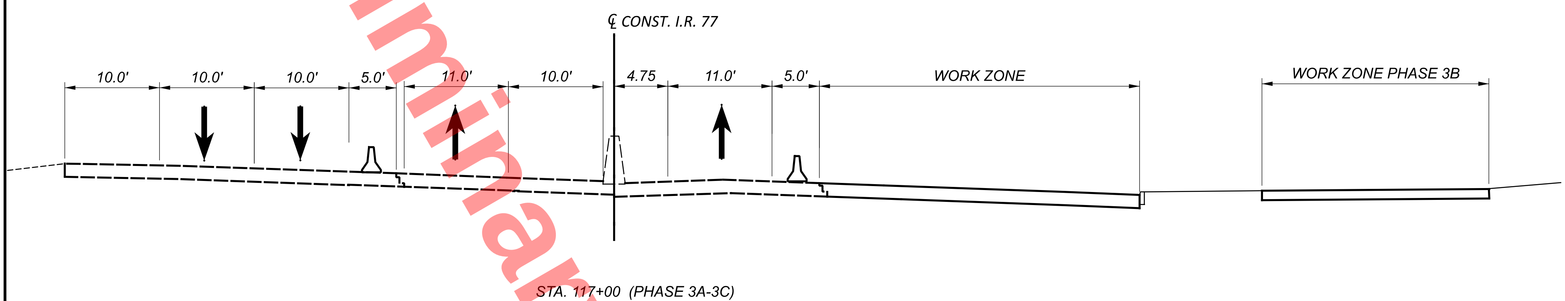
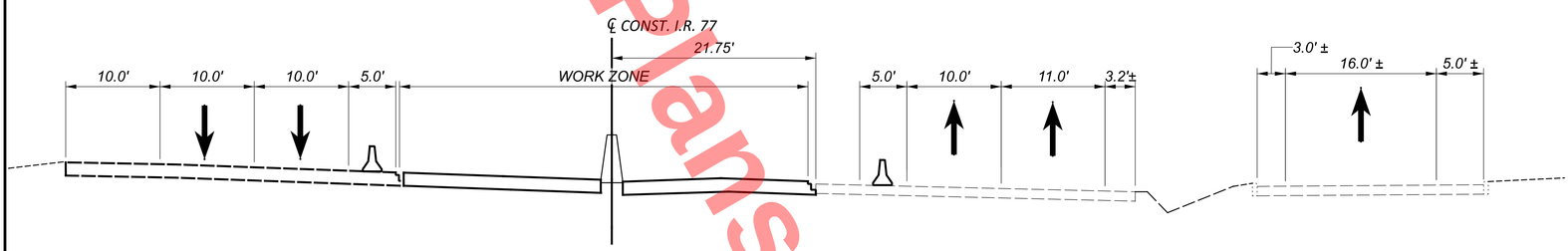
Preliminary Plans - For Reference Only




STA. 117+00 (PHASE 3A-3C)

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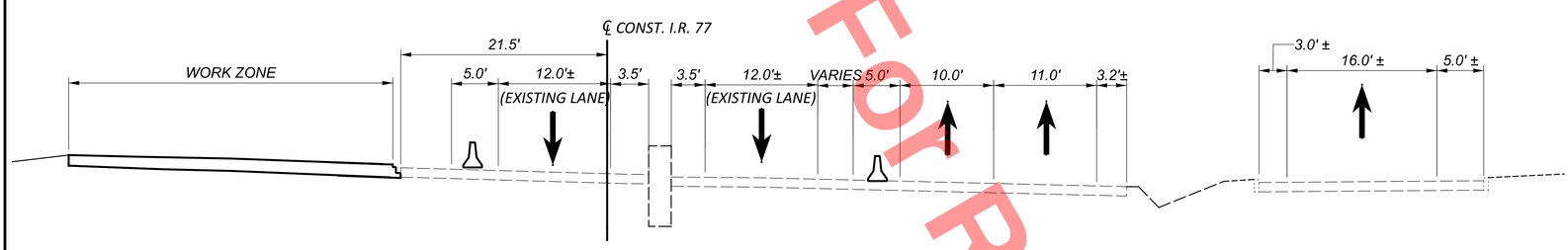
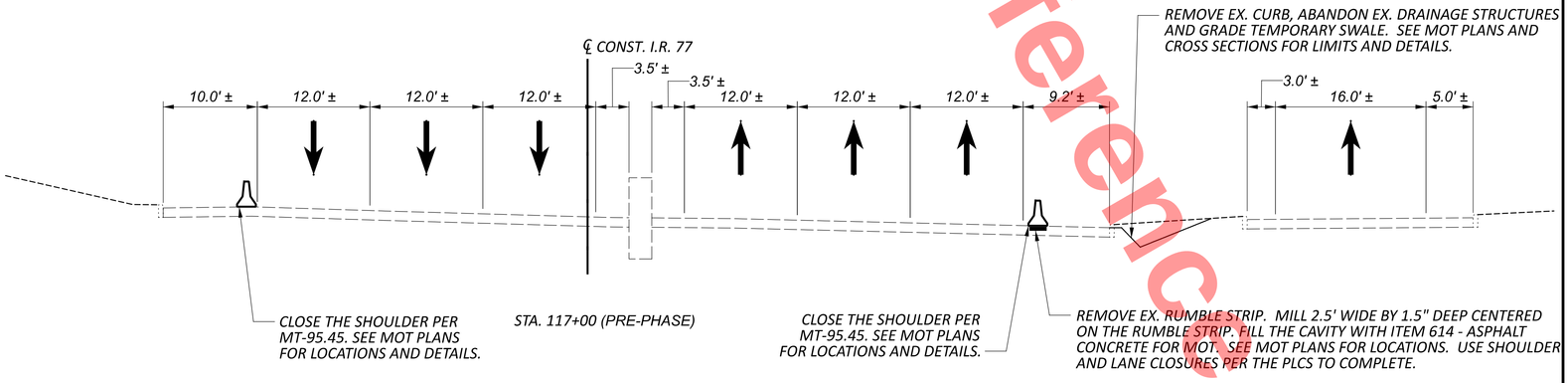



STA. 117+00 (PHASE 1A-1C)

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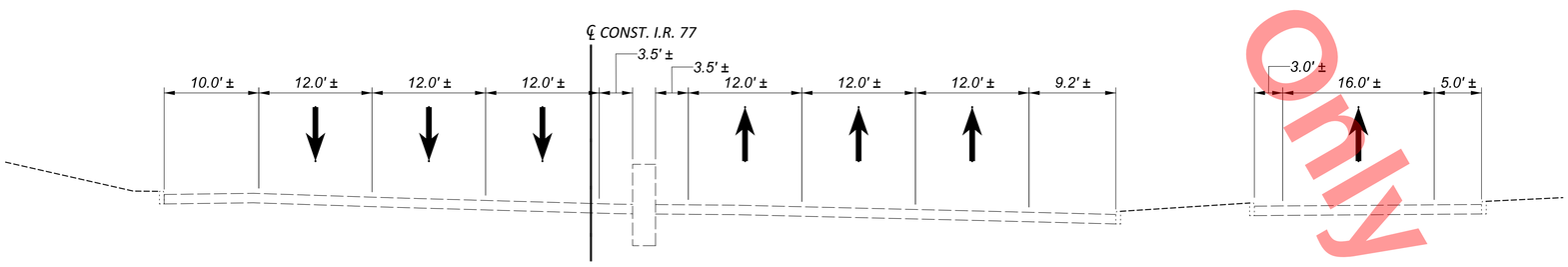


STA. 117+00 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.40 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

DESIGN AGENCY: HNTB

# MOT TYPICAL SECTIONS
# STA. 117+00.00

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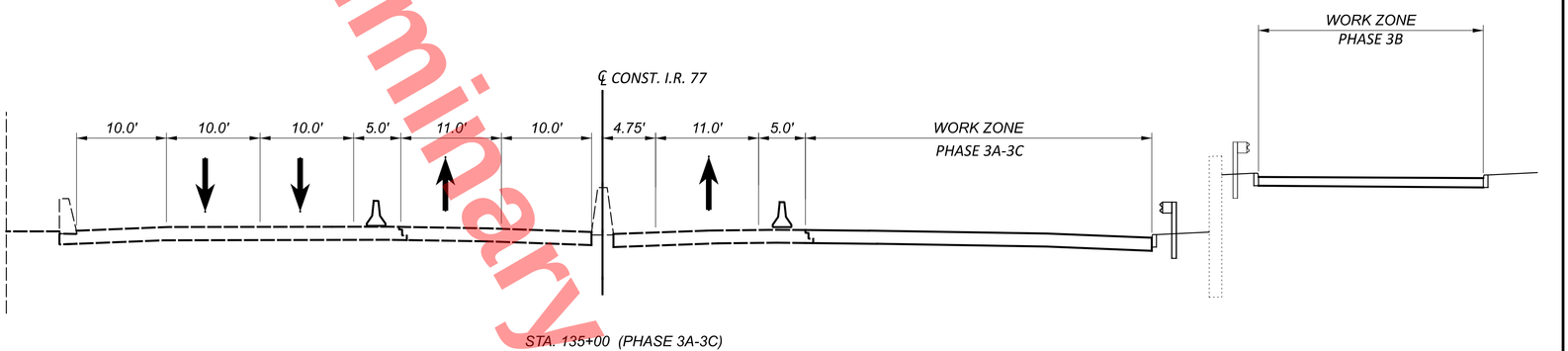
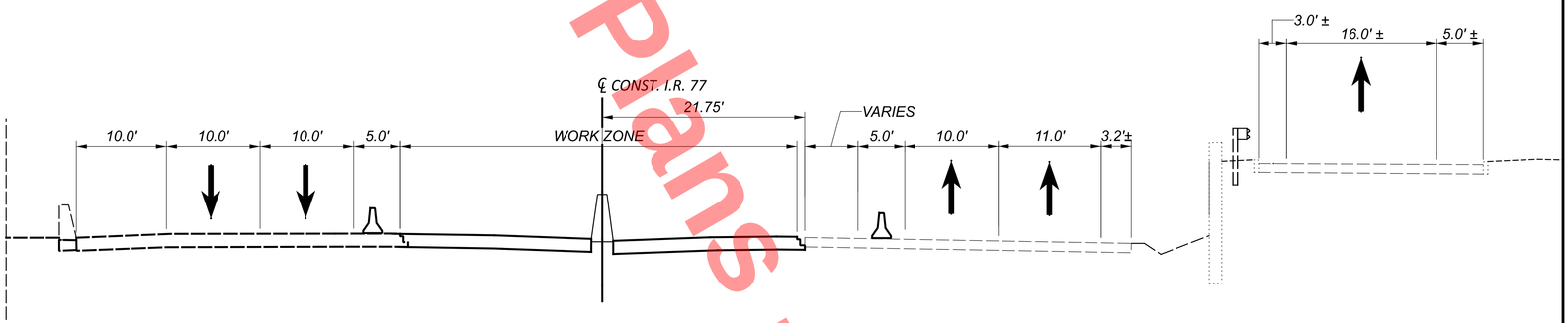
Preliminary Plans - For Reference Only




STA. 135+00 (PHASE 3A-3C)

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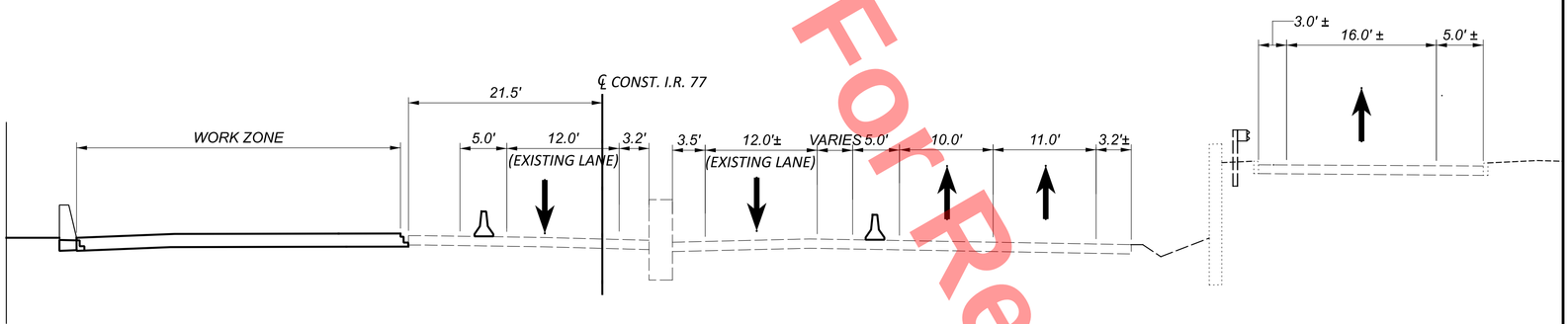


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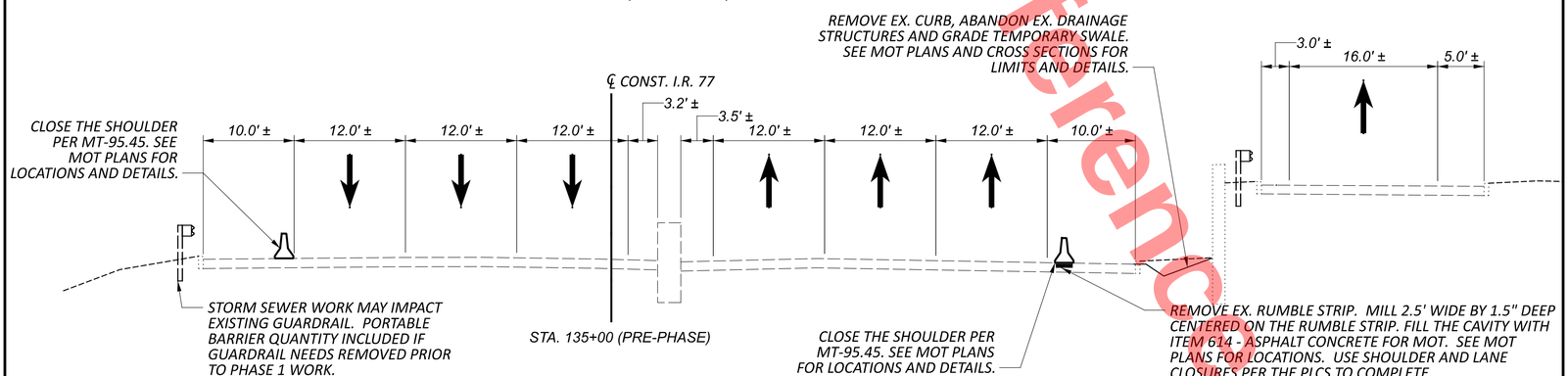


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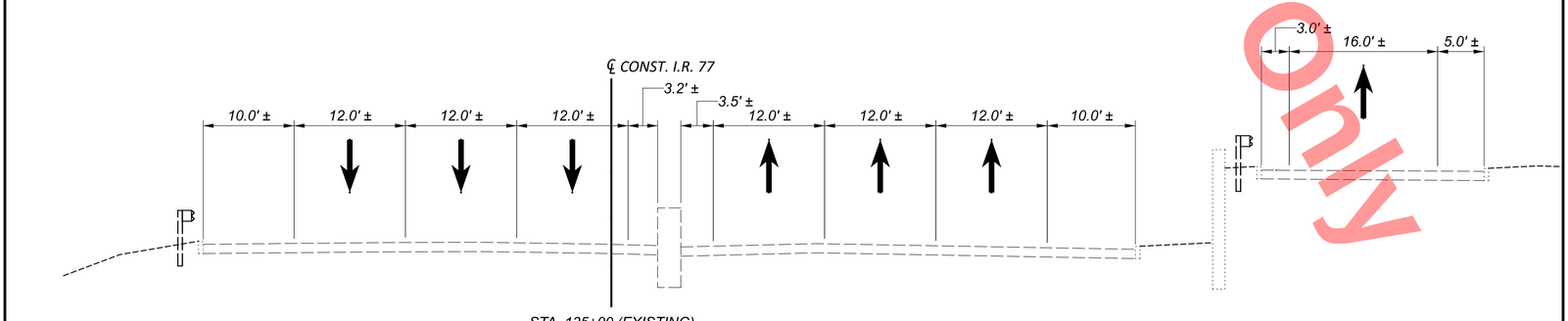


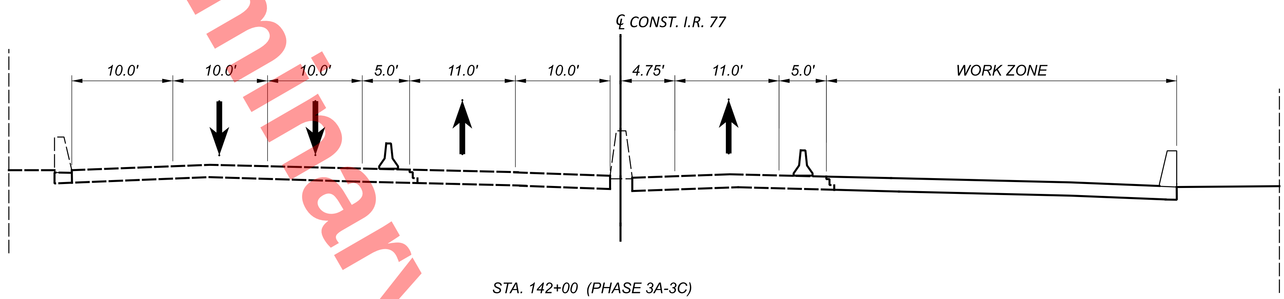

STA. 135+00 (EXISTING)

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | | DESIGN AGENCY |
|---|---|---|---|---|---|---|
| P.41 | P.1135 | 105743 | MTR 11/20/25 | MTD | HNTB | |

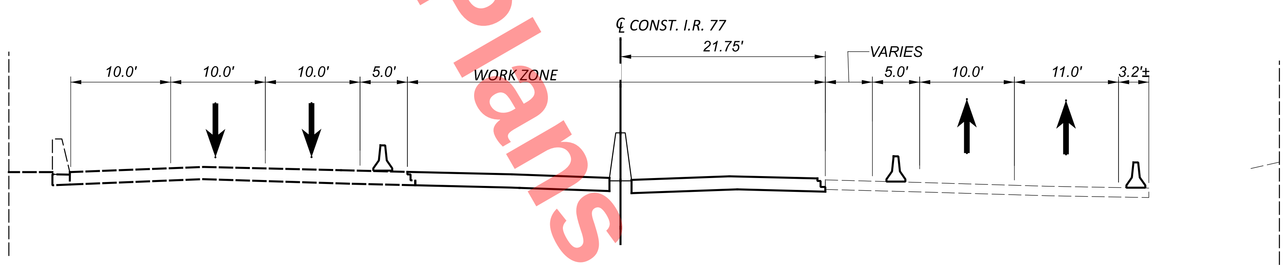
# MOT TYPICAL SECTIONS
# STA. 135+00.00

MODEL: Sheet7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:25 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

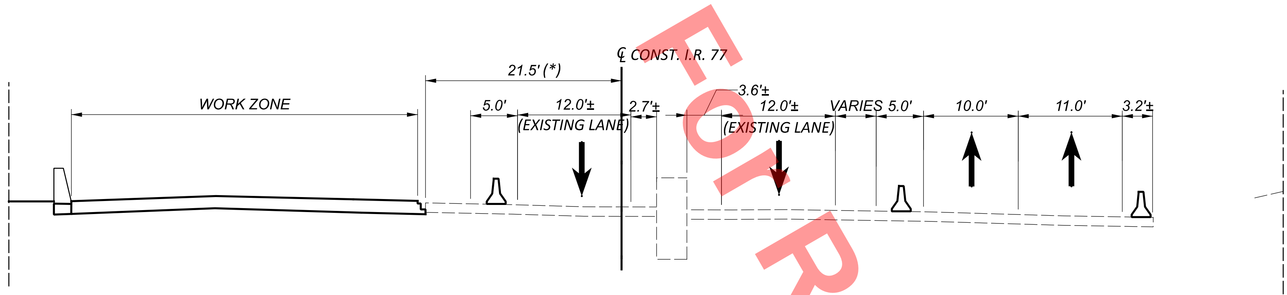
Preliminary Plans - For Reference Only




STA. 142+00 (PHASE 3A-3C)

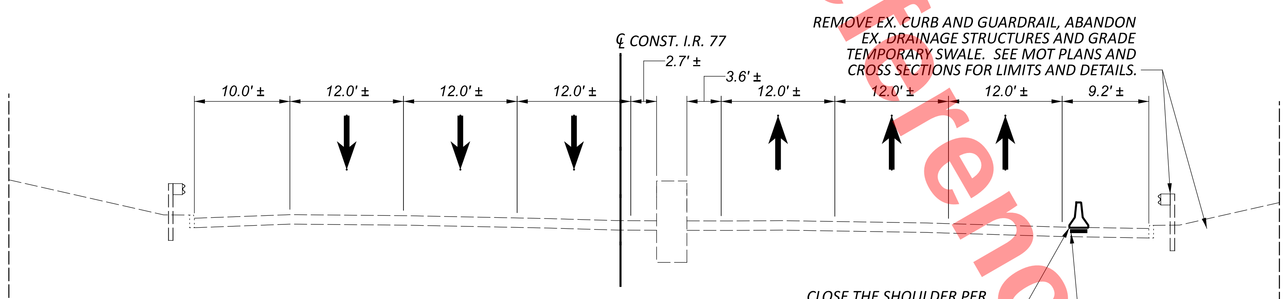



STA. 142+00 (PHASE 2)




STA. 142+00 (PHASE 1A-1C)

(*) - SAWCUT LOCATION VARIES 21.5' AT STA 145+00 TO 25.5' AT STA. 147+00
25.5' STA. 147+00 TO STA. 148+00
VARIES 25.5' AT STA. 148+00 TO 21.5' AT STA. 152+00

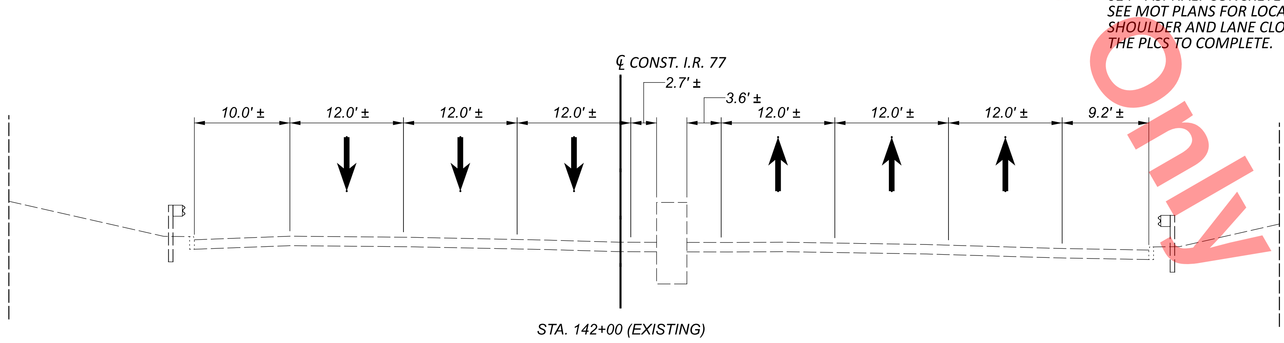



STA. 142+00 (PRE-PHASE)

REMOVE EX. CURB AND GUARDRAIL, ABANDON EX. DRAINAGE STRUCTURES AND GRADE TEMPORARY SWALE. SEE MOT PLANS AND CROSS SECTIONS FOR LIMITS AND DETAILS.

CLOSE THE SHOULDER PER MT-95.45, SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.




STA. 142+00 (EXISTING)

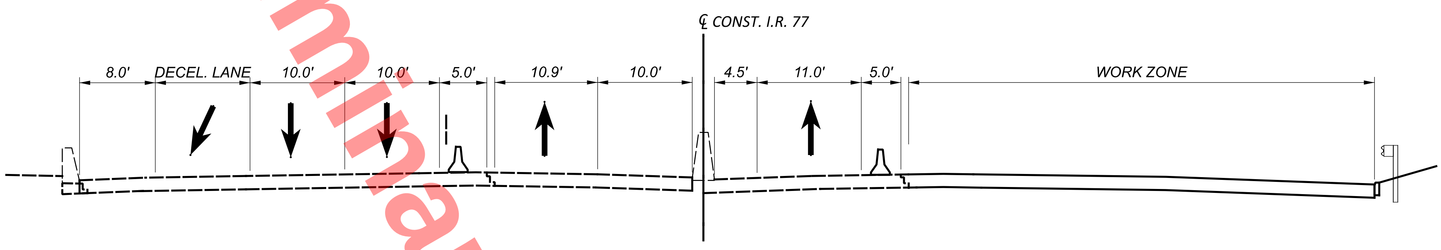
| DESIGNER | REVIEWER | PROJECT ID | SHEET | TOTAL |
|---|---|---|---|---|
| MTD | MTR 11/20/25 | 105743 | P.42 | P.1135 |

DESIGN AGENCY: HNTB

# MOT TYPICAL SECTIONS
# STA. 142+00.00

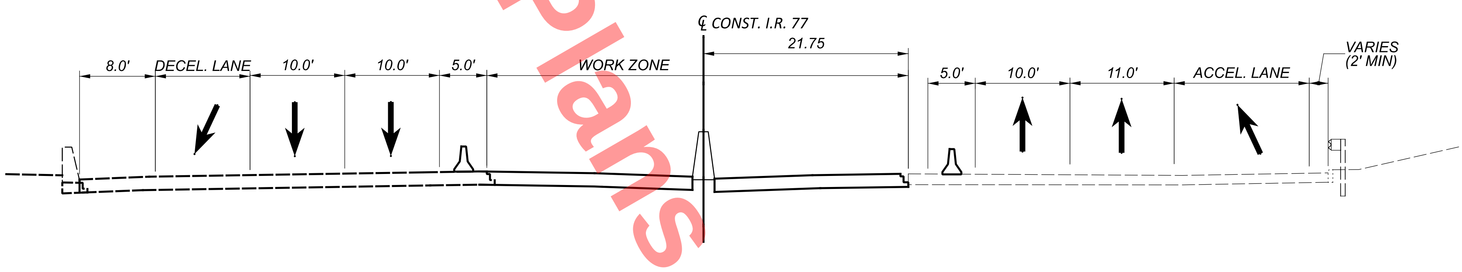
MODEL: Sheet8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:25 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

Preliminary Plans - For Reference Only

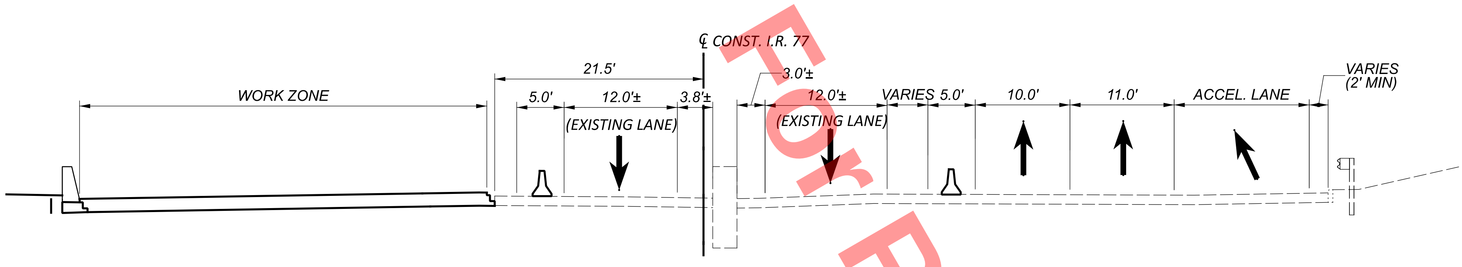



STA. 154+00 (PHASE 3A-3C**)

**- NB I-77 SHOWN IN PHASE 3B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 3A AND 3C

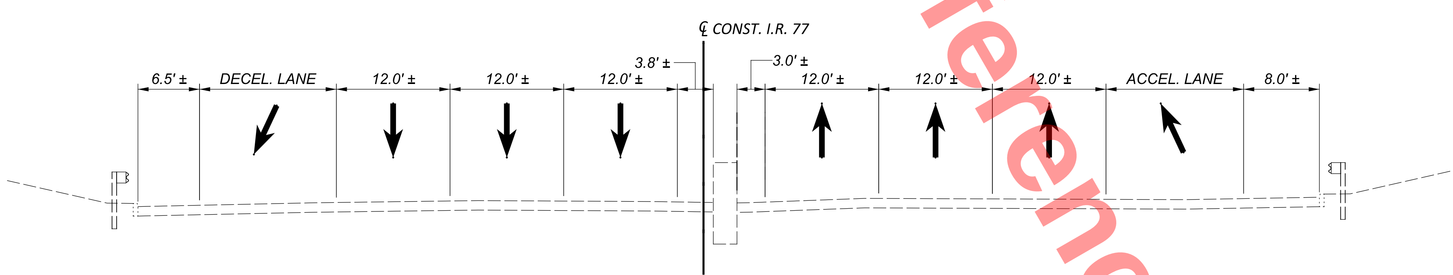



STA. 154+00 (PHASE 2)

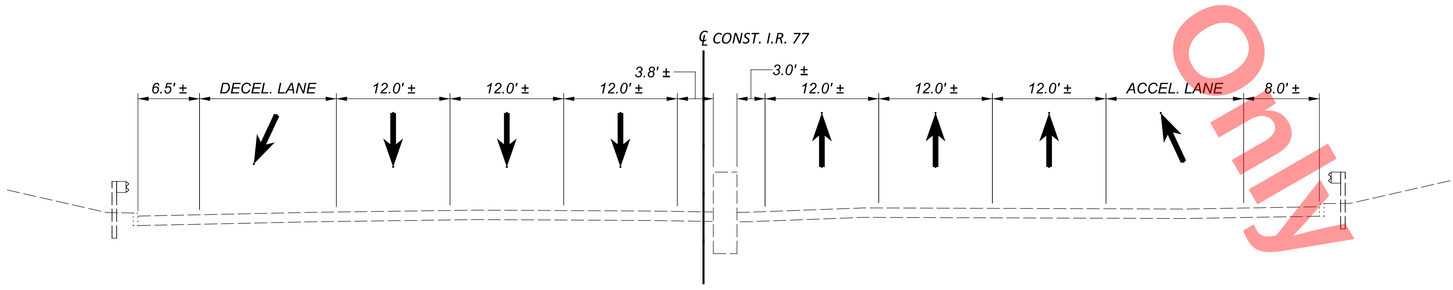



STA. 154+00 (PHASE 1A-1C*)

*- SB I-77 SHOWN IN PHASE 1B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 1A AND 1C




STA. 154+00 (PRE-PHASE)




STA. 154+00 (EXISTING)

| SHEET | TOTAL |
|---|---|
| P.43 | P.1135 |

PROJECT ID: 105743

REVIEWER: MTR 11/20/25

DESIGNER: MTD

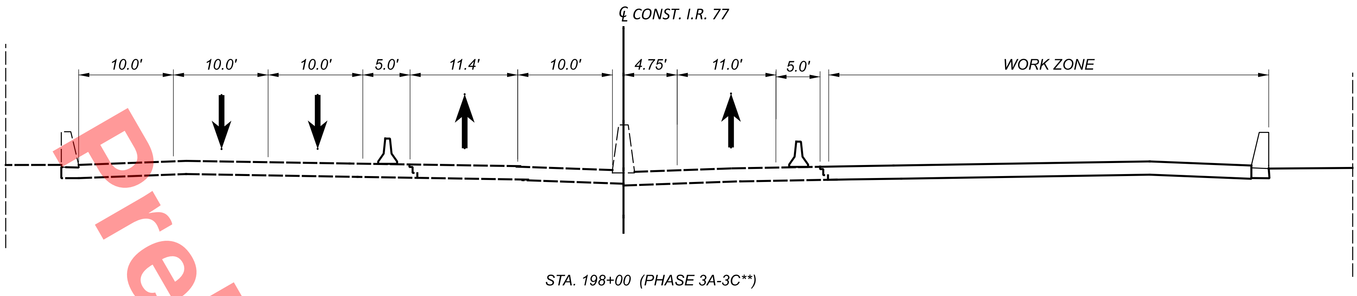
HNTB

DESIGN AGENCY

# MOT TYPICAL SECTIONS
# STA. 154+00.00

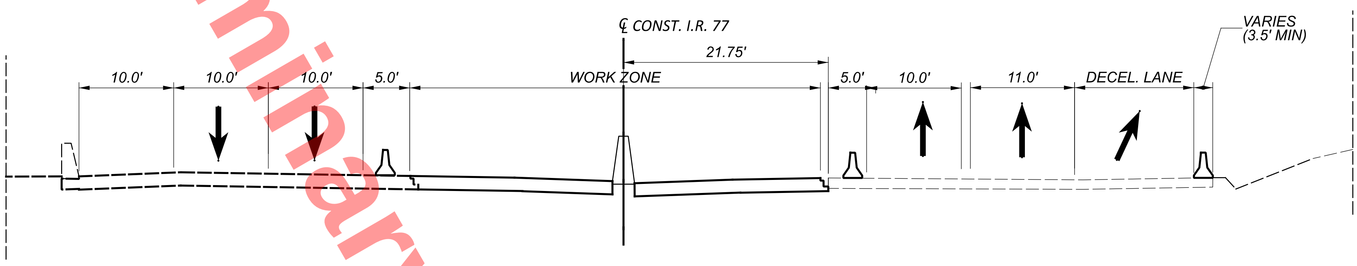
MODEL: Sheet9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:26 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

Preliminary Plans - For Reference Only

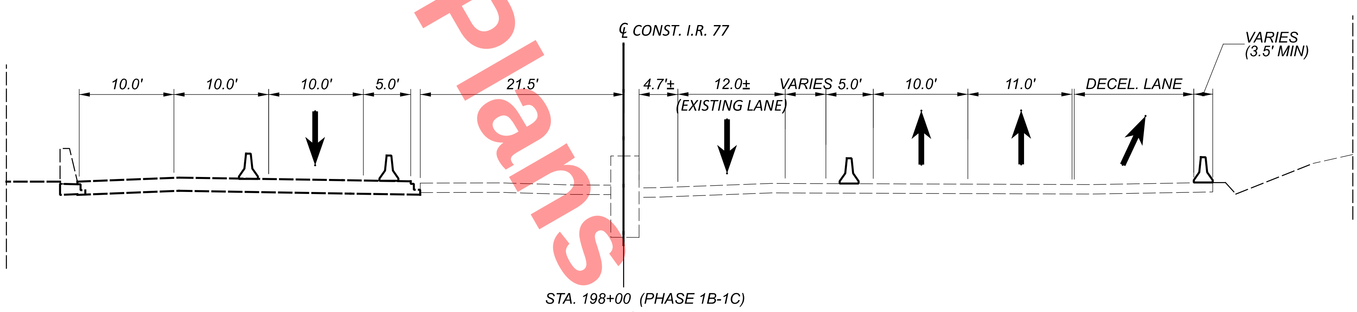



STA. 198+00 (PHASE 3A-3C**)

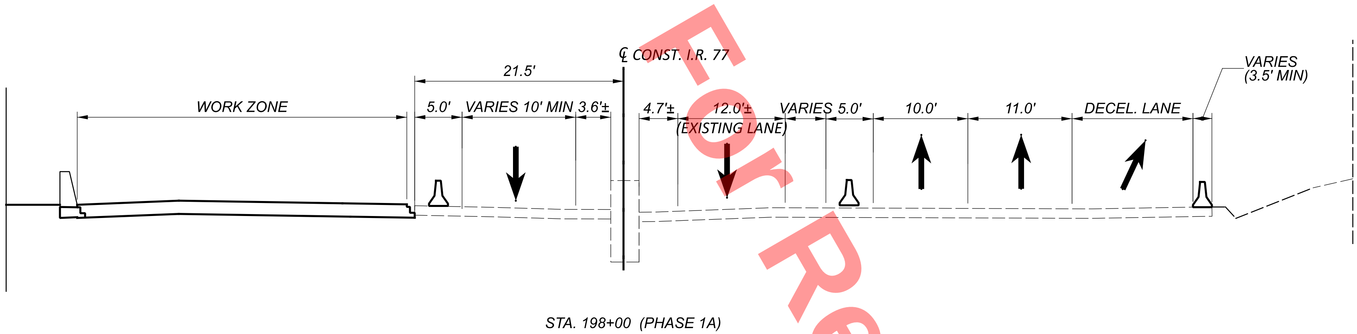
**- NB I-77 SHOWN IN PHASE 3B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 3A AND 3C




STA. 198+00 (PHASE 2)



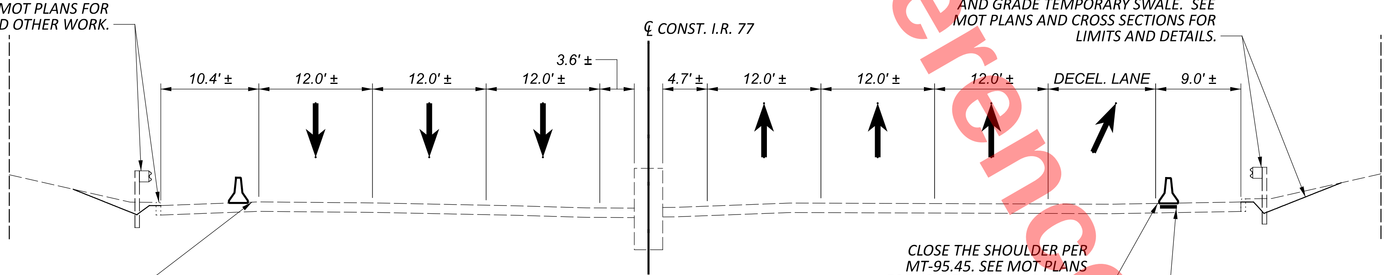

STA. 198+00 (PHASE 1B-1C)




STA. 198+00 (PHASE 1A)

EX. CURB AND GUARDRAIL IMPACTED BY STORM SEWER WORK. PLACE TEMP SWALE PER MOT CROSS SECTIONS. SEE MOT PLANS FOR LOCATIONS AND OTHER WORK.

REMOVE EX. CURB AND GUARDRAIL, ABANDON EX. DRAINAGE STRUCTURES AND GRADE TEMPORARY SWALE. SEE MOT PLANS AND CROSS SECTIONS FOR LIMITS AND DETAILS.

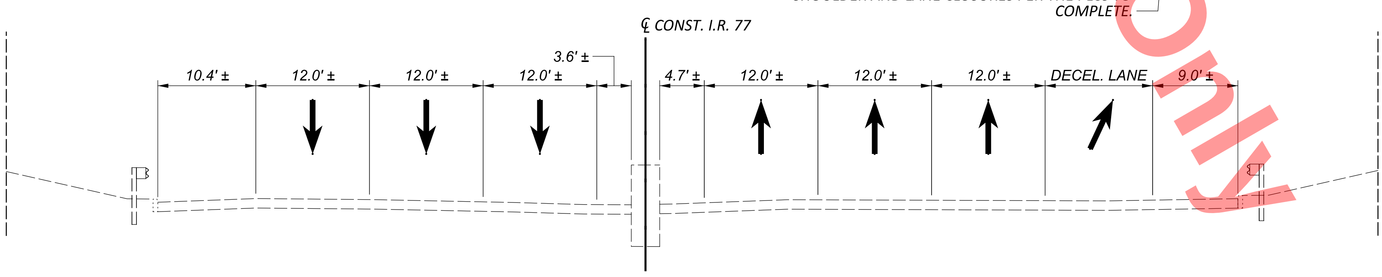



STA. 198+00 (PRE-PHASE)

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.



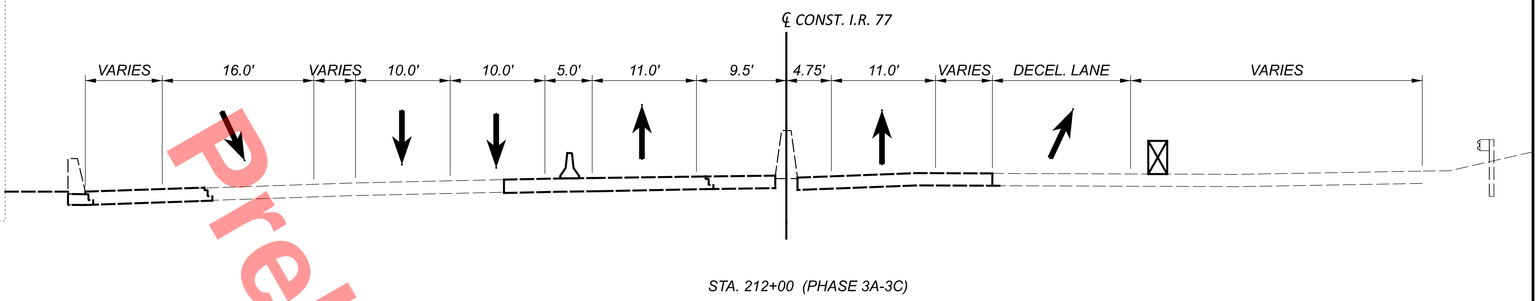

STA. 198+00 (EXISTING)

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | | DESIGN AGENCY |
|---|---|---|---|---|---|---|
| P.44 | P.1135 | 105743 | MTR 11/20/25 | MTD | HNTB | |

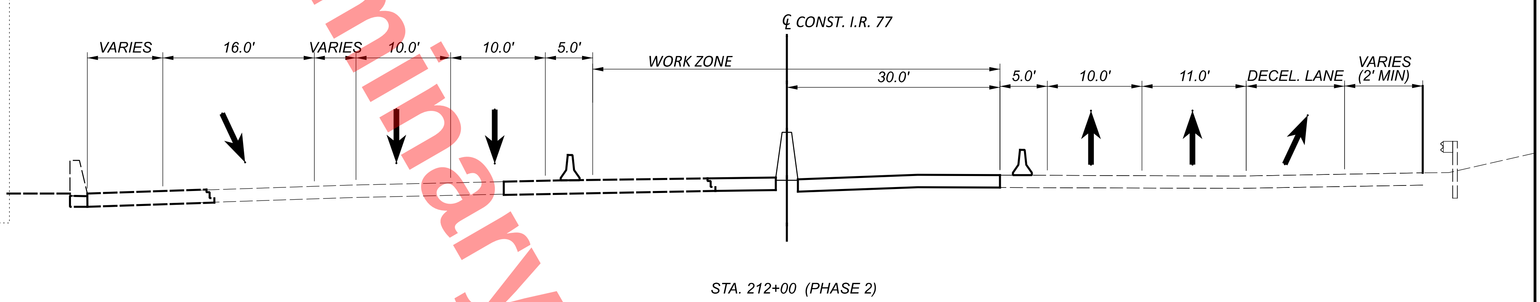
# MOT TYPICAL SECTIONS
# STA. 198+00.00

MODEL: Sheet10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:26 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

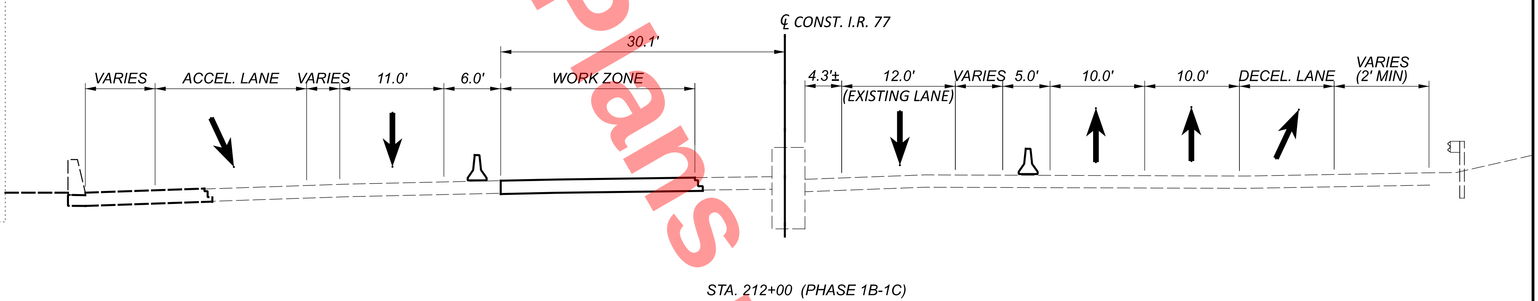
Preliminary Plans - For Reference Only



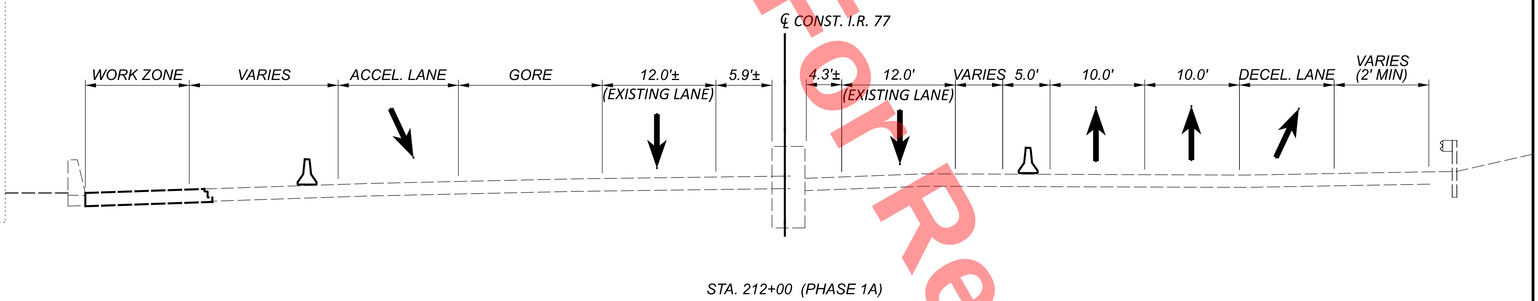

STA. 212+00 (PHASE 3A-3C)



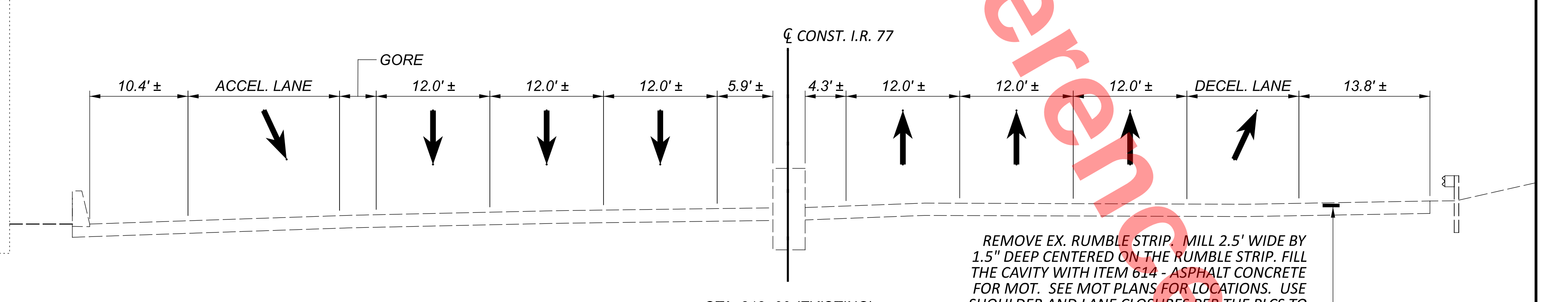

STA. 212+00 (PHASE 2)




STA. 212+00 (PHASE 1B-1C)

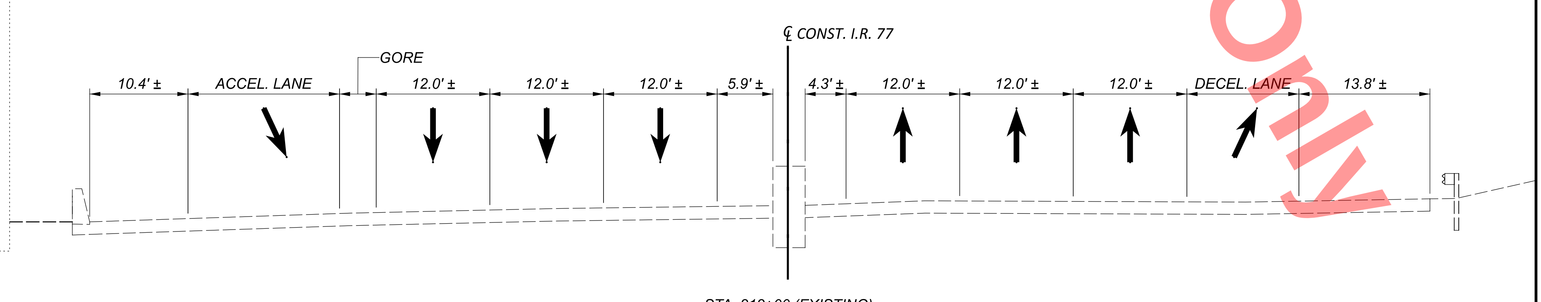



STA. 212+00 (PHASE 1A)




REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5"' DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.

STA. 212+00 (EXISTING)




STA. 212+00 (EXISTING)

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | | DESIGN AGENCY |
|---|---|---|---|---|---|---|
| P.45 | P.1135 | 105743 | MTR 11/20/25 | MTD | HNTB | |

# MOT TYPICAL SECTIONS
# STA. 212+00.00

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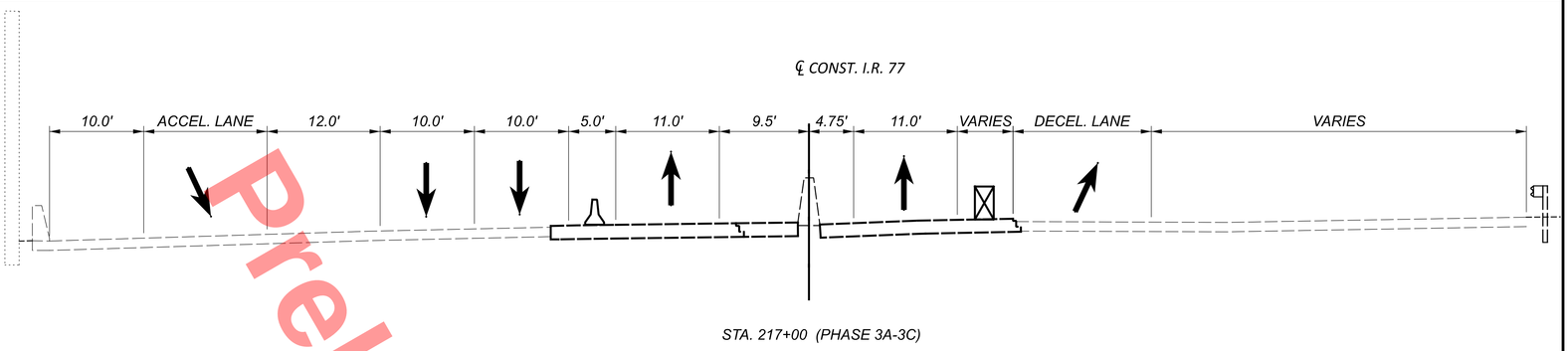
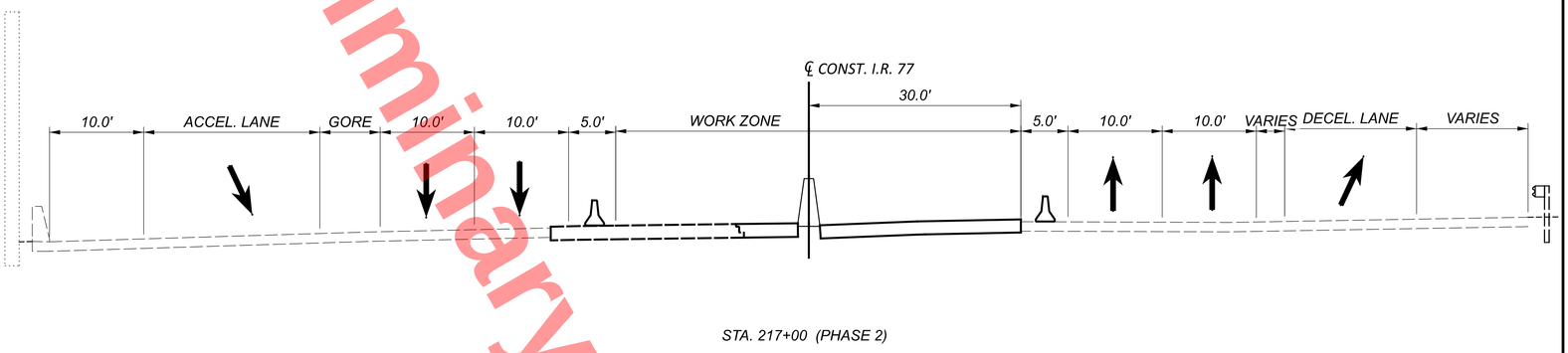
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

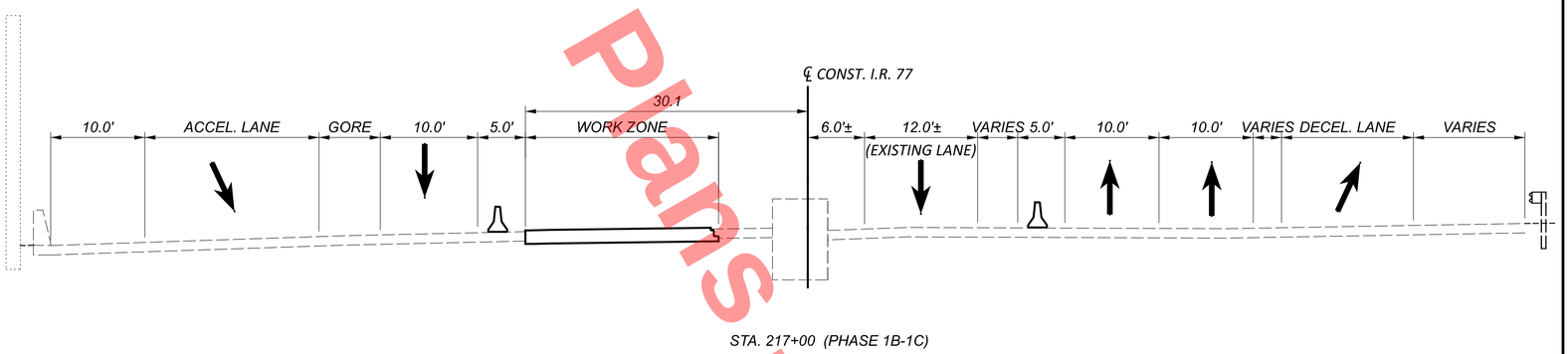
Preliminary Plans - For Reference Only



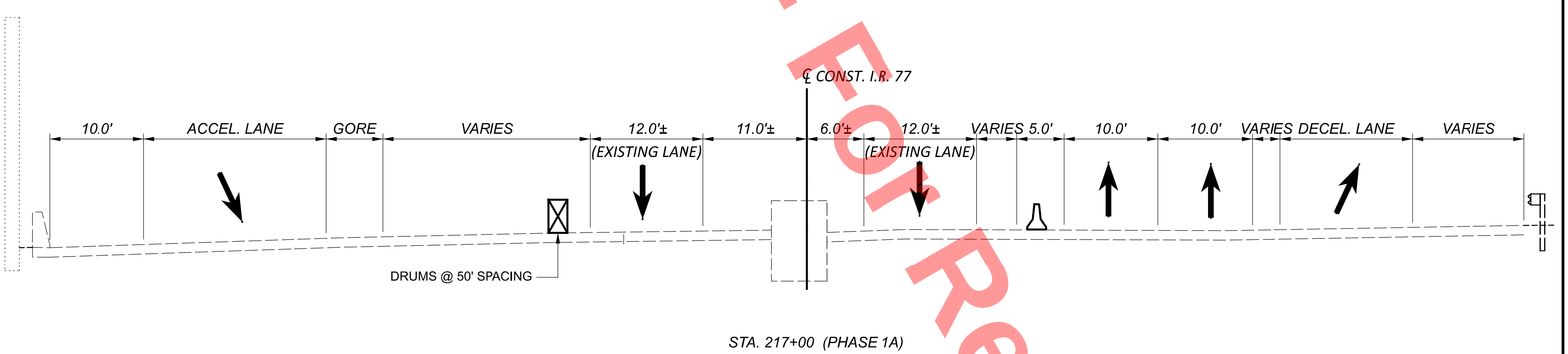

STA. 217+00 (PHASE 3A-3C)



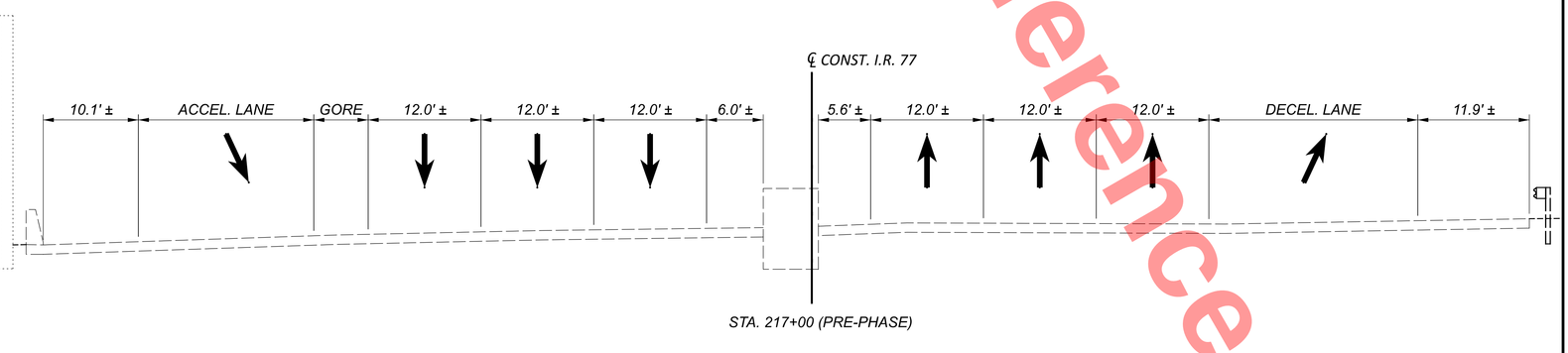

STA. 217+00 (PHASE 2)



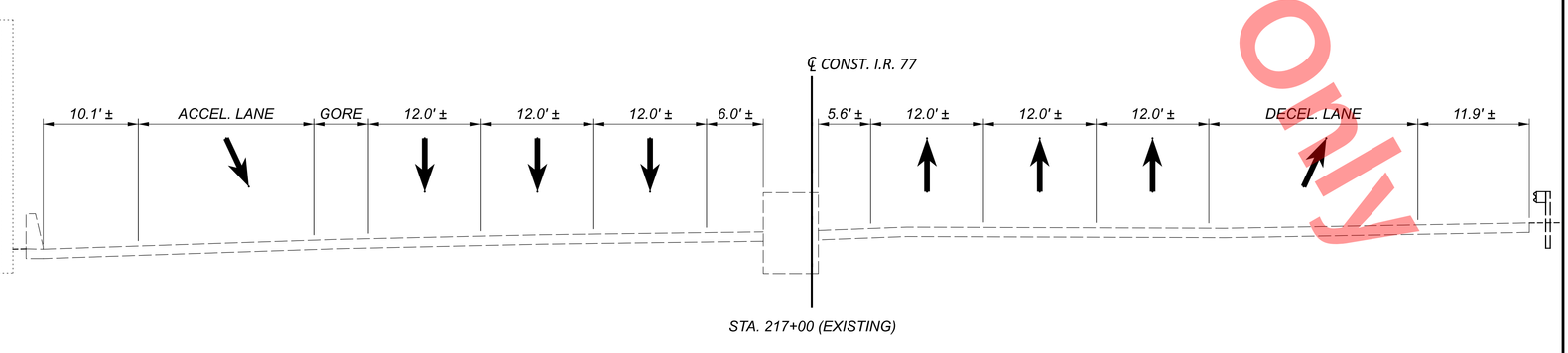

STA. 217+00 (PHASE 1B-1C)




STA. 217+00 (PHASE 1A)




STA. 217+00 (PRE-PHASE)



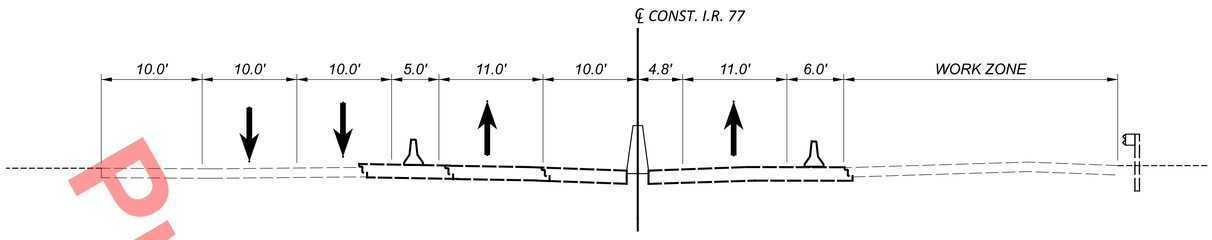

STA. 217+00 (EXISTING)

| SHEET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|
| P.46 | 105743 | MTR 11/20/25 | MTD | HNTB |
| TOTAL P.1135 | | | | |

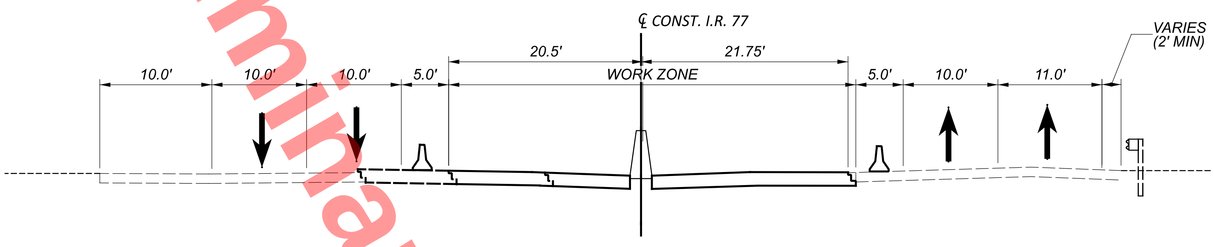
# MOT TYPICAL SECTIONS
# STA. 217+00.00

MODEL: Sheet12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

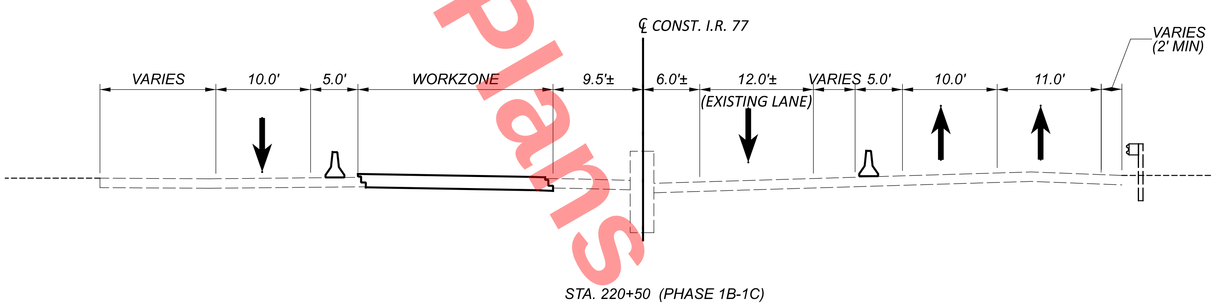
Preliminary Plans - For Reference Only



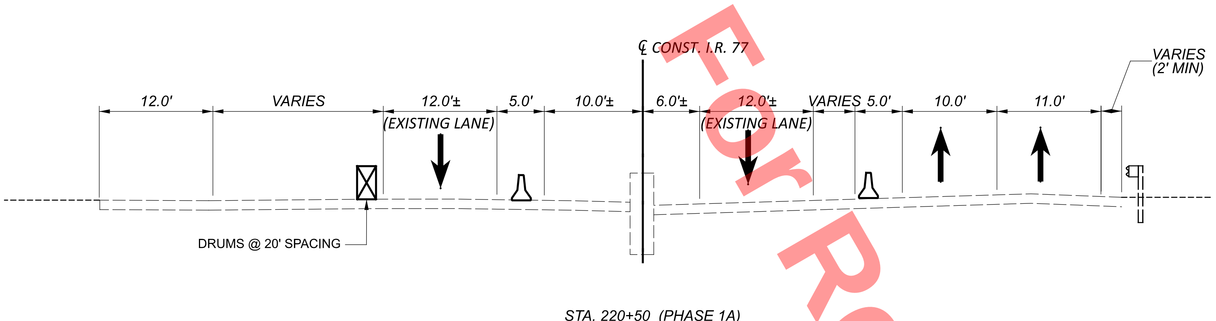

STA. 220+50 (PHASE 3A-3C)



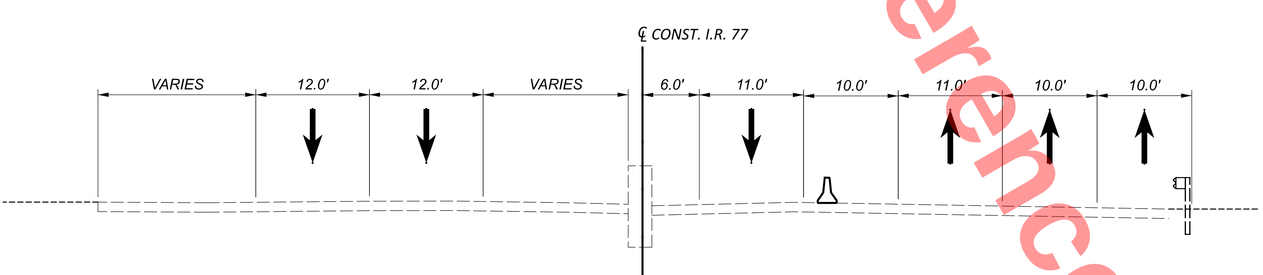

STA. 220+50 (PHASE 2)



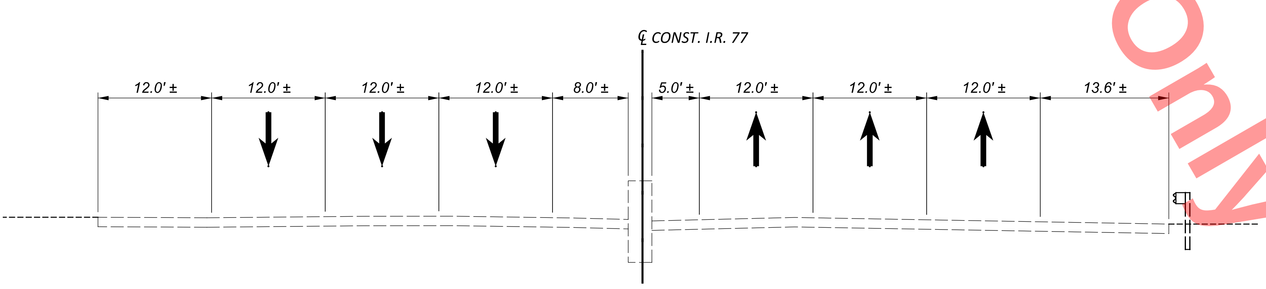

STA. 220+50 (PHASE 1B-1C)




STA. 220+50 (PHASE 1A)




STA. 220+50 (PRE-PHASE)

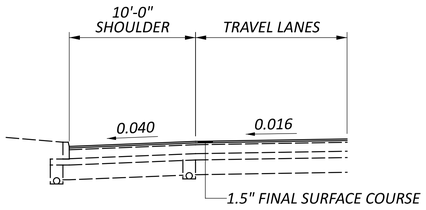



STA. 220+50 (EXISTING)

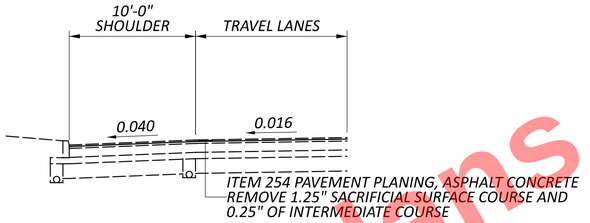
| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.47 | P.1135 | 105743 | MTR 11/20/25 | MTD | HNTB |

# MOT TYPICAL SECTIONS
# STA. 220+50.00

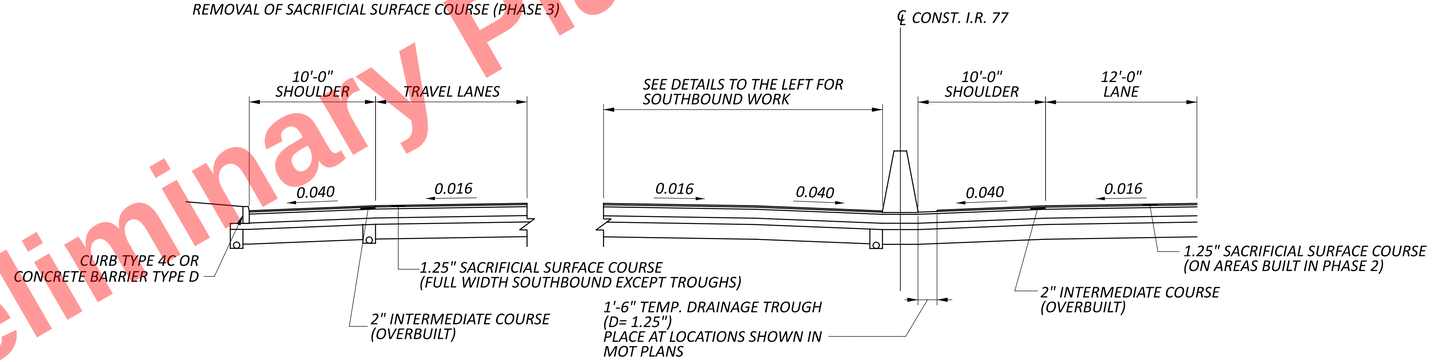
Preliminary Plans - For Reference Only




PLACING FINAL ASPHALT SURFACE COURSE (PHASE 3)




REMOVAL OF SACRIFICIAL SURFACE COURSE (PHASE 3)




NORMAL SECTION - I.R. 77

NORTHBOUND INSIDE SHOULDER AT CONCLUSION OF PHASE 2 MOT
SOUTHBOUND OUTSIDE SHOULDER SACRIFICIAL COURSE (PHASE 1)

MAINTENANCE OF TRAFFIC
MISCELLANEOUS DRAINAGE DETAIL

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.188 TOTAL P.1135

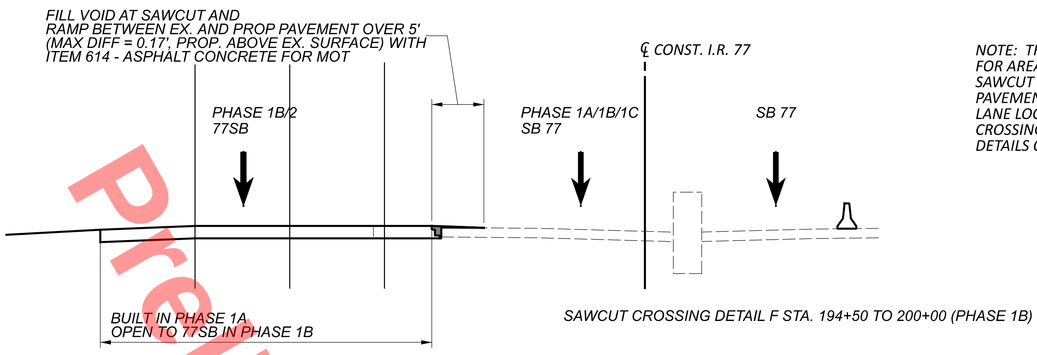
CUY-77-11.43 - PART 1

MODEL: Group 1 - Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 9:22:20 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\s00-Engineering\MOT\Sheets\105743_MM003.dgn

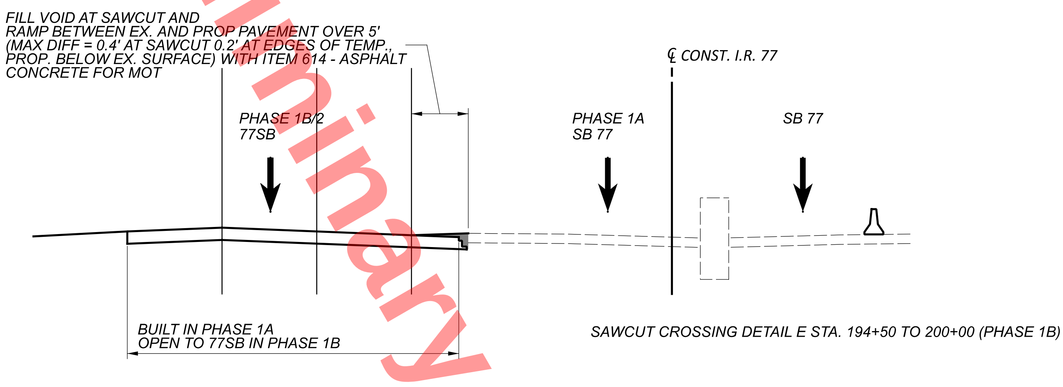
MODEL: Unnamed Plan-1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:40 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Basemaps\105743_MY001.dgn

Preliminary Plans - For Reference Only

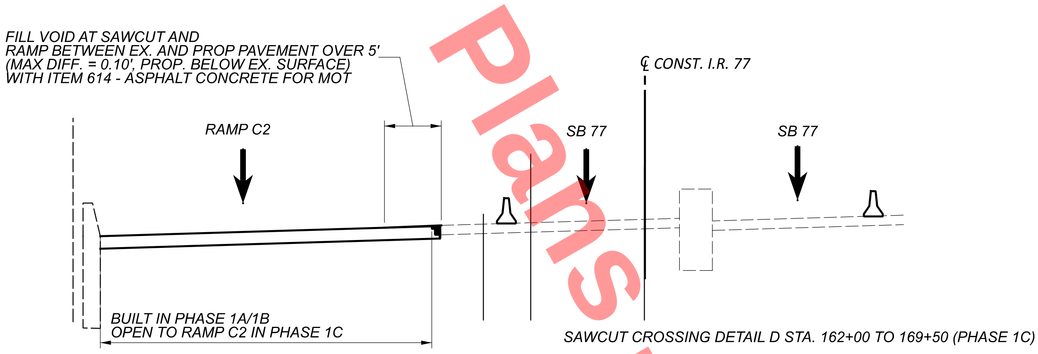
NOTE: THIS SHEET PROVIDES DETAIL ON TREATMENTS FOR AREAS THAT TRAFFIC WILL NEED TO CROSS THE SAWCUT LINE BETWEEN PROPOSED AND EXISTING PAVEMENT SURFACES. THE ARROWS INDICATE THE LANE LOCATIONS BEFORE AND AFTER THE CROSSINGS. SEE THE MOT PLANS FOR MORE DETAILS OF THE CROSSING LOCATIONS.



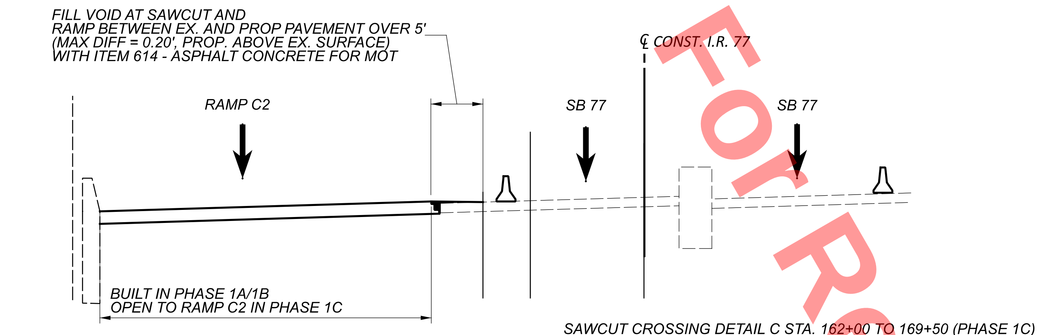

SAWCUT CROSSING DETAIL F STA. 194+50 TO 200+00 (PHASE 1B)



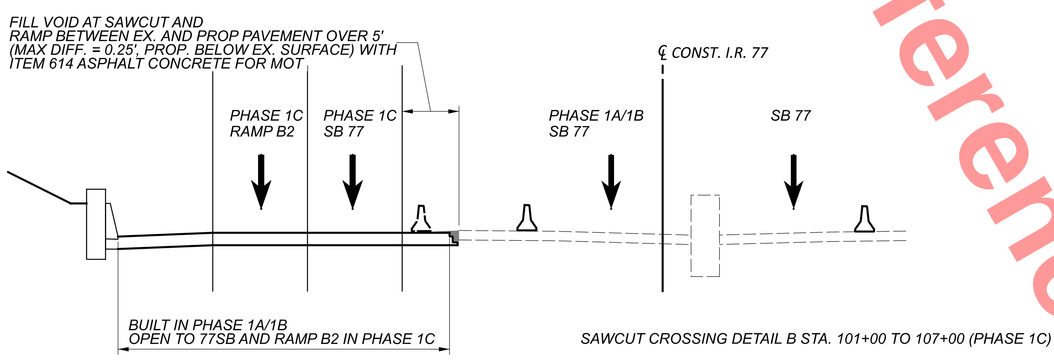

SAWCUT CROSSING DETAIL E STA. 194+50 TO 200+00 (PHASE 1B)



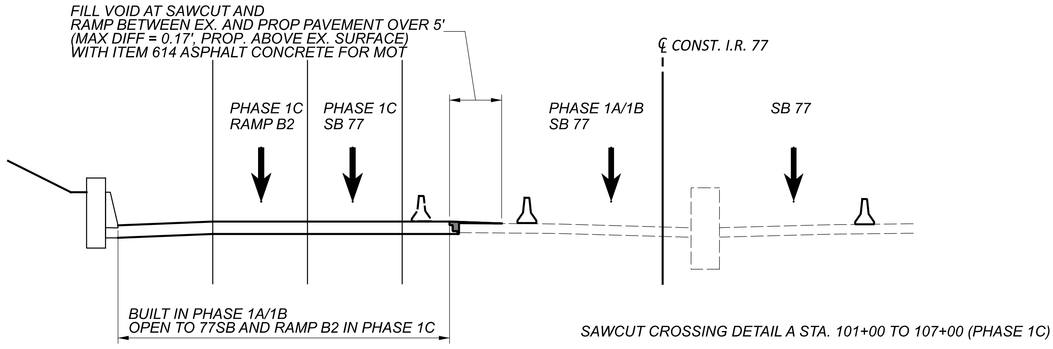

SAWCUT CROSSING DETAIL D STA. 162+00 TO 169+50 (PHASE 1C)




SAWCUT CROSSING DETAIL C STA. 162+00 TO 169+50 (PHASE 1C)




SAWCUT CROSSING DETAIL B STA. 101+00 TO 107+00 (PHASE 1C)




SAWCUT CROSSING DETAIL A STA. 101+00 TO 107+00 (PHASE 1C)

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | | DESIGN AGENCY |
|---|---|---|---|---|---|---|
| P.0 | 0 | 0 | XXX MM-DD-YY | XXX | HNTB | |

# MAINTENANCE OF TRAFFIC
# PHASE JOINT CROSSING DETAILS

MODEL: Unnamed Plan-2 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:41 PM USER: kperkins
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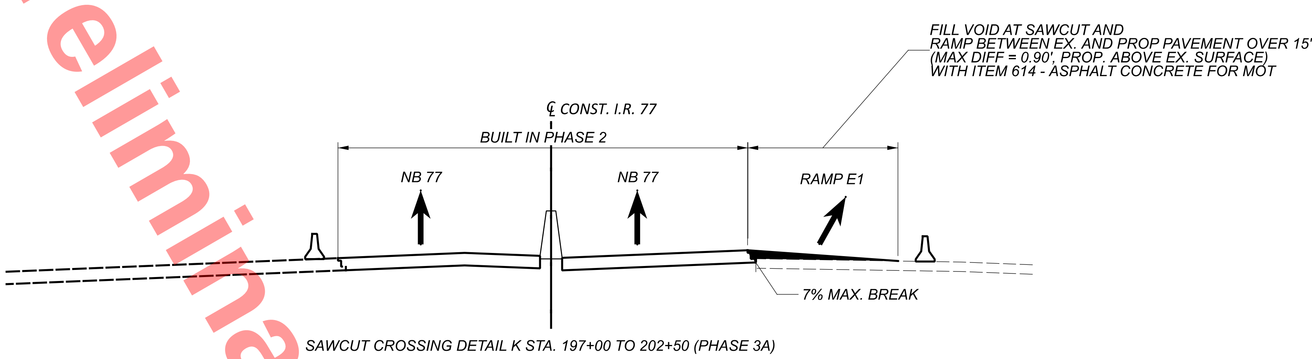
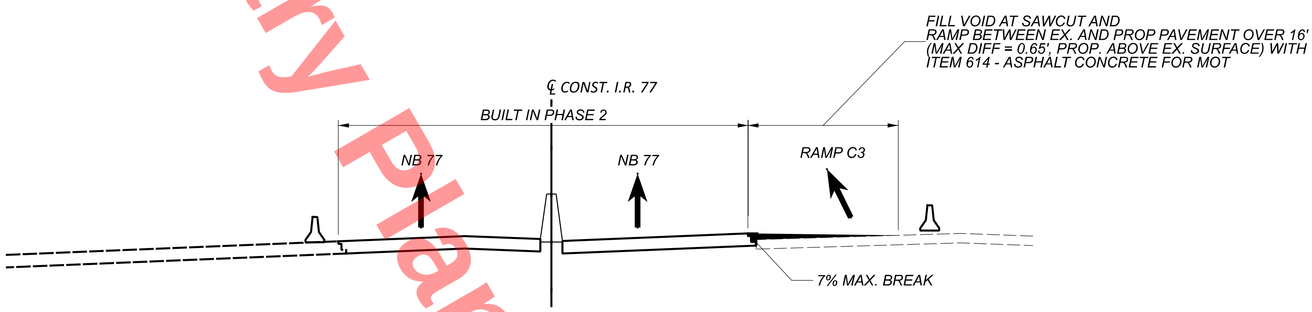
*NOTE: THIS SHEET PROVIDES DETAIL ON TREATMENTS FOR AREAS THAT TRAFFIC WILL NEED TO CROSS THE SAWCUT LINE BETWEEN PROPOSED AND EXISTING PAVEMENT SURFACES. THE ARROWS INDICATE THE LANE LOCATIONS BEFORE AND AFTER THE CROSSINGS. SEE THE MOT PLANS FOR MORE DETAILS OF THE CROSSING LOCATIONS.*

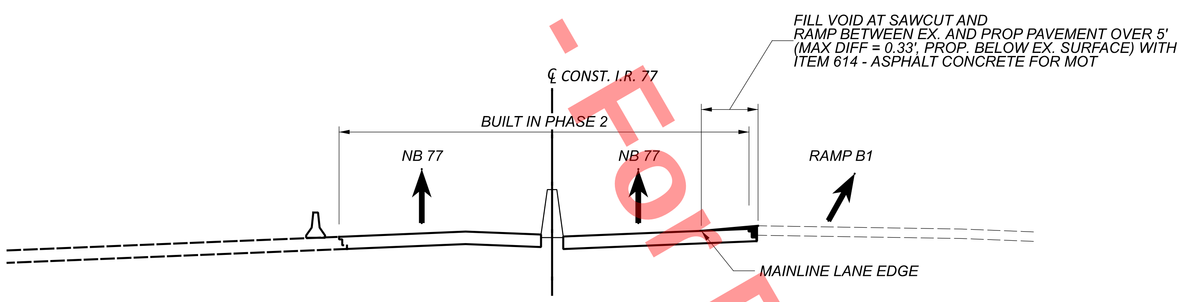
Preliminary Plans - For Reference Only



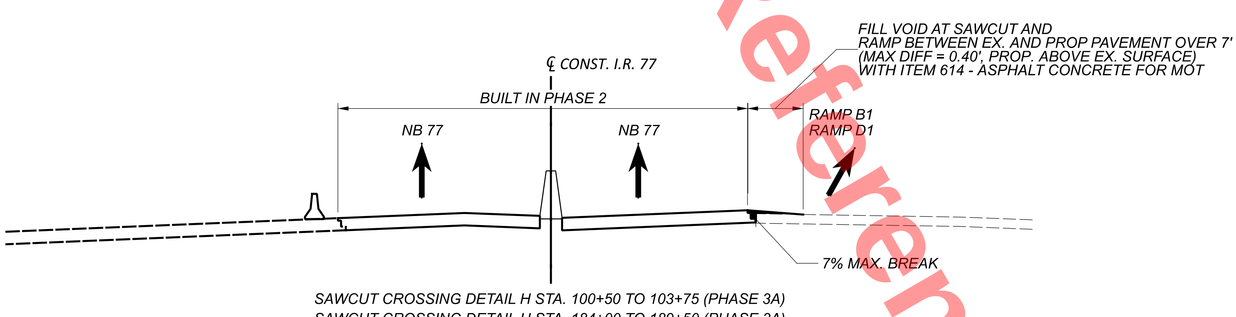

SAWCUT CROSSING DETAIL K STA. 197+00 TO 202+50 (PHASE 3A)



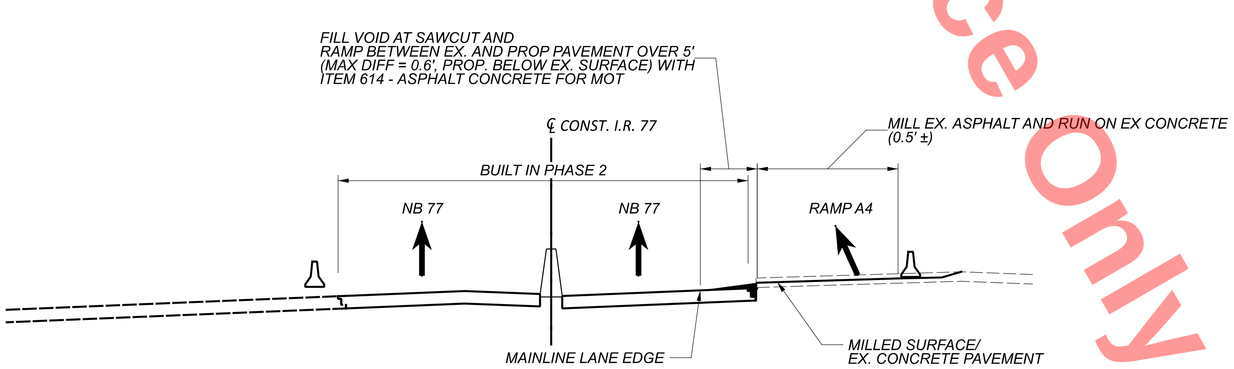

SAWCUT CROSSING DETAIL J STA. 159+00 TO 169+00 (PHASE 3A)




SAWCUT CROSSING DETAIL I STA. 103+75 TO 106+50 (PHASE 3A)




SAWCUT CROSSING DETAIL H STA. 100+50 TO 103+75 (PHASE 3A)
SAWCUT CROSSING DETAIL H STA. 184+00 TO 189+50 (PHASE 3A)




SAWCUT CROSSING DETAIL G STA. 84+00 TO 95+00 (PHASE 3A)

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | | DESIGN AGENCY |
|---|---|---|---|---|---|---|
| P.0 | 0 | 0 | XXX MM-DD-YY | XXX | HNTB | |

# MAINTENANCE OF TRAFFIC
# PHASE JOINT CROSSING DETAILS

1 — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — RAMP CLOSED AHEAD — W-20-3-48

2 — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR AHEAD — W-20-2-48

3 — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR — M4-8-24 — M6-3-21

4a — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR — M4-H9R-30

4b — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR — M4-H9L-30

5 — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR — M4-9L-30

6 — NORTH — INTERSTATE 77 — M3-1-24 — M1-1-24-2 — DETOUR — M4-9R-30

7 — ROAD CLOSED — R11-2-48
*MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS*

8 — END DETOUR — M4-8A-24

9 — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — RAMP CLOSED AHEAD — W-20-3-48

10 — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR AHEAD — W-20-2-48

11 — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR — M4-8-24 — M6-3-21

12a — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR — M4-H9R-30

12b — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR — M4-H9L-30

13 — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR — M4-9L-30

14 — SOUTH — INTERSTATE 77 — M3-3-24 — M1-1-24-2 — DETOUR — M4-9R-30

- *RAMP WORK AREA*
- *DETOUR ROUTE*

*NOTE: ALL M3, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE*

** - PLACEMENT AND SPACING OF SIGNS IN THE DETOUR LEGEND ARE INTENDED FOLLOW GUIDANCE PER MT-98.30*

E 55TH ST

HARVARD AVE

NEWBURGH SOUTH SHORE RAILROAD LINE

RAMP CLOSED PER MT-98.30

PLACE BLACK ON ORANGE " CLOSED" TEMPORARY OVERLAY ON BOTH SIDES OF EX. CANTILEVER OVERHEAD GUIDE SIGNS

TRAFFIC SIGNAL

RAMP A1

RAMP A4 (CLOSED)

RAMP A2

RAMP A3

TRAFFIC SIGNAL

GRANT AVE

CLOSE WB LEFT TURN LANE TO RAMP B2 PER MT-98.30

PLACE BLACK ON ORANGE "CLOSED" TEMPORARY OVERLAY ON BOTH SIDES OF EX. CANTILEVER OVERHEAD GUIDE SIGNS

77

RAMP B1

RAMP B2 (CLOSED)

RAMP CLOSED PER MT-98.30
CLOSE WB LEFT TURN LANE AND EB RIGHT TURN LANE TO RAMP B2 PER MT-98.30

RAMP B4

RAMP C1

RAMP B3

TRAFFIC SIGNAL

WASHINGTON PARK BLVD

TRAFFIC SIGNAL

E 49TH ST

TRAFFIC SIGNAL

*NOTE: FOR ALL DRIVEWAYS ALONG GRANT AVENUE BETWEEN E.49TH STREET AND I-77 SB PLACE SIGN 5 OR 6 FACING THE DRIVEWAY TO DIRECT NB 77 TRAFFIC TO USE THE HARVARD RAMP. ALONG E.49TH STREET BETWEEN GRANT AND HARVARD PLACE SIGN 5 OR 6 AND SIGN 13 OR 14 TO DIRECT TRAFFIC ACCORDINGLY*

*NOTE: THOUGH RAMPS A4 AND B2 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## GRANT AVENUE NB ENTRANCE (RAMP A4)/ HARVARD AVENUE SB ENTRANCE (RAMP B2)

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.51 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:48 PM USER: kperkins
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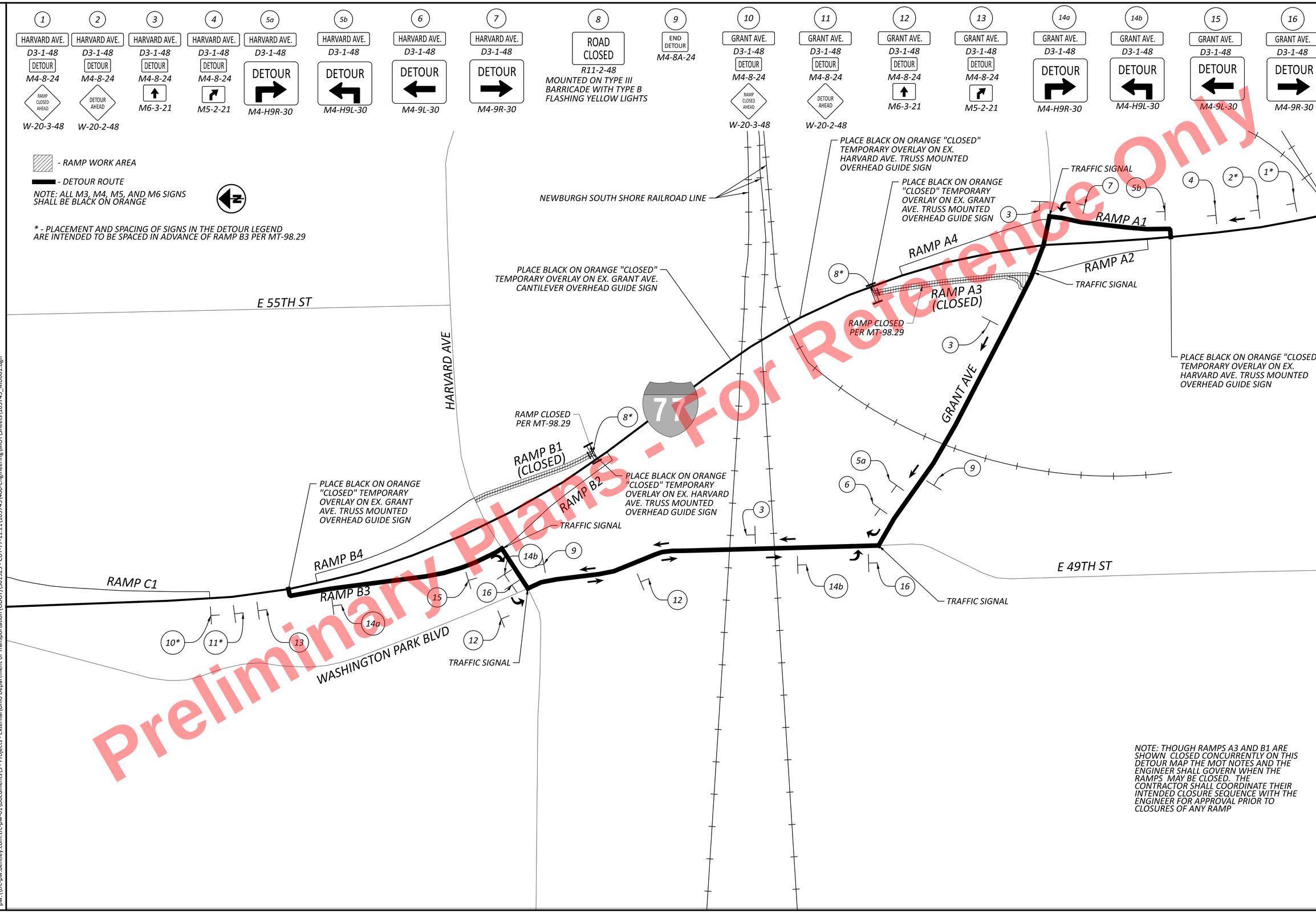


NOTE: THOUGH RAMPS A3 AND B1 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 125 250 500

# DETOUR PLAN
## GRANT AVENUE SB EXIT (RAMP A3)/ HARVARD AVENUE NB EXIT (RAMP B1)

DESIGN AGENCY HNTB

DESIGNER AS

REVIEWER KKP 11/20/25

PROJECT ID 105743

SHEET P.52 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:07:49 PM USER: kperkins
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1 — HARVARD AVE. / D3-1-48 / DETOUR / M4-8-24 / RAMP CLOSED AHEAD / W-20-3-48

2 — HARVARD AVE. / D3-1-48 / DETOUR / M4-8-24 / DETOUR AHEAD / W-20-2-48

3 — HARVARD AVE. / D3-1-48 / DETOUR / M4-8-24 / M6-3-21

4 — HARVARD AVE. / D3-1-48 / DETOUR / M4-8-24 / M5-2-21

5a — HARVARD AVE. / D3-1-48 / DETOUR / M4-H9R-30

5b — HARVARD AVE. / D3-1-48 / DETOUR / M4-H9L-30

6 — HARVARD AVE. / D3-1-48 / DETOUR / M4-9R-30

7 — ROAD CLOSED / R11-2-48
MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

8 — END DETOUR / M4-8A-24

9 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / RAMP CLOSED AHEAD / W-20-3-48

10 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR AHEAD / W-20-2-48

11 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR / M4-8-24 / M6-3-21

12a — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR / M4-H9R-30

12b — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR / M4-H9L-30

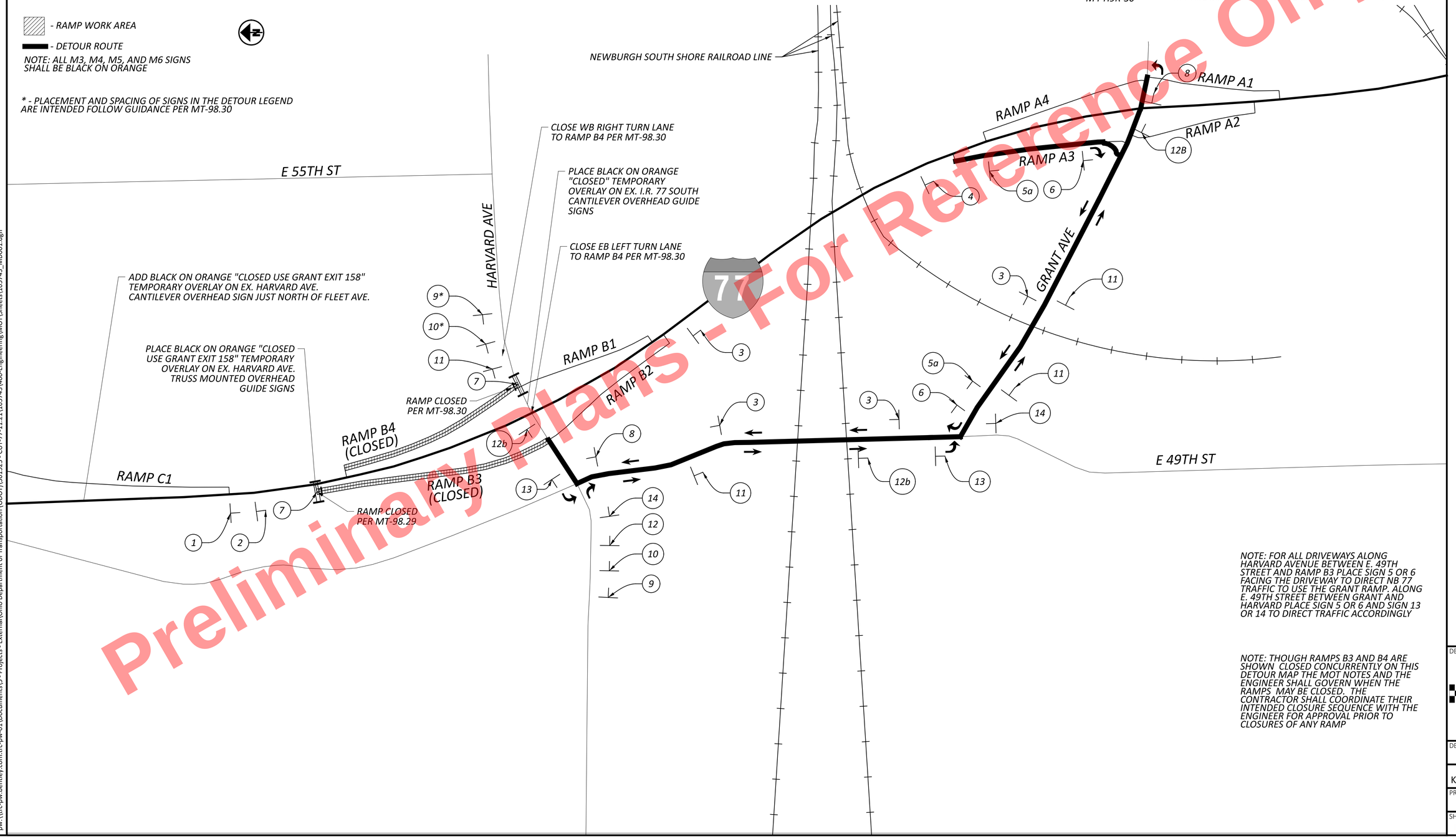
13 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR / M4-9L-30

14 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR / M4-9R-30

- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL M3, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

* - PLACEMENT AND SPACING OF SIGNS IN THE DETOUR LEGEND ARE INTENDED FOLLOW GUIDANCE PER MT-98.30




NOTE: FOR ALL DRIVEWAYS ALONG HARVARD AVENUE BETWEEN E. 49TH STREET AND RAMP B3 PLACE SIGN 5 OR 6 FACING THE DRIVEWAY TO DIRECT NB 77 TRAFFIC TO USE THE GRANT RAMP. ALONG E. 49TH STREET BETWEEN GRANT AND HARVARD PLACE SIGN 5 OR 6 AND SIGN 13 OR 14 TO DIRECT TRAFFIC ACCORDINGLY

NOTE: THOUGH RAMPS B3 AND B4 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## HARVARD AVENUE SB EXIT (RAMP B3)/ HARVARD AVENUE NB ENTRANCE (RAMP B4)

DESIGN AGENCY: HNTB

DESIGNER: AS
REVIEWER: KKP 11/20/25
PROJECT ID: 105743
SHEET: P.53 TOTAL: P.1135

CUY-77-11.43 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MD001.dgn

1 — FLEET AVENUE — D3-1-48 — RAMP CLOSED AHEAD — W20-3-48

2 — FLEET AVENUE — D3-1-48 — DETOUR AHEAD — W20-2-48

3 — FLEET AVENUE — D3-1-48 — DETOUR ↑ — M4-9-MOD (30" X 30")

4a — FLEET AVENUE — D3-1-48 — DETOUR → — M4-H9R-30

4b — FLEET AVENUE — D3-1-48 — DETOUR ← — M4-H9L-30

5 — FLEET AVENUE — D3-1-48 — DETOUR ↗ — M4-9R-MOD (30" X 30")

6 — FLEET AVENUE — D3-1-48 — DETOUR ← — M4-9L-30

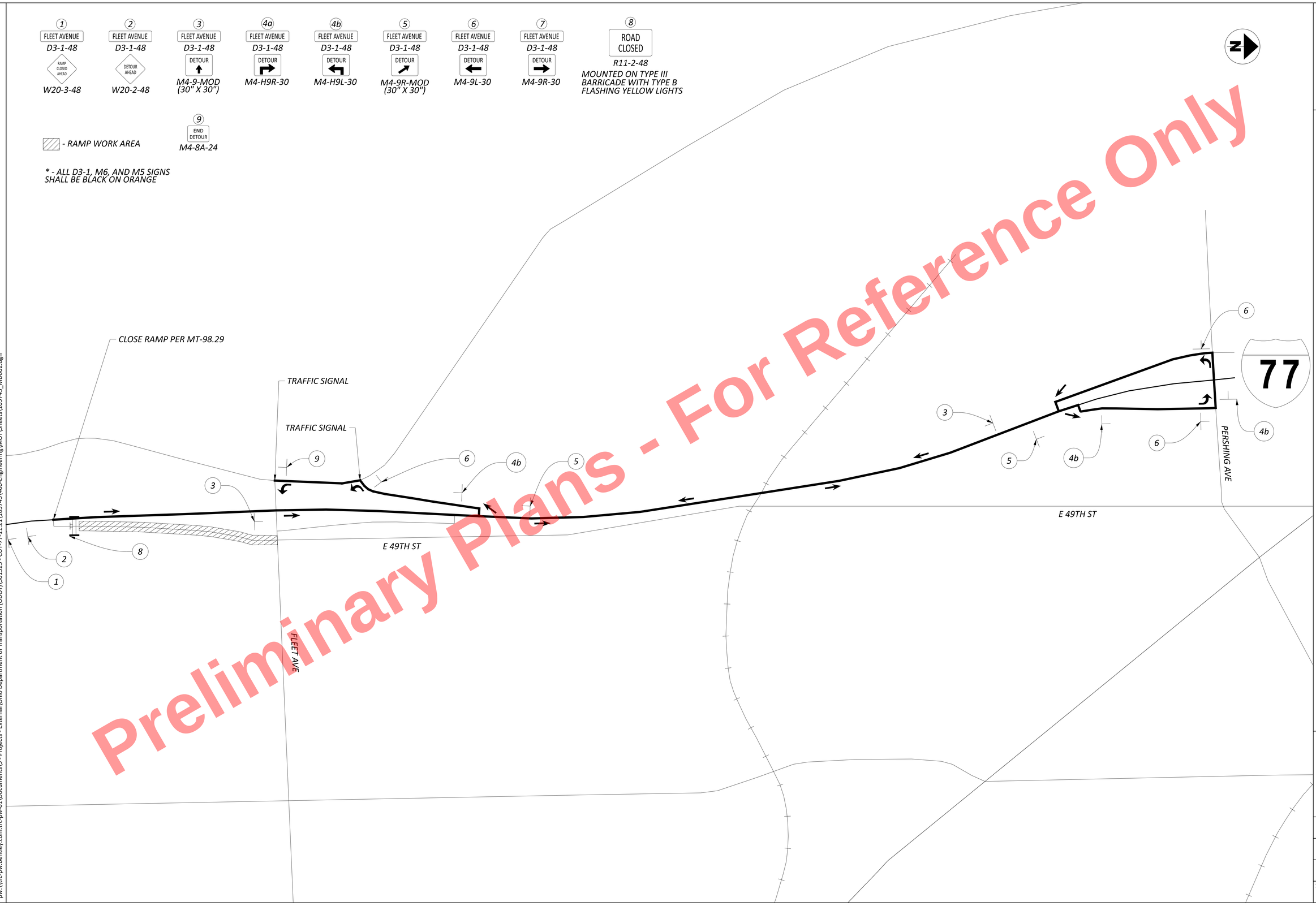
7 — FLEET AVENUE — D3-1-48 — DETOUR → — M4-9R-30

8 — ROAD CLOSED — R11-2-48
*MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS*

9 — END DETOUR — M4-8A-24

▨ - *RAMP WORK AREA*

** - ALL D3-1, M6, AND M5 SIGNS SHALL BE BLACK ON ORANGE*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## FLEET AVE NB EXIT (RAMP C1)

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 8:55:23 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\MOT\Sheets\105743_MD0002.dgn

DESIGN AGENCY
Lanham ENGINEERING LLC

| | |
|---|---|
| DESIGNER | ANC |
| REVIEWER | JAR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.54 |
| TOTAL | P.1135 |

1 — FLEET AVENUE — D3-1-48 — RAMP CLOSED AHEAD — W20-3-48

2 — FLEET AVENUE — D3-1-48 — DETOUR AHEAD — W20-2-48

3 — FLEET AVENUE — D3-1-48 — DETOUR ↑ — M4-9-MOD (30" X 30")

4a — FLEET AVENUE — D3-1-48 — DETOUR → — M4-H9R-30

4b — FLEET AVENUE — D3-1-48 — DETOUR ← — M4-H9L-30

5 — FLEET AVENUE — D3-1-48 — DETOUR ↗ — M4-9R-MOD (30" X 30")

6 — FLEET AVENUE — D3-1-48 — DETOUR ← — M4-9L-30

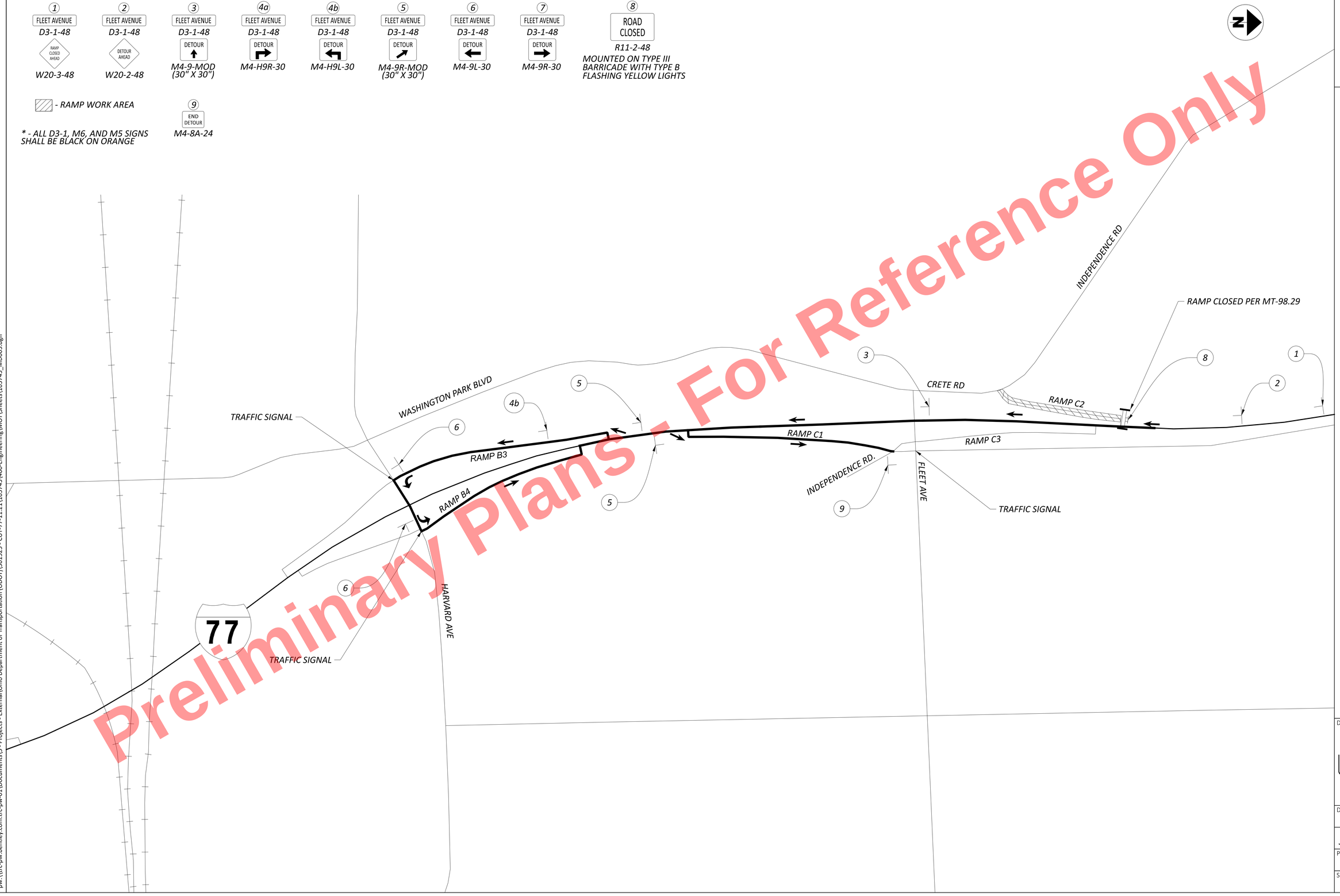
7 — FLEET AVENUE — D3-1-48 — DETOUR → — M4-9R-30

8 — ROAD CLOSED — R11-2-48
MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

▨ - RAMP WORK AREA

9 — END DETOUR — M4-8A-24

* - ALL D3-1, M6, AND M5 SIGNS SHALL BE BLACK ON ORANGE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## FLEET AVE SB EXIT (RAMP C2)

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 11/20/25
PROJECT ID 105743
SHEET P.55 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 9:03:26 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MD0003.dgn

1 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / RAMP CLOSED AHEAD / W20-3-48

2 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR AHEAD / W20-2-48

3 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR ↑ / M4-9-MOD (30" X 30")

4a — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR ↱ / M4-H9R-30

4b — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR ↰ / M4-H9L-30

5 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR ↗ / M4-9R-MOD (30" X 30")

6 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR ← / M4-9L-30

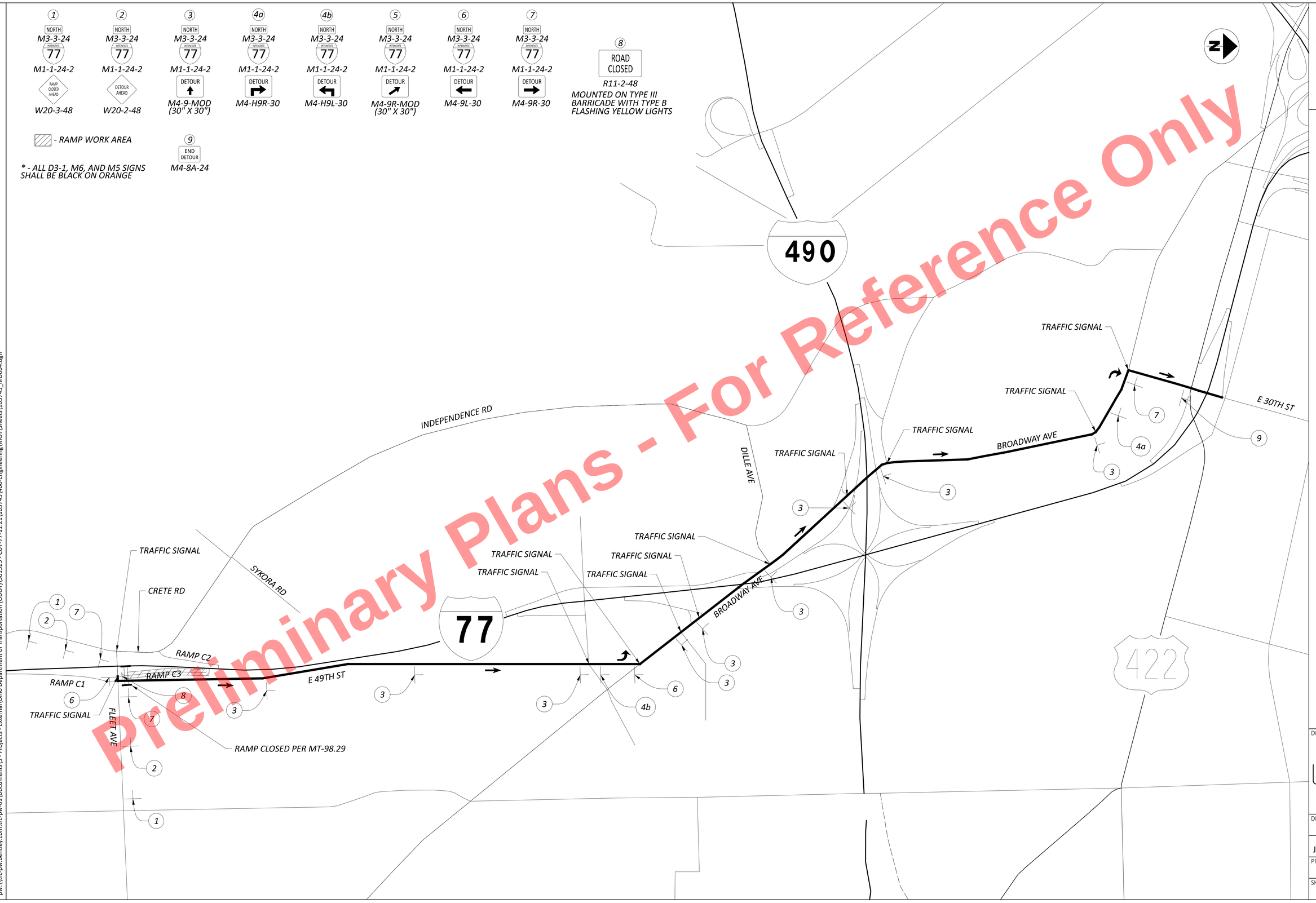
7 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / DETOUR → / M4-9R-30

8 — ROAD CLOSED / R11-2-48
MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

▨ - RAMP WORK AREA

9 — END DETOUR / M4-8A-24

* - ALL D3-1, M6, AND M5 SIGNS SHALL BE BLACK ON ORANGE




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## FLEET AVE NB ENTRANCE (RAMP C3)

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 9:15:01 PM RETTIG, JACOB
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| | |
|---|---|
| DESIGN AGENCY | Lanham ENGINEERING LLC |
| DESIGNER | ANC |
| REVIEWER | JAR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.56 |
| TOTAL | P.1135 |

1 — PERSHING AVE. D3-1-48 / DETOUR M4-8-24 / M6-3-21

2 — PERSHING AVE. D3-1-48 / DETOUR M4-H9R-30

3 — PERSHING AVE. D3-1-48 / DETOUR M4-9-30

4 — PERSHING AVE. D3-1-48 / DETOUR M4-8-24 / M5-2-21

5 — END DETOUR M4-8A-24

- RAMP WORK AREA

* - ALL D3-1, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

- DETOUR ROUTE

HORIZONTAL SCALE IN FEET
0 125 250 500

PERSHING AVE

TRAFFIC SIGNAL

FRONTAGE RD

77

RAMP D2

ADD BLACK ON ORANGE "CLOSED USE BROADWAY EXIT 161A" TEMPORARY OVERLAY ON EX. CANTILEVER PERSHING AVE OVERHEAD SIGN

ADD BLACK ON ORANGE "CLOSED USE BROADWAY EXIT 161A" TEMPORARY OVERLAY ON EX. PERSHING AVE. TRUSS MOUNTED OVERHEAD SIGN JUST SOUTH OF FLEET AVENUE (NOT SHOWN ON THIS SHEET)

RAMP D1 (CLOSED)

RAMP CLOSED PER MT-98.29

RAMP E1

BROADWAY AVE

FINN AVE

E. 49TH ST

TRAFFIC SIGNAL

TRAFFIC SIGNAL

TRAFFIC SIGNAL

Preliminary Plans - For Reference Only

DETOUR PLAN
PERSHING AVE NB EXIT (RAMP D1)

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.57 TOTAL P.1135

CUY-77-11.43 - PART 1

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Preliminary Plans - For Reference Only

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CUY-77-11.43 - PART 1

ROCKEFELLER AVE
W 7TH ST
W 3RD ST
INDEPENDENCE RD
CUYAHOGA RIVER
QUIGLEY ROAD
77
490
PERSHING AVE
FINN AVE
BROADWAY AVE
MEAD AVE
TRAFFIC SIGNAL
TRAFFIC SIGNAL
RAMP CLOSED PER MT-98.30
RAMP D2 (CLOSED)
RAMP D1
E 49TH ST

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4A | 4B | 5 | 6 | 7 | 8 | 9 |
| SOUTH | SOUTH | SOUTH | SOUTH | SOUTH | SOUTH | SOUTH | SOUTH | SOUTH | ROAD CLOSED |
| M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | M3-3-30 | R11-2-48 |
| M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | M1-1-24-2 | |
| RAMP CLOSED AHEAD | DETOUR AHEAD | DETOUR | DETOUR | DETOUR | DETOUR | DETOUR | DETOUR | DETOUR | 10 |
| W20-3-48 | W20-2-48 | M4-8-24 | M4-H9L-30 | M4-H9R-30 | M4-9L-30 | M4-9R-30 | M5-2-21 | M5-2-21 | END DETOUR |
| | | M6-3-21 | | | | | | | M4-8A-24 |

HORIZONTAL SCALE IN FEET
0 125 250 500

# DETOUR PLAN
## (NEW ALTERNATIVE) PERSHING AVE ENTRANCE (RAMP D2)

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.58 TOTAL P.1135

1 — BROADWAY AVE. D3-1-48 / ROAD CLOSED AHEAD / W20-3-48

2 — BROADWAY AVE. D3-1-48 / DETOUR AHEAD / W20-2-48

3 — BROADWAY AVE. D3-1-48 / DETOUR / M4-9-MOD (30" X 30")

4 — BROADWAY AVE. D3-1-48 / DETOUR / M4-9R-MOD (30" X 30")

5 — BROADWAY AVE. D3-1-48 / DETOUR / M4-H9R-30

7 — BROADWAY AVE. D3-1-48 / DETOUR / M4-9R-30

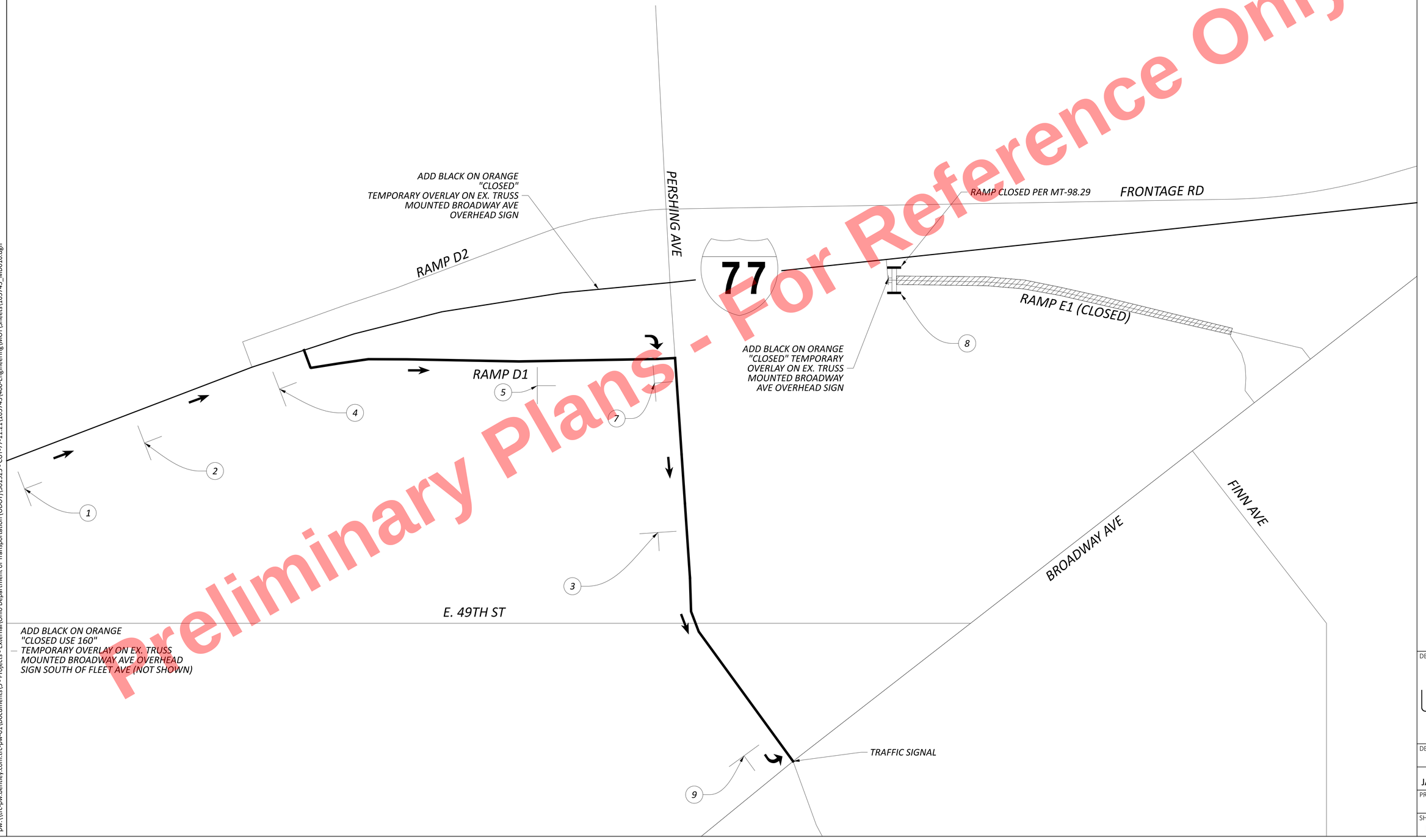
8 — ROAD CLOSED / R11-2-48 MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

9 — END DETOUR / M4-8A-12

- RAMP WORK AREA
- DETOUR ROUTE

* - ALL D3-1, M6, AND M5 SIGNS SHALL BE BLACK ON ORANGE

HORIZONTAL SCALE IN FEET: 0, 50, 100, 200




Preliminary Plans - Not For Reference Only

# DETOUR PLAN
# BROADWAY AVE (RAMP E1)

CUY-77-11.43 - PART 1

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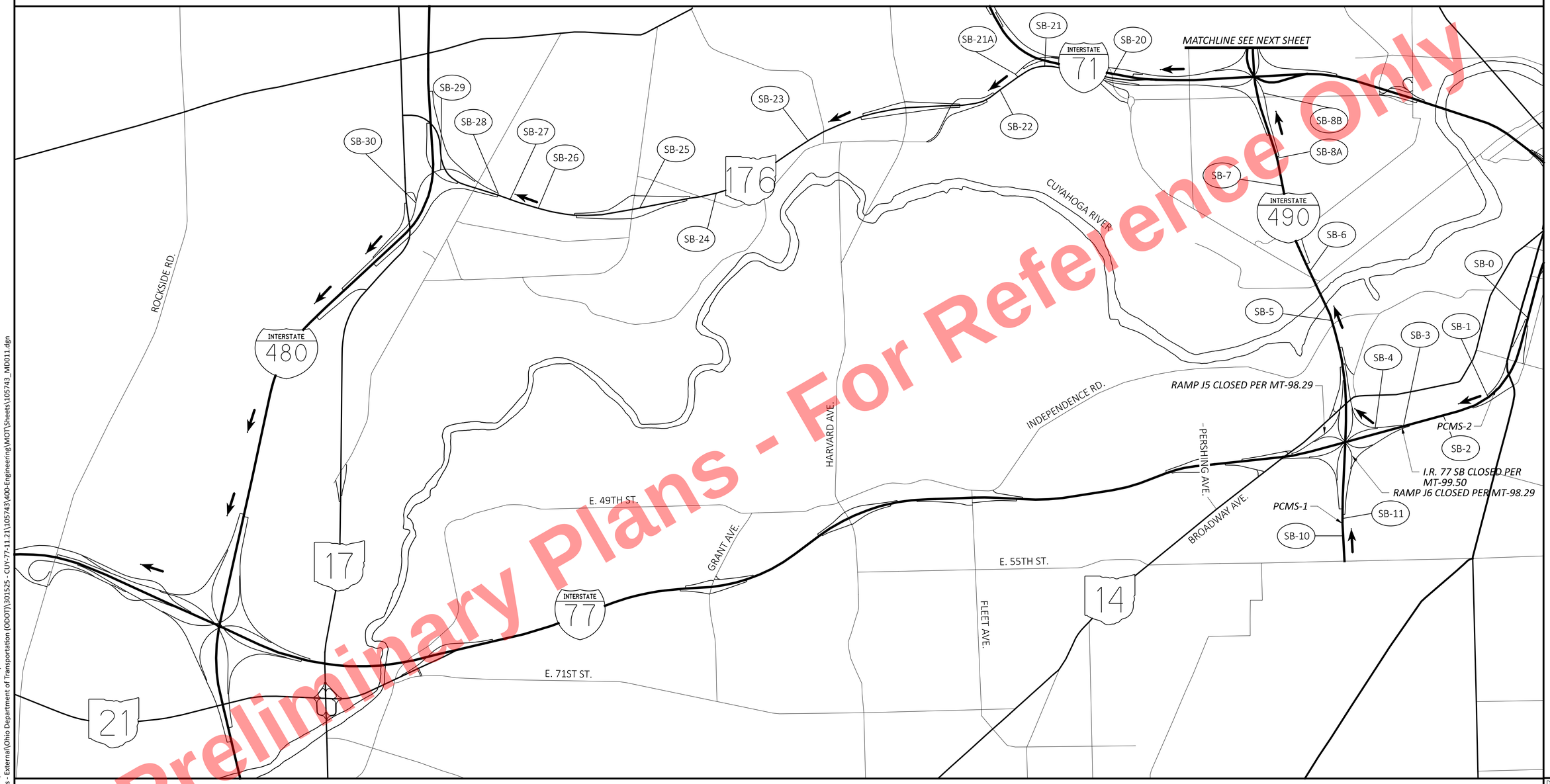
DESIGN AGENCY: Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | ANC |
| REVIEWER | JAR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.59 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE SYSTEM RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. CLOSE SERVICE RAMPS TO 77 SB PER MT-98.30. MAINTAIN LOCAL ACCESS ON PORTIONS OF 77SB THAT WILL NOT HAVE WORK TAKING PLACE PER THE ENGINEER

| PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES | | |
|---|---|---|
| | ALTERNATE ROUTE | |
| | FLASH 1 | FLASH 2 |
| PCMS-1 | I.R. 77 SB CLOSED | USE I.R. 490 WEST |
| PCMS-2 | I.R. 77 SB CLOSED | USE I.R. 490 WEST |

# DETOUR PLAN
## I.R. 77 SOUTHBOUND FULL CLOSURE

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.60 TOTAL P.1135

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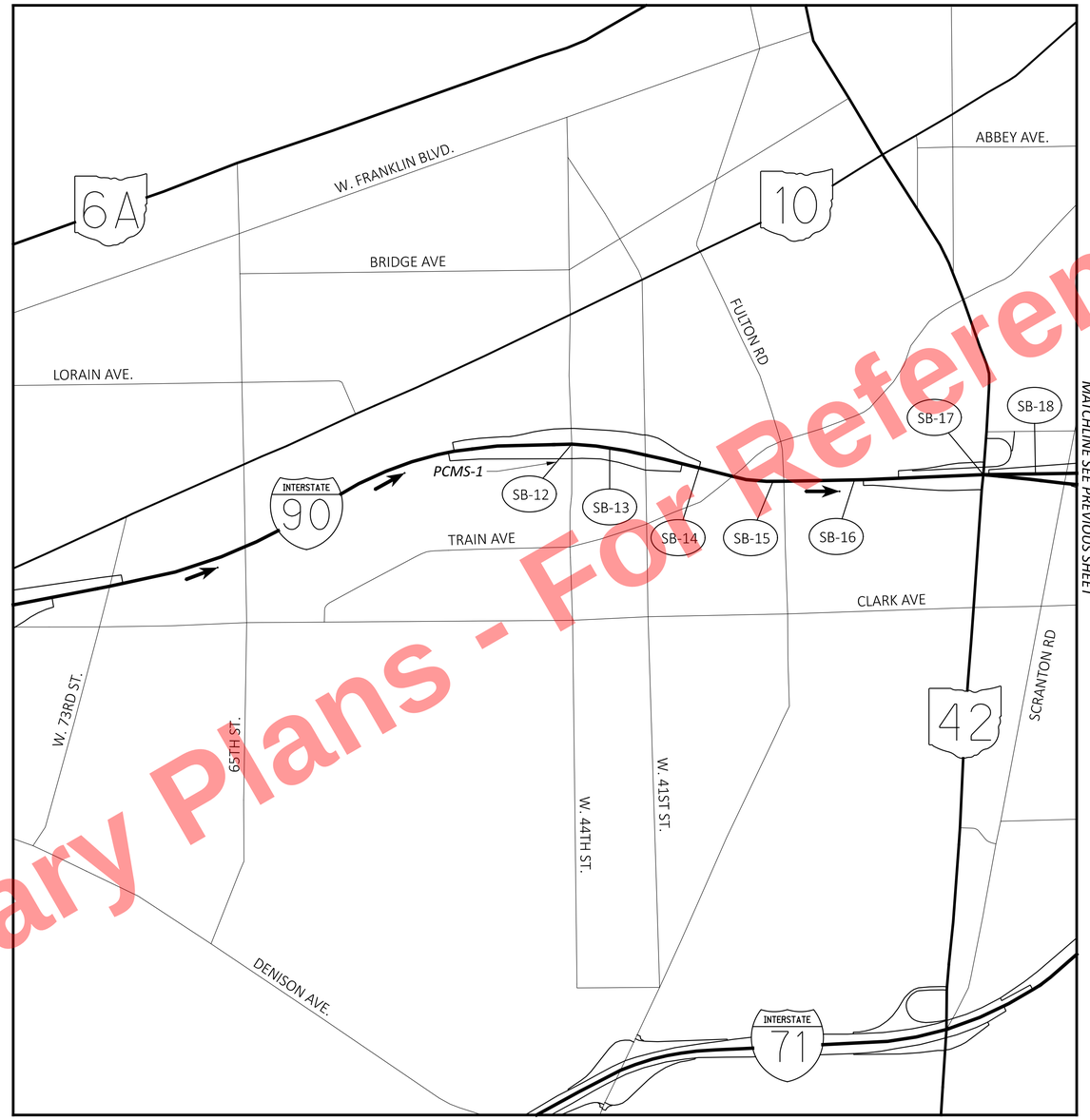


Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.

| PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES | | |
|---|---|---|
| | ALTERNATE ROUTE | |
| | FLASH 1 | FLASH 2 |
| PCMS-1 | I.R. 77 SB CLOSED | USE I.R. 71/SR176 SOUTH |

# DETOUR PLAN
## I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY: HNTB

DESIGNER: SJT

REVIEWER: KKP 11/20/25

PROJECT ID: 105743

SHEET: P.61 TOTAL: P.1135

CUY-77-11.43 - PART 1

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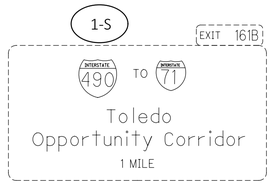
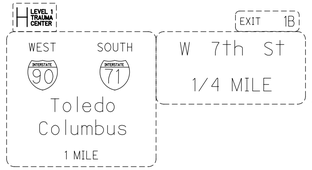






SB-0



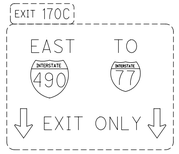

SB-5

1-S

ATTACH 1-S TO VERTICAL UPRIGHT OF EX. TRUSS




SB-10







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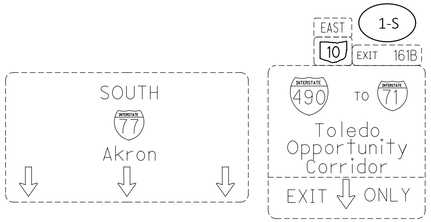


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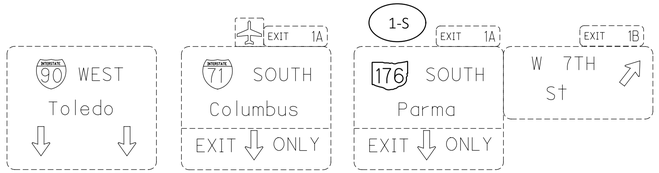


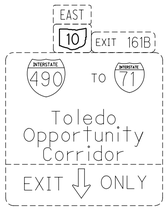

SB-6




SB-11




SB-16

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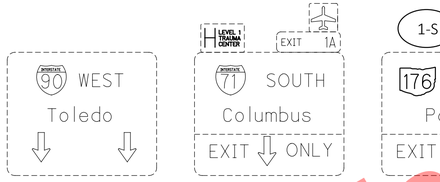


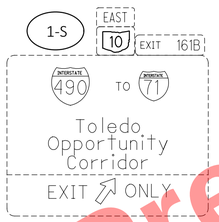

SB-7




SB-12




SB-17

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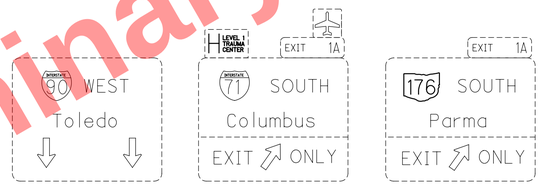


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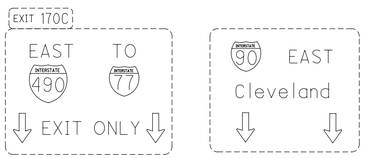


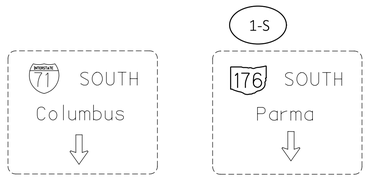

SB-13



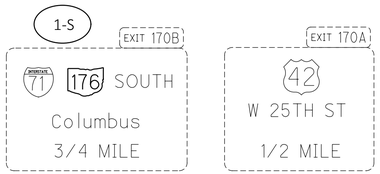




SB-4




SB-8B




SB-14

LEGEND

1-S = ALT M4-1A-36 / SOUTH M3-3-36 / INTERSTATE 77 M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
SOUTHBOUND FULL CLOSURE
I.R. 77 SOUTH

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.62 TOTAL P.1135

CUY-77-11.43 - PART 1

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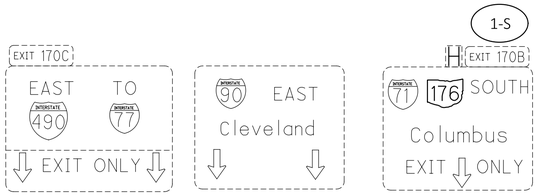
Preliminary Plans - For Reference Only

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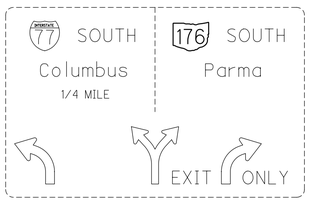
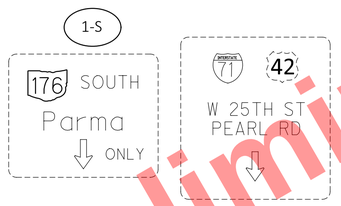



SB-19A




SB-19B

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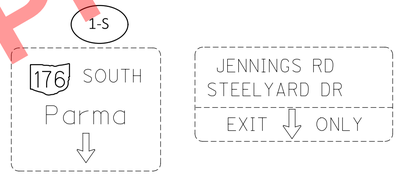


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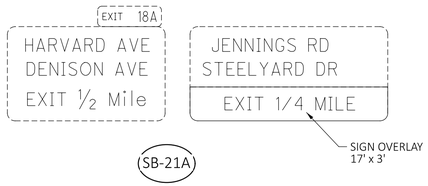


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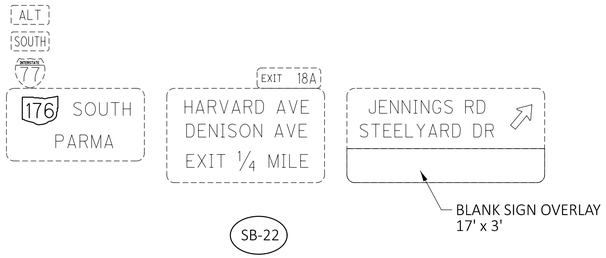


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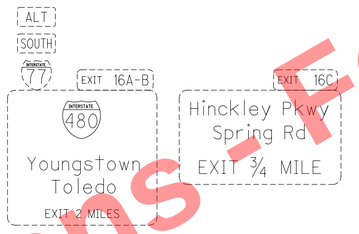


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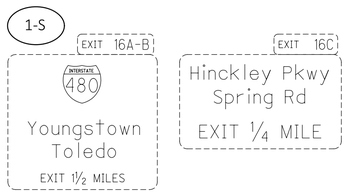


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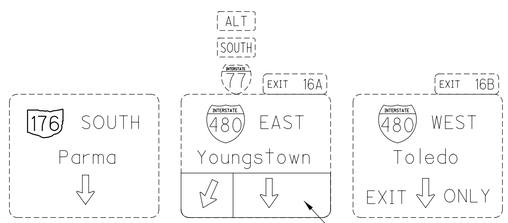


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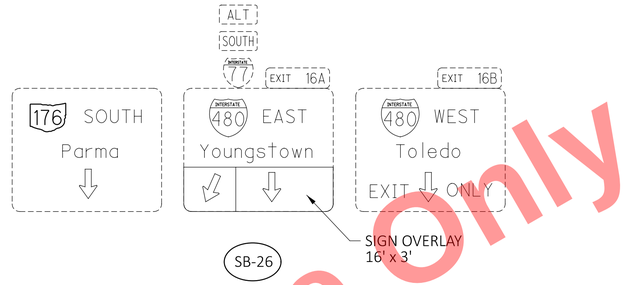


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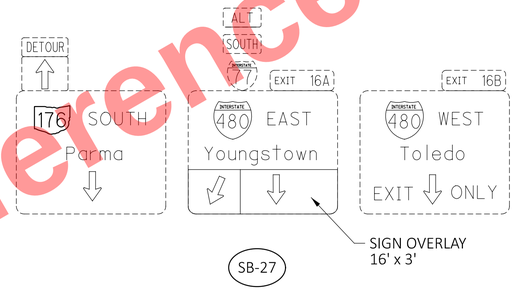


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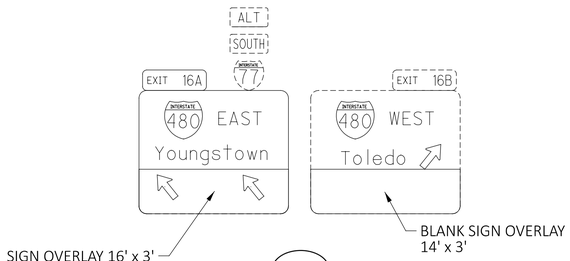


SB-28




SB-29




SB-30

LEGEND

| | | |
|---|---|---|
| 1-S | ALT | M4-1A-36 |
| = | SOUTH | M3-3-36 |
| | INTERSTATE 77 | M1-1-36-2 |

DETOUR SIGNAGE
I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.63 TOTAL P.1135

CUY-77-11.43 - PART 1

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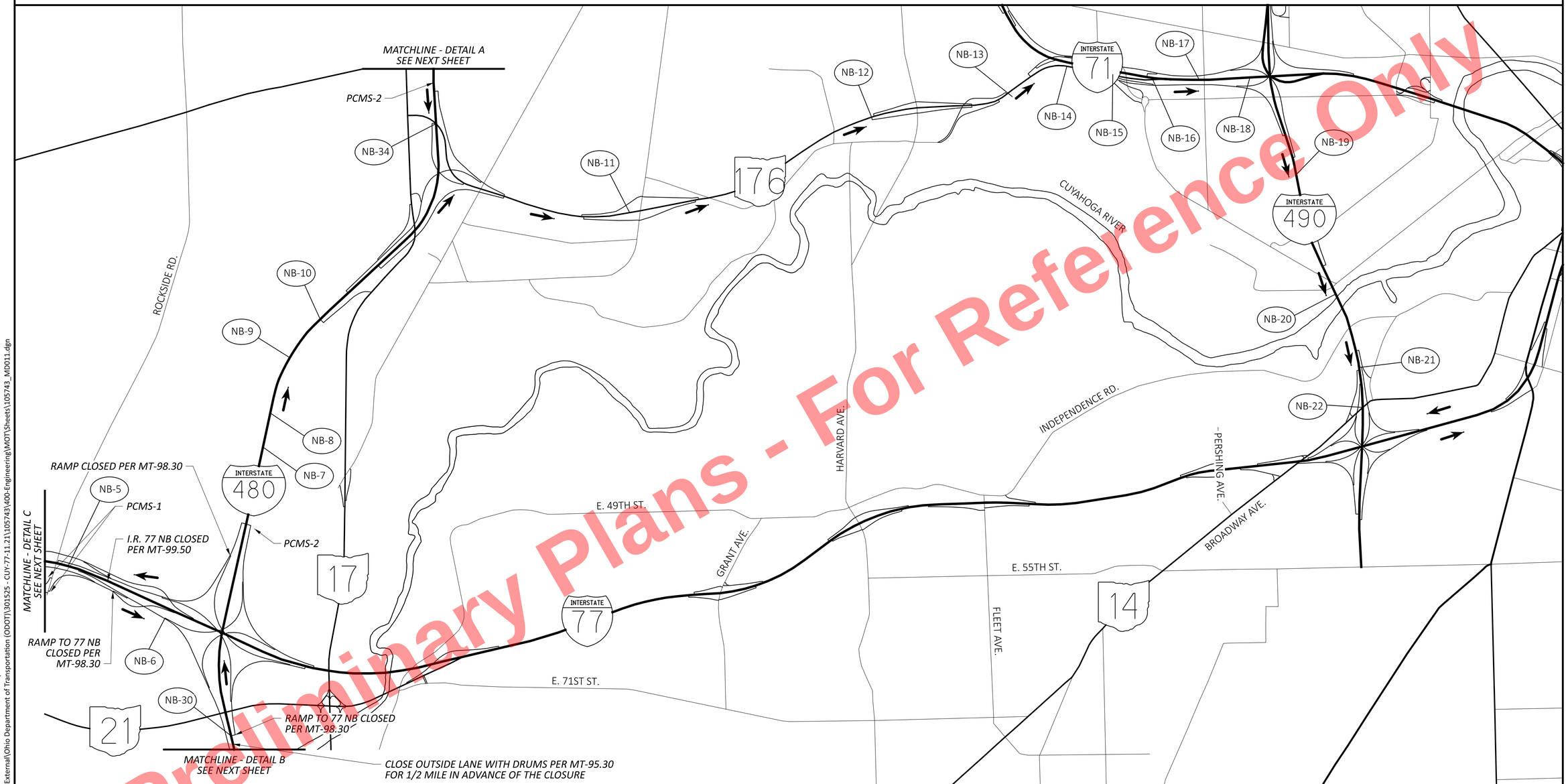


Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. CLOSE SERVICE RAMPS TO 77 SB PER MT-98.30 MAINTAIN LOCAL ACCESS ON PORTIONS OF 77SB THAT WILL NOT HAVE WORK TAKING PLACE PER THE ENGINEER

| PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES | | |
|---|---|---|
| | ALTERNATE ROUTE | |
| | FLASH 1 | FLASH 2 |
| PCMS-1 | I.R. 77 NB CLOSED | USE I.R. 480 WEST |
| PCMS-2 | I.R. 77 NB CLOSED | USE S.R. 176 NORTH |

# DETOUR PLAN
## I.R. 77 NORTHBOUND FULL CLOSURE

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.64 TOTAL P.1135

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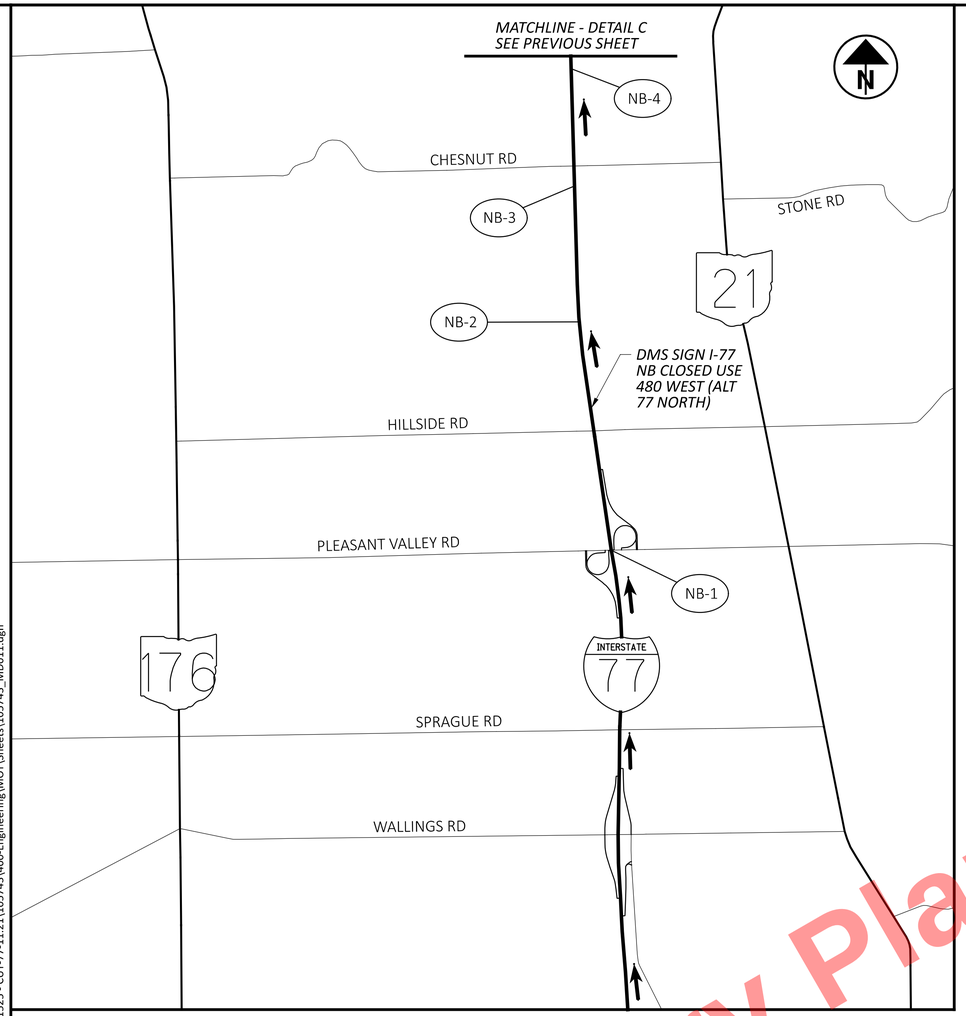


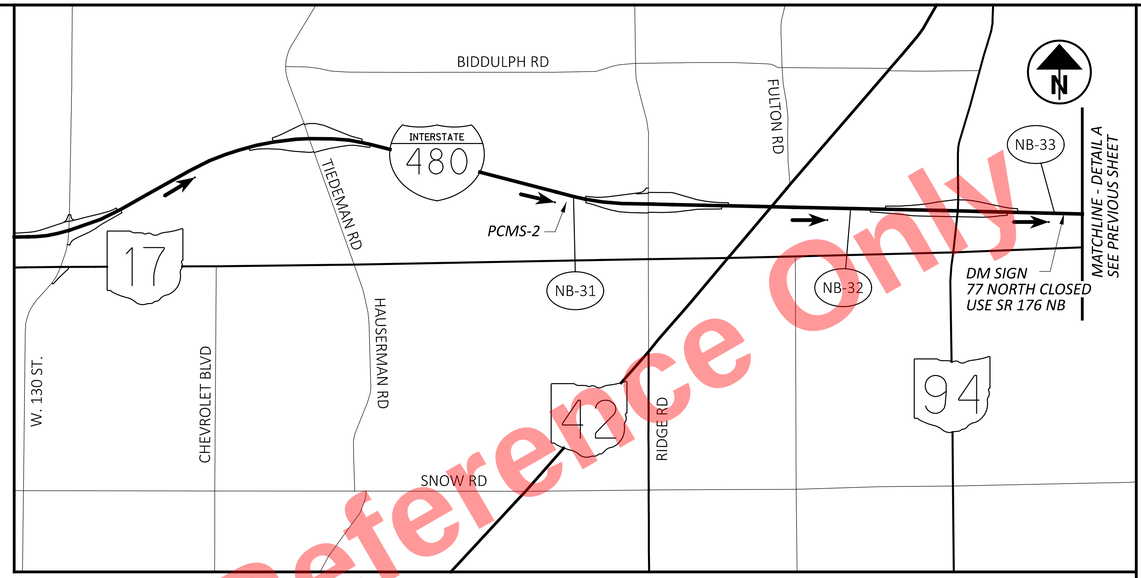


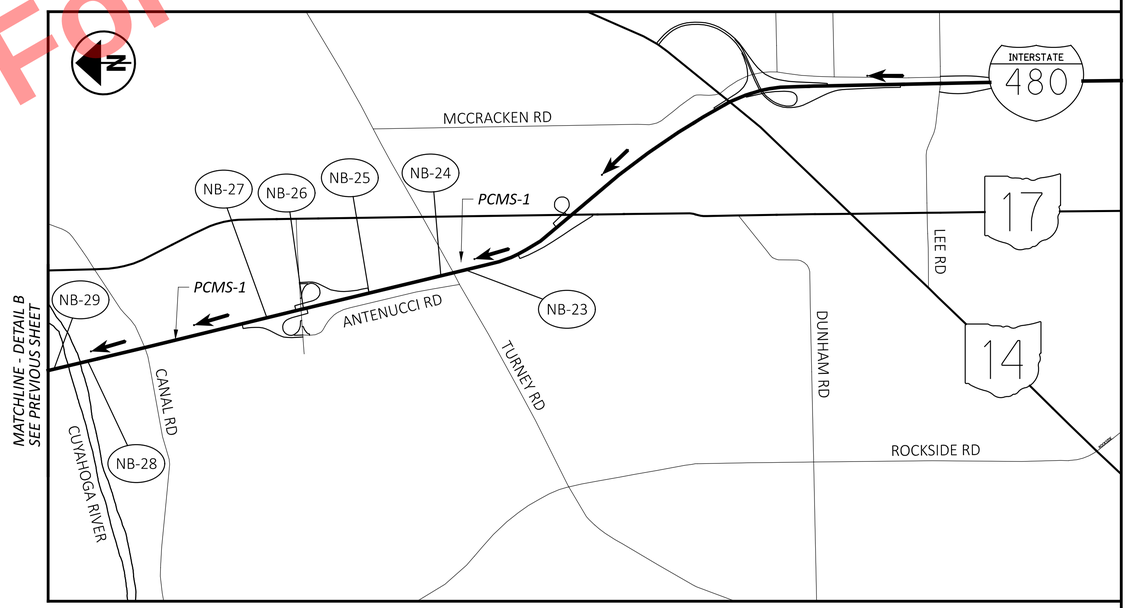


Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.

| PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES | | |
|---|---|---|
| | ALTERNATE ROUTE | |
| | FLASH 1 | FLASH 2 |
| PCMS-1 | I.R. 77 NB CLOSED | USE I.R. 480 WEST |
| PCMS-2 | I.R. 77 NB CLOSED | USE S.R. 176 NORTH |

# DETOUR PLAN
## I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.65 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: Sheet6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:29 PM USER: kperkins
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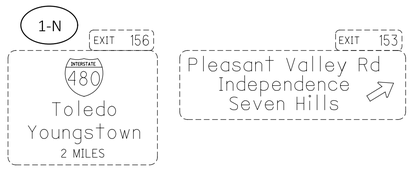
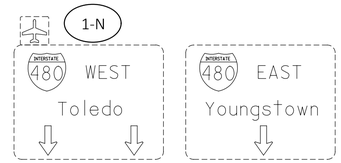



NB-1

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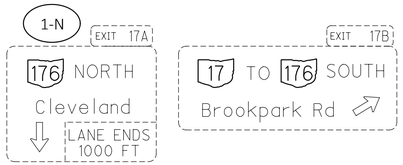


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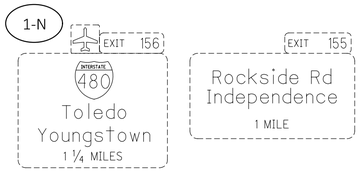
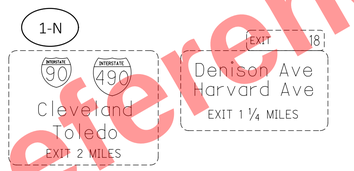



NB-2




NB-7

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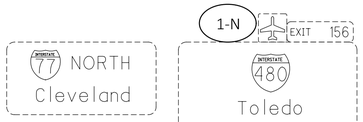






NB-3









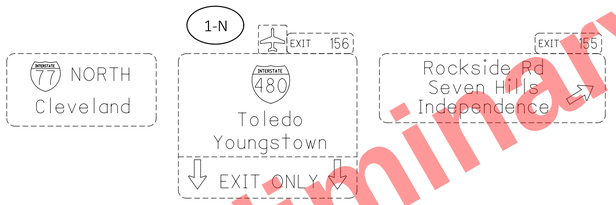




NB-12




NB-8

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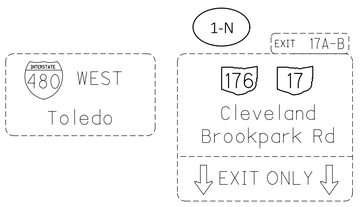



NB-9







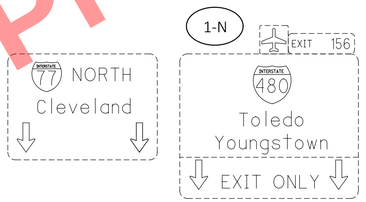






SIGN OVERLAY
17' x 3'

NB-13




NB-5

LEGEND

ALT — M4-1A-36

1-N = NORTH — M3-3-36

INTERSTATE 77 — M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.66 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: Sheet7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:30 PM USER: kperkins
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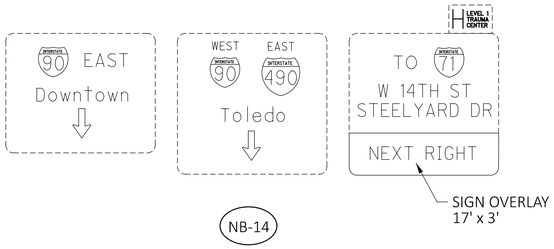


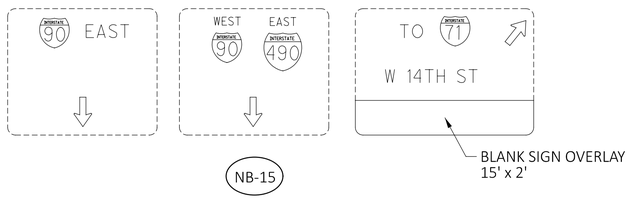


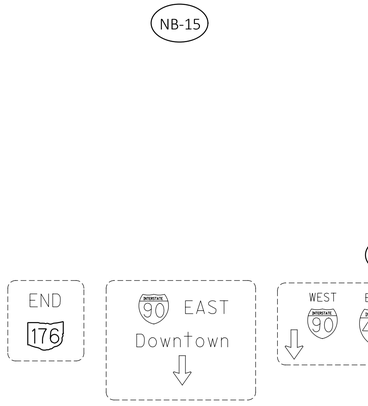


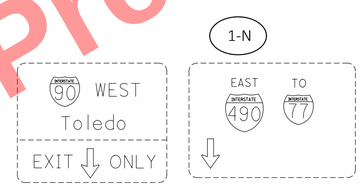


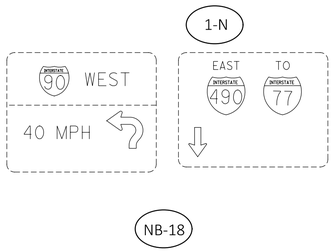


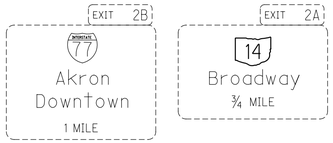


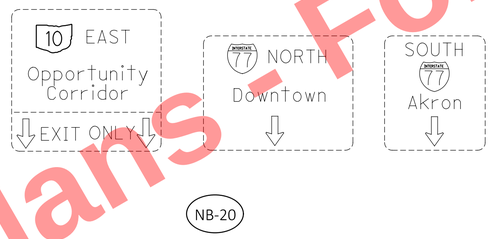


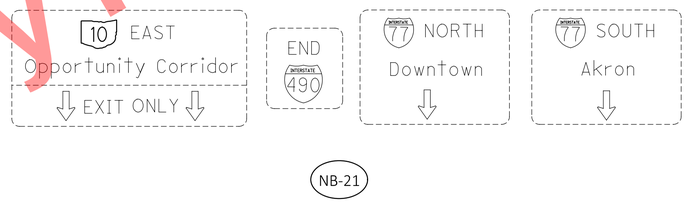








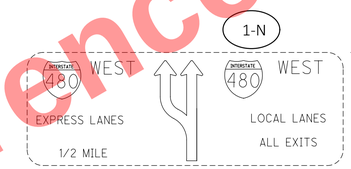


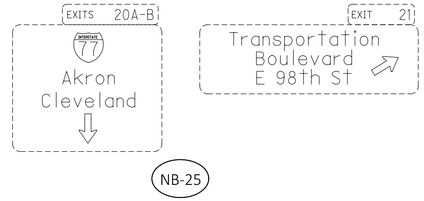


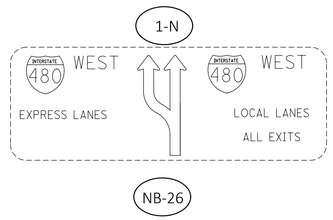


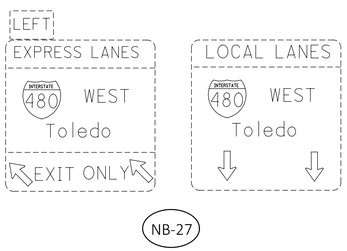


LEGEND

1-N = ALT M4-1A-36 / NORTH M3-1-36 / INTERSTATE 77 M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.67 TOTAL P.1135

CUY-77-11.43 - PART 1

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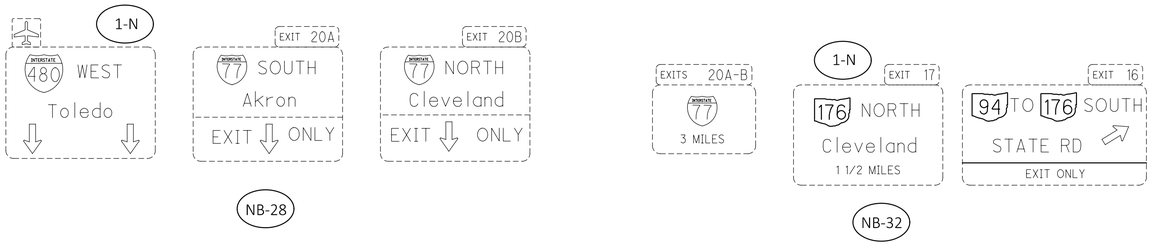
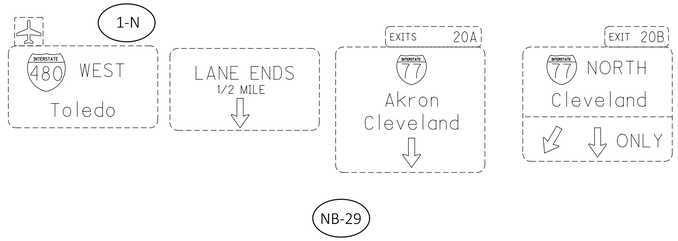



NB-28




NB-32

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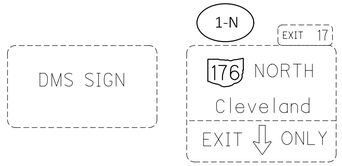


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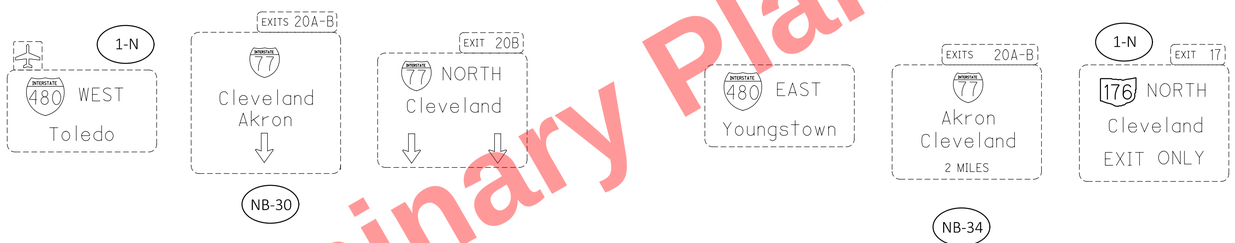
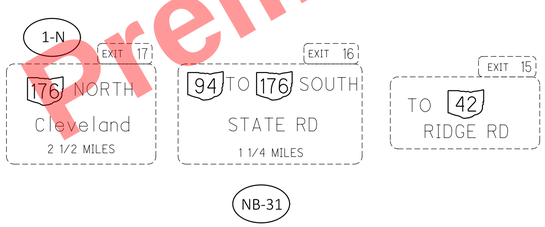



NB-30




NB-34




NB-31

LEGEND

| | | |
|---|---|---|
| | ALT | M4-1A-36 |
| 1-N = | NORTH | M3-1-36 |
| | INTERSTATE 77 | M1-1-36-2 |

DETOUR SIGNAGE
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 11/20/25
PROJECT ID 105743
SHEET P.68 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: Sheet9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:31 PM USER: kperkins
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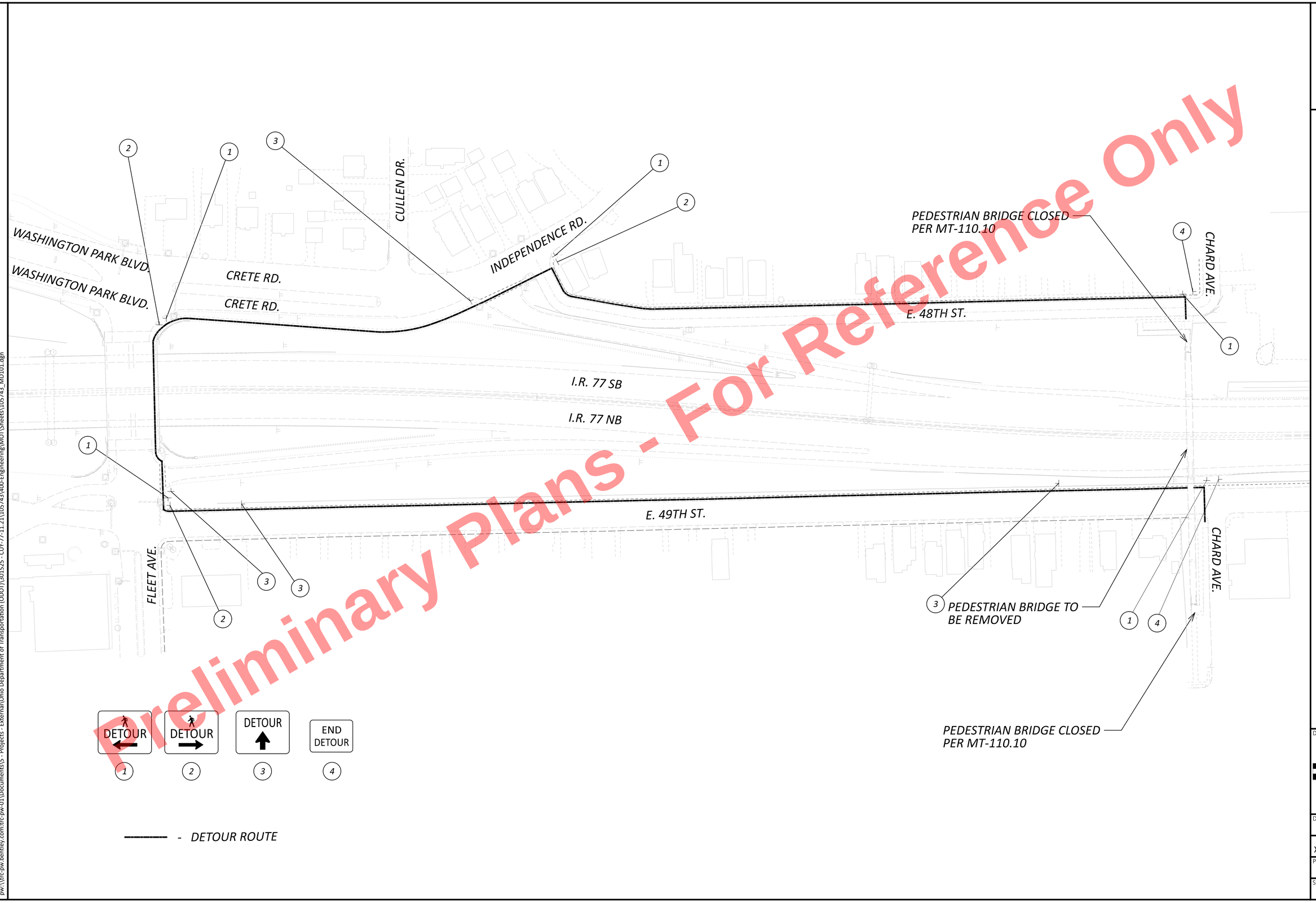
Preliminary Plans - For Reference Only

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 30 60 120

# DETOUR PLAN
## CHARD AVE. - PEDESTRIAN ROUTE

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | AFG |
| REVIEWER | XXX 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.69 |
| TOTAL | P.1135 |

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# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 38+00 TO STA. 50+50

CUY-77-11.43 - PART 1

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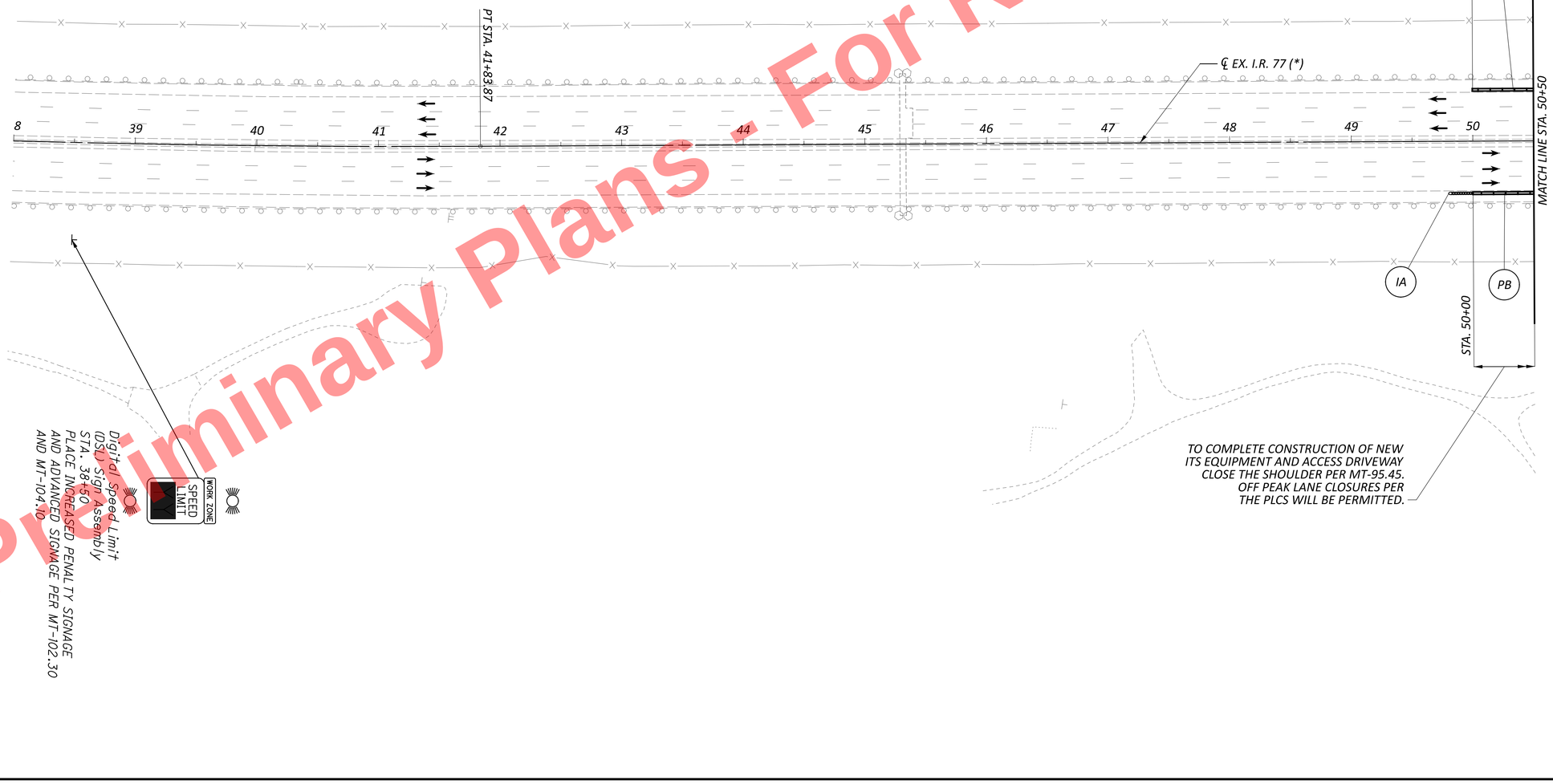
HORIZONTAL SCALE IN FEET
0 25 50 100

*LEGEND*

- *WORK ZONE IMPACT ATTENUATOR (IA)*
- *(ELW) - WORK ZONE EDGE LINE (WHITE), CLASS I, 6"*
- *(ELY) - WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"*
- *(LA) - WORK ZONE LANE ARROW, CLASS I*
- *(CHW) - WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"*
- *(DL) - WORK ZONE DOTTED LINE, CLASS I*
- *(CL) - WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I*
- *(LL) - WORK ZONE LANE LINE, CLASS I, 6"*
- *WORK AREA*
- *DRUMS (SPACING AS NOTED)*
- *PORTABLE BARRIER (PCB) (32" HEIGHT, UNLESS NOTED OTHERWISE)*
- *TEMPORARY PAVEMENT BUILT IN THIS PHASE*
- *TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE*

*(*) - FOR EX. 77 CENTERLINE ALIGNMENT INFORMATION SEE 105743 BK011.DGN IN THE PROJECT BID PACKAGE.*

*TO COMPLETE CONSTRUCTION OF NEW ELECTRIC AND TELECOM CONDUITS CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS AND MT-95.30 WILL BE PERMITTED. ALSO FOR A PERIOD NOT TO EXCEED 5 CALENDAR DAYS THE OUTSIDE LANE OF 77 SB, SOUTH OF GRANT AVENUE, MAY BE CLOSED PER MT-95.40 (NOT SHOWN). RAMP A2 SHALL BE CLOSED CONCURRENTLY PER MT-101.60 AND TRAFFIC DETOURED TO HARVARD AVENUE WITH PCMS.*




Preliminary Plans - For Reference Only

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.70 TOTAL P.1135

TO COMPLETE CONSTRUCTION OF NEW ELECTRIC AND TELECOM CONDUITS CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS AND MT-95.30 WILL BE PERMITTED. ALSO FOR A PERIOD NOT TO EXCEED 5 CALENDAR DAYS THE OUTSIDE LANE OF 77 SB, SOUTH OF GRANT AVENUE, MAY BE CLOSED PER MT-95.40 (NOT SHOWN). RAMP A2 SHALL BE CLOSED CONCURRENTLY PER MT-101.60 AND TRAFFIC DETOURED TO HARVARD AVENUE WITH PCMS.

PB

℄ EX. I.R. 77

MATCH LINE STA. 50+50

51 52 53 54 55 56 57 58 59 60 61 62 63

MATCH LINE STA. 63+00

PC STA. 50+76.86

PB

STA. 55+00

TO COMPLETE CONSTRUCTION OF NEW DMS SIGN AND ACCESS DRIVEWAY CLOSE THE SHOULDER PER MT-95.45. OFF PEAK LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

CSX

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 50+50 TO STA. 63+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.71 TOTAL P.1135

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Preliminary Plans - For Reference Only

* - CLOSE RAMP A2 PER MT-101.60 AND DETOUR TO HARVARD AVE USING PCMS. CLOSURE SHALL BE CONCURRENT WITH LANE CLOSURE ON I-77 SB AND BE PERMITTED FOR 5 CALENDAR DAYS. CLOSURE SHALL NOT BE CONCURRENT WITH CLOSURES TO RAMP B2.

TO COMPLETE CONSTRUCTION OF NEW ELECTRIC AND TELECOM CONDUITS CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS AND MT-95.30 WILL BE PERMITTED. ALSO FOR A PERIOD NOT TO EXCEED 5 CALENDAR DAYS THE OUTSIDE LANE OF 77 SB SOUTH OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 (NOT SHOWN). RAMP A2 SHALL BE CLOSED CONCURRENTLY PER MT-101.60 AND TRAFFIC DETOURED TO HARVARD AVENUE WITH PCMS.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45. OFF PEAK LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

END SHIFT TAPER STA. 75+50

PB

℄ EX. I.R. 77

RAMP A2 (OPEN*)

MEET EXISTING MARKINGS/ BEGIN SHIFT TAPER STA. 74+00

STA. 74+50

PC STA. 75+34.93

MATCH LINE STA. 63+00

MATCH LINE STA. 75+50

63 64 65 66 67 68 69 70 71 72 73 74 75

PT STA. 67+31.74

RAMP A1 (OPEN)

CLOSE LEFT TURN LANE OF RAMP A1 WITH DRUMS PER MT-98.28

R3-H69-30

+98 +97 +83

LA

EXISTING LANE USAGE SIGN TO BE COVERED

STA. 69+50

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.72 |
| TOTAL | P.1135 |

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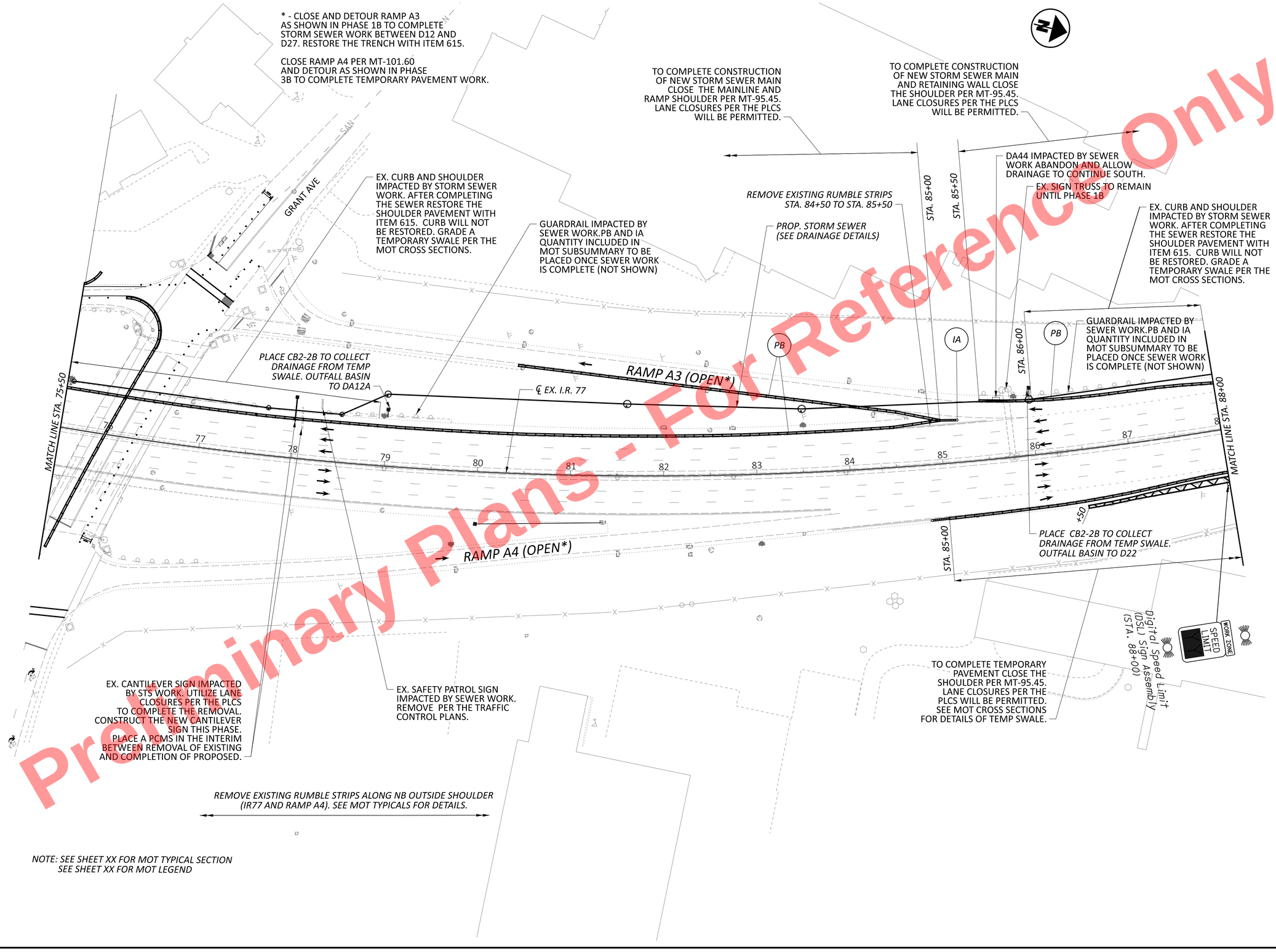



Preliminary Plans - Not For Reference Only

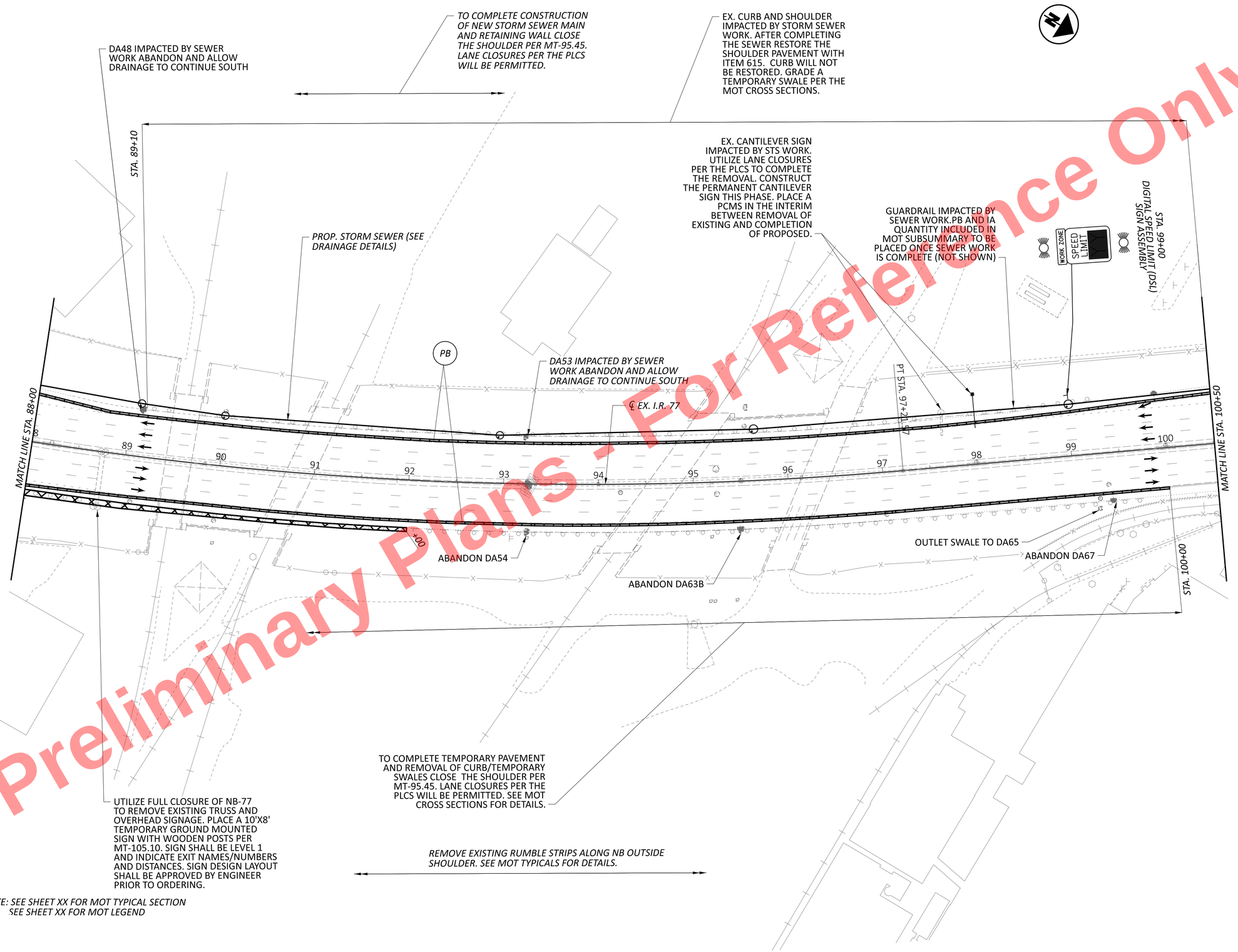
HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.73 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 88+00 TO STA. 100+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.74 TOTAL P.1135

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn

Preliminary Plans - For Reference Only

* - CLOSE AND DETOUR RAMP B2 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D37 TO D41 AND D43 TO D50. RESTORE THE TRENCH WITH ITEM 615.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

REMOVE EXISTING RUMBLE STRIPS STA. 105+00 TO STA. 107+50

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA81 OR D41.

STA. 108+00

STA. 106+50

STA. 110+50

STA. 109+00

PB

IA

RAMP B2 (OPEN*)

RAMP B1 (OPEN)

ABANDON DA91

ABANDON DA93

℄ EX. I.R. 77

GUARDRAIL IMPACTED BY SWALE WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SWALE WORK IS COMPLETE (NOT SHOWN)

REMOVE AND RELOCATE. USE TEMPORARY SUPPORTS PER MT-105.10

HARVARD AVE.

MATCH LINE STA. 100+50

MATCH LINE STA. 113+00

PC STA. 103+22.36

101 102 103 104 105 106 107 108 109 110 111 112

STOP RUMBLE STRIP REMOVAL ALONG RAMP B1 AT STA. 107+00

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP B1). SEE MOT TYPICALS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 100+50 TO STA. 113+00

CUY-77-11.43 - PART 1

DESIGN AGENCY: HNTB

DESIGNER: CC
REVIEWER: MTR 11/20/25
PROJECT ID: 105743
SHEET: P.75
TOTAL: P.1135

MODEL: CLP_i077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45.LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

* - CLOSE AND DETOUR RAMP B3 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D59 AND DA113. RESTORE THE TRENCH WITH ITEM 615.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS. CLOSE SHOULDER PER MT-95.45

*EX.CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.*

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

*STA. 119+50*

*STA. 121+00*

*REMOVE EXISTING RUMBLE STRIPS STA. 120+00 TO END OF EX. RUMBLE STRIPS AT STA. 121+60 +/-*

UTILIZE FULL CLOSURE OF NB-77 TO REMOVE EXISTING TRUSS AND OVERHEAD SIGNAGE. CONSTRUCT PERMANENT CANTILEVER SIGNS AT 114+00 AND 127+00 THIS PHASE. PLACE A PCMS IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF THE PROPOSED SIGN

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SWALE WORK IS COMPLETE (NOT SHOWN)

PB

IA

ABANDON DA113

*OUTLET SWALE TO EXISTING CASTCH BASIN*

*STA. 114+50*

*PROP. STORM SEWER (SEE DRAINAGE DETAILS)*

*RAMP B3 (OPEN*)*

*MATCH LINE STA. 113+00*

*MATCH LINE STA. 125+50*

114 115 116 117 118 119 120 121 122 123 124 125

GUARDRAIL IMPACTED BY SWALE WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SWALE WORK IS COMPLETE (NOT SHOWN)

*℄ EX. I.R. 77*

*RAMP B4 (OPEN)*

PB

*PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA100*

REMOVE AND RELOCATE. USE TEMPORARY SUPPORTS PER MT-105.10

*EX. CANTILEVER TO REMAIN (DO NOT DISTURB THIS PHASE)*

REMOVE PER TRAFFIC CONTROL PLANS

*STA. 119+00*

*REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP B4). SEE MOT TYPICALS FOR DETAILS.*

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
## STA. 113+00 TO STA. 125+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.76 TOTAL P.1135

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TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE THE SIDE SLOPES TO DRAIN TO THE EXISTING SWALE PER THE MOT CROSS SECTIONS.

GUARDRAIL IMPACTED BY SEWER WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

*PROP. STORM SEWER (SEE DRAINAGE DETAILS)*

*EX. CANTILEVER SIGN IMPACTED BY STS WORK. UTILIZE LANE CLOSURES PER THE PLCS TO COMPLETE THE REMOVAL. PLACE A PCMS IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF THE PROP. SIGN*

*STA. 134+50*

GUARDRAIL IMPACTED BY SEWER WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

*MATCH LINE STA. 125+50*

126 127 128 129 130 131 132 133 134 135 136 137

*MATCH LINE STA. 138+00*

*℄ EX. I.R. 77*

*PT STA. 131+31.78*

*RAMP C1 (OPEN)*

IA

PB

*STA. 136+50*

*PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA149*

*STOP RUMBLE STRIP REMOVAL ALONG RAMP B1 AT STA. 130+50*

REMOVE CURB AND GRADE TEMPORARY SWALE. SEE MOT CROSS SECTIONS FOR DETAILS.

*STA. 135+00*

*Digital Speed Limit (DSL) Sign Assembly STA. 128+00*

SPEED LIMIT

WORK ZONE

*REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP C1). SEE MOT TYPICALS FOR DETAILS.*

*CITY OF CLEVELAND*

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
## STA. 125+50 TO STA. 138+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.77 TOTAL P.1135

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Preliminary Plans - For Reference Only

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn

CUY-77-11.43 - PART 1

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

CITY OF CLEVELAND

WASHINGTON PARK BLVD

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

PB

DMS TRUSS TO REMAIN UNTIL PHASE 1B (DO NOT DISTURB)

CRETE RD

INDEPENDENCE RD

STA. 150+00

IA

RAMP C2

MATCH LINE STA. 138+00

138 139 140 141 142 143 144 145 146 147 148 149 150

MATCH LINE STA. 150+50

℄ EX. I.R. 77

PT STA. 142+08.13

ABANDON DA161

STA. 144+50

RAMP C3 (OPEN)

PB

PT STA. 149+63.47

E 49TH ST

SPEED

INDEPENDENCE RD

FLEET AVE.

STA. 147+50

GUARDRAIL IMPACTED BY SEWER WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

REMOVE CURB AND GRADE TEMPORARY SWALE. SEE MOT CROSS SECTIONS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

*REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.*

CITY OF CLEVELAND

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.78 TOTAL P.1135

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:55 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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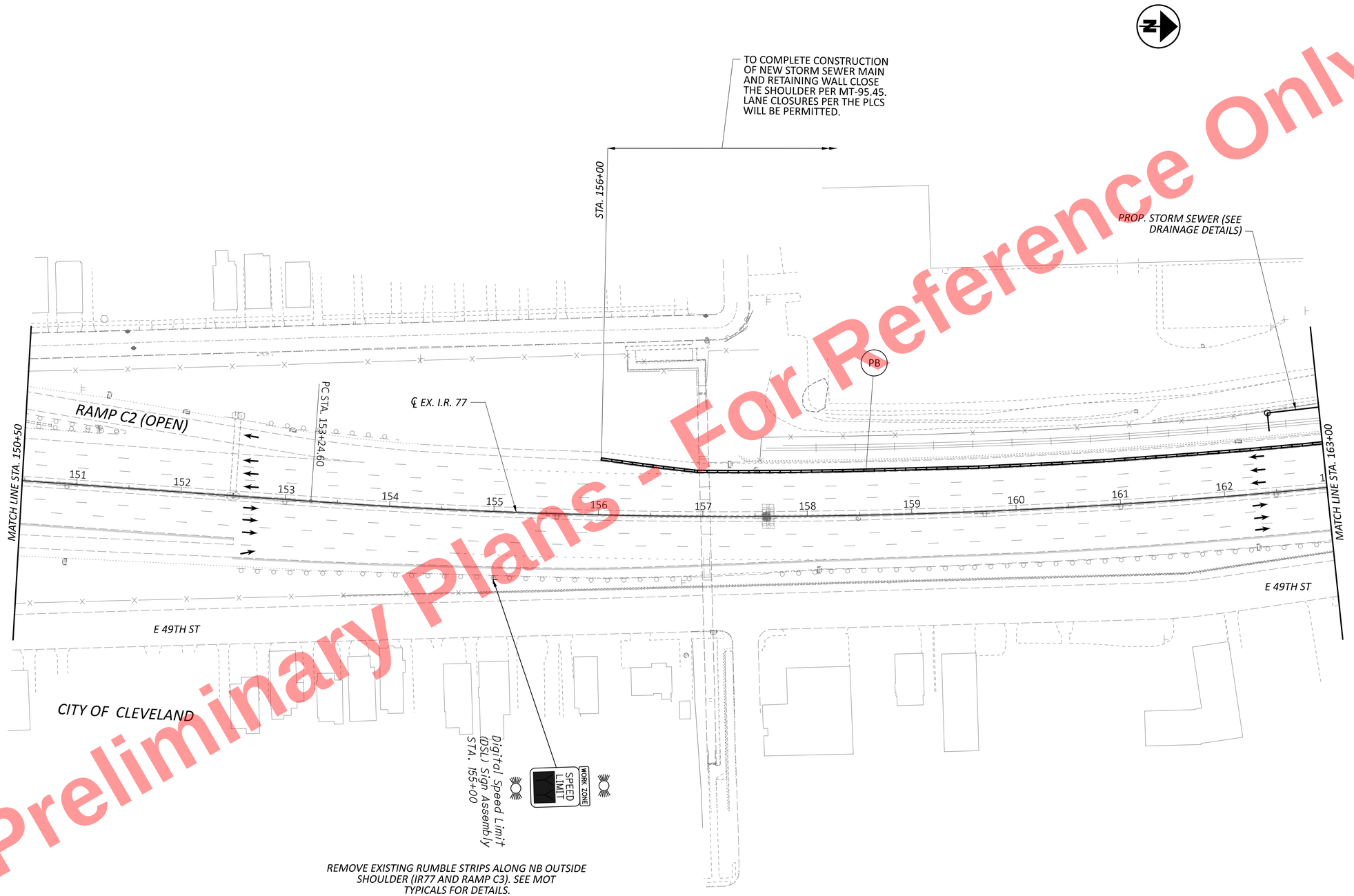


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.79 TOTAL P.1135

Preliminary Plans - For Reference Only

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

PB

PT STA. 165+80.67

PC STA. 169+28.06

MATCH LINE STA. 163+00

MATCH LINE STA. 175+50

63 164 165 166 167 168 169 170 171 172 173 174 175

E 49TH ST

℄ EX. I.R. 77

STA. 163+25

57.0 - BEGIN PB
(PLACE END BEHIND EXISTING CONCRETE BARRIER)

STA. 170+50

CITY OF CLEVELAND

Digital Speed Limit (DSL) Sign Assembly STA. 174+50

SPEED LIMIT

WORK ZONE

RELOCATE AND EXTEND PORTABLE BARRIER PROTECTION OF EXISTING MORGANA RUN BRIDGE PARAPET. USE LANE CLOSURES PER THE PLCS AND MT-95.30. ANCHOR THE PORTIONS OF THE BARRIER ON THE BRIDGE DECK PER PCB-91

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 163+00 TO STA. 175+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.80 TOTAL P.1135

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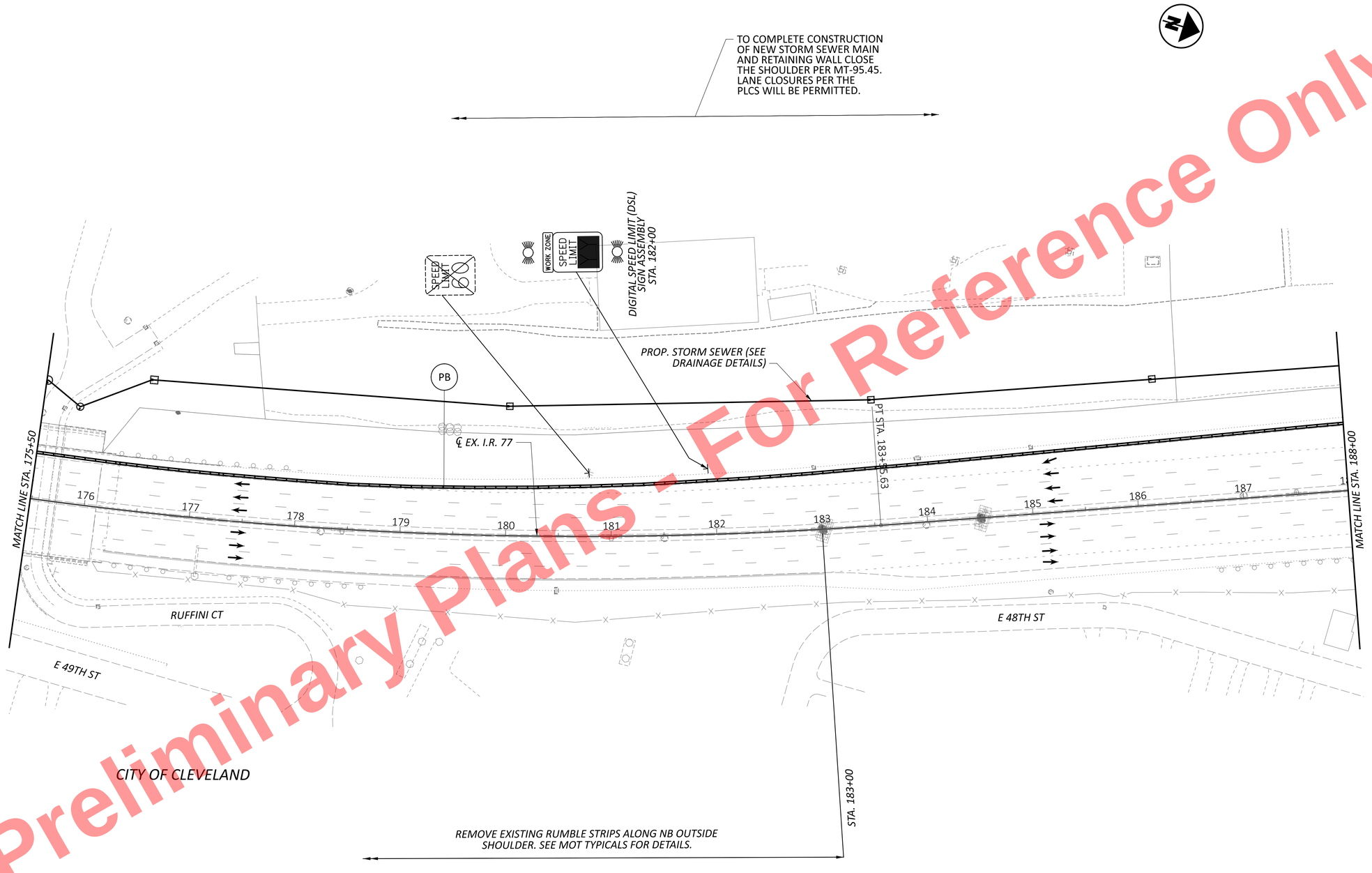
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 175+50 TO STA. 188+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.81 TOTAL P.1135

Preliminary Plans - For Reference Only

* - CLOSE AND DETOUR RAMP D2 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D183A AND D193. RESTORE THE TRENCH WITH ITEM 615.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615.CURB WILL NOT BE RESTORED.GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

STA. 194+75

STA. 195+00

STA. 199+50

EX. CANTILEVER SIGN IMPACTED BY STS WORK. COMPLETE THE REMOVAL AND CONSTRUCT THE PERMANENT CANTILEVER SIGN THIS PHASE WITH LANE CLOSURES PER THE PLCS AND MT-95.30. PLACE A PCMS IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF PROPOSED.

IA

PB

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

RAMP D2 (OPEN*)

RELOCATE CCTV CAMERA

ABANDON DA266

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO D195.

BROADWAY AVE C-D ROAD

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA284 OR D201.

+00

188 189 190 191 192 193 194 195 196 197 198 199 200

MATCH LINE STA. 188+00

MATCH LINE STA. 200+50

PC STA. 188+18.55

RAMP D1 (OPEN)

℄ EX. I.R. 77

+80

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

STA. 196+11.80

SPEED LIMIT 50

IA

PB

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA283

D206

PERSHING AVE.

STA. 191+00

REMOVE CURB AND GRADE TEMPORARY SWALE.SEE MOT CROSS SECTIONS FOR DETAILS.

STA. 190+00

STA. 190+25

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

Digital Speed Limit (DSL) Sign Assembly (STA. 196+50)

SPEED LIMIT

WORK ZONE

EX. TRUSS TO REMAIN UNTIL PHASE 3. DO NOT DISTURB

ABANDON DA266

ABANDON DA283 TEMPORARY CONNECT D206 HERE IN PREPHASE.

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 188+00 TO STA. 200+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.82 TOTAL P.1135

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 200+50 TO STA. 213+00

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

STA. 204+00

PB

IA

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

℄ EX. I.R. 77

BROADWAY AVE C-D ROAD

WORK ZONE SPEED LIMIT YY

DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY (STA. 210+00)

MATCH LINE STA. 200+50

MATCH LINE STA. 213+00

201 202 203 204 205 206 207 208 209 210 211 212

ABANDON DA287

ABANDON DA294

RAMP E1 (OPEN)

ABANDON DA303

ABANDON DA305

GUARDRAIL IMPACTED BY SEWER WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

EX. TRUSS TO REMAIN UNTIL PHASE 2. DO NOT DISTURB

REMOVE AND RELOCATE PER THE ENGINEER. USE TEMP SUPPORTS PER MT-105.10

REMOVE CURB AND GRADE TEMPORARY SWALE. SEE MOT CROSS SECTIONS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

FINN AVE

BROADWAY AVE

CITY OF CLEVELAND

*REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR-77 AND RAMP E1). SEE MOT TYPICALS FOR DETAILS.*

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.83 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_i077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:58 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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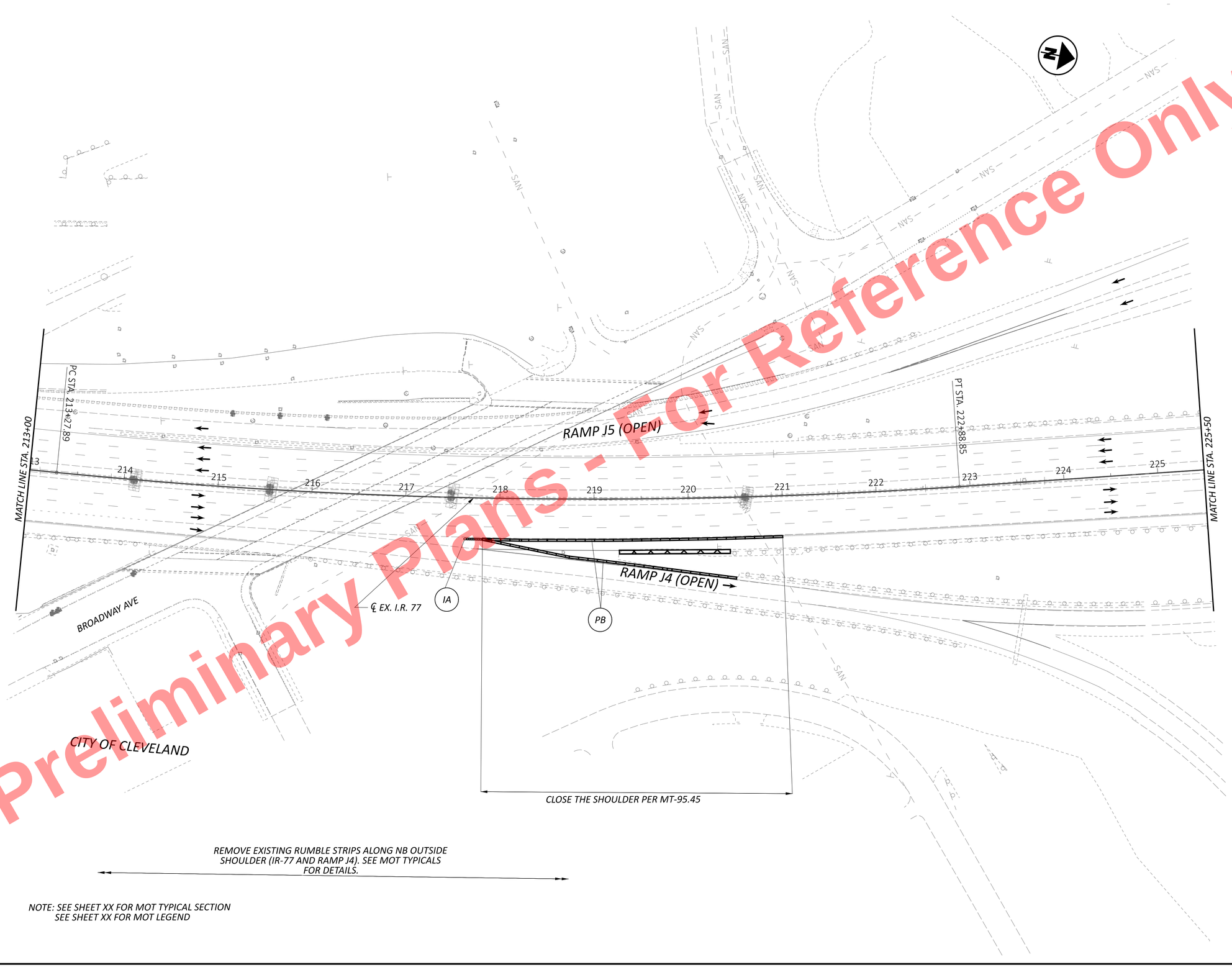
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# STA. 213+00 TO STA. 225+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.84 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:08:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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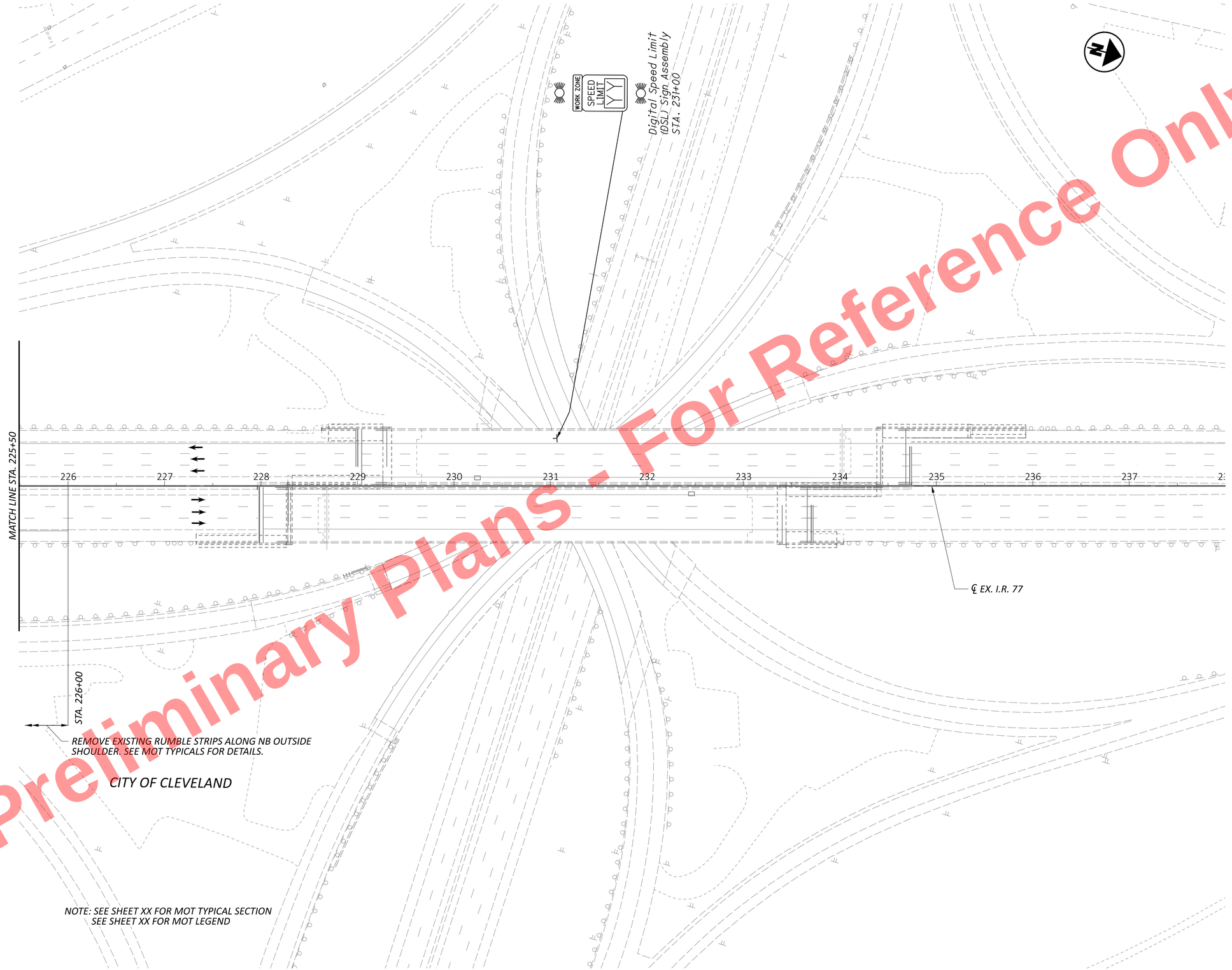
CUY-77-11.43 - PART 1




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
## STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.85 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

USE ASPHALT CONCRETE FOR MOT TO CREATE ADA ACCESSIBLE RAMP FROM CROSSWALK TO ISLAND

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ON EXISTING SIGNAL POLE

PEDESTRIAN DETOUR ROUTE SIGN PER MT-110.10

RADIUS = 25'

PC STA. 16+58.29

GRANT AVENUE

17

18

19

20

21

22

6'

+97

CW

DRUMS @ 10' SPA.

ASPHALT CONCRETE FOR MOT TO CREATE ADA ACCESSIBLE RAMP WHEN WESTERN CURB RAMP IS CONSTRUCTED (NOT SHOWN)

RADIUS = 65'

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ON EXISTING SIGNAL POLE

SIDEWALK CLOSED PER MT-110.10

RADIUS = 35'

CLOSE RIGHT LANE PER MT-95.41

DRUMS @ 20' SPA.

10'

PC STA. 75+26.62

75

FLARE END OF PB BEYOND CLEAR ZONE

ELW

ELY

PB

RAMP A2 (OPEN)

CLOSE RIGHT LANE WITH DRUMS PER MT-95.31

DRUMS @ 10' SPA.

℄ EX. R/W GRANT AVE

CONVERT CURB LANE TO RIGHT TURN ONLY. PLACE SIGNS AND WORK ZONE LANE ARROWS.

ASPHALT CONCRETE FOR MOT TO CREATE ADA ACCESSIBLE RAMP WHEN EASTERN CURB RAMP IS CONSTRUCTED (NOT SHOWN)

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ON EXISTING SIGNAL POLE

8'

+90

CW

RADIUS = 40.0'

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ON EXISTING SIGNAL POLE

SIDEWALK CLOSED PER MT-110.10

RADIUS = 35'

DRUMS @ 10' SPA.

RAMP A1 (OPEN)

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PRE-PHASE 1
# GRANT AVENUE

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.86 TOTAL P.1135

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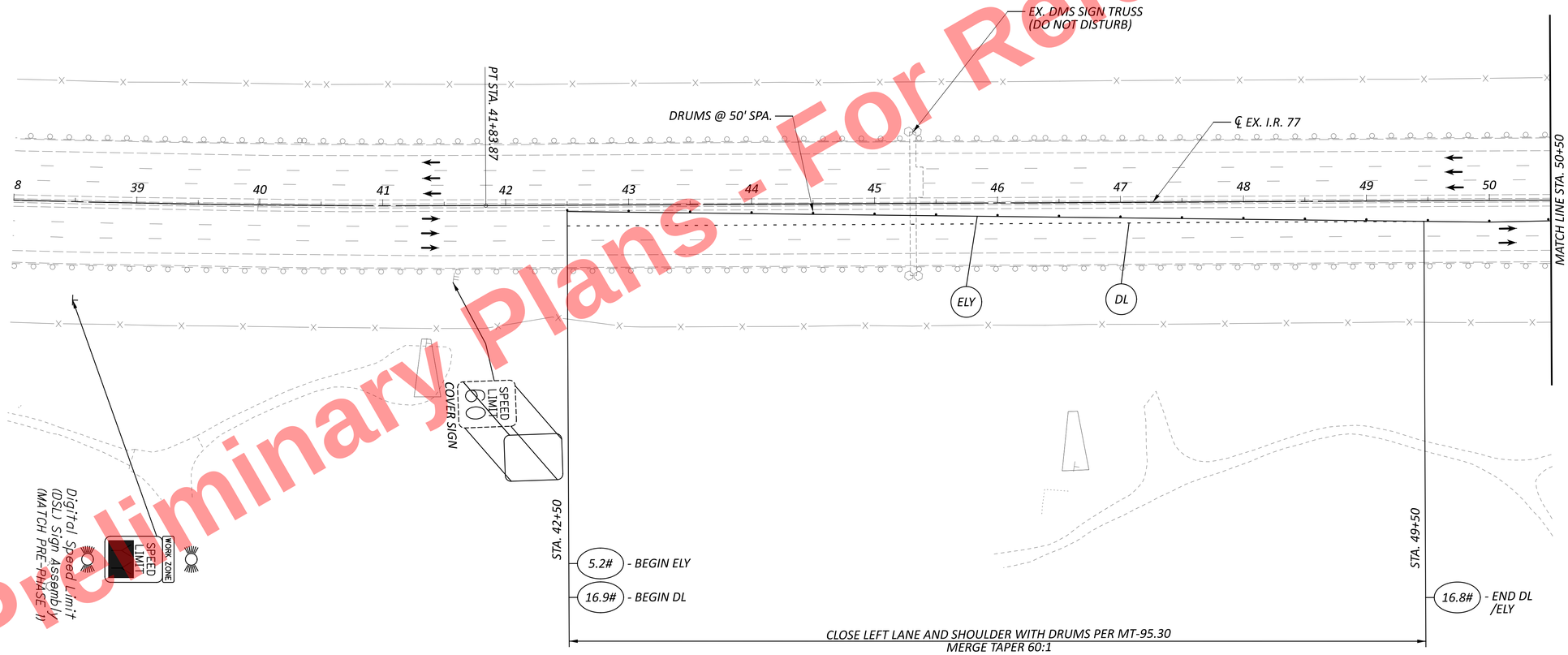
LEGEND

- IA - WORK ZONE IMPACT ATTENUATOR
- ELW - WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- ELY - WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- LA - WORK ZONE LANE ARROW, CLASS I
- CHW - WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- DL - WORK ZONE DOTTED LINE, CLASS I
- CL - WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- LL - WORK ZONE LANE LINE, CLASS I, 6"
- # - PROPOSED PAVEMENT MARKING MATCHES THE EXISTING MARKING LOCATION

- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 38+00 TO STA. 50+50

CUY-77-11.43 - PART 1

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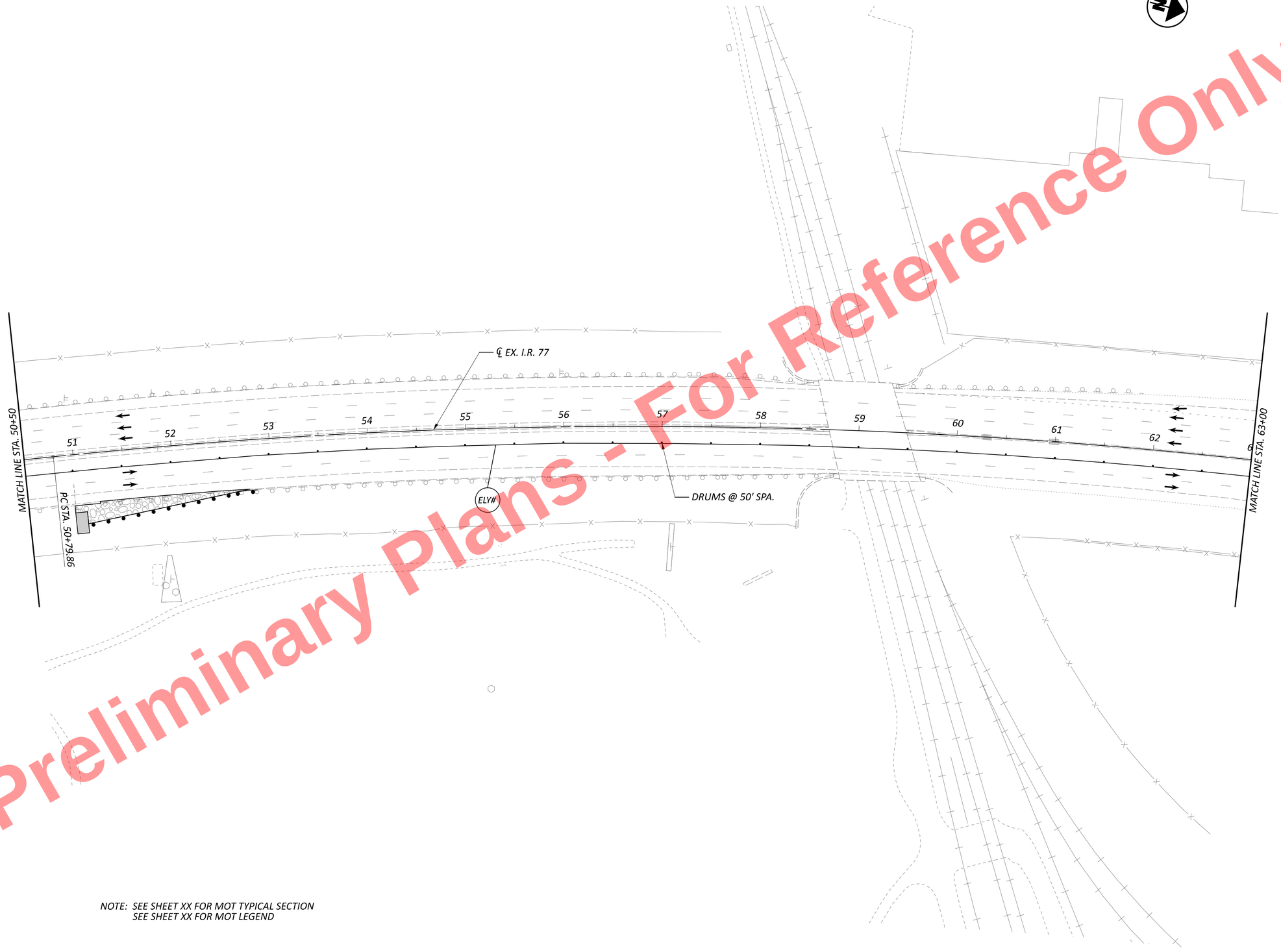
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.87 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 50+50 TO STA. 63+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.88 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077_South - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:17 PM USER: kperkins
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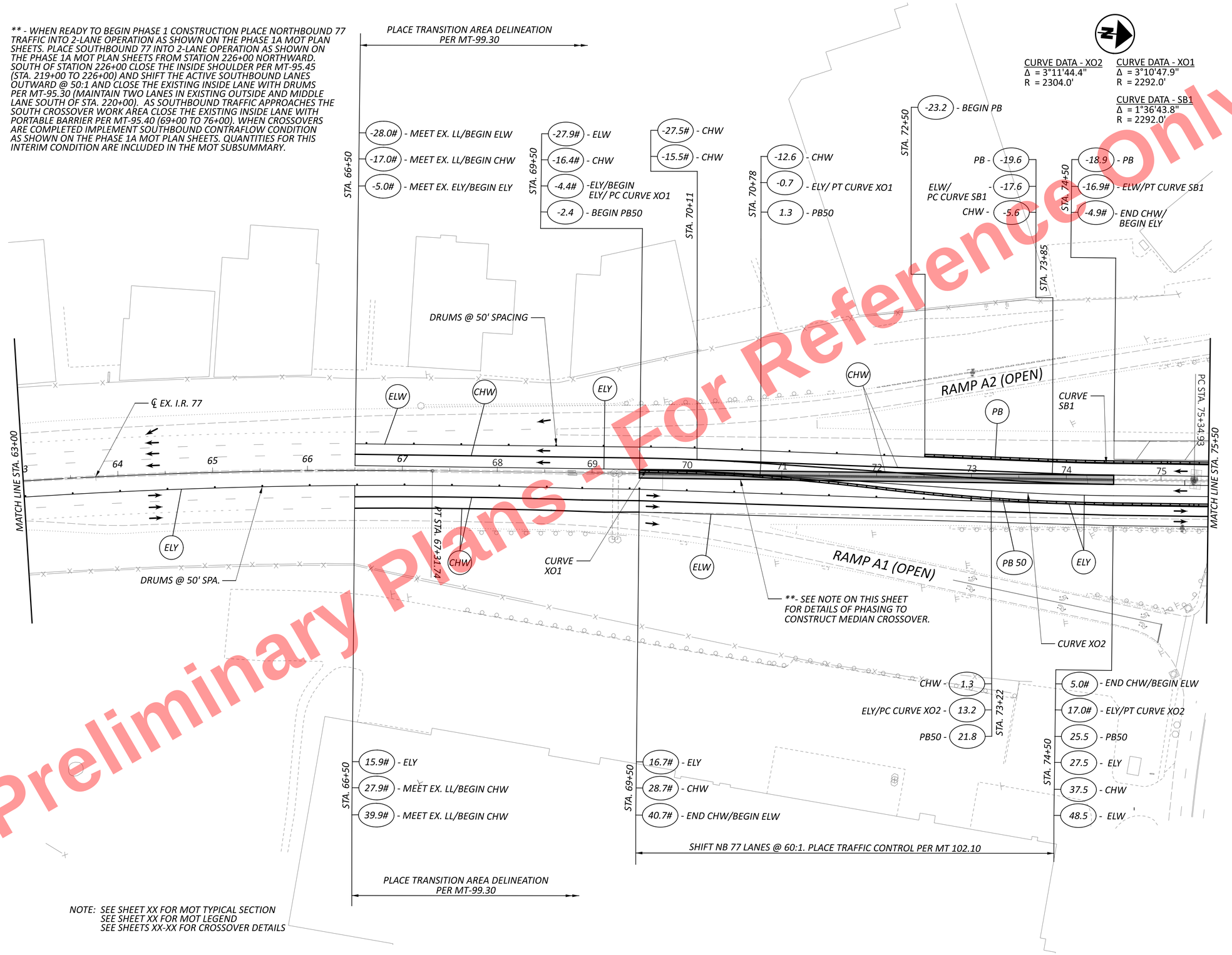
** - WHEN READY TO BEGIN PHASE 1 CONSTRUCTION PLACE NORTHBOUND 77 TRAFFIC INTO 2-LANE OPERATION AS SHOWN ON THE PHASE 1A MOT PLAN SHEETS. PLACE SOUTHBOUND 77 INTO 2-LANE OPERATION AS SHOWN ON THE PHASE 1A MOT PLAN SHEETS FROM STATION 226+00 NORTHWARD. SOUTH OF STATION 226+00 CLOSE THE INSIDE SHOULDER PER MT-95.45 (STA. 219+00 TO 226+00) AND SHIFT THE ACTIVE SOUTHBOUND LANES OUTWARD @ 50:1 AND CLOSE THE EXISTING INSIDE LANE WITH DRUMS PER MT-95.30 (MAINTAIN TWO LANES IN EXISTING OUTSIDE AND MIDDLE LANE SOUTH OF STA. 220+00). AS SOUTHBOUND TRAFFIC APPROACHES THE SOUTH CROSSOVER WORK AREA CLOSE THE EXISTING INSIDE LANE WITH PORTABLE BARRIER PER MT-95.40 (69+00 TO 76+00). WHEN CROSSOVERS ARE COMPLETED IMPLEMENT SOUTHBOUND CONTRAFLOW CONDITION AS SHOWN ON THE PHASE 1A MOT PLAN SHEETS. QUANTITIES FOR THIS INTERIM CONDITION ARE INCLUDED IN THE MOT SUBSUMMARY.




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEETS XX-XX FOR CROSSOVER DETAILS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 63+00 TO STA. 75+50

DESIGN AGENCY: HNTB

DESIGNER: CC
REVIEWER: MTR 11/20/25
PROJECT ID: 105743
SHEET: P.89 TOTAL: P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:17 PM USER: kperkins
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CUY-77-11.43 - PART 1

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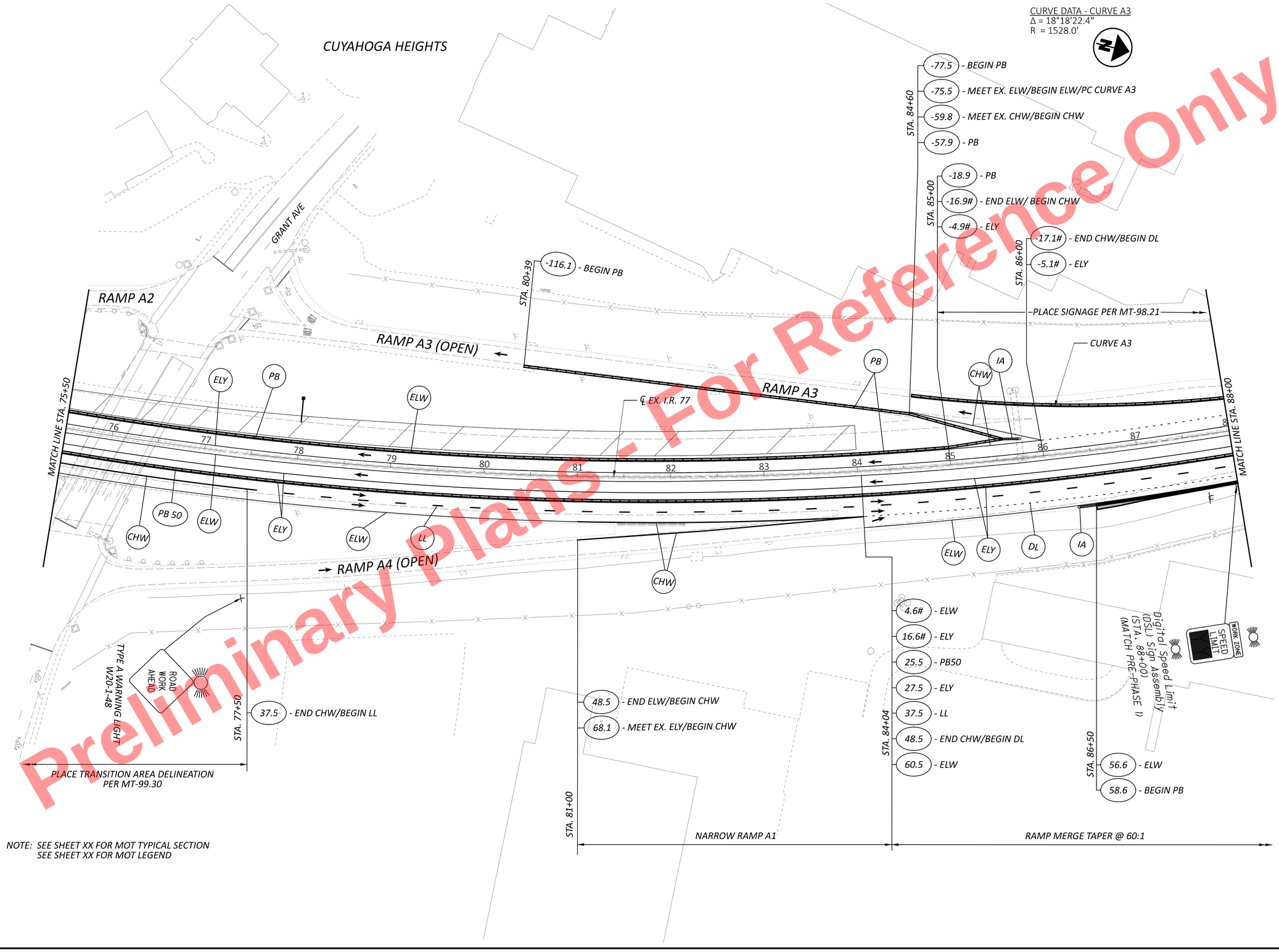


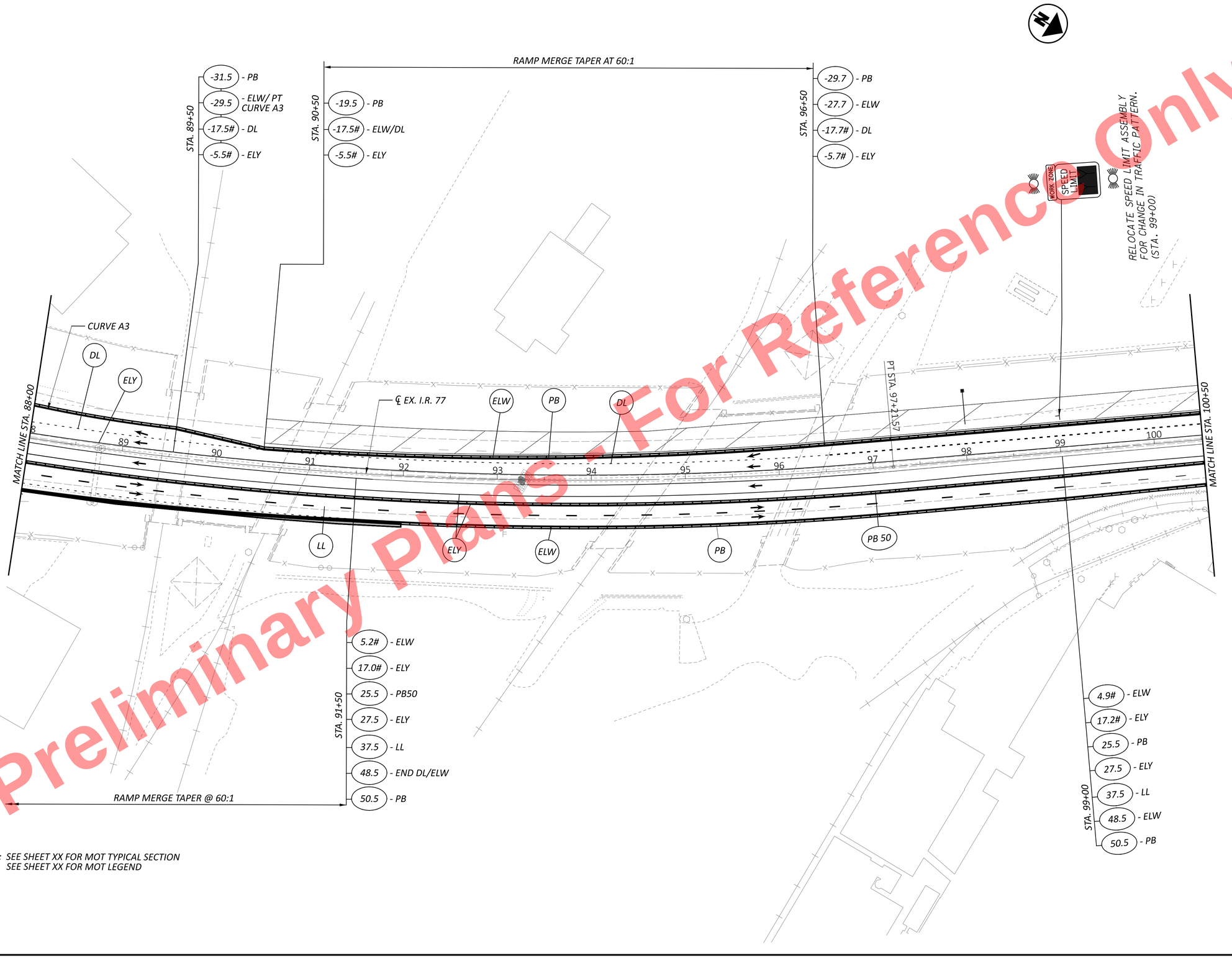

For Reference Only
Preliminary Plans - For

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.90 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.91 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:19 PM USER: kperkins
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CURVE DATA - CURVE B1
Δ = 16°40'33.2"
R = 731.0'

CURVE DATA - CURVE B2
Δ = 5°08'08.9"
R = 1633.89'

STA. 104+00
-28.6 - PB
-26.6 - ELW/PC CURVE B2
-16.6# - END DL/BEGIN CHW
-5.6# - ELY

STA. 105+46
-37.6 - PB
-35.6 - ELW/PT CURVE B2
-25.7 - END CHW/BEGIN ELY

STA. 106+64
-18.8 - BEGIN PB
-16.8# - ELW
-4.8# - ELY

STA. 109+10
-98.0 - PB
-96.0 - END ELW/ MEET EX. ELW
-80.3 - END ELY/ MEET EX. ELY

TYPE A WARNING LIGHT
W20-1-48
ROAD WORK AHEAD
W4-1R
IA
RAMP B2 (OPEN)
CURVE B2
ELW
DL
PB
CHW
ELW
PB
ELY
ELY
MATCH LINE STA. 100+50
101
102
103
104
105
106
107
108
109
110
111
112
MATCH LINE STA. 113+00
PC STA. 103+22.36
ELW
DL
CHW
PB 50
IA
ELW
℄ EX. I.R. 77
PB
LL
ELY
RAMP B1 (OPEN)
CURVE B1
G20-2-48
ROAD WORK END
HARVARD AVE

STA. 101+50
4.9# - ELW
17.7# - ELY
23.5 - PB50
25.5 - ELY
35.5 - LL
46.5 - ELW/DL

STA. 103+00
46.5 - DL
56.5 - ELW

STA. 105+38
46.5 - END DL/CHW
56.5 - ELW/PC CURVE B1

STA. 107+22
67.5 - CHW/MEET EX. ELY
82.4 - ELW/PT CURVE B1 /MEET EX. ELW

PLACE SIGNAGE PER MT-98.21

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
# STA. 100+50 TO STA. 113+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:19 PM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.92 TOTAL P.1135

CURVE DATA - CURVE B4
Δ = 5°24'31.4"
R = 1,302.67'

CURVE DATA - CURVE B3
Δ = 3°34'13.5"
R = 1,557.92'

NEWBURGH HEIGHTS

RAMP B3 (OPEN)

RAMP B4 (OPEN)

℄ EX. I.R. 77

MATCH LINE STA. 113+00

MATCH LINE STA. 125+50

STA. 118+90
-107.6 - BEGIN PB
-105.6 - ELW/ MEET EX. ELW
-88.8 - ELY/ MEET EX. ELY
-86.8 - BEGIN PB

STA. 122+50
-50.2 - PB
-48.2 - ELW
-31.5 - END ELY/BEGIN CHW
-16.5# - END ELW/BEGIN CHW
-4.6# - ELY

STA. 124+00
-35.0 - PB
-33.0 - ELW
-16.6# - END CHW/ BEGIN DL
-4.6# - ELY

STA. 124+04
-32.7 - ELW/PC CURVE B3
-30.6 - PB
-28.6 - ELW/ PC CURVE B3
-16.6# - DL
-4.60# - ELY

STA. 125+00

CURVE B3

CURVE B4

TYPE A WARNING LIGHT
W20-1-48
ROAD WORK AHEAD

STA. 118+00
46.5 - END ELW/ BEGIN CHW
64.5# - MEET EX. ELY/ BEGIN CHW

STA. 119+82
52.5# - CHW
65.9# - MEET EX. ELW/ BEGIN ELW

STA. 120+76
60.6 - ELW/PC CURVE B4

STA. 122+00
4.2# - ELW
16.2# - ELY
23.5 - PB50
25.5 - ELY
35.5 - LL
46.5 - END CHW/BEGIN DL
-56.5 - ELW/PT CURVE B4

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 113+00 TO STA. 125+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:20 PM USER: kperkins
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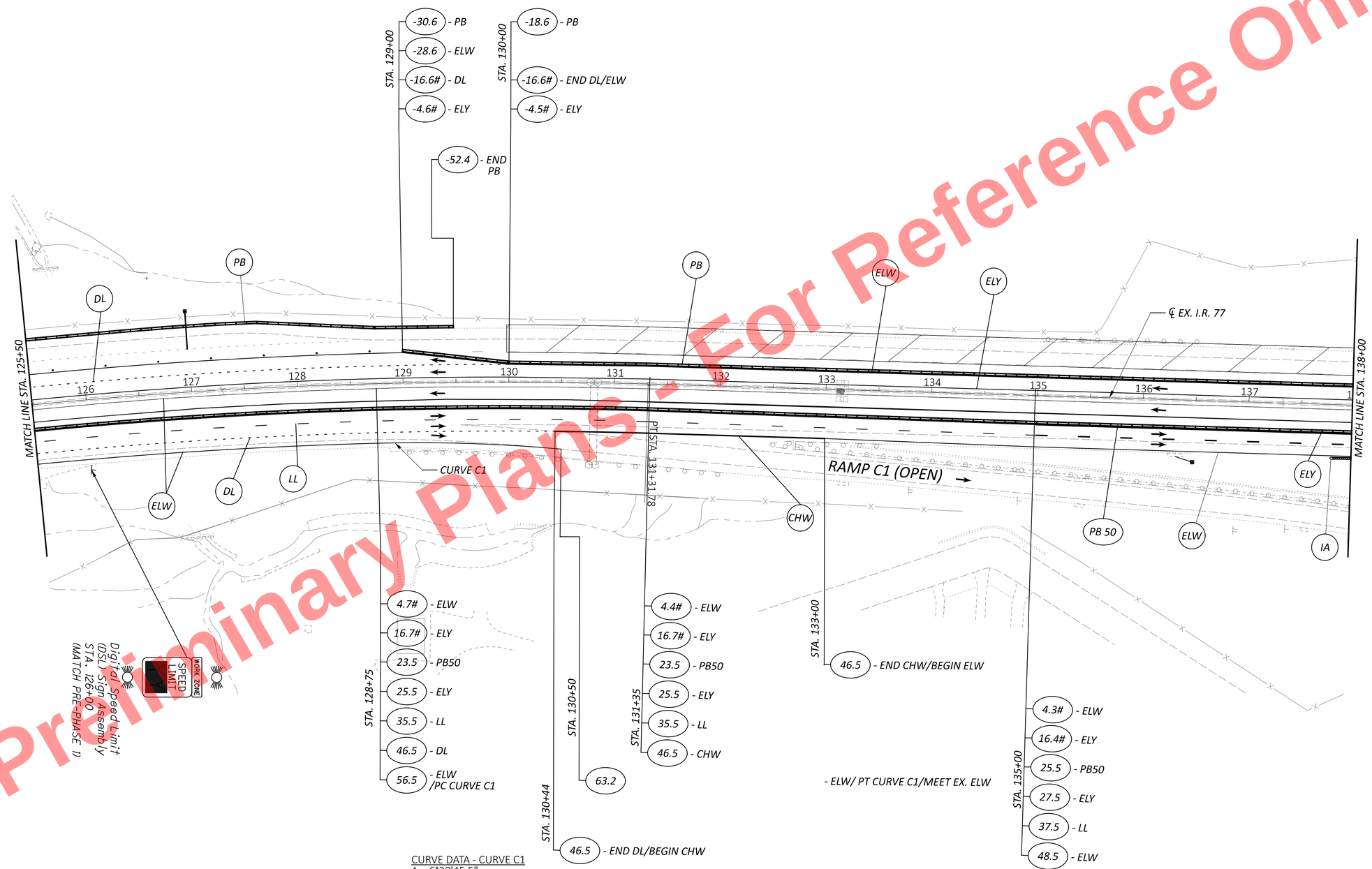
DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.93 TOTAL P.1135




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

CURVE DATA - CURVE C1
Δ = 6°38'45.5"
R = 1,495.00'

For Reference Only
Preliminary Plans - Le

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 125+50 TO STA. 138+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:21 PM USER: kperkins
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DESIGN AGENCY
HNTB

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|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.94 |
| TOTAL | P.1135 |

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:21 PM USER: kperkins
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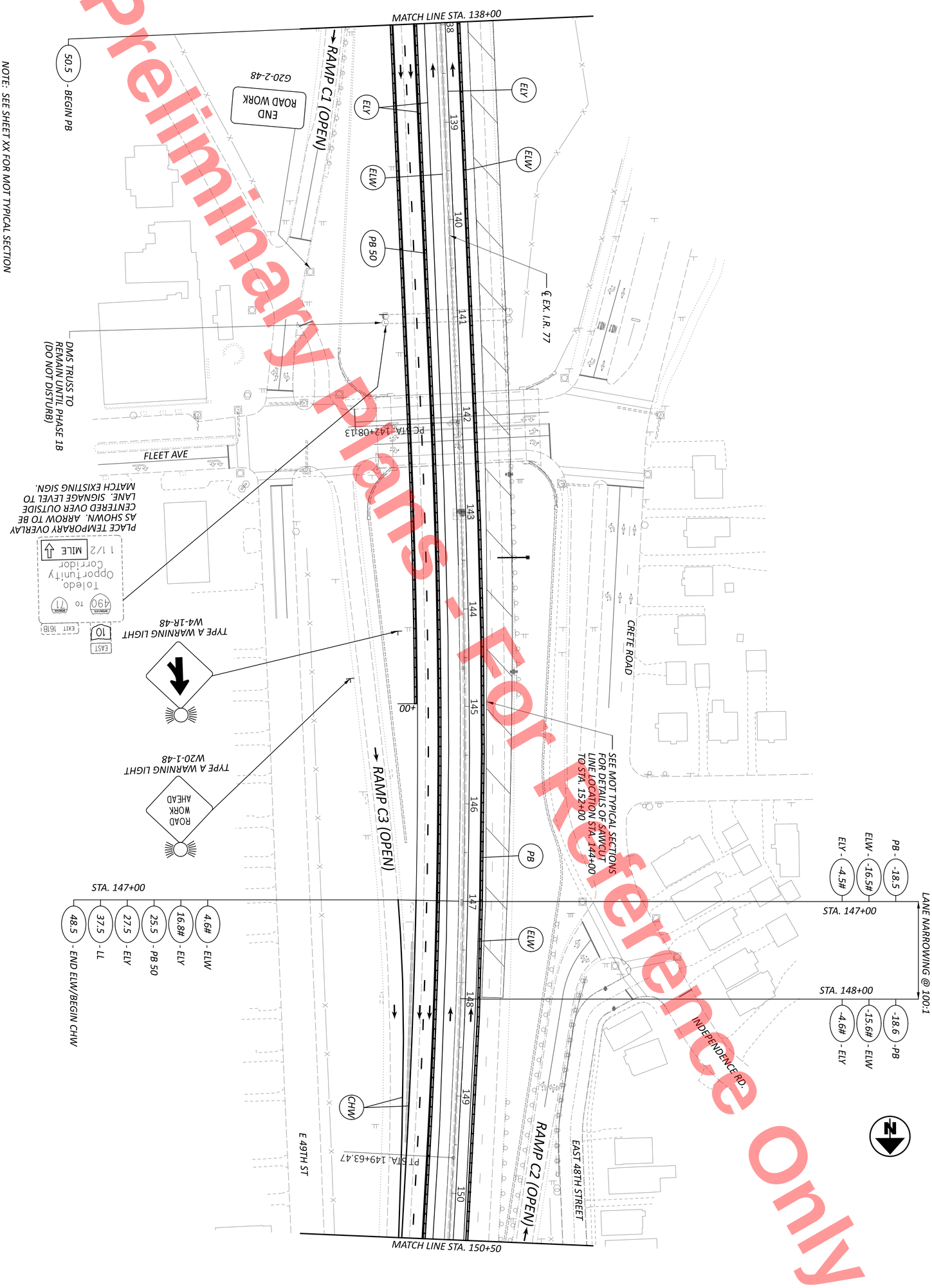


Preliminary Plans - For Reference Only

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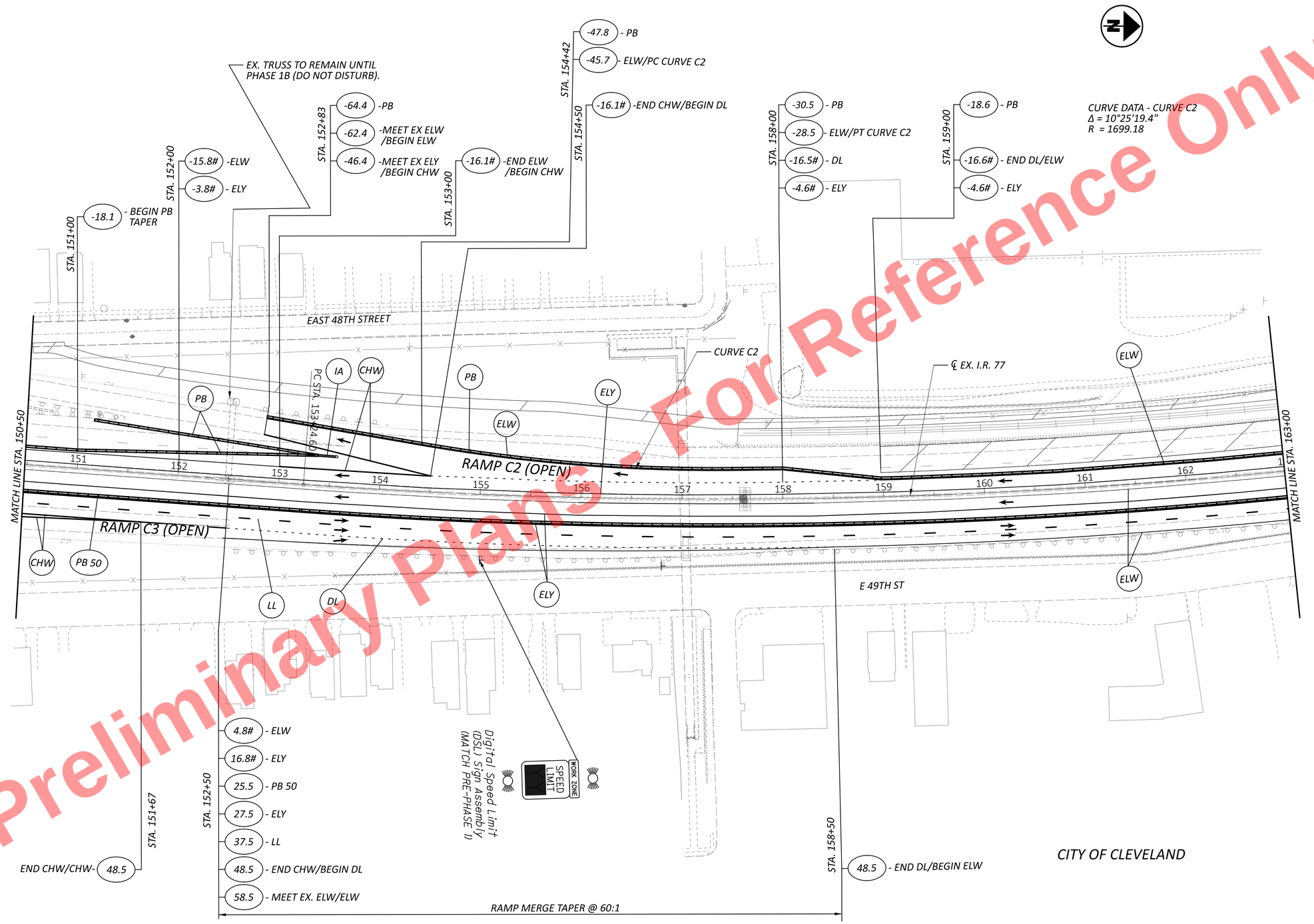
| DESIGN AGENCY: HNTB | DESIGNER: CC | REVIEWER: MTR 11/20/25 | PROJECT ID: 105743 |
| SHEET: P.95 | TOTAL: P.1135 | | |

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 138+00 TO STA. 150+50

HORIZONTAL SCALE IN FEET
0 25 50 100




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 150+50 TO STA. 163+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:22 PM USER: kperkins
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DESIGN AGENCY
HNTB

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|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.96 |
| TOTAL | P.1135 |

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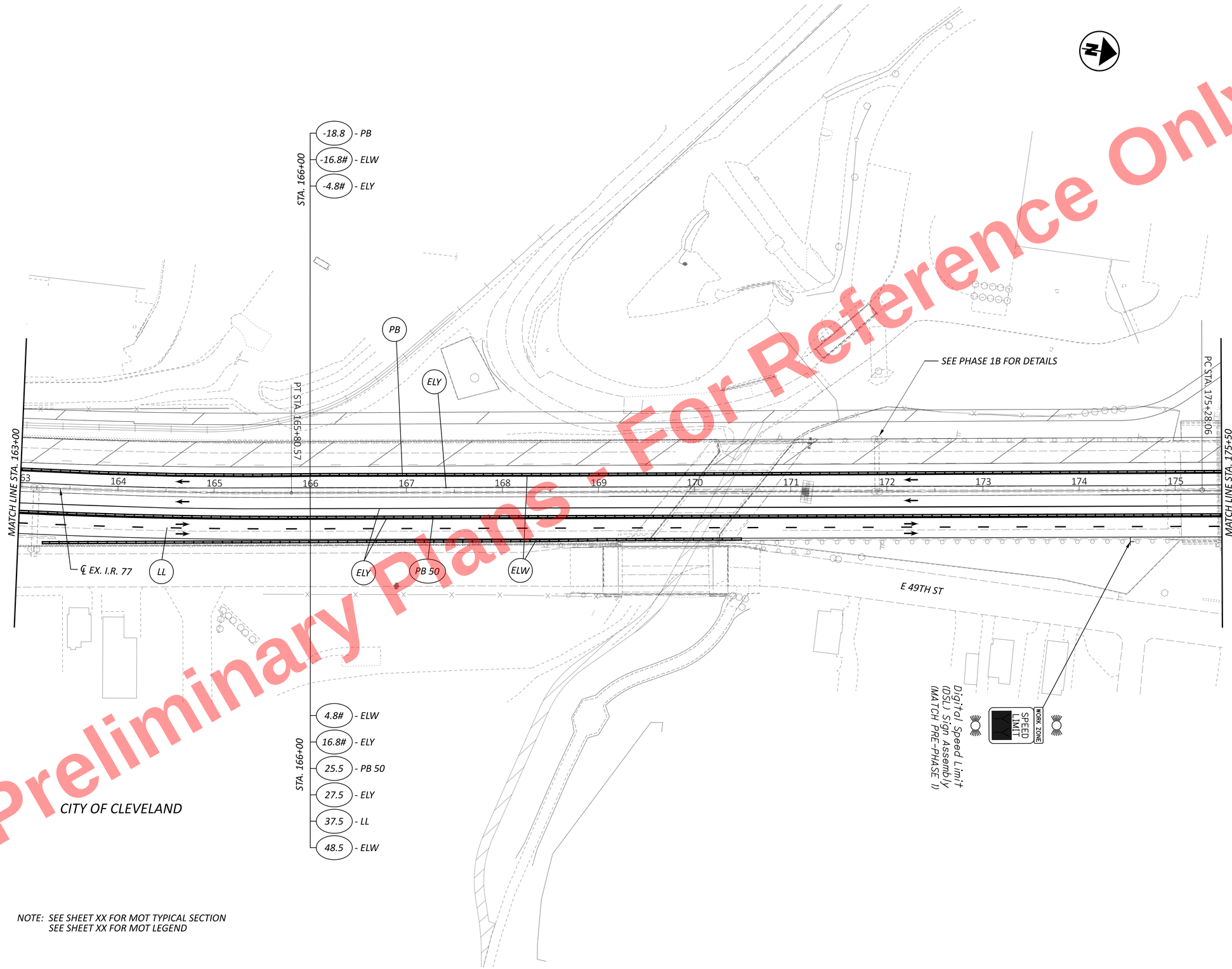


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.97 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:23 PM USER: kperkins
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NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.98 TOTAL P.1135

CUY-77-11.43 - PART 1

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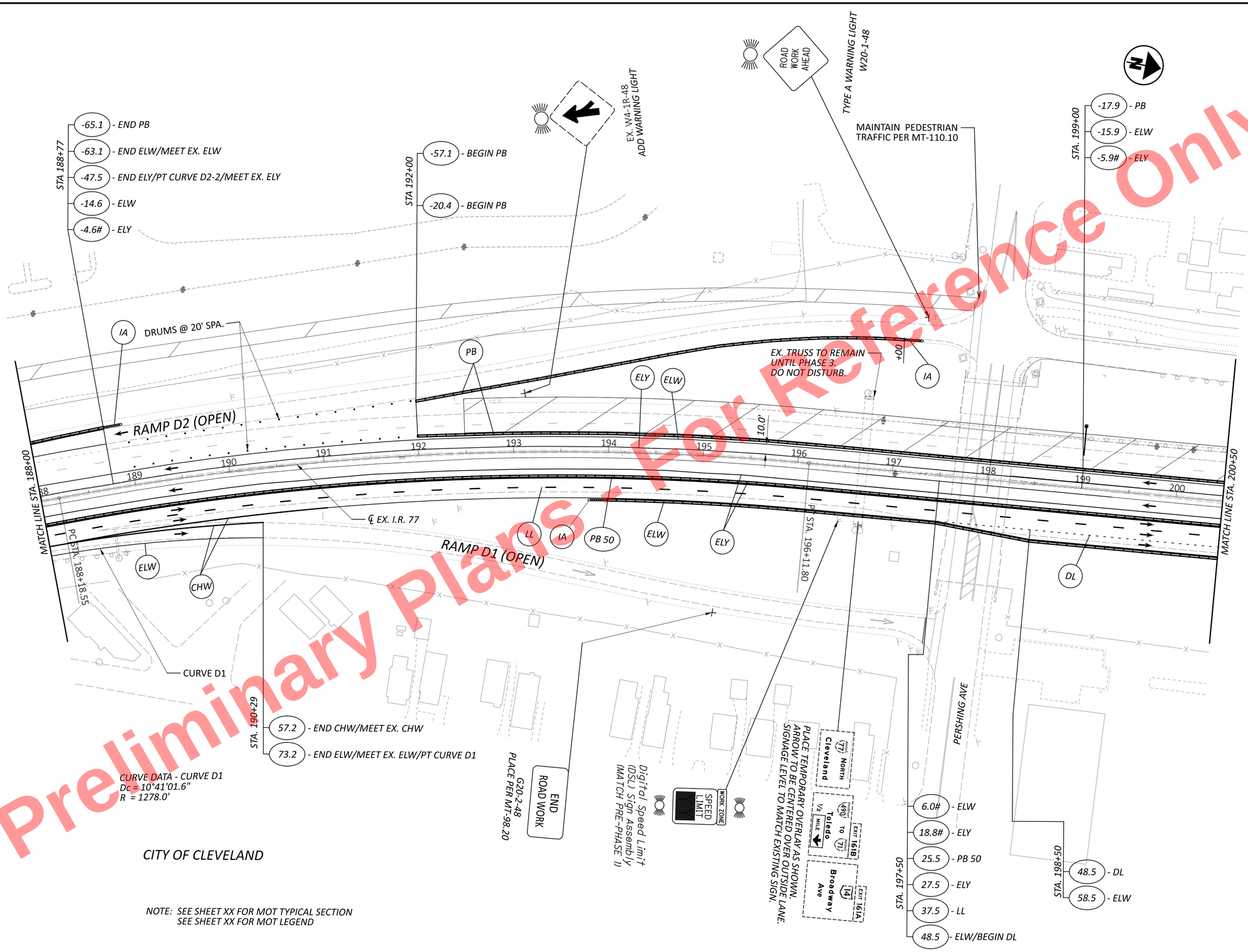
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 188+00 TO STA. 200+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:24 PM USER: kperkins
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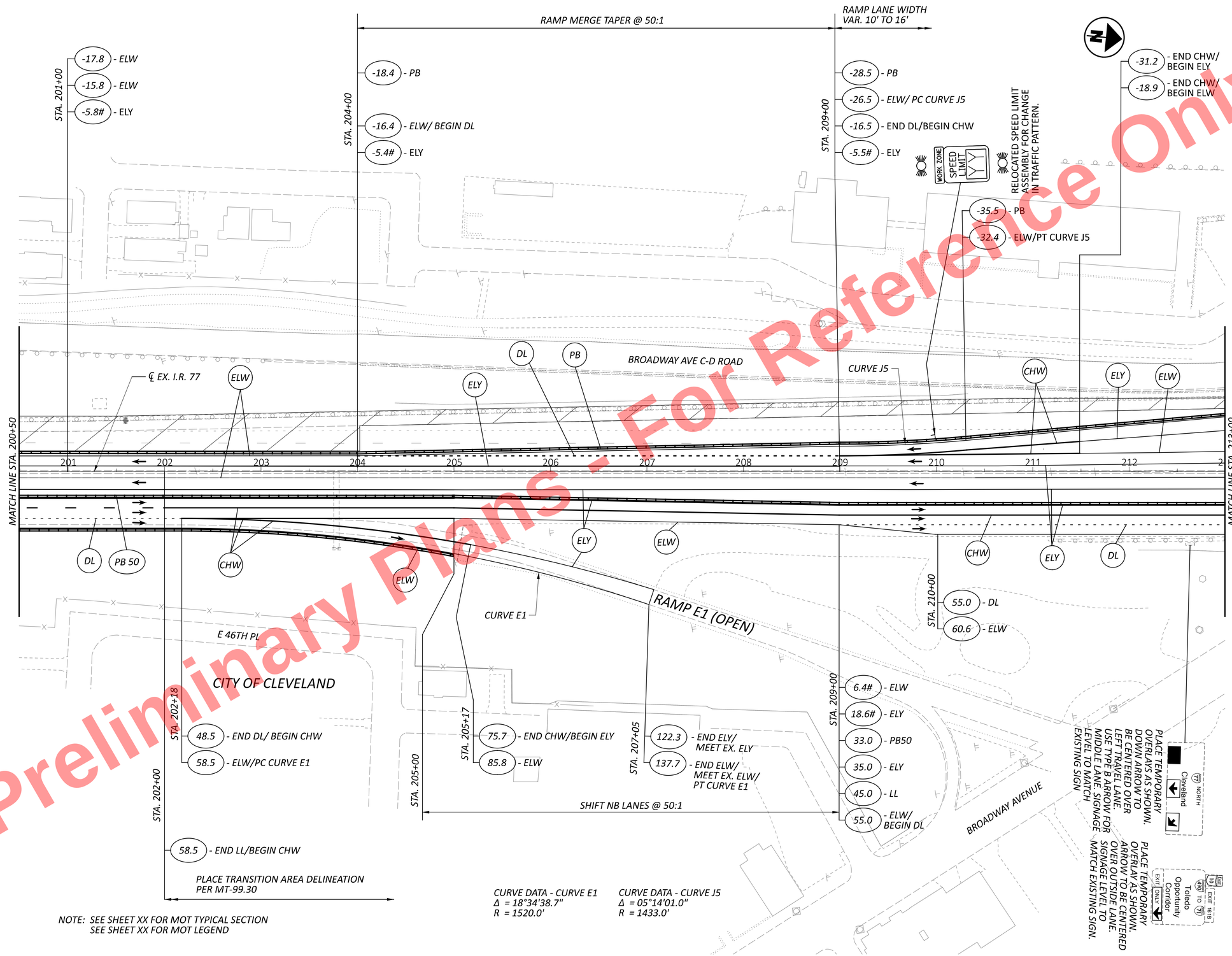
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.99 |
| TOTAL | P.1135 |




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.100 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:25 PM USER: kperkins
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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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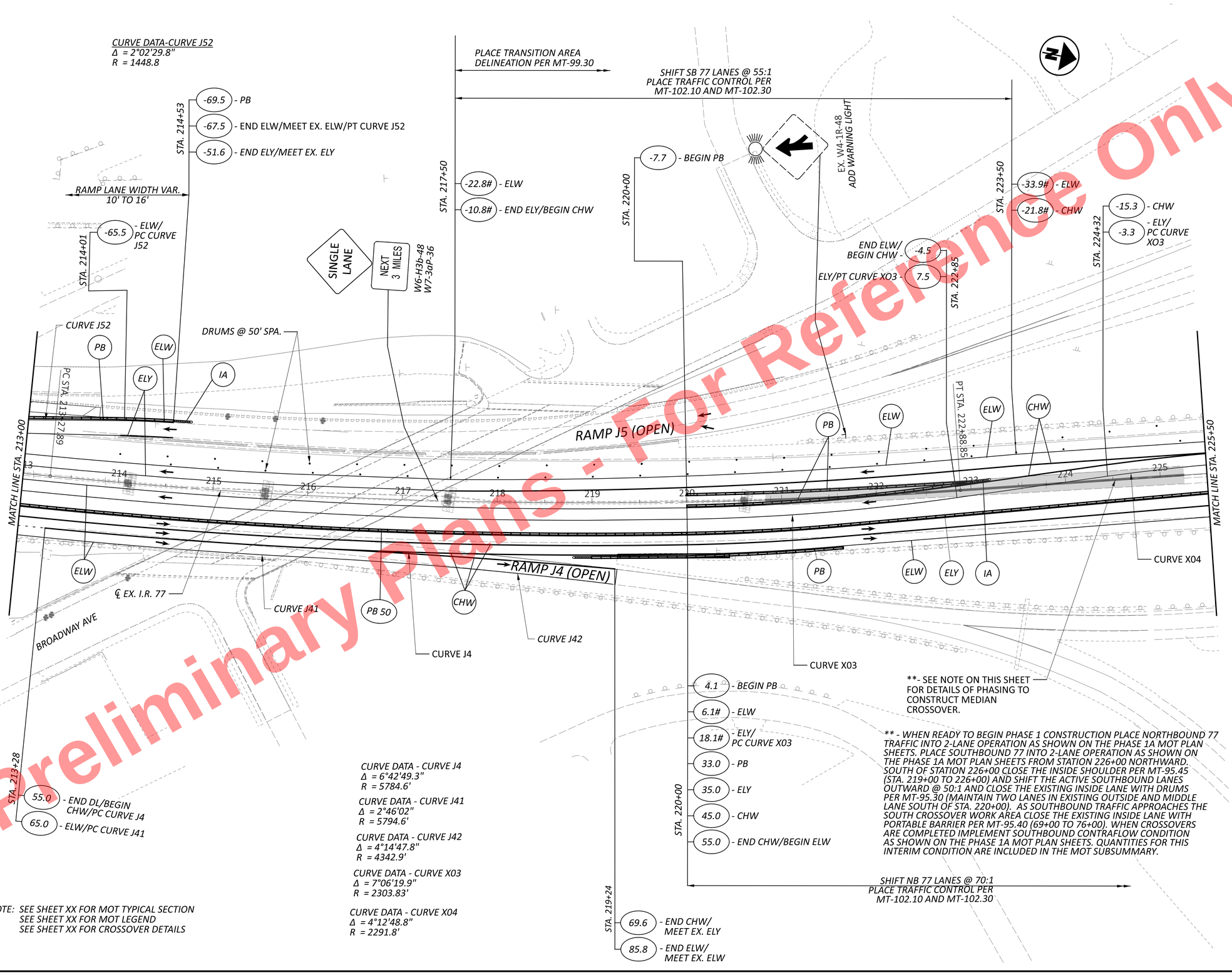
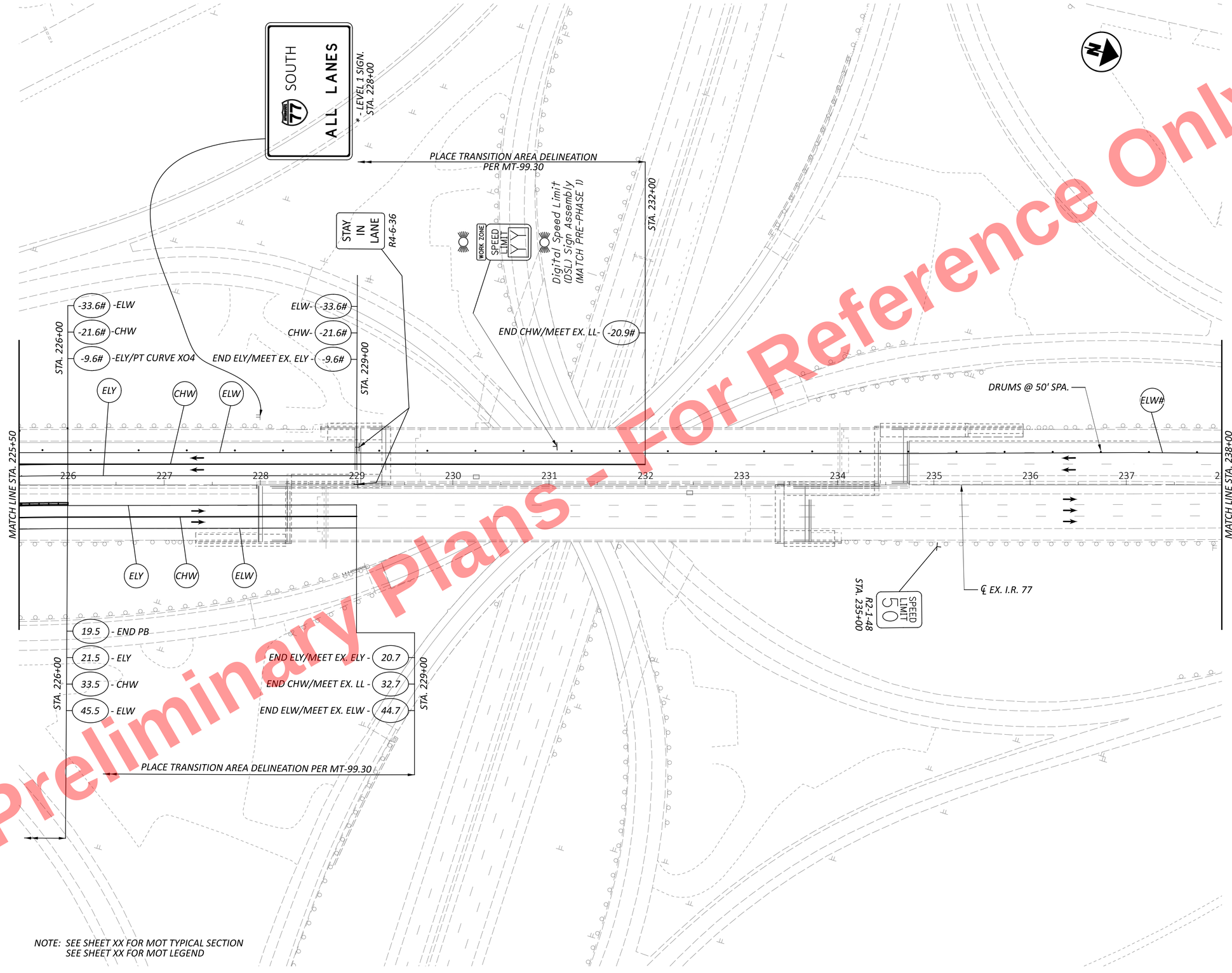



HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.101 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.102 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:27 PM USER: kperkins
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Preliminary Plans - For Reference Only

* - SEE SCD MT-95.72 FOR ADDITIONAL DETAILS AND ADDITIONAL APPROACH SIGNS TO BE PLACED. ENGINEER TO APPROVE FINAL SIGN LAYOUT PRIOR TO INSTALLATION.




* - LEVEL 1 SIGN.
STA. 239+50

CURVE DATA - CURVE NW1
Δ = 5°15'33.4"
R = 2866.0'

-47.5 - MEET EX. CHW/ BEGIN CHW

STA. 244+13

-57.9 - MEET EX. ELW/ BEGIN ELW/ PC CURVE NW1

STA. 245+63

-29.7# -END CHW/BEGIN DL

STA. 246+85

-43.0# - ELW/PT CURVE NW1

STA. 248+26

-31.9# - END ELW/ BEGIN CHW

STA. 241+50

ELW

SPEED LIMIT 50

POT STA. 240+71.71

DRUMS @ 50' SPA.

CURVE NW1

CHW

DRUMS @ 50' SPA.

ELW

DL

MATCH LINE STA. 238+00

238 239 240 241 242 243 244 245 246 247 248 249 250

1,771.37' 1,771.37'

N15°09'47"W

MATCH LINE STA. 250+50

℄ EX. I.R. 77

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
# STA. 238+00 TO STA. 250+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.103 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 17 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:43:12 PM USER: janmurray
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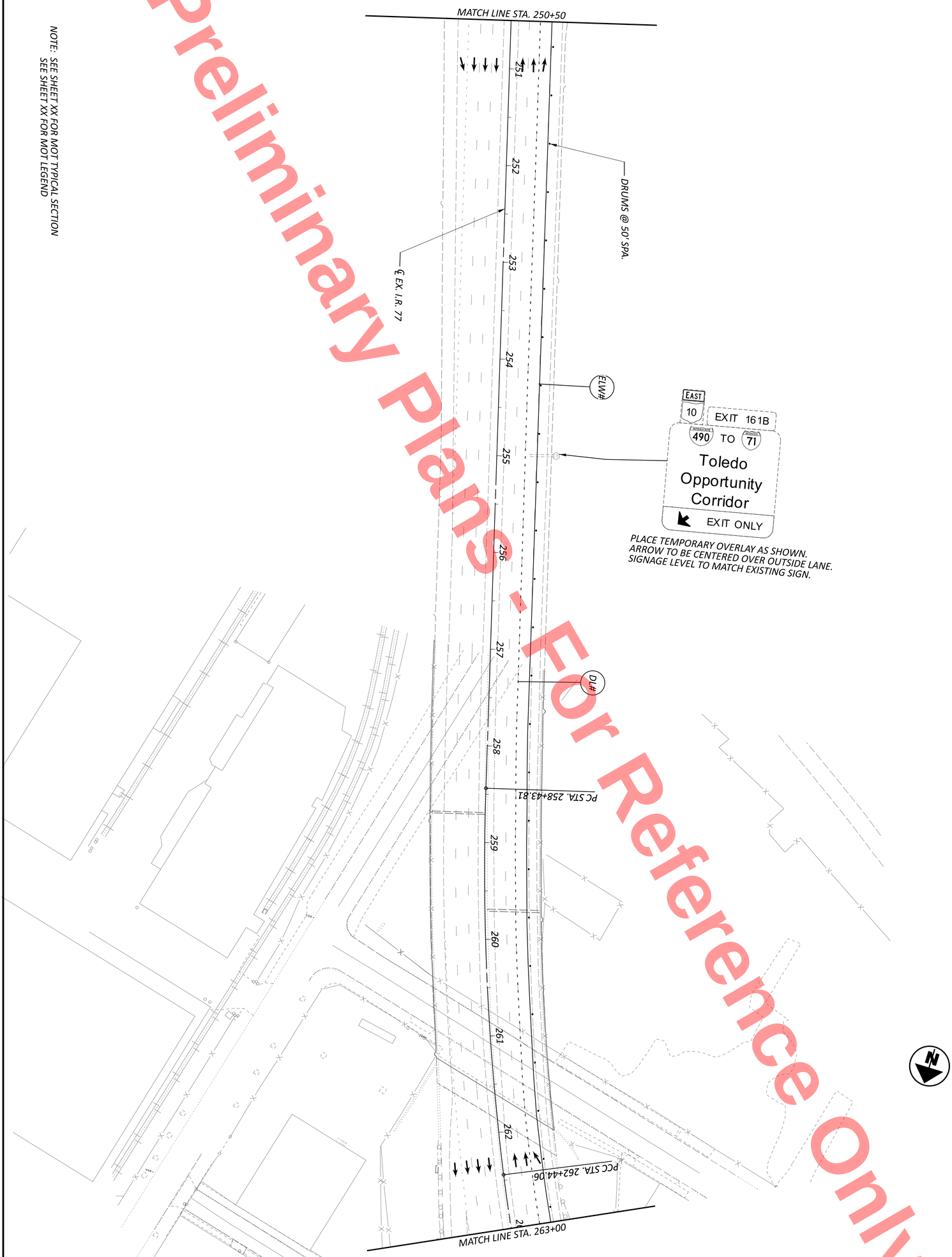
Preliminary Plans - For Reference Only

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND



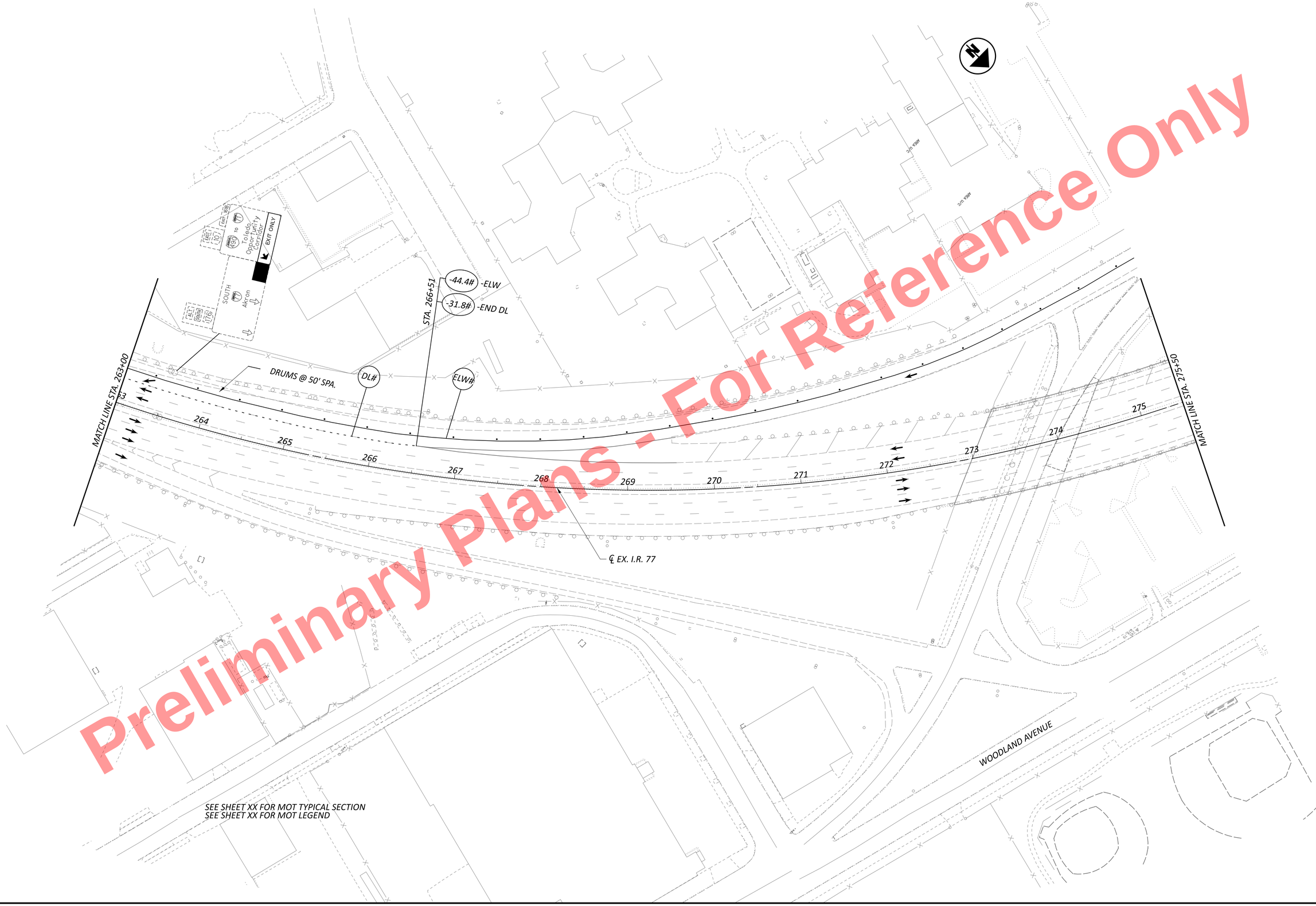

PLACE TEMPORARY OVERLAY AS SHOWN.
ARROW TO BE CENTERED OVER OUTSIDE LANE.
SIGNAGE LEVEL TO MATCH EXISTING SIGN.

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.104 | P.1135 | 105743 | MTR 11/20/25 | CC | HNTB |

# MAINTENANCE OF TRAFFIC - PHASE 1A
# STA. 250+50 TO STA. 263+00

HORIZONTAL SCALE IN FEET
0 50
25 100

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
# STA. 263+00 TO STA. 275+50

DESIGN AGENCY

DESIGNER CC

REVIEWER MTR 11/20/25

PROJECT ID 105743

SHEET P.105 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 19 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:28 PM USER: kperkins
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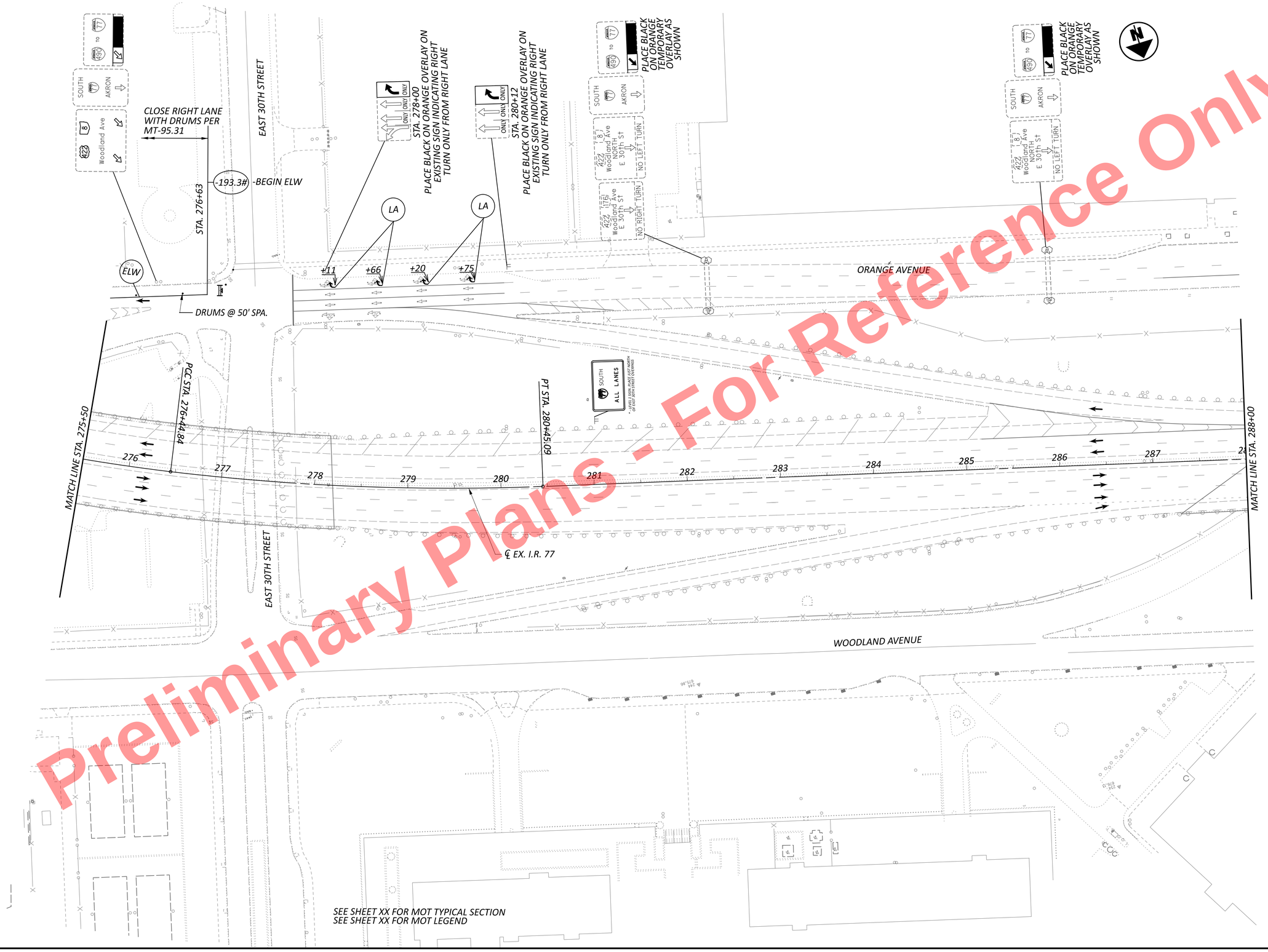
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
# STA. 275+50 TO STA. 288+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.106 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 20 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 4:27:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: jammurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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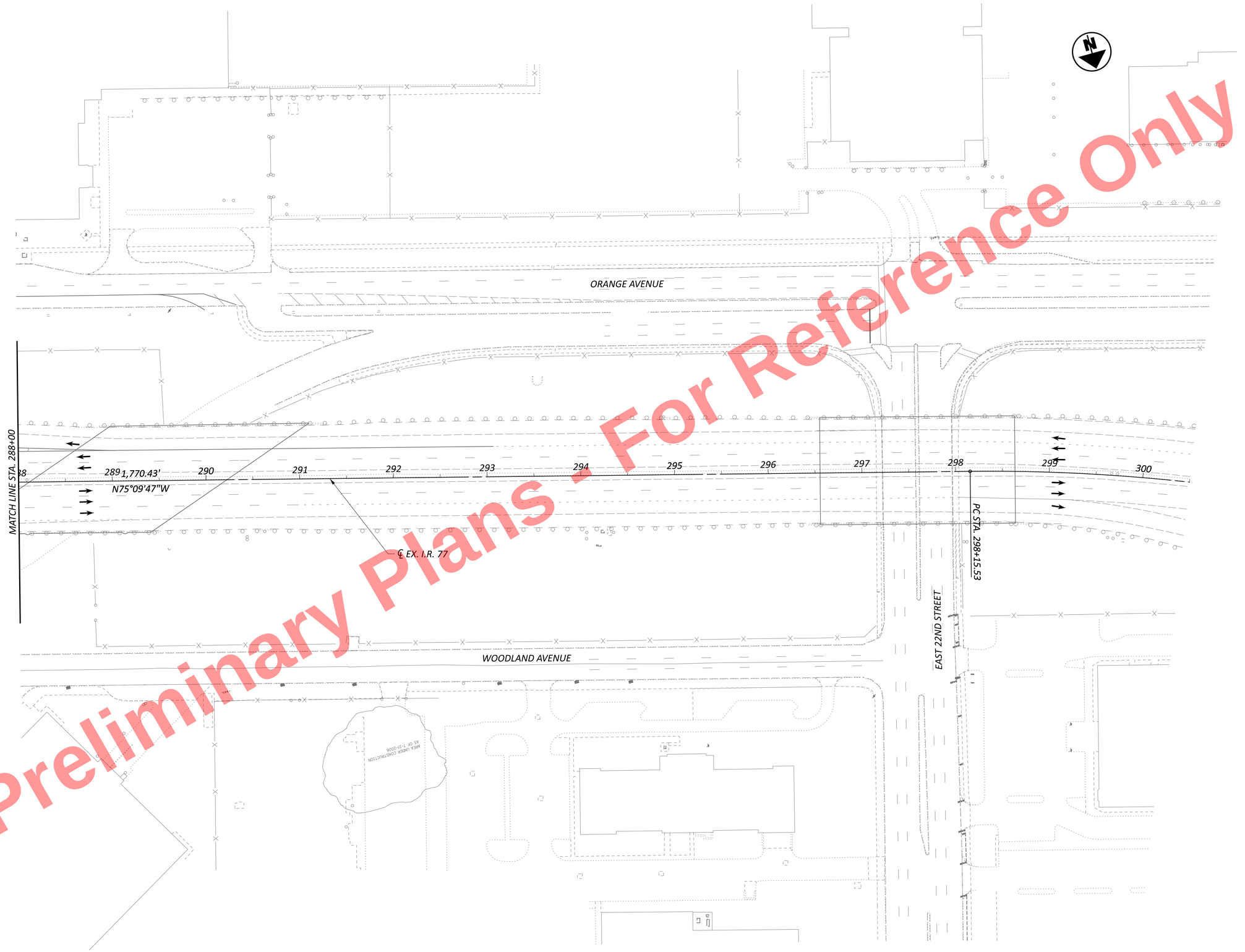
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1A
## STA. 288+00 TO STA. 300+50

CUY-77-11.43 - PART 1

MODEL: CLP_i077 - Plan 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:30 PM USER: kperkins
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DESIGN AGENCY
HNTB

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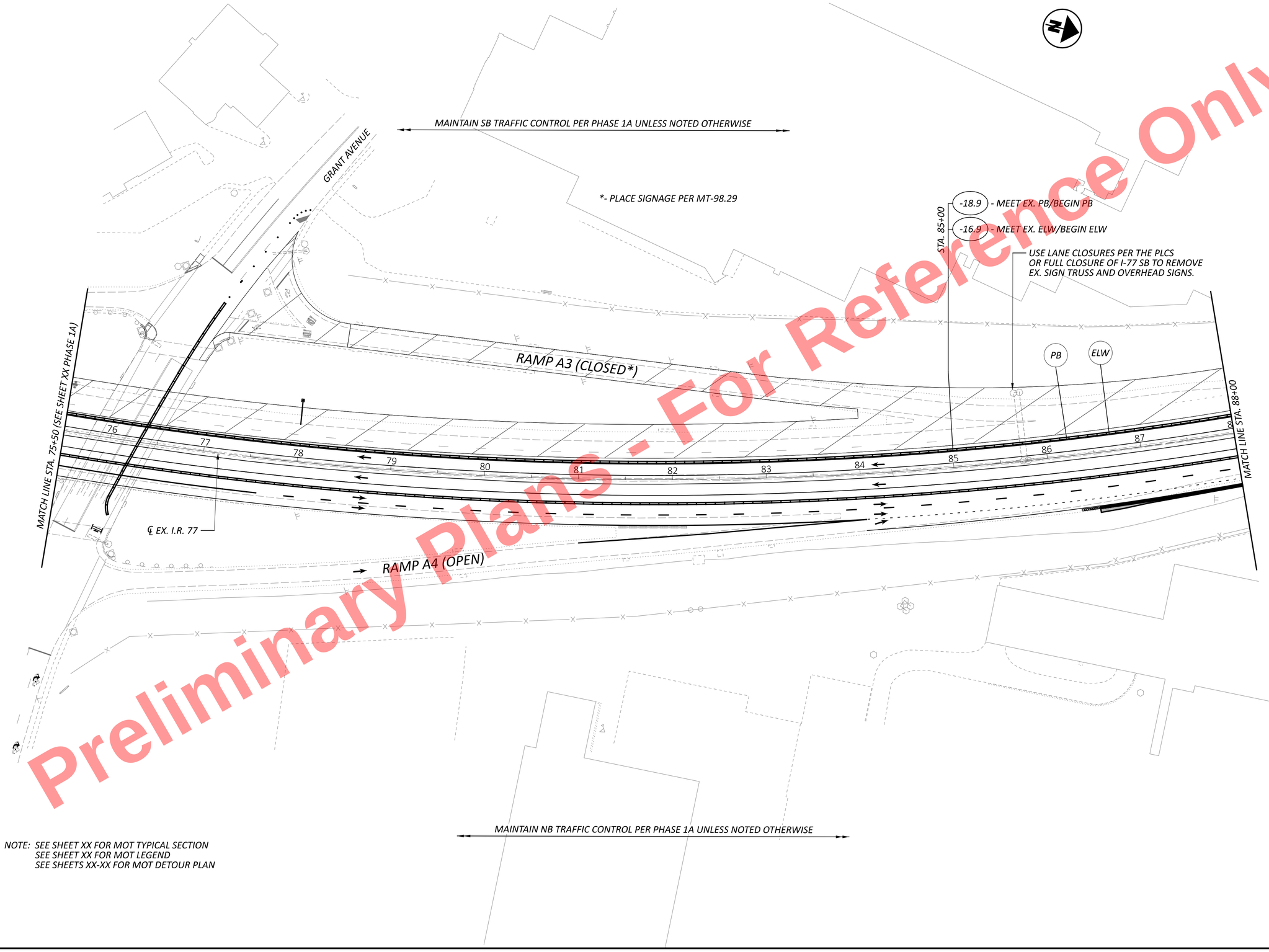
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.107 |
| TOTAL | P.1135 |




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEETS XX-XX FOR MOT DETOUR PLAN

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.108 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:36 PM USER: kperkins
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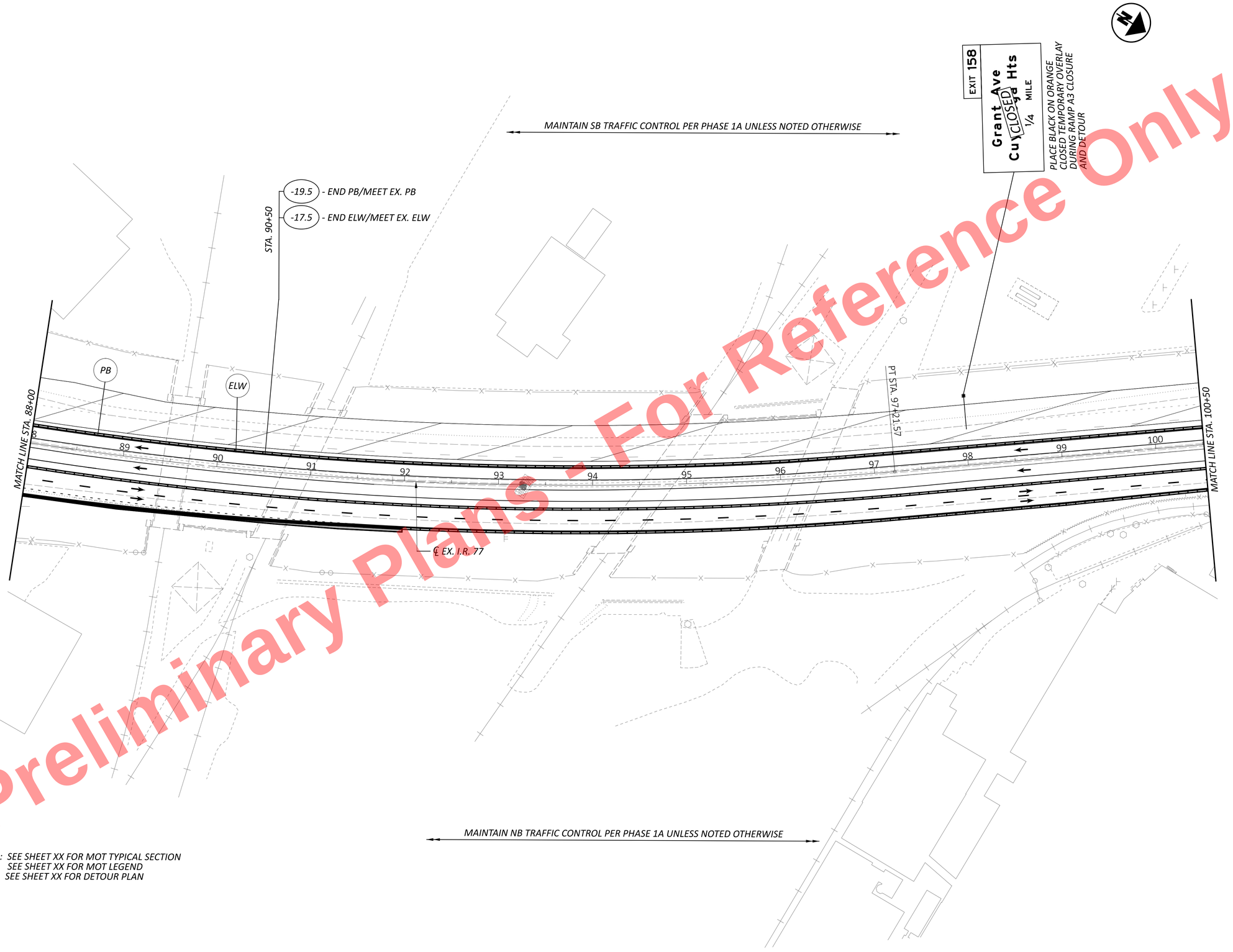



NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN

Preliminary Plans - For Reference Only

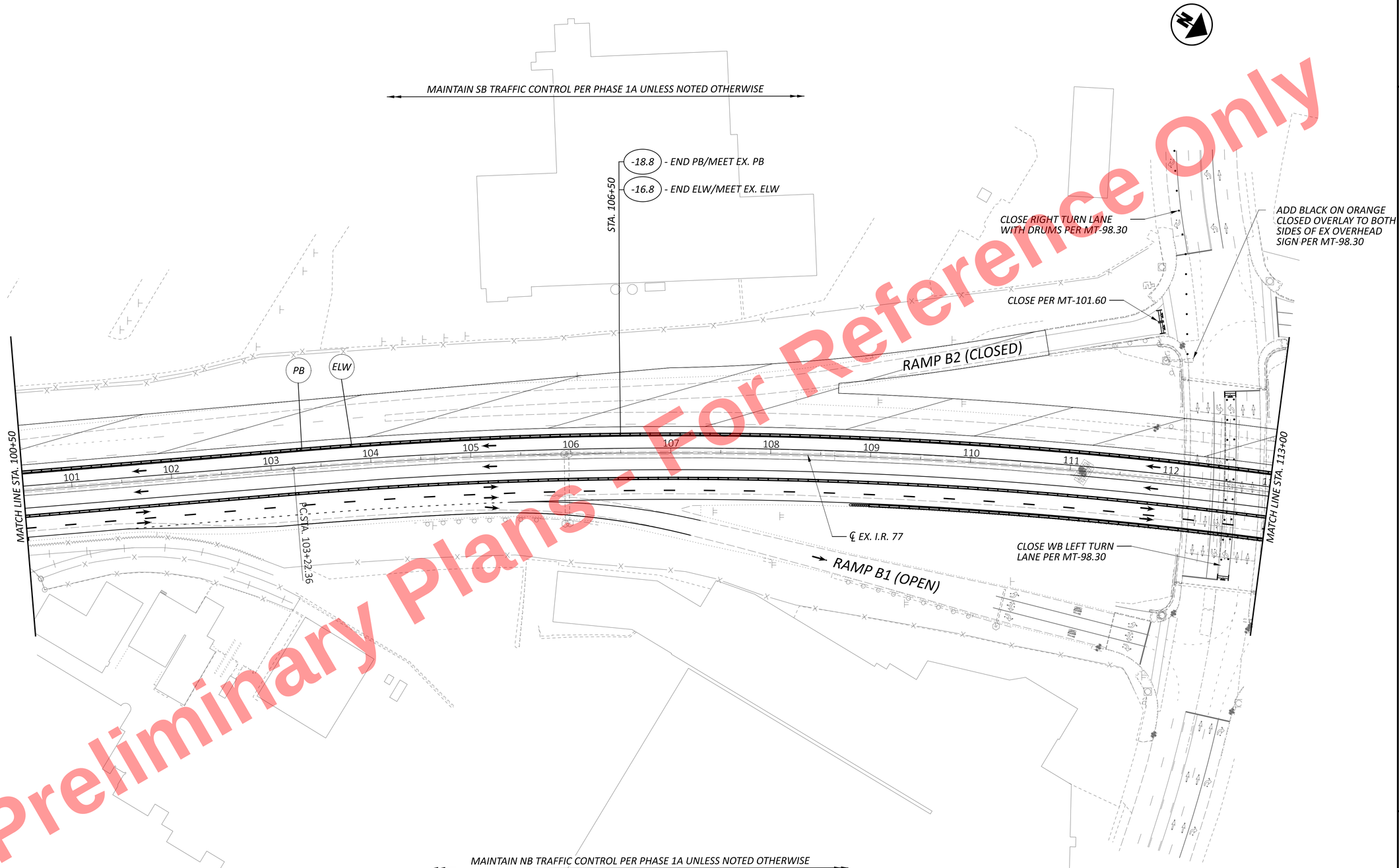
HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

| DESIGNER | REVIEWER | PROJECT ID | SHEET | TOTAL |
|---|---|---|---|---|
| CC | MTR 11/20/25 | 105743 | P.109 | P.1135 |

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
# STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.110 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:38 PM USER: kperkins
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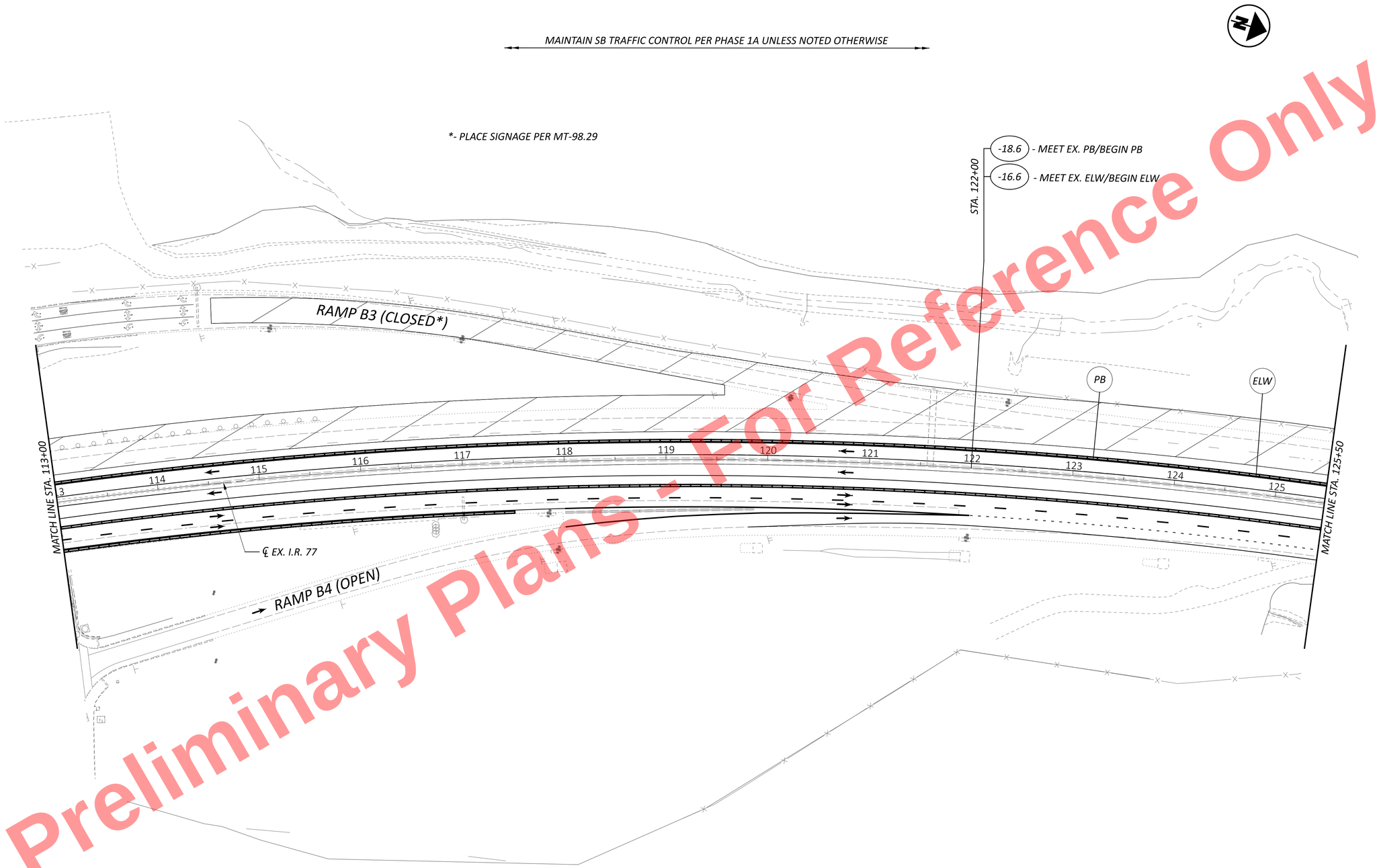


Preliminary Plans - For Reference Only

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
# STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.111 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:39 PM USER: kperkins
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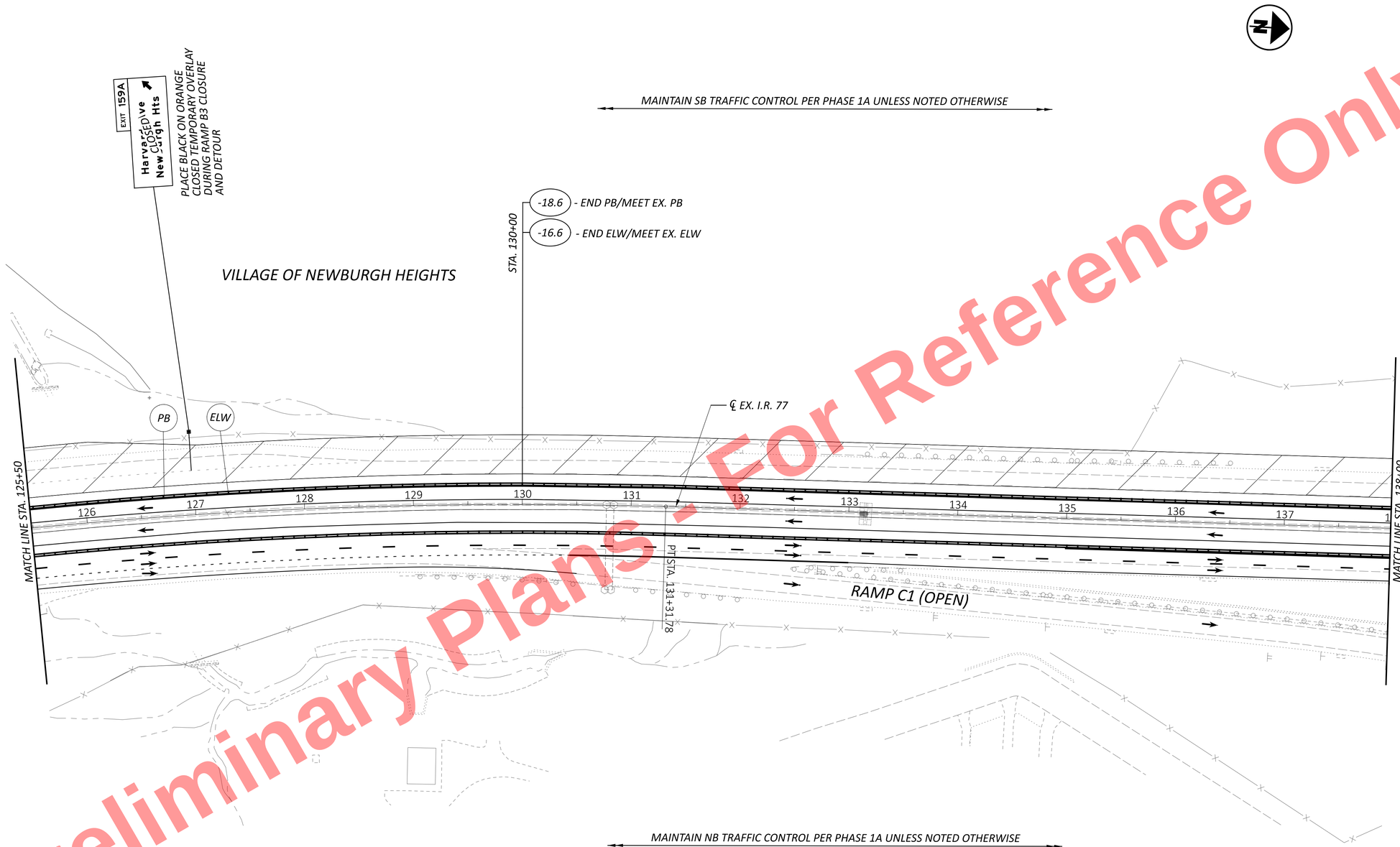


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
# STA. 125+50 TO STA. 138+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:39 PM USER: kperkins
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DESIGN AGENCY
HNTB

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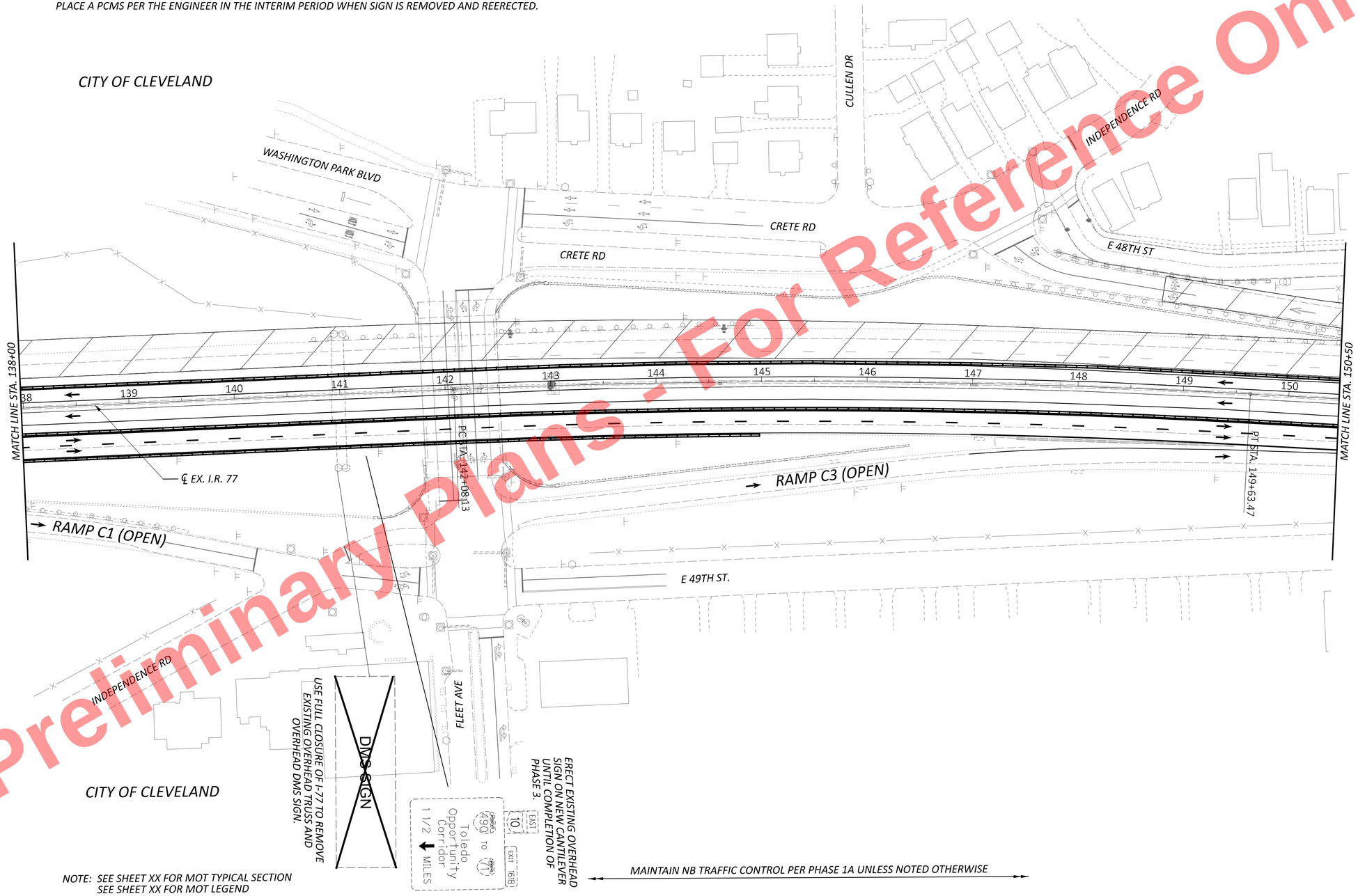
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.112 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

*MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE*

*USE FULL CLOSURE OF I-77 TO REMOVE EXISTING OVERHEAD TRUSS AND OVERHEAD DMS SIGNS AND GUIDE SIGN. STORE EXISTING GUIDE SIGN AND CONSTRUCT PERMANENT CANTILEVER SUPPORT AT STA. 141+25. REERECT EXISTING GUIDE SIGN ON PERMANENT SUPPORT. PLACE A PCMS PER THE ENGINEER IN THE INTERIM PERIOD WHEN SIGN IS REMOVED AND REERECTED.*




*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
# STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.113 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:40 PM USER: kperkins
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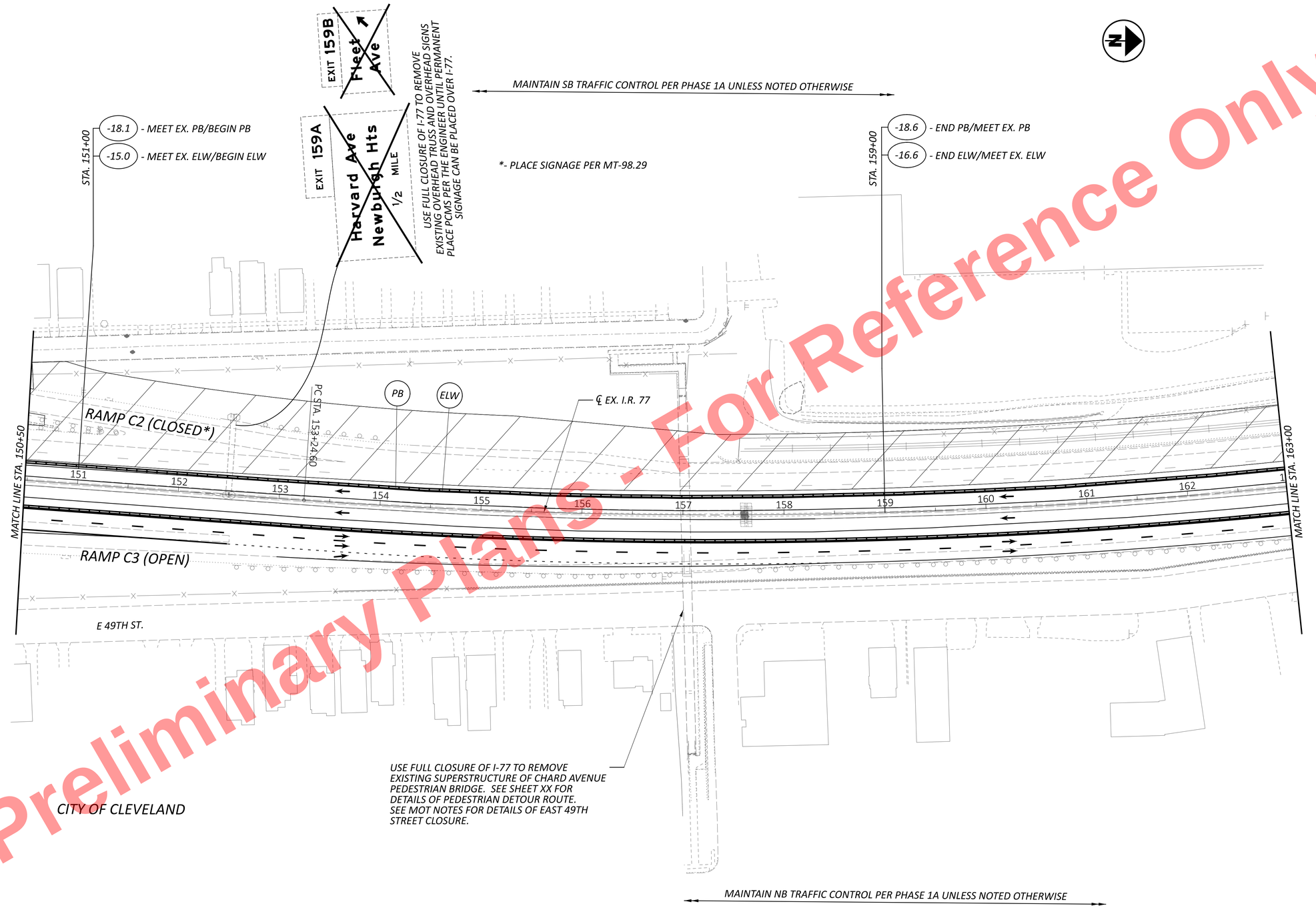


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 150+50 TO STA. 163+00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:40 PM USER: kperkins
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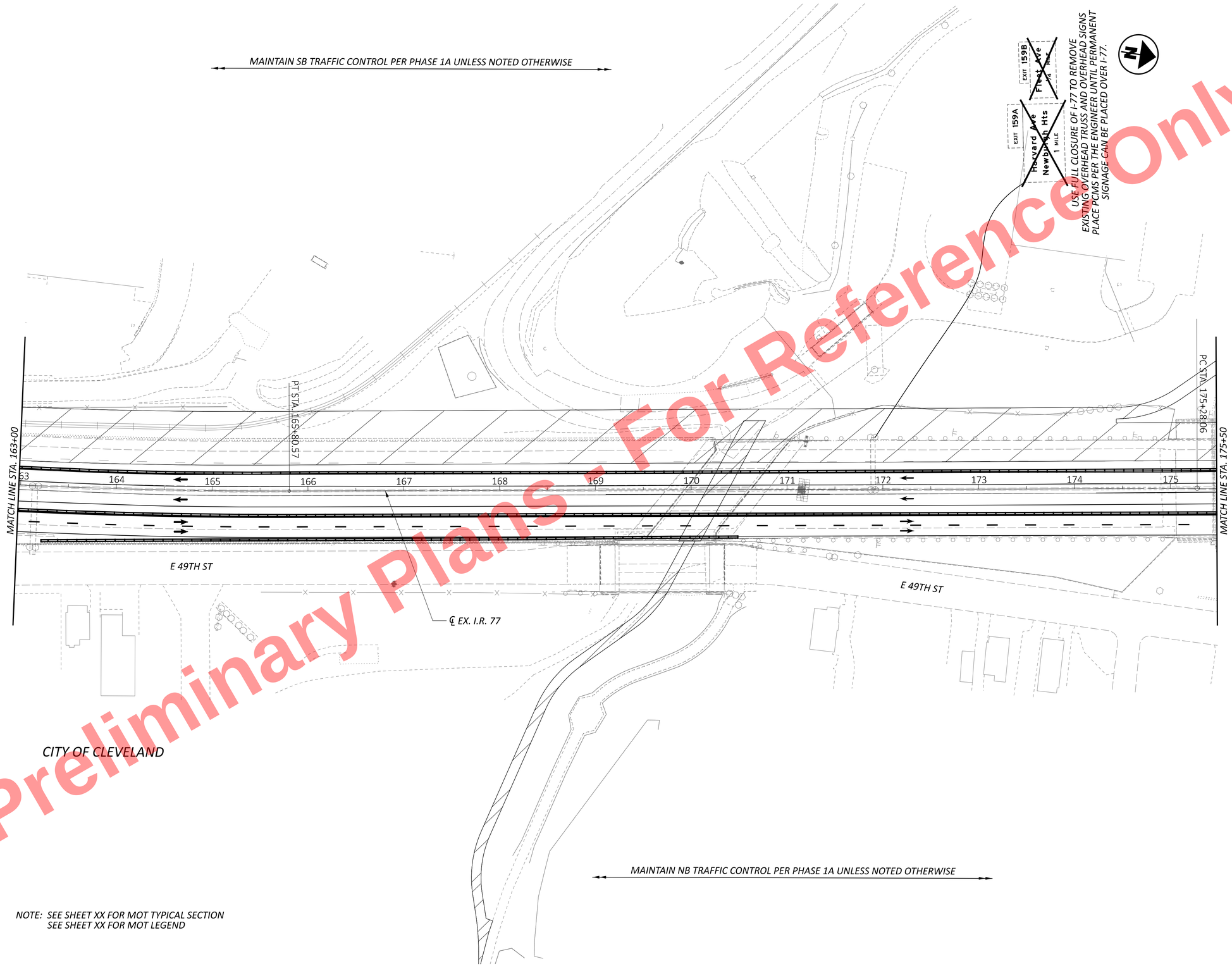
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.114 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 163+00 TO STA. 175+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:41 PM USER: kperkins
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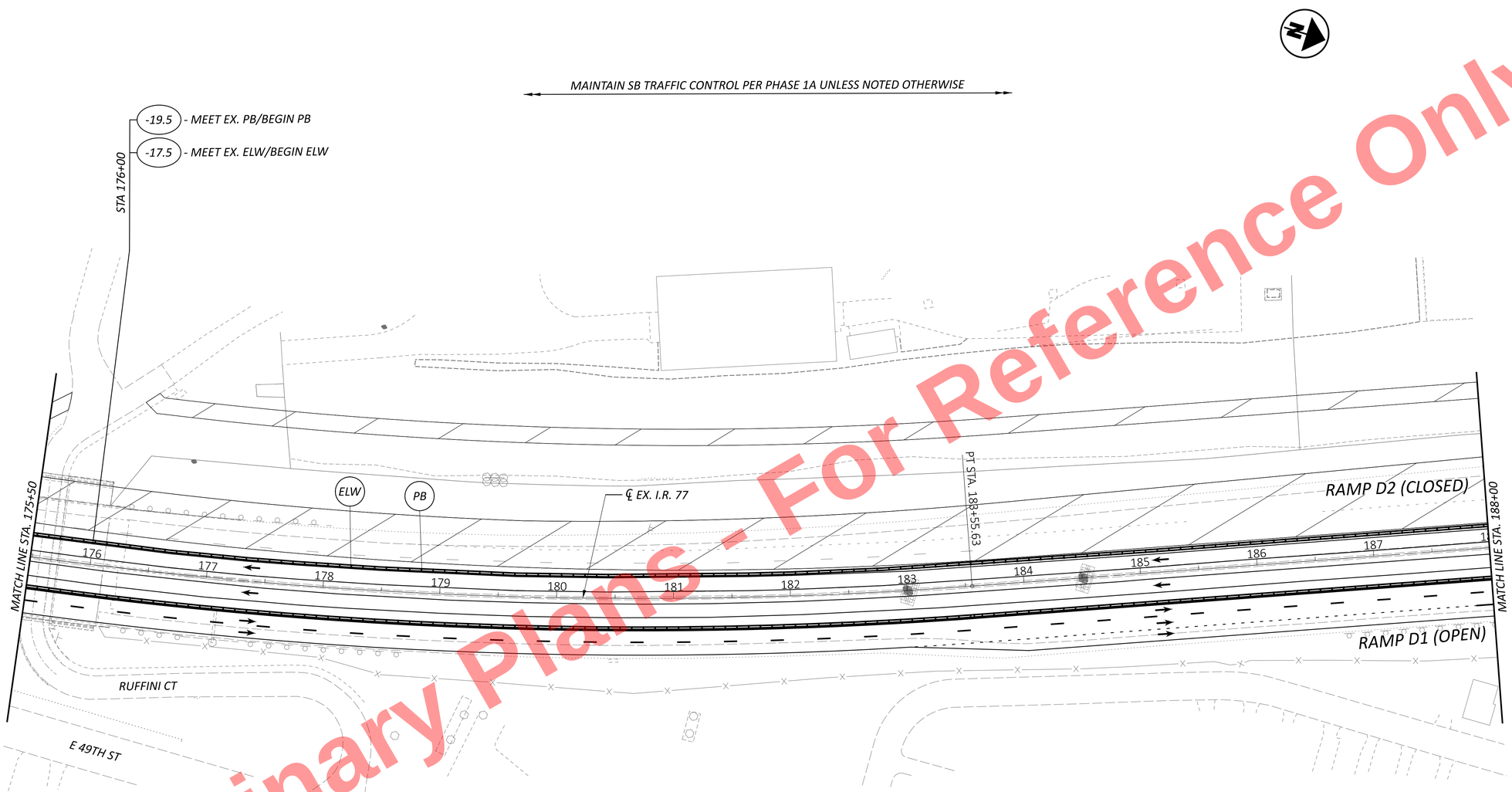
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.115 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
# STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.116 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 12 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:42 PM USER: kperkins
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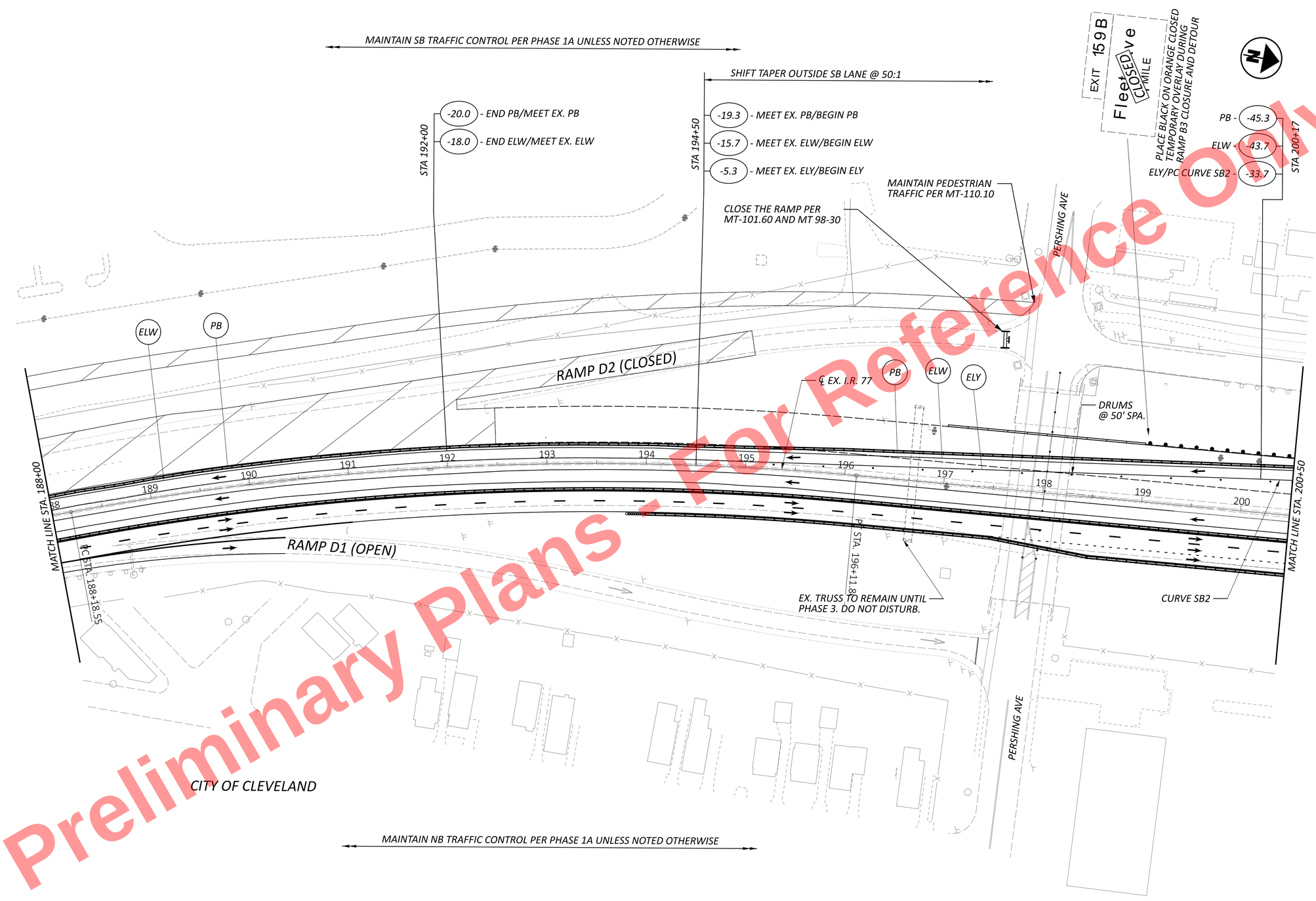
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 188+00 TO STA. 200+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.117 TOTAL P.1135

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 8:30:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: janmurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CURVE DATA - CURVE SB2
Δ = 3°18'19.7"
R = 2292.0'

-51.1 - END PB
-47.5 - ELW/BEGIN DL
-37.5 - ELY/PT CURVE SB2
-35.5 - BEGIN PB
STA. 201+50

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

WORK ZONE SPEED LIMIT YY

RELOCATE SPEED LIMIT ASSEMBLY FOR CHANGE IN TRAFFIC PATTERN.

-66.0 - ELW
-50.0 -CHW
-47.5 - END DL/BEGIN CHW
-37.5 - ELY
-35.5 - PB
STA. 210+75

N

HORIZONTAL SCALE IN FEET
0 25 50 100

BROADWAY AVE C-D ROAD

ELY
DRUMS @ 50' SPA.
IA
DL
ELW
PB
ELW
CHW

CURVE SB2

MATCH LINE STA. 200+50

201 202 203 204 205 206 207 208 209 210 211 212 213

MATCH LINE STA. 213+00

℄ EX. I.R. 77

RAMP E1 (OPEN)

E 46TH PL

CITY OF CLEVELAND

FINN AVE

BROADWAY AVE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.118 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:43 PM USER: kperkins
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MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

PLACE TRANSITION AREA DELINEATION PER MT-99.30

SHIFT TAPER OUTSIDE SB LANE @ 50:1

STA. 214+53
- -67.4 - END ELW/MEET EX. ELW
- -51.7 - END CHW/MEET EX. CHW
- -45.5 - CHW
- -35.5 - ELY
- -33.5 - PB

STA. 220+83
- -45.5 - END CHW/BEGIN ELW
- -35.5 - END ELY/BEGIN CHW
- -33.5 - PB

STA. 222+00
- -30.9 - BEGIN PB TAPER

STA. 224+00
- -21.2 - END PB

ELW
CHW
ELY
PC STA. 213+88.85
PT STA. 222+88.85
PB
ELW
IA
CHW

RAMP J5
RAMP J5 (OPEN)
RAMP J4 (OPEN)
BROADWAY AVE
BROADWAY AVE
℄ EX. I.R. 77
MATCH LINE STA. 213+00
MATCH LINE STA. 225+50
213
214
215
216
217
218
219
220
221
222
223
224
225

CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 213+00 TO STA. 225+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 8:34:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: janmurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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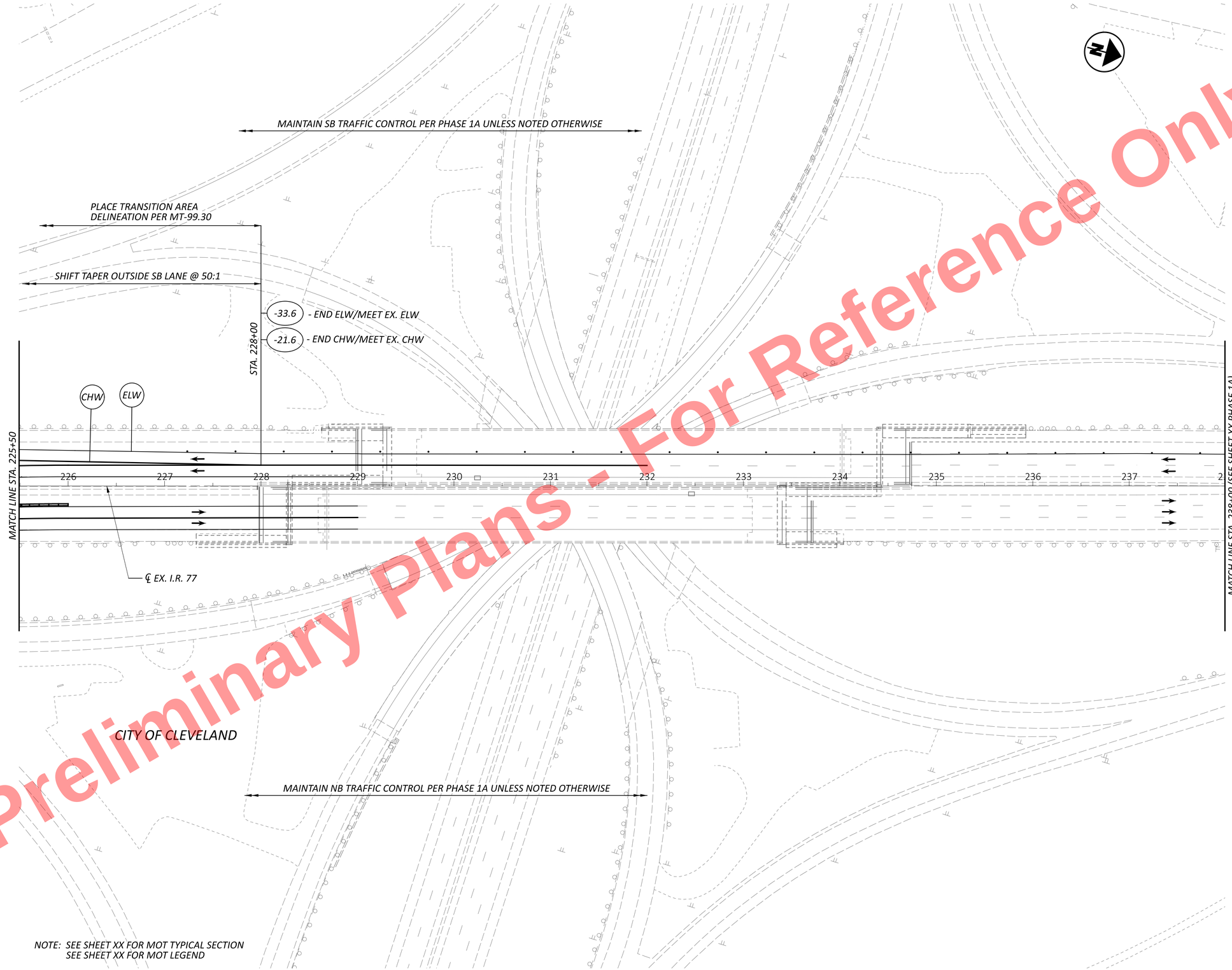
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.119 |
| TOTAL | P.1135 |




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.120 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:44 PM USER: kperkins
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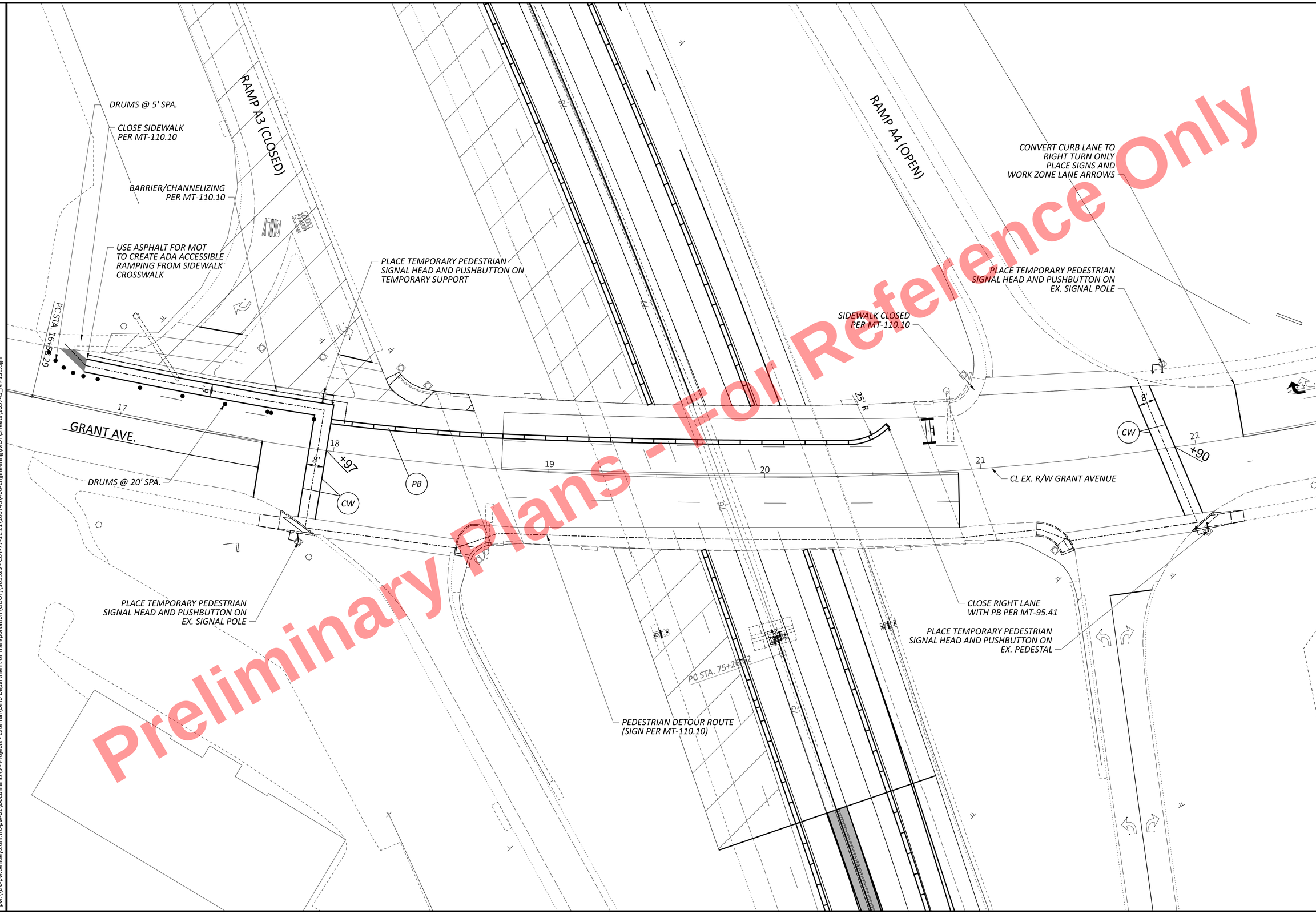


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1B
## GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.121 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: Untitled-4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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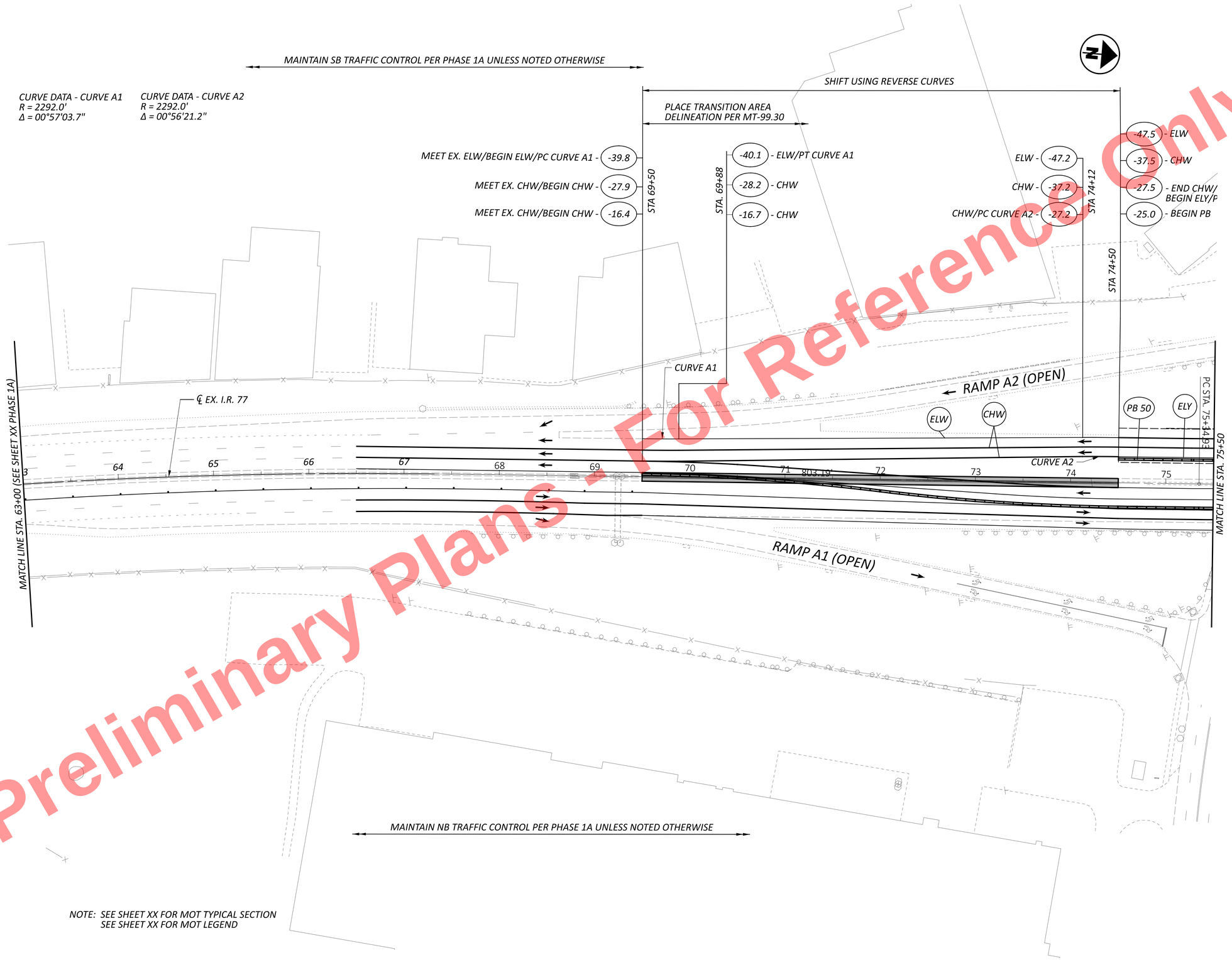


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 63+00 TO STA. 75+50

CUY-77-11.21

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:57 PM USER: kperkins
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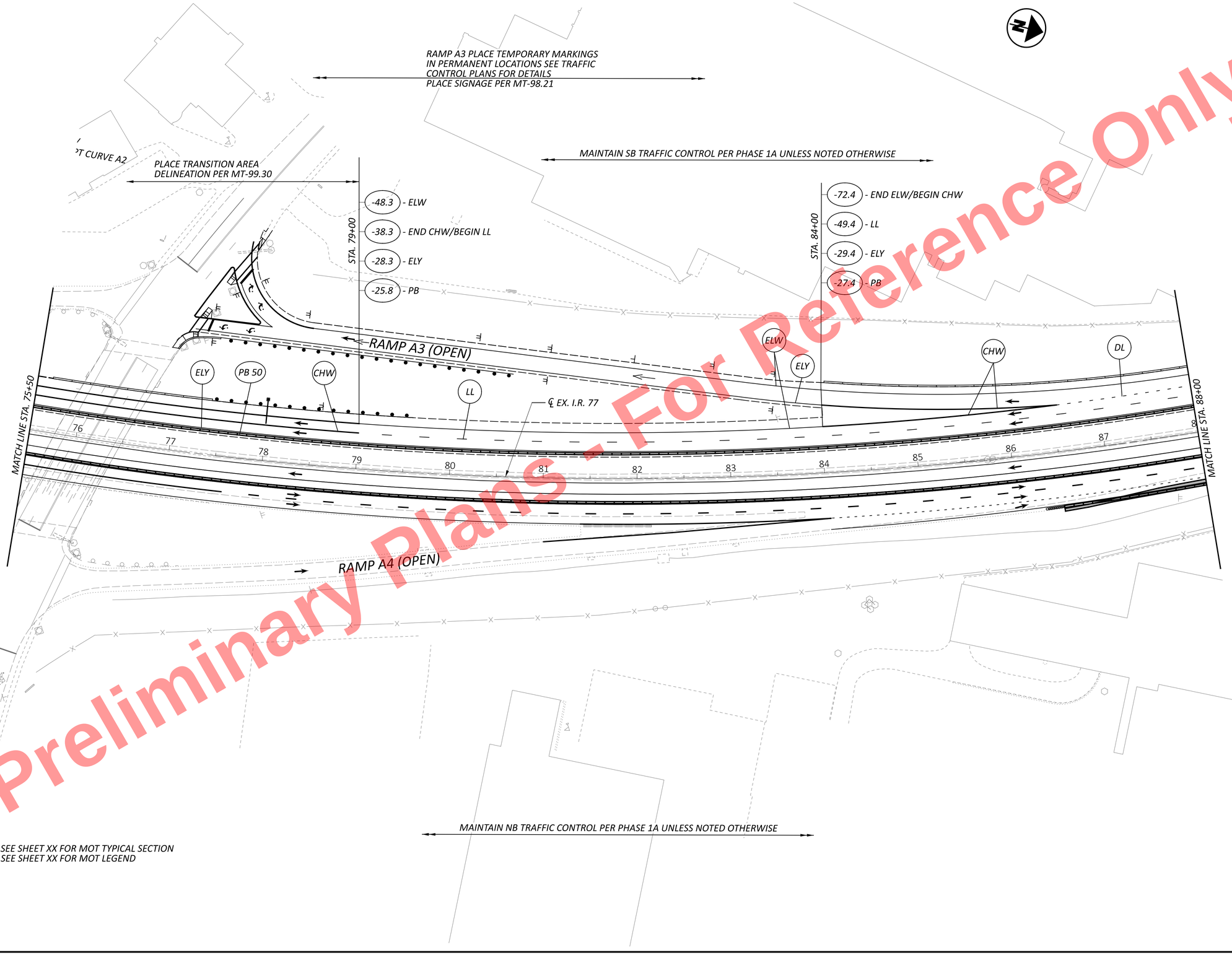
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR MM-DD-YY |
| PROJECT ID | 105743 |
| SHEET | P.129 |
| TOTAL | 0 |




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.123 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:58 PM USER: kperkins
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RAMP A3 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.21

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

RAMP B2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS

PLACE TRANSITION AREA DELINEATION PER MT-99.30

STA. 88+37
-50.3 - ELW/END DL
-40.3 - LL
-30.3 - ELY
-28.0 - PB 50

STA. 93+55
-51.3 - ELW/BEGIN DL
-41.3 - LL
-31.3 - ELY
-28.8 - PB 50

STA. 98+00
-52.0 - DL
-42.0 - END LL/BEGIN CHW
-32.0 - ELY
-29.5 - PB 50

RELOCATE SPEED LIMIT ASSEMBLY FOR CHANGE IN TRAFFIC PATTERN. (STA. 99+00)

WORK ZONE SPEED LIMIT

ELW ELY PB 50 LL DL CHW

℄ EX. I.R. 77

PT STA. 97+11.57

MATCH LINE STA. 88+00

MATCH LINE STA. 100+50

89 90 91 92 93 94 95 96 97 98 99 100

600.78'

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.124 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:59 PM USER: kperkins
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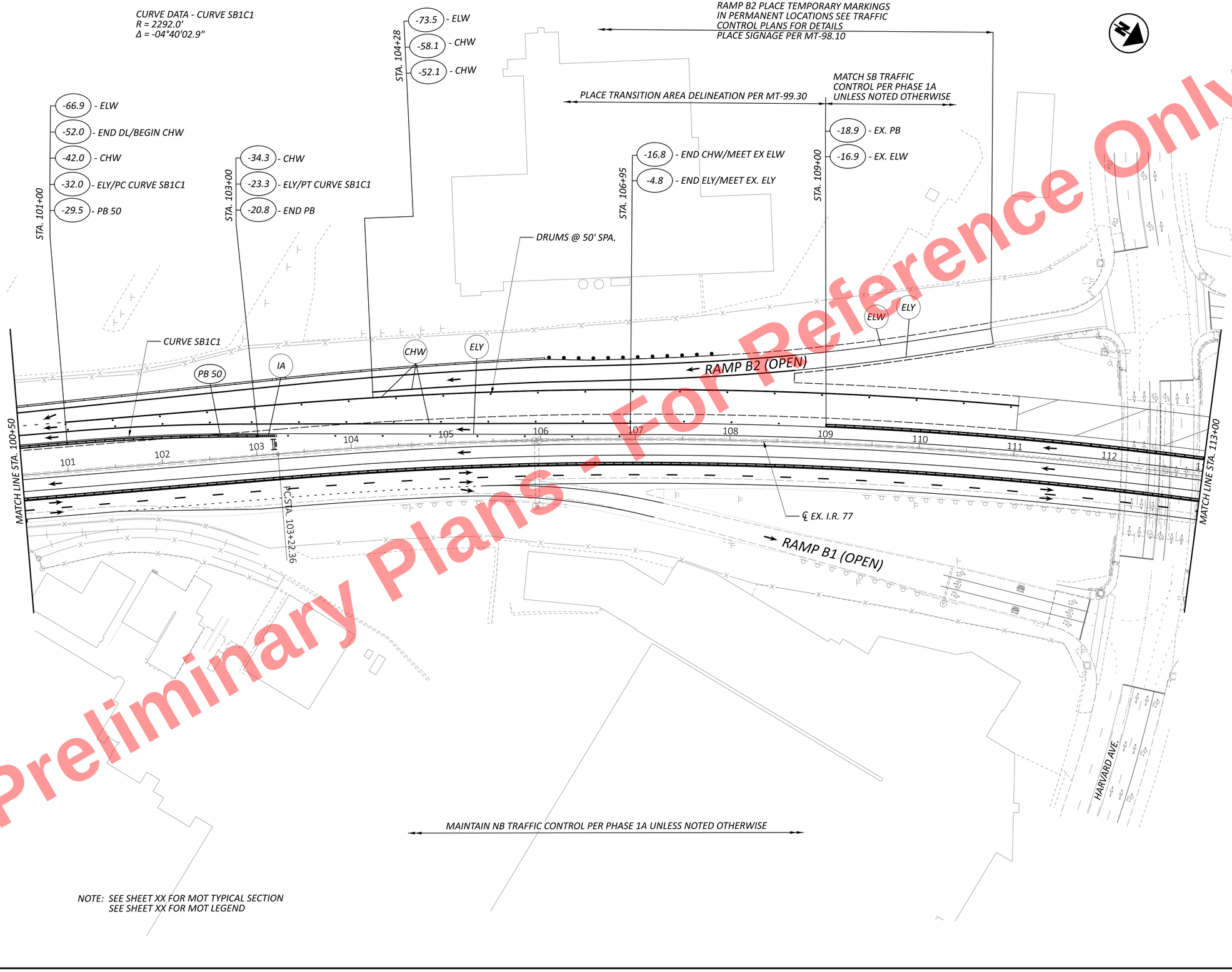


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
# STA. 100+50 TO STA. 113+00

CUY-77-11.43 - PART 1

MODEL: CLP_i077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:09:59 PM USER: kperkins
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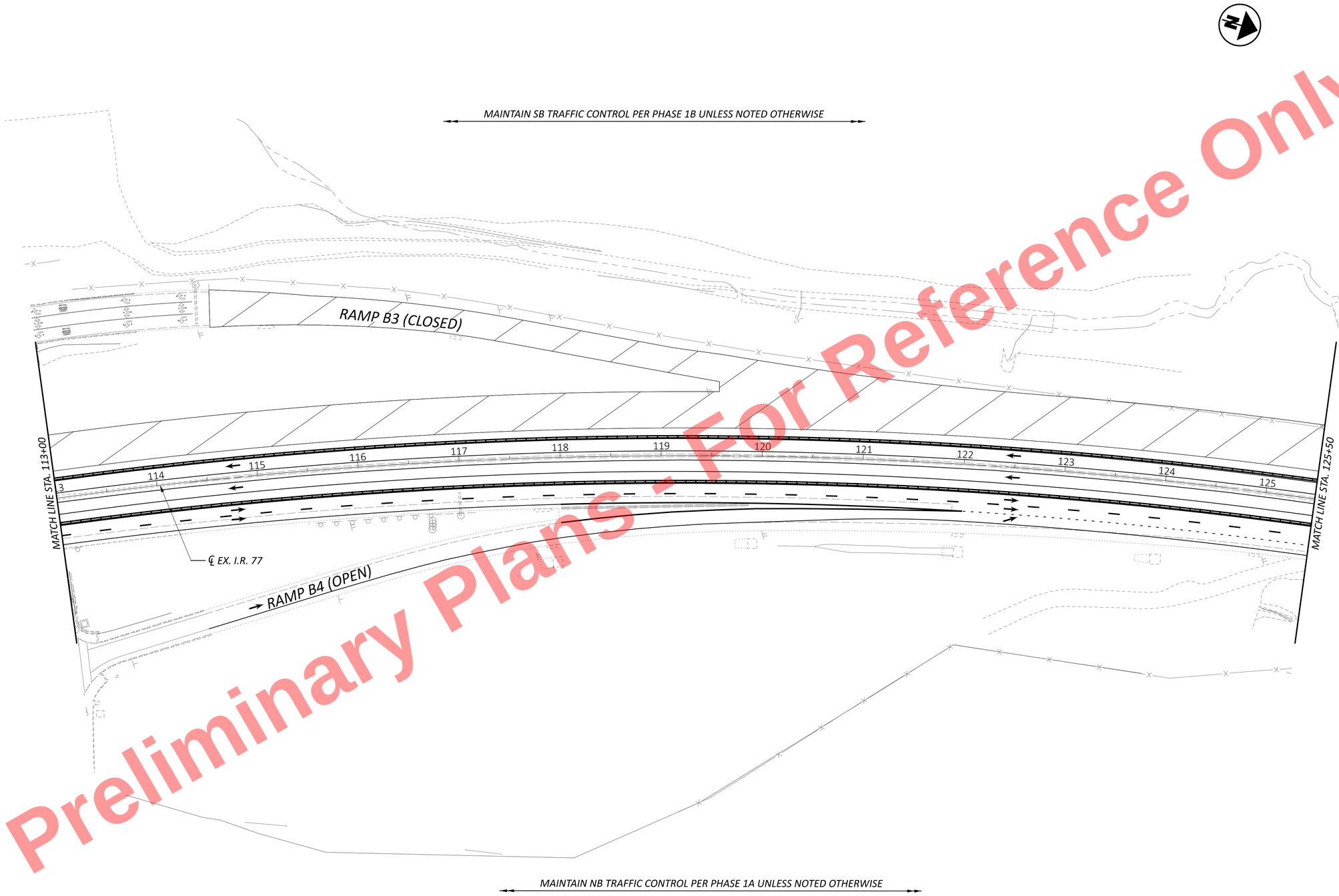
DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.125 TOTAL P.1135




Preliminary Plans - For Reference Only

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.126 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:10:00 PM USER: kperkins
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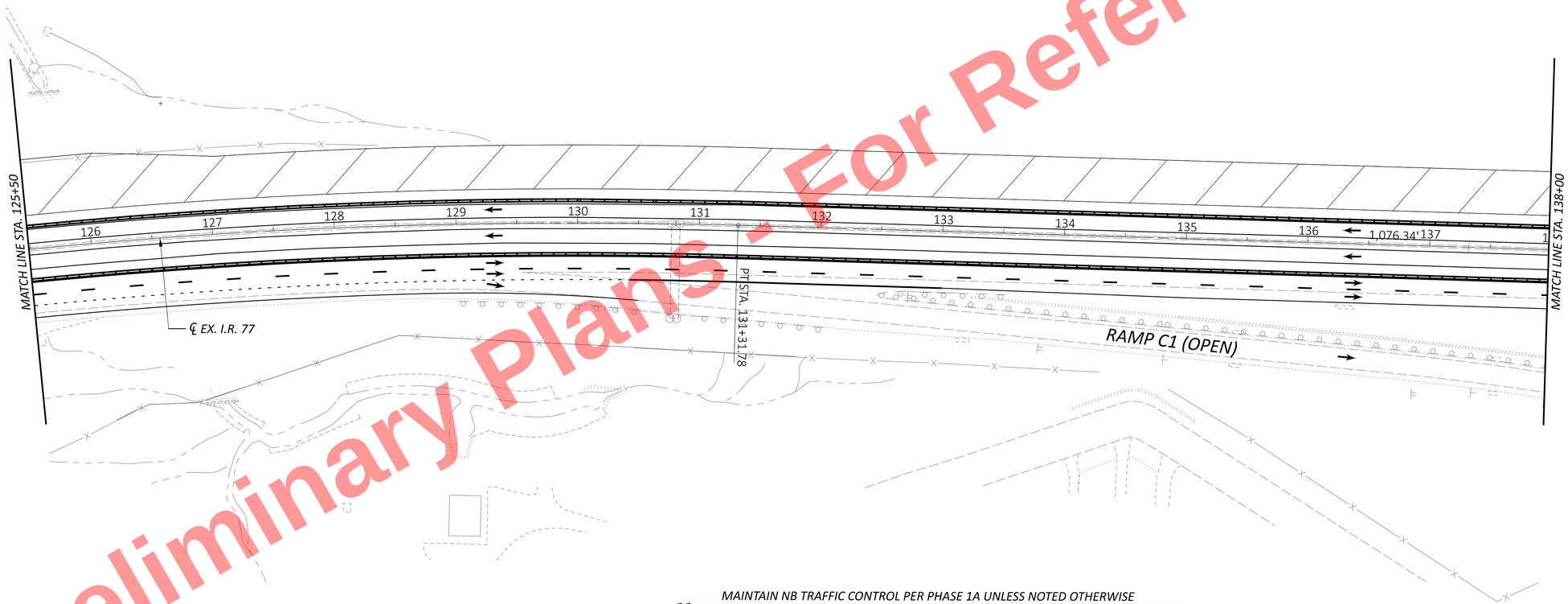
Preliminary Plans - For Reference Only

VILLAGE OF NEWBURGH HEIGHTS

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE




MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.127 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:10:00 PM USER: kperkins
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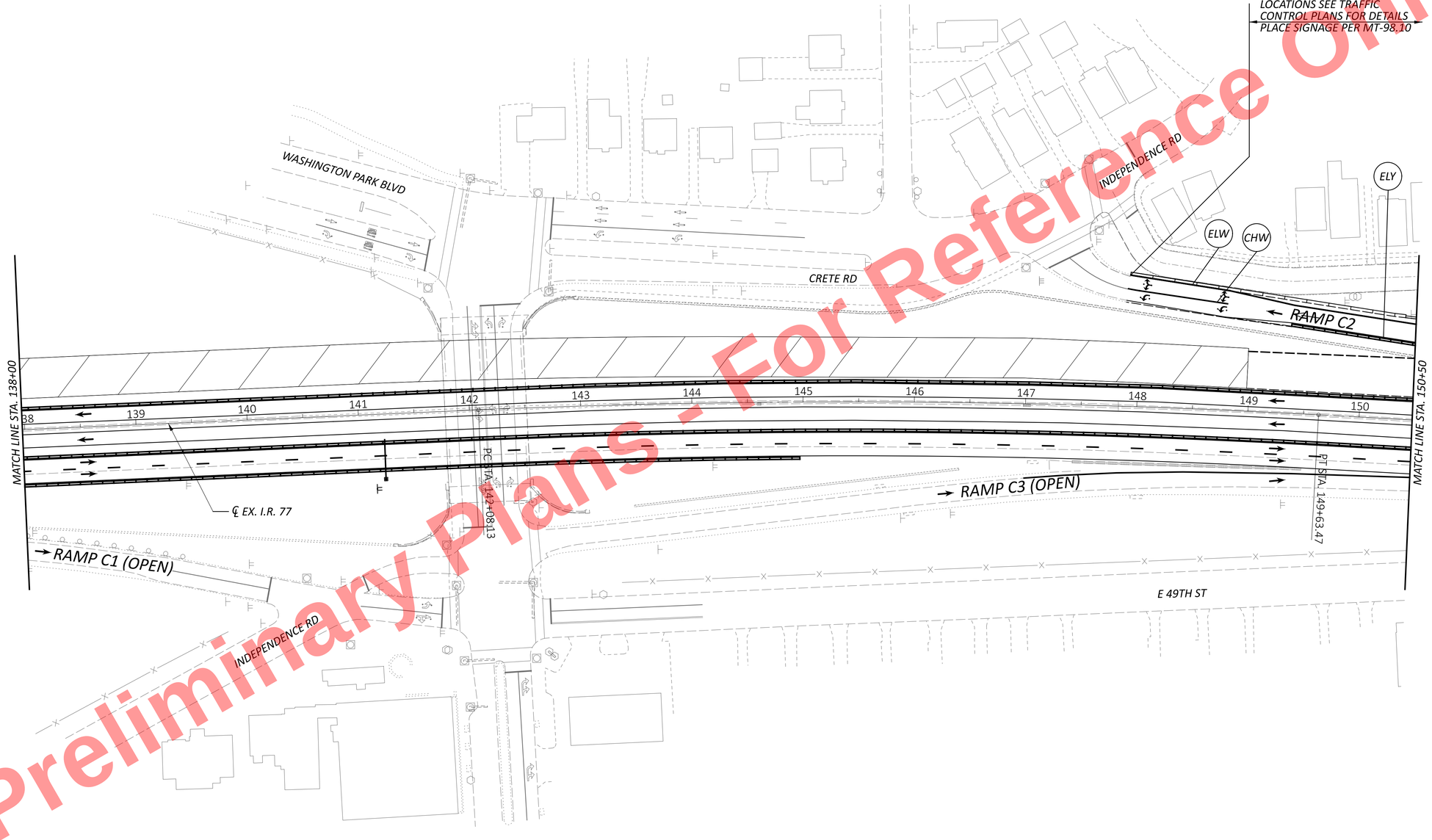
CITY OF CLEVELAND

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE

RAMP B2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10




CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

For Reference Only
Preliminary Plans - For

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
# STA. 138+00 TO STA. 150+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:10:01 PM USER: kperkins
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DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.128 |
| TOTAL | P.1135 |

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:10:01 PM USER: kperkins
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MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE
PLACE SIGNAGE PER MT-98.21

RAMP C2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS UNLESS NOTED OTHERWISE

STA. 153+25
-48.9 - ELY
-46.9 - PB

STA. 157+34
-49.7 - ELW
-39.7 - ELY
-37.7 - PB

STA. 161+95
-51.1 - ELW
-41.1 - END ELY/BEGIN CHW
-39.1 - PB
-18.6 - MEET EX. PB /BEGIN PB TAPER

STA. 162+45
-18.6

ELY
ELW
CHW
ELY
PB
℄ EX. I.R. 77
PB
IA
CHW

RAMP C2 (OPEN)

PC STA. 153+60

MATCH LINE STA. 150+50

151 361.13' 152 153 154 155 156 157 158 159 160 161 162

MATCH LINE STA. 163+00

E 49TH ST

E 49TH ST

CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.129 TOTAL P.1135

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

PLACE SIGNAGE PER MT-98.21

STA. 161+97
-50.4 - BEGIN PB
-48.4 - ELW

STA. 165+18
-45.5 - PB
-43.5 - ELW
-16.5 - END CHW/BEGIN DL

STA. 169+50
-19.9 - END PB/MEET EX. PB
-17.9 - END DL/END ELW/MEET EXISTING ELW

CHW
DL
PB
ELW

PT STA. 165+80.47

PC STA. 175+28.06

MATCH LINE STA. 163+00

163 164 165 166 167 168 169 170 171 172 173 174 175

947.49

MATCH LINE STA. 175+50

E 49TH ST

℄ EX. I.R. 77

E 49TH ST

CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
## STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.130 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:10:02 PM USER: kperkins
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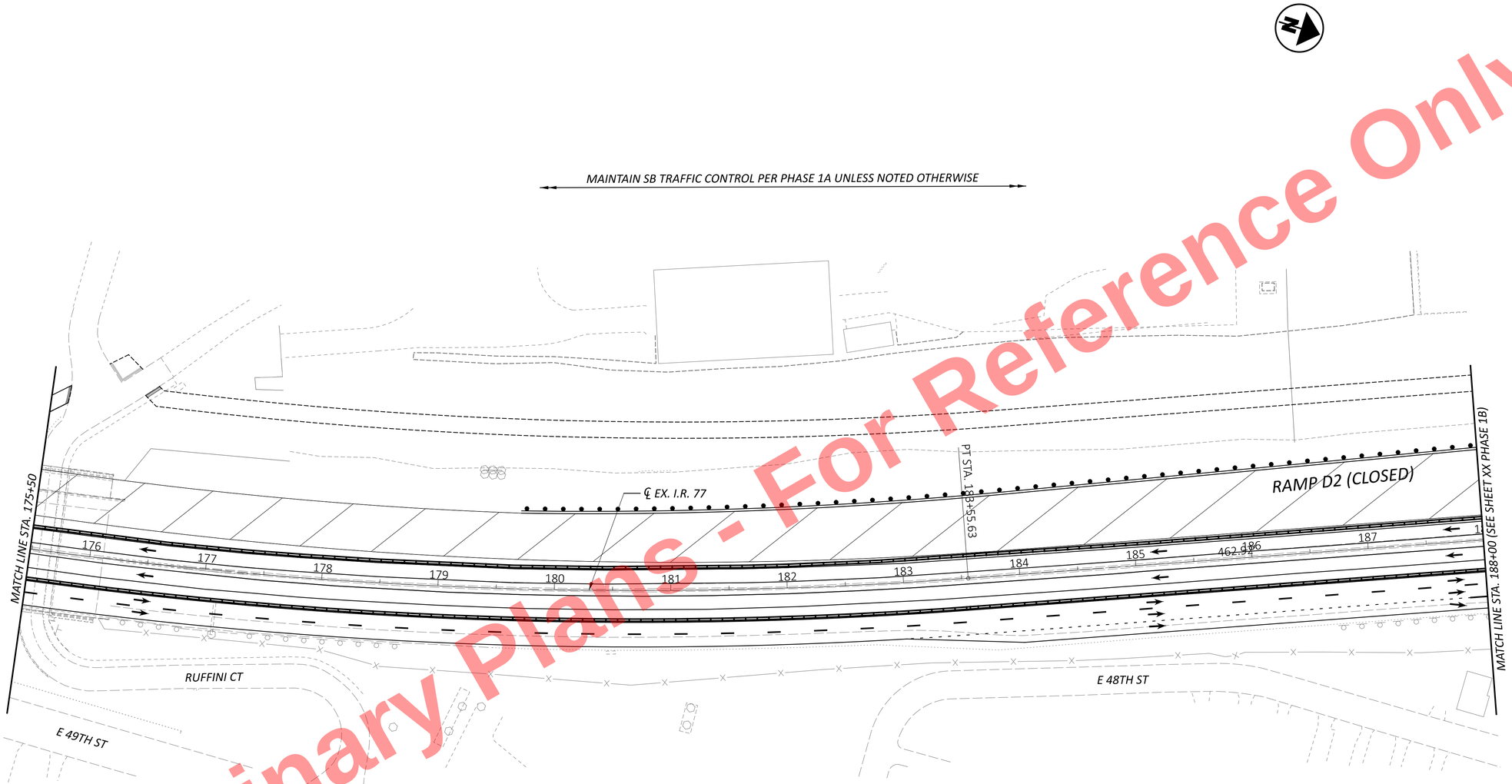
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 1C
# STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CC |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.131 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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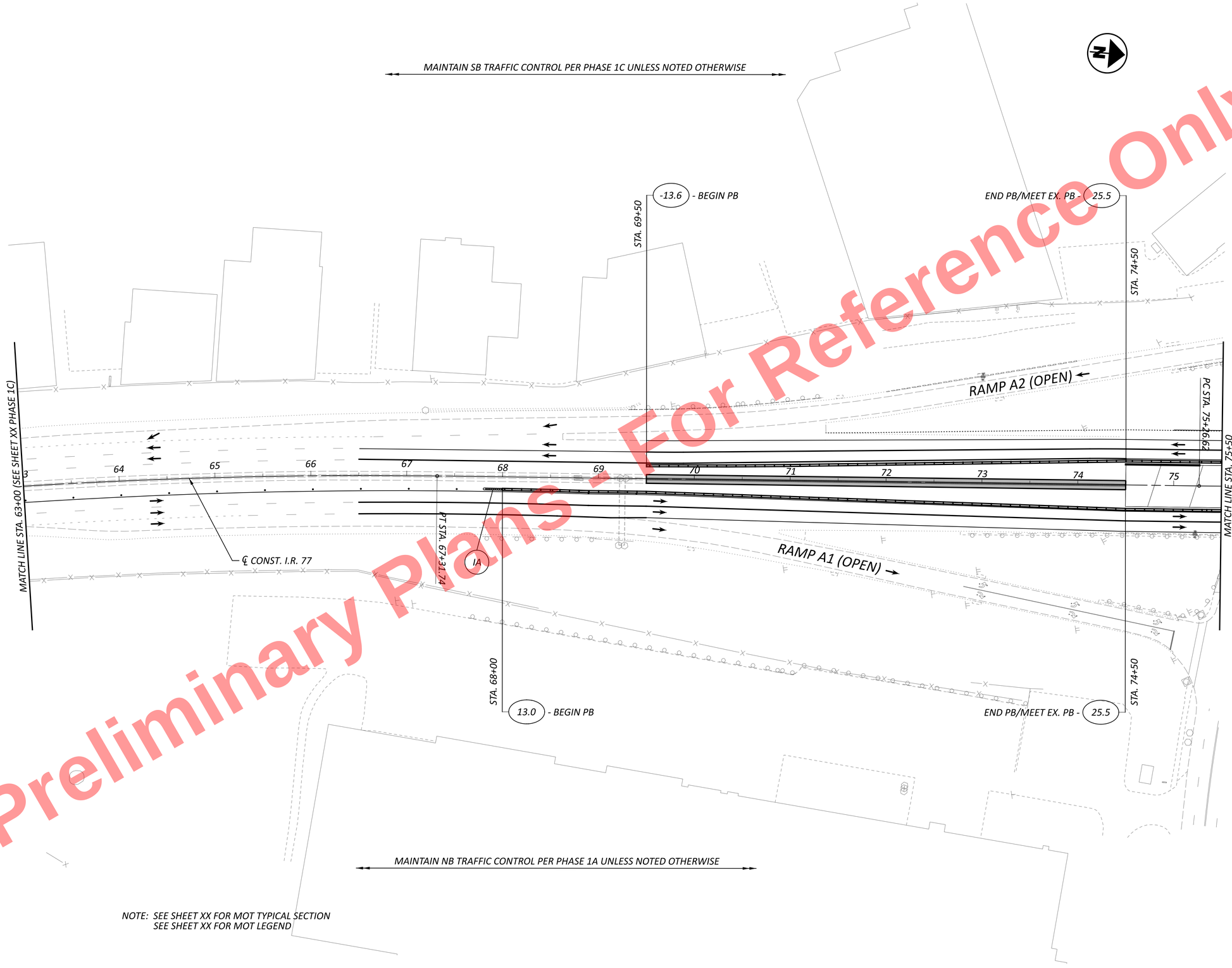


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 63+00 TO STA. 75+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:12 PM USER: janmurray
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DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.132 TOTAL P.1135

CUYAHOGA HEIGHTS

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1C UNLESS NOTED OTHERWISE

UTILIZE FULL CLOSURE OF 77 SOUTHBOUND TO CONSTRUCT NEW PERMANENT TRUSS PER THE TRAFFIC CONTROL PLANS.

GRANT AVE

RAMP A2

RAMP A3 (OPEN)

MATCH LINE STA. 75+50

MATCH LINE STA. 88+00

76 77 78 79 80 81 82 83 84 85 86 87

℄ CONST. I.R. 77

RAMP A4 (OPEN)

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
# STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.133 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:18 PM USER: janmurray
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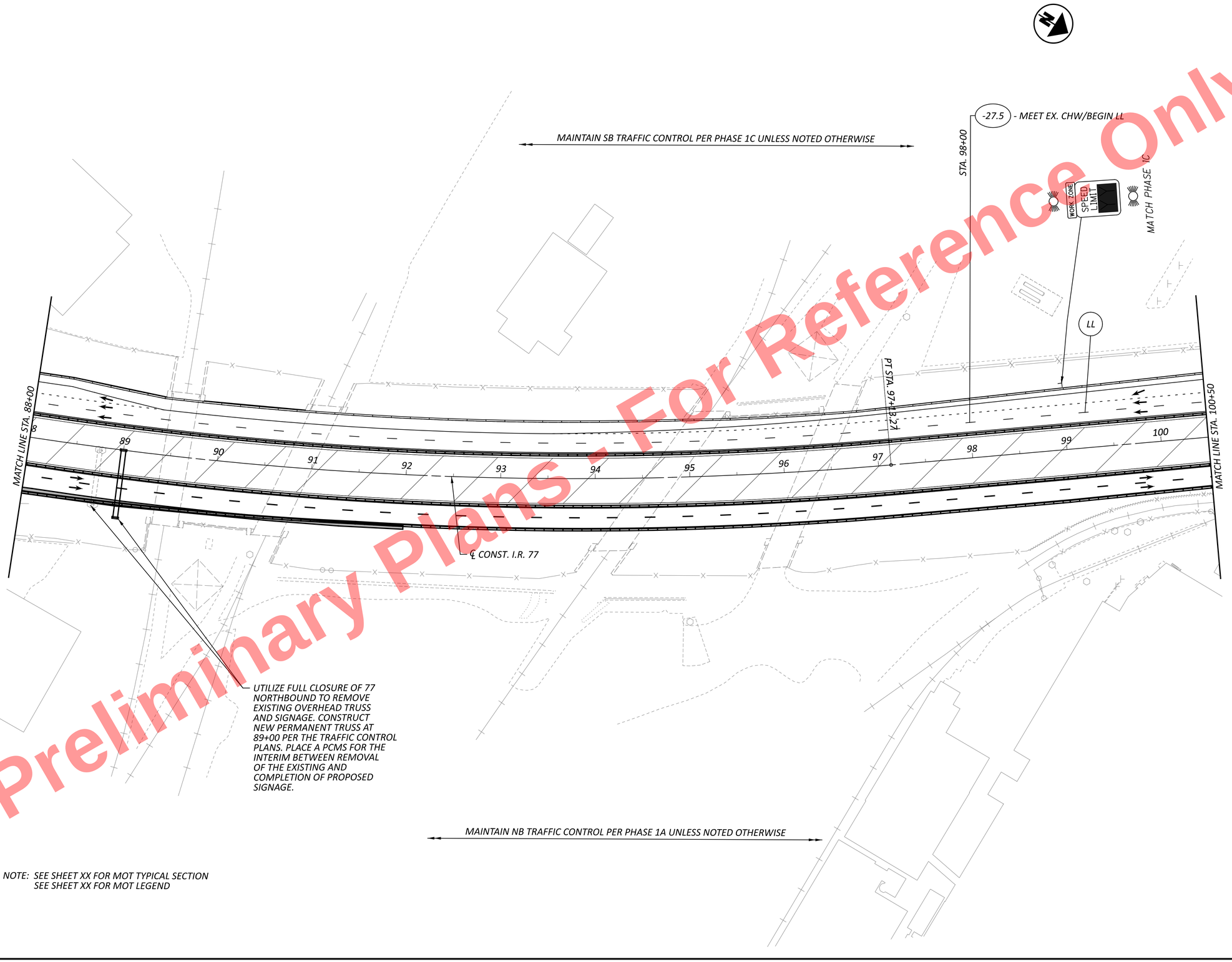
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
# STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.134 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:18 PM USER: janmurray
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MAINTAIN NB TRAFFIC CONTROL PER PHASE 1C UNLESS NOTED OTHERWISE

STA. 101+00
-47.5 - MEET EX. DL/BEGIN DL
-37.5 - LL
-27.5 - MEET EX. ELY/BEGIN ELY
-25.0 - MEET EX. PB/BEGIN PB50

STA. 104+25
-47.5 - END DL/MEET EX CHW

STA. 108+65
-47.5 - END CHW/BEGIN ELW
-37.5 - LL
-27.5 - ELY
-25.0 - PB50

DL
LL
PB 50
ELY
CHW
ELW

RAMP B2 (OPEN)

MATCH LINE STA. 100+50

101 102 103 104 105 106 107 108 109 110 111 112

MATCH LINE STA. 113+00

Pt STA. 103+25.93

℄ CONST. I.R. 77

RAMP B1 (OPEN)

UTILIZE FULL CLOSURE OF 77 NORTHBOUND TO REMOVE EXISTING OVERHEAD TRUSS AND SIGNAGE. CONSTRUCT NEW PERMANENT TRUSS AT 104+00 PER THE TRAFFIC CONTROL PLANS. PLACE A PCMS FOR THE INTERIM BETWEEN REMOVAL OF THE EXISTING AND COMPLETION OF PROPOSED SIGNAGE.

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.135 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:19 PM USER: janmurray
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RAMP B3 PLACE TEMPORARY MARKINGS
IN PERMANENT LOCATIONS SEE TRAFFIC
CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10

N

HORIZONTAL
SCALE IN FEET
0 25 50 100

-47.5 - END ELW/BEGIN CHW
-37.5 - LL
-27.5 - ELY
-25.0 - PB50
STA. 119+58

-47.5 - END CHW/BEGIN DL
-37.5 - LL
-27.5 - ELY
-25.0 - PB50
STA. 121+58

RAMP B3 (OPEN)

PB 50 ELY LL ELW ℄ CONST. I.R. 77 ELY CHW DL ELW

MATCH LINE STA. 113+00

113 114 115 116 117 118 119 120 121 122 123 124 125

MATCH LINE STA. 125+50

RAMP B4 (OPEN)

IA

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

# MAINTENANCE OF TRAFFIC - PHASE 2
# STA. 113+00 TO STA. 125+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:42:04 PM USER: janmurray
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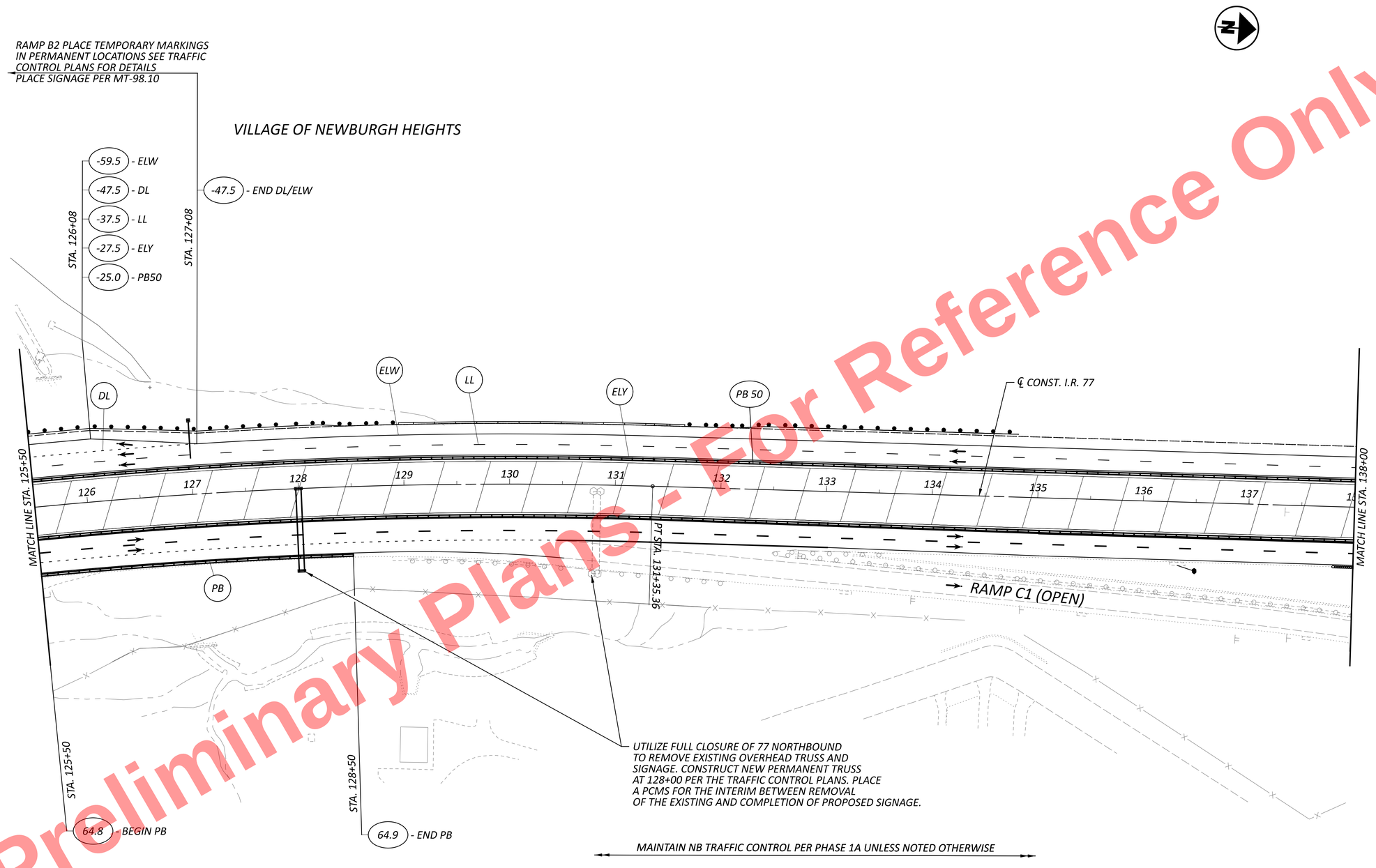
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.136 TOTAL P.1135




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 125+50 TO STA. 138+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.137 TOTAL P.1135

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:20 PM USER: janmurray
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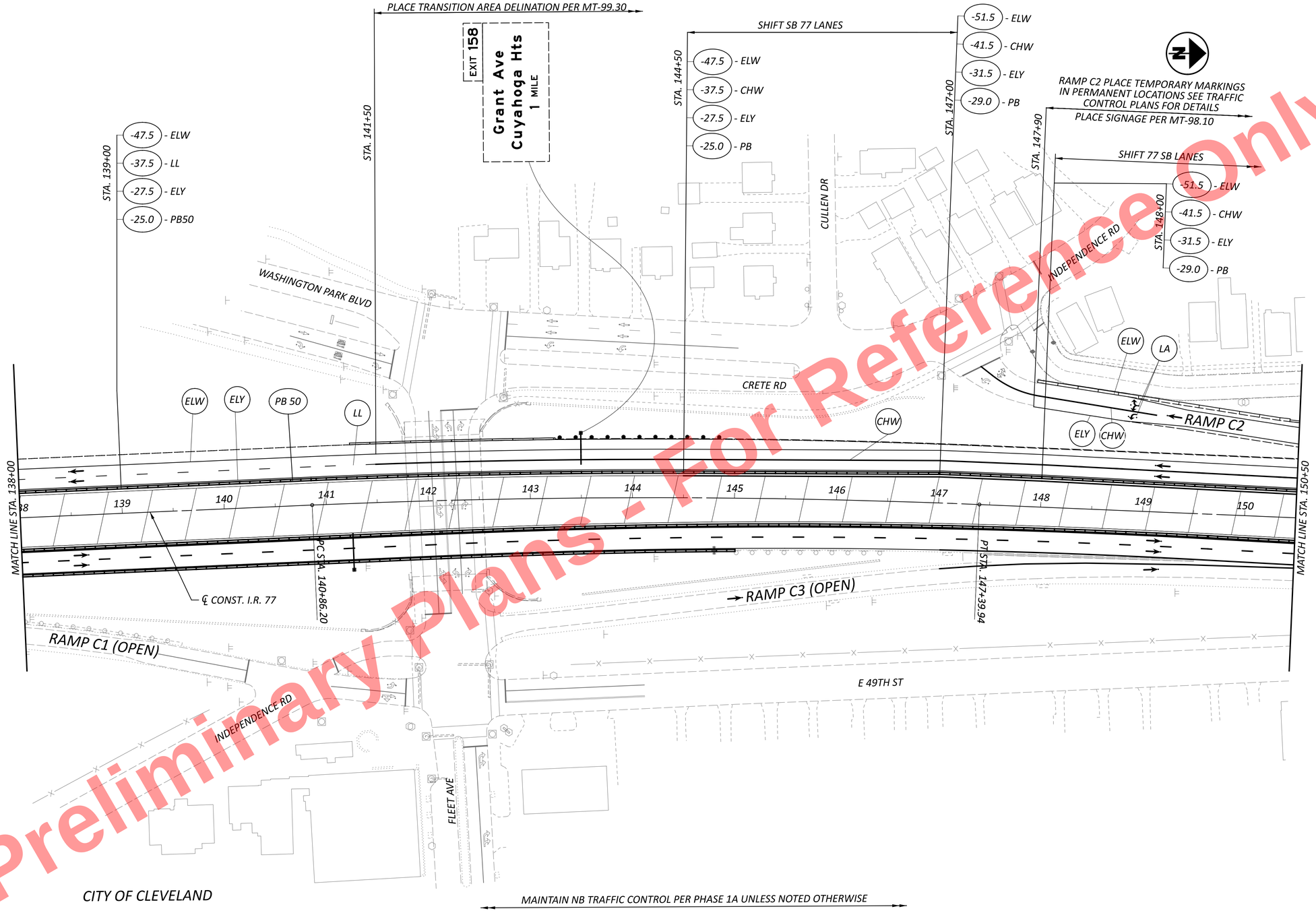


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 138+00 TO STA. 150+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.138 TOTAL P.1135

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:21 PM USER: janmurray
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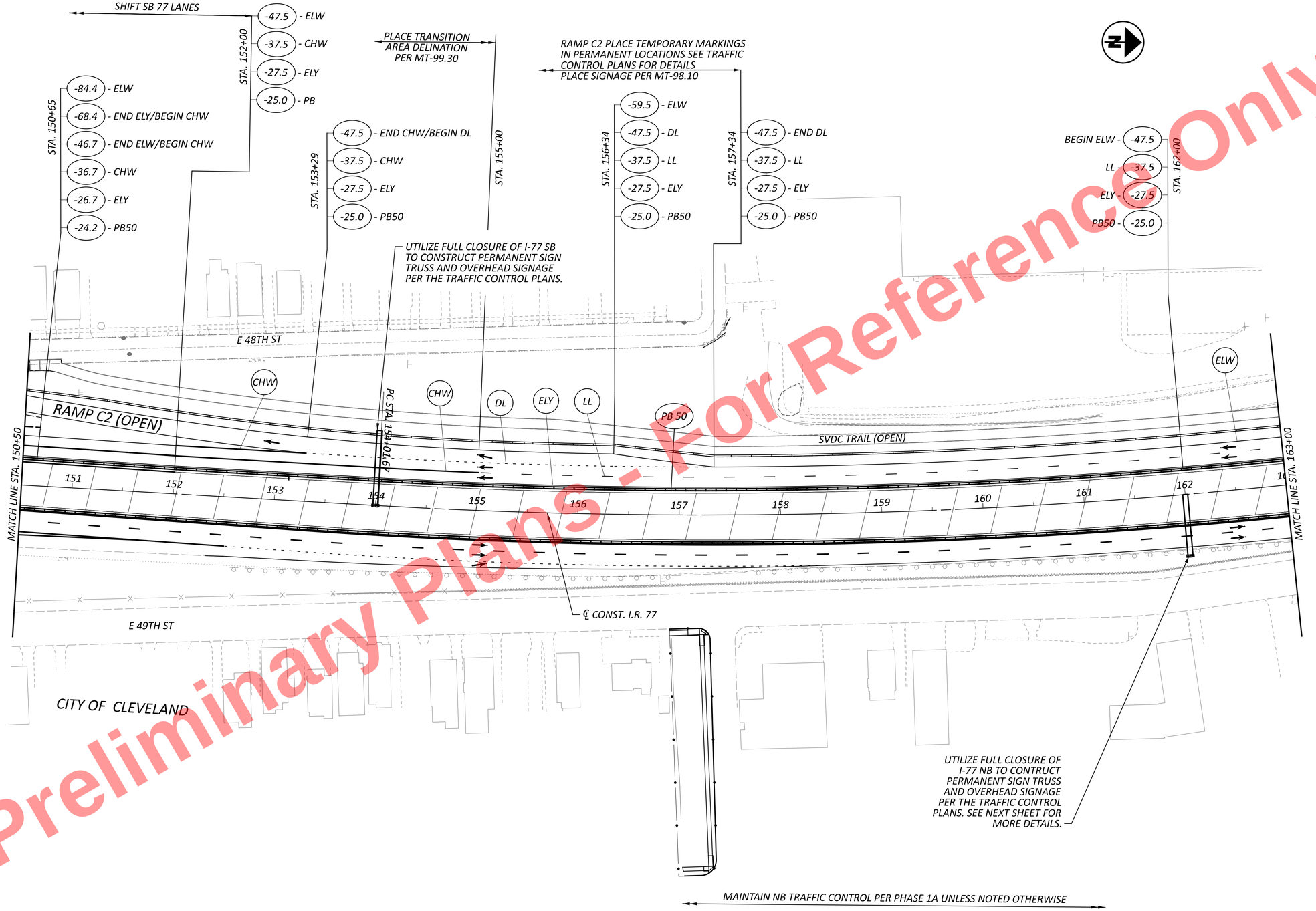


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - Not for Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.139 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:21 PM USER: janmurray
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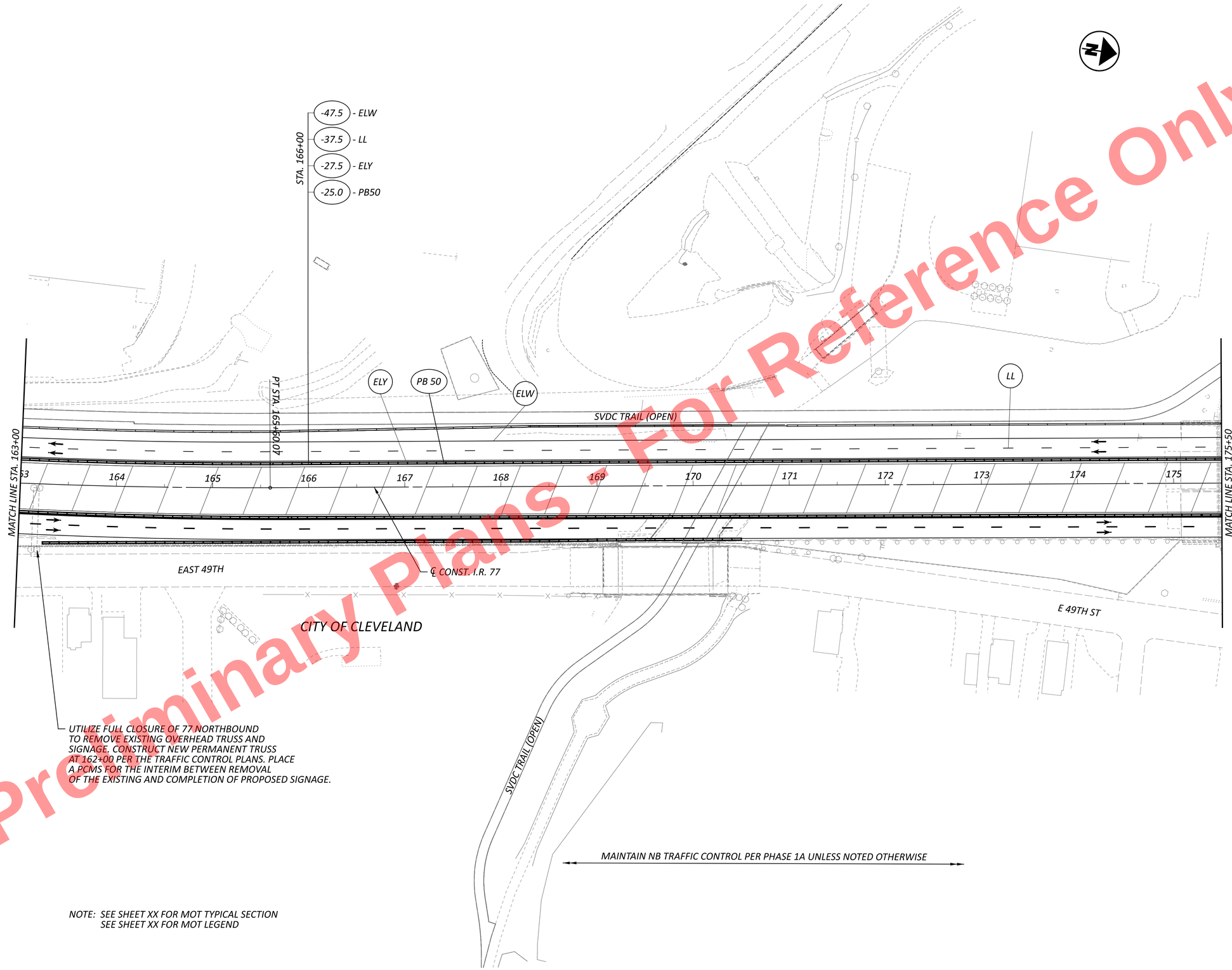


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 163+00 TO STA. 175+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:42:11 PM USER: janmurray
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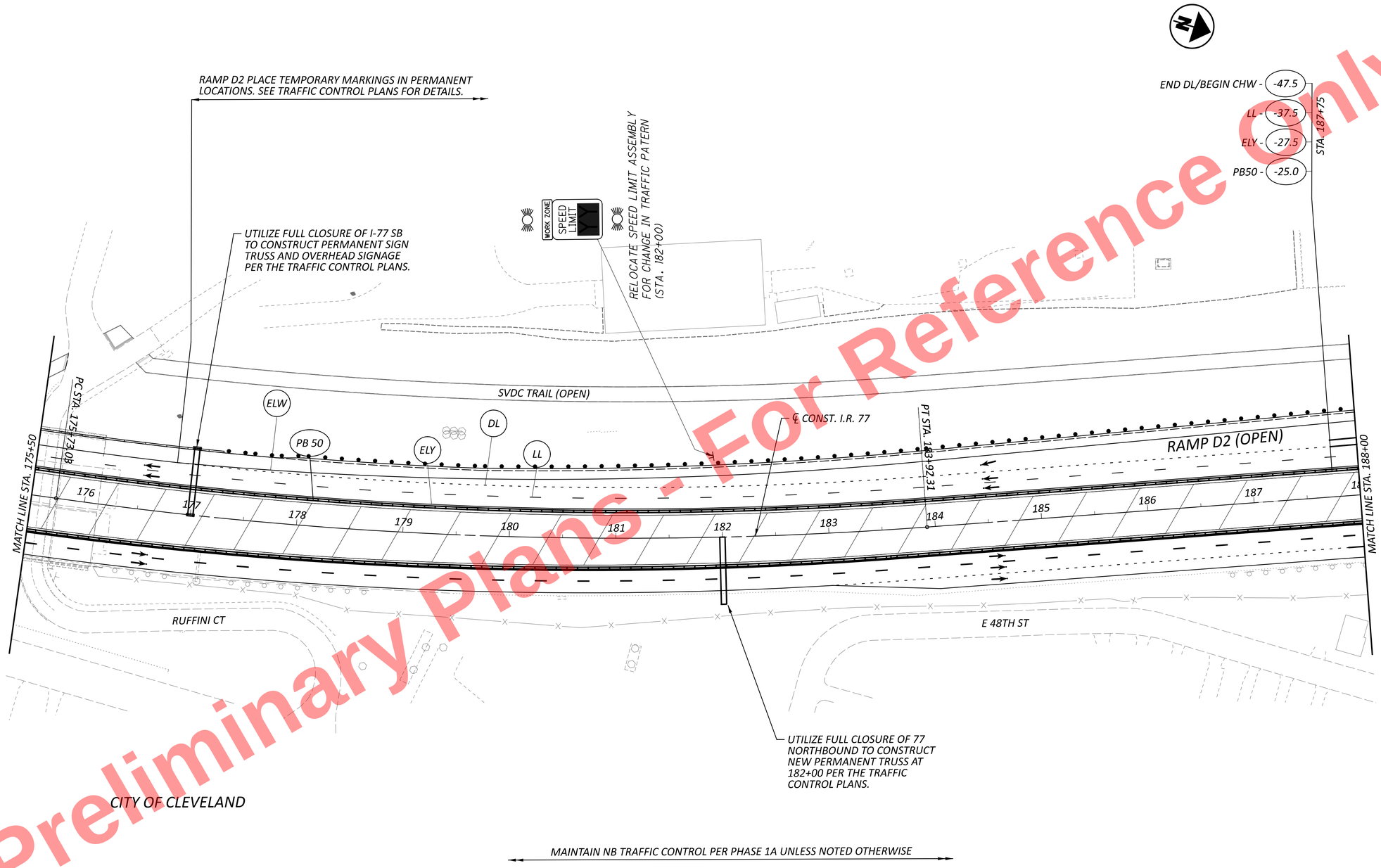
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.140 TOTAL P.1135




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.141 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:42:12 PM USER: janmurray
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RAMP D2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS. SEE TRAFFIC CONTROL PLANS FOR DETAILS.

-47.5 - END CHW/BEGIN ELW
-37.5 - LL
-27.5 - ELY
-25.0 - PB 50

STA. 192+13

SVDC TRAIL (OPEN)

CHW

ELW

RAMP D2 (OPEN)

PB 50

ELY

ELW

LL

SVDC TRAIL (OPEN)

EXIT 159B
Fleet Ave
1 MILE

189 190 191 192 193 194 195 196 197 198 199 200

MATCH LINE STA. 188+00

MATCH LINE STA. 200+50

℄ CONST. I.R. 77

RAMP D1 (OPEN)

℄ STA. 188+19.29

PT STA. 196+12.54

PERSHING AVE

CITY OF CLEVELAND

UTILIZE FULL CLOSURE OF 77 TO REMOVE EXISTING TRUSS AT 196+00 AND CONSTRUCT NEW PERMANENT TRUSS AT 196+00 PER TRAFFIC CONTROL PLANS. MOUNT EXISTING OVERHEAD SIGNS WITH TEMPORARY OVERLAY ON NEW TRUSS UNTIL PHASE 3 WHEN PERMANENT TRAFFIC CONTROL WILL BE INSTALLED.

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 188+00 TO STA. 200+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.142 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:23 PM USER: janmurray
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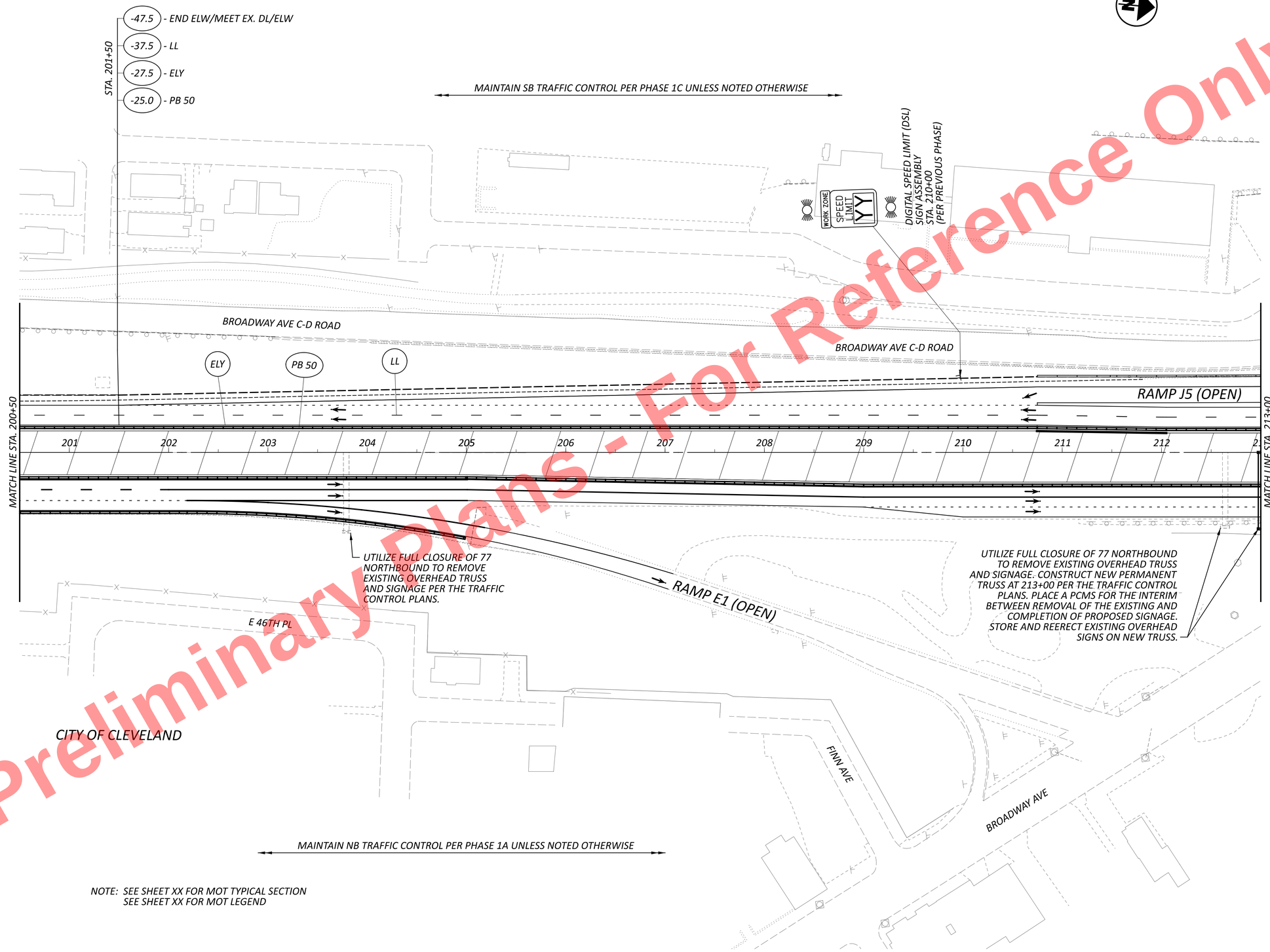


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.143 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:24 PM USER: janmurray
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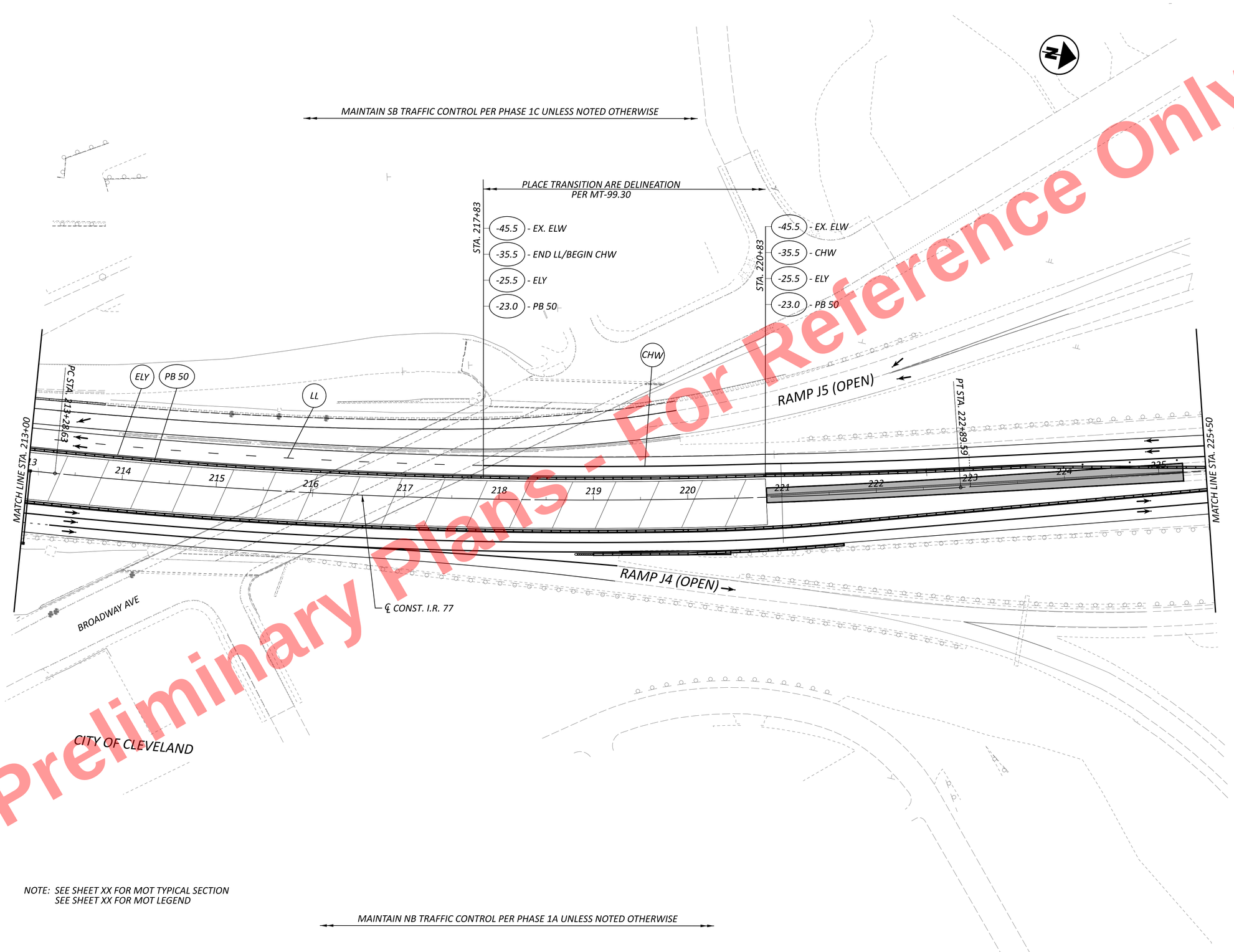


For Reference Only
Preliminary Plans - For

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
## STA. 213+00 TO STA. 225+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:24 PM USER: janmurray
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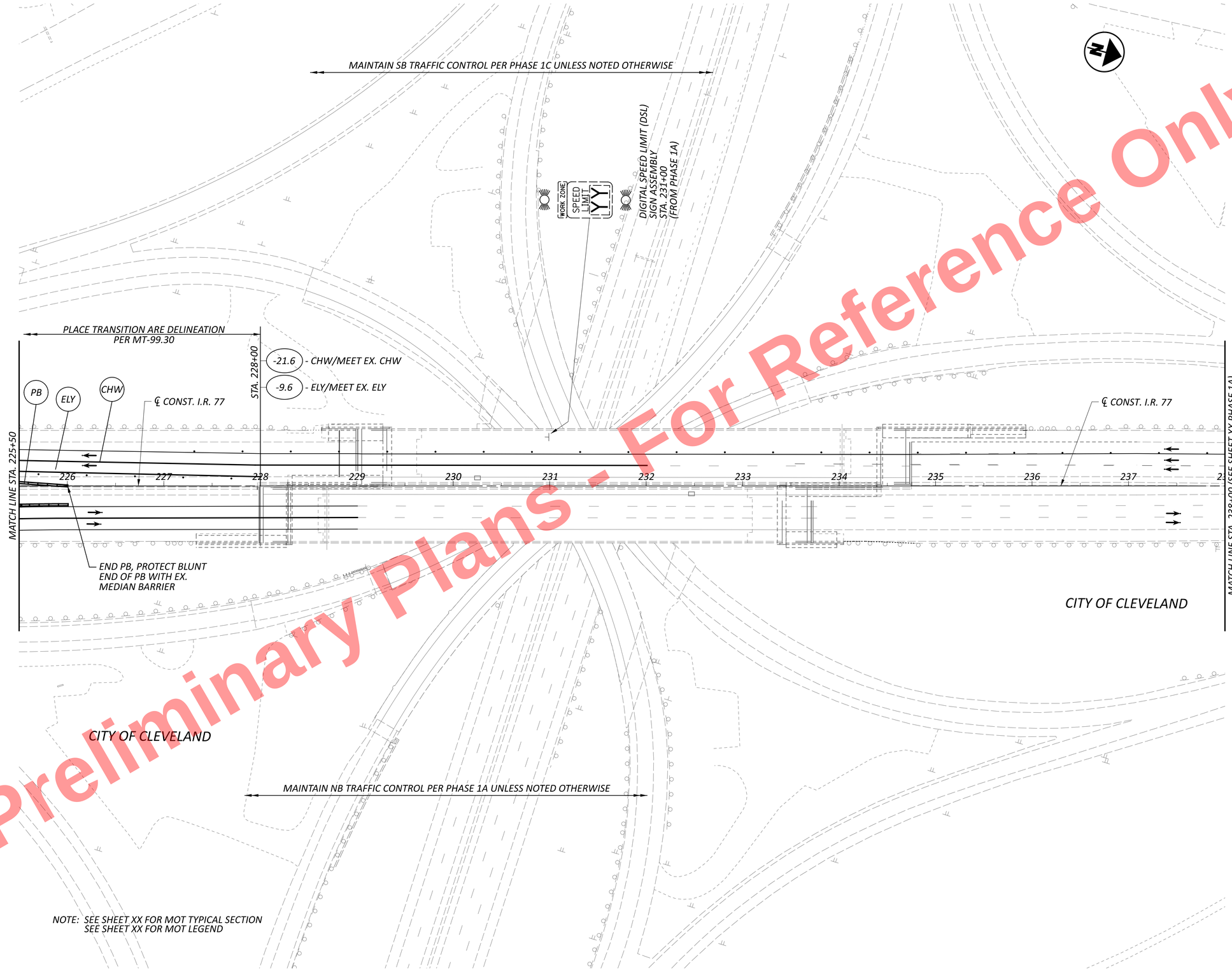
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.144 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 2
# STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.145 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:01:25 PM USER: janmurray
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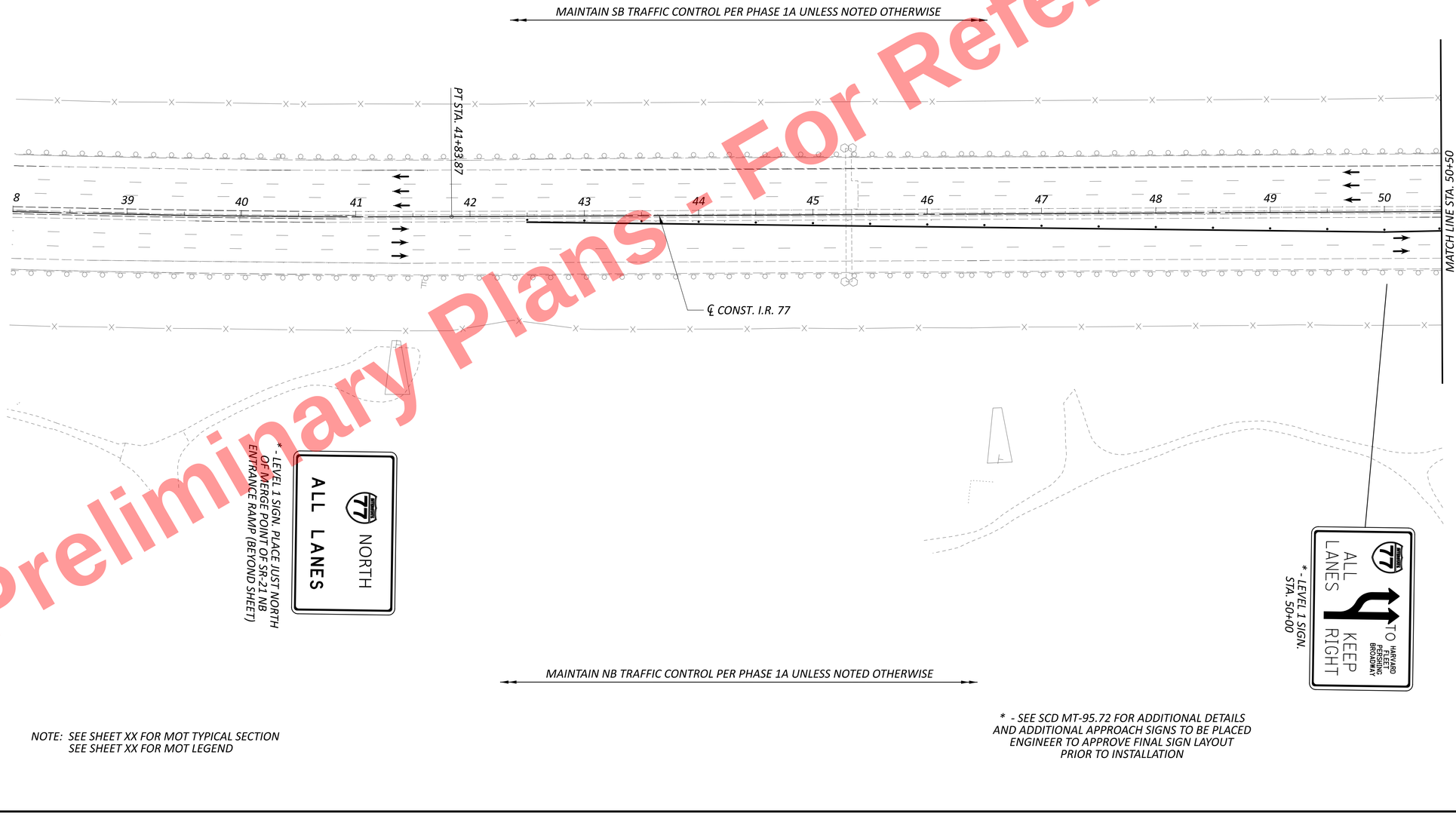
LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) WORK ZONE LANE ARROW, CLASS I
- (CHW) WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) WORK ZONE DOTTED LINE, CLASS I
- (CL) WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) WORK ZONE LANE LINE, CLASS I, 6"
- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

* - SEE SCD MT-95.72 FOR ADDITIONAL DETAILS AND ADDITIONAL APPROACH SIGNS TO BE PLACED ENGINEER TO APPROVE FINAL SIGN LAYOUT PRIOR TO INSTALLATION

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 38+00 TO STA. 50+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.146 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_I077_South - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:18:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: janmurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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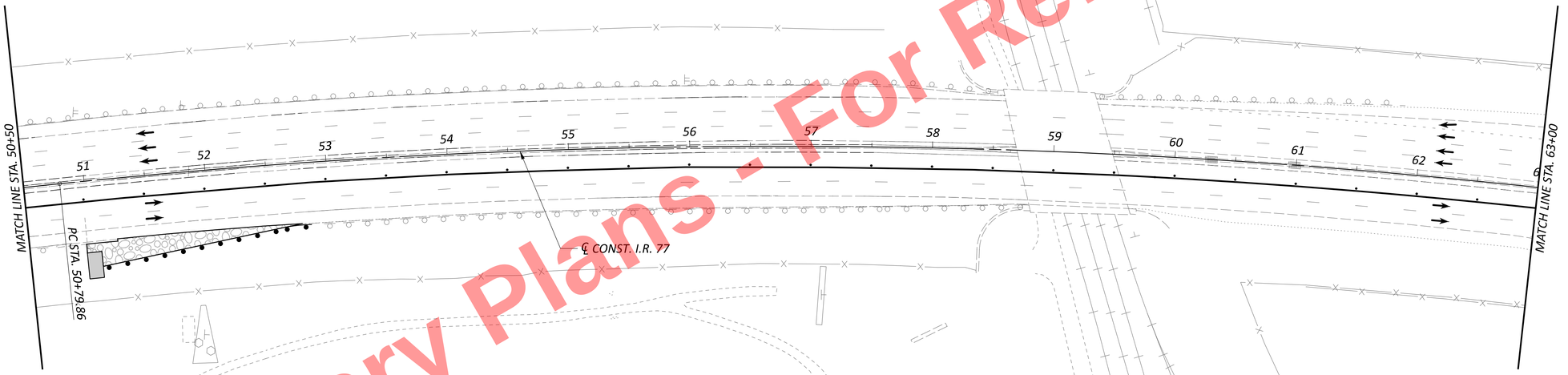
CUY-77-11.43 - PART 1

*MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE*




*MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE*

** - SEE SCD MT-95.72 FOR ADDITIONAL DETAILS AND ADDITIONAL APPROACH SIGNS TO BE PLACED ENGINEER TO APPROVE FINAL SIGN LAYOUT PRIOR TO INSTALLATION*

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 50+50 TO STA. 63+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.147 TOTAL P.1135

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

CURVE DATA- CURVE XO5
Δ=5°18'13.5"
R=2292.0

CURVE DATA-CURVE XO6
Δ=4°58'4.9"
R=2302.0

ELY/PT CURVE XO6 - -22.5
END CHW/BEGIN ELW - -11.5
STA. 74+50

6.9 - ELY/ PT CURVE XO5
18.9 - CHW
STA. 70+12

-13.9 - ELY/PC CURVE XO6
-2.9 - CHW
STA. 72+51

RAMP A2 (OPEN)

CURVE XO5

CURVE XO6

PC STA. 75+16.62

MATCH LINE STA. 63+00

63 64 65 66 67 68 69 70 71 72 73 74 75

MATCH LINE STA. 75+50

PT STA. 67+31.74

CHW

ELY

CHW

CHW

PB

IA

℄ CONST. I.R. 77

RAMP A1 (OPEN)

STA. 69+11
25.5 - CHW
37.5 - CHW

STA. 66+50
27.9 - END CHW/MEET EX. CHW

STA. 68+00
15.5 - MEET EX. ELY/BEGIN ELY/PC CURVE XO5
27.5 - MEET EX. CHW/BEGIN CHW
39.5 - MEET EX. CHW/BEGIN CHW

CURVE XO7

STA. 70+00
33.4 - END CHW/BEGIN ELW
35.4 - BEGIN PB

END CHW/BEGIN ELY - 4.8
ELW/PT CURVE XO7 - 15.8
PB - 17.8
STA. 74+50

STA. 65+00

PLACE TRANSITION AREA DELINEATION
PER MT-99.30

* - LEVEL 1 SIGN.
STA. 68+00

77 NORTH
ALL LANES

STA. 73+53
6.8 - CHW
17.8 - ELW/PC CURVE XO7

CURVE DATA-CURVE XO7
Δ=2°24'58.2"
R=2292.0

* - SEE SCD MT-95.72 FOR ADDITIONAL DETAILS AND ADDITIONAL APPROACH SIGNS TO BE PLACED ENGINEER TO APPROVE FINAL SIGN LAYOUT PRIOR TO INSTALLATION

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.148 TOTAL P.1135

CUY-77-11.43 - PART 1

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CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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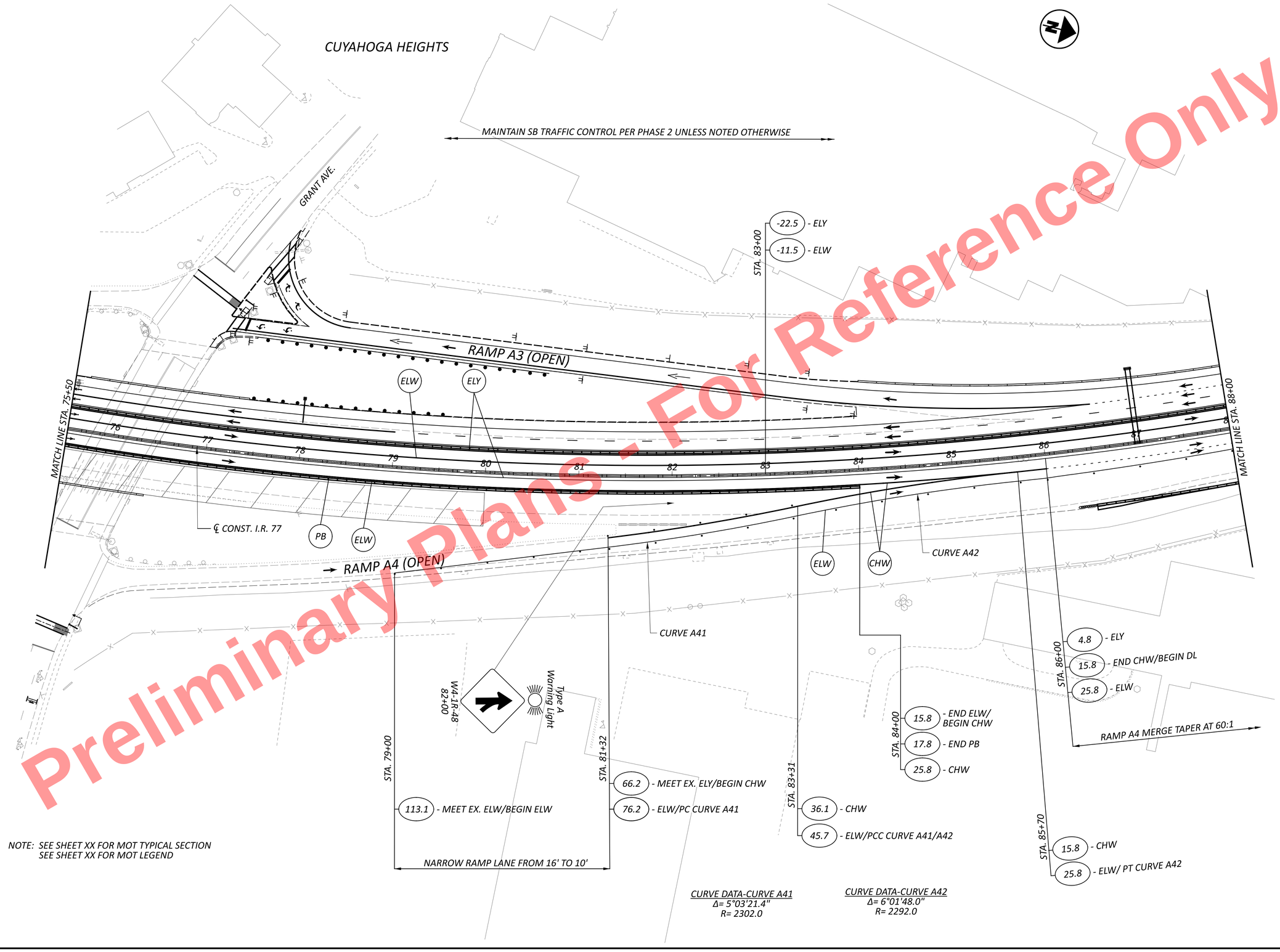



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 11/20/25

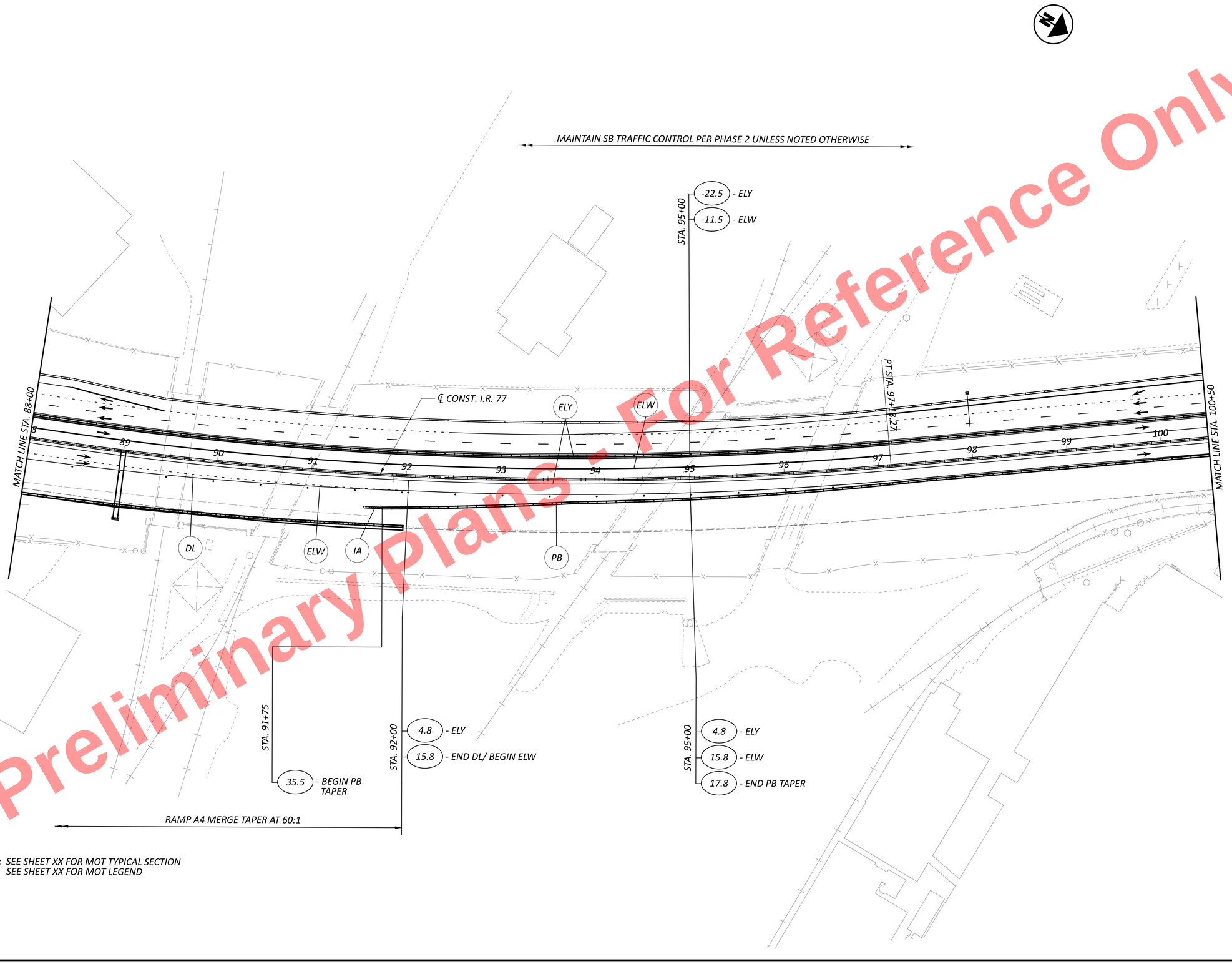
PROJECT ID
105743

SHEET P.149 | TOTAL P.1135

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\MOT\Sheets\105743_MP300.dgn

CUY-77-11.43 - PART 1

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

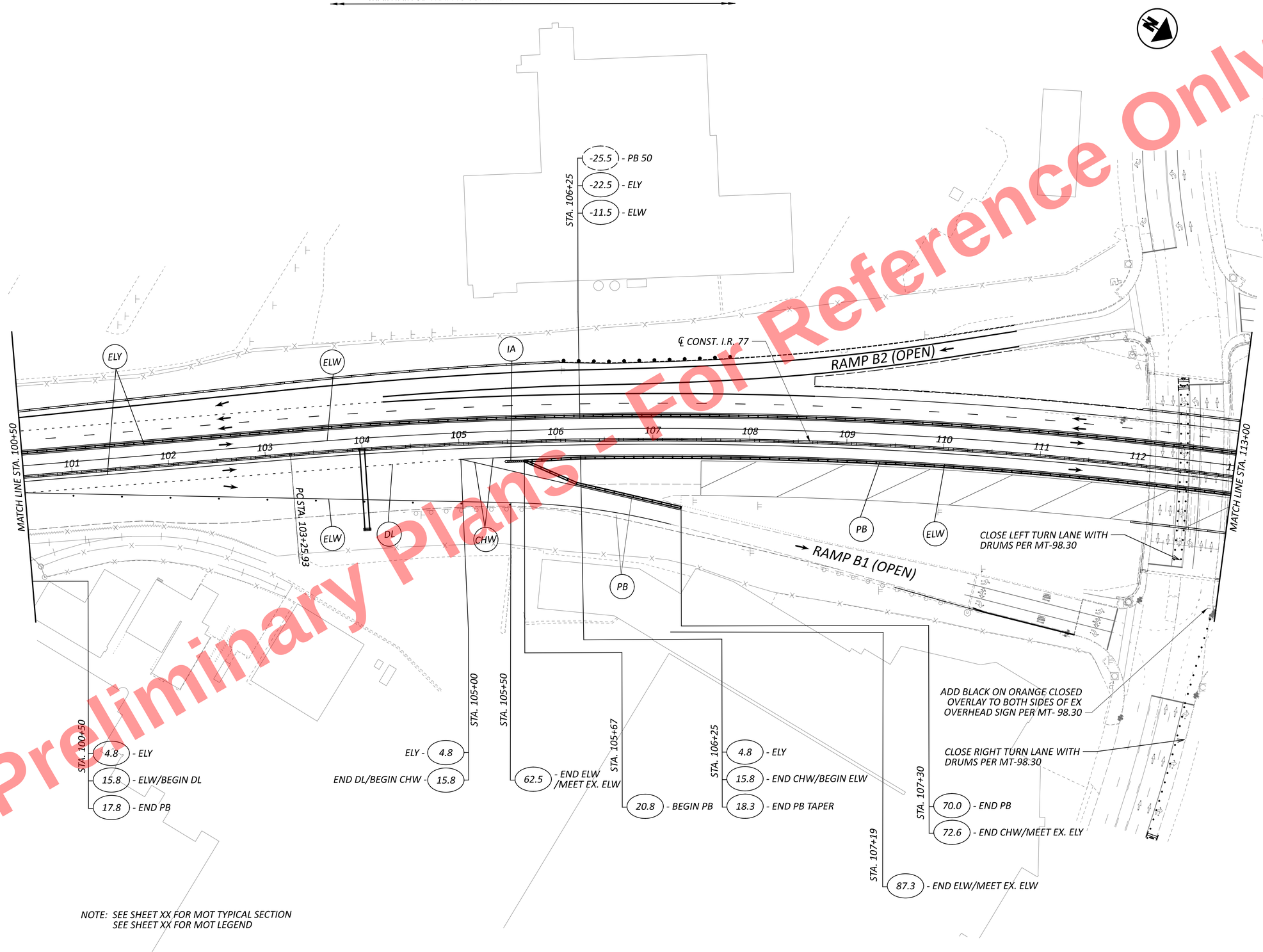
# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.150 TOTAL P.1135

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.151 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:50:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: janmurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

STA. 118+00
-25.5 - PB 50
-22.5 - ELY
-11.5 - ELW

RAMP B3 (OPEN)

ELY
ELW

MATCH LINE STA. 113+00

114 115 116 117 118 119 120 121 122 123 124 125

MATCH LINE STA. 125+50

PB
ELW
ELY

℄ CONST. I.R. 77

RAMP B4 (CLOSED)

CLOSE RAMP B4 PER MT-101.60

STA. 118+00
4.8 - ELY
15.8 - ELW
17.8 - PB

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SJEET XX FOR DETOUR PLANS FOR RAMP B4

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.152 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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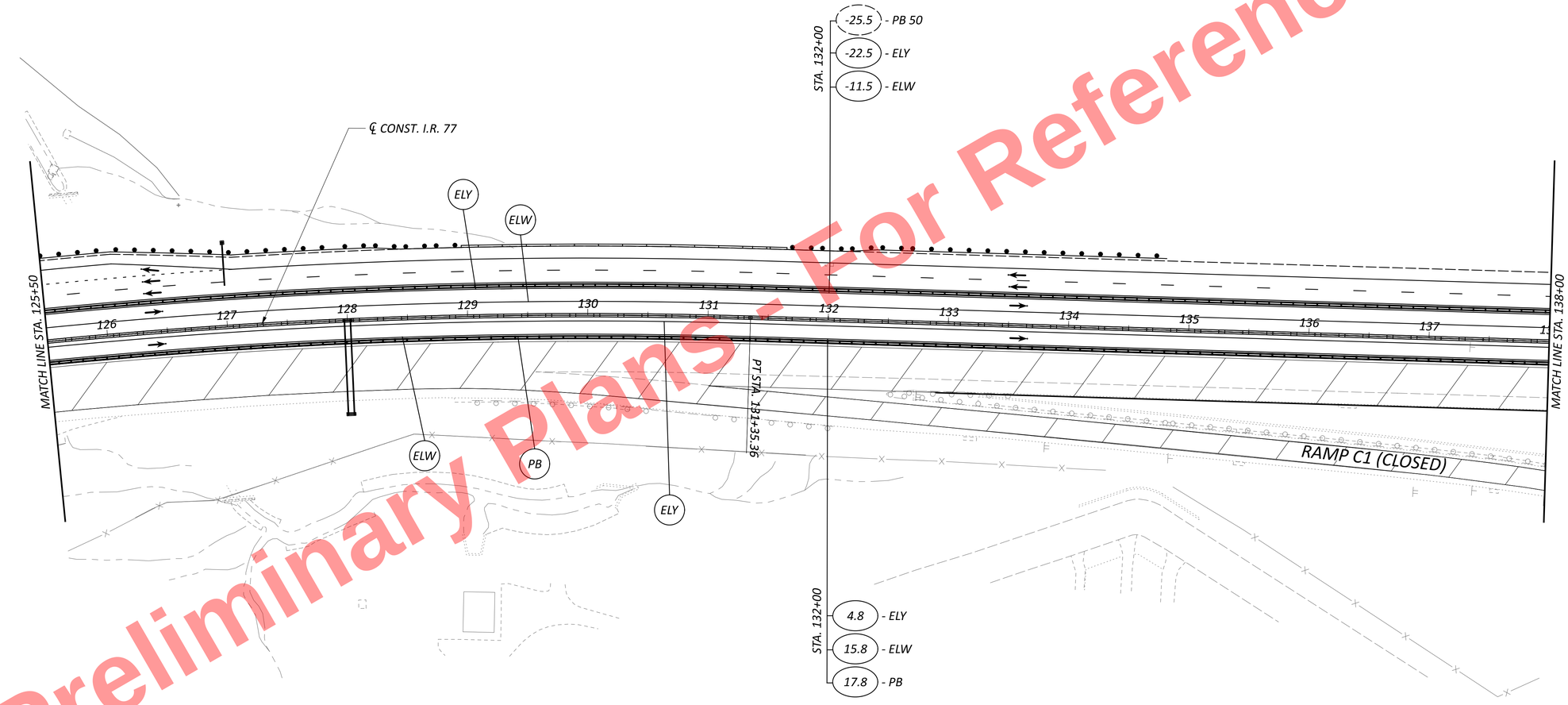
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

VILLAGE OF NEWBURGH HEIGHTS




CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLANS FOR RAMP C1

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 125+50 TO STA. 138+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.153 TOTAL P.1135

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com
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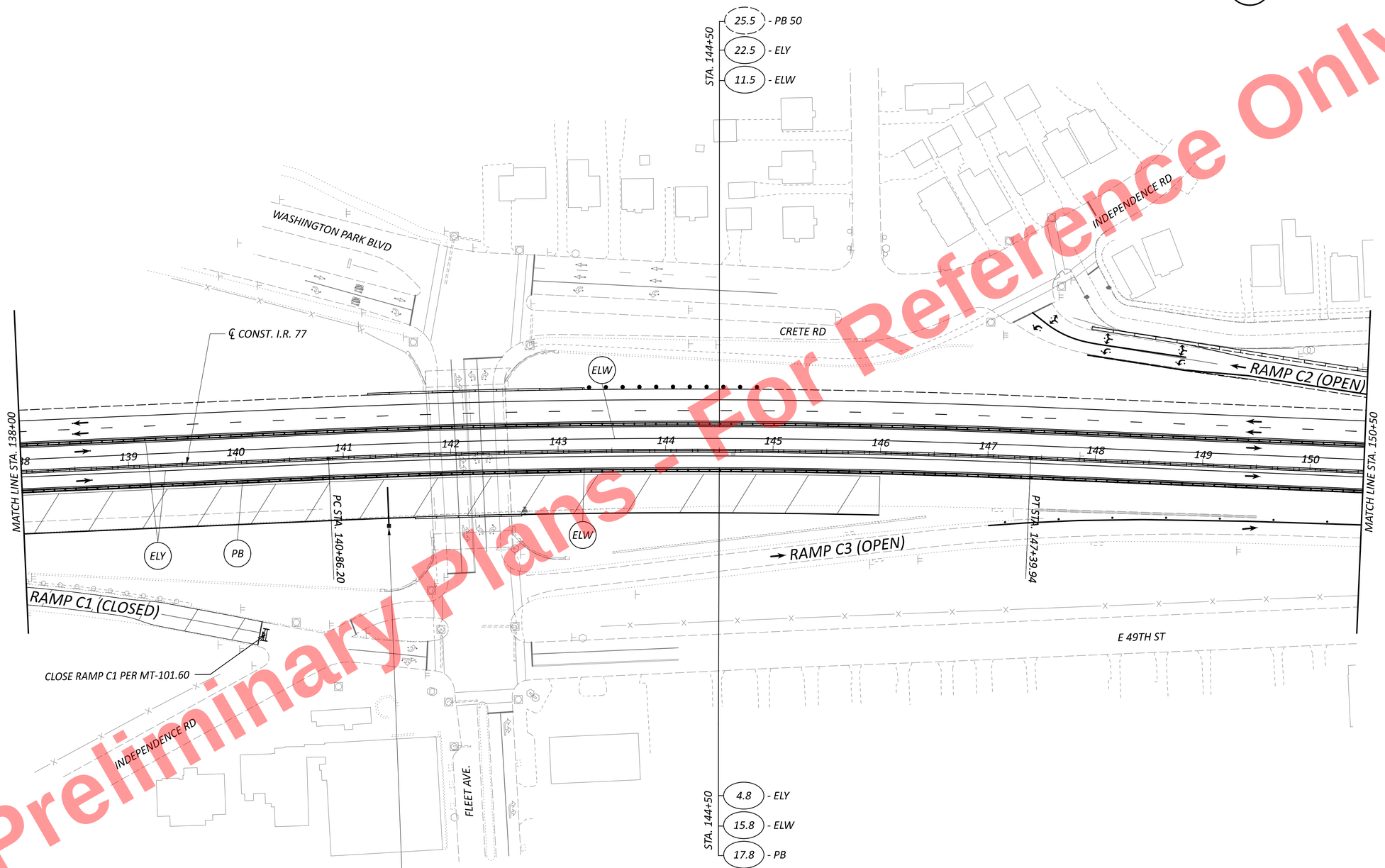
MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.154 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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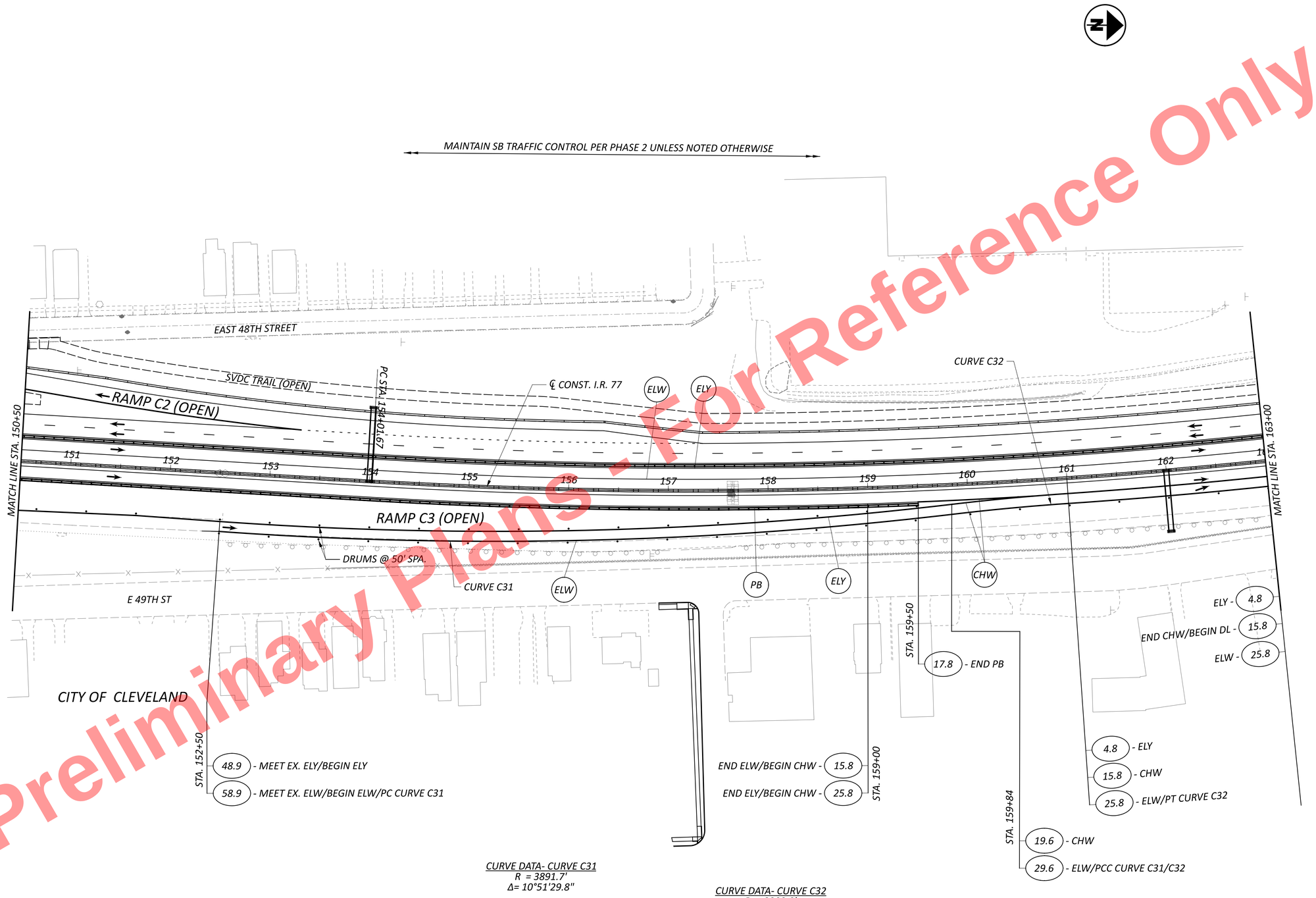
Preliminary Plans - For Reference Only




CURVE DATA- CURVE C31
R = 3891.7'
Δ= 10°51'29.8"

CURVE DATA- CURVE C32
R = 2292.0'
Dc = 02°54'33.2"

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.155 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 10:00:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_i077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:48 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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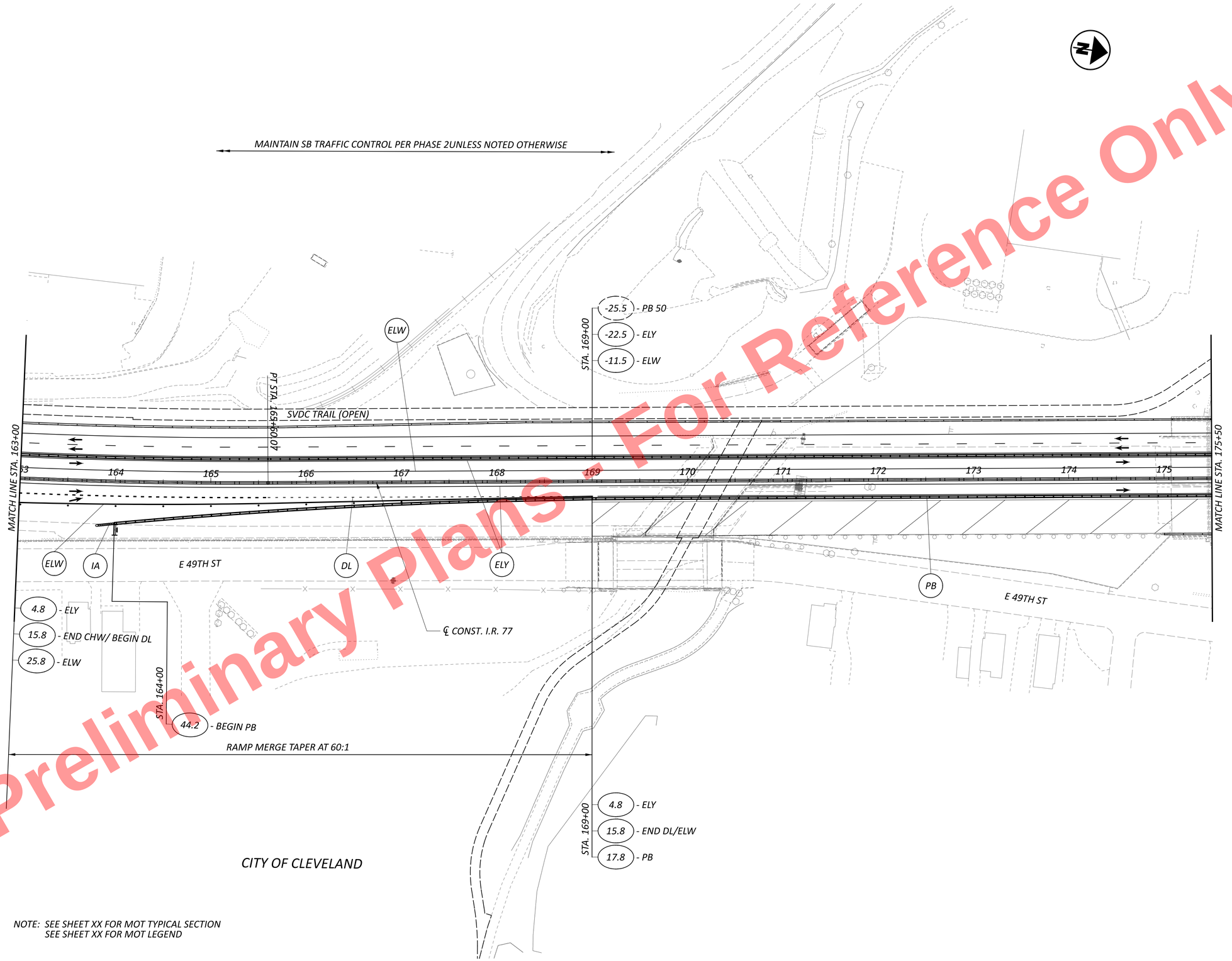
CUY-77-11.43 - PART 1

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2UNLESS NOTED OTHERWISE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

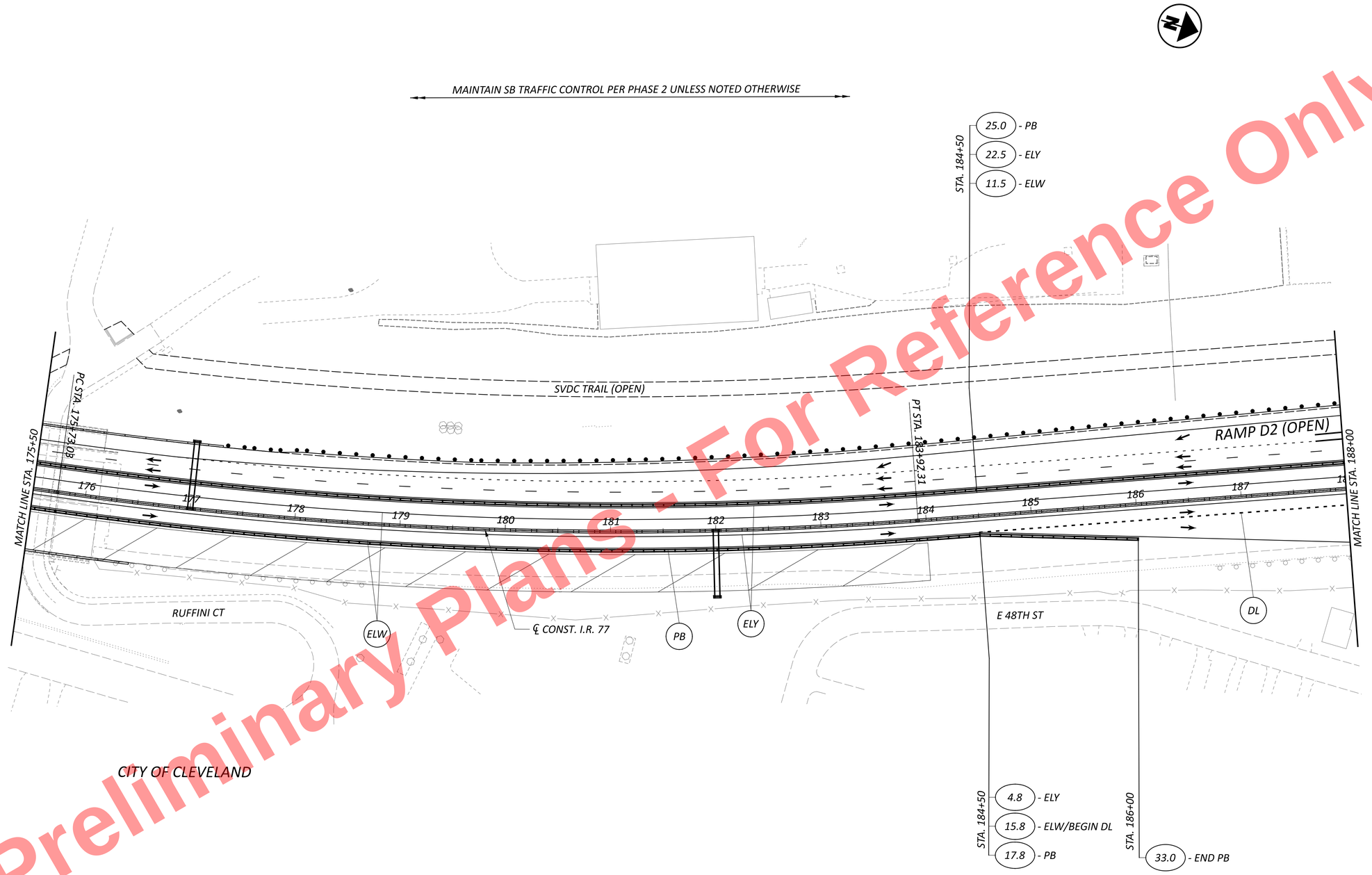
HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.156 TOTAL P.1135

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.157 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.43 - PART 1

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

-22.5 - ELY
-11.5 - ELW

CHW
IA
RAMP D2
RAMP D2 (OPEN)
BROADWAY AVE C-D ROAD
ELY
℄ CONST. I.R. 77
MATCH LINE STA. 188+00
189
190
191
192
193
194
195
196
197
198
199
200
MATCH LINE STA. 200+50
PC STA. 188+19.29
DL
ELW
CURVE D10
STA. 190+33
RAMP D1 (OPEN)
ELW
PB
ELY
PT STA. 196+12.54
RAMP D1
ELW
DL
73.7 - END ELW/MEET EX./PT CURVE D10
STA. 188+71
4.8 - ELY
15.8 - END DL/BEGIN CHW
STA. 189+15
17.8 - BEGIN PB
STA. 188+88
58.9 - ELW/PC CURVE D10
STA. 191+00
63.6 - END PB
CITY OF CLEVELAND
STA. 191+45
74.0 - END CHW/MEET EX. ELY
PERSHING AVE
STA. 197+00
4.8 - ELY
15.8 - ELW/BEGIN DL
17.8 - PB
STA. 200+00
40.4 - END PB

CURVE DATA- CURVE D10
R = 1330.9'
Δ= -06°06'18.4"

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 188+00 TO STA. 200+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.158 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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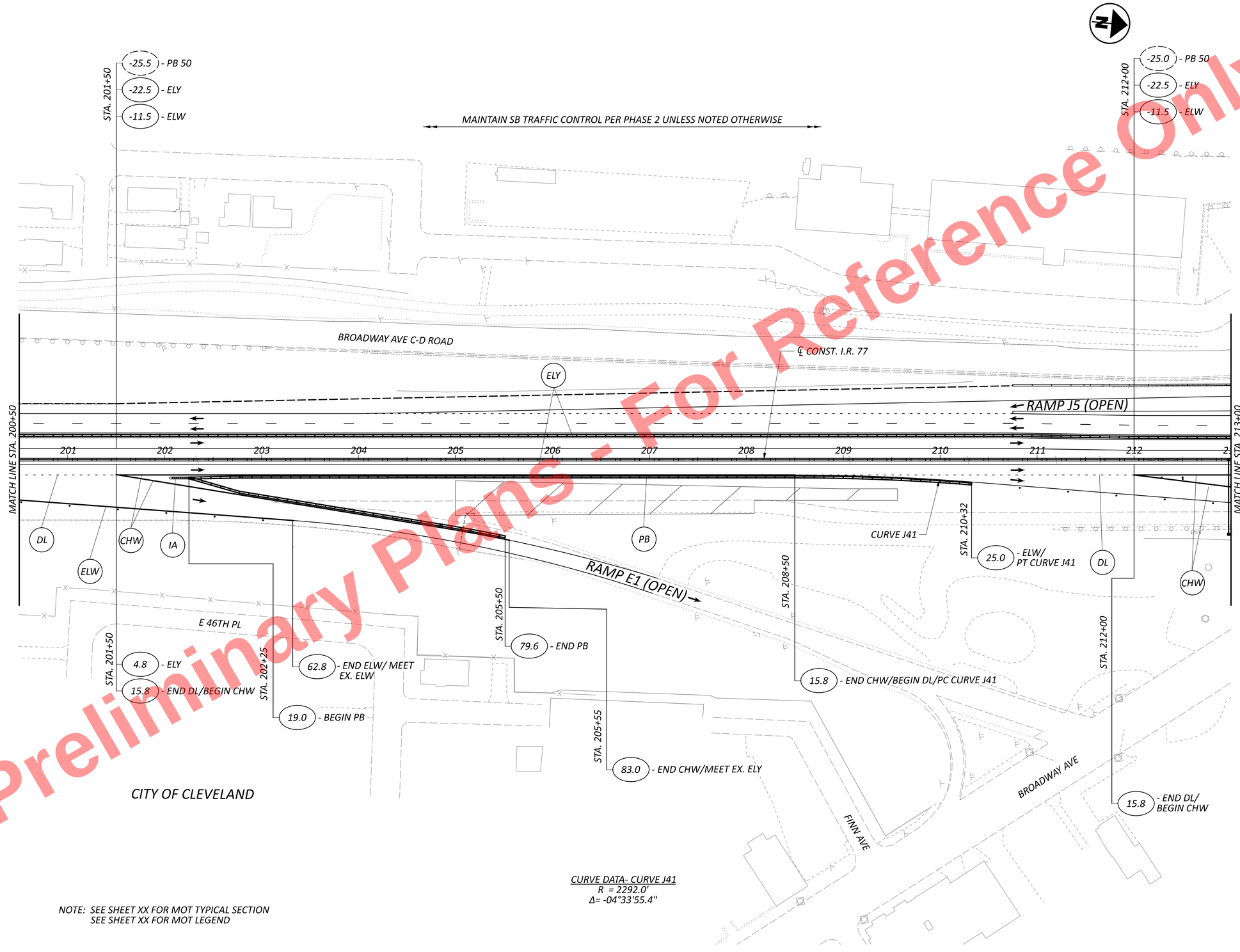
CUY-77-11.43 - PART 1




CURVE DATA- CURVE J41
R = 2292.0'
Δ= -04°33'55.4"

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.159 TOTAL P.1135

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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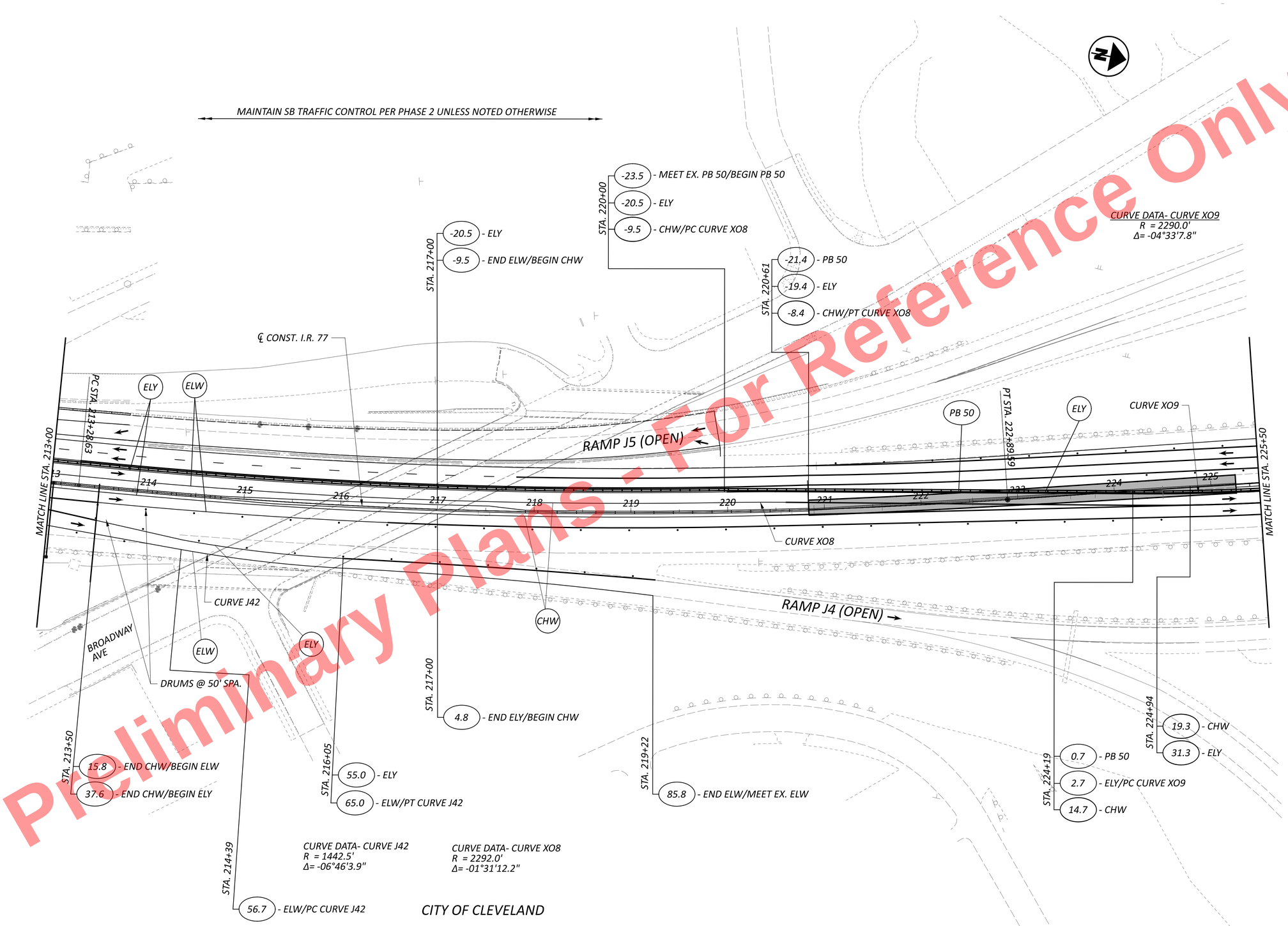
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
# STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.160 |
| TOTAL | P.1135 |

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:09:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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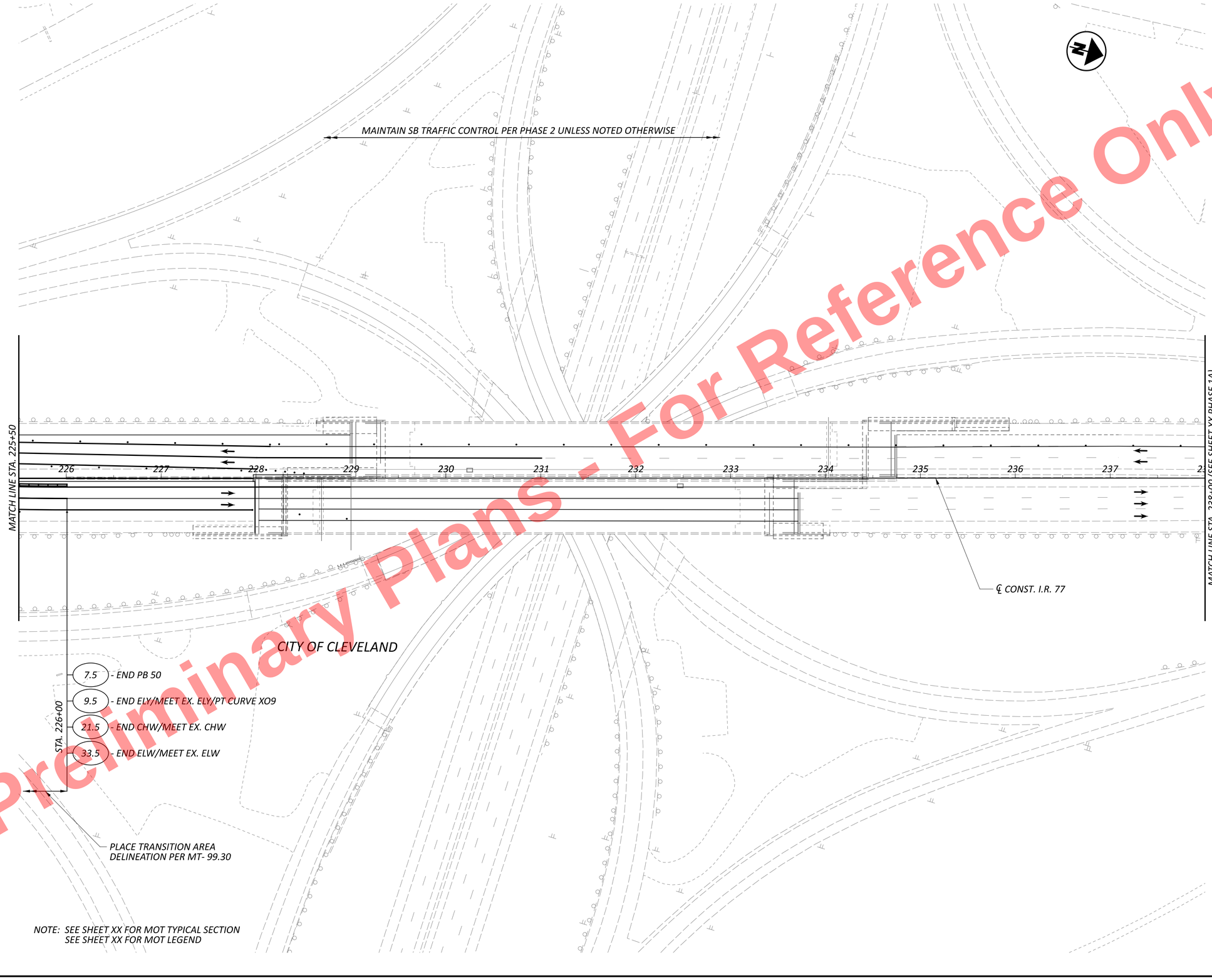
CUY-77-11.43 - PART 1




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3A
## STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.161 TOTAL P.1135

Preliminary Plans - For Reference Only

LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) - WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) - WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) - WORK ZONE LANE ARROW, CLASS I
- (CHW) - WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) - WORK ZONE DOTTED LINE, CLASS I
- (CL) - WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) - WORK ZONE LANE LINE, CLASS I, 6"
- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE




MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 63+00 TO STA. 75+50

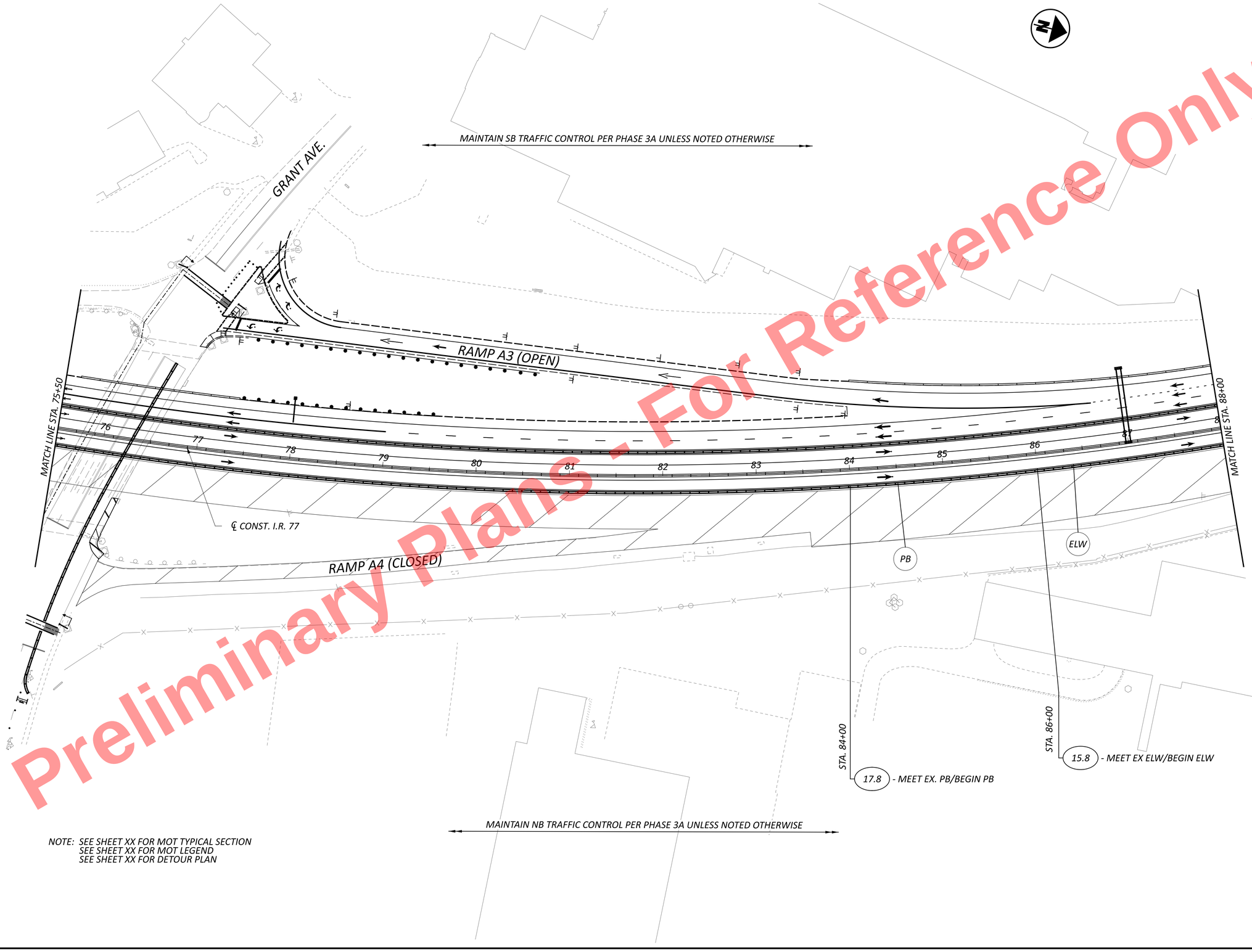
CUY-77-11.21

DESIGN AGENCY: HNTB

DESIGNER: JEM
REVIEWER: MTR 11/20/25
PROJECT ID: 105743
SHEET: P.187 TOTAL: 0

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\MOT\Sheets\105743_MP301.dgn

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.163 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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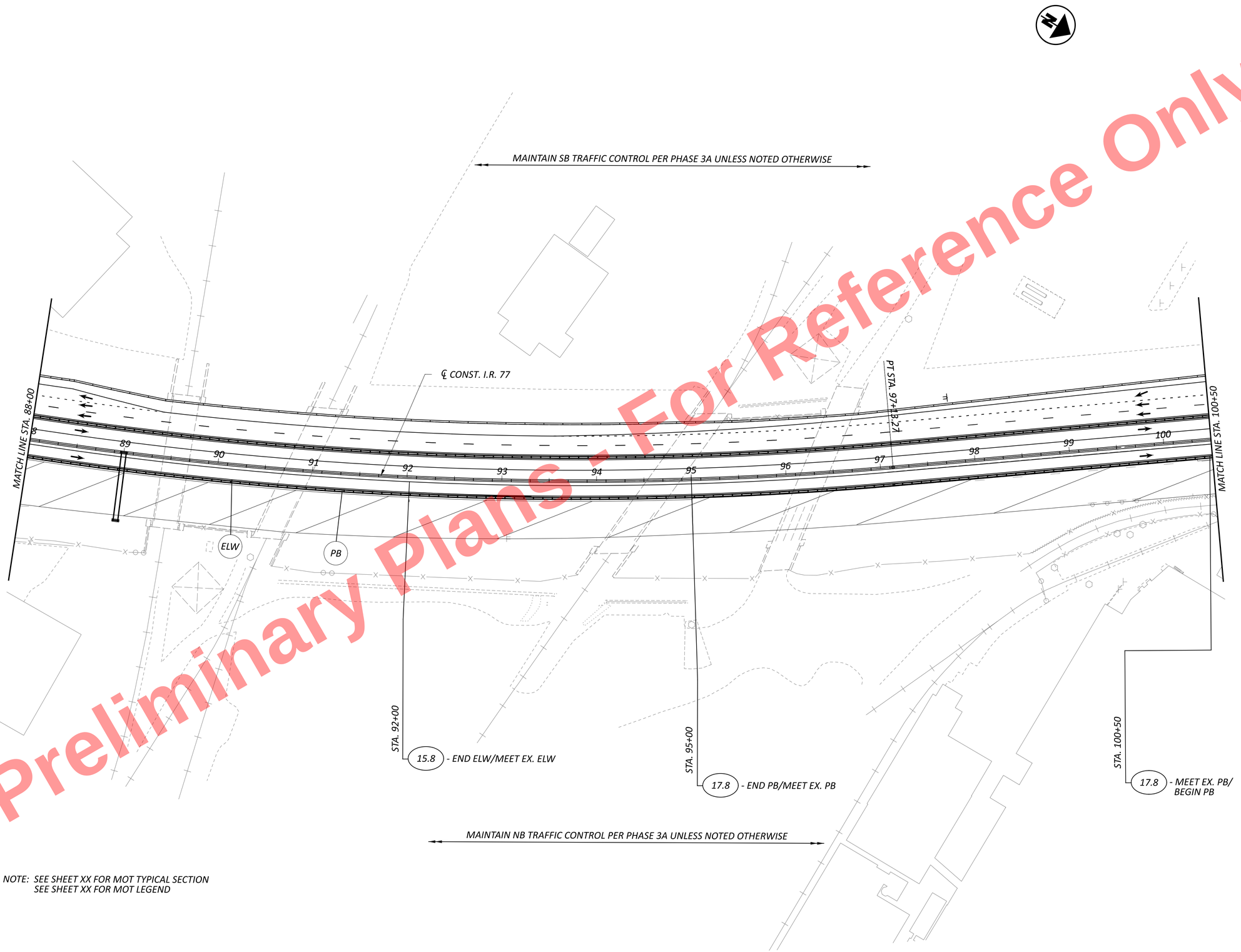
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.164 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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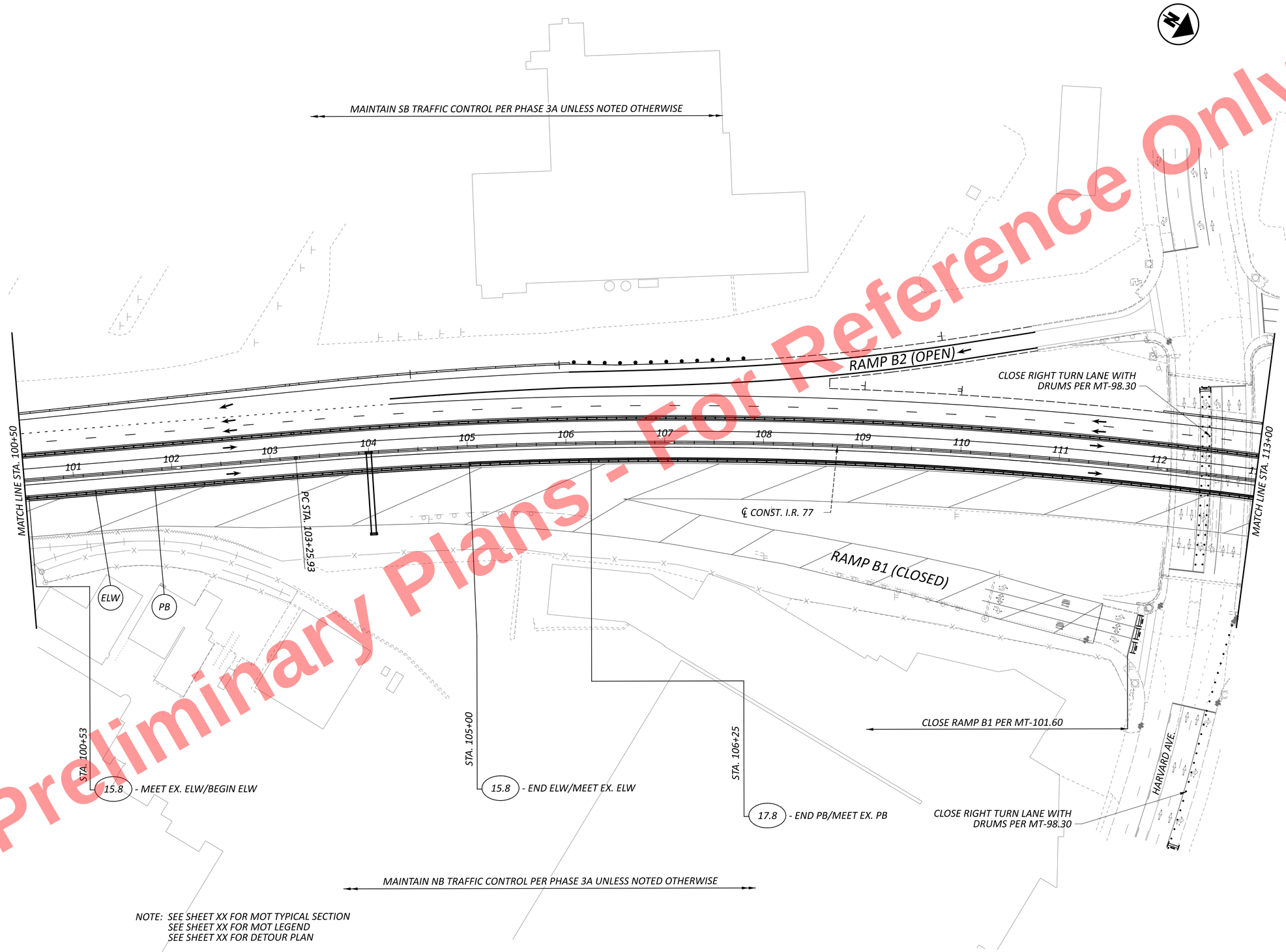
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 100+50 TO STA. 113+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.165 |
| TOTAL | P.1135 |

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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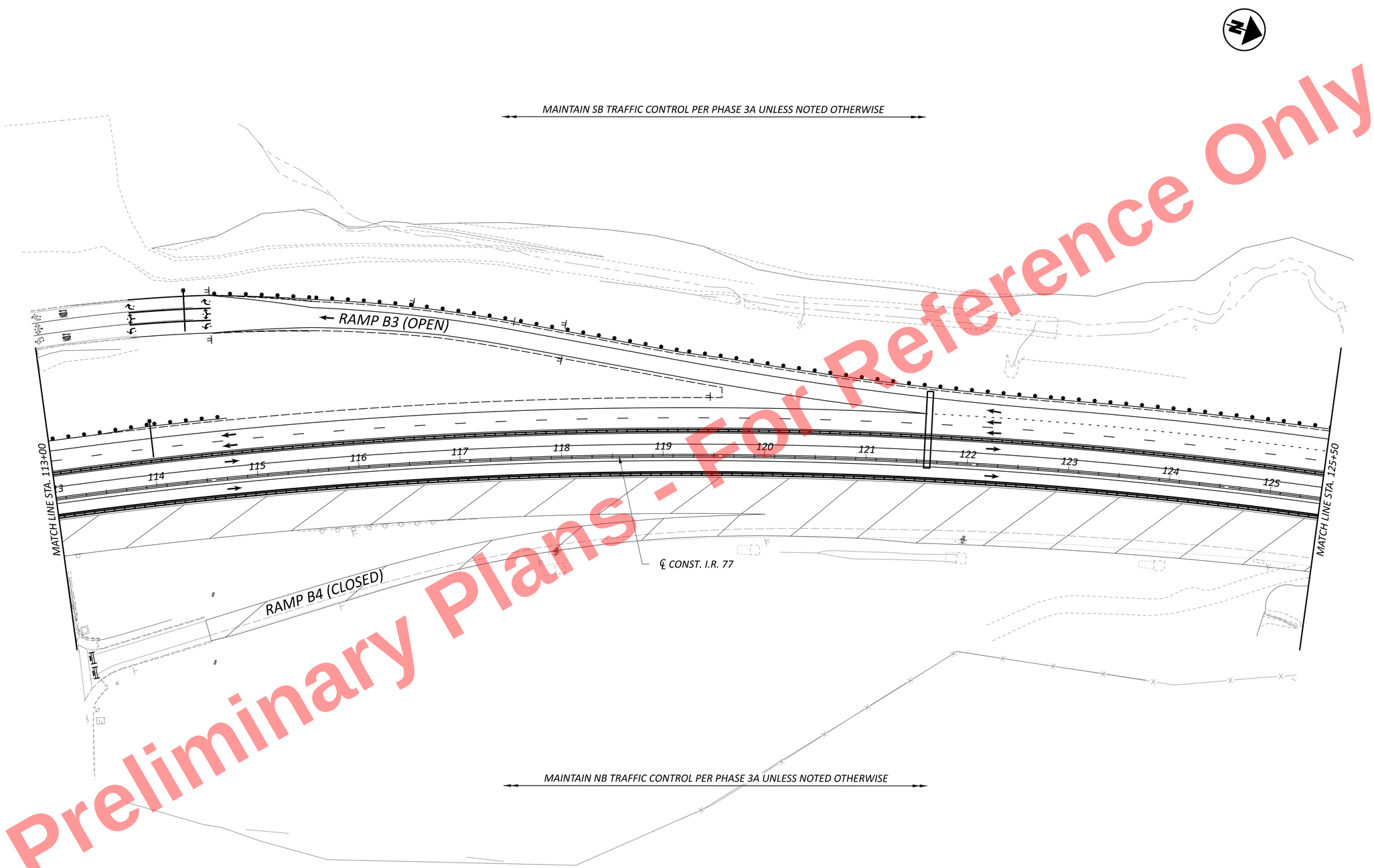
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.166 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.43 - PART 1

VILLAGE OF NEWBURGH HEIGHTS

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

℄ CONST. I.R. 77

MATCH LINE STA. 125+50

126 127 128 129 130 131 132 133 134 135 136 137

PT STA. 131+35.36

MATCH LINE STA. 138+00

RAMP C1 (CLOSED)

CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.167 TOTAL P.1135

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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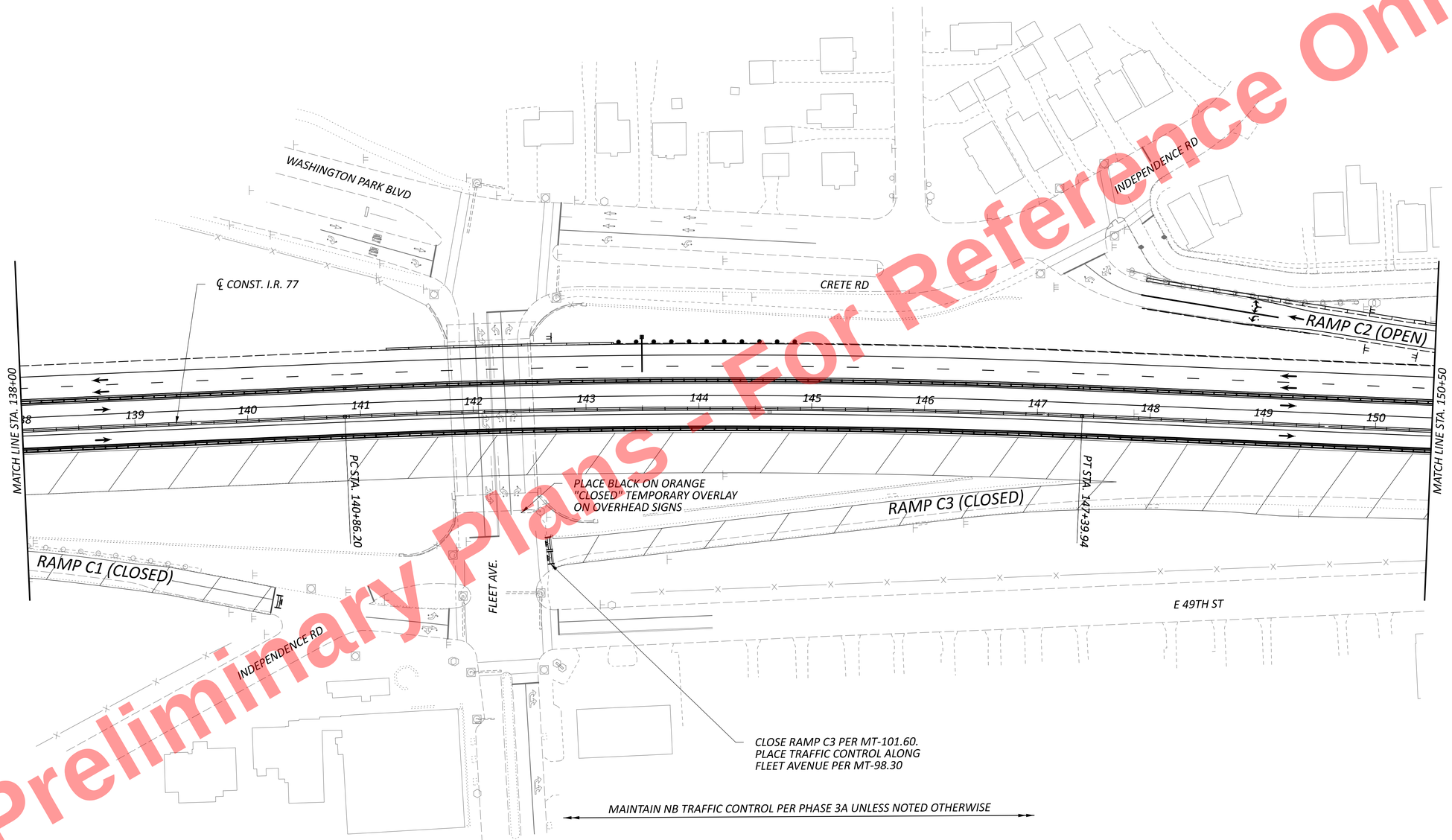
CUY-77-11.43 - PART 1




Preliminary Plans - For Reference Only

CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX DETOUR PLAN FOR RAMP C3

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.168 TOTAL P.1135

Preliminary Plans - Not For Reference Only

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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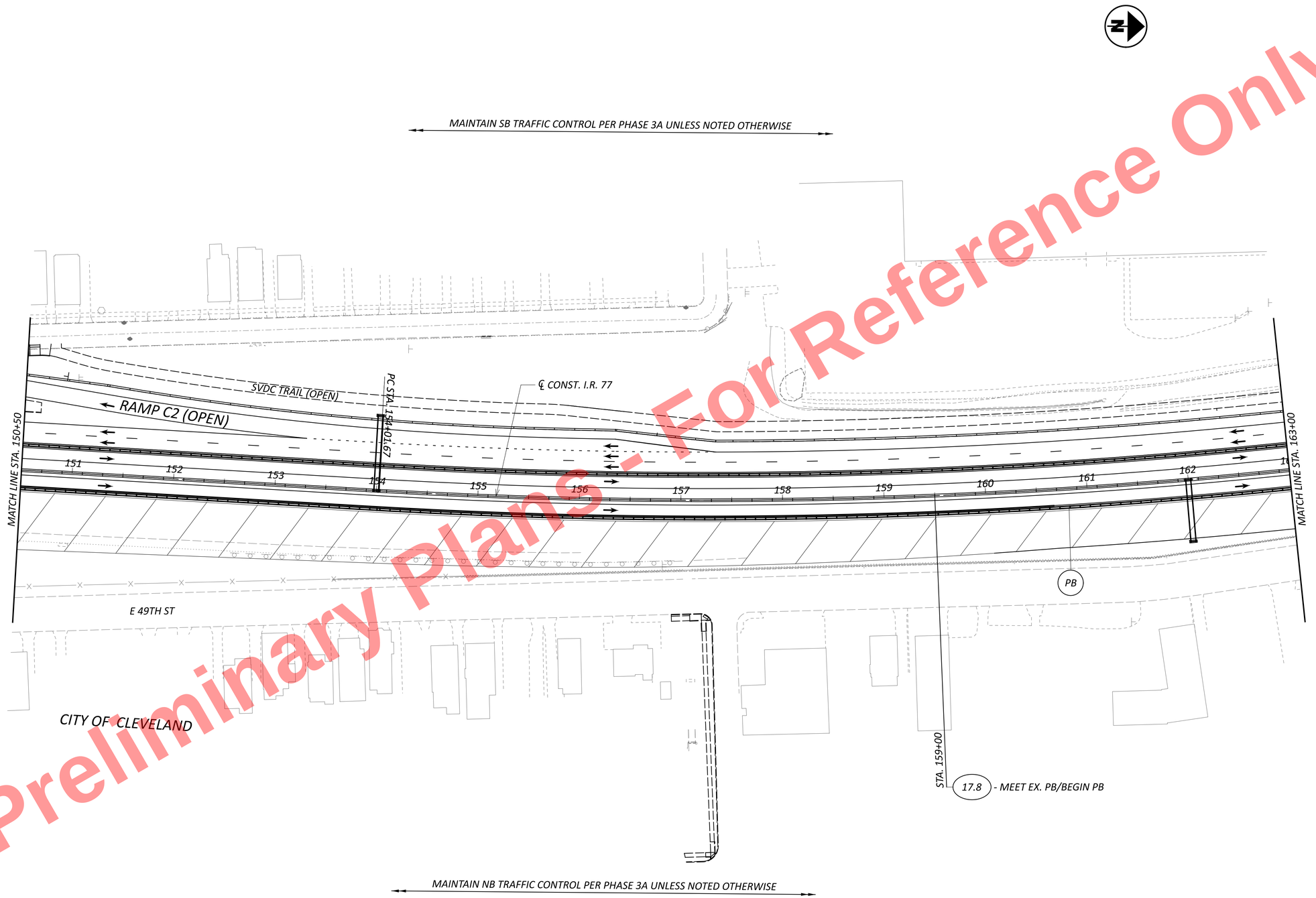
CUY-77-11.43 - PART 1




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

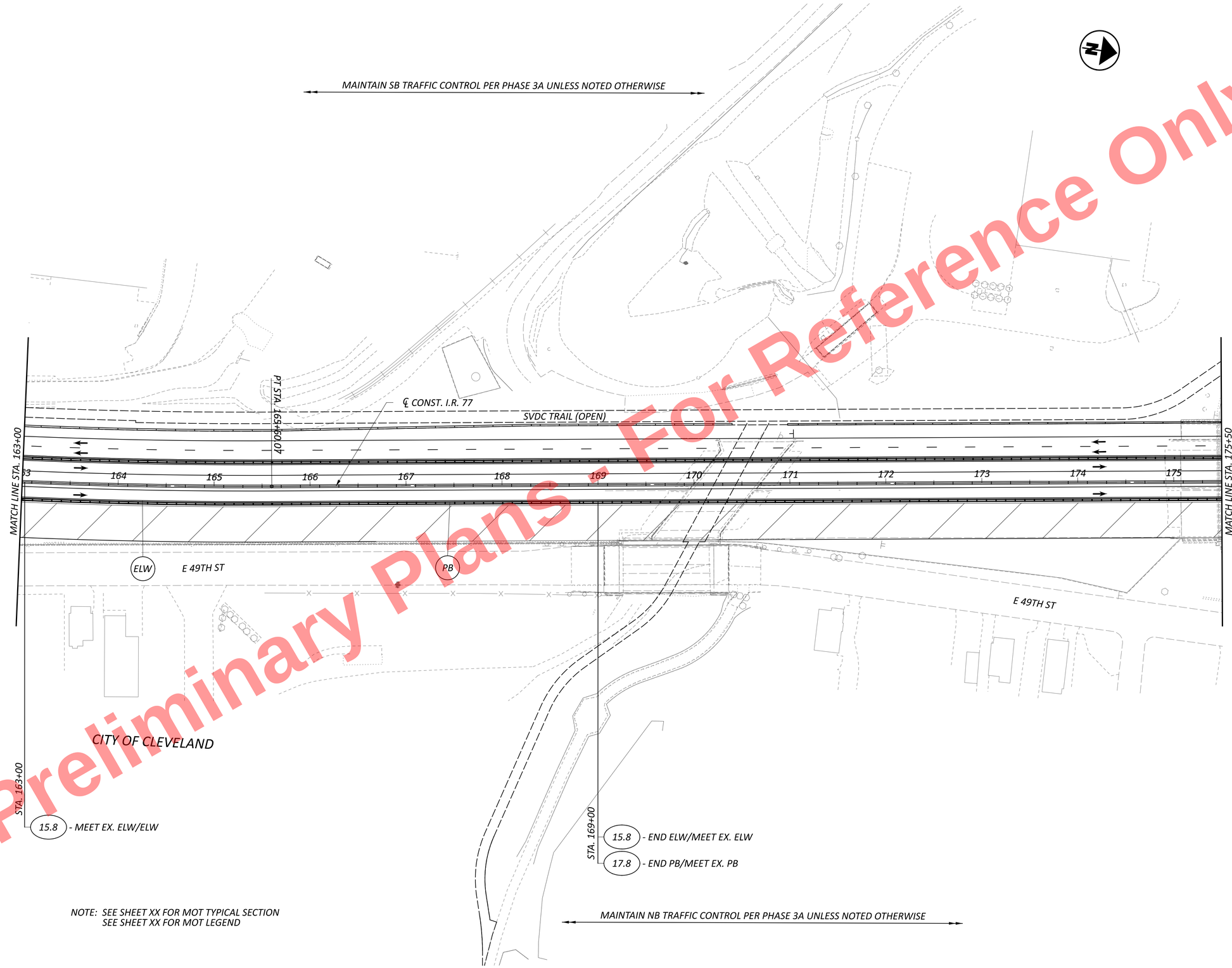
# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.169 TOTAL P.1135

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.170 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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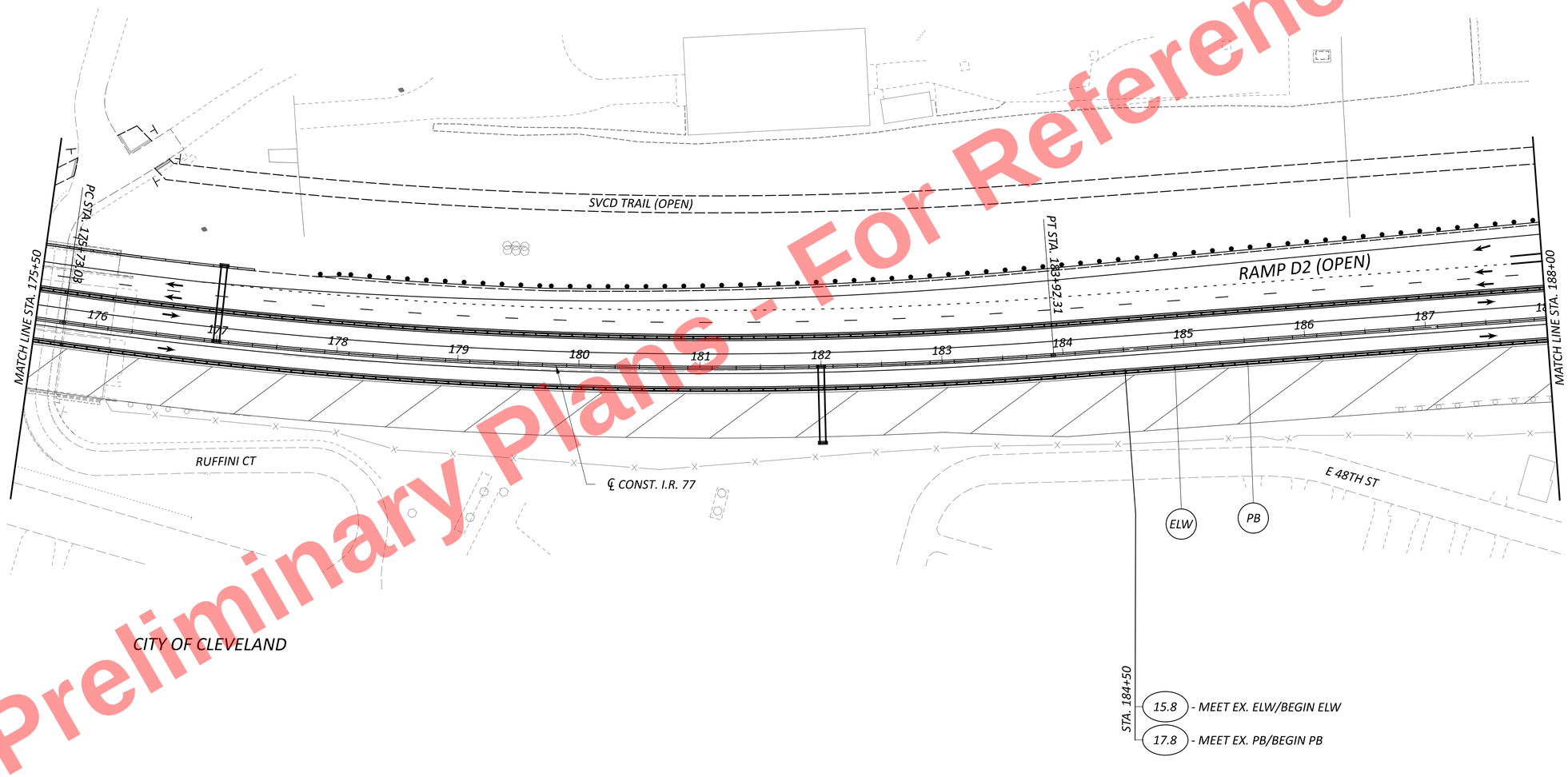
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE




MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 175+50 TO STA. 188+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.171 TOTAL P.1135

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

RAMP D2

RAMP D2 (OPEN)

BROADWAY AVE C-D ROAD

℄ CONST. I.R. 77

RAMP D1 (CLOSED)

MATCH LINE STA. 188+00

PC STA. 188+19.29

PT STA. 196+17.54

MATCH LINE STA. 200+50

189 190 191 192 193 194 195 196 197 198 199 200

ELW

PB

STA. 188+71

15.8 - END ELW/MEET EX. CHW

STA. 189+15

17.8 - END PB/MEET EX. PB

MEET EX. ELW/BEGIN ELW - 15.8

STA. 197+00

MEET EX. PB/BEGIN PB - 17.8

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN FOR RAMP D1

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
## STA. 188+00 TO STA. 200+50

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.172 |
| TOTAL | P.1135 |

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

BROADWAY AVE C-D ROAD

℄ CONST. I.R. 77

MATCH LINE STA. 200+50

MATCH LINE STA. 213+00

201 202 203 204 205 206 207 208 209 210 211 212

ELW

PB

RAMP E1 (CLOSED)

CLOSE THE EASTBOUND CURB LANE PER MT-95.40 TO COMPLETE RAMP CONSTRUCTION. SEE MOT NOTES FOR MORE DETAILS.

E 46TH PL

STA. 201+50

15.8 - END ELW/MEET EX. CHW

STA. 202+25

17.8 - END PB/MEET EX. PB

CITY OF CLEVELAND

FINN AVE

BROADWAY AVE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN FOR RAMP E1

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 200+50 TO STA. 213+00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.173 TOTAL P.1135

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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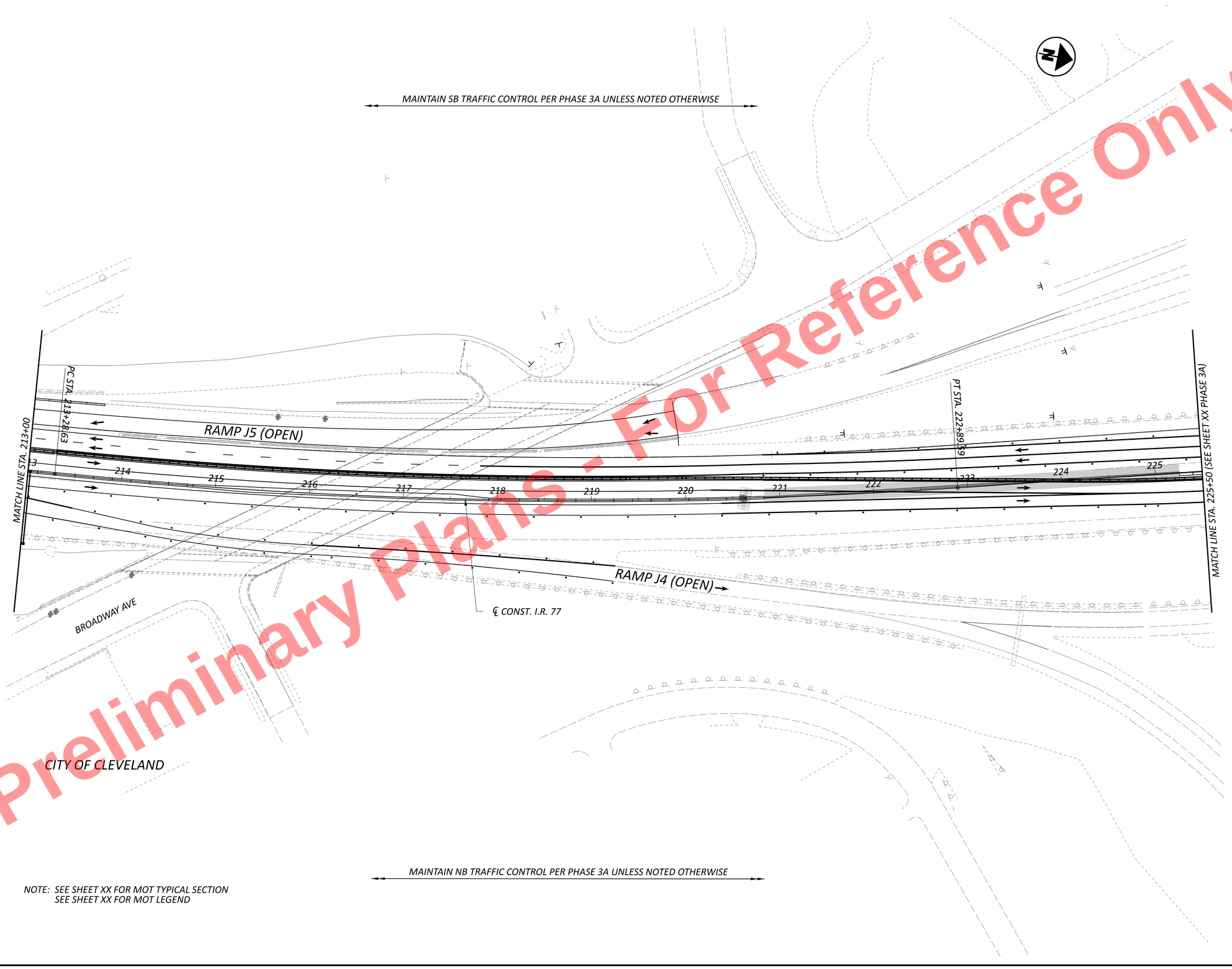
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.174 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:44:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: ccoholich@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

RAMP A3 (OPEN)

RAMP A4 (CLOSED)

GRANT AVE.

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON ON EX. PEDESTAL

CLOSE SIDEWALK PER MT-110.10

USE ASPHALT FOR MOT TO CREATE ADA ACCESSIBLE RAMPING FROM SIDEWALK TO THE CROSSWALK

SIDEWALK CLOSED PER MT-110.10

USE ASPHALT FOR MOT TO CREATE ADA ACCESSIBLE RAMPING FROM SIDEWALK TO THE CROSSWALK

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON ON EX. SIGNAL POLE

CLOSE RIGHT LANE WITH PB PER MT-95.41

CL EX. R/W GRANT AVENUE

CW

PB

DRUMS @ 5' SPA.

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON ON EX. SIGNAL POLE

PEDESTRIAN DETOUR ROUTE (SIGN PER MT-110.10)

PC STA. 73+66.62

CLOSE RIGHT LANE WITH PB PER MT-95.41

PLACE TEMPORARY PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON ON EX. PEDESTAL

RAMP A2 (OPEN)

RAMP A1 (OPEN)

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3B
# GRANT AVENUE

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.175 TOTAL P.1135

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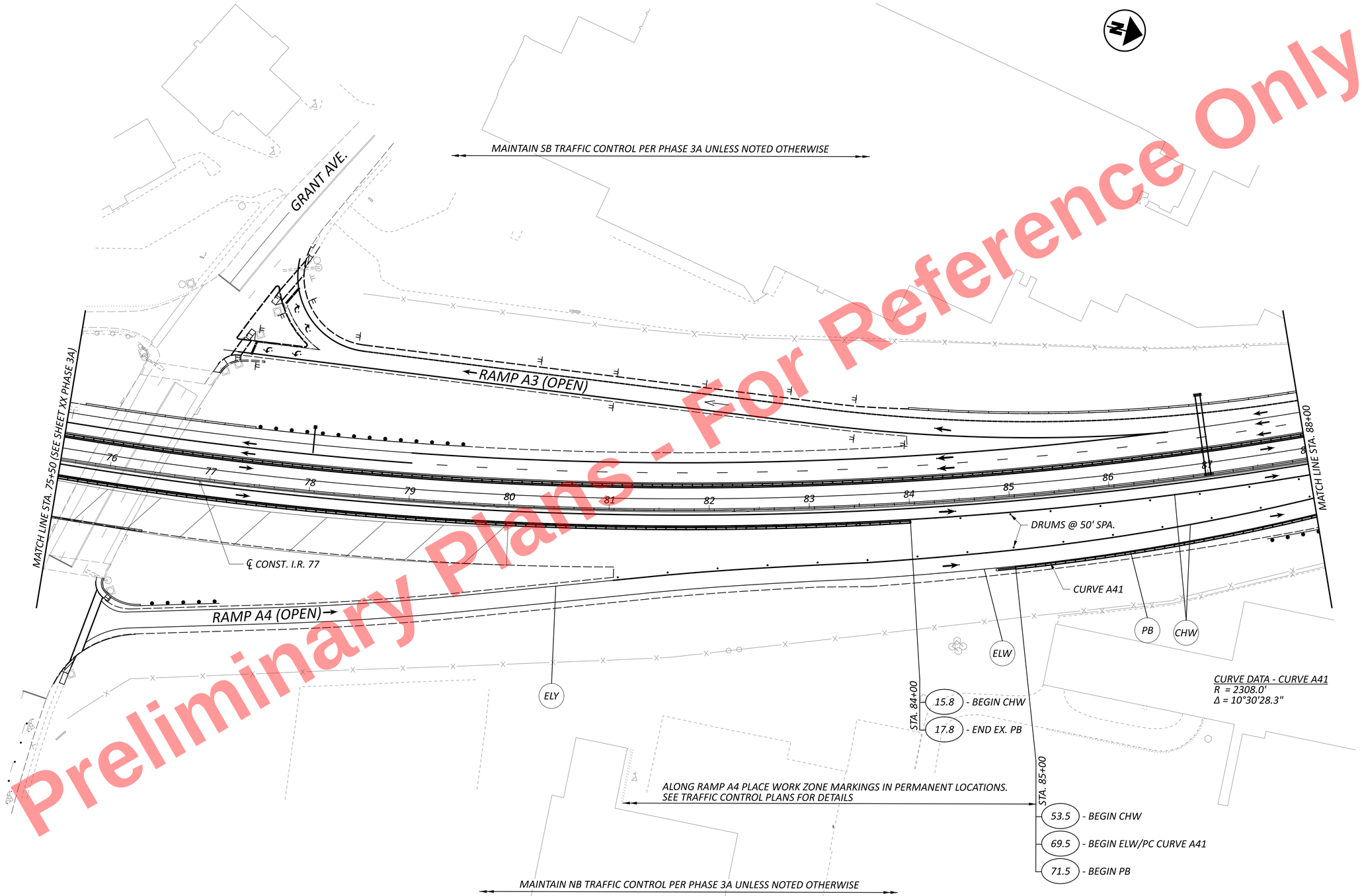
Preliminary Plans - Not For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
## STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.176 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:48:58 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: jammurray@hntb.com
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Preliminary Plans - For Reference Only

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:06:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: janmurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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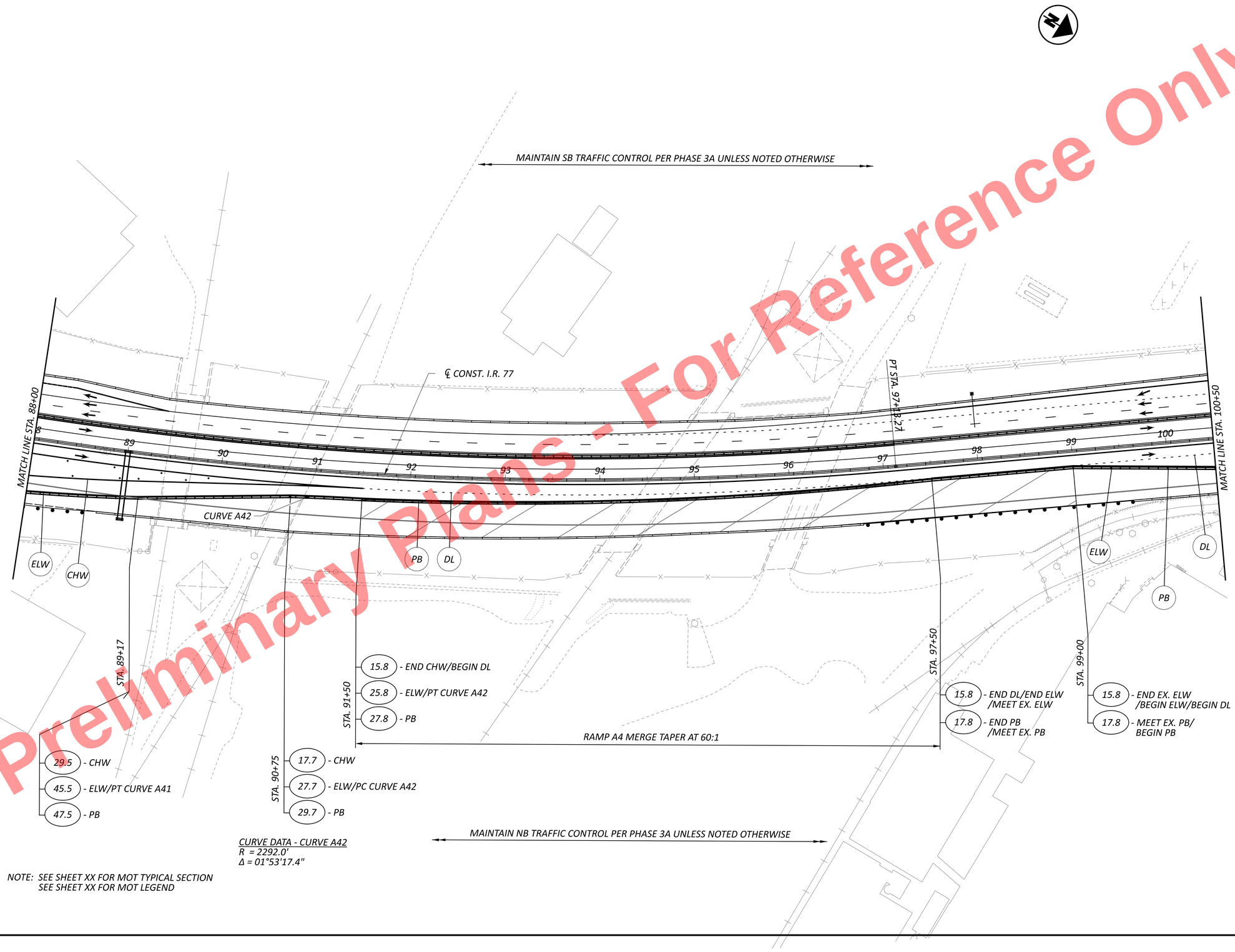
CUY-77-11.43 - PART 1




CURVE DATA - CURVE A42
R = 2292.0'
Δ = 01°53'17.4"

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

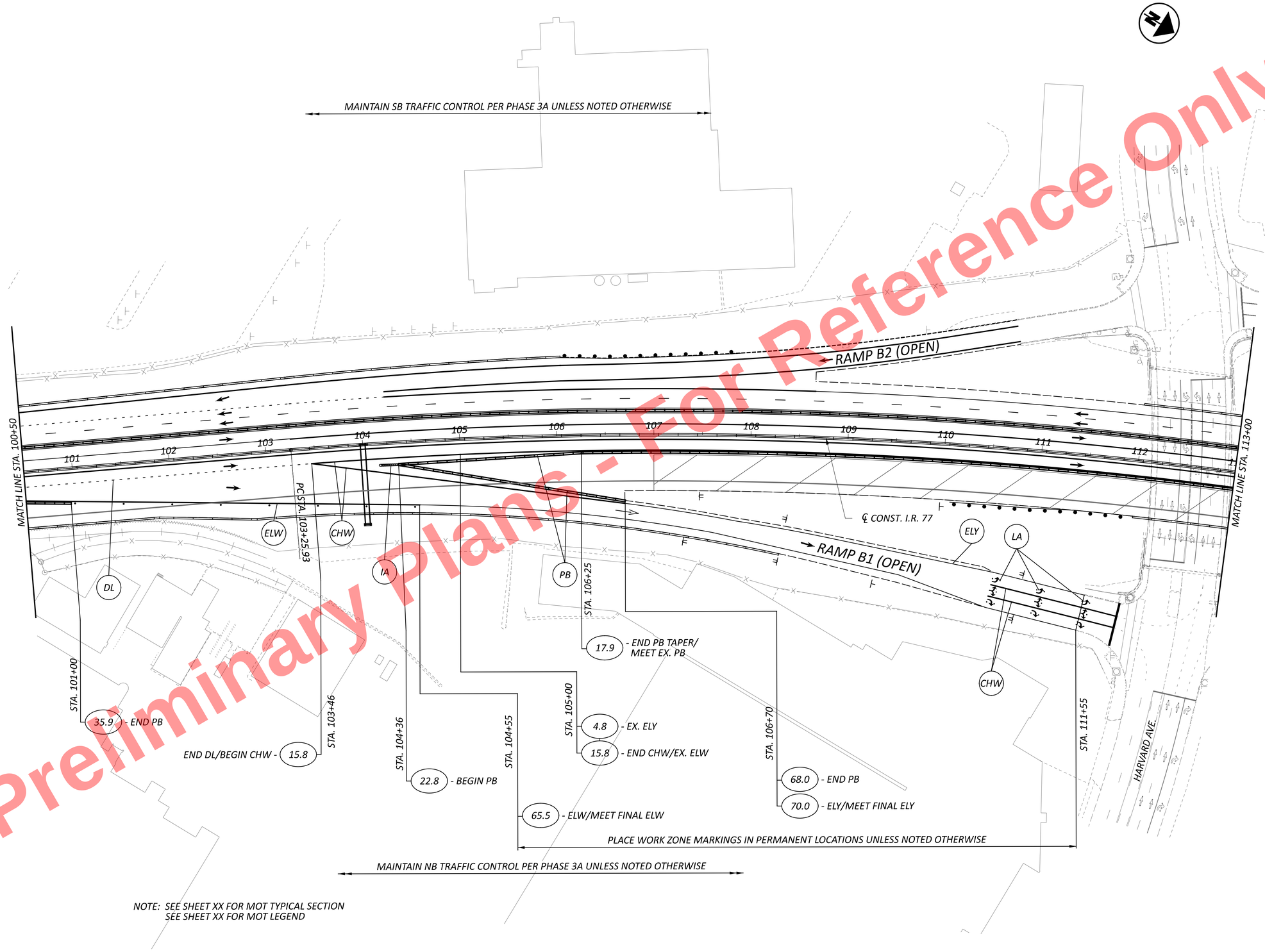
HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
# STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.177 TOTAL P.1135

Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
# STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.178 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:26 PM USER: janmurray
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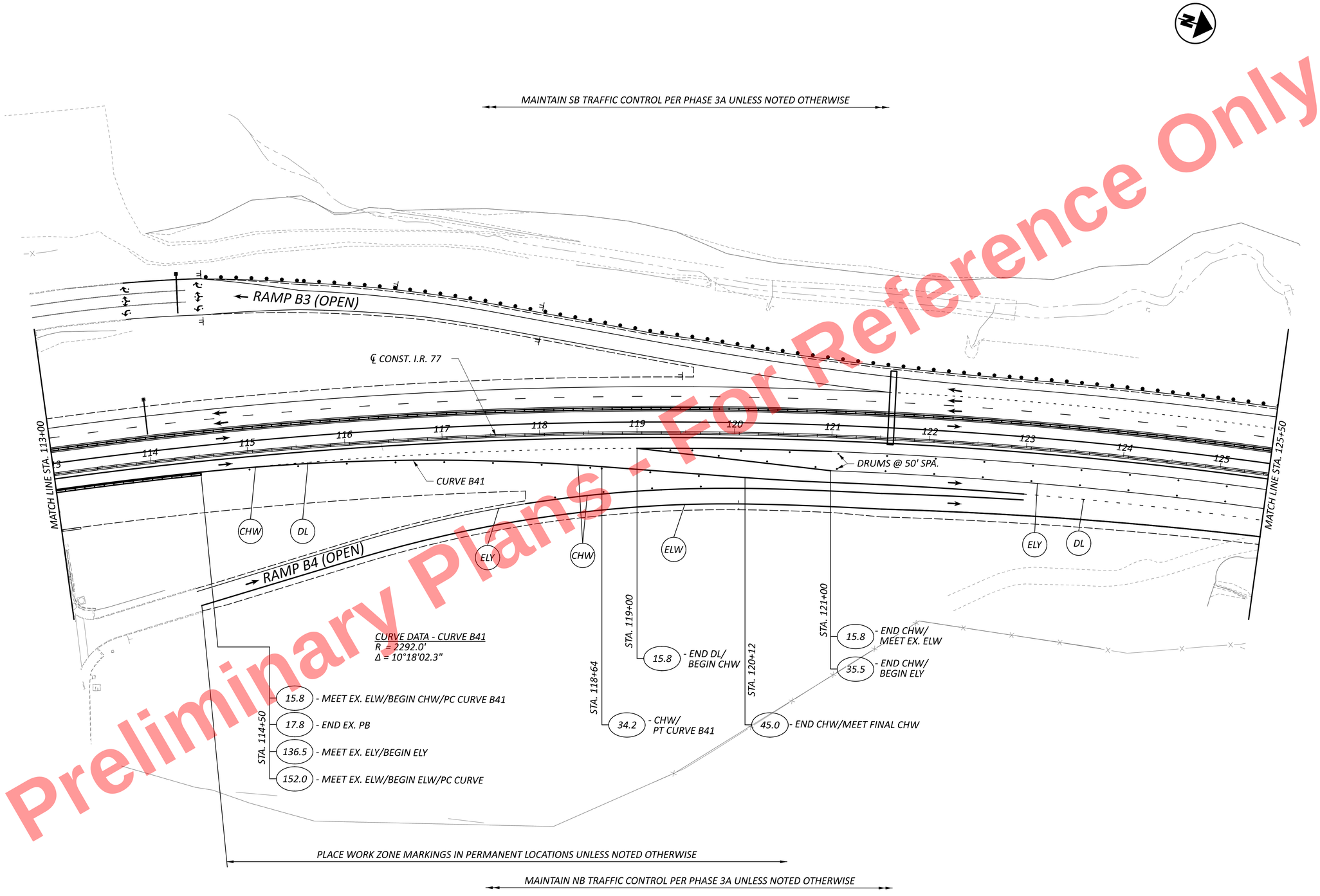


NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
## STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 11/20/25

PROJECT ID
105743

SHEET P.179 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:27 PM USER: janmurray
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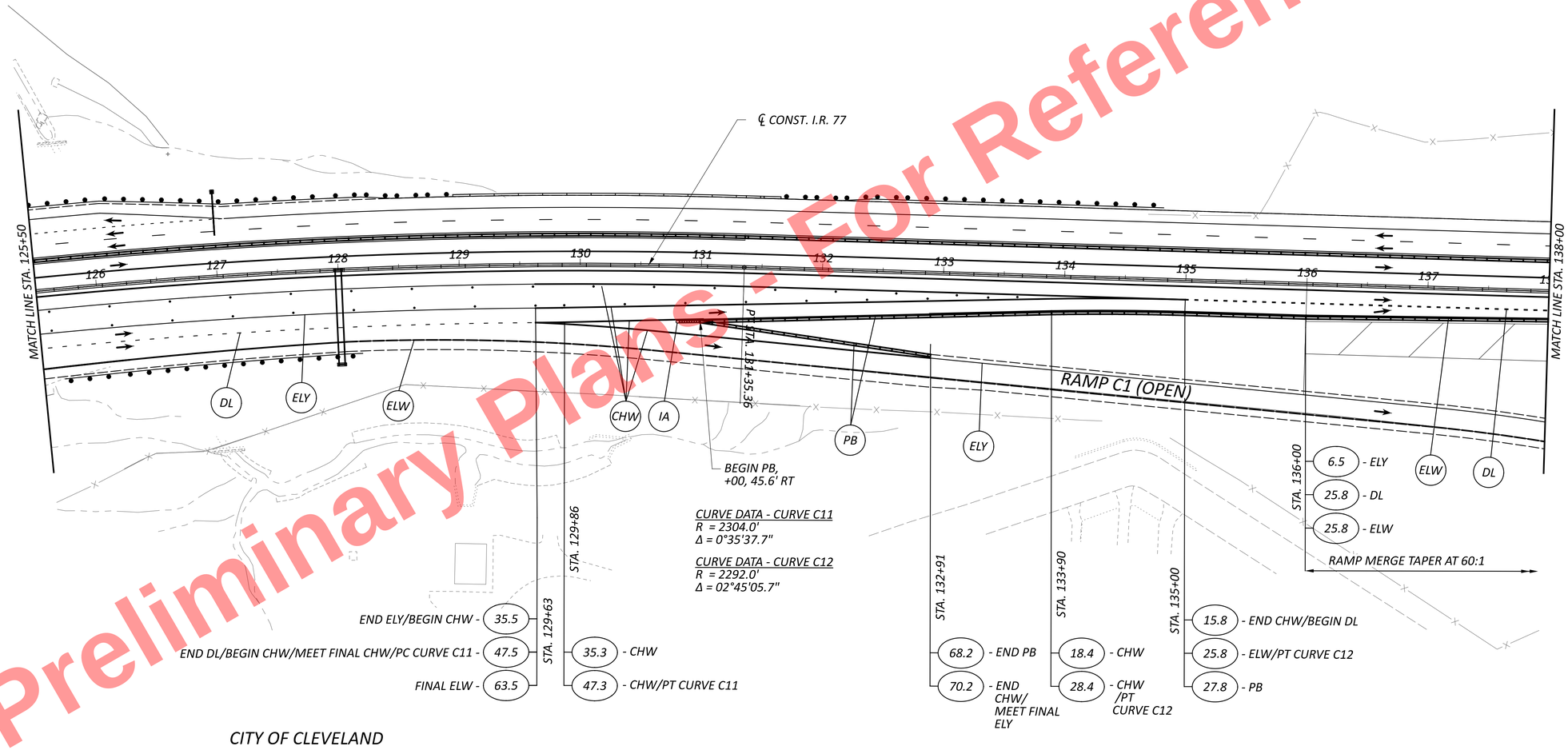
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

VILLAGE OF NEWBURGH HEIGHTS




CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
# STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.180 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:27 PM USER: janmurray
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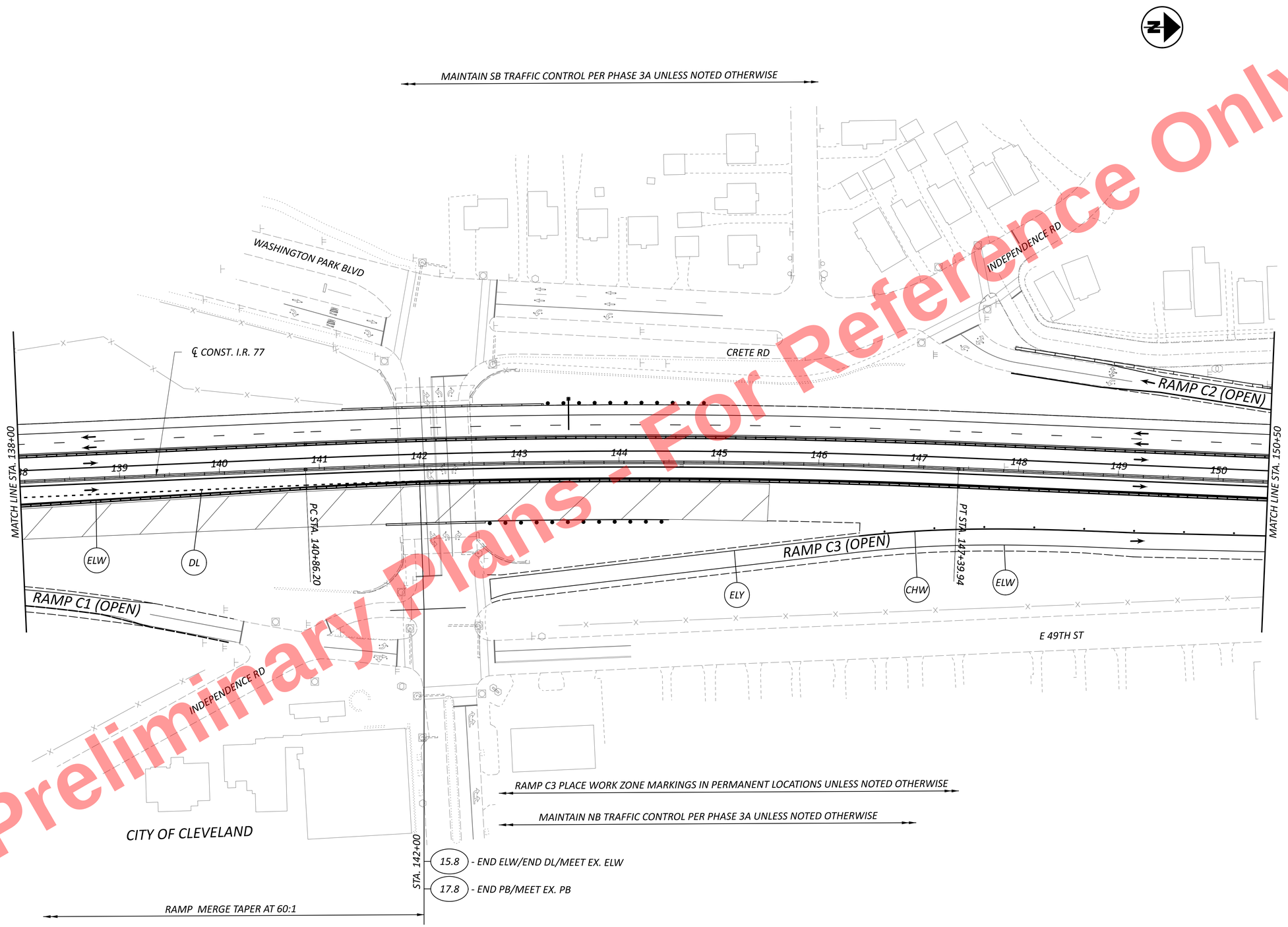
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
## STA. 138+00 TO STA. 150+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:28 PM USER: jammurray
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DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.181 TOTAL P.1135

Preliminary Plans - Not For Reference Only

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:29 PM USER: janmurray
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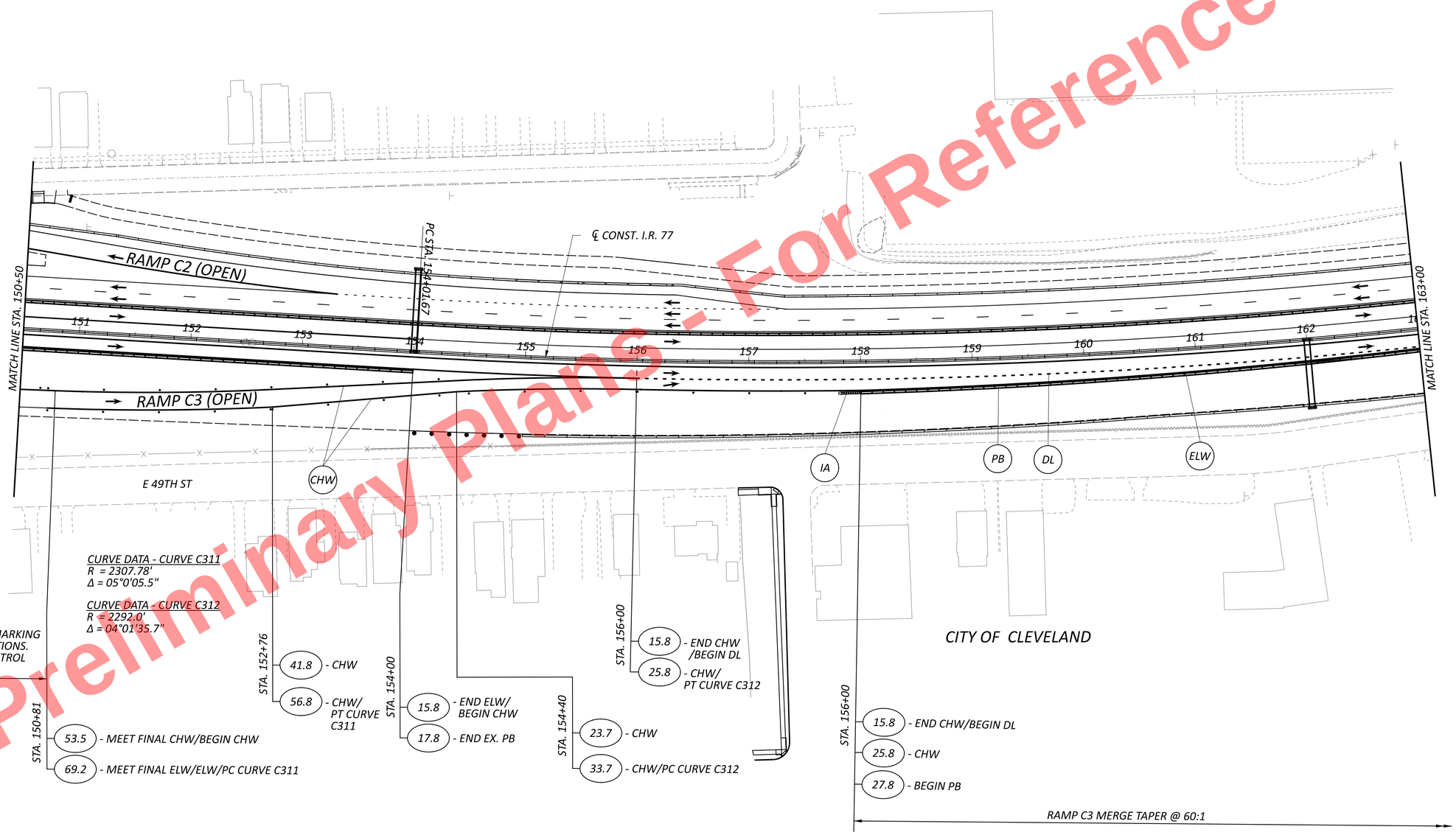
CUY-77-11.43 - PART 1

*MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE*




*CURVE DATA - CURVE C311*
*R = 2307.78'*
*Δ = 05°0'05.5"*

*CURVE DATA - CURVE C312*
*R = 2292.0'*
*Δ = 04°01'35.7"*

*PLACE TEMPORARY MARKING INPERMANENT LOCATIONS. SEE THE TRAFFIC CONTROL PLANS FOR DETAILS*

*STA. 150+81*
- 53.5 - MEET FINAL CHW/BEGIN CHW
- 69.2 - MEET FINAL ELW/ELW/PC CURVE C311

*STA. 152+76*
- 41.8 - CHW
- 56.8 - CHW/ PT CURVE C311

*STA. 154+00*
- 15.8 - END ELW/ BEGIN CHW
- 17.8 - END EX. PB

*STA. 154+40*
- 23.7 - CHW
- 33.7 - CHW/PC CURVE C312

*STA. 156+00*
- 15.8 - END CHW /BEGIN DL
- 25.8 - CHW/ PT CURVE C312

*STA. 156+00*
- 15.8 - END CHW/BEGIN DL
- 25.8 - CHW
- 27.8 - BEGIN PB

*NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION*
*SEE SHEET XX FOR MOT LEGEND*

*MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE*

HORIZONTAL SCALE IN FEET
0 25 50 100

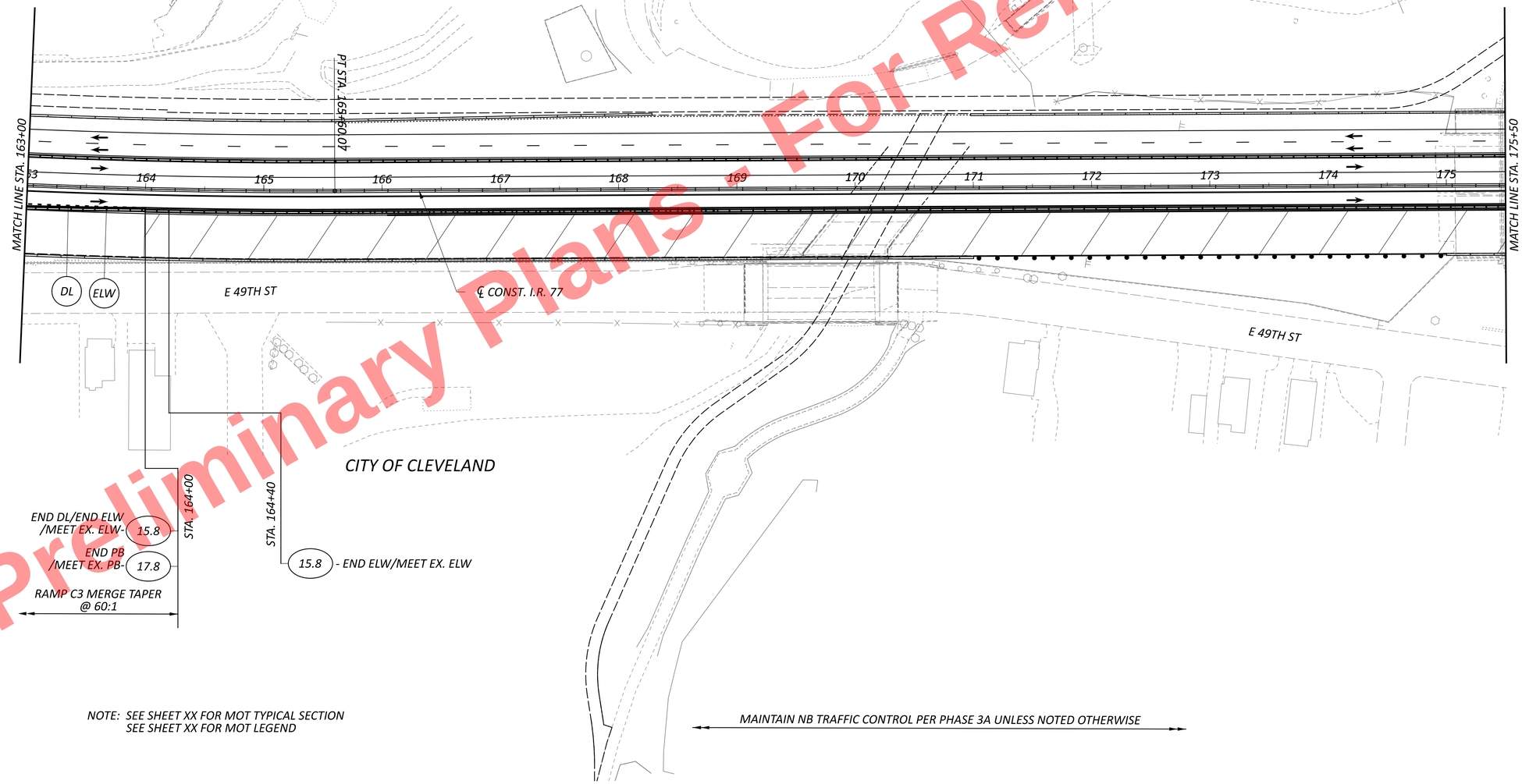
# MAINTENANCE OF TRAFFIC - PHASE 3C
# STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.182 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
## STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.183 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:29 PM USER: janmurray
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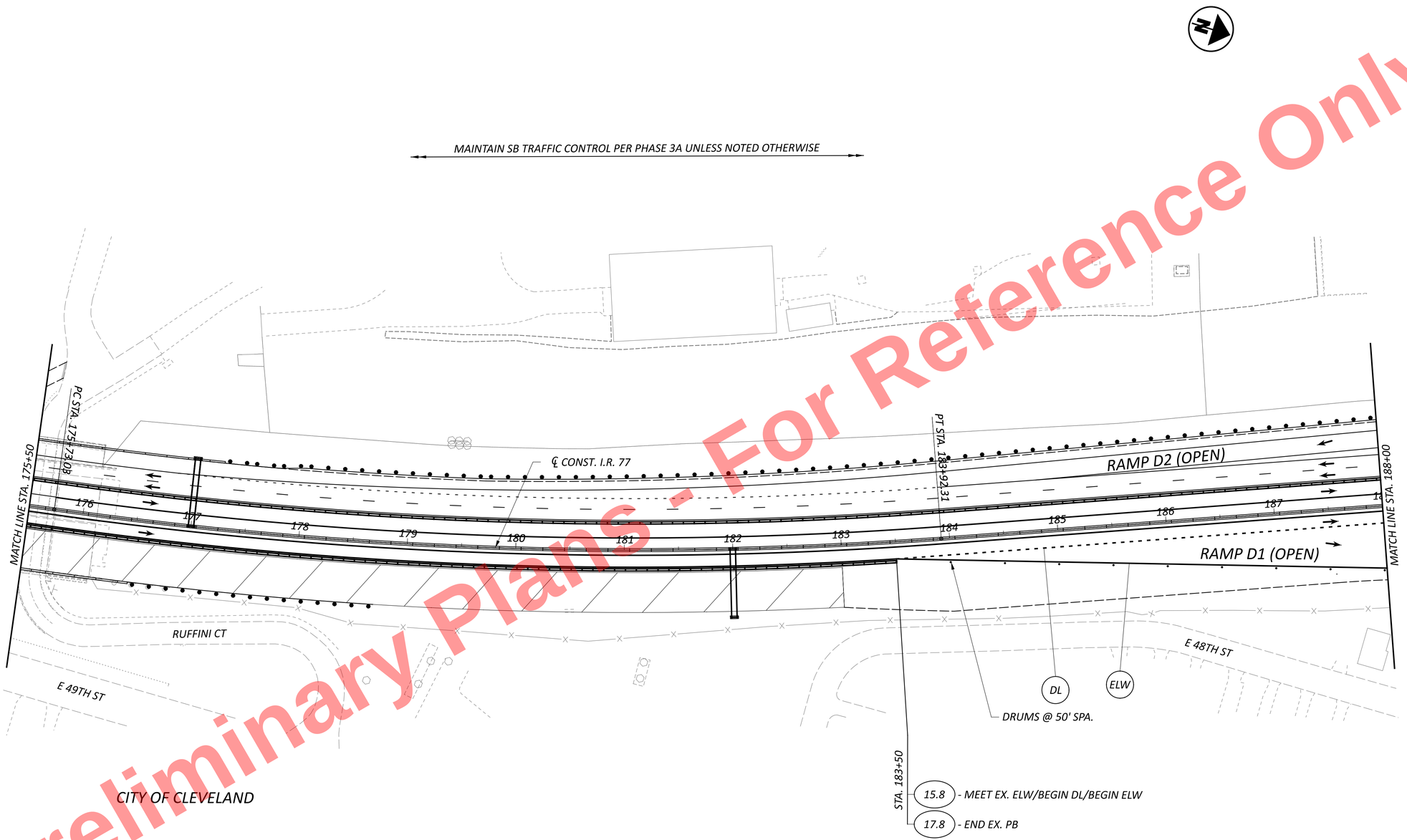
Preliminary Plans - For Reference Only




NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
# STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.184 TOTAL P.1135

CUY-77-11.43 - PART 1

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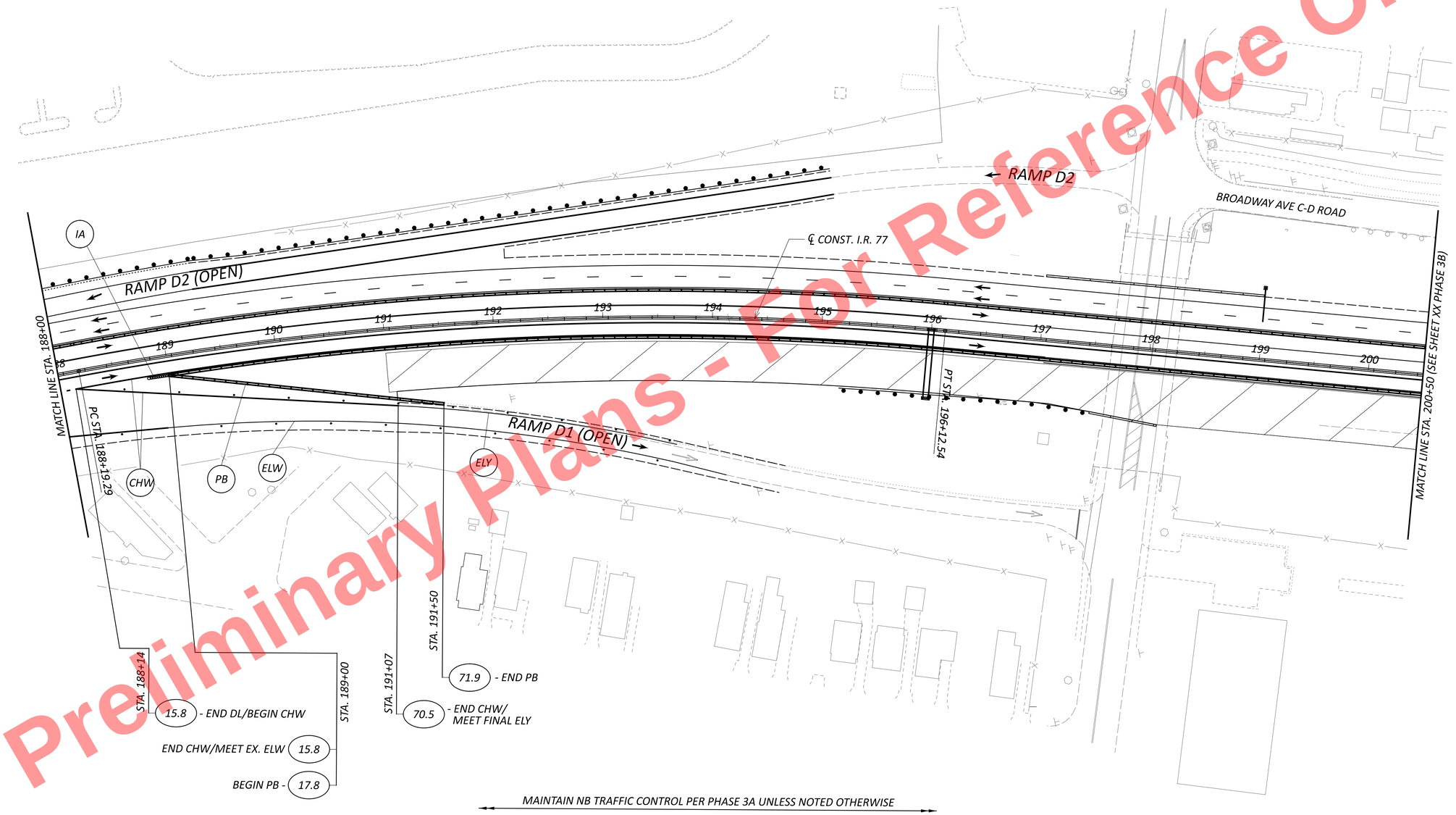
MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE




MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# MAINTENANCE OF TRAFFIC - PHASE 3C
## STA. 188+00 TO STA. 200+50

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 6:03:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: jamurray@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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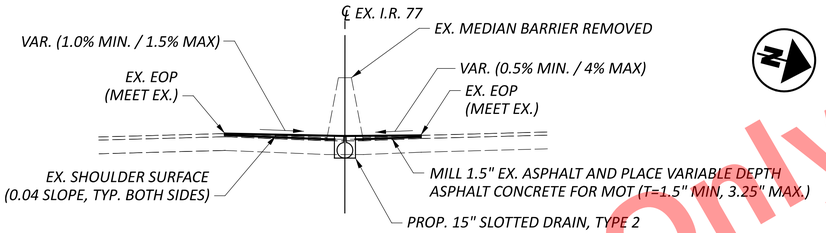
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | JEM |
| REVIEWER | MTR 11/20/25 |
| PROJECT ID | 105743 |
| SHEET | P.185 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




SECTION A-A




(*) - SUBTRACT 0.75" FOR TOP OF SLOT

| STATION | SB EOP ELEV. | NORMAL GUTTER ELEV. PER DM- 1.3 (*) | NB EOP ELEV. |
|---|---|---|---|
| 221+00 | 662.654 | 662.56 | 662.84 |
| 221+25 | 663.413 | 663.32 | 663.573 |
| 221+50 | 664.168 | 664.07 | 664.275 |
| 221+75 | 664.927 | 664.83 | 665.029 |
| 222+00 | 665.696 | 665.6 | 665.808 |
| 222+25 | 666.468 | 666.37 | 666.583 |
| 222+50 | 667.266 | 667.17 | 667.347 |
| 222+75 | 668.065 | 667.97 | 668.111 |
| 223+00 | 668.883 | 668.79 | 668.869 |
| 223+25 | 669.701 | 669.56 | 669.63 |
| 223+50 | 670.551 | 670.41 | 670.463 |
| 223+75 | 671.405 | 671.26 | 671.296 |
| 224+00 | 672.298 | 672.15 | 672.2 |
| 224+25 | 673.208 | 673.06 | 673.108 |
| 224+50 | 673.542 | 673.4 | 673.538 |
| 224+75 | 674.296 | 674.15 | 674.265 |
| 225+00 | 675.05 | 674.9 | 674.986 |
| 225+25 | 675.821 | 675.68 | 675.77 |

HORIZONTAL SCALE IN FEET
0 15 30 60

# MAINTENANCE OF TRAFFIC CROSS OVER DETAIL NORTH PROJECT LIMIT (PHASE 1A SHOWN)

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.186 TOTAL P.1135

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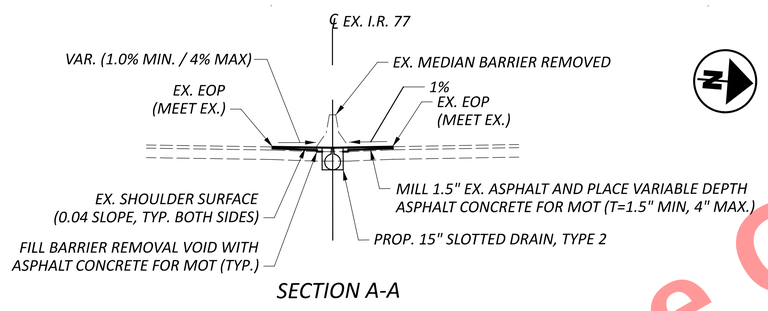
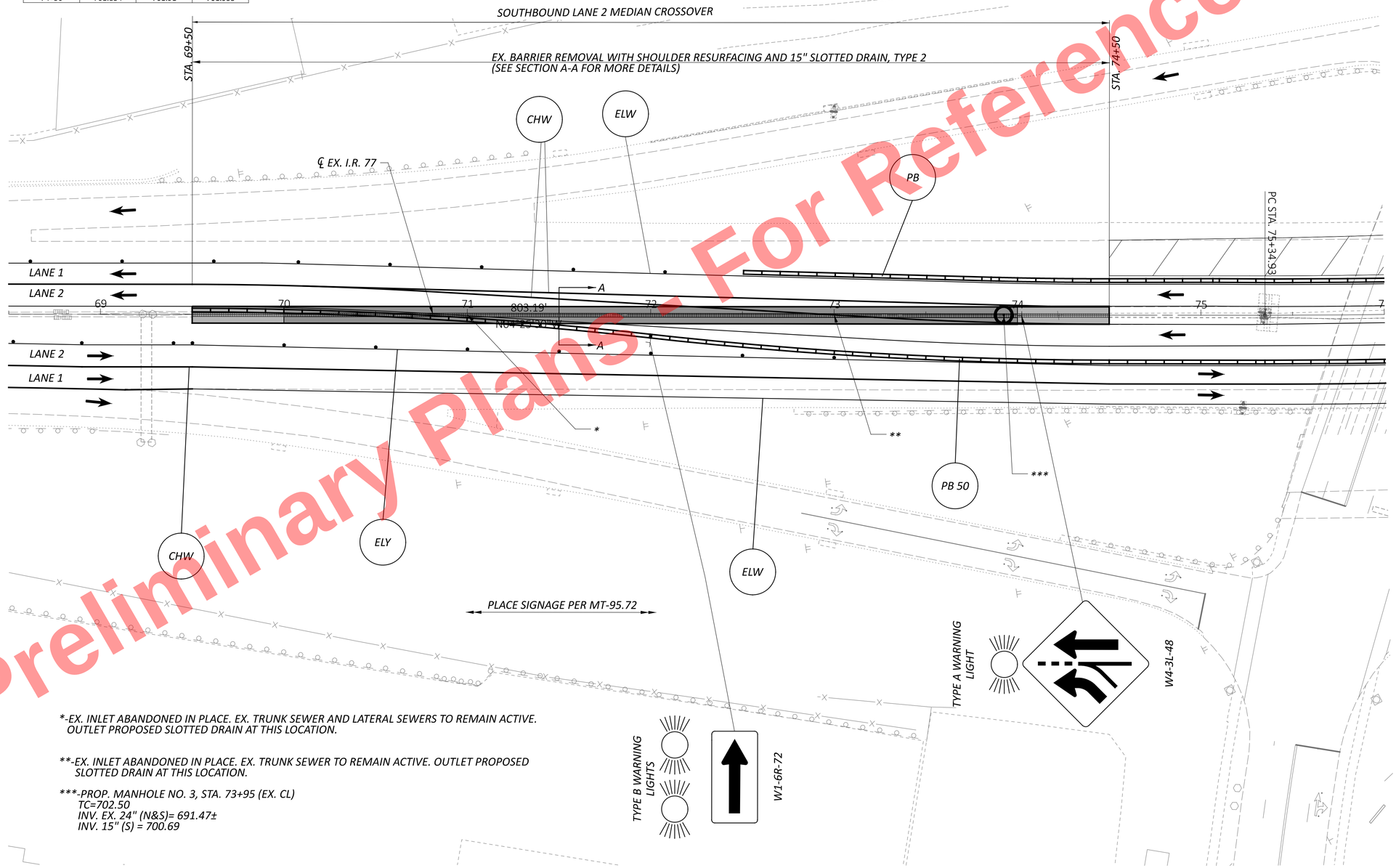
| STATION | SB EOP ELEV. | NORMAL GUTTER ELEV. PER DM-1.3 (*) | NB EOP ELEV. |
|---|---|---|---|
| 69+50 | 707.52 | 707.48 | 707.53 |
| 69+75 | 707.267 | 707.22 | 707.258 |
| 70+00 | 706.941 | 706.90 | 706.977 |
| 70+25 | 706.688 | 706.64 | 706.686 |
| 70+50 | 706.412 | 706.37 | 706.427 |
| 70+75 | 706.15 | 706.08 | 706.124 |
| 71+00 | 705.811 | 705.76 | 705.807 |
| 71+25 | 705.651 | 705.50 | 705.548 |
| 71+50 | 705.378 | 705.22 | 705.264 |
| 71+75 | 705.105 | 704.92 | 704.968 |
| 72+00 | 704.779 | 704.66 | 704.707 |
| 72+25 | 704.541 | 704.41 | 704.458 |
| 72+50 | 704.278 | 704.13 | 704.176 |
| 72+75 | 704.051 | 703.86 | 703.9 |
| 73+00 | 703.698 | 703.53 | 703.569 |
| 73+25 | 703.475 | 703.30 | 703.348 |
| 73+50 | 703.214 | 703.04 | 703.085 |
| 73+75 | 702.931 | 702.79 | 702.829 |
| 74+00 | 702.61 | 702.48 | 702.528 |
| 74+25 | 702.257 | 702.16 | 702.201 |
| 74+50 | 701.854 | 701.91 | 701.955 |

(*) - SUBTRACT 0.75" FOR TOP OF SLOT

SEE SHEET XX FOR PHASE 1A MOT DETAILS
SEE SHEET XX FOR MOT LEGEND




SECTION A-A




*-EX. INLET ABANDONED IN PLACE. EX. TRUNK SEWER AND LATERAL SEWERS TO REMAIN ACTIVE. OUTLET PROPOSED SLOTTED DRAIN AT THIS LOCATION.

**-EX. INLET ABANDONED IN PLACE. EX. TRUNK SEWER TO REMAIN ACTIVE. OUTLET PROPOSED SLOTTED DRAIN AT THIS LOCATION.

***-PROP. MANHOLE NO. 3, STA. 73+95 (EX. CL)
TC=702.50
INV. EX. 24" (N&S)= 691.47±
INV. 15" (S) = 700.69

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 15 30 60

MAINTENANCE OF TRAFFIC CROSS OVER DETAIL
SOUTH PROJECT LIMIT (PHASE 1A SHOWN)

DESIGN AGENCY
HNTB

DESIGNER CLC
REVIEWER MTR 11-20-25
PROJECT ID 105743
SHEET P.187 TOTAL P.1135

CUY-77-11.21

MODEL: CLP_178 - Plan 3 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 5:29:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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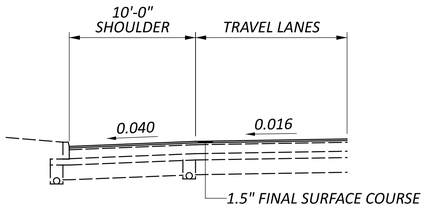
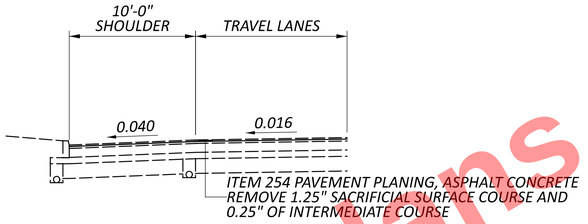
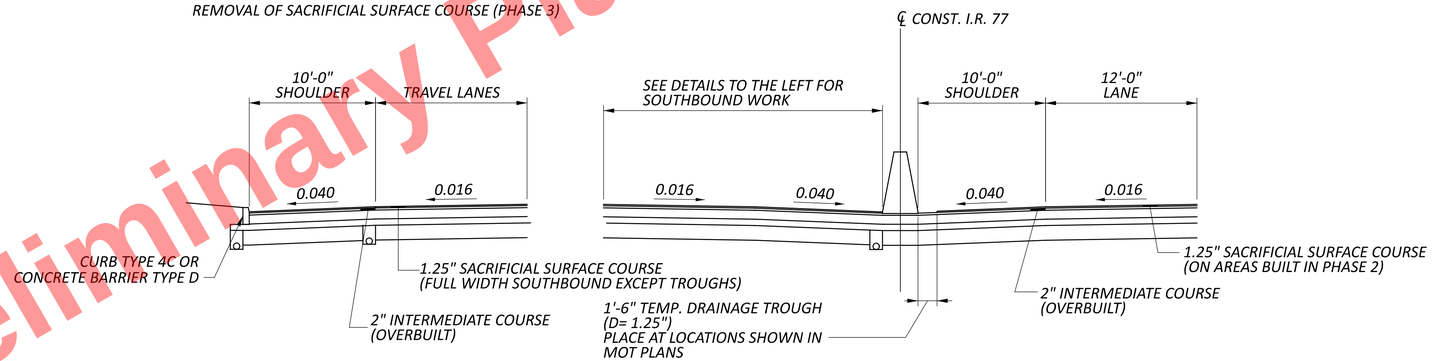
Preliminary Plans - For Reference Only




PLACING FINAL ASPHALT SURFACE COURSE (PHASE 3)




REMOVAL OF SACRIFICIAL SURFACE COURSE (PHASE 3)




NORMAL SECTION - I.R. 77

NORTHBOUND INSIDE SHOULDER AT CONCLUSION OF PHASE 2 MOT
SOUTHBOUND OUTSIDE SHOULDER SACRIFICIAL COURSE (PHASE 1)

MAINTENANCE OF TRAFFIC
MISCELLANEOUS DRAINAGE DETAIL

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 11/20/25
PROJECT ID 105743
SHEET P.188 TOTAL P.1135

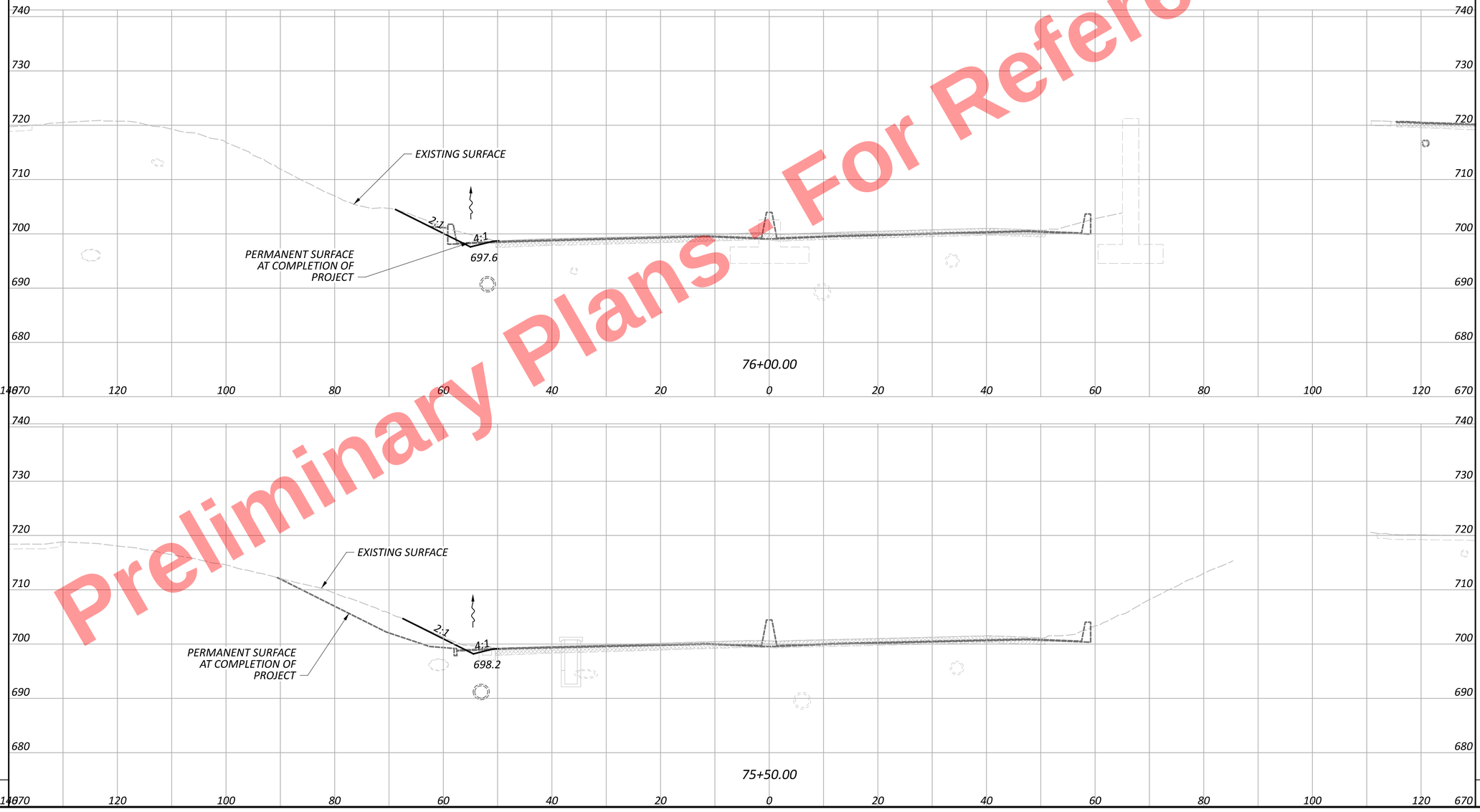
CUY-77-11.43 - PART 1

MODEL: Group 1 - Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:24:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MM003.dgn

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 75+50.0 TO STA. 76+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.189 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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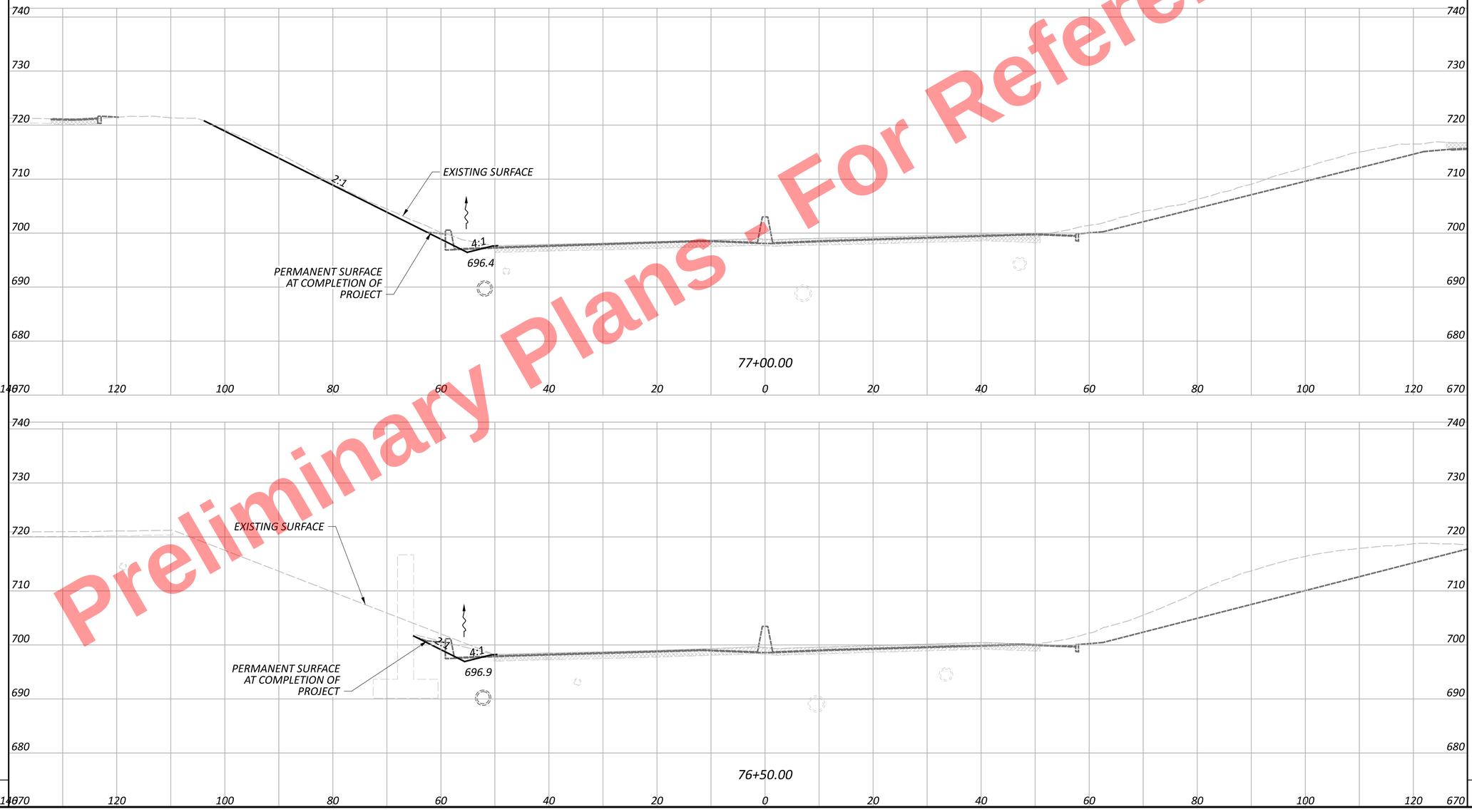
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

Preliminary Plans - For Reference Only

# MOT CROSS SECTIONS - I.R. 77
# STA. 76+50.00 TO STA. 77+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.190 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 76+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:12:05 PM USER: kperkins
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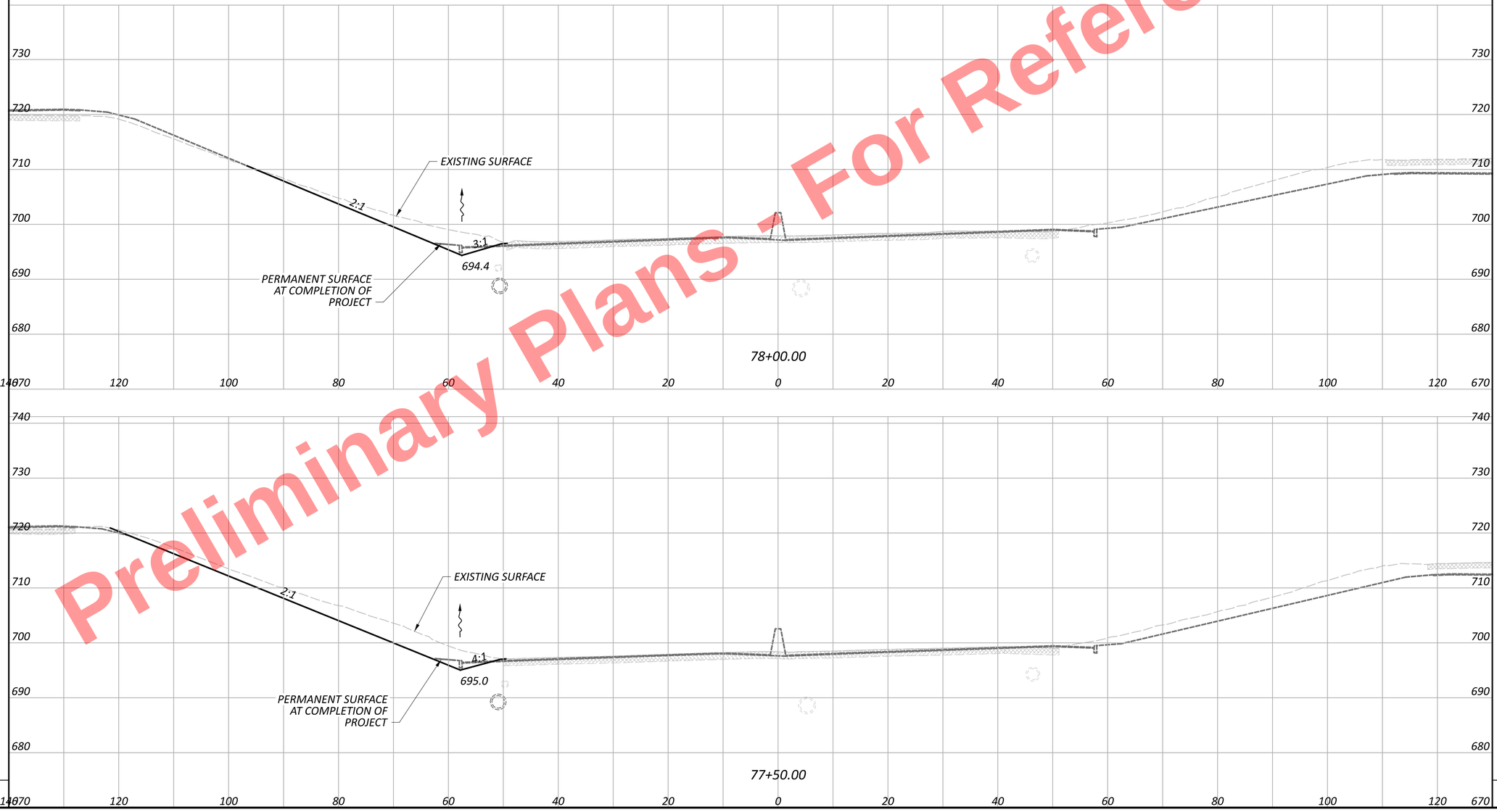
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |

| END AREA | |
|---|---|
| CUT | FILL |
| | |

| VOLUME | |
|---|---|
| CUT | FILL |
| | |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 77+50.00 TO STA. 78+00.00

DESIGN AGENCY
HNTB

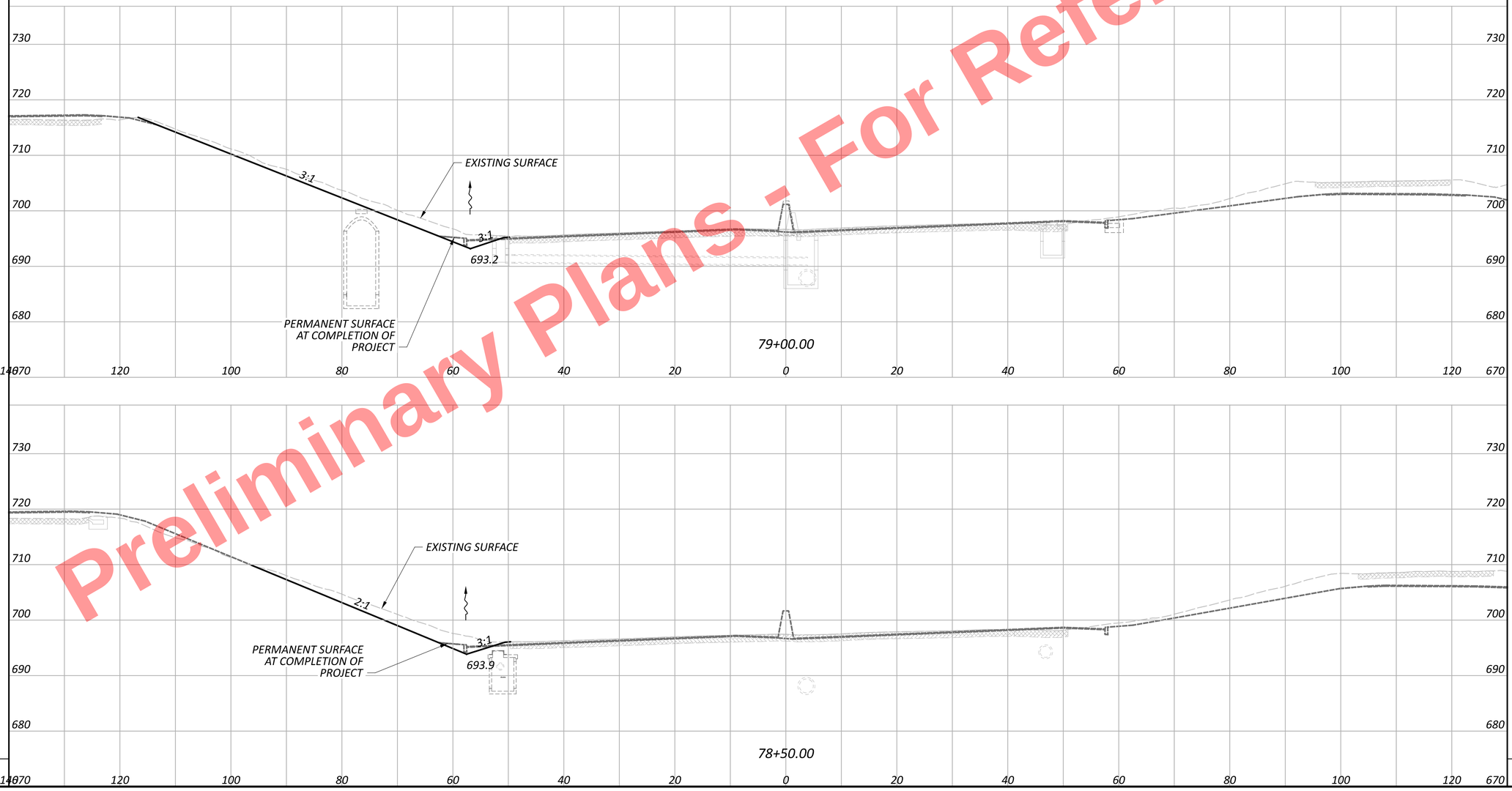
| DESIGNER | |
|---|---|
| AS | |

| REVIEWER | |
|---|---|
| MTR | 10/24/25 |

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.191 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




Preliminary Plans - For Reference Only

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 78+50.00 TO STA. 79+00.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 78+50.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:12:15 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

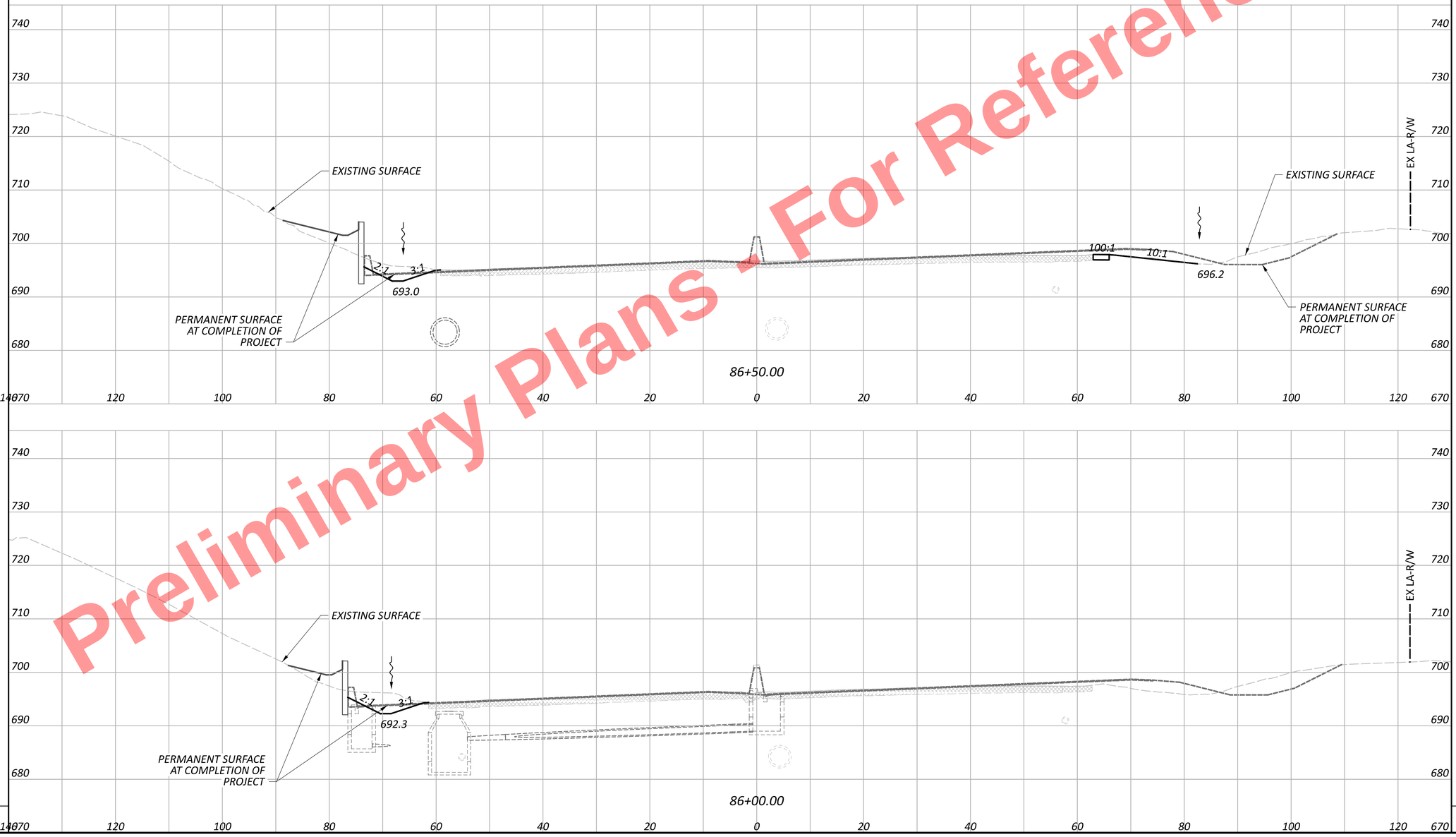
PROJECT ID
105743

SHEET P.192 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - Not For Reference Only

CUY-77-11.43 - PART 1

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MOT CROSS SECTIONS - I.R. 77
STA. 86+00.00 TO STA. 86+50.00

| SHEET TOTAL | | | | SHEET TOTALS | | |
|---|---|---|---|---|---|---|

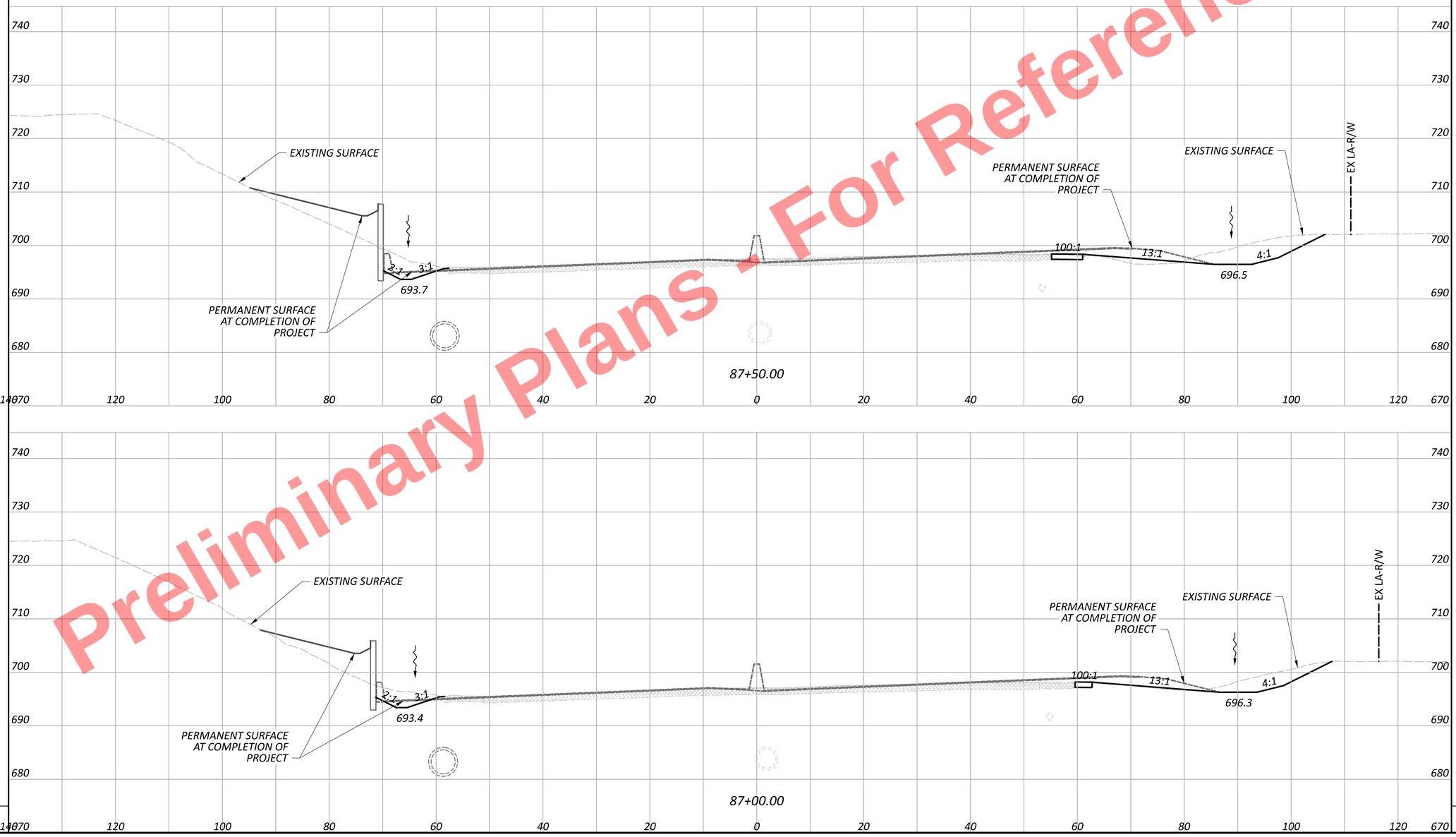
DESIGN AGENCY
HNTB

| DESIGNER | AS |
|---|---|
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.193 |
| TOTAL | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |

| END AREA | |
|---|---|
| CUT | FILL |
| | |

| VOLUME | |
|---|---|
| CUT | FILL |
| | |




Preliminary Plans - For Reference Only

# MOT CROSS SECTIONS - I.R. 77
## STA. 87+00.00 TO STA. 87+50.00

DESIGN AGENCY

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.194 |
| TOTAL | P.1135 |

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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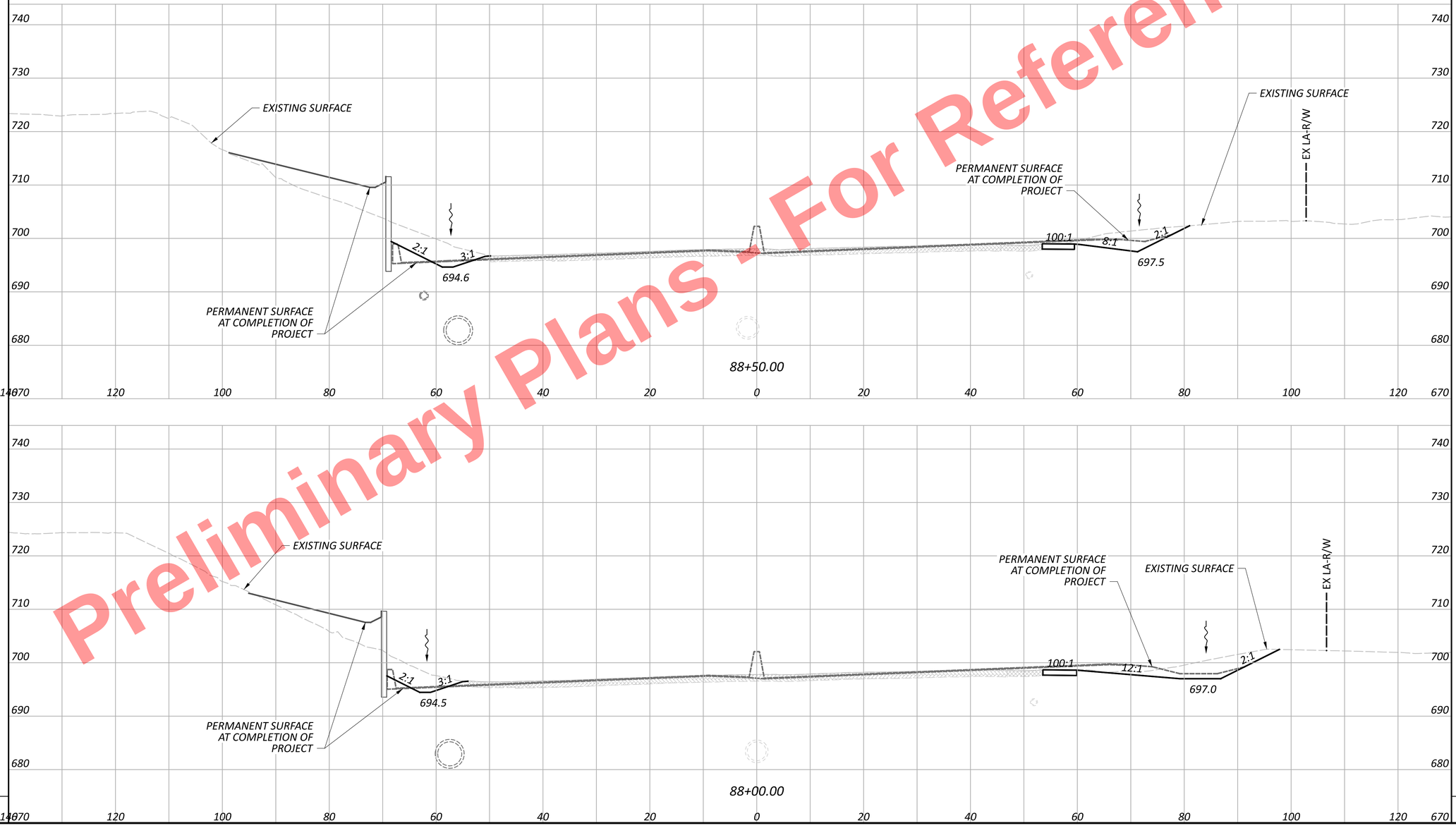
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 88+00.00 TO STA. 88+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 88+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:12:30 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

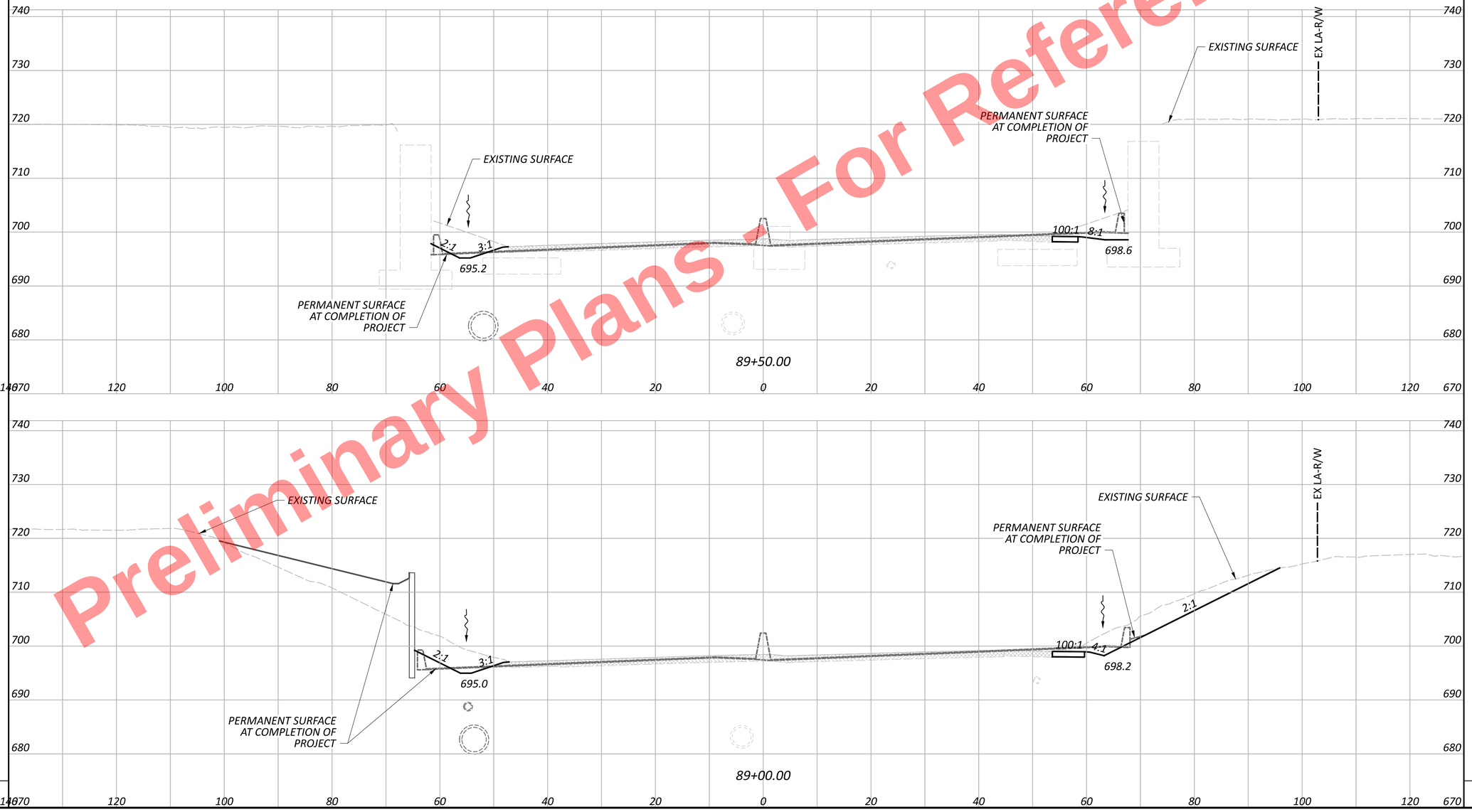
DESIGN AGENCY
HNTB

| DESIGNER | AS |
|---|---|
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.195 |
| TOTAL | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 89+00.00 TO STA. 89+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.196 TOTAL P.1135

SHEET TOTALS

SHEET TOTAL

CUY-77-11.43 - PART 1

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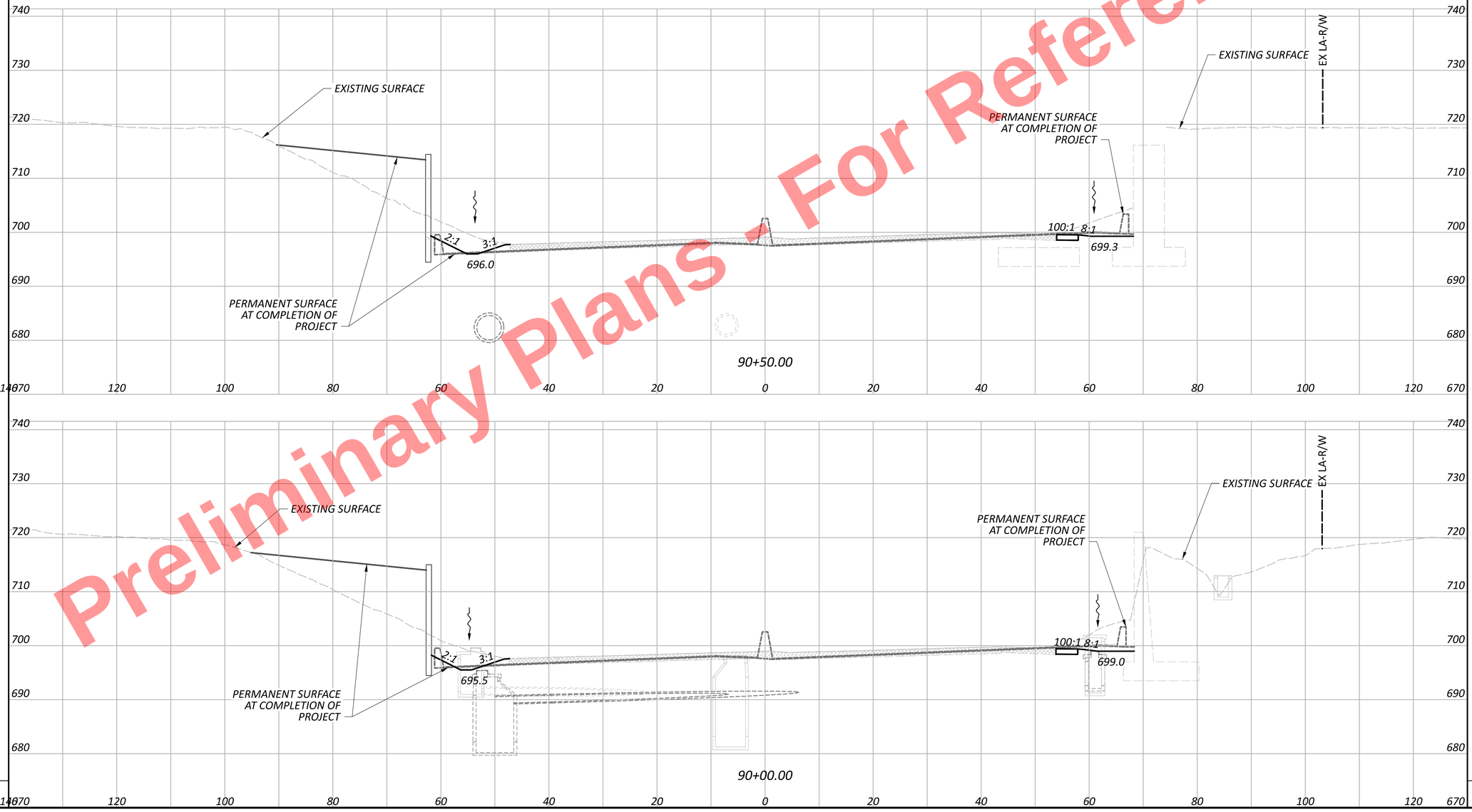
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 90+00.00 TO STA. 90+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.197 | TOTAL P.1135

SHEET TOTALS

SHEET TOTAL

CUY-77-11.43 - PART 1

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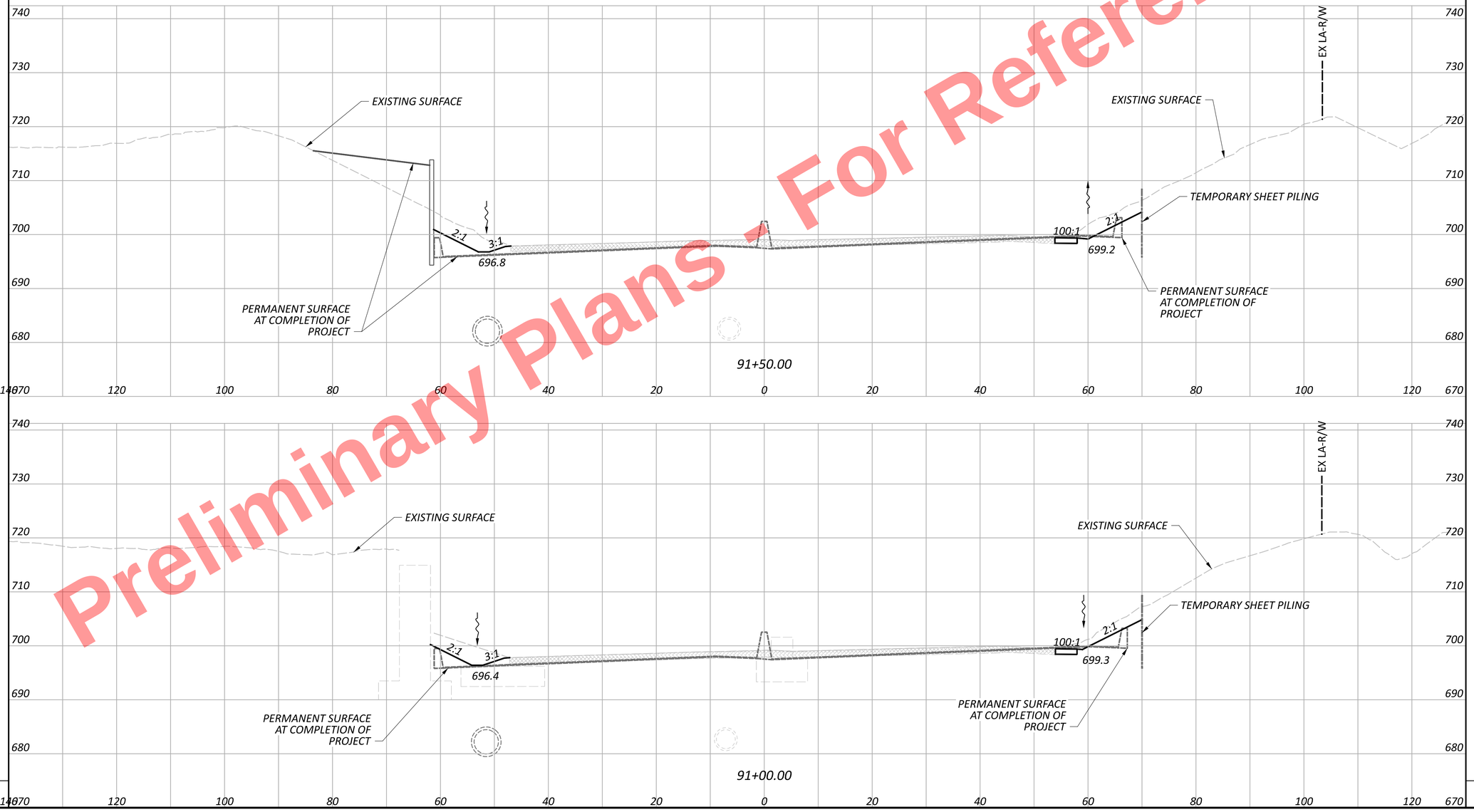
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 91+00.00 TO STA. 91+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.198 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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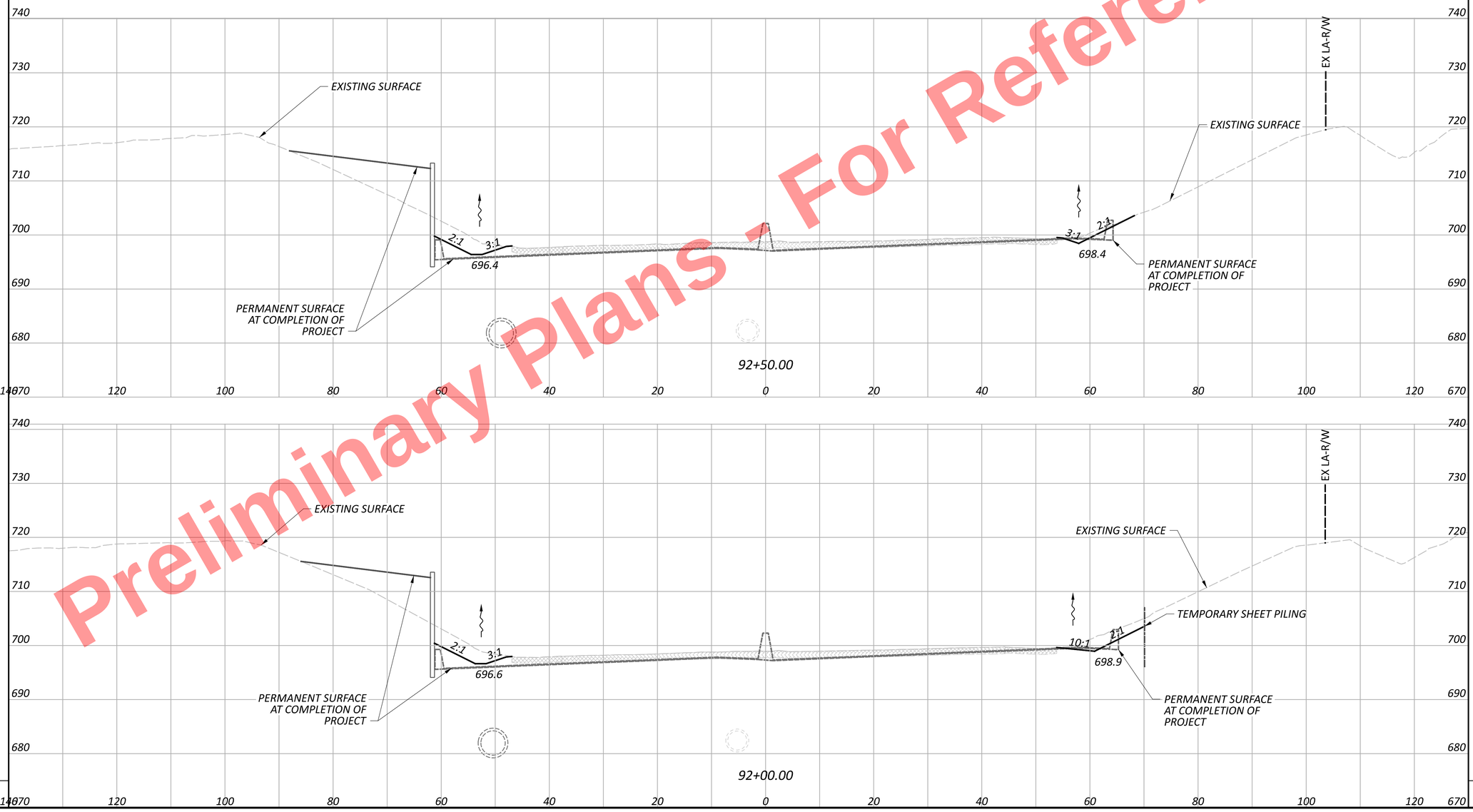
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MOT CROSS SECTIONS - I.R. 77
STA. 92+00.00 TO STA. 92+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.199 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

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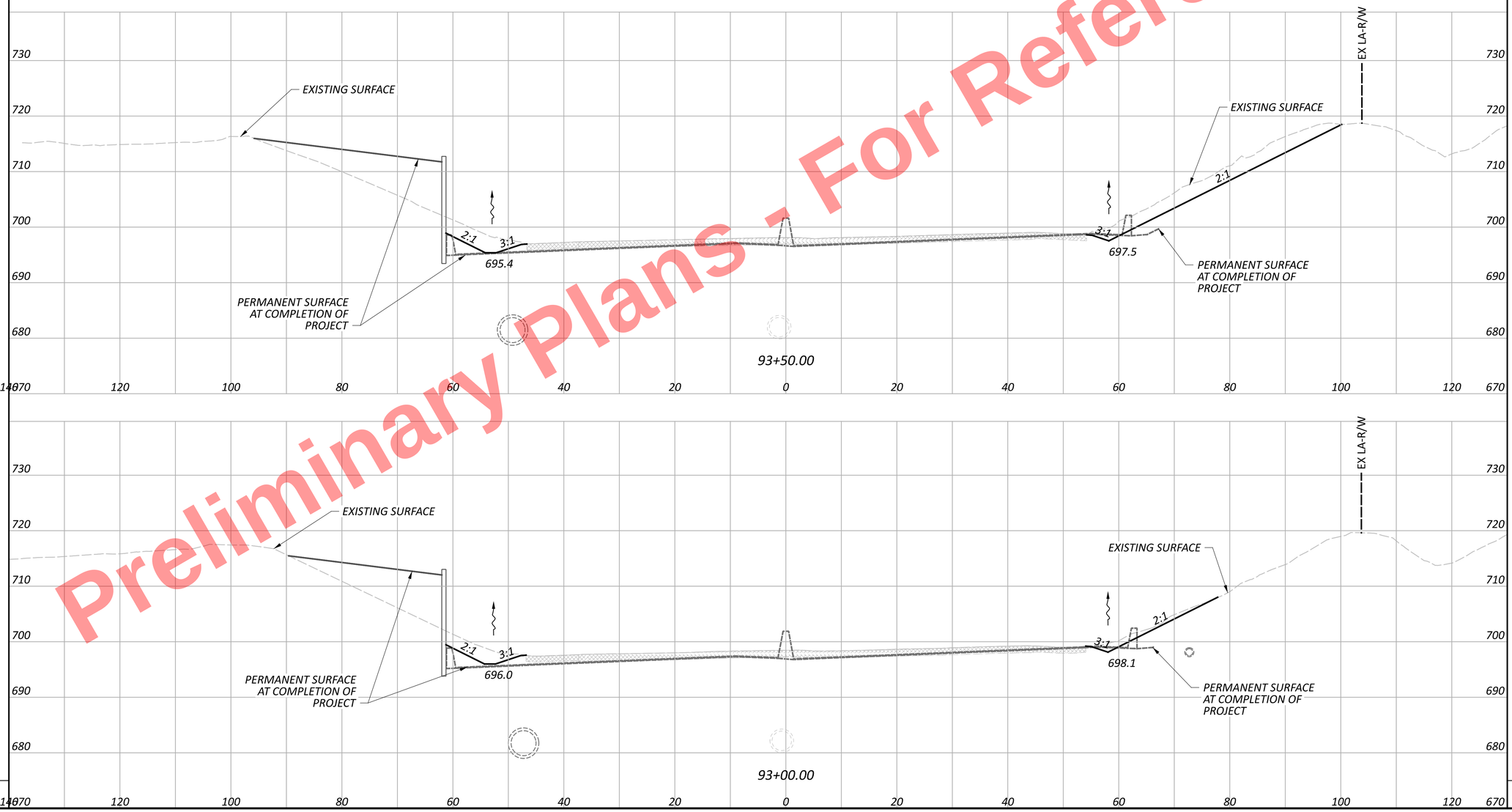
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 93+00.00 TO STA. 93+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.200 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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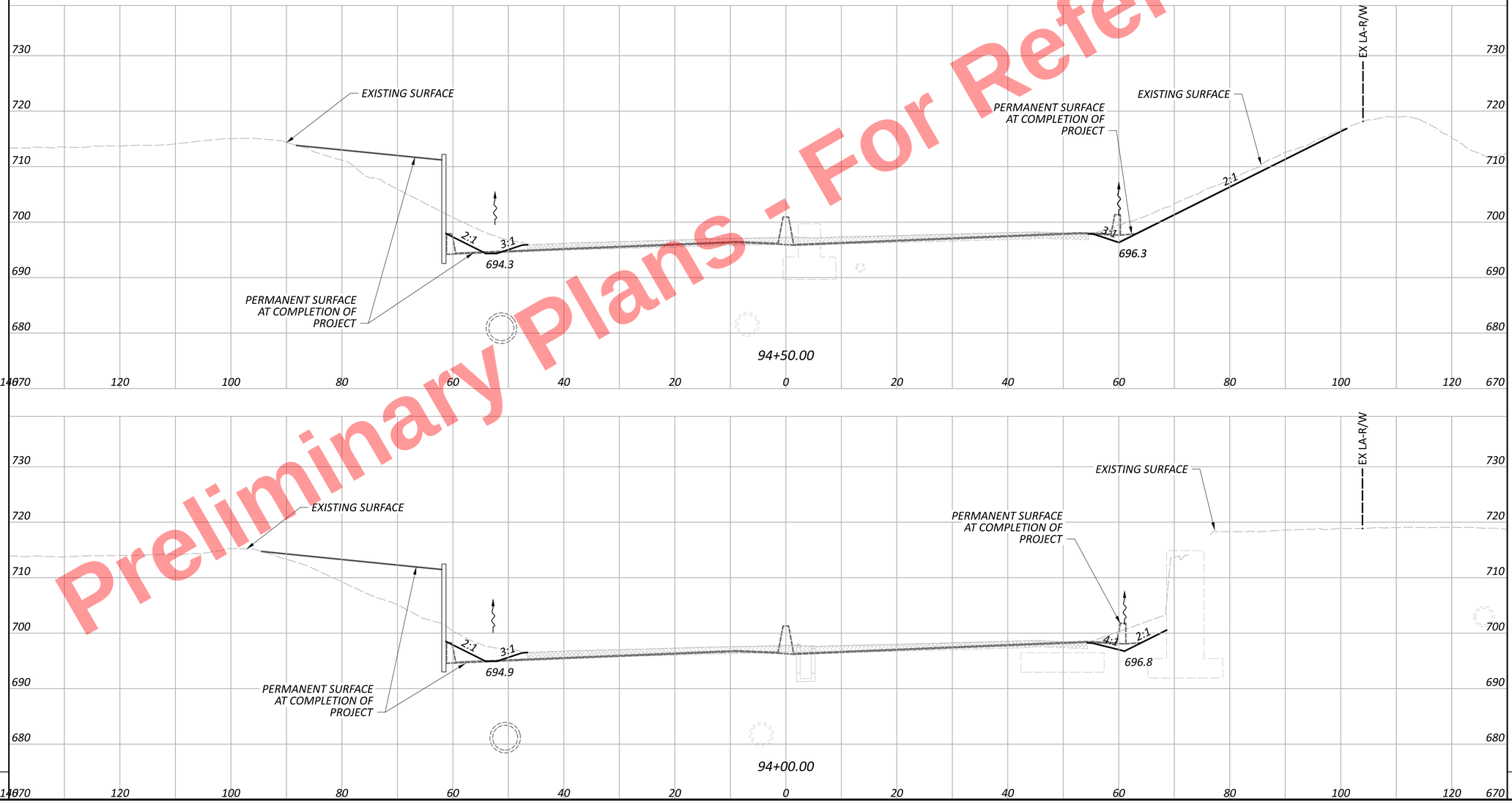
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 94+00.00 TO STA. 94+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.201 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 94+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:12:55 PM USER: kperkins
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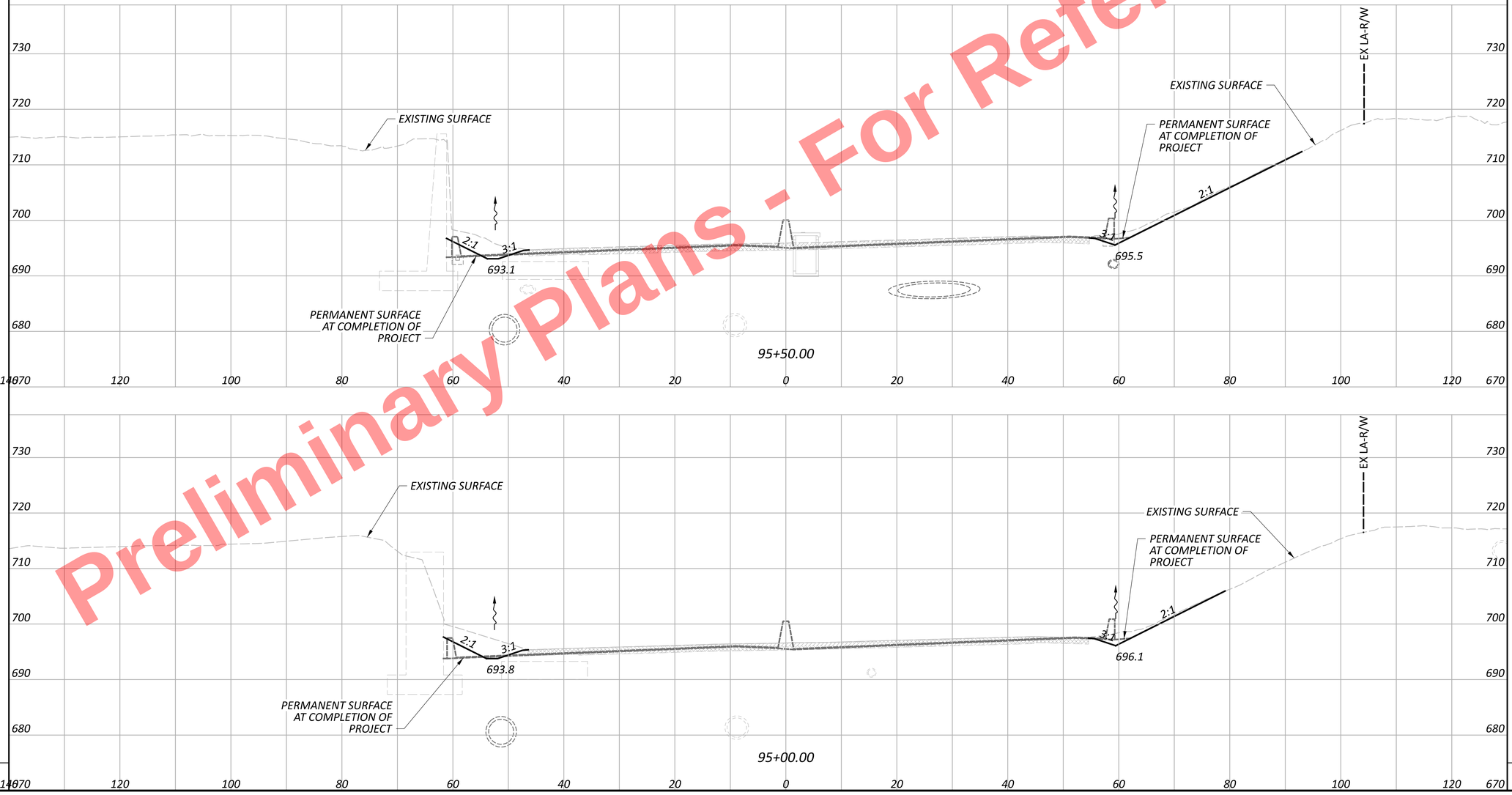
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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MOT CROSS SECTIONS - I.R. 77
STA. 95+00.00 TO STA. 95+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.202 TOTAL P.1135

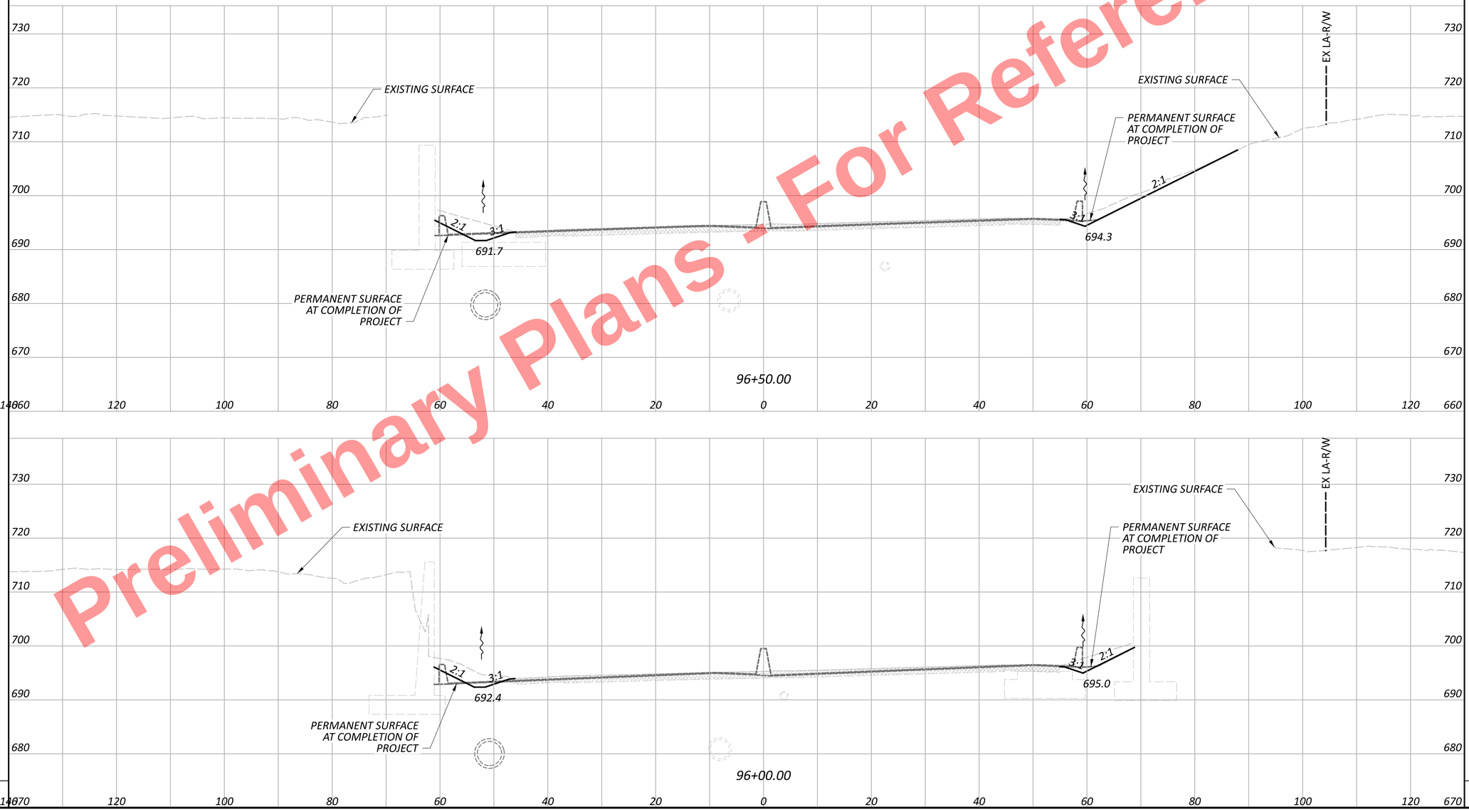
SHEET TOTAL

SHEET TOTALS

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |

| END AREA | |
|---|---|
| CUT | FILL |
| | |

| VOLUME | |
|---|---|
| CUT | FILL |
| | |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 96+00.00 TO STA. 96+50.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR | 10/24/25 |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.203 | P.1135 |

CUY-77-11.43 - PART 1

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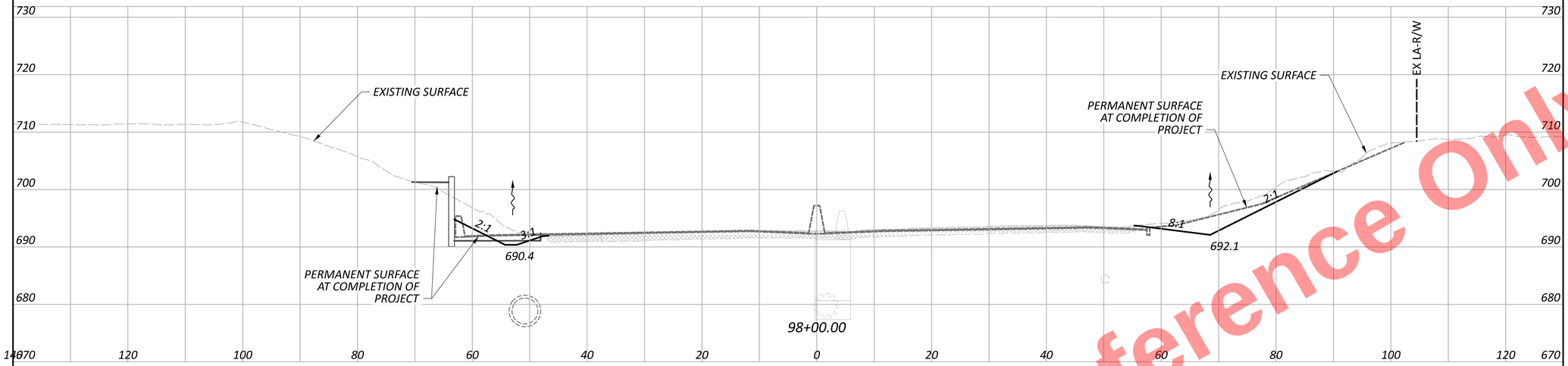
SHEET TOTAL

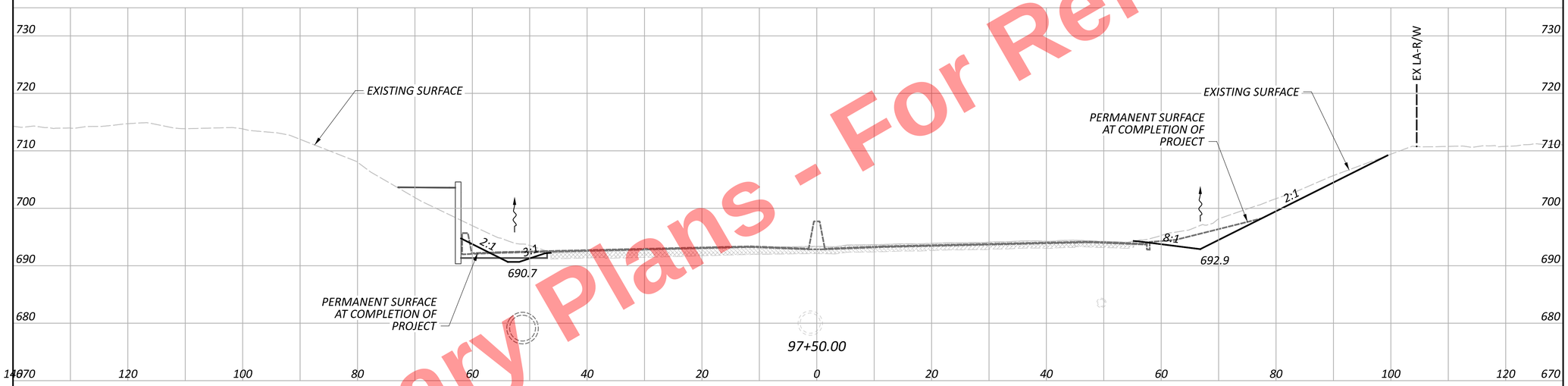
SHEET TOTALS

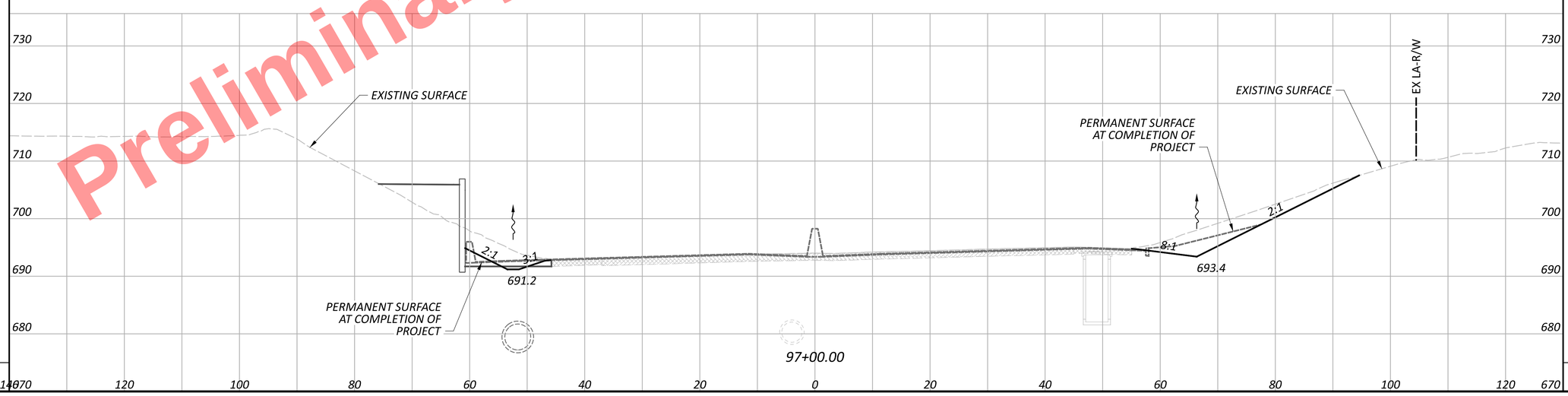
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

# MOT CROSS SECTIONS - I.R. 77
# STA. 97+00.00 TO STA. 98+00.00

DESIGN AGENCY
HNTB

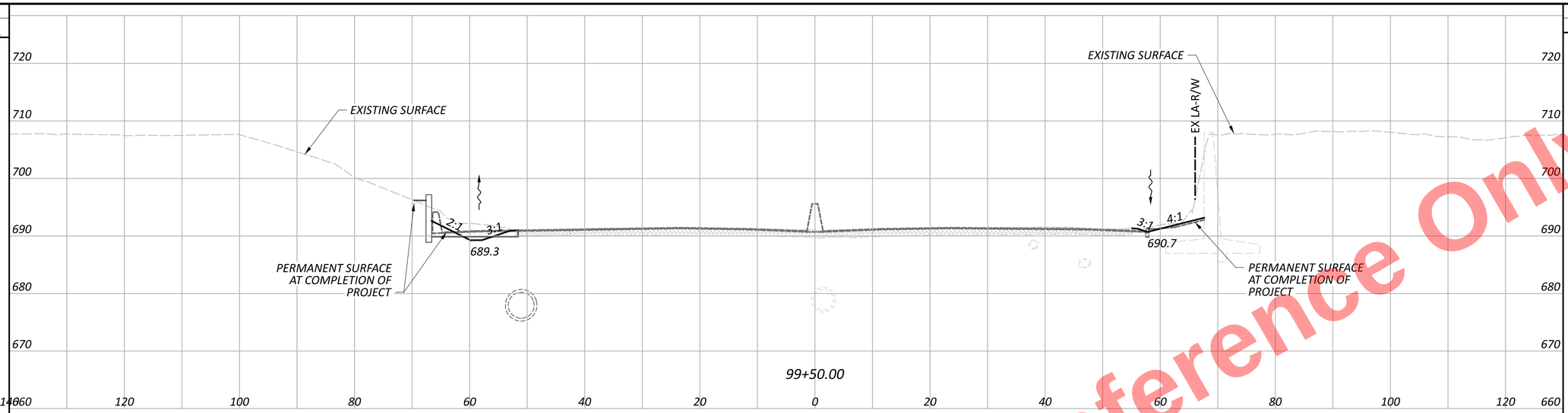
DESIGNER
AS

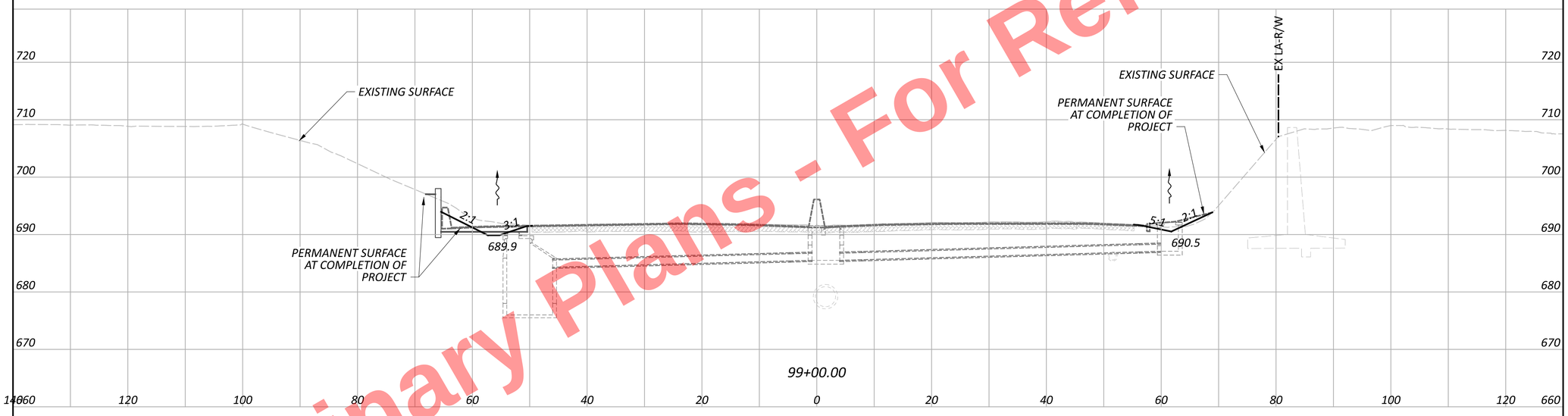
REVIEWER
MTR 10/24/25

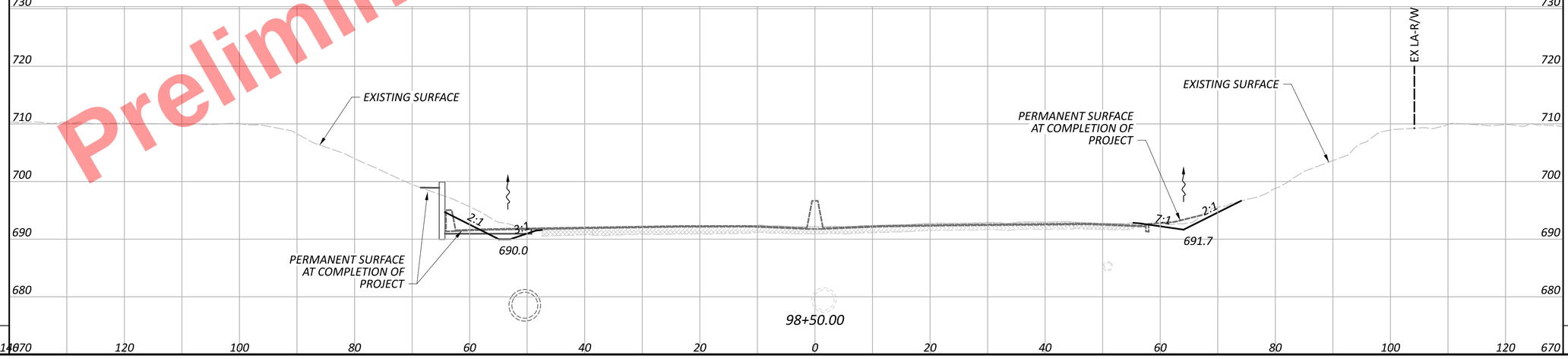
PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.204 | P.1135 |

| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 98+50.00 TO STA. 99+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 98+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:13:12 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

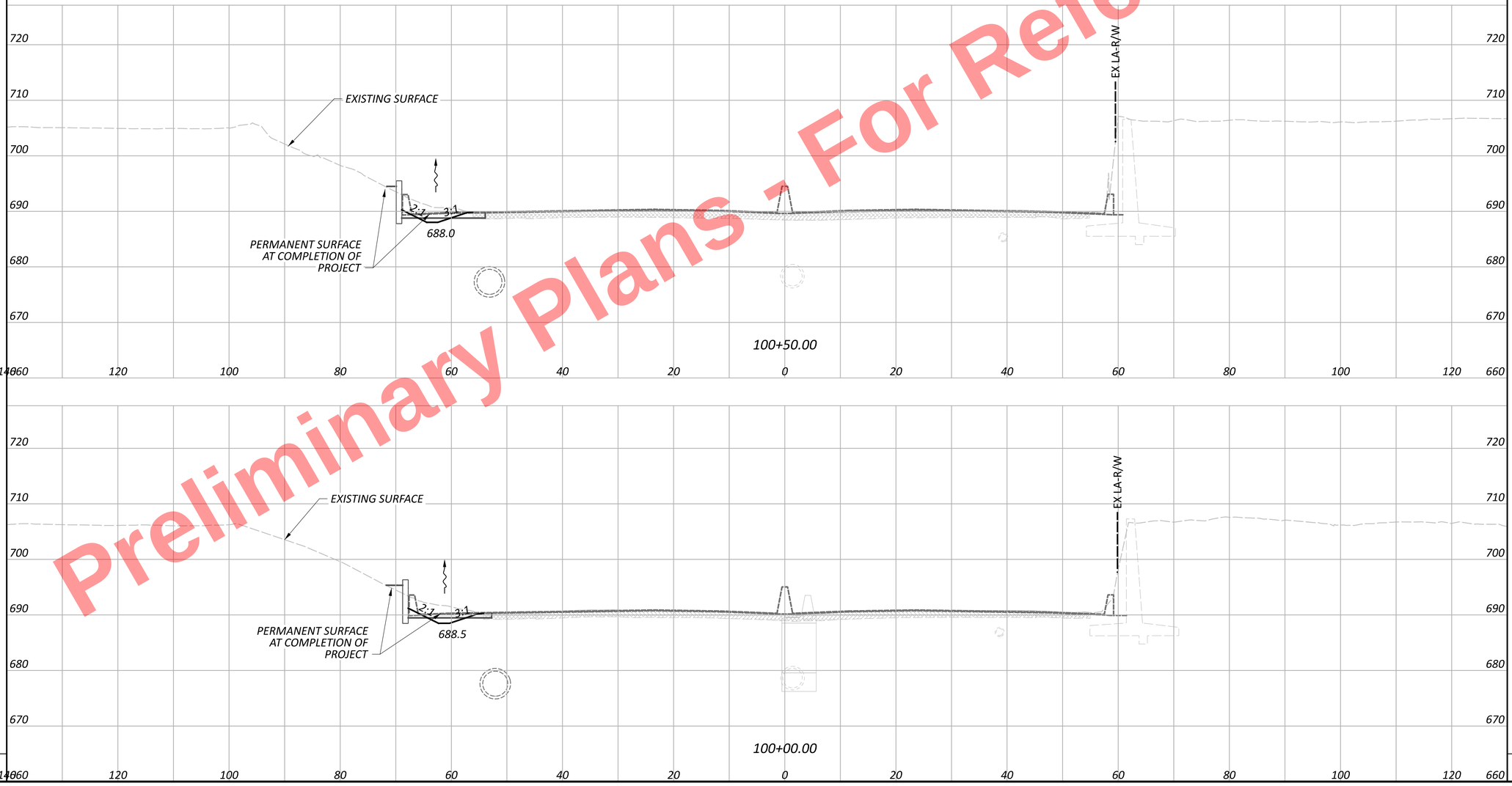
PROJECT ID
105743

SHEET P.205 TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - Not For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 100+00.00 TO STA. 100+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.206 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 100+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:13:18 PM USER: kperkins
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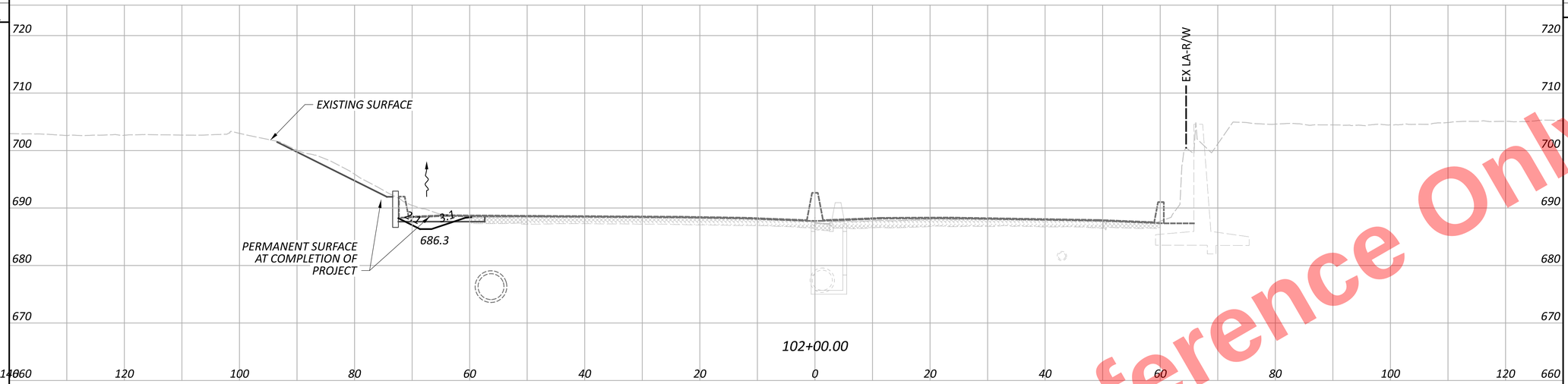
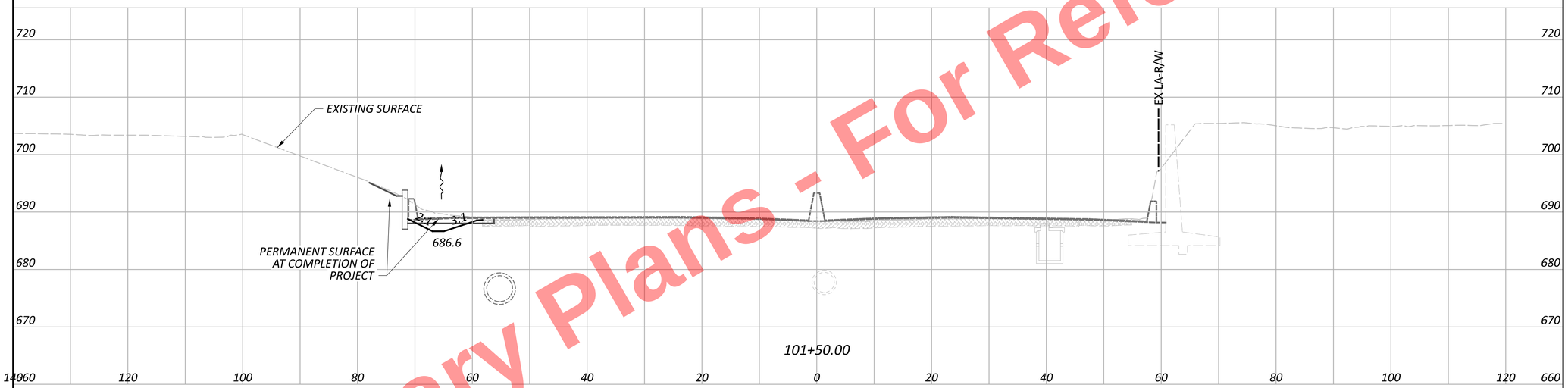
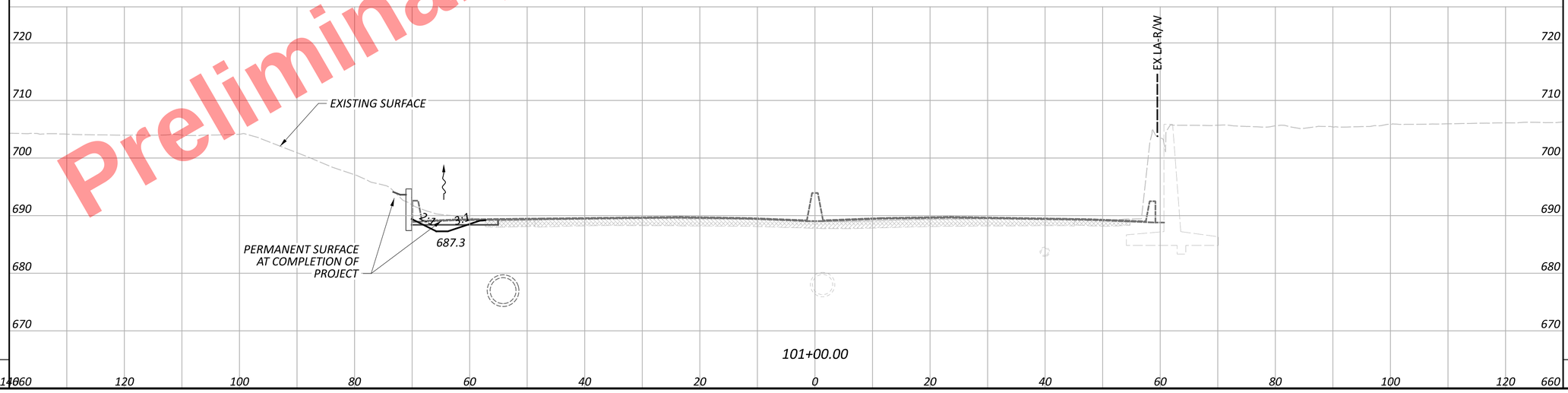
| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

SHEET TOTAL

SHEET TOTALS

# MOT CROSS SECTIONS - I.R. 77
## STA. 101+00.00 TO STA. 102+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.207 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 101+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:13:22 PM USER: kperkins
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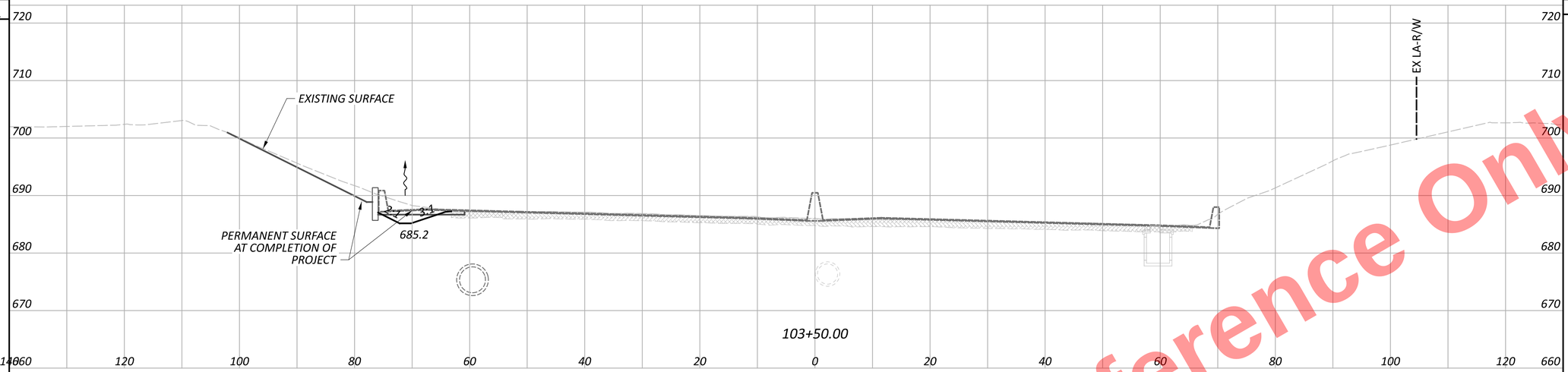
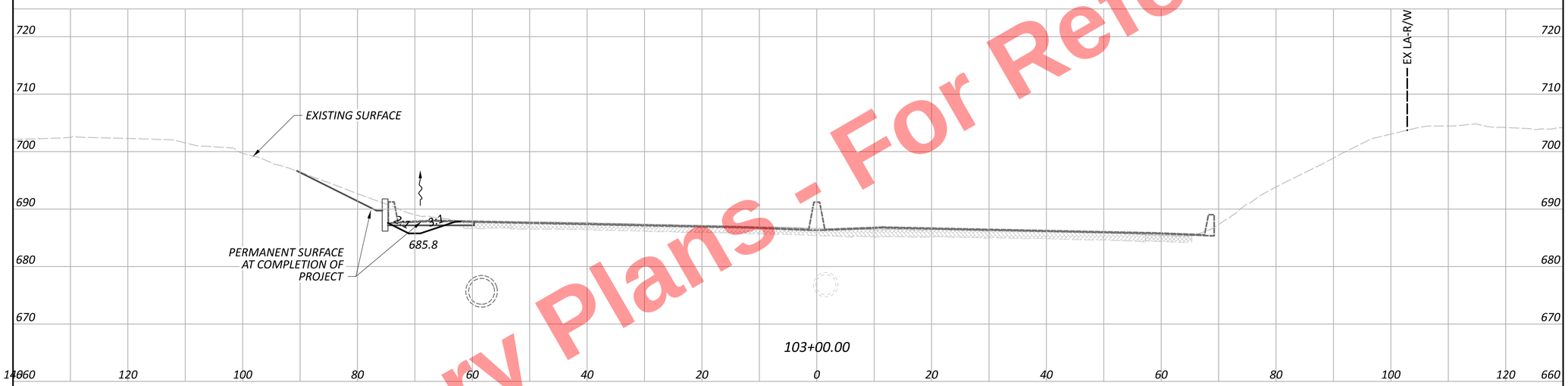
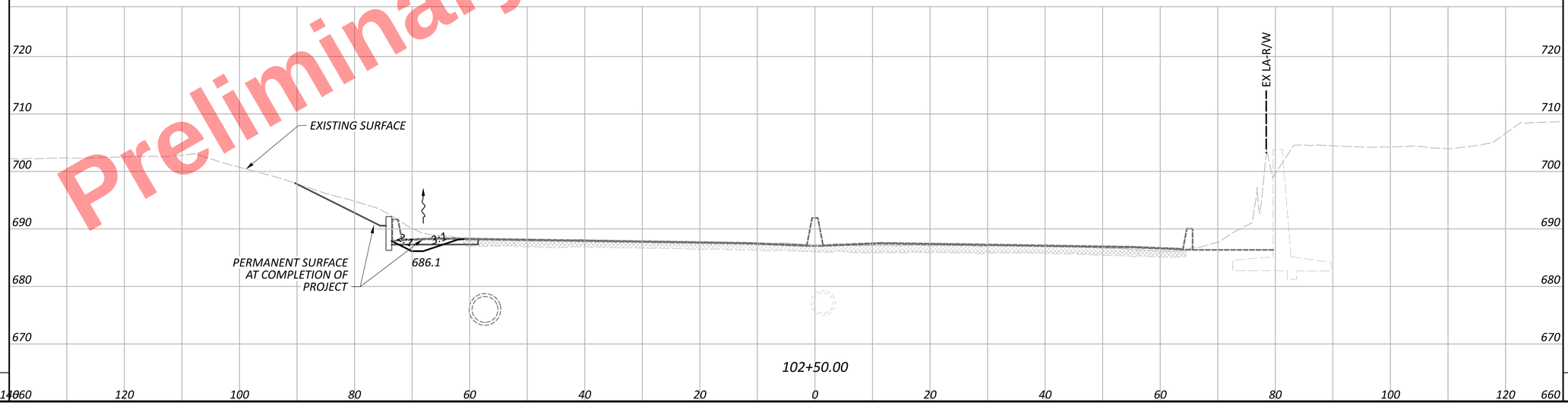
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 102+50.00 TO STA. 103+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

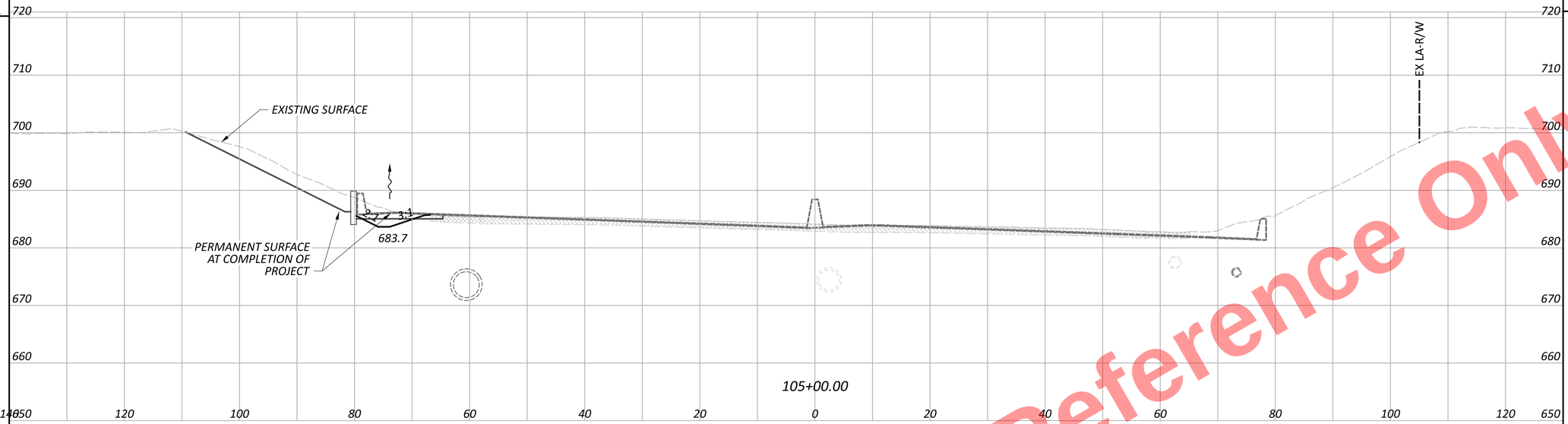
PROJECT ID
105743

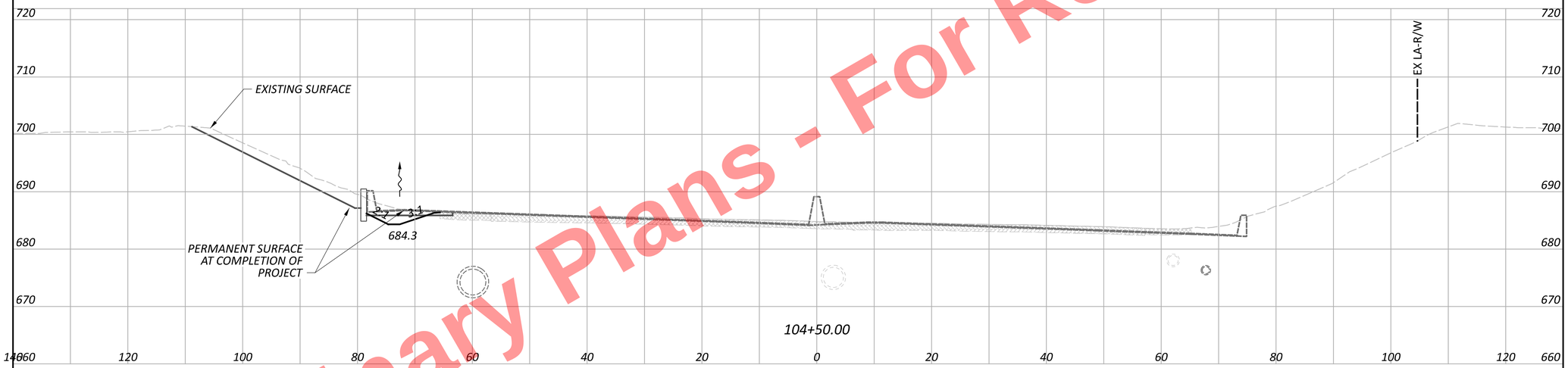
SHEET P.208 | TOTAL P.1135

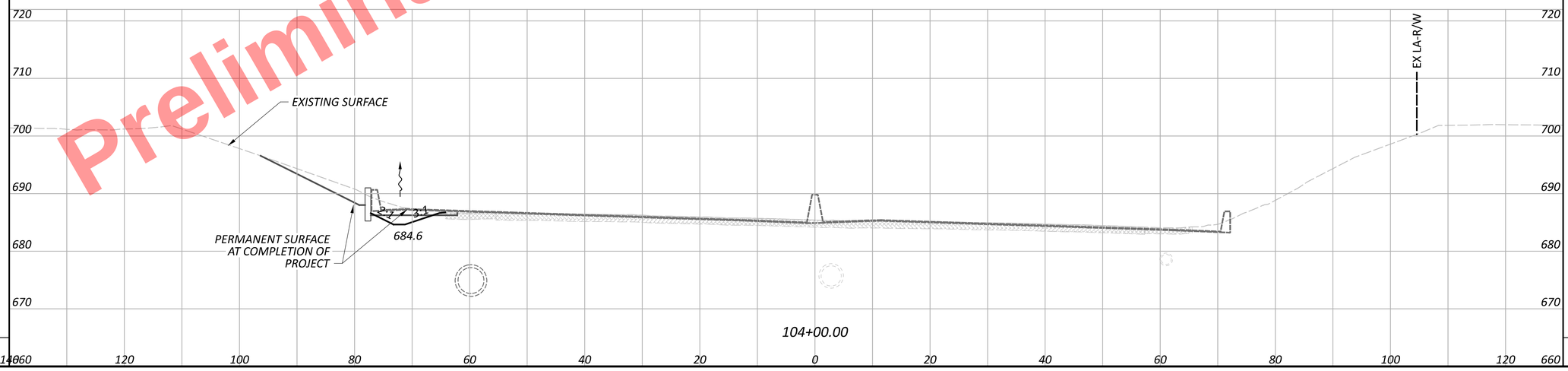
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

# MOT CROSS SECTIONS - I.R. 77
# STA. 104+00.00 TO STA. 105+00.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |

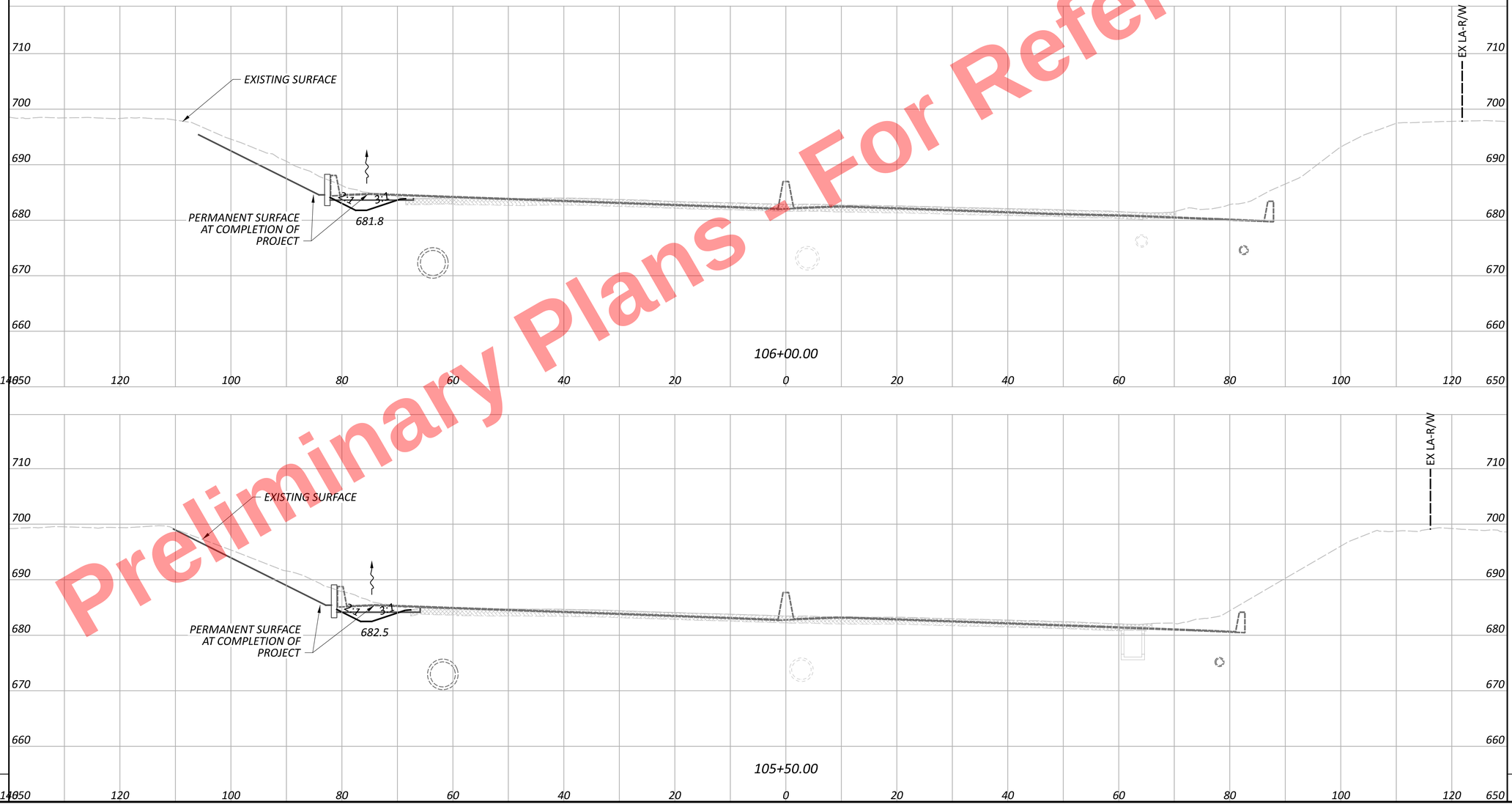
| REVIEWER | |
|---|---|
| MTR | 10/24/25 |

| PROJECT ID |
|---|
| 105743 |

| SHEET | TOTAL |
|---|---|
| P.209 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 105+50.00 TO STA. 106+00.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 105+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:13:38 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

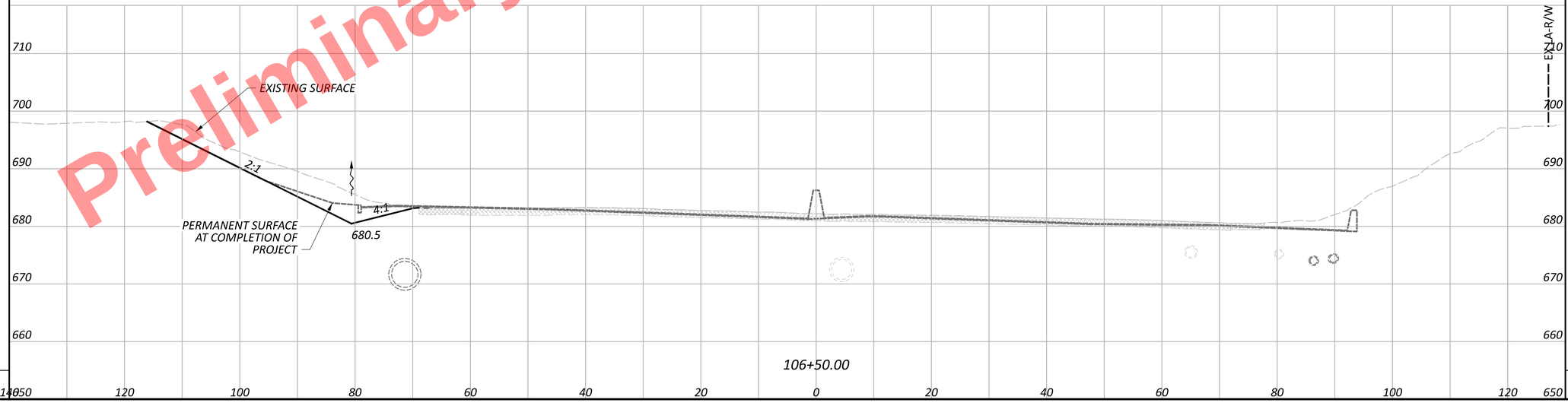
PROJECT ID
105743

SHEET P.210 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only




SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 106+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.211 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:13:42 PM USER: kperkins
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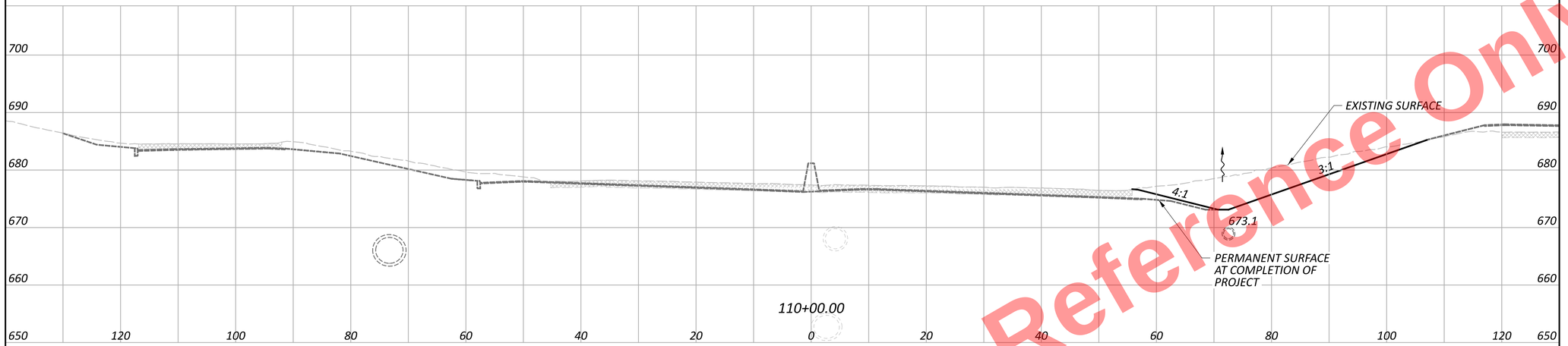
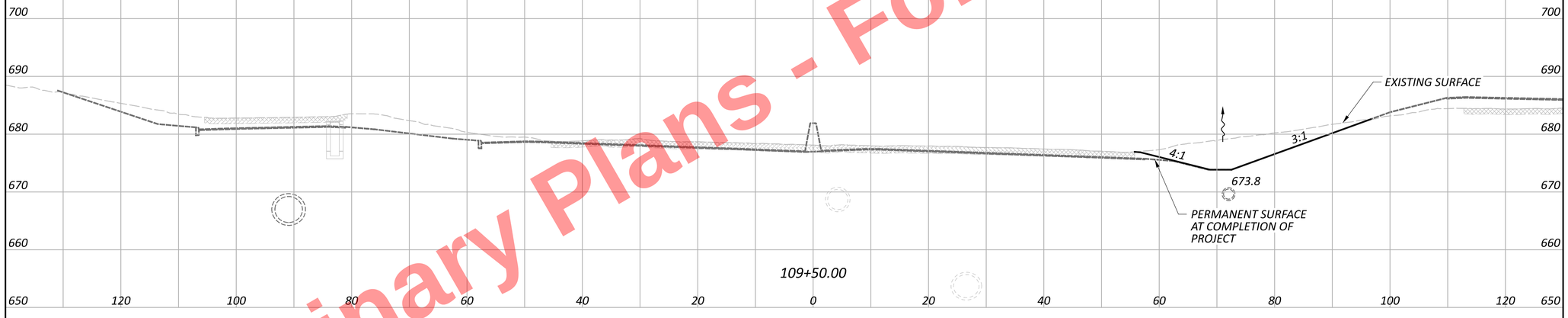
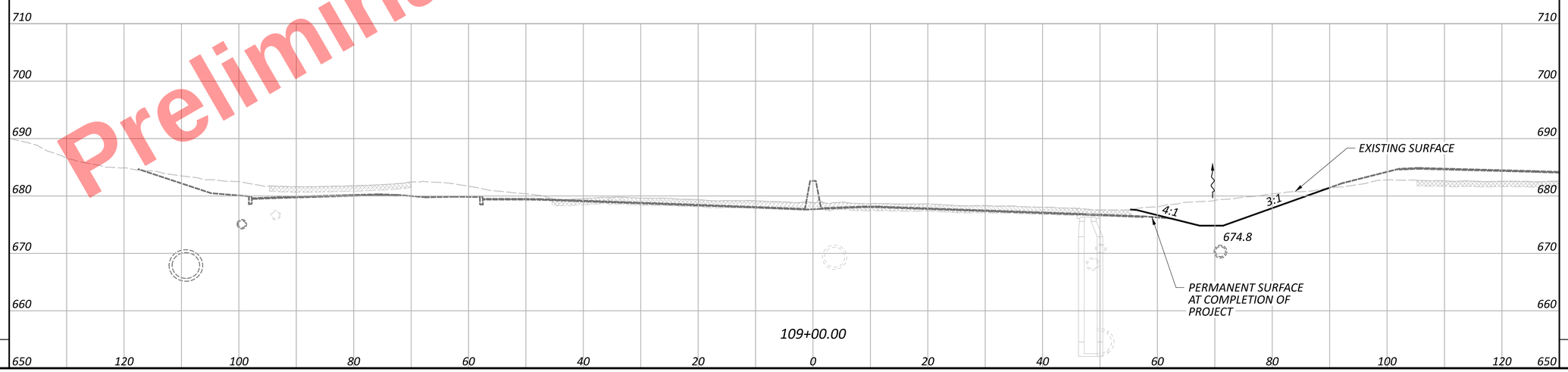
| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 109+00.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

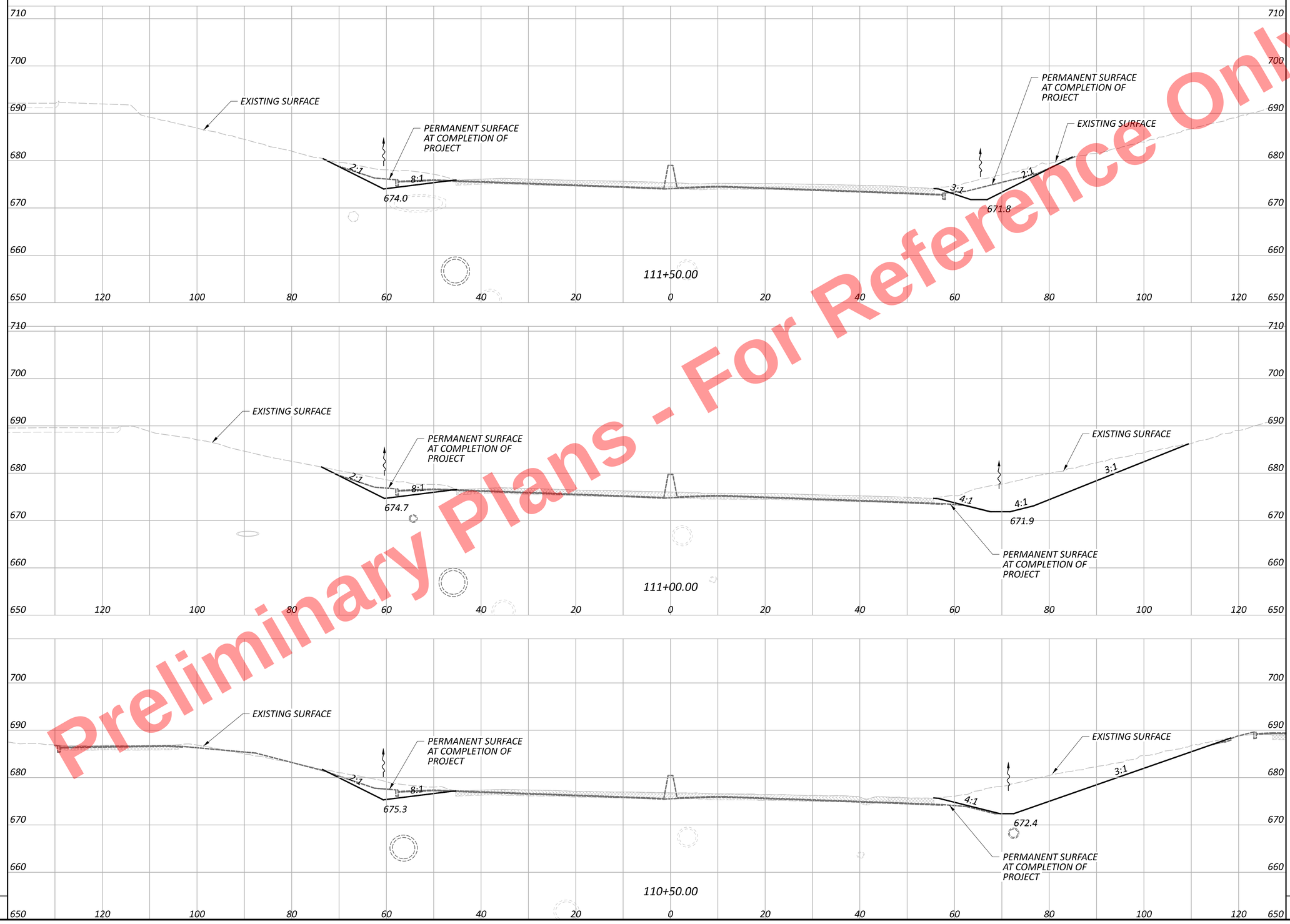
PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.212 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 110+50.00 TO STA. 111+50.00

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

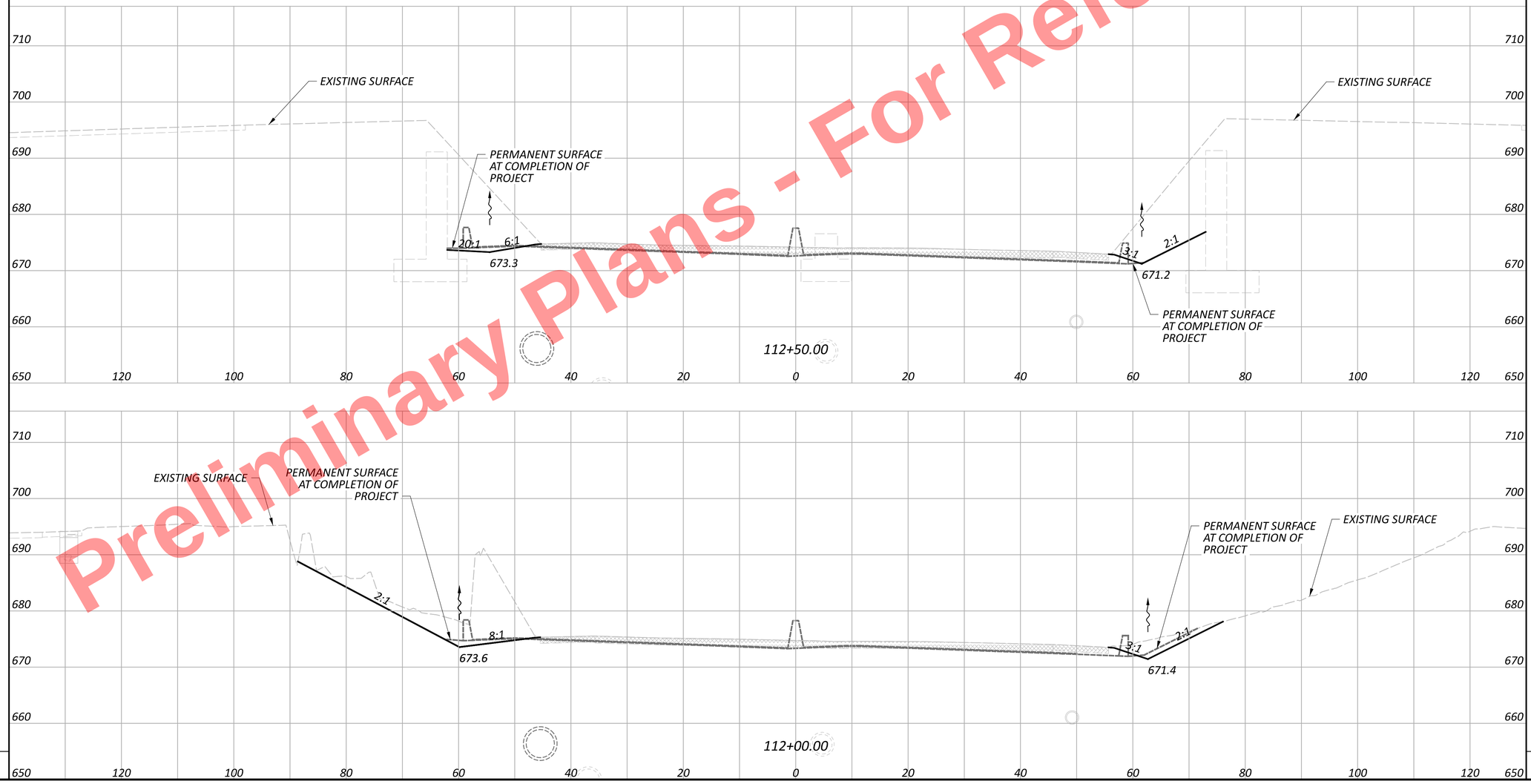
REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.213 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |
| SHEET TOTALS | | | |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 112+00.00 TO STA. 112+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.214 | TOTAL P.1135

CUY-77-11.43 - PART 1

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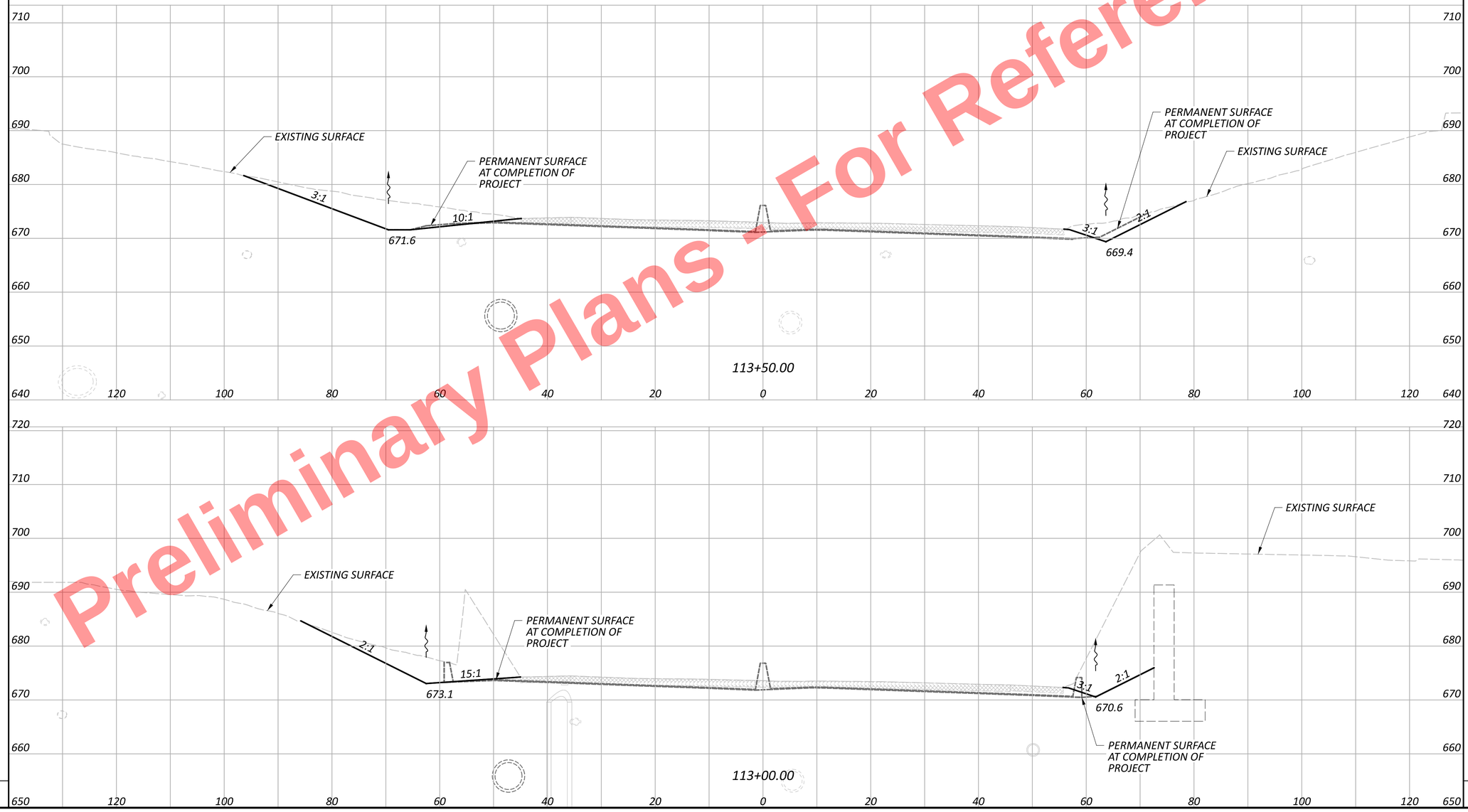
| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 113+00.00 TO STA. 113+50.00

CUY-77-11.43 - PART 1

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| SHEET TOTAL | | SHEET TOTALS | |
|---|---|---|---|

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

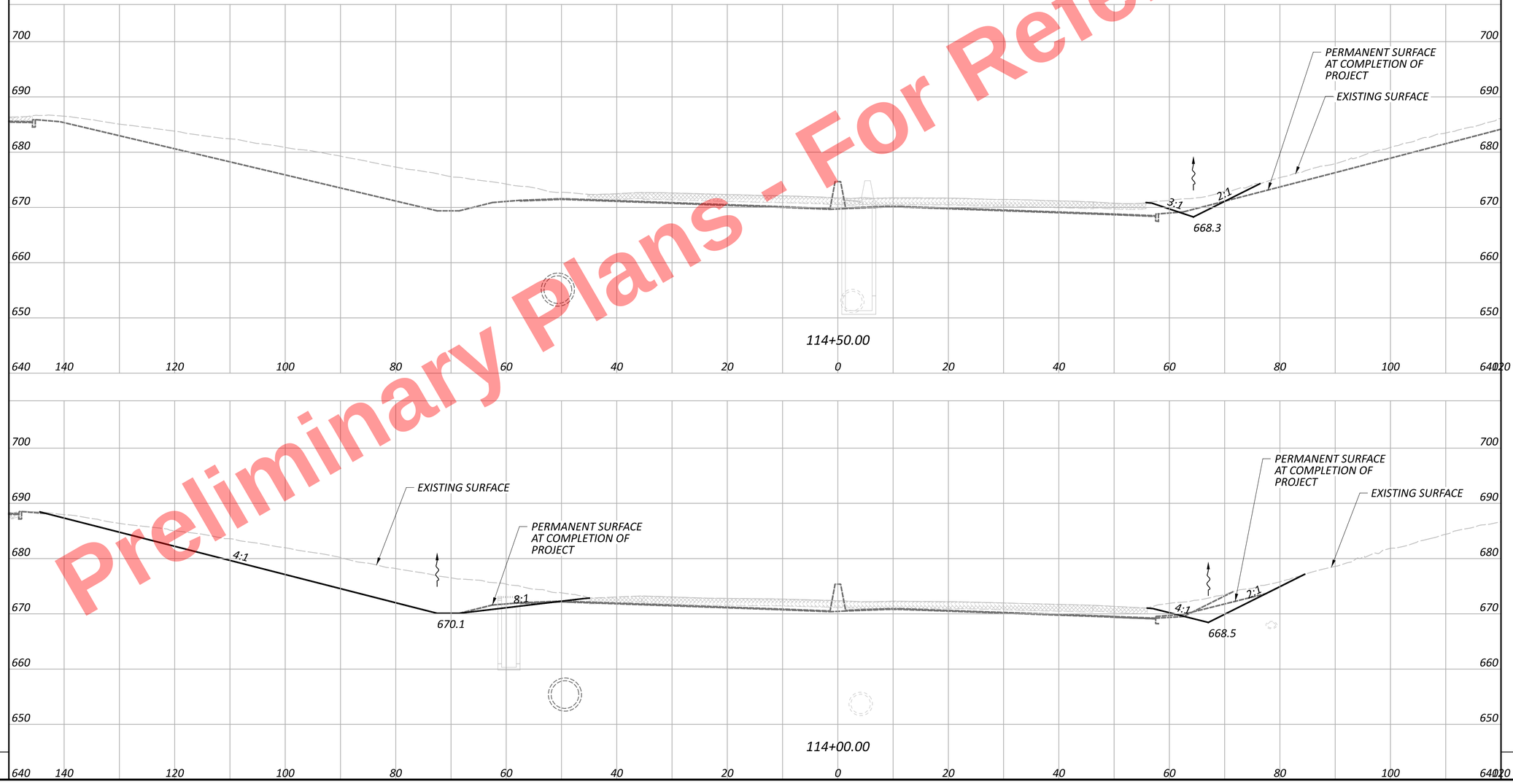
PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.215 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 114+00.00 TO STA. 114+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.216 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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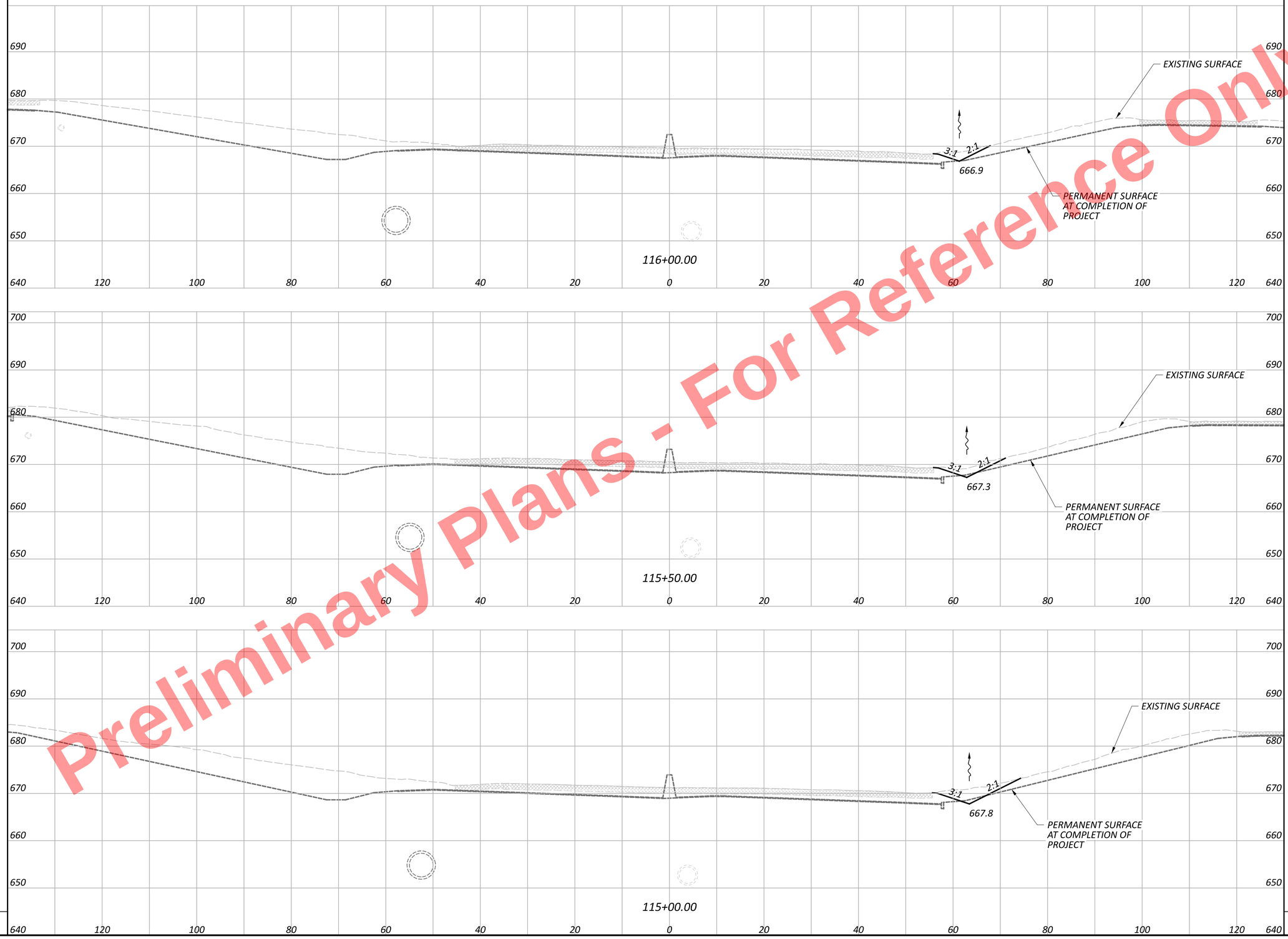
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 115+00.00 TO STA. 116+00.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR | 10/24/25 |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.217 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 116+50.00 TO STA. 119+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.218 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | 160 |

| END AREA | |
|---|---|
| CUT | FILL |
| | |
| SHEET TOTALS | |

| VOLUME | |
|---|---|
| CUT | FILL |
| | |
| | |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 119+50.00

MOT

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.219 TOTAL P.1135

CUY-77-11.43 - PART 1

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| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 120+00.00 TO STA. 121+00.00

DESIGN AGENCY

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.220 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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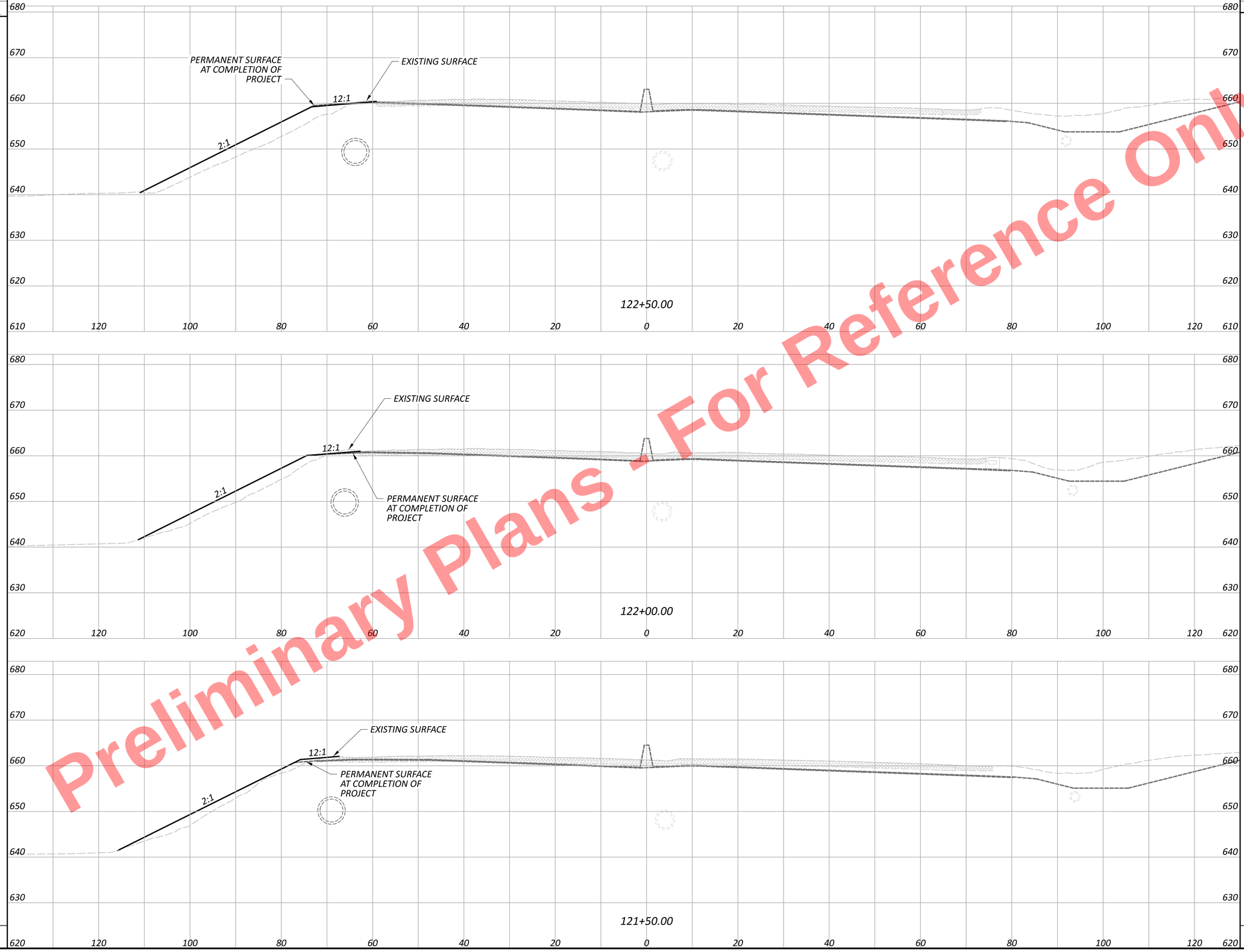
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

# MOT CROSS SECTIONS - I.R. 77
# STA. 121+50.00 TO STA. 122+50.00

DESIGN AGENCY

HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR | 10/24/25 |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.221 | P.1135 |

CUY-77-11.43 - PART 1

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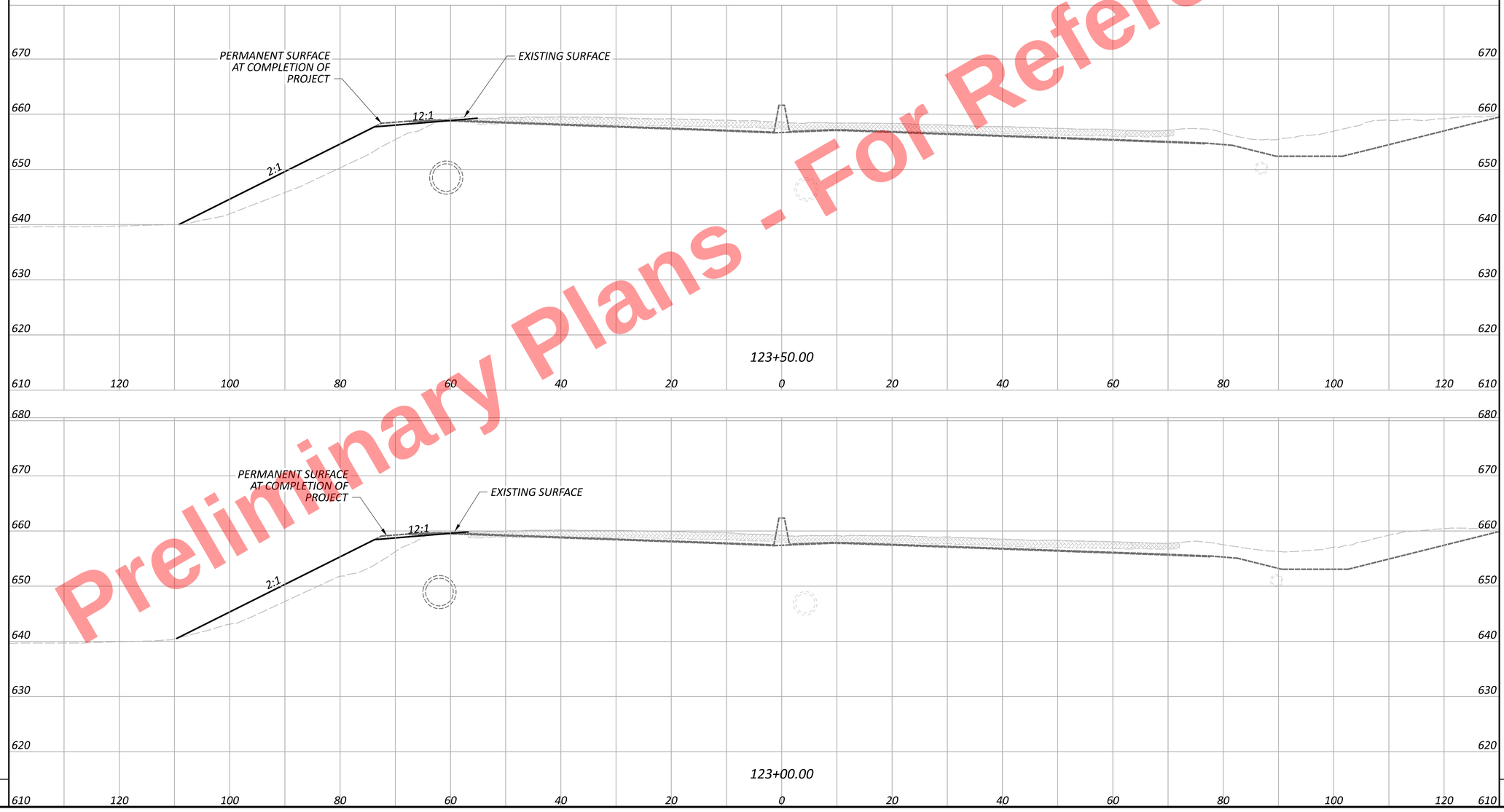
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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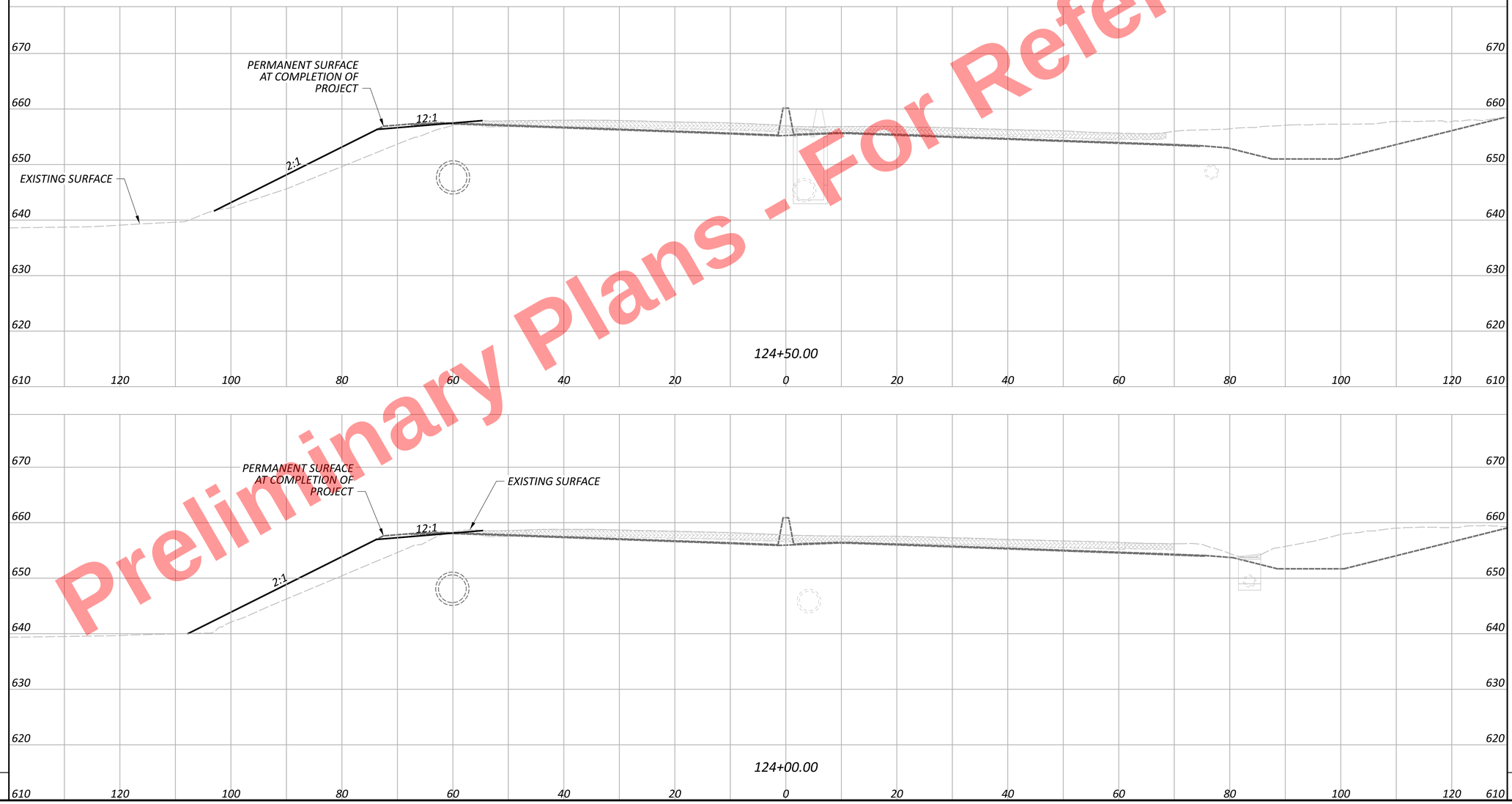
MOT CROSS SECTIONS - I.R. 77
STA. 123+00.00 TO STA. 123+50.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR 10/24/25 | |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.222 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 124+00.00 TO STA. 124+50.00

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

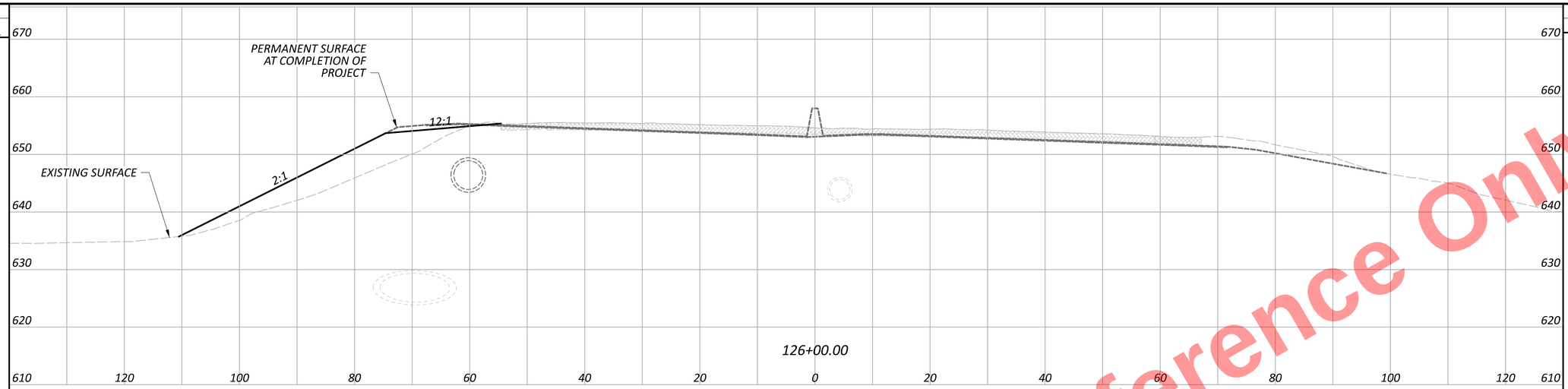
DESIGNER
AS

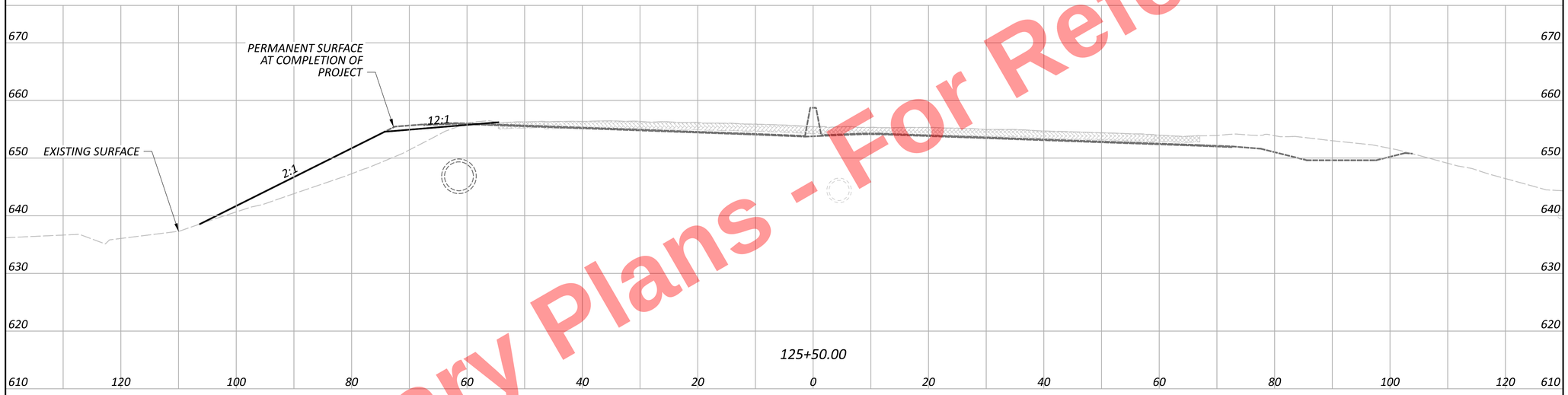
REVIEWER
MTR 10/24/25

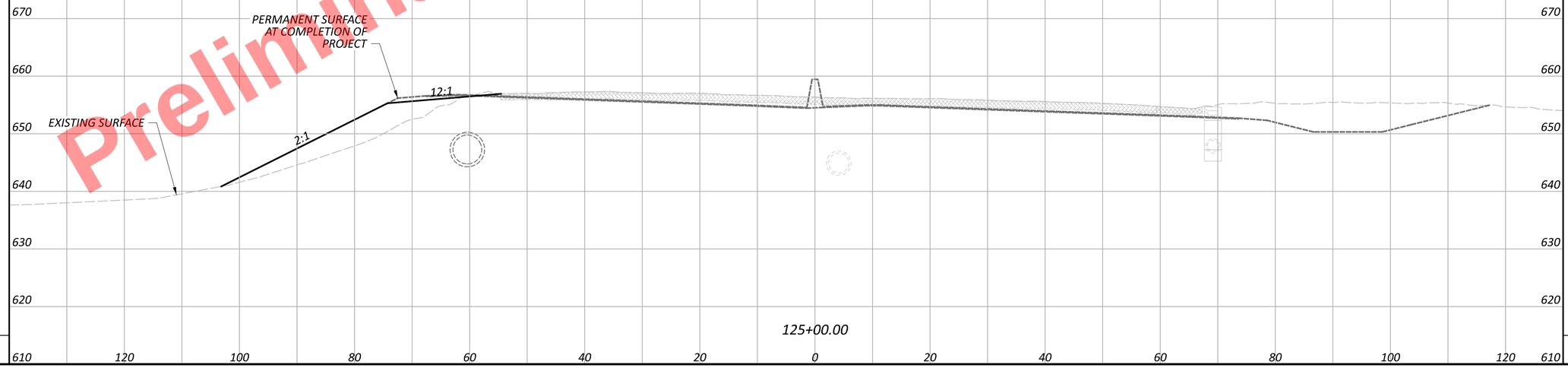
PROJECT ID
105743

SHEET P.223 | TOTAL P.1135

| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 125+00.00 TO STA. 126+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.224 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 125+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:14:38 PM USER: kperkins
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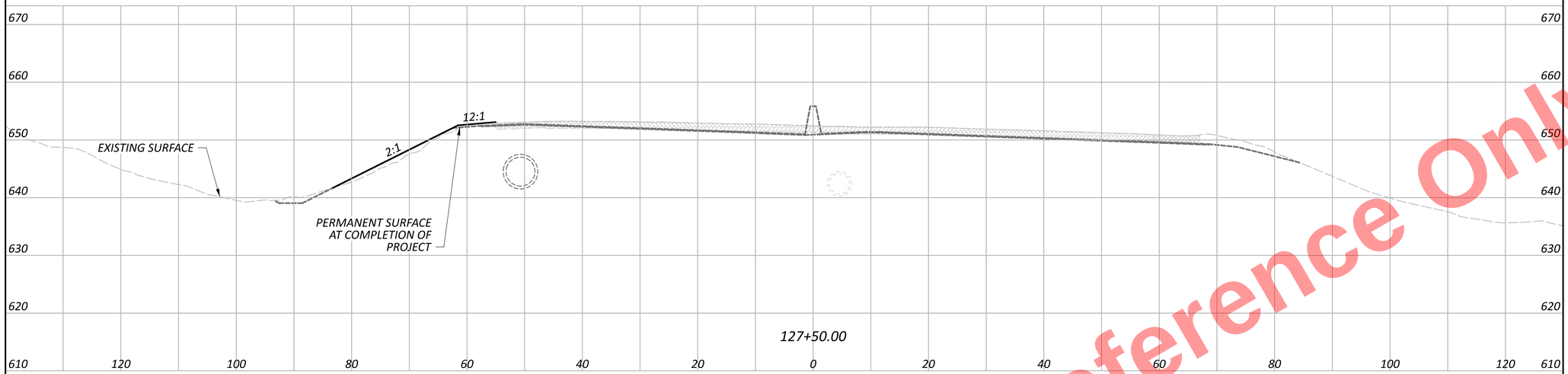
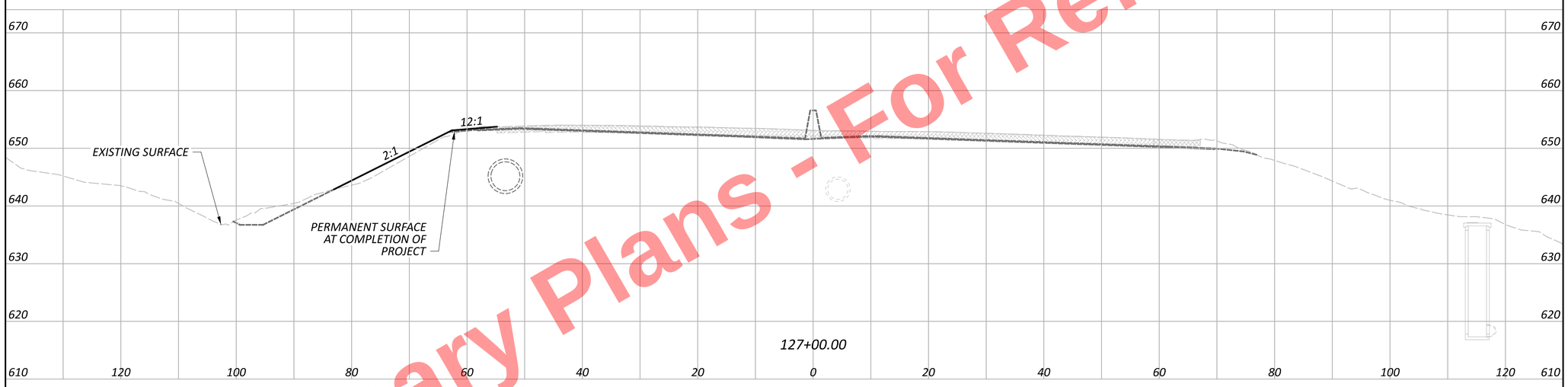
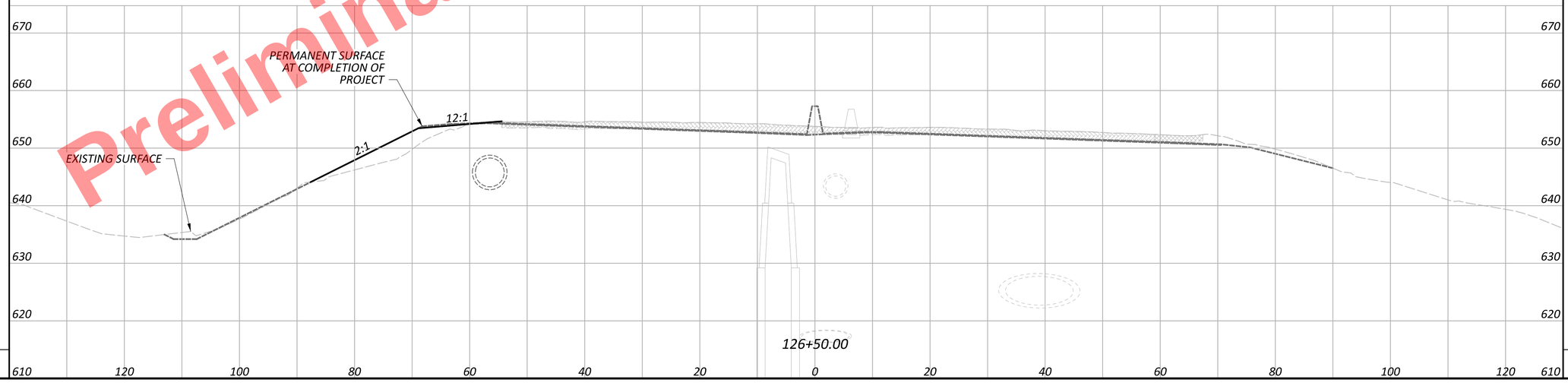
| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 126+50.00 TO STA. 127+50.00

DESIGN AGENCY
HNTB

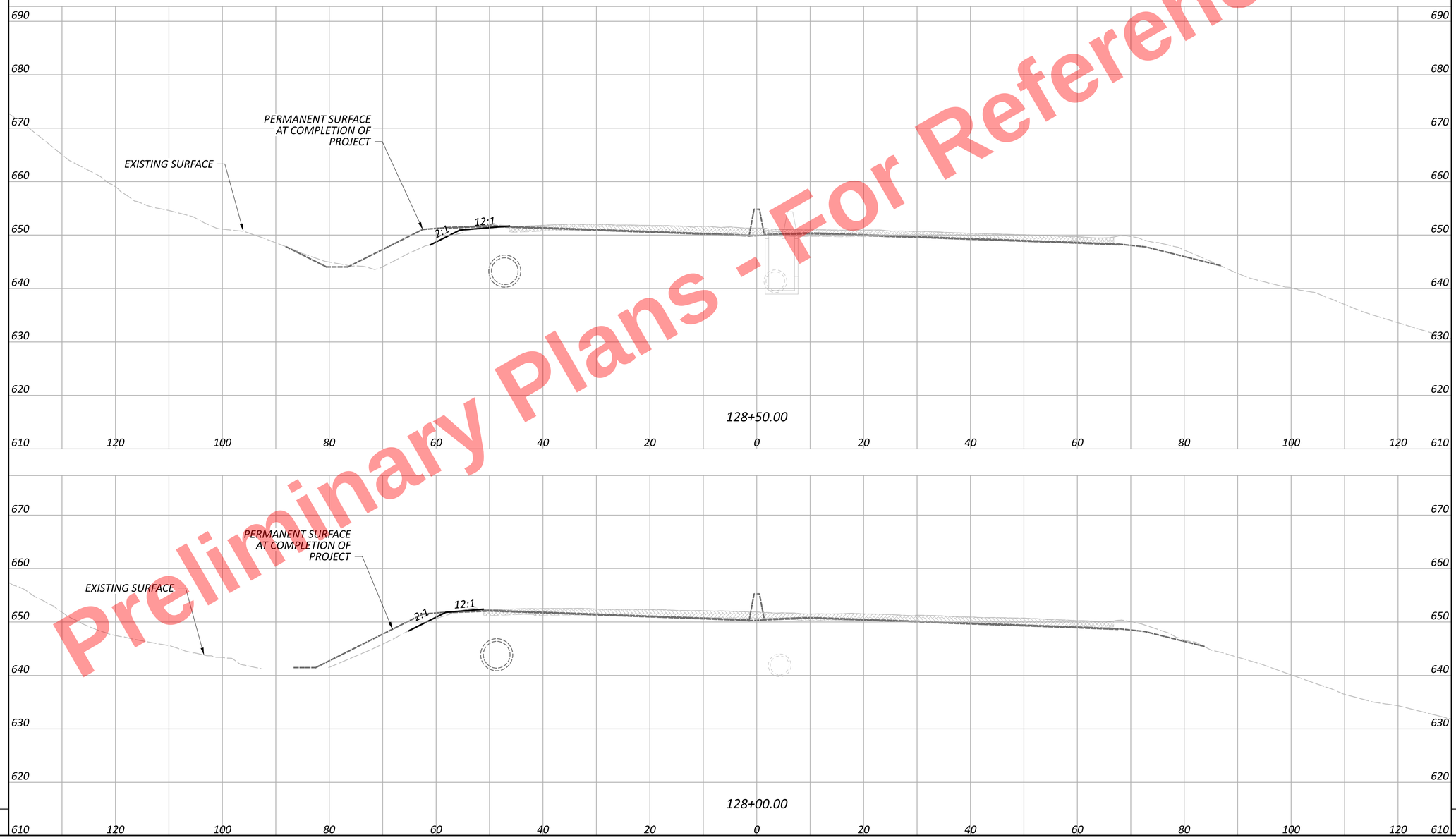
DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.225 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |
| SHEET TOTALS | | | |

MOT CROSS SECTIONS - I.R. 77
STA. 128+00.00 TO STA. 128+50.00

DESIGN AGENCY
HNTB

| DESIGNER | AS |
|---|---|
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.226 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: TempGrading - 128+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:14:49 PM USER: kperkins
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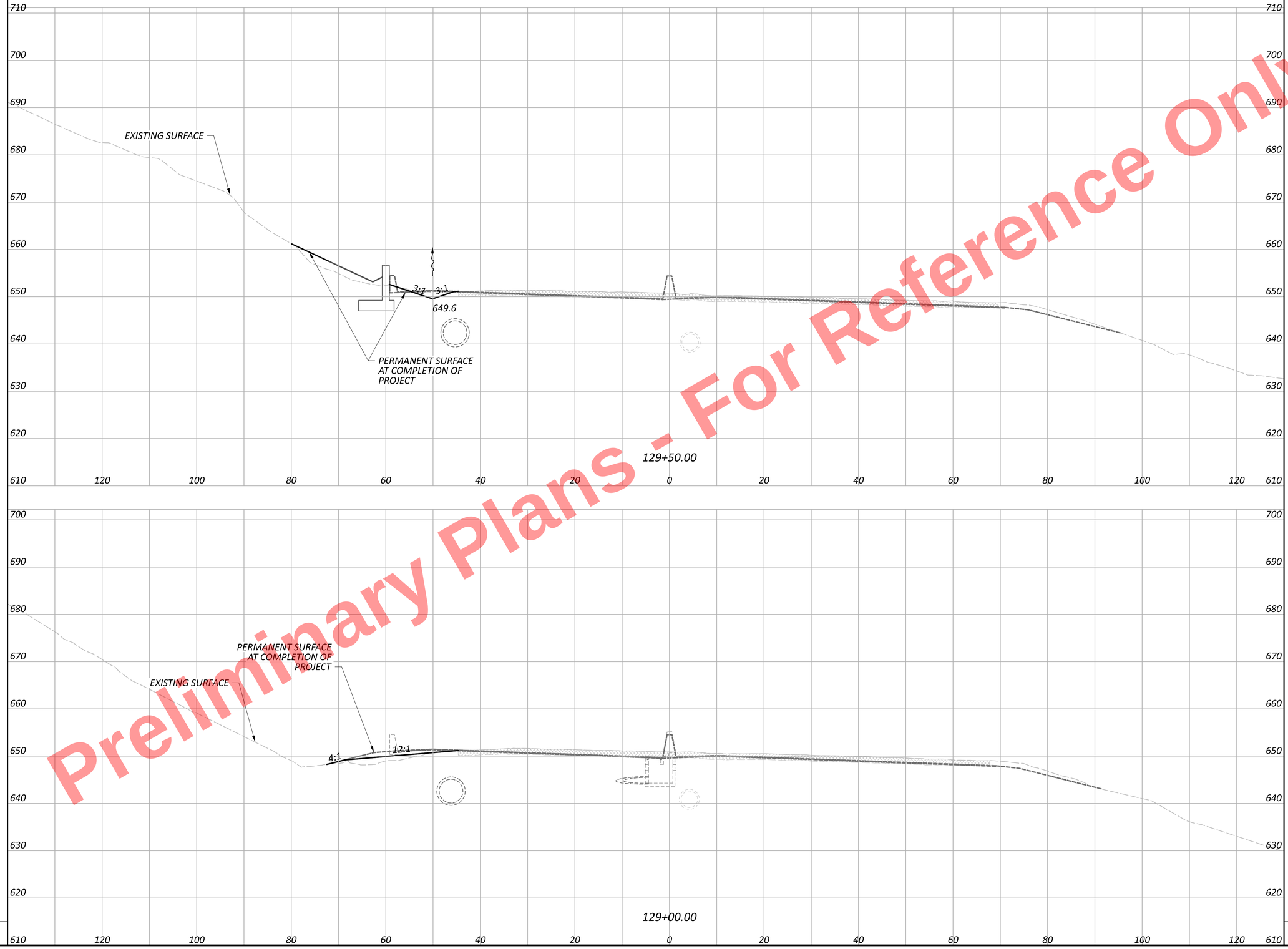
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 129+00.00 TO STA. 129+50.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR 10/24/25 | |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.227 | P.1135 |

CUY-77-11.43 - PART 1

MODEL: TempGrading - 129+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:14:53 PM USER: kperkins
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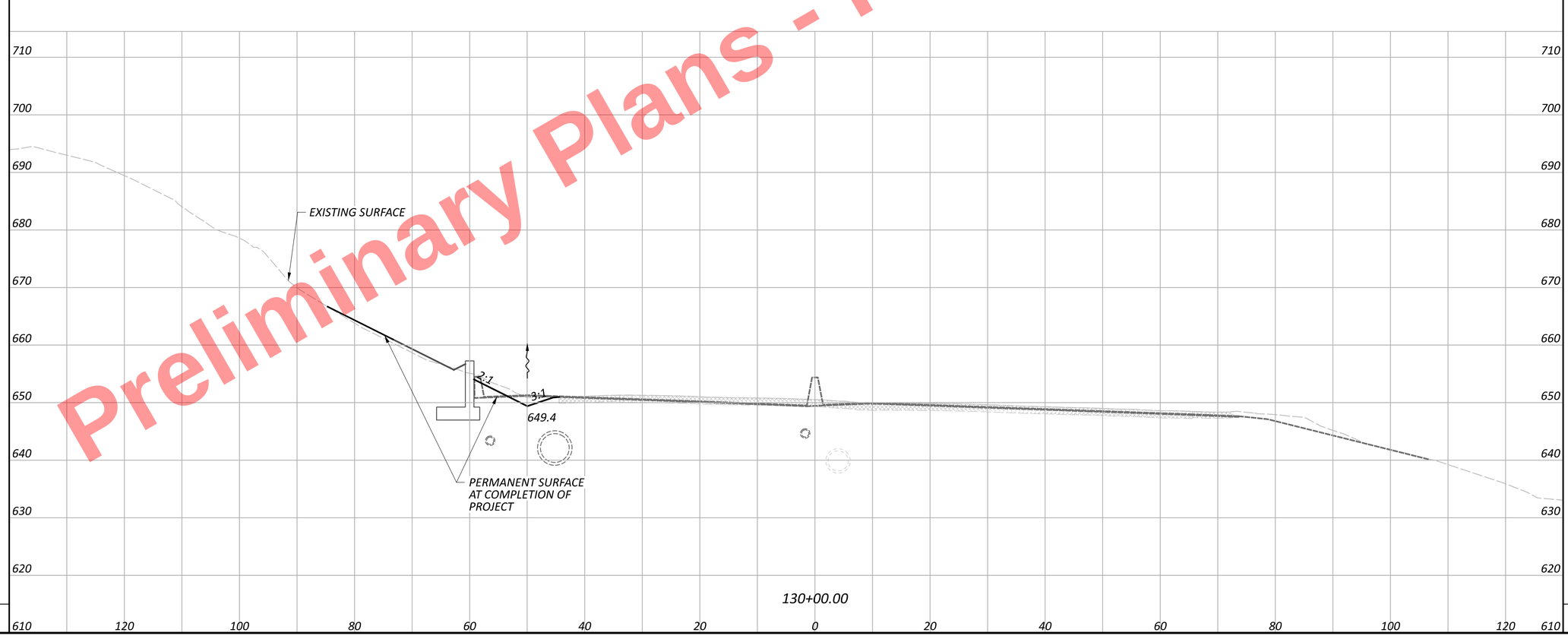
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 130+00.00

MOT

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.228 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 130+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:14:56 PM USER: kperkins
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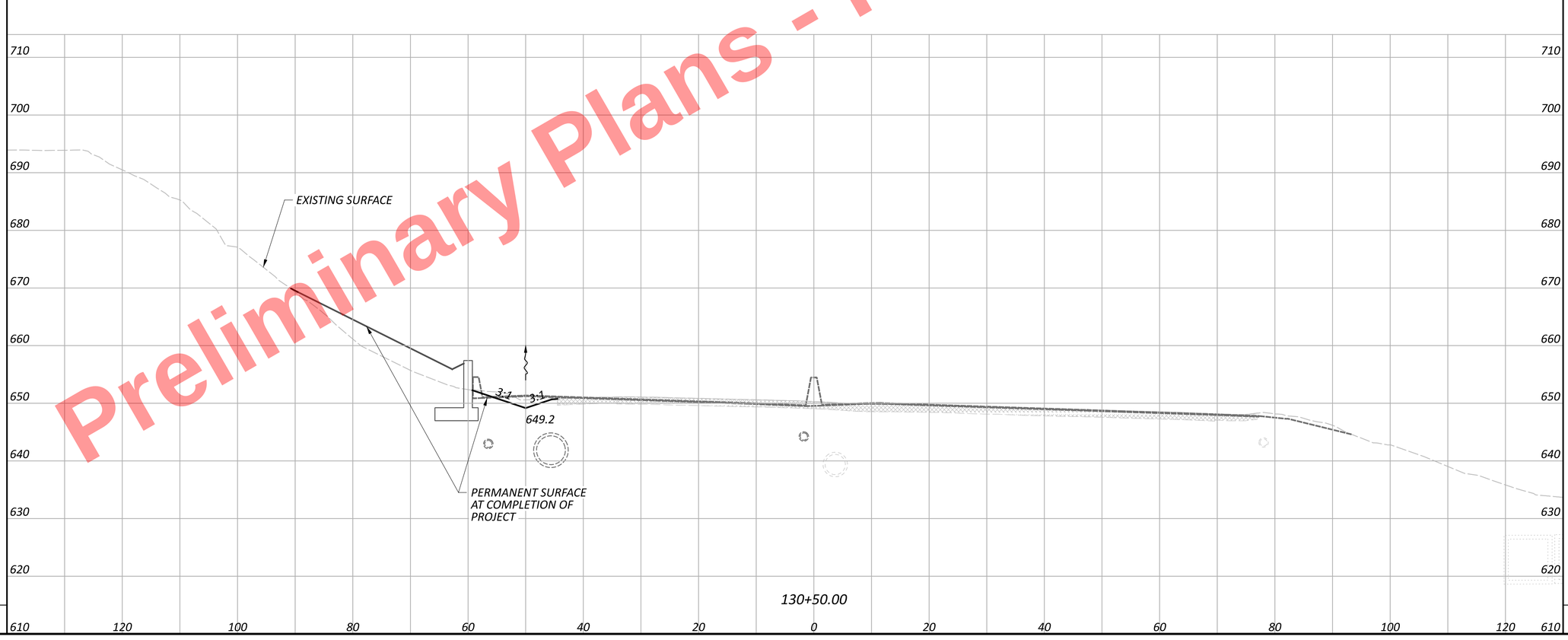
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 130+50.00

DESIGN AGENCY

DESIGNER AS

REVIEWER MTR 10/24/25

PROJECT ID 105743

SHEET P.229 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 130+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:14:58 PM USER: kperkins
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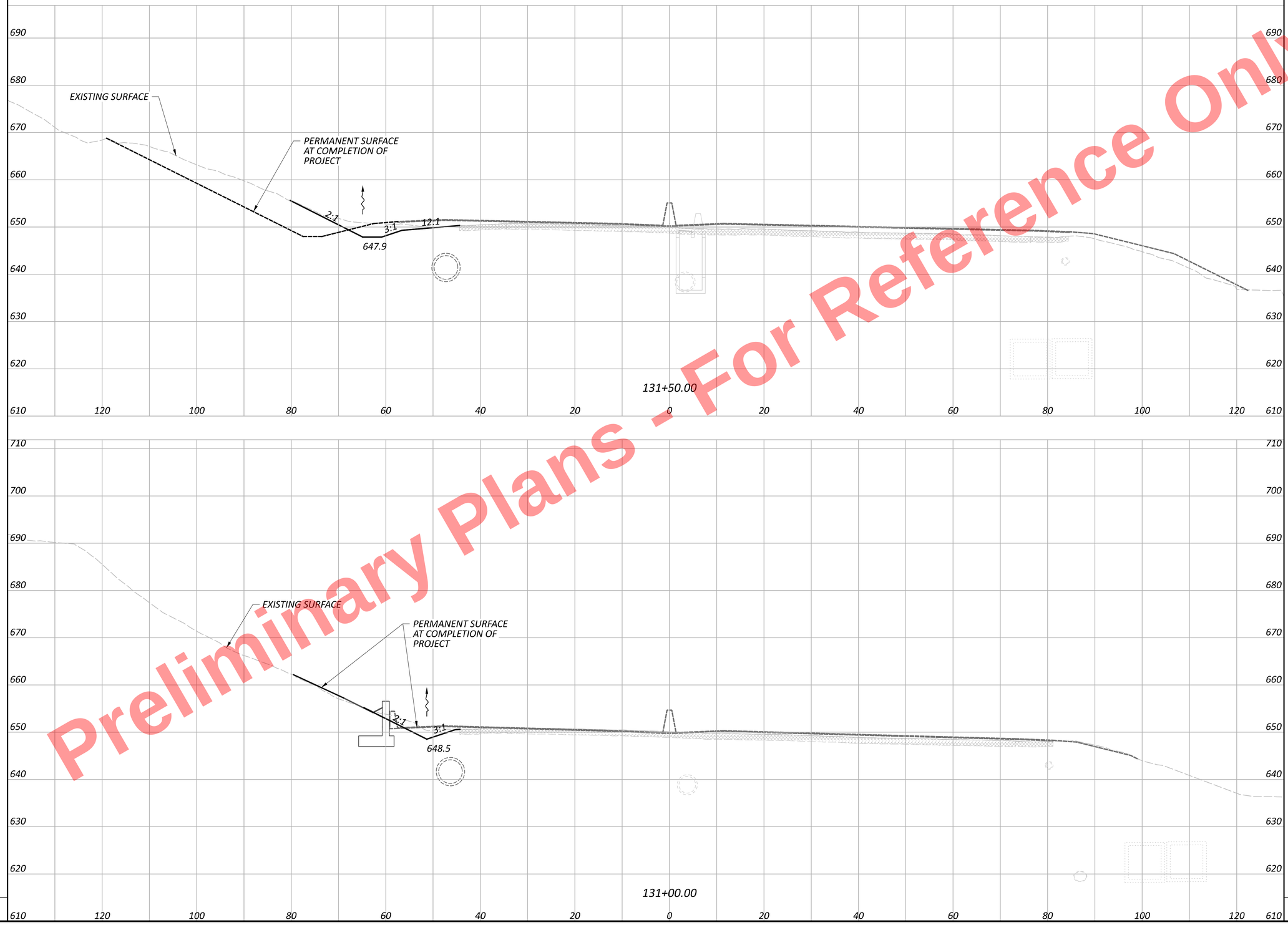
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




Preliminary Plans - For Reference Only

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 131+00.00 TO STA. 131+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.230 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 131+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:00 PM USER: kperkins
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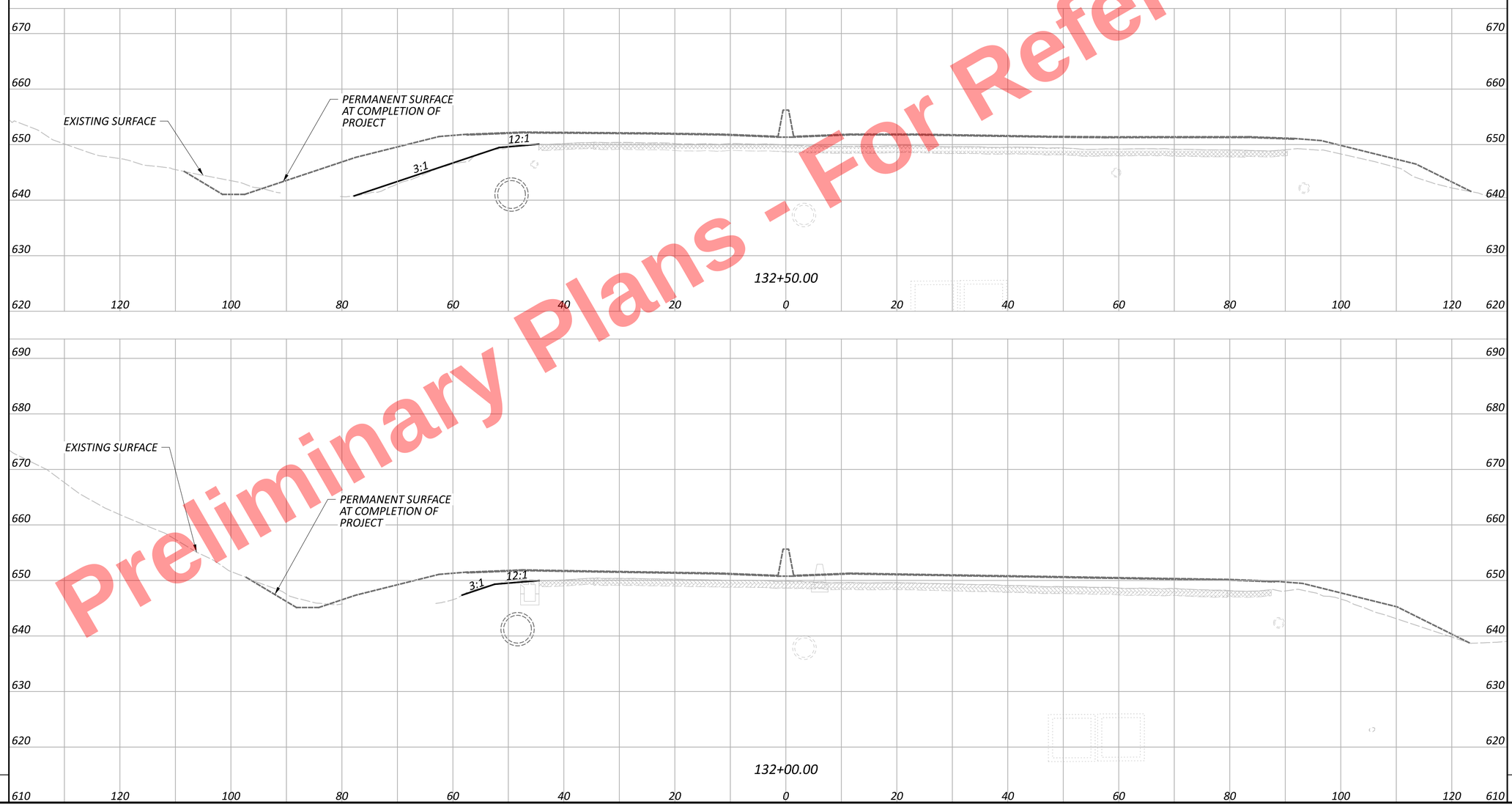
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 132+00.00 TO STA. 132+50.00

CUY-77-11.43 - PART 1

SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.231 | TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: TempGrading - 132+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:04 PM USER: kperkins
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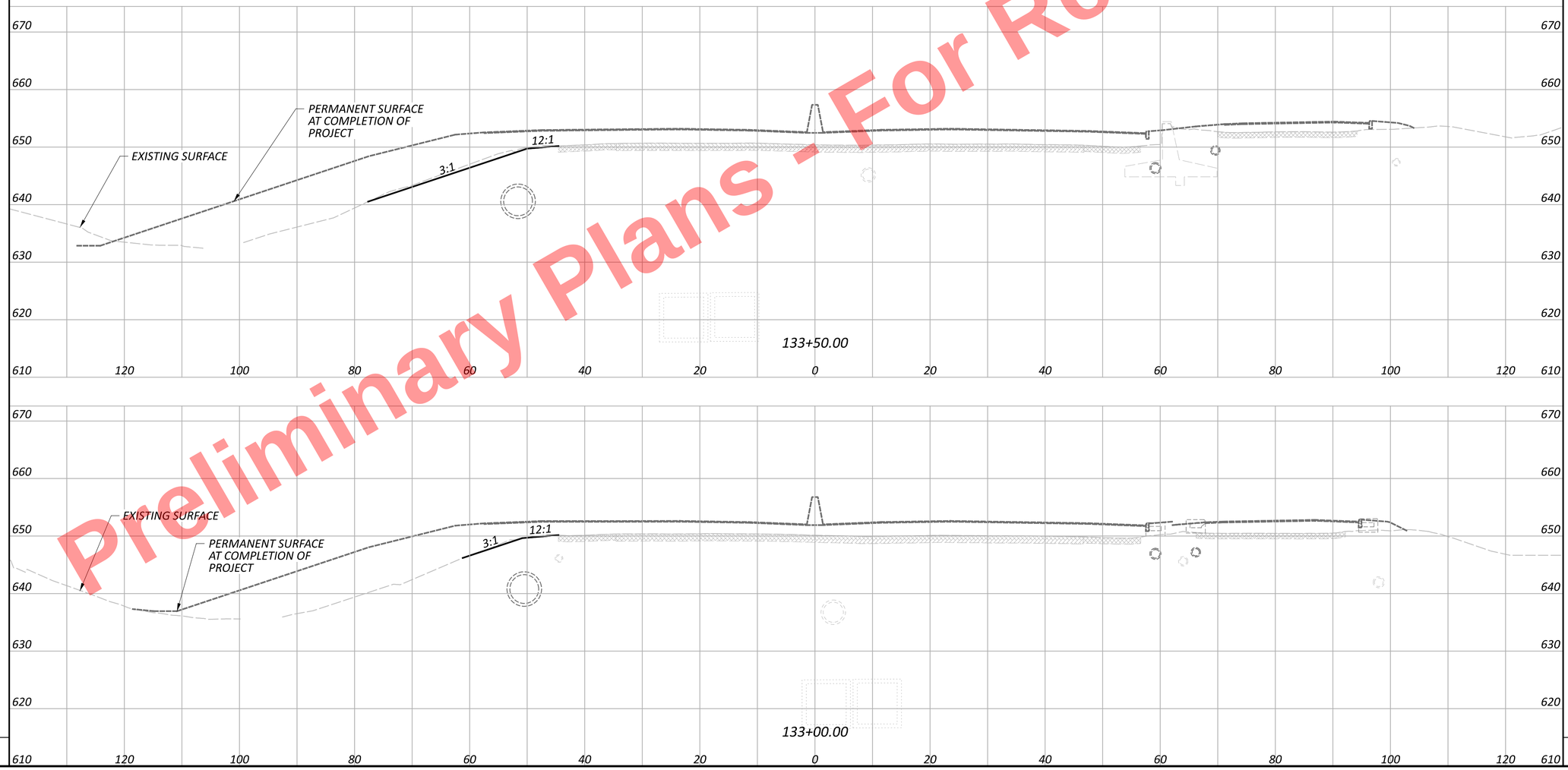
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 133+00.00 TO STA. 133+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.232 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 133+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:08 PM USER: kperkins
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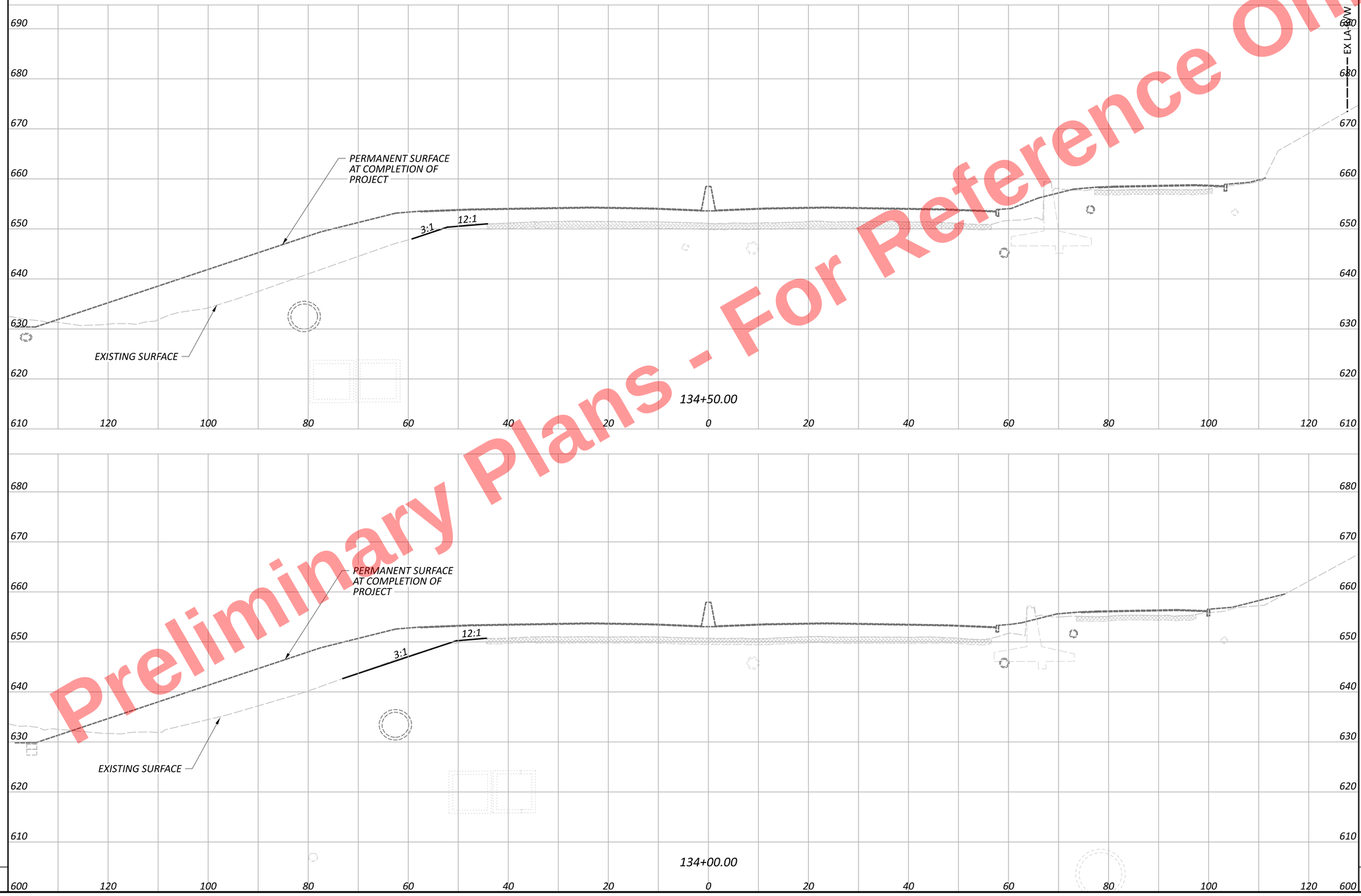
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




Preliminary Plans - For Reference Only

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 134+00.00 TO STA. 134+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.233 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 134+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:13 PM USER: kperkins
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| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |
| SHEET TOTALS | | | |

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 135+00.00 TO STA. 135+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.234 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 135+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:17 PM USER: kperkins
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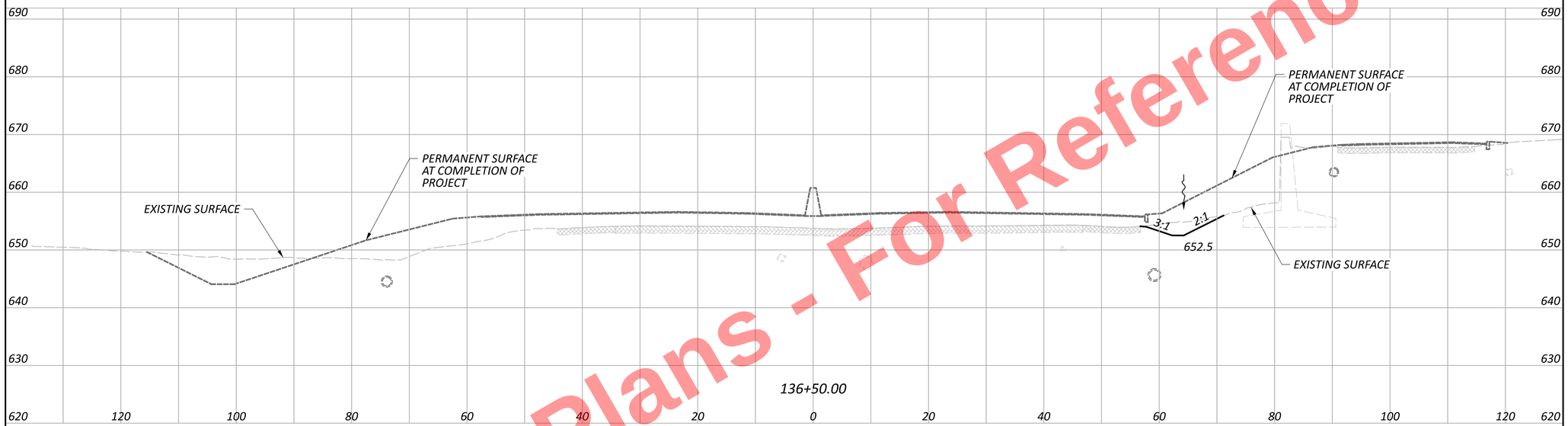
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |




| END AREA | |
|---|---|
| CUT | FILL |
| | |
| SHEET TOTALS | |

| VOLUME | |
|---|---|
| CUT | FILL |
| | |
| | |

MOT CROSS SECTIONS - I.R. 77
STA. 136+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.235 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: TempGrading - 136+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:18 PM USER: kperkins
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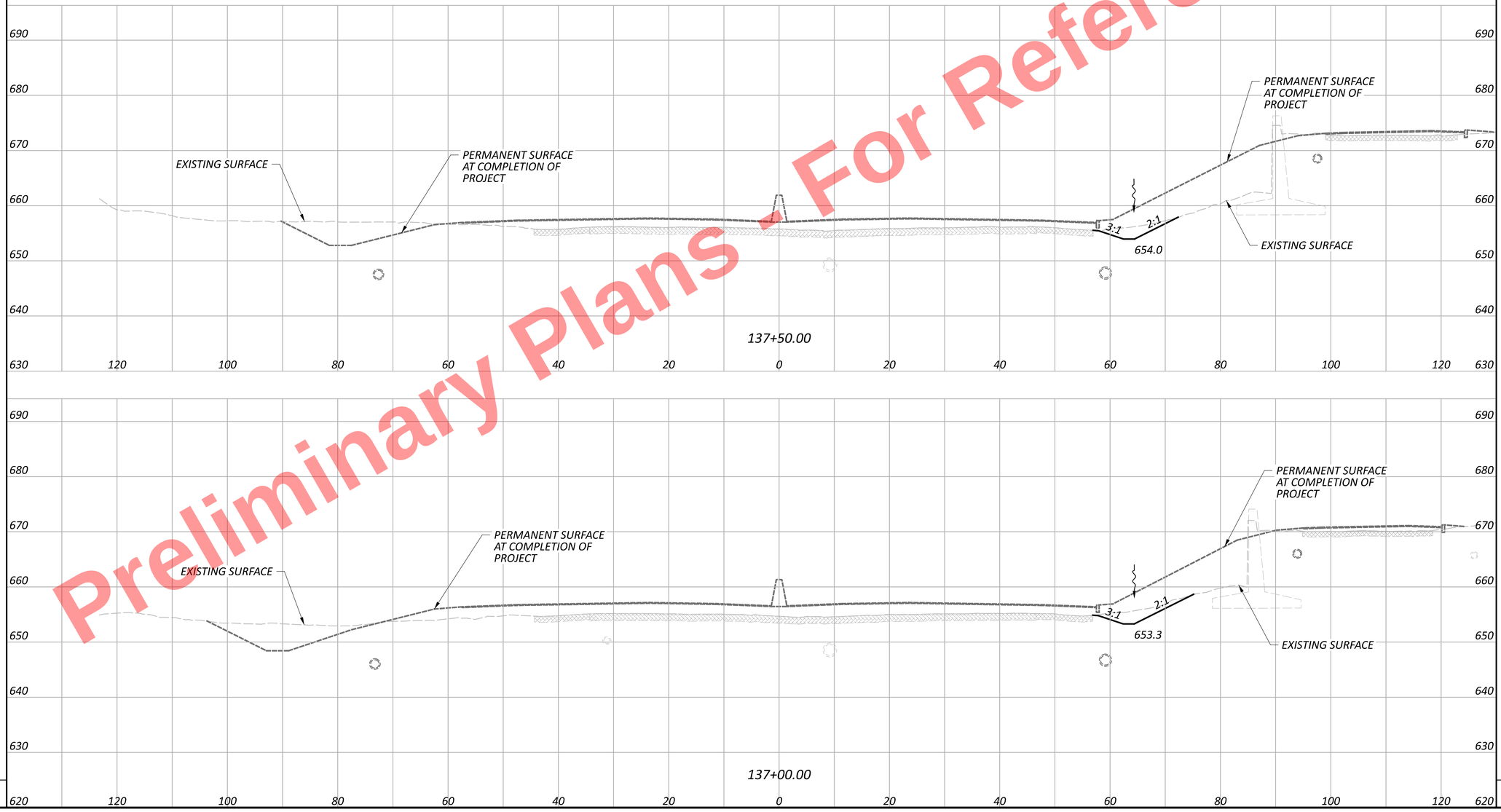
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |
| SHEET TOTALS | | | |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 137+00.00 TO STA. 137+50.00

DESIGN AGENCY
HNTB

| DESIGNER | AS |
|---|---|
| REVIEWER | MTR 10/24/25 |
| PROJECT ID | 105743 |
| SHEET | P.236 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: TempGrading - 137+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:21 PM USER: kperkins
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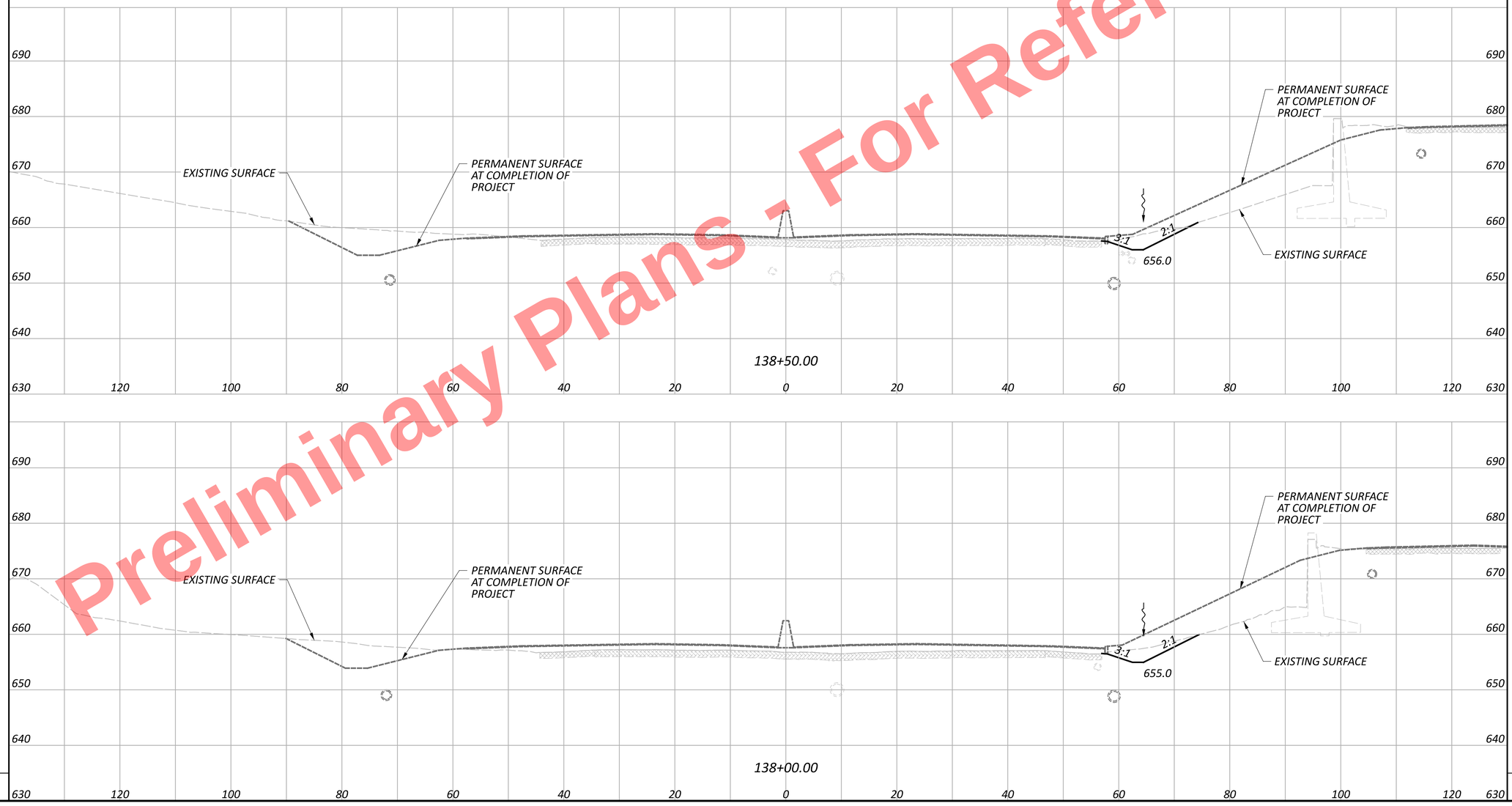
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - Not For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 138+00.00 TO STA. 138+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.237 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 138+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:25 PM USER: kperkins
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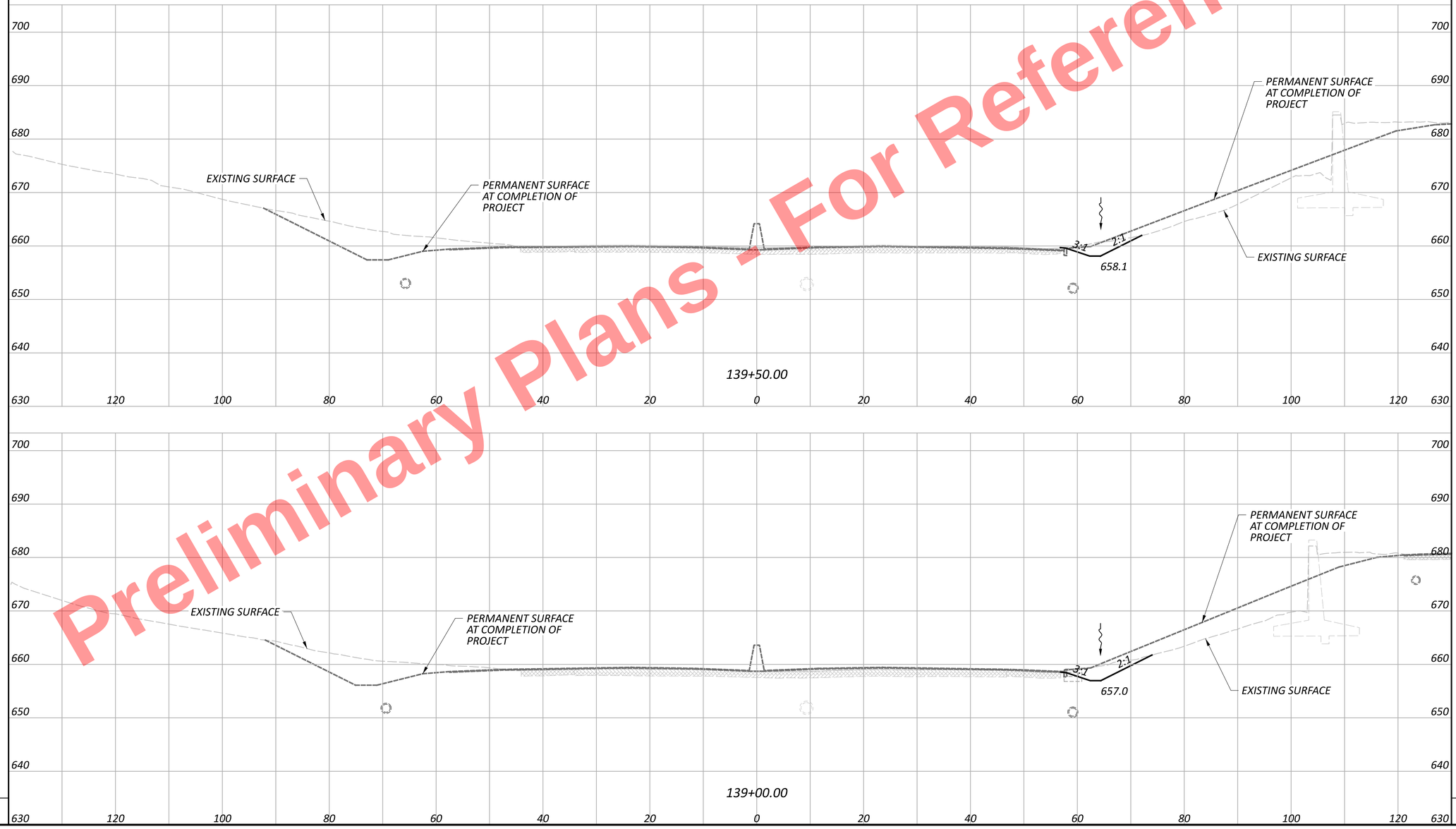
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 139+00.00 TO STA. 139+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.238 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 139+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:29 PM USER: kperkins
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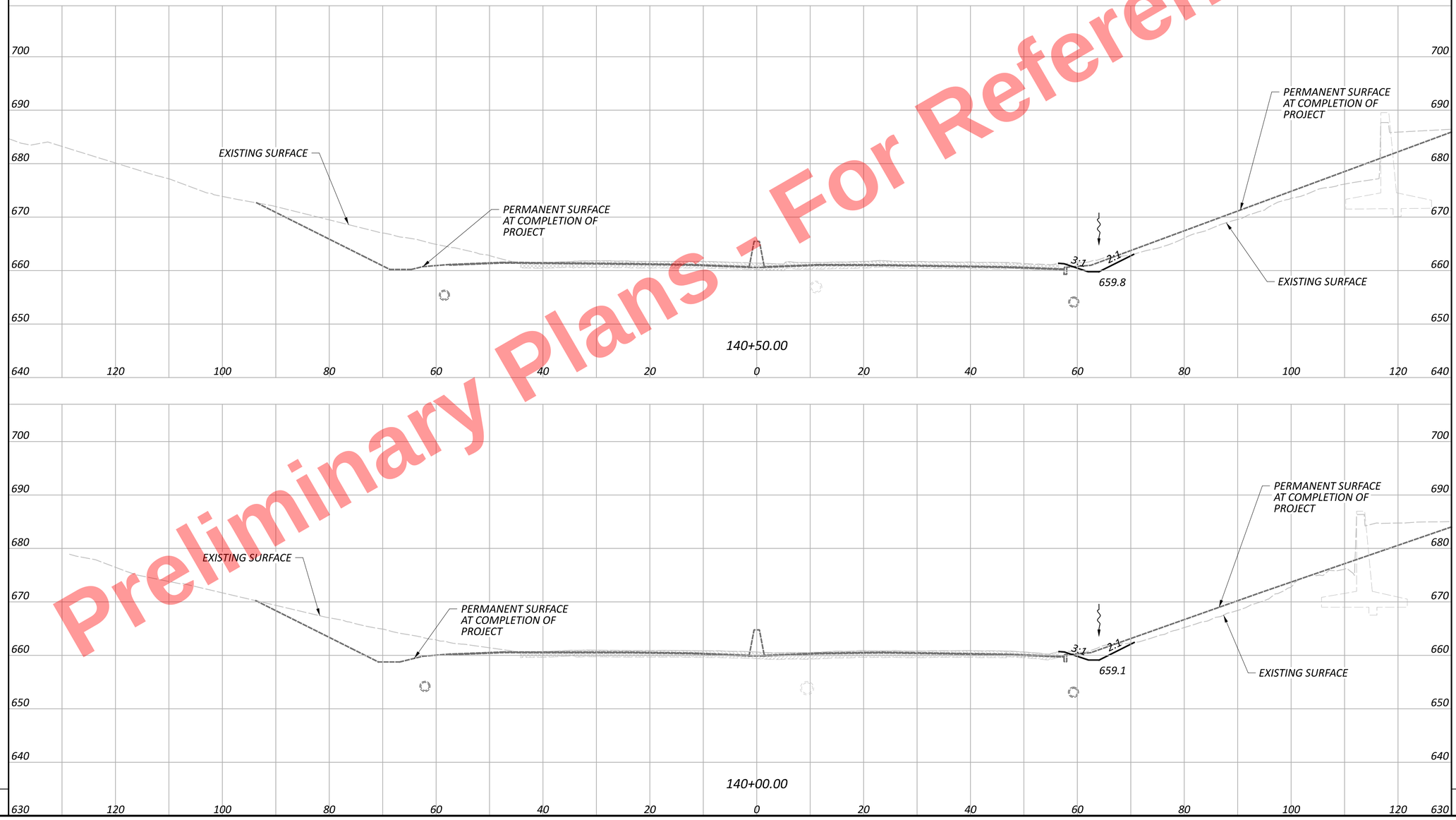
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 140+00.00 TO STA. 140+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.239 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 140+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:33 PM USER: kperkins
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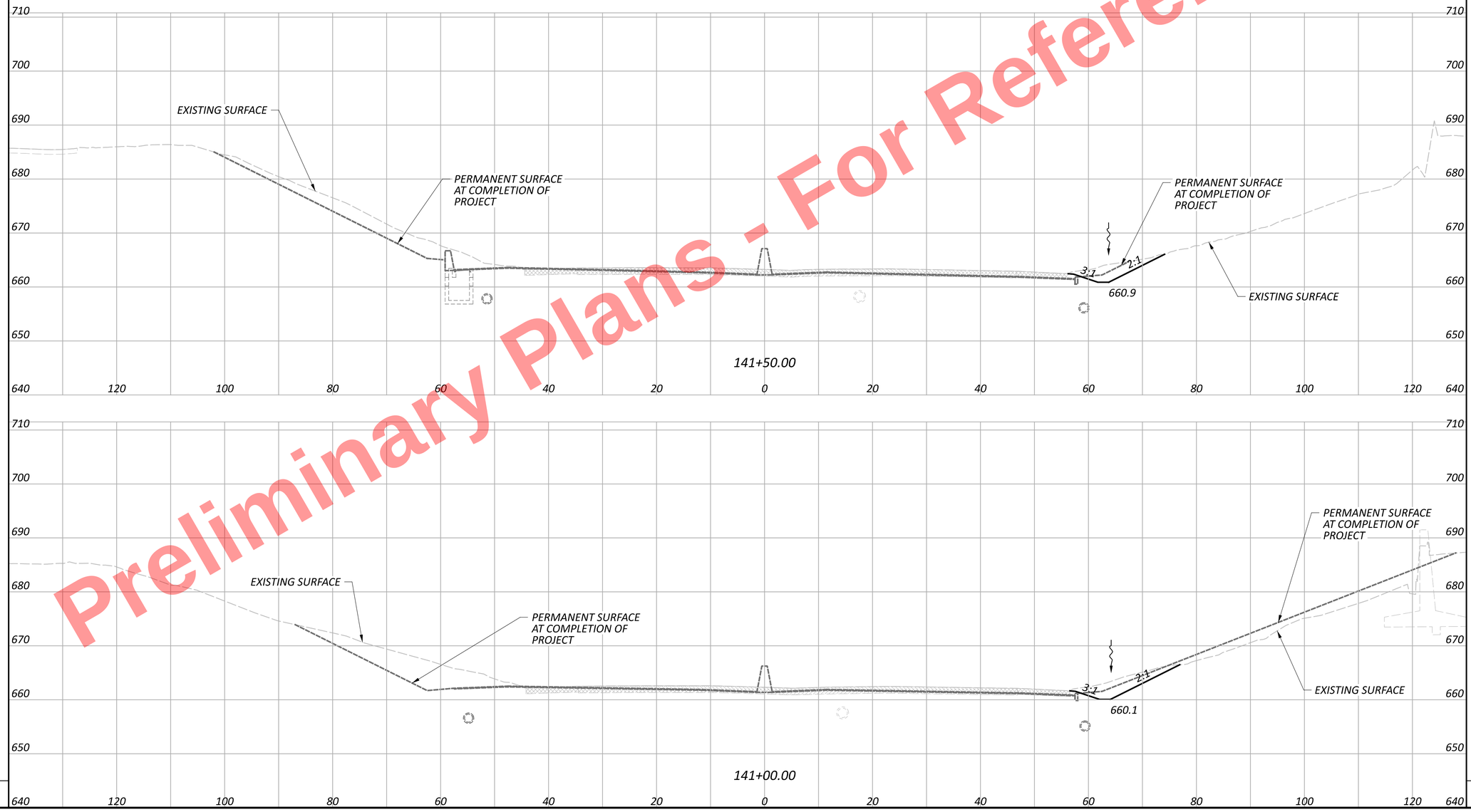
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 141+00.00 TO STA. 141+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 141+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:36 PM USER: kperkins
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| SHEET TOTAL | | | | SHEET TOTALS | | | |
|---|---|---|---|---|---|---|---|

DESIGN AGENCY
HNTB

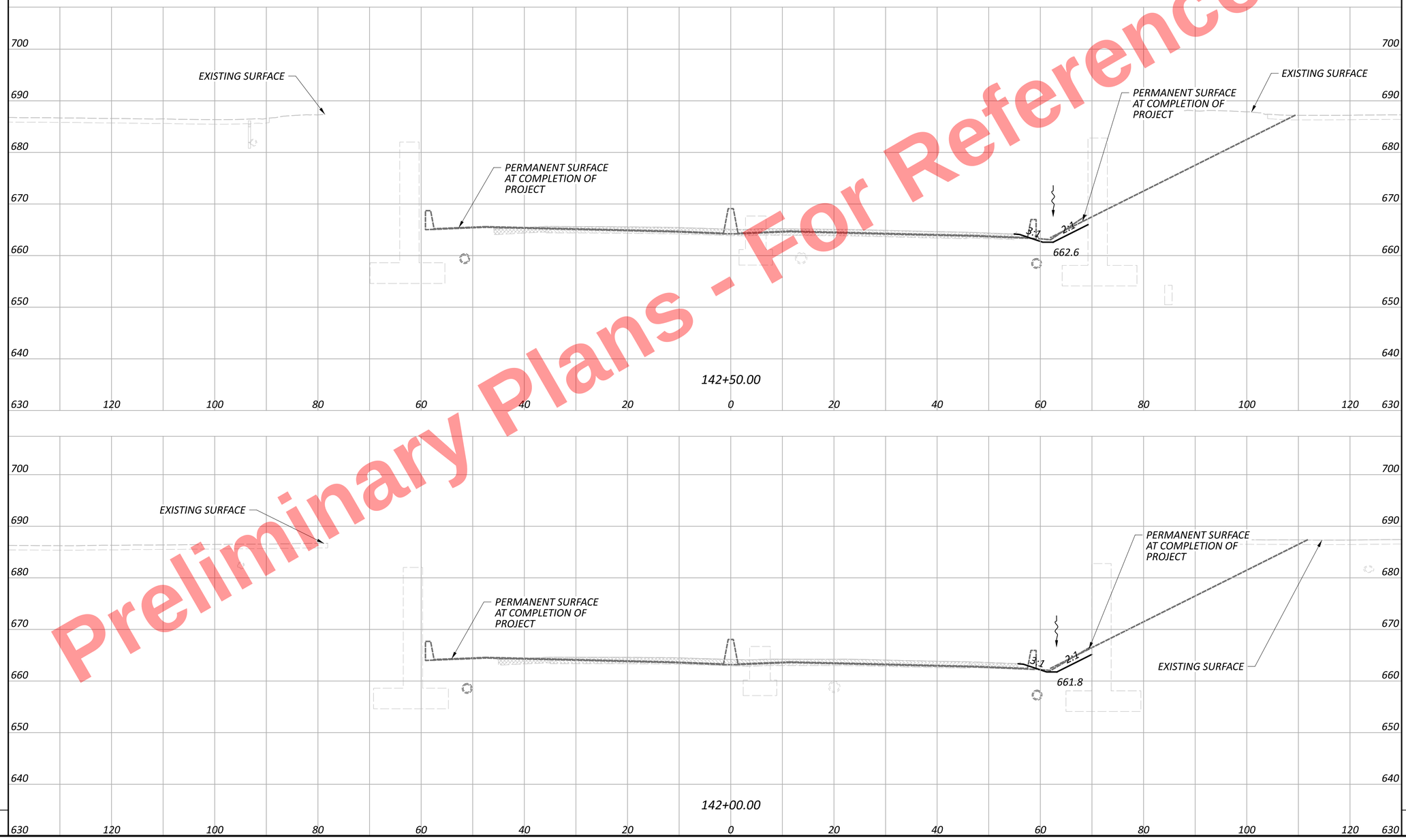
DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.240 | P.1135 |

| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 142+00.00 TO STA. 142+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.241 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 142+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:39 PM USER: kperkins
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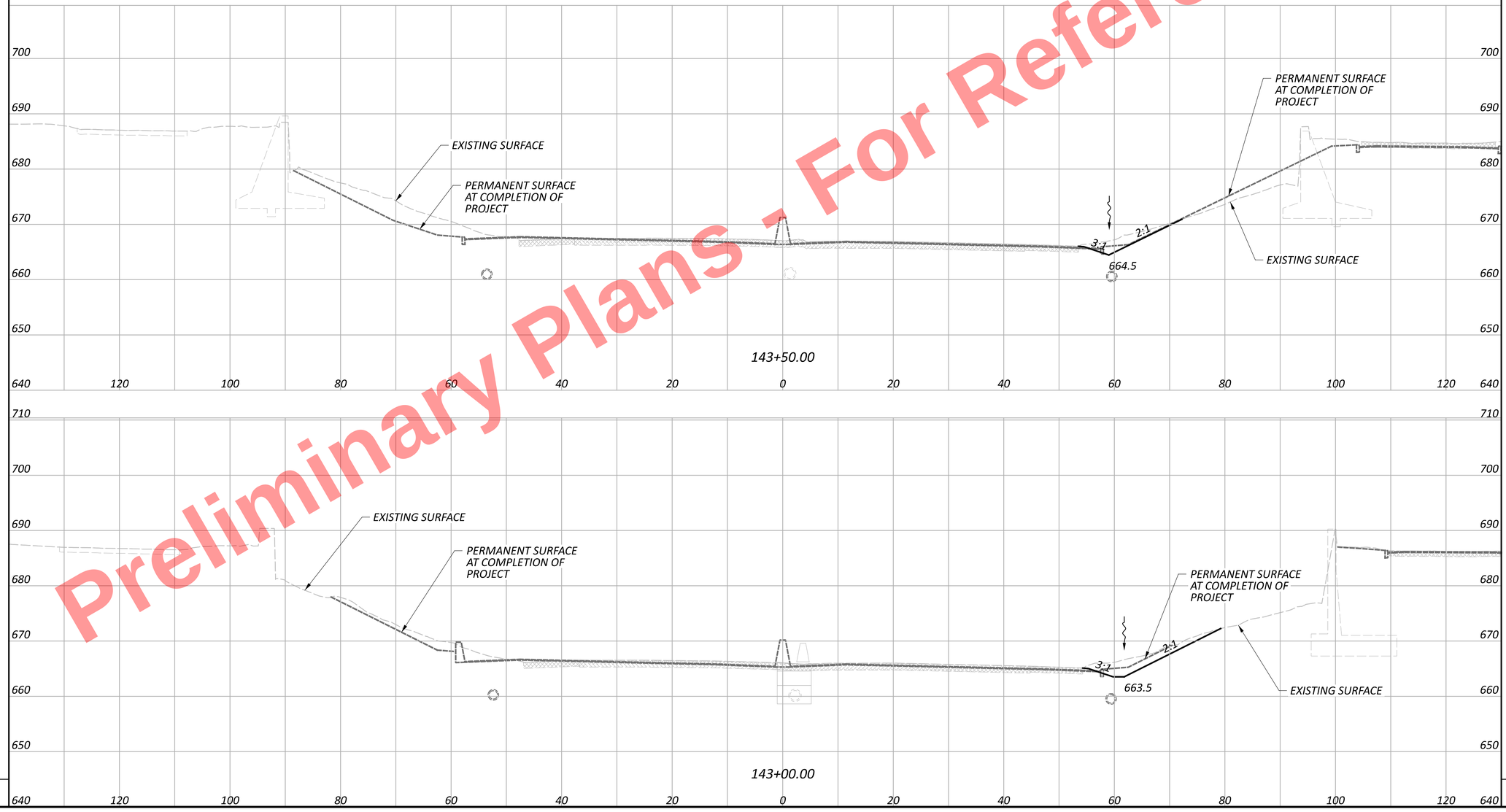
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 143+00.00 TO STA. 143+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.242 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 143+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:42 PM USER: kperkins
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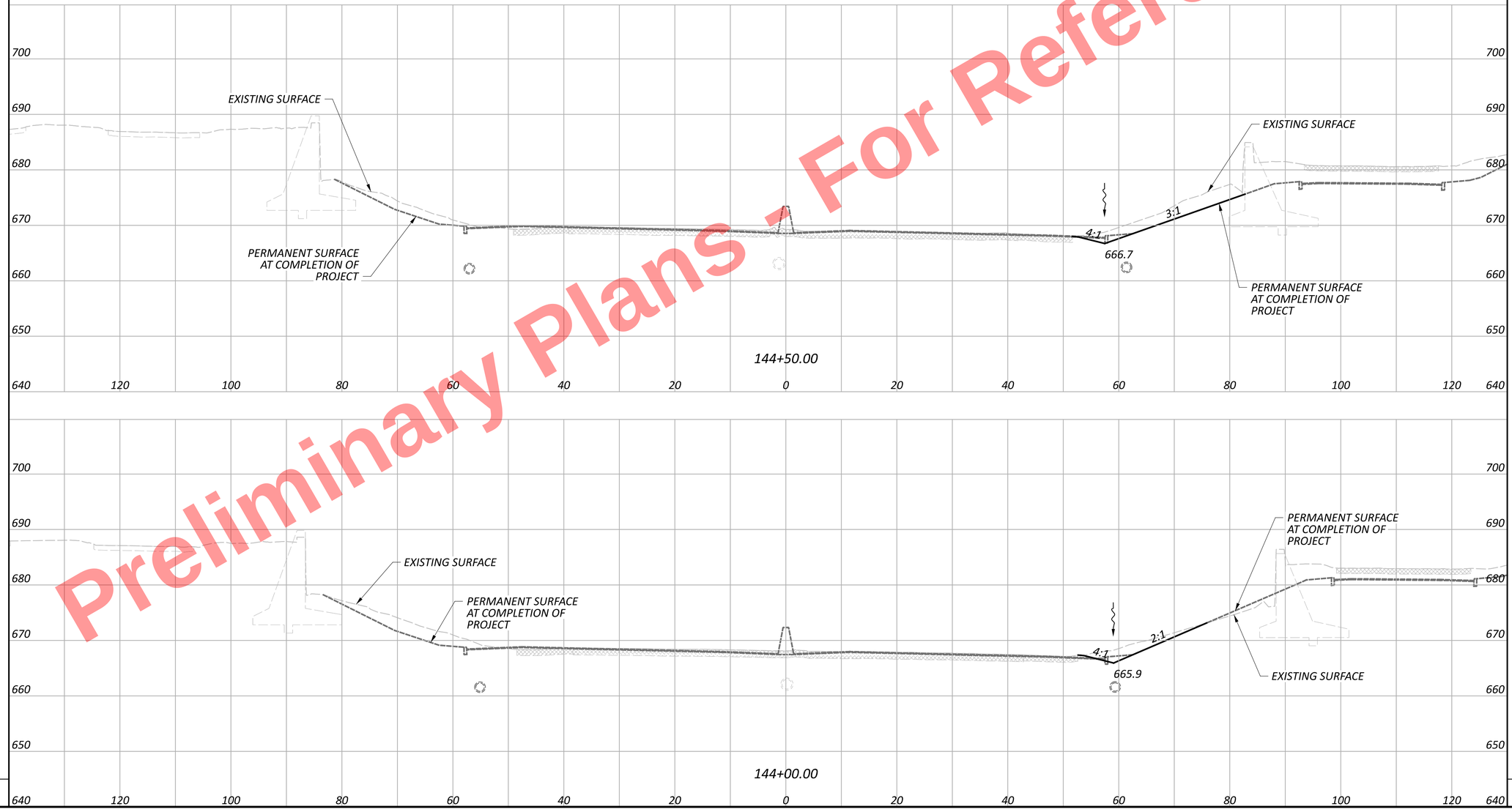
Preliminary Plans - For Reference Only

Preliminary Plans - Not For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




MOT CROSS SECTIONS - I.R. 77
STA. 144+00.00 TO STA. 144+50.00

DESIGN AGENCY

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.243 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 144+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:46 PM USER: kperkins
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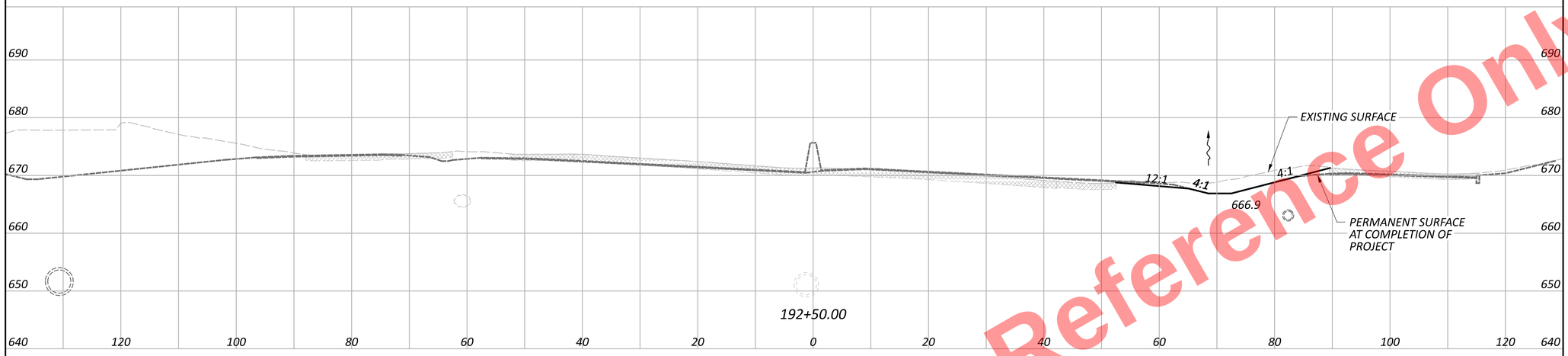
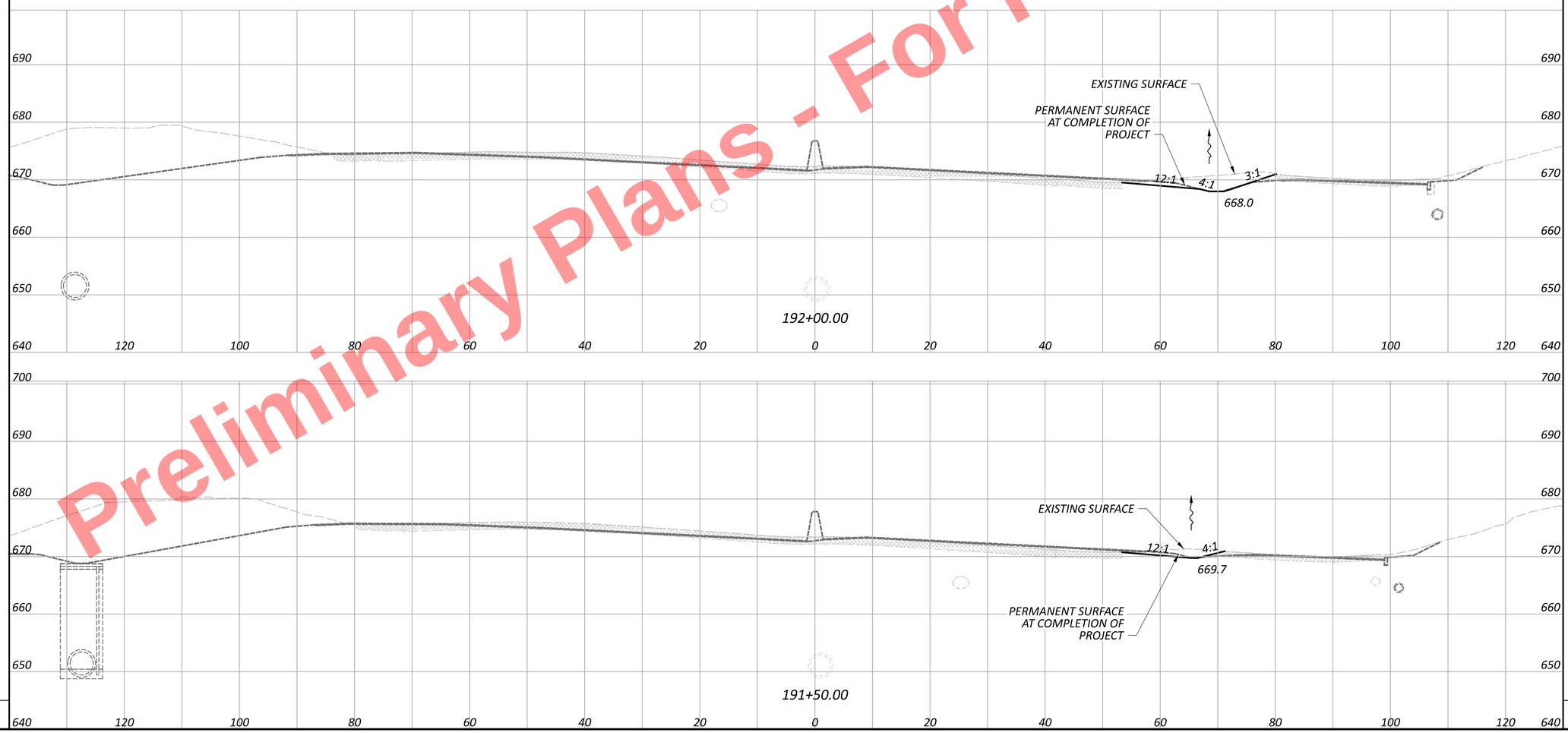
| SEEDING | | END AREA | | VOLUME | |
|---|---|---|---|---|---|
| END WIDTH | SQ. YDS. | CUT | FILL | CUT | FILL |







Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 191+50.00 TO STA. 192+50.00

CUY-77-11.43 - PART 1

SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.244 TOTAL P.1135

MODEL: TempGrading - 191+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:49 PM USER: kperkins
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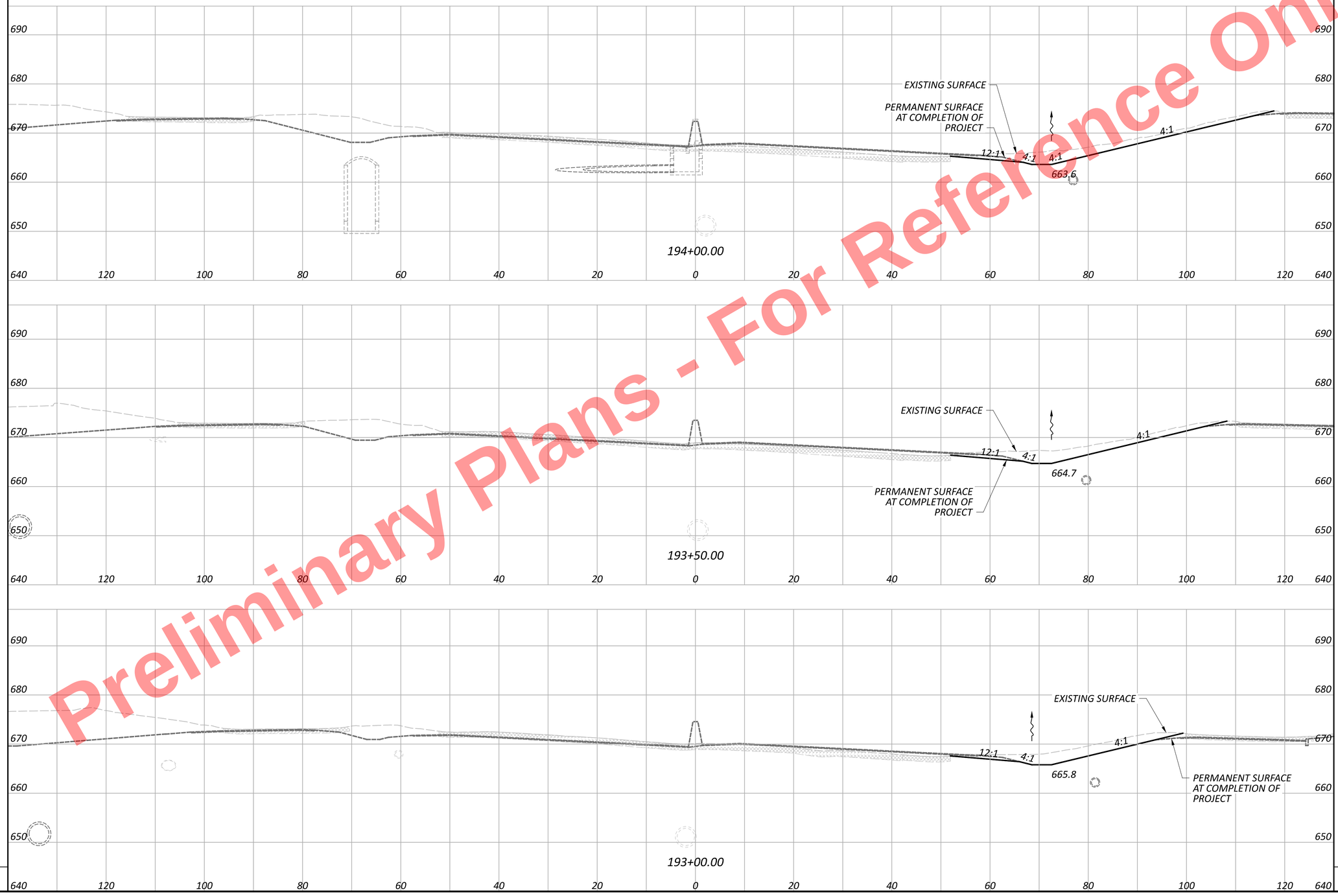
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

| SHEET TOTAL | | | |
|---|---|---|---|

| SHEET TOTALS | | | |
|---|---|---|---|

MOT CROSS SECTIONS - I.R. 77
STA. 193+00.00 TO STA. 194+00.00

DESIGN AGENCY
HNTB

| DESIGNER | |
|---|---|
| AS | |
| REVIEWER | |
| MTR | 10/24/25 |
| PROJECT ID | |
| 105743 | |
| SHEET | TOTAL |
| P.245 | P.1135 |

CUY-77-11.43 - PART 1

MODEL: TempGrading - 193+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:15:57 PM USER: kperkins
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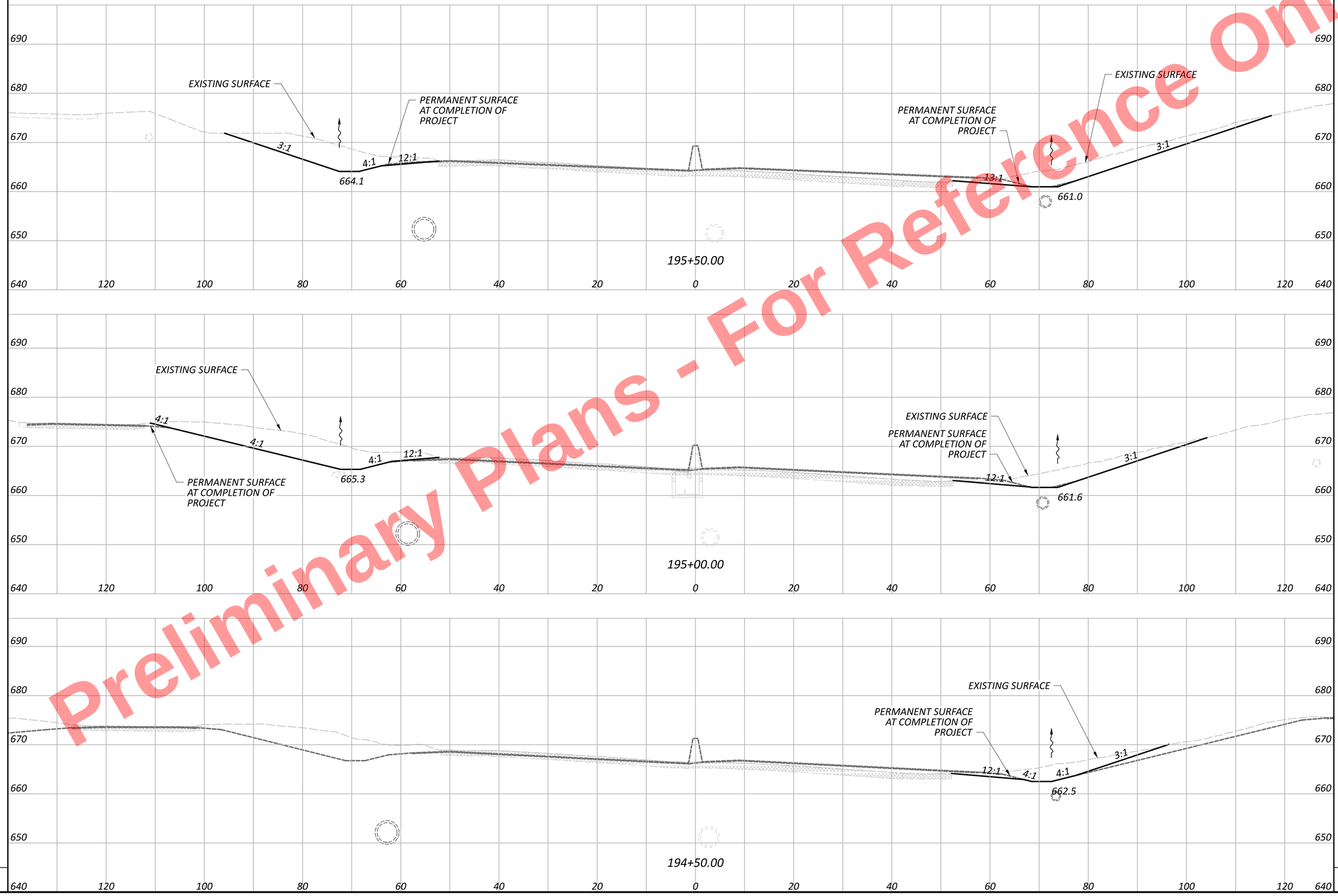
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 194+50.00 TO STA. 195+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.246 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 194+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:00 PM USER: kperkins
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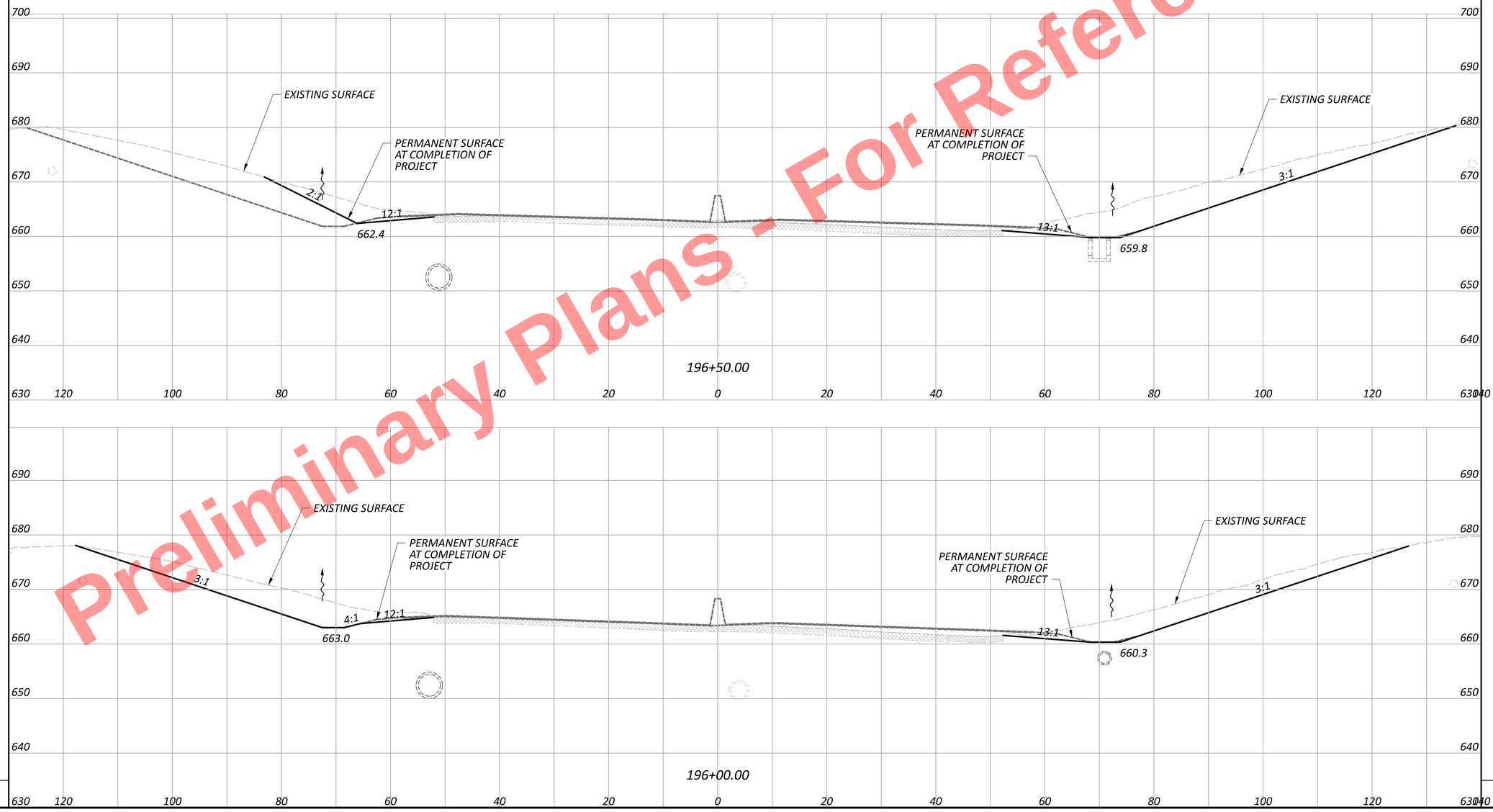
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 196+00.00 TO STA. 196+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.247 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 196+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:03 PM USER: kperkins
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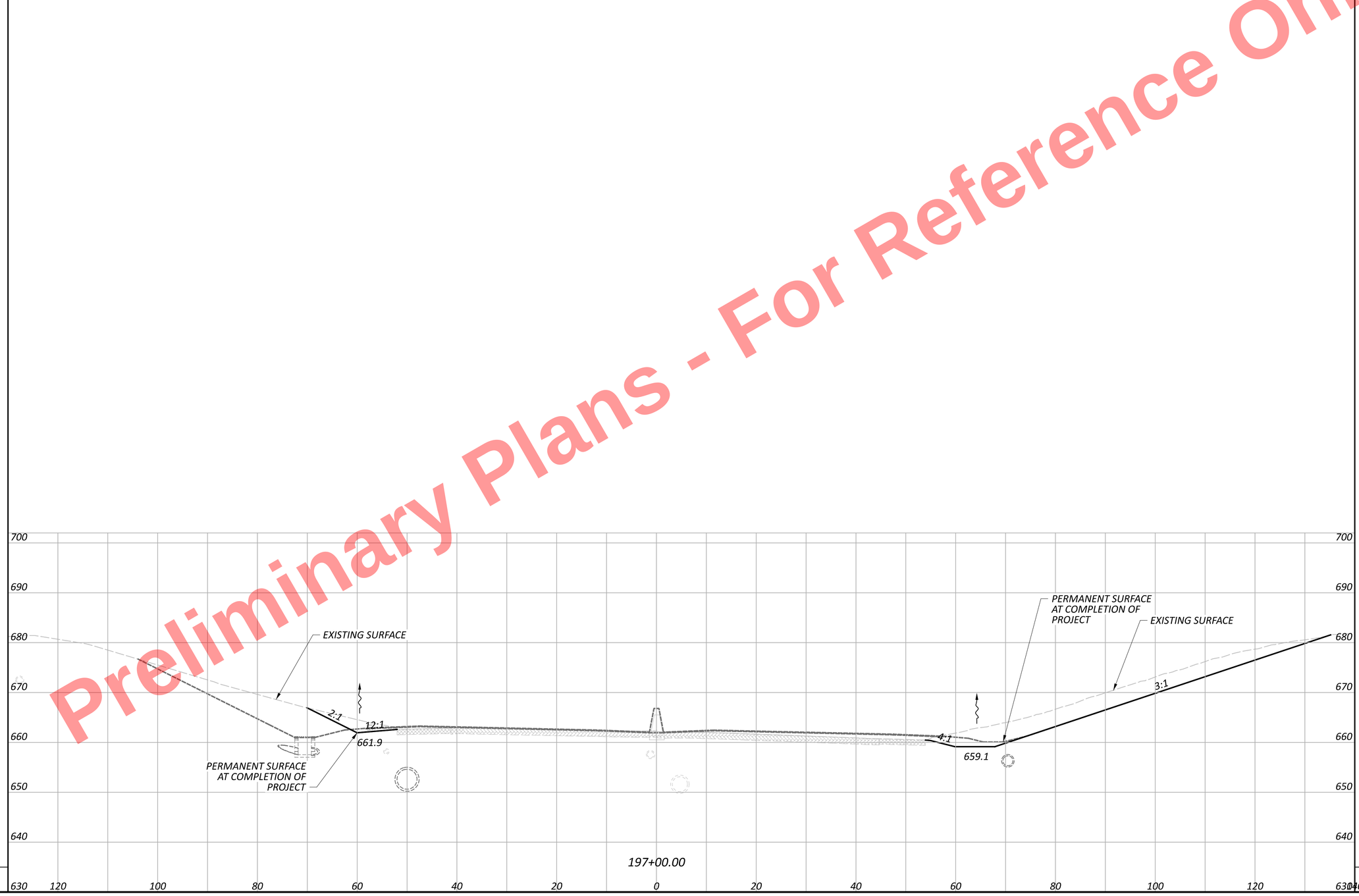
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |




MOT CROSS SECTIONS - I.R. 77
STA. 197+00.00

MOT

CUY-77-11.43 - PART 1

MODEL: TempGrading - 197+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:05 PM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

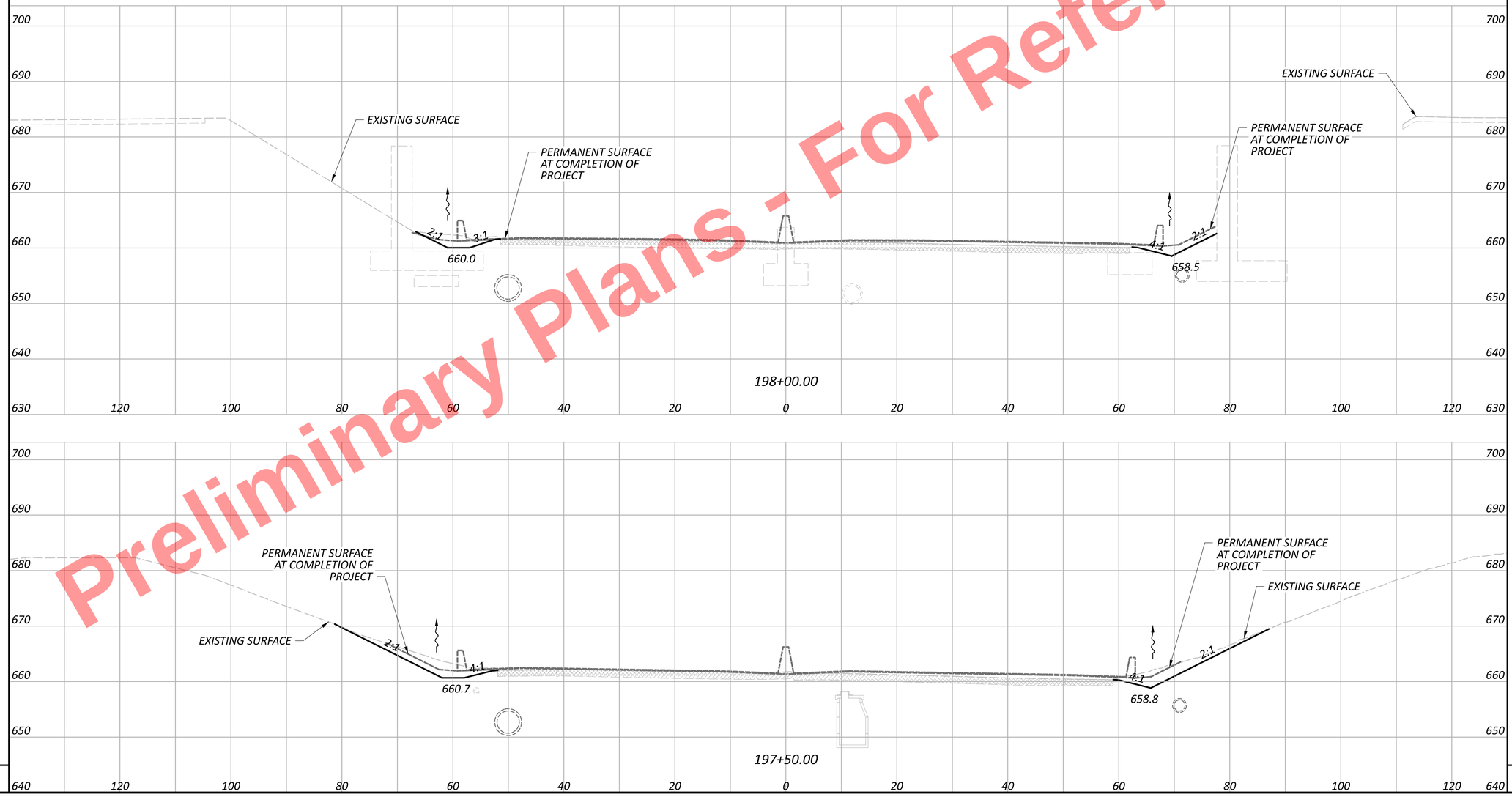
PROJECT ID
105743

SHEET P.248 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 197+50.00 TO STA. 198+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.249 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 197+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:07 PM USER: kperkins
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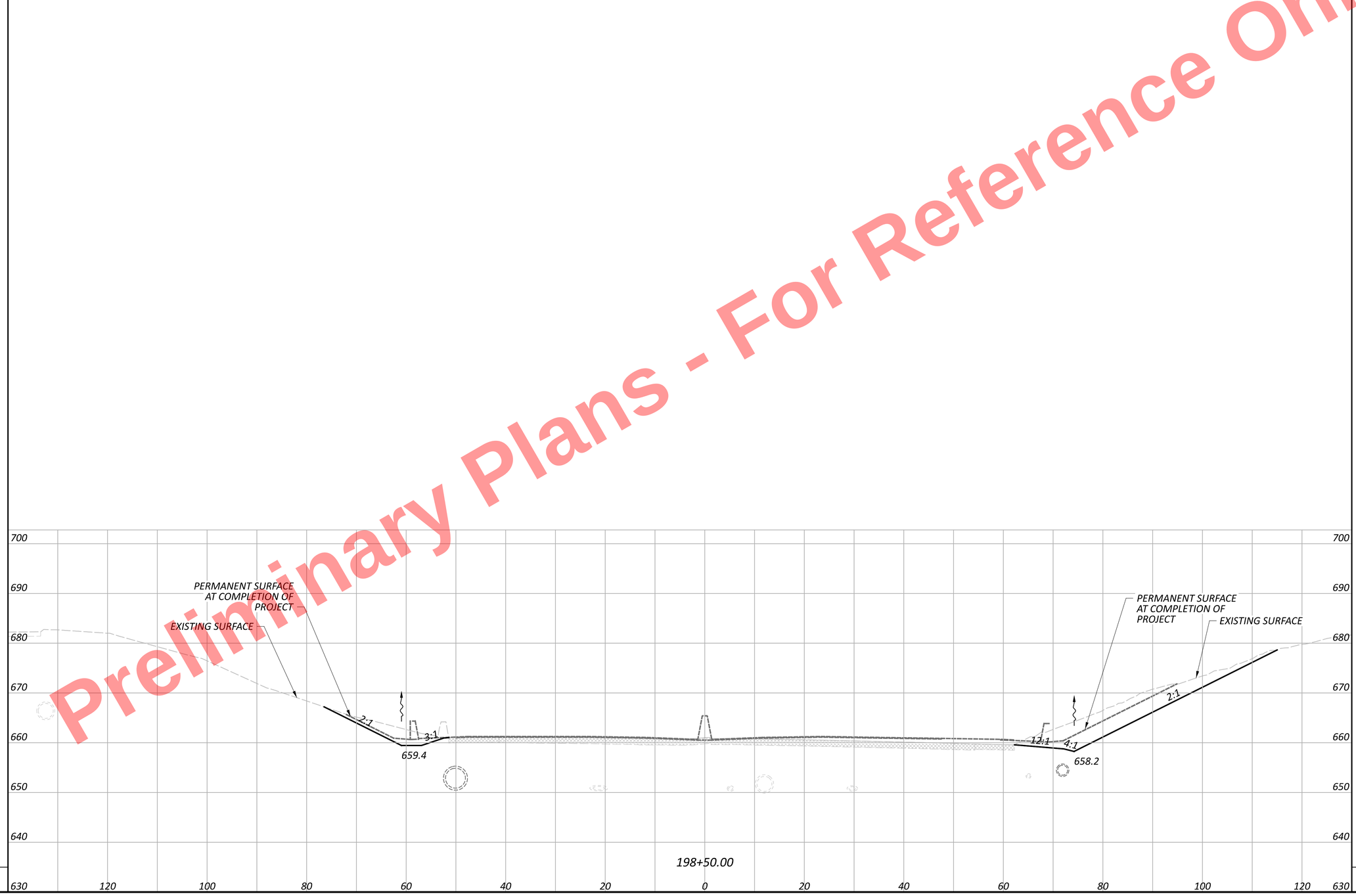
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 198+50.00 TO STA. 199+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.250 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

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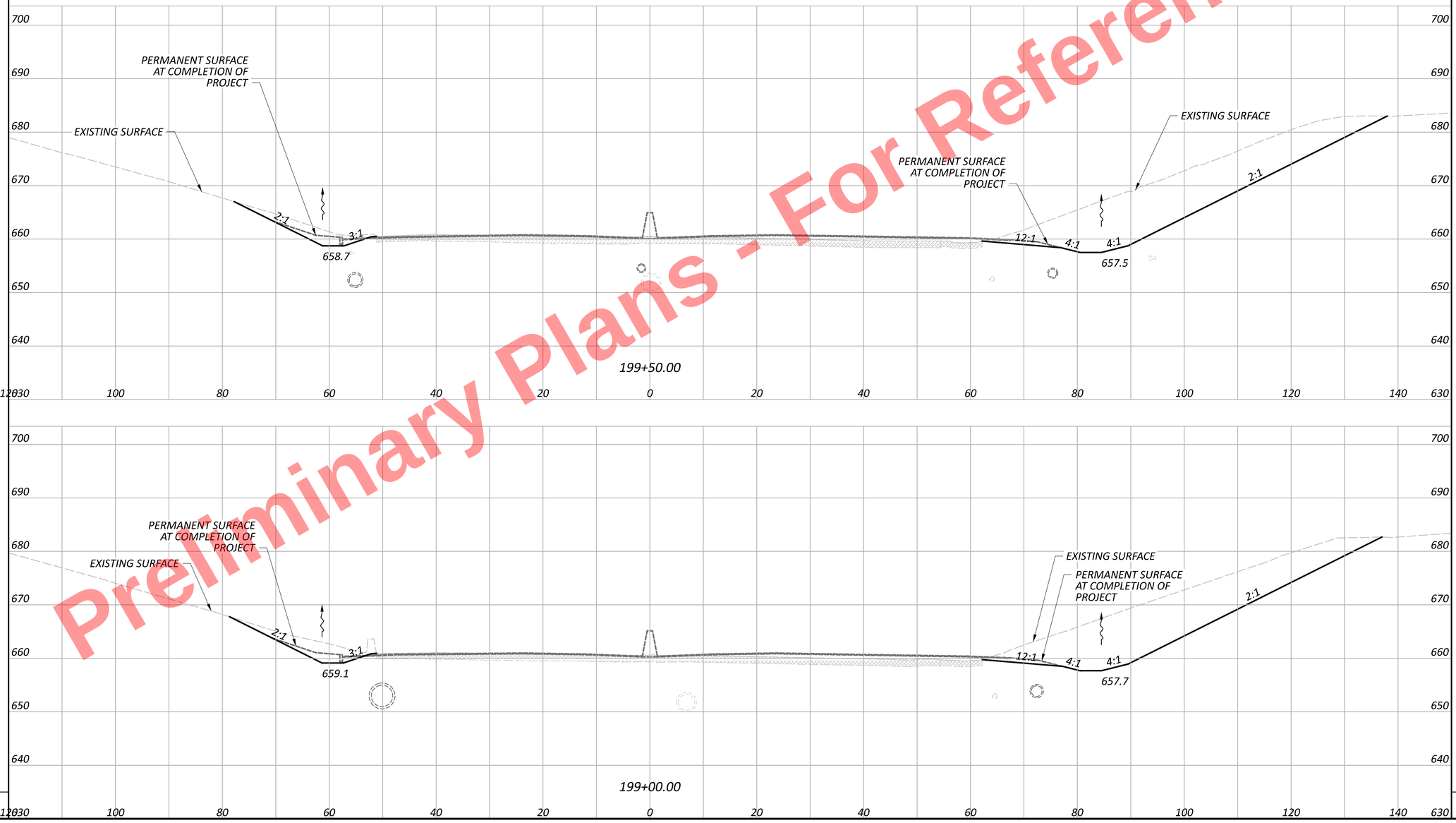
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 199+00.00 TO STA. 199+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET TOTAL

SHEET TOTALS

SHEET P.251 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: TempGrading - 199+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:11 PM USER: kperkins
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| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 200+00.00 TO STA. 200+50.00

DESIGN AGENCY
HNTB

| DESIGNER | REVIEWER | PROJECT ID |
|---|---|---|
| AS | MTR 10/24/25 | 105743 |

| SHEET | TOTAL |
|---|---|
| P.252 | P.1135 |

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 200+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:13 PM USER: kperkins
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Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 201+00.00 TO STA. 201+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 201+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:16 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

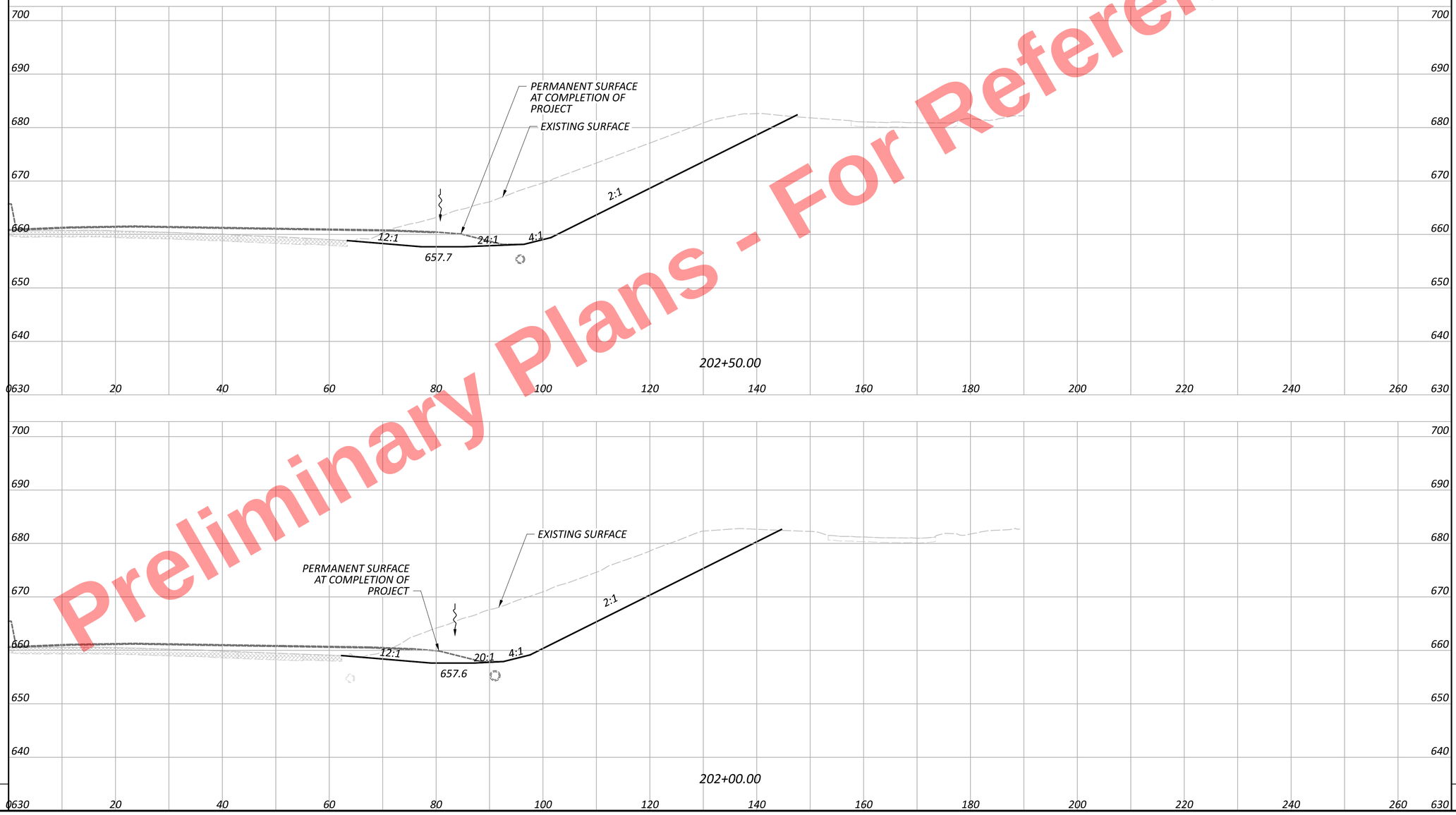
REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.253 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 202+00.00 TO STA. 202+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 202+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:18 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.254 TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 203+00.00 TO STA. 203+50.00

CUY-77-11.43 - PART 1

MODEL: TempGrading - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:21 PM USER: kperkins
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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

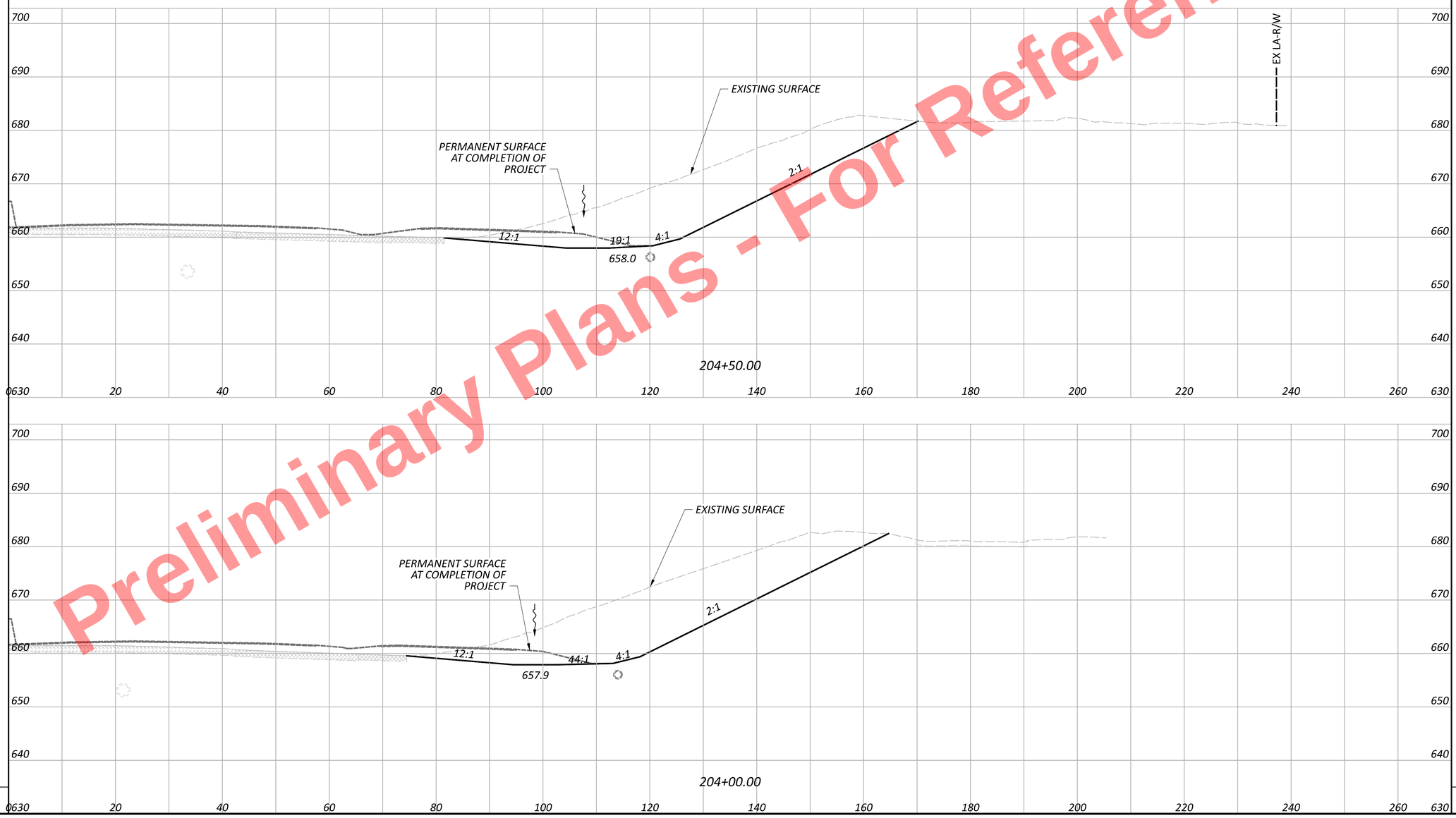
DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.255 | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

MOT CROSS SECTIONS - I.R. 77
STA. 204+00.00 TO STA. 204+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.256 | TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 204+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:23 PM USER: kperkins
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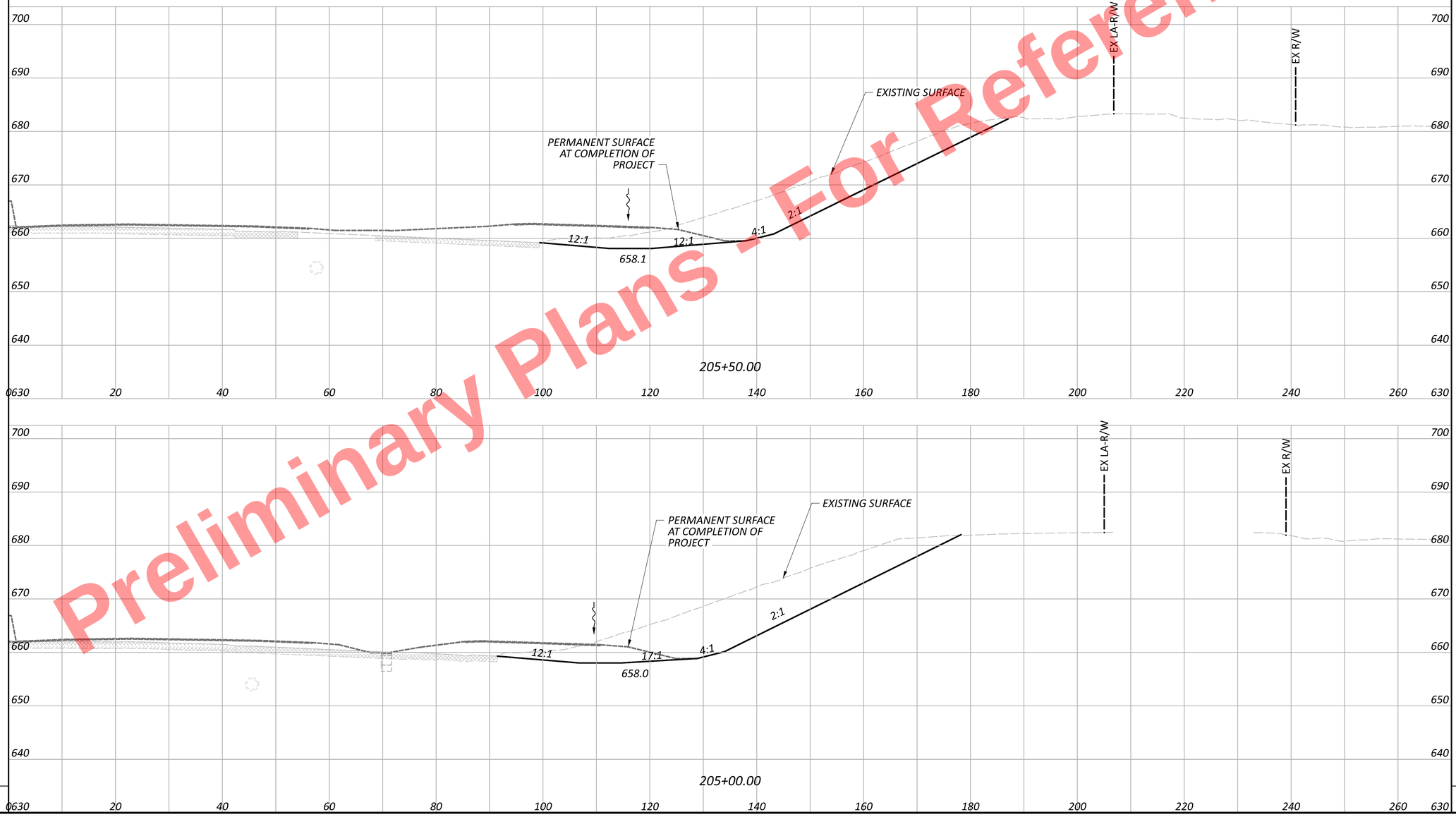
Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |




| SHEET TOTAL | | |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |




Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 206+00.00 TO STA. 206+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.258 TOTAL P.1135

SHEET TOTAL

SHEET TOTALS

CUY-77-11.43 - PART 1

MODEL: TempGrading - 206+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:16:28 PM USER: kperkins
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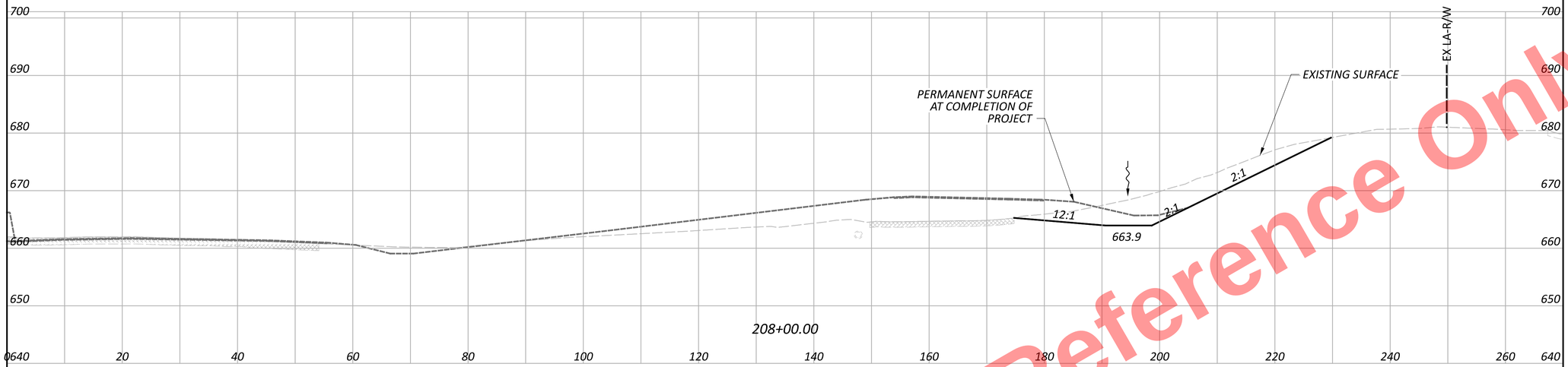
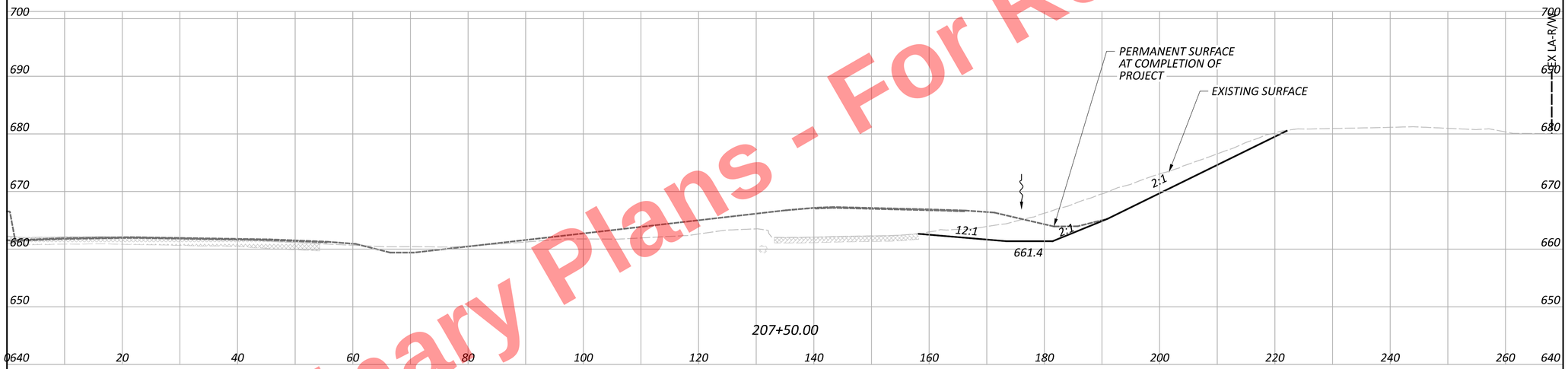
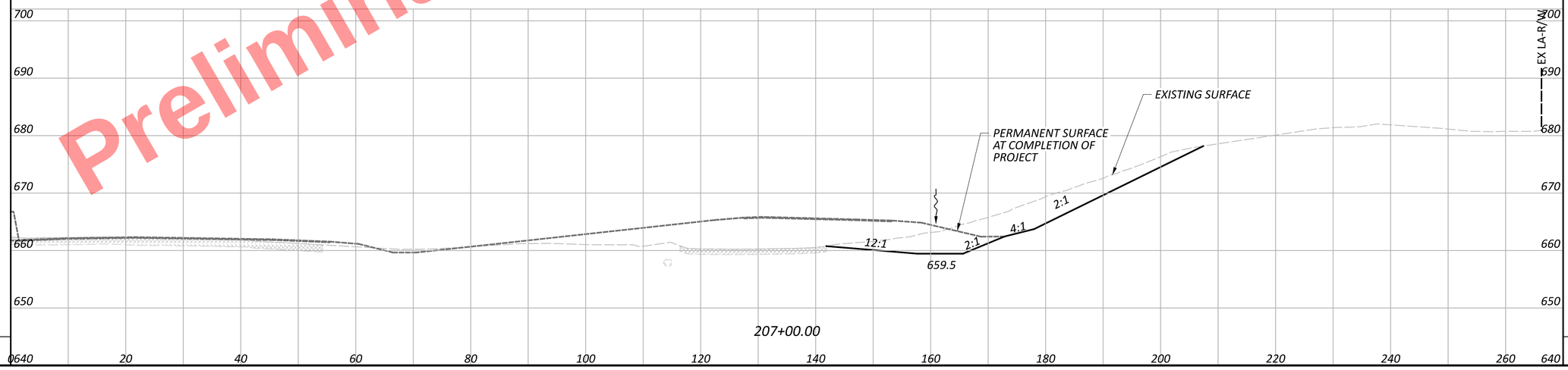
| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | |
|---|---|
| CUT | FILL |

| VOLUME | |
|---|---|
| CUT | FILL |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

MOT CROSS SECTIONS - I.R. 77
STA. 207+00.00 TO STA. 208+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

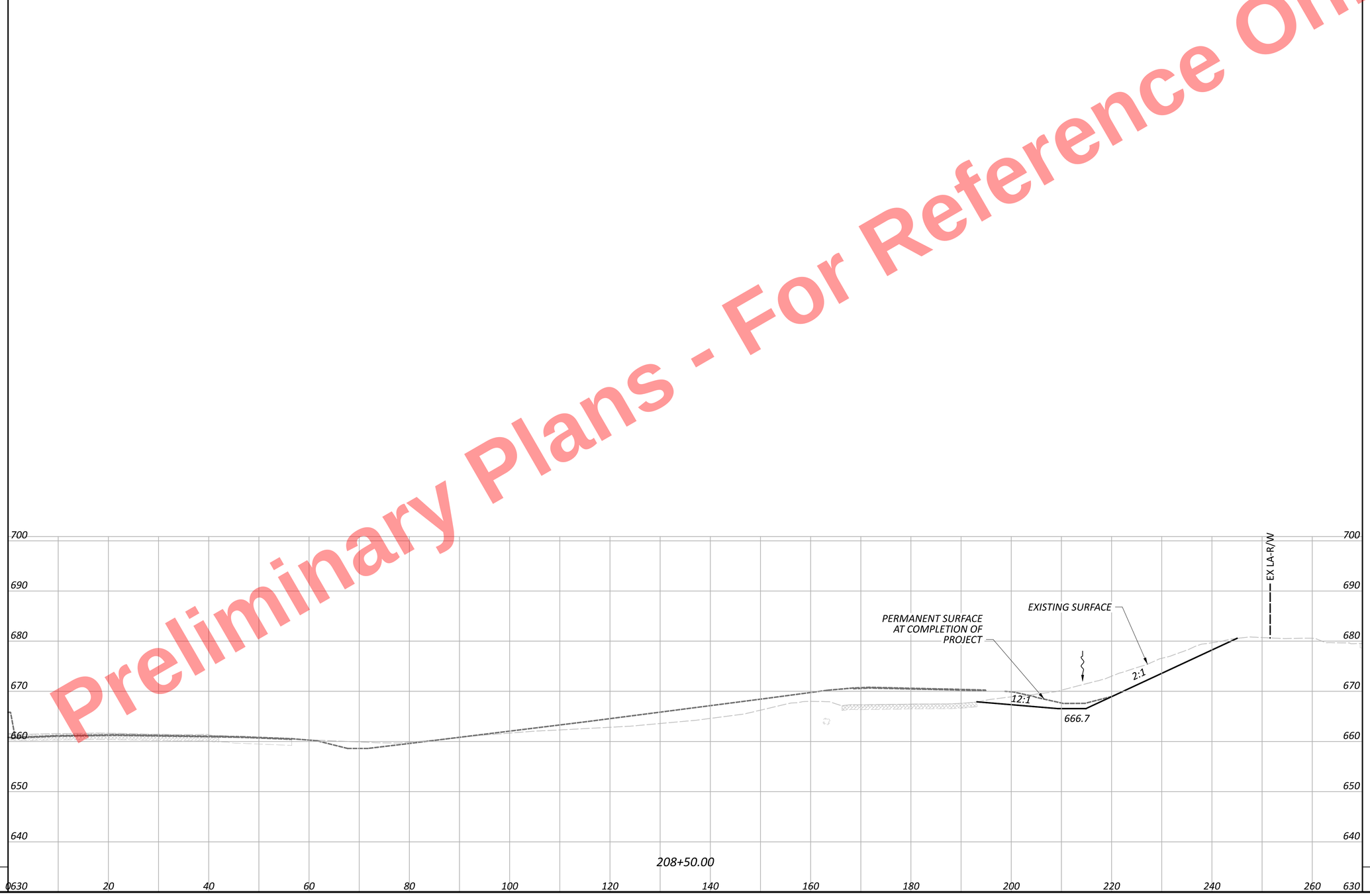
PROJECT ID
105743

SHEET P.259 | TOTAL P.1135

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

Preliminary Plans - For Reference Only




MOT CROSS SECTIONS - I.R. 77
STA. 208+50.00

CUY-77-11.43 - PART 1

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SHEET TOTAL

SHEET TOTALS

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.260 TOTAL P.1135

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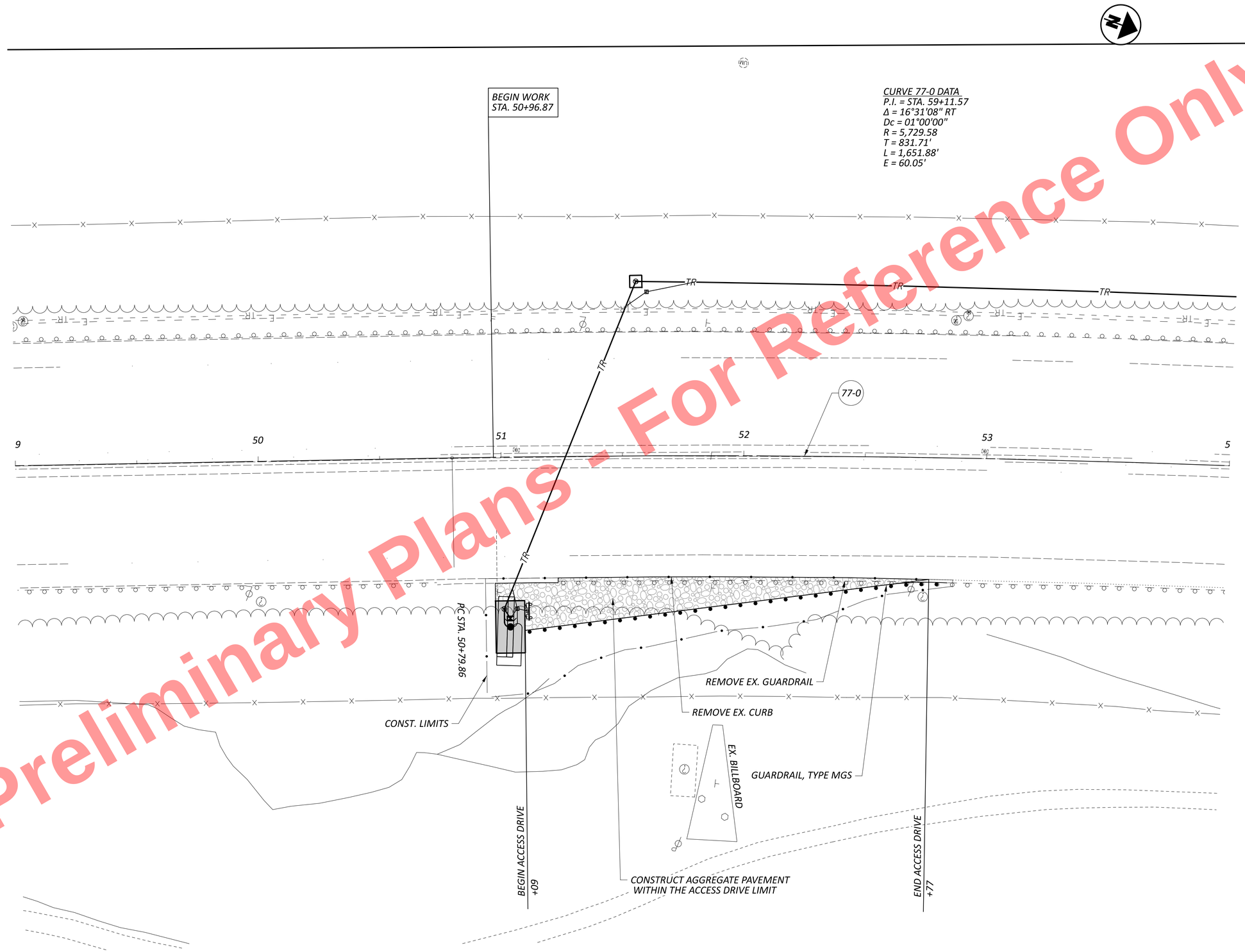
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Engineering\Roadway\Sheets\105743_GP105.dgn

CUY-77-11.43 - PART 1




Preliminary Plans - For Reference Only

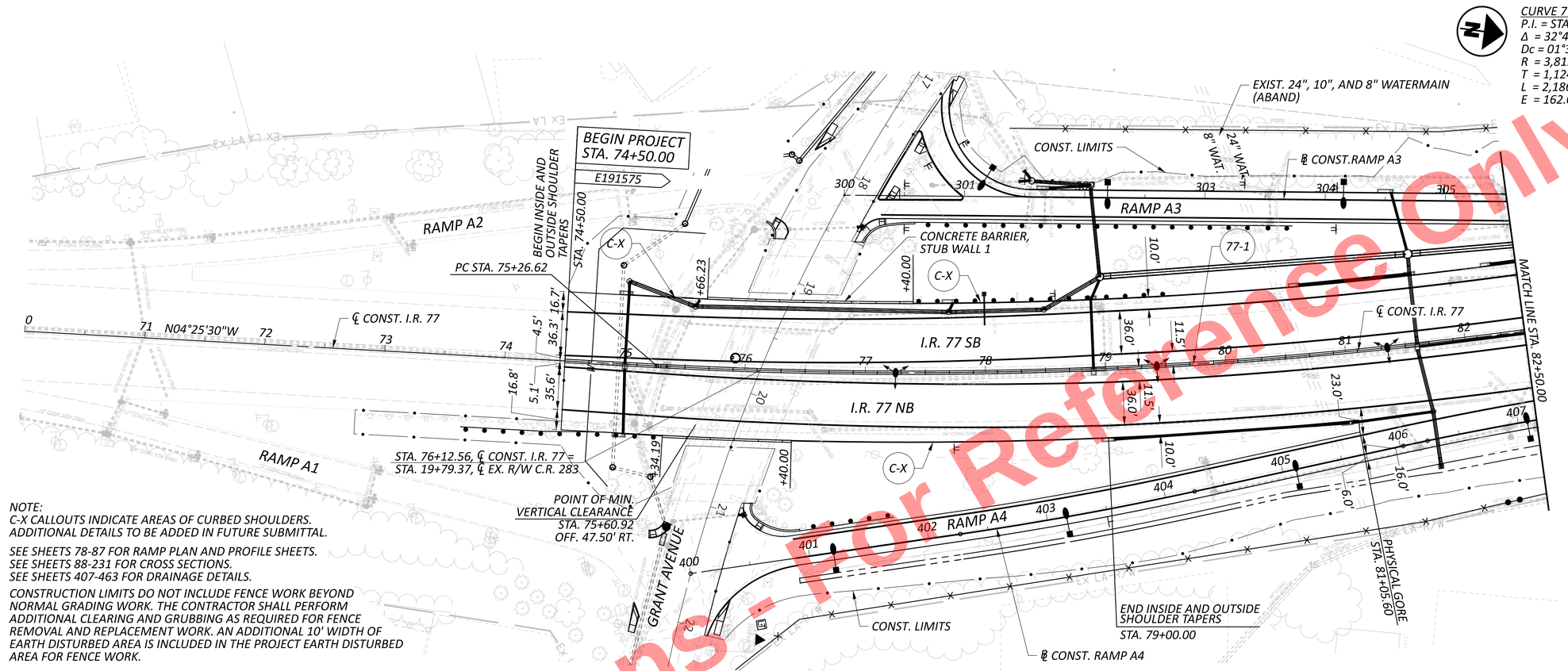
HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN. I.R. 77
STA. 49+50.00 TO STA. 54+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | CLC |
| REVIEWER | KKP 11-20-25 |
| PROJECT ID | 105743 |
| SHEET | P.261 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




PLAN AND PROFILE - I.R. 77
STA. 70+00.00 STA. 82+50.00

CUY-77-11.43 - PART 1

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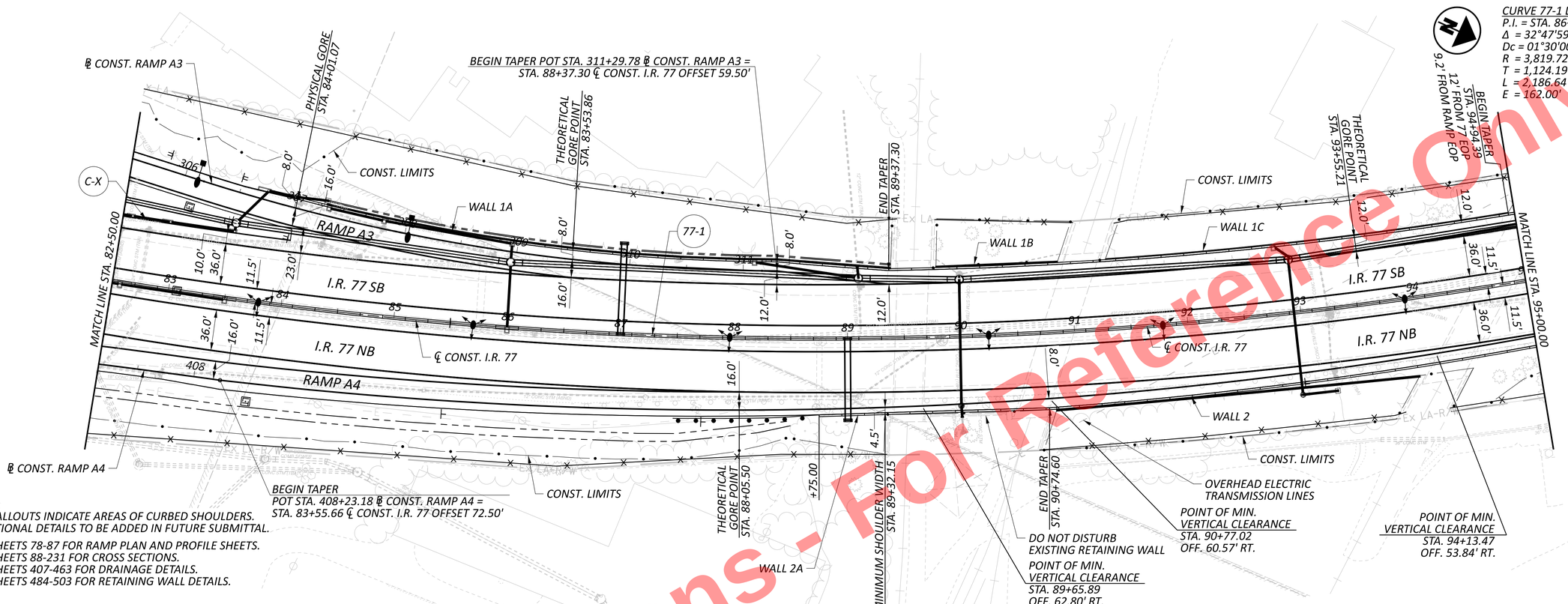
DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

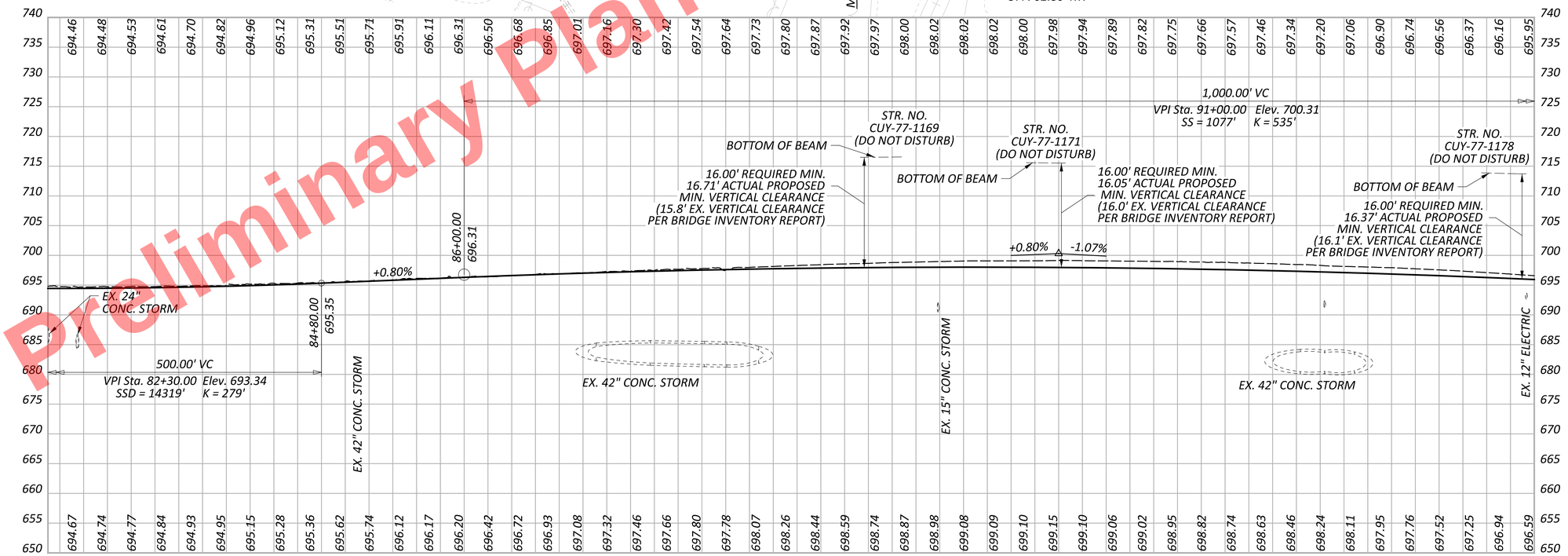
PROJECT ID
105743

SHEET P.262 | TOTAL P.1135




NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

SEE SHEETS 78-87 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS.




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# PLAN AND PROFILE - I.R. 77
# STA. 82+50.00 TO STA. 95+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.263 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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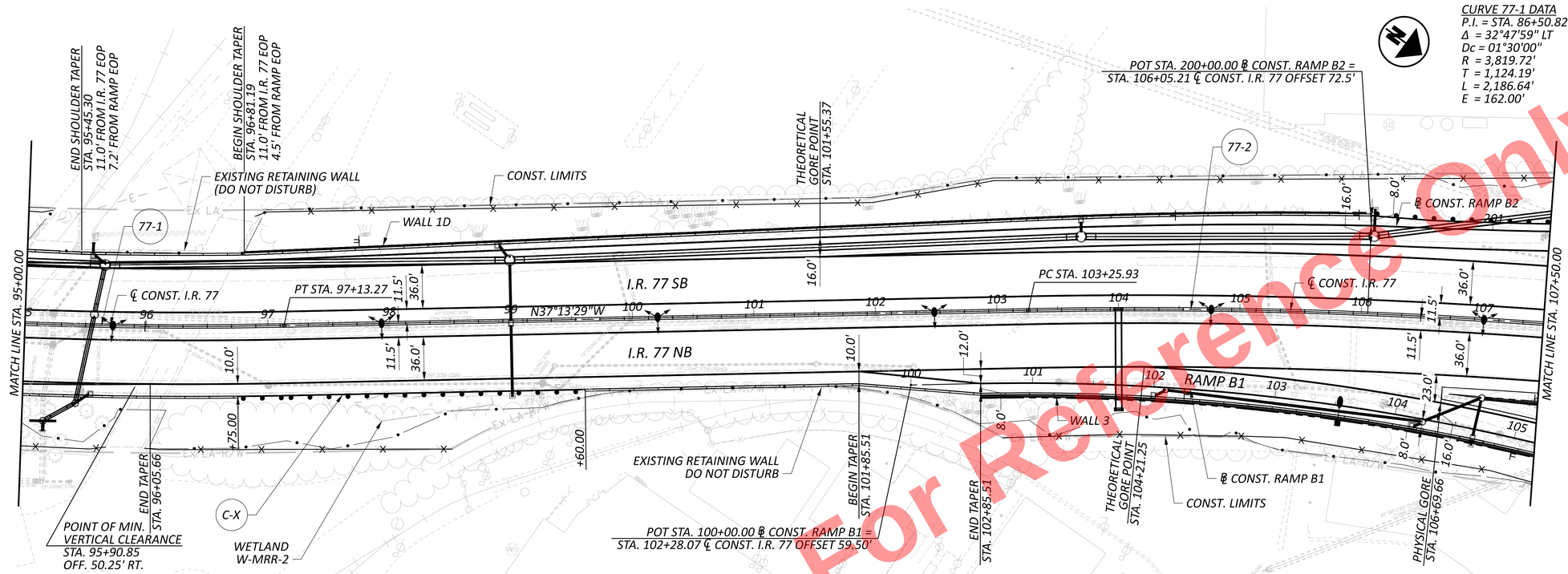
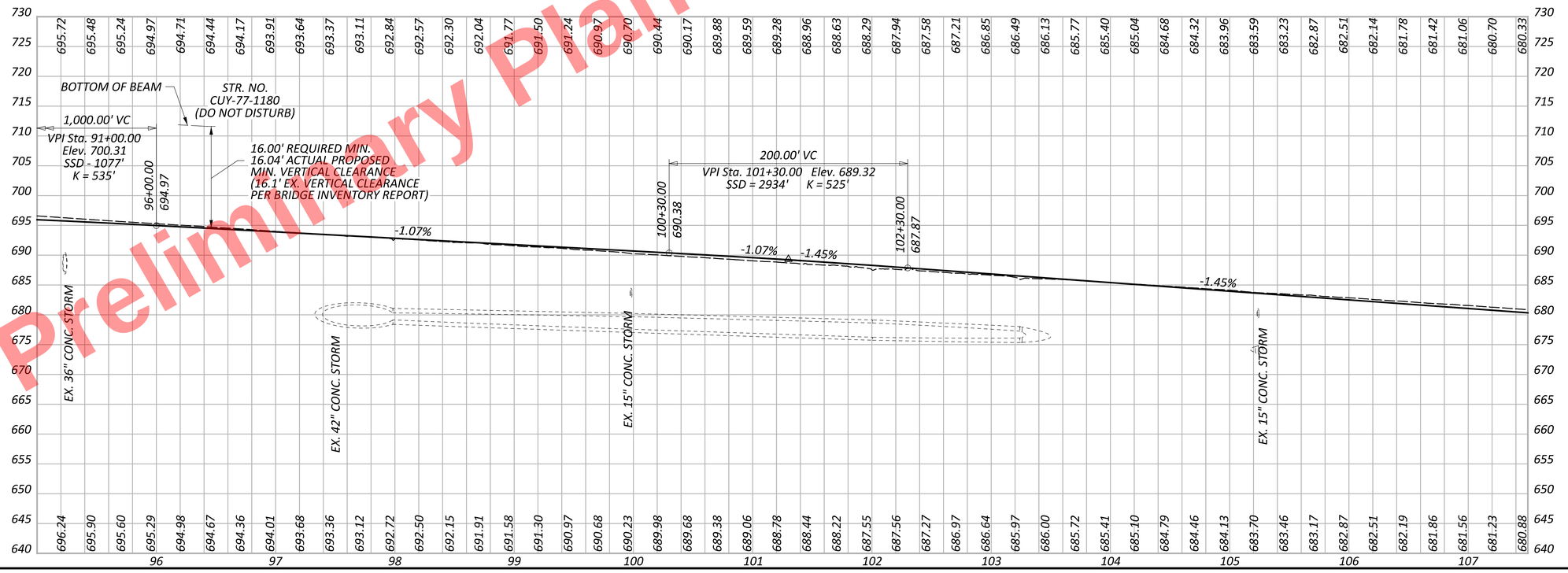



NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

SEE SHEETS 78-87 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS.




Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 95+00.00 TO STA. 107+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.264 TOTAL P.1135

CUY-77-11.43 - PART 1

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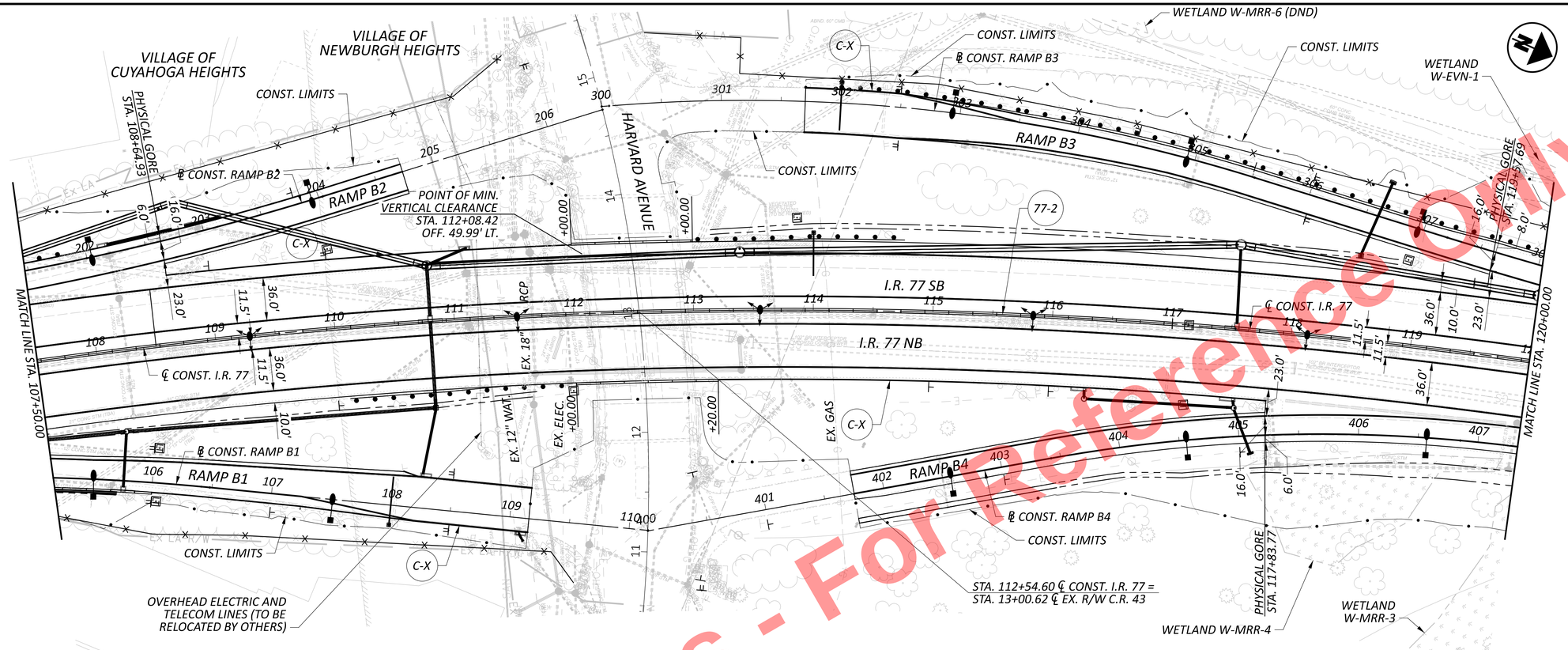
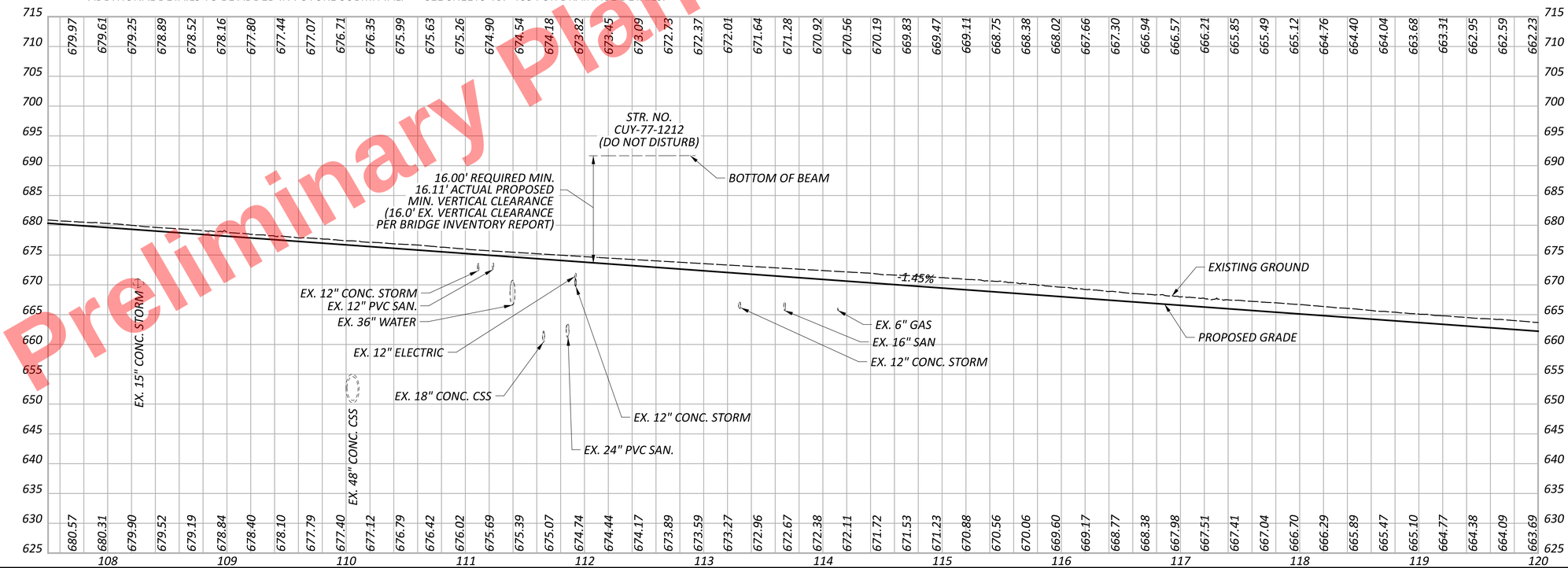



NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

SEE SHEETS 78-87 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.




Preliminary Plans - For Reference Only

# PLAN AND PROFILE - I.R. 77
# STA. 107+50.00 TO STA. 120+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.265 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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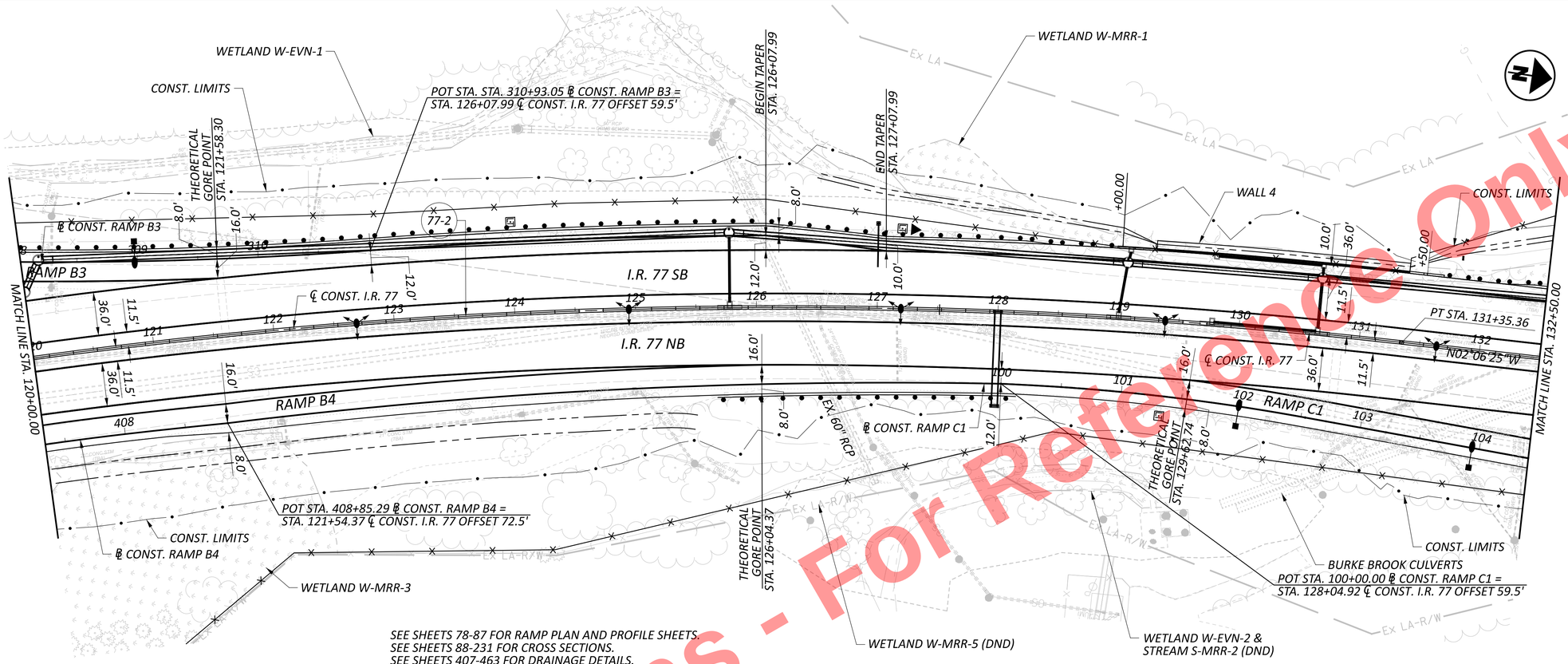
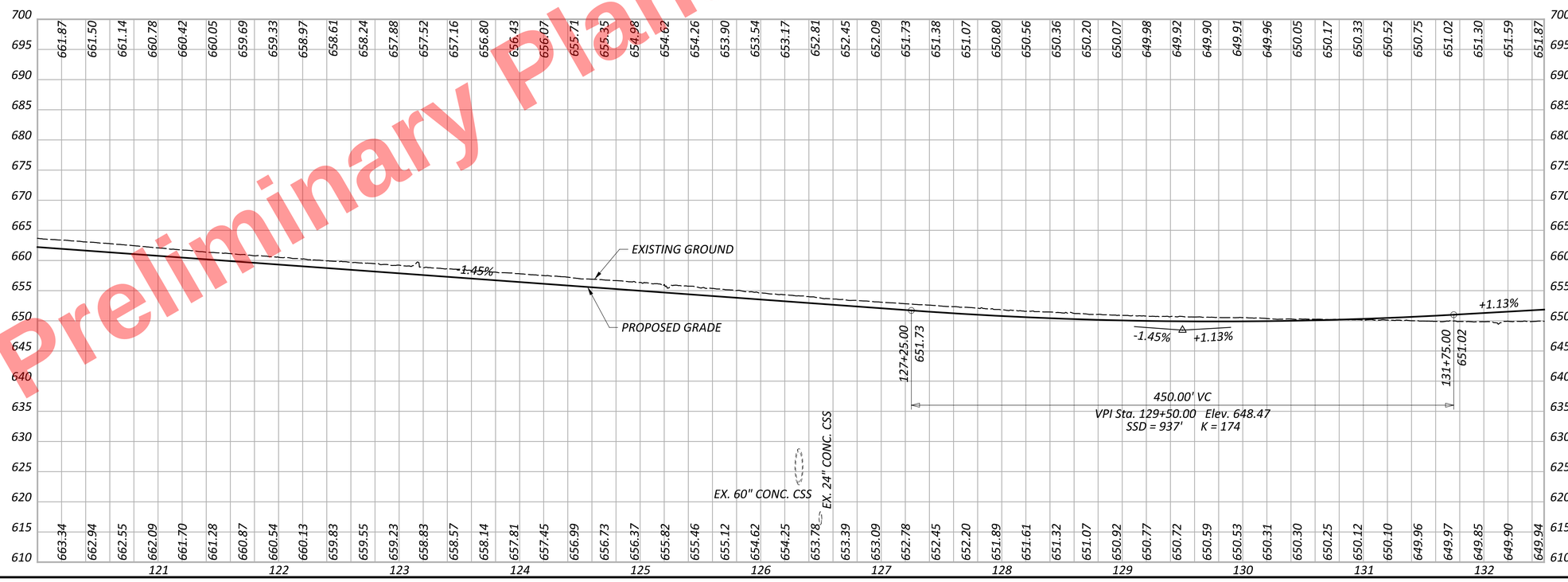
Preliminary Plans - For Reference Only




# PLAN AND PROFILE - I.R. 77
# STA. 120+00.00 TO STA. 132+50.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:18 PM USER: kperkins
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DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: KKP 04/01/22
PROJECT ID: 105743
SHEET: P.266 TOTAL: P.1135

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:20 PM USER: kperkins
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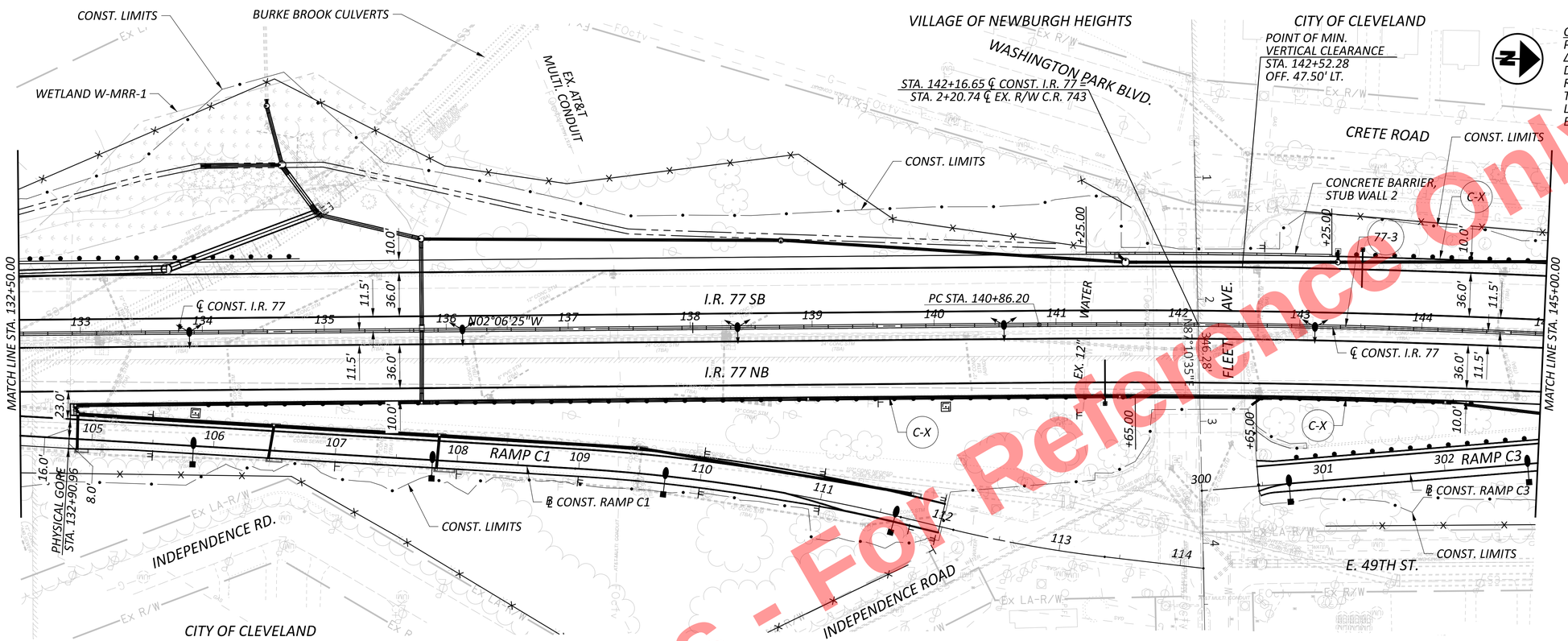
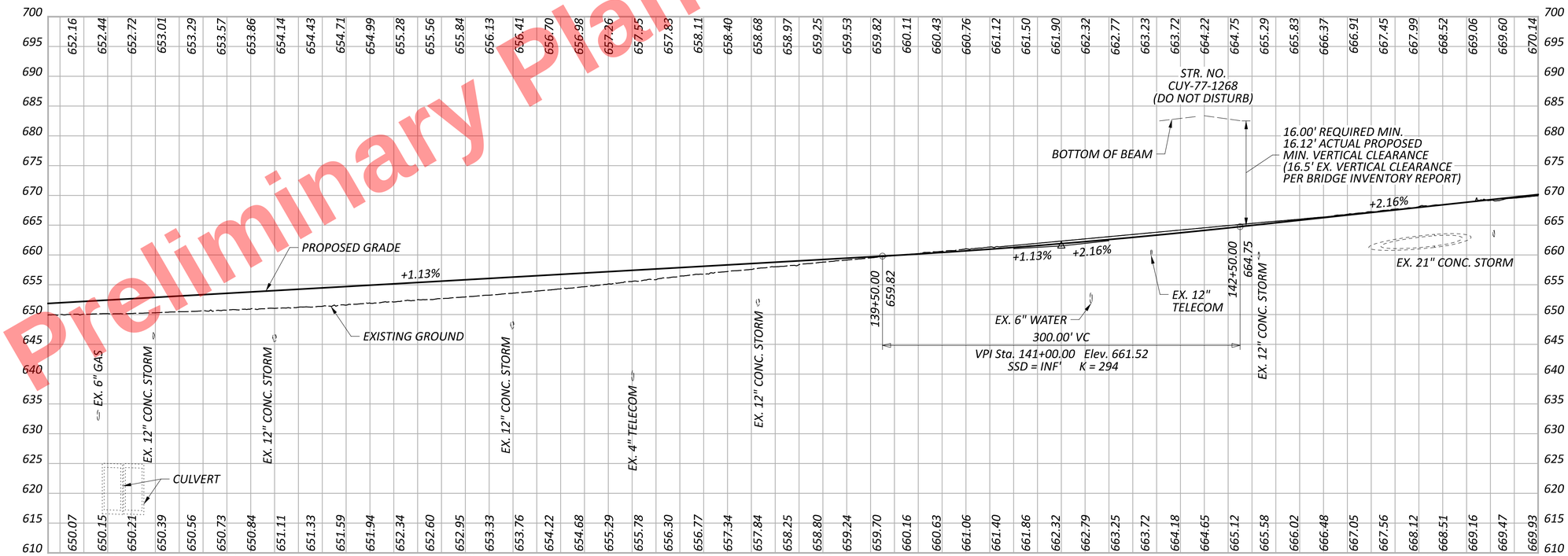



NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

SEE SHEETS 78-87 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.

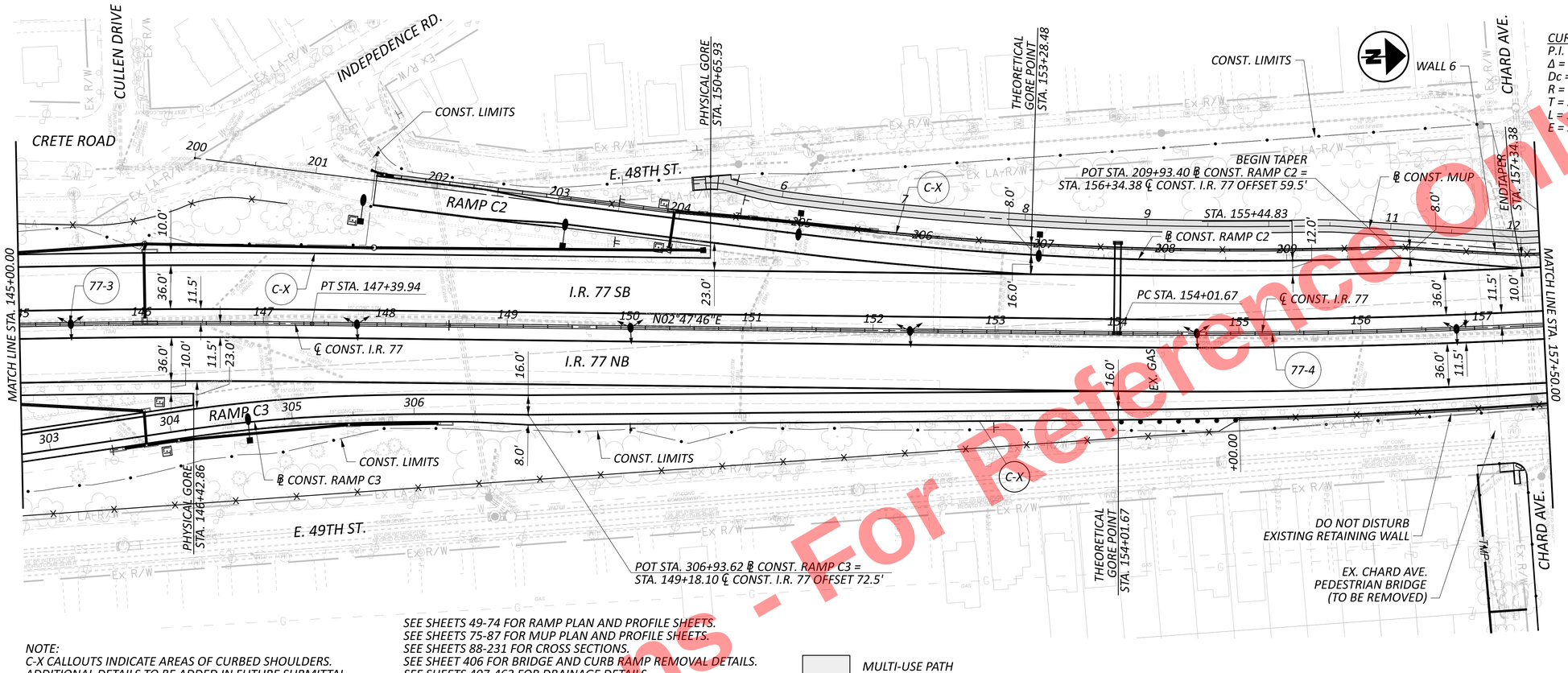



Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 132+50.00 TO STA. 145+00.00

DESIGN AGENCY
HNTB

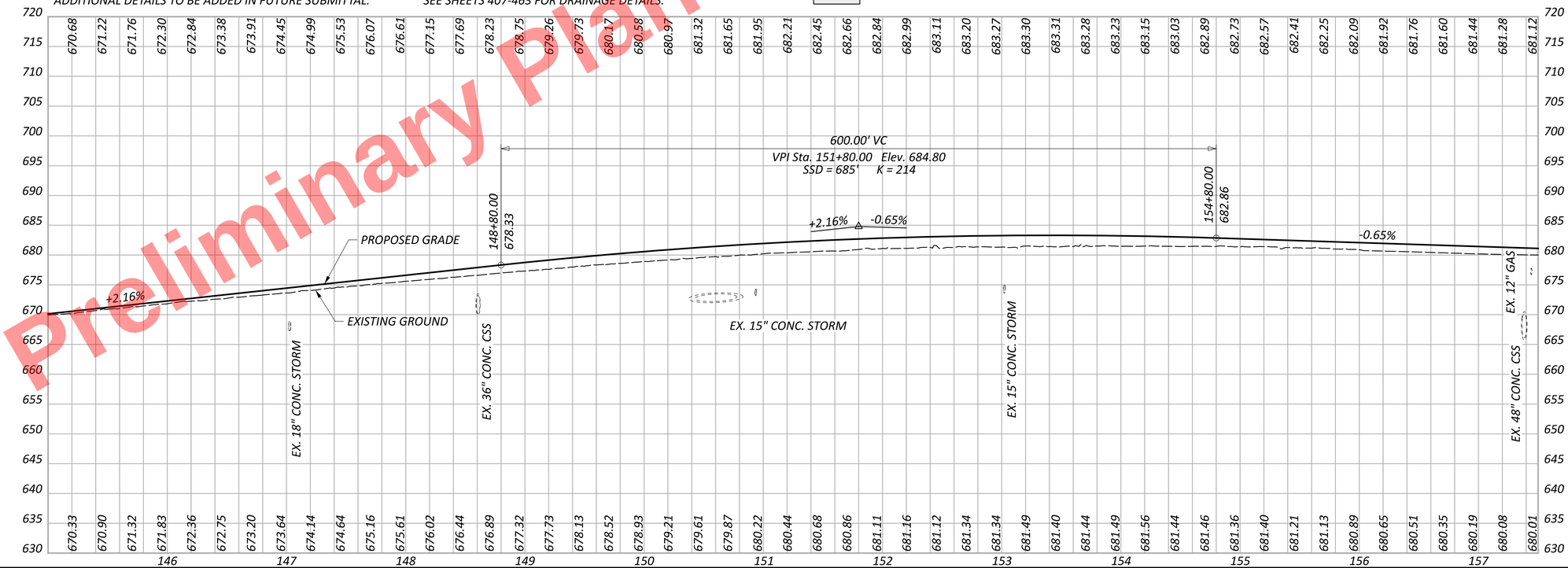
| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.267 |
| TOTAL | P.1135 |




NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

SEE SHEETS 49-74 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 75-87 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEET 406 FOR BRIDGE AND CURB RAMP REMOVAL DETAILS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.

MULTI-USE PATH




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

PLAN AND PROFILE - I.R. 77
STA. 145+00.00 TO STA. 157+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.268 TOTAL P.1135

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:32 PM USER: kperkins
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Preliminary Plans - For Reference Only

REMOVE EXISTING RETAINING WALL STA. 157+40.00 TO STA. 161+00.00

CONST. LIMITS

℄ CONST. MUP

WALL 6

EXISTING RETAINING WALL TO REMAIN WITH TOP REMOVED

BEGIN SHOULDER TAPER ℄ CONST. I.R. 77 STA. 165+60.07

WALL 5A

ONGOING COORDINATION FOR DRIVE RELOCATION. DETAILS TO BE PROVIDED IN A FUTURE SUBMITTAL.

GAS WELL DO NOT DISTURB

END SHOULDER TAPER ℄ CONST. I.R. 77 STA. 168+30.04

CURVE 77-4 DATA
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

HORIZONTAL SCALE IN FEET
0 25 50 100

MATCH LINE STA. 157+50.00

MATCH LINE STA. 170+00.00

℄ CONST. I.R. 77

I.R. 77 SB

I.R. 77 NB

77-4

N09°07'33"W

PT STA. 165+60.07

E. 49TH ST.

BEGIN SHOULDER TAPER STA. 160+68.10

END TAPER STA. 161+68.10

EXISTING RETAINING WALL DO NOT DISTURB MORGANA RUN CULVERT

℄ CONST. MUPE

SUNOCO PIPELINE

SEE SHEETS 49-74 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 75-87 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS.
SEE SHEET 465-481 FOR CULVERT DETAILS.

MULTI-USE PATH

PROPOSED GRADE

EXISTING GROUND

-0.65%

+0.70%

EX. 12" CONC. STORM

162+30.00 678.02

167+30.00 678.14

500.00' VC
VPI Sta. 164+80.00 Elev. 676.40
SSD = INF' K = 372

EX. 48" CONC. CSS

PLAN AND PROFILE - I.R. 77
STA. 157+50.00 TO STA. 170+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.269 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:35 PM USER: kperkins
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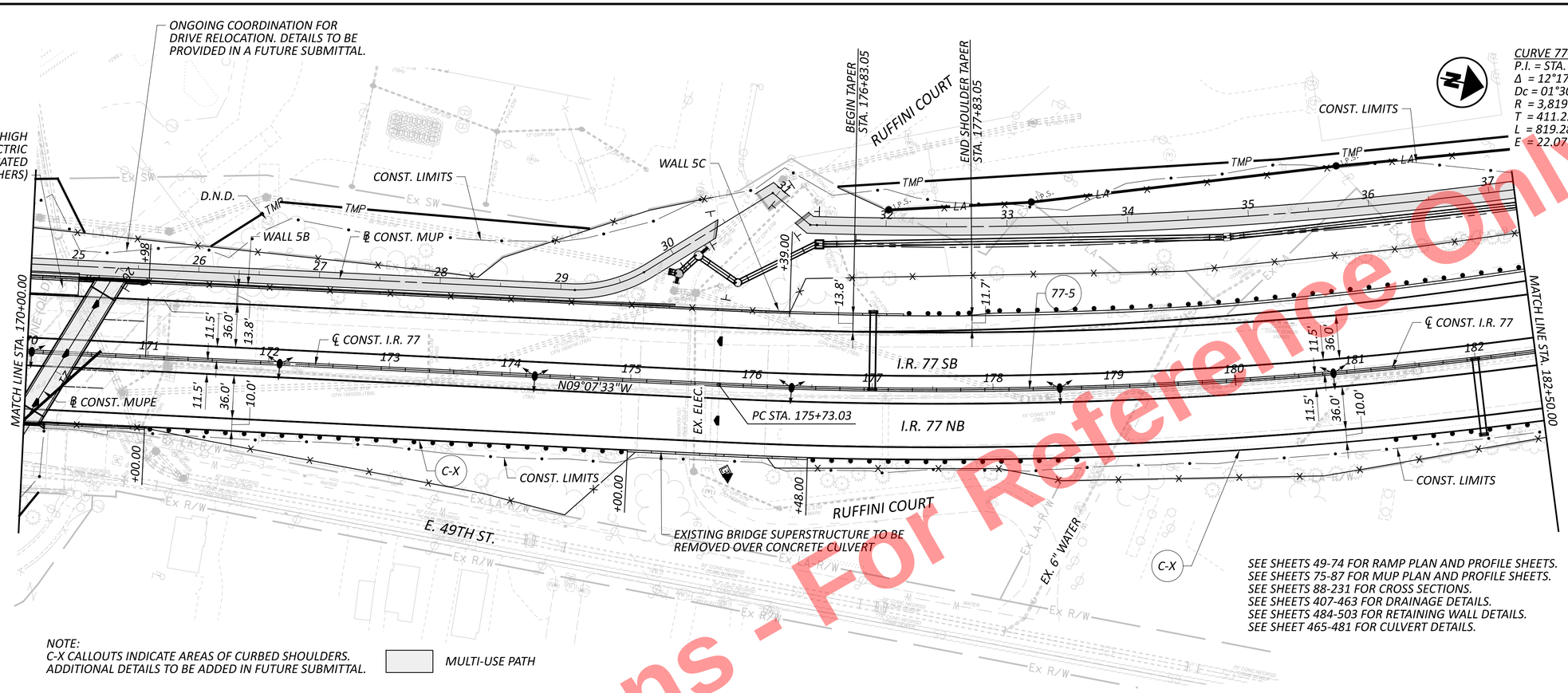
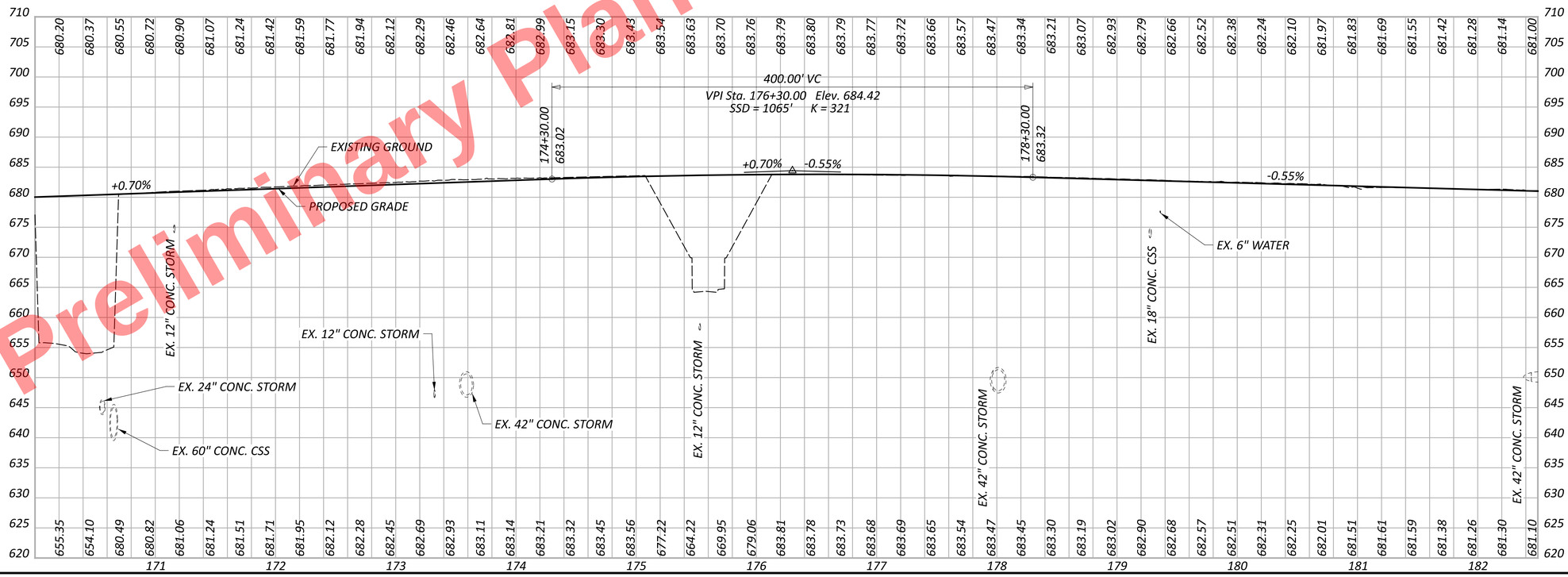
Preliminary Plans - For Reference Only




SEE SHEETS 49-74 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 75-87 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS 407-463 FOR DRAINAGE DETAILS.
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS.
SEE SHEET 465-481 FOR CULVERT DETAILS.

NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

MULTI-USE PATH




Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 170+00.00 TO STA. 182+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.270 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:37 PM USER: kperkins
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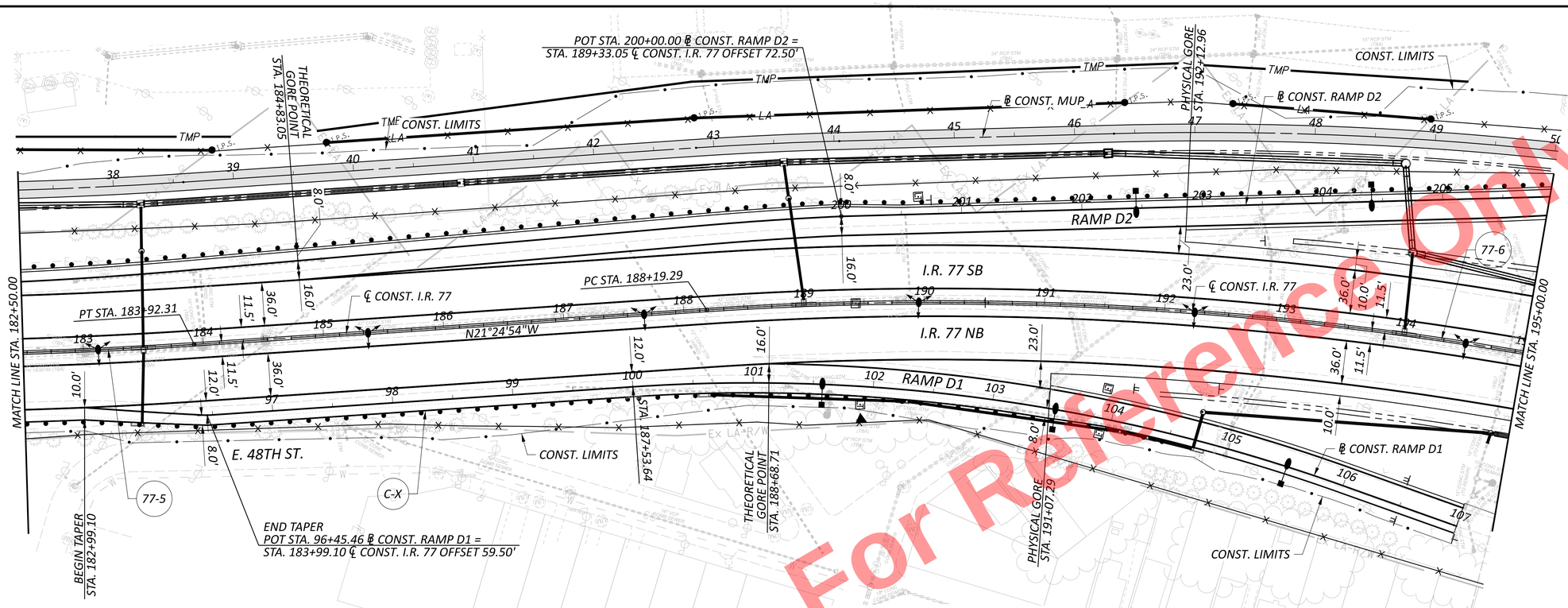
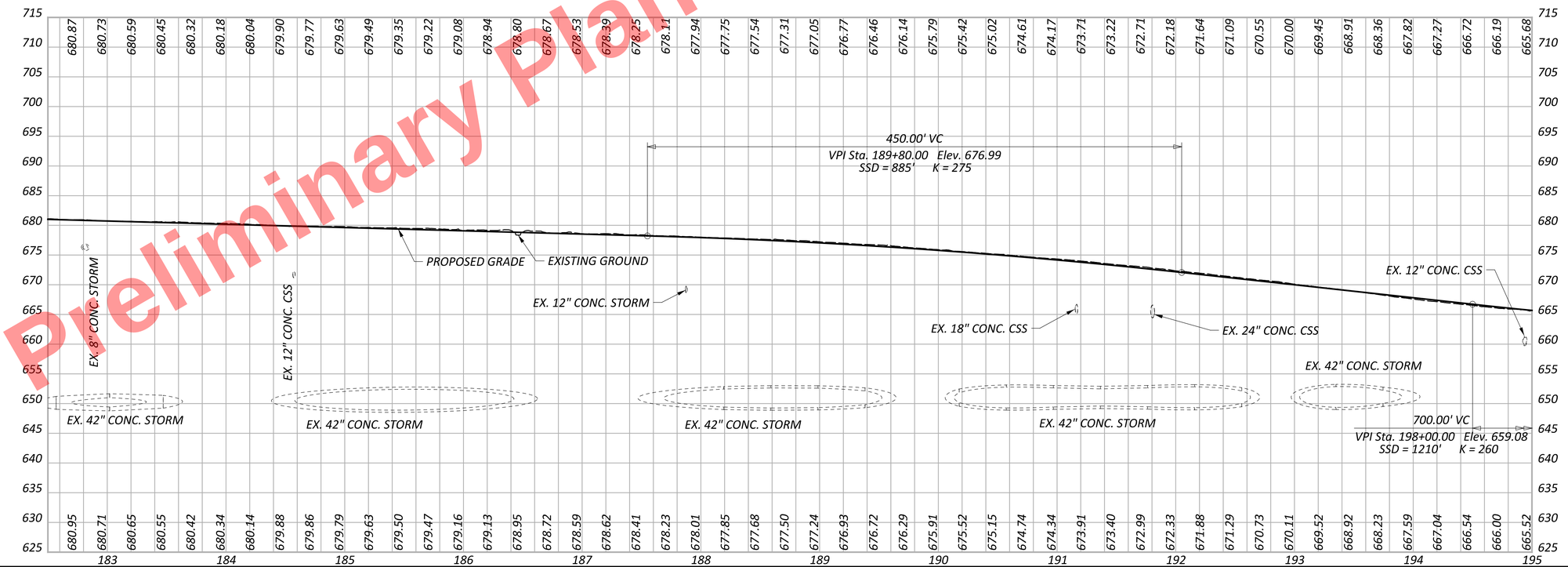



NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

MULTI-USE PATH

SEE SHEETS 49-76 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 77-87 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS 88-231 FOR CROSS SECTIONS.
SEE SHEETS P.421-482 FOR DRAINAGE DETAILS.




CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" RT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

HORIZONTAL SCALE IN FEET
0 25 50 100

# PLAN AND PROFILE - I.R. 77
# STA. 182+50.00 TO STA. 195+00.00

For Reference Only
Preliminary Plans

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.271 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:49 PM USER: kperkins
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MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:17:53 PM USER: kperkins
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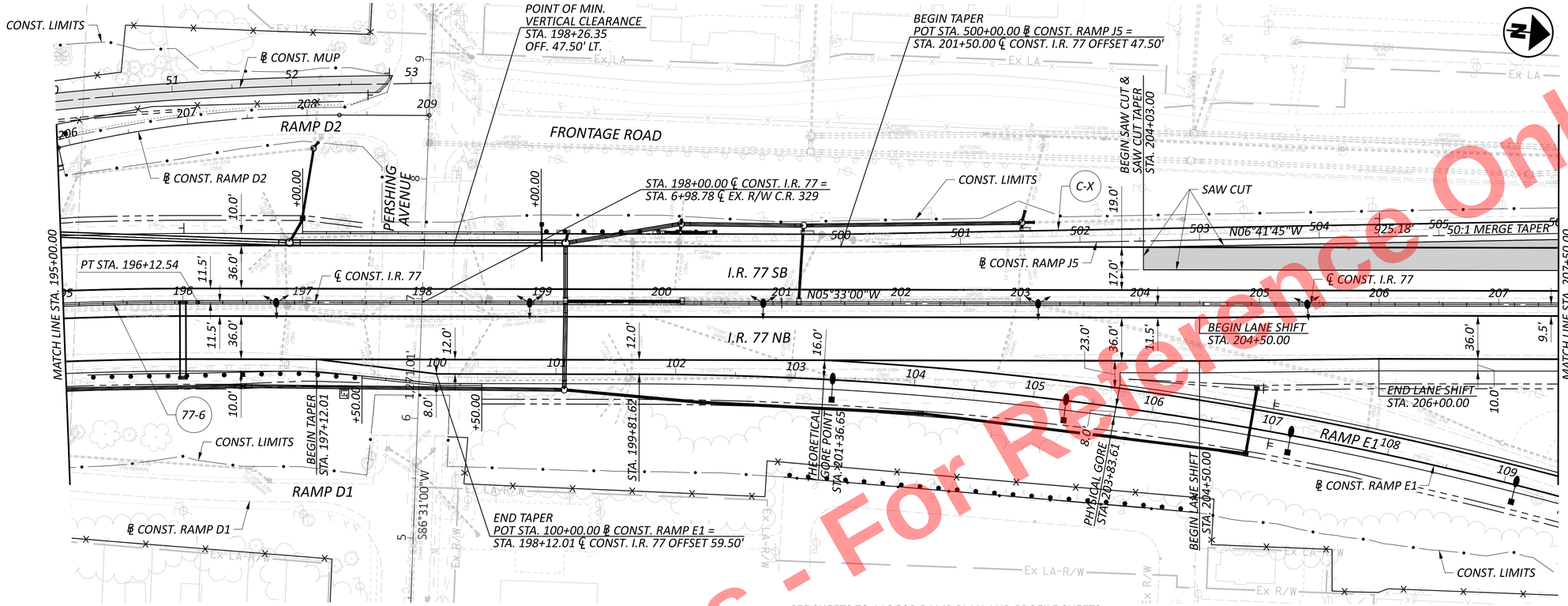
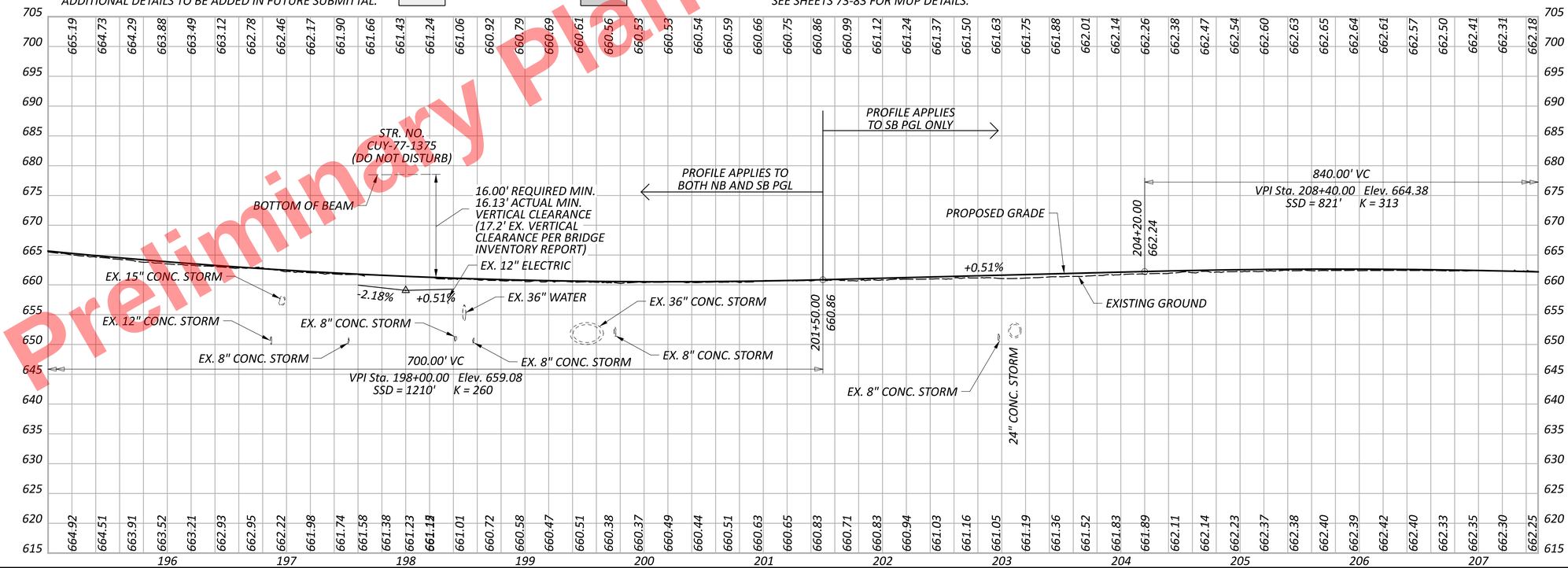



NOTE:
C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS.
ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.

MULTI-USE PATH

I.R. 77 RESURFACING

SEE SHEETS 78-116 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 117-260 FOR CROSS SECTIONS.
SEE SHEETS P.421-482 FOR DRAINAGE DETAILS.
SEE SHEETS 73-83 FOR MUP DETAILS.



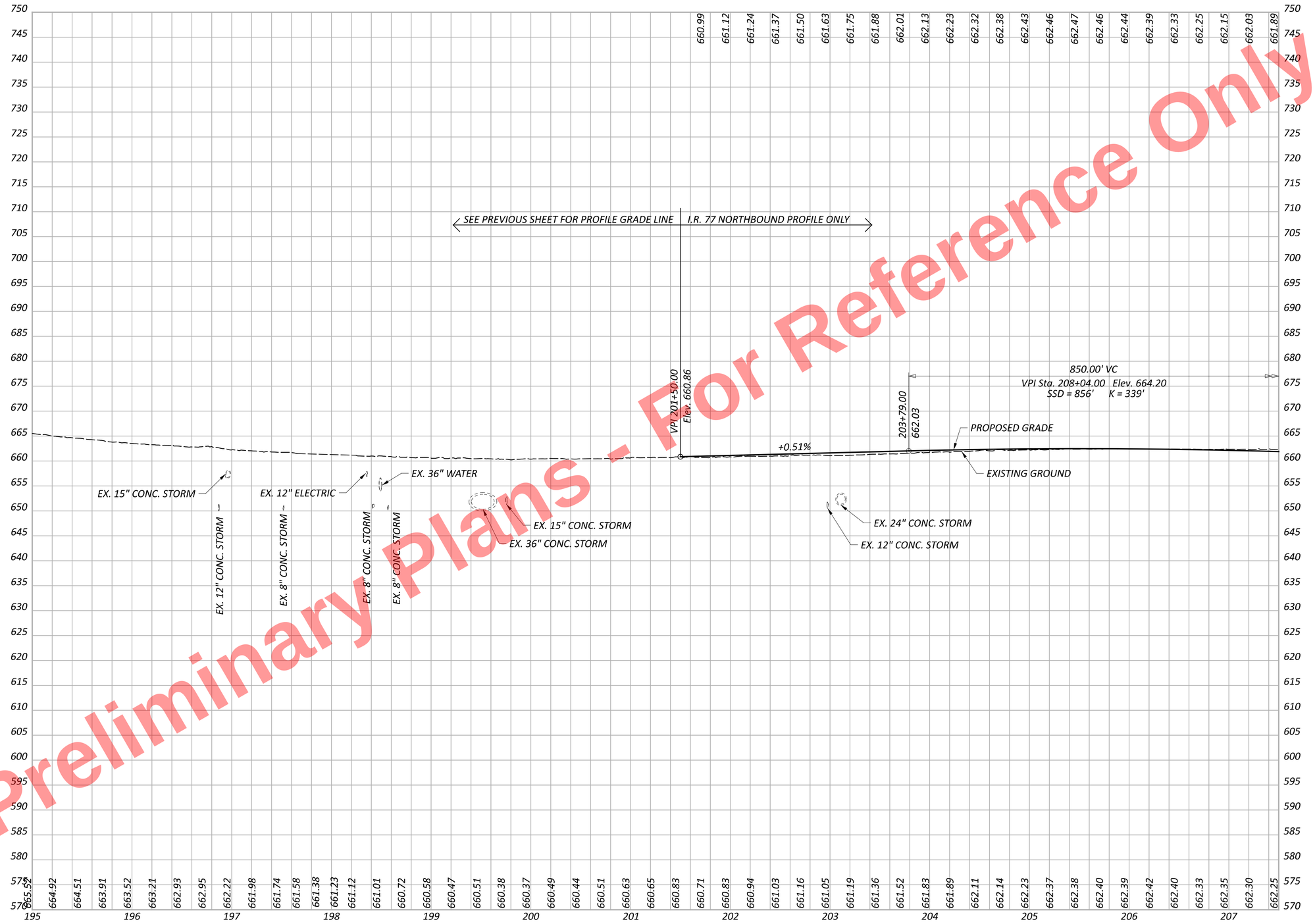

Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 195+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.272 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




PROFILE - I.R. 77 NB
STA. 195+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

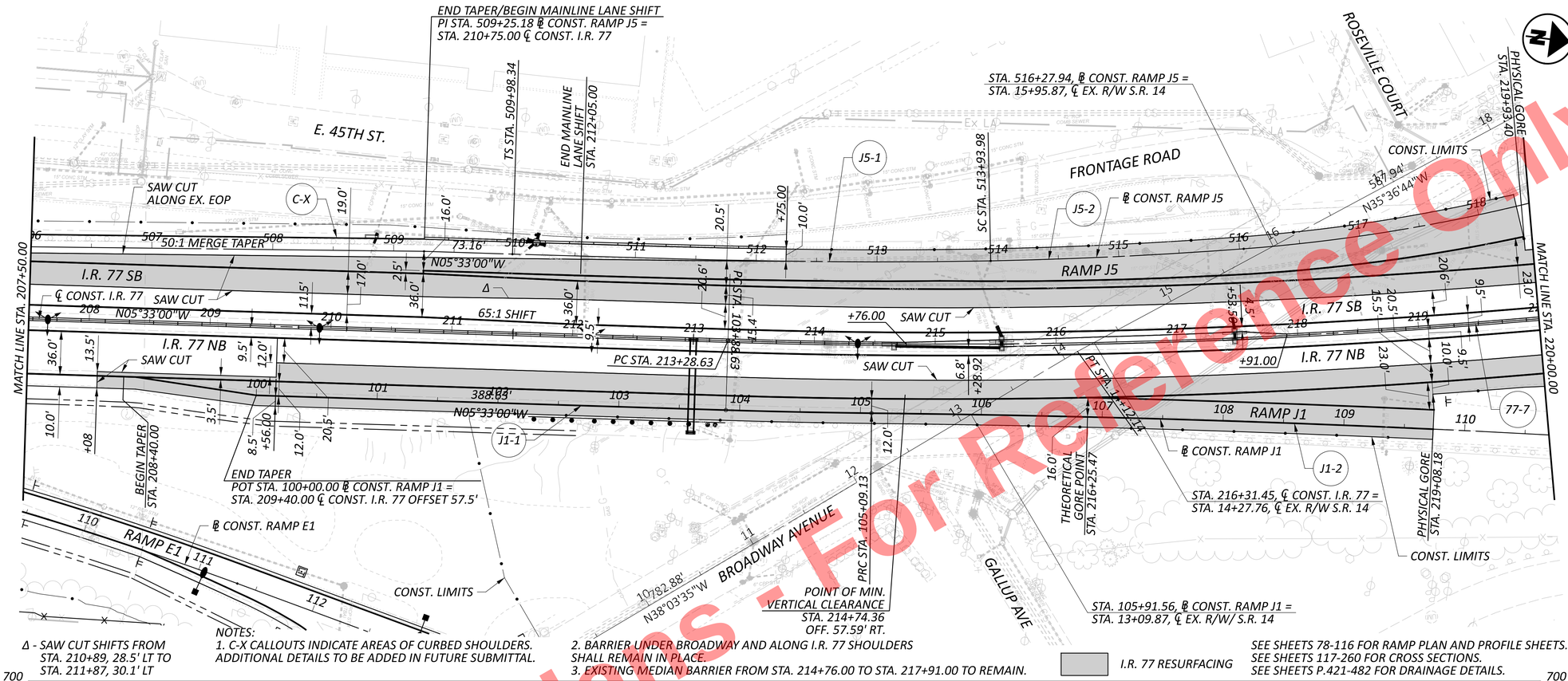
PROJECT ID
105743

SHEET P.273 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: PGL_CLP_I077NB - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:18:05 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GF101.dgn

Preliminary Plans - For Reference Only

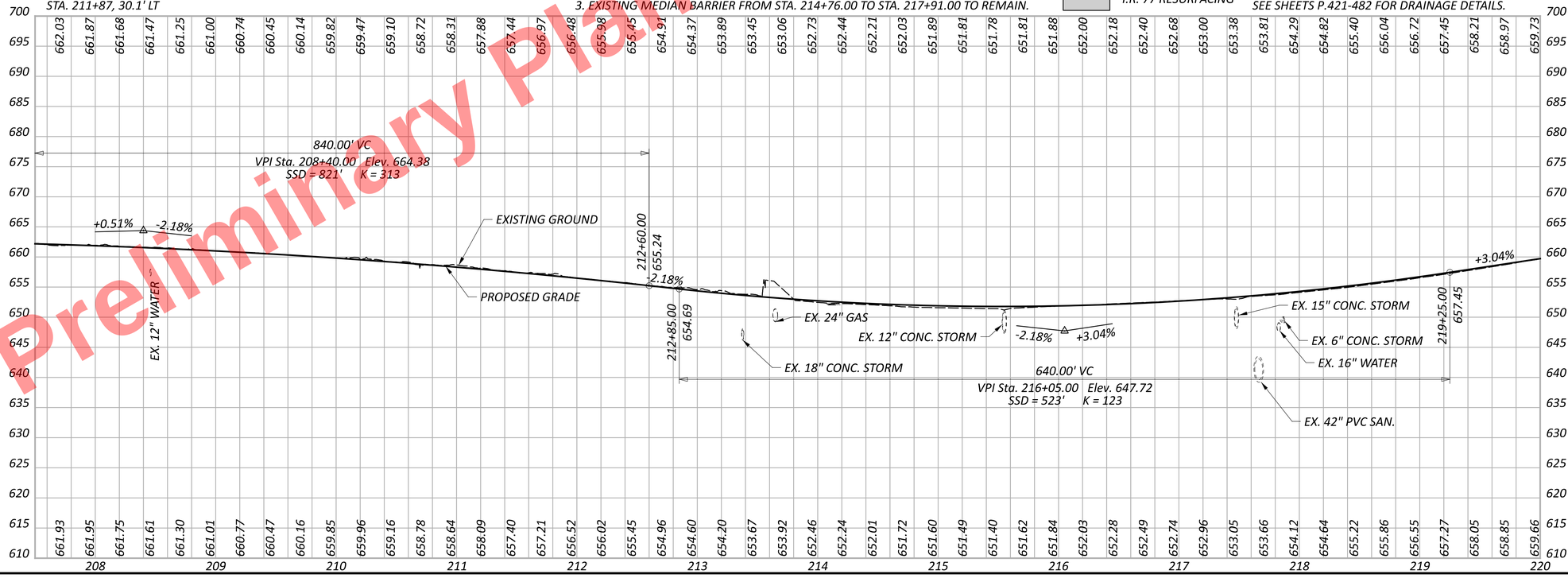



Δ - SAW CUT SHIFTS FROM STA. 210+89, 28.5' LT TO STA. 211+87, 30.1' LT

NOTES:
1. C-X CALLOUTS INDICATE AREAS OF CURBED SHOULDERS. ADDITIONAL DETAILS TO BE ADDED IN FUTURE SUBMITTAL.
2. BARRIER UNDER BROADWAY AND ALONG I.R. 77 SHOULDERS SHALL REMAIN IN PLACE.
3. EXISTING MEDIAN BARRIER FROM STA. 214+76.00 TO STA. 217+91.00 TO REMAIN.

I.R. 77 RESURFACING

SEE SHEETS 78-116 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS 117-260 FOR CROSS SECTIONS.
SEE SHEETS P.421-482 FOR DRAINAGE DETAILS.




SB PGL

## CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

## SPIRAL J5-1 DATA
P.I. = STA. 512+62.14
Ls = 395.63'
ϑs = 02°58'02"
LT = 263.79'
ST = 131.91'
x = 395.53'
y = 6.83'
k = 197.80'
p = 1.71'
C = 395.58'
Start = Sta. 509+98.34
End = Sta. 513+93.98
C.B. = N06°32'20"W

## CURVE J5-2 DATA
P.I. = STA. 514+98.77
Δ = 03°08'35" LT
Dc = 01°30'00"
R = 3,819.72'
T = 104.80'
L = 209.54'
E = 1.44'

## CURVE J1-1 DATA
P.I. = STA. 104+48.88
Δ = 01°11'35" LT
Dc = 00°59'24"
R = 5,787.08'
T = 60.25'
L = 120.50'
E = 0.31'

## CURVE J1-2 DATA
P.I. = STA. 108+56.26
Δ = 03°03'15" RT
Dc = 00°26'24"
R = 13,021.37'
T = 347.13'
L = 694.09'
E = 4.63'

HORIZONTAL SCALE IN FEET
0 25 50 100

# PLAN AND PROFILE - I.R. 77
# STA. 207+50.00 TO STA. 220+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.274 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:18:26 PM USER: kperkins
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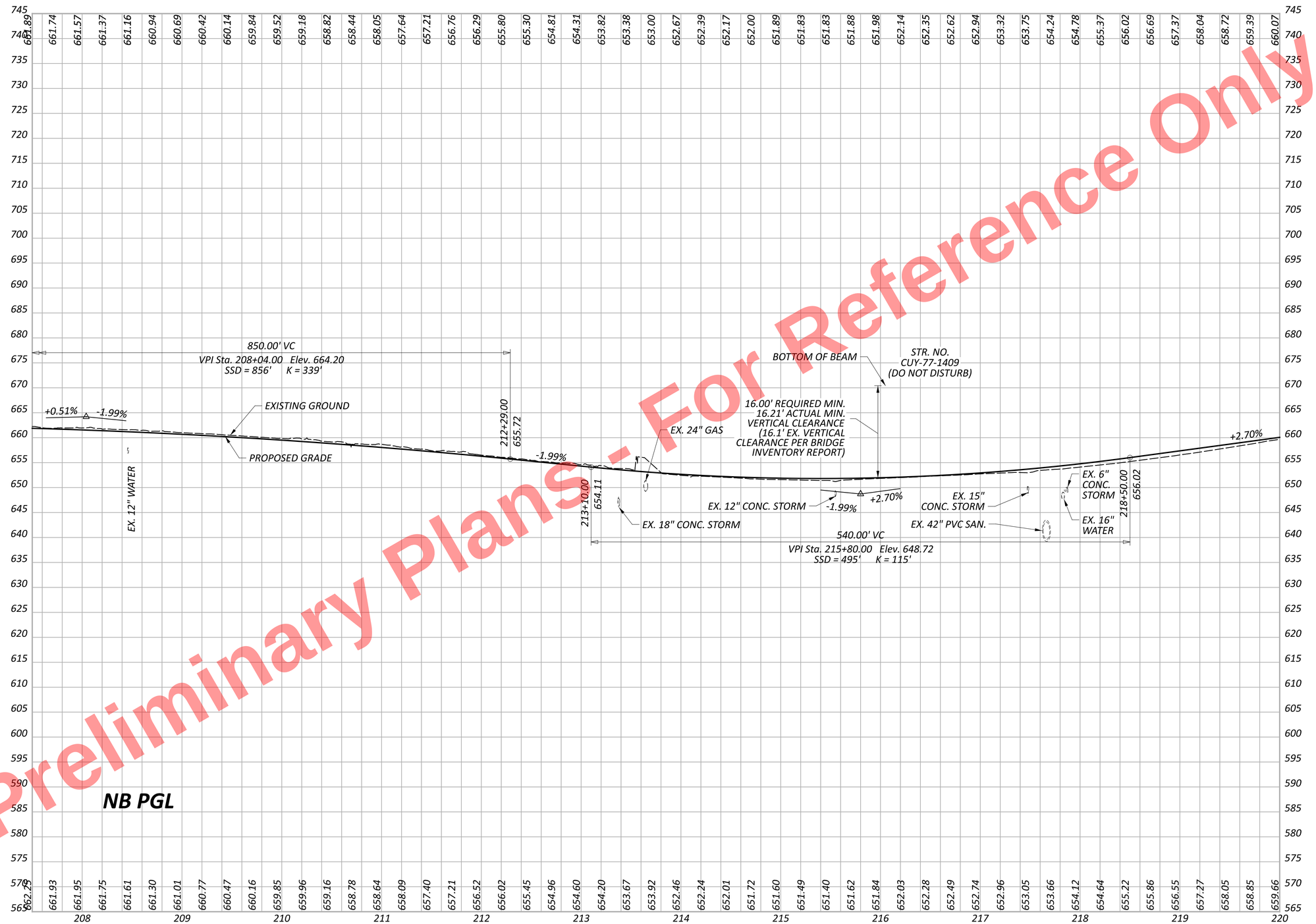



Preliminary Plans - For Reference Only

PROFILE - I.R. 77 NB
STA. 207+50.00 TO STA. 220+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

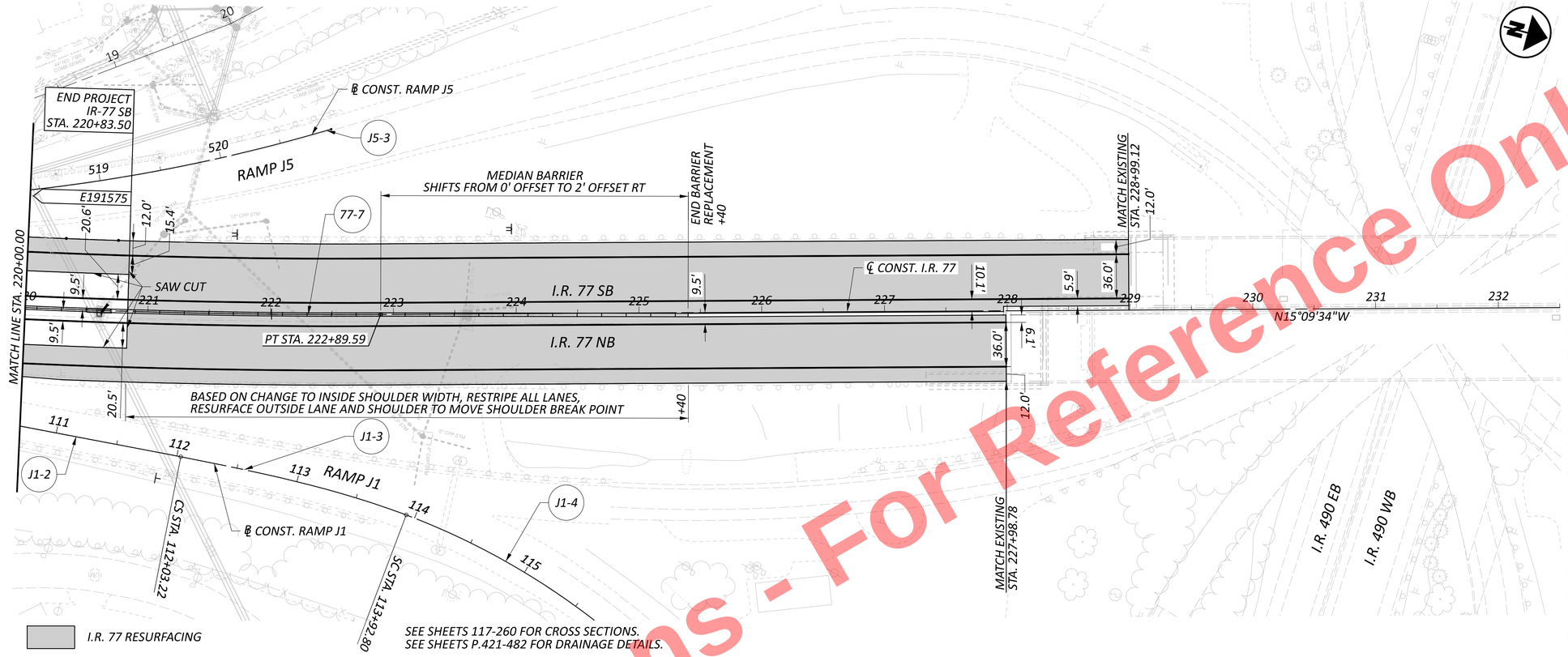
REVIEWER
KKP 04/01/22

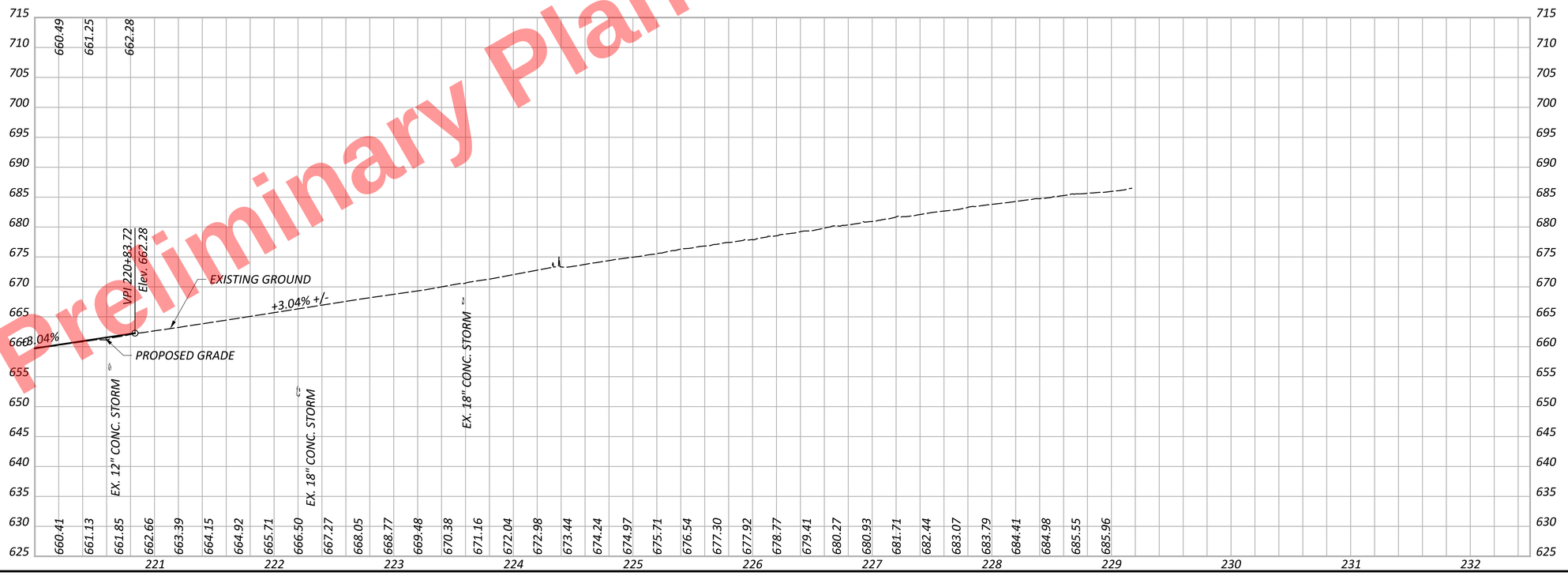
PROJECT ID
105743

SHEET P.275 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: PGL_CLP_I077NB - Profile 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:18:41 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GF101.dgn




SB PGL

## CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

## CURVE J5-3 DATA
P.I. = STA. 518+50.67
Δ = 19°34'48" LT
Dc = 04°00'00"
R = 1,432.39'
T = 247.16'
L = 489.50'
E = 21.17'

## CURVE J1-2 DATA
P.I. = STA. 108+56.26
Δ = 03°03'15" RT
Dc = 00°26'24"
R = 13,021.37'
T = 347.13'
L = 694.09'
E = 4.63'

## CURVE J1-3 DATA
P.I. = STA. 114+84.24
Δ = 17°33'51" RT
Dc = 09°40'46"
R = 591.94'
T = 91.45'
L = 181.46'
E = 7.02'

## SPIRAL J1-4 DATA
P.I. = STA. 113+67.28
Ls = 191.23'
ϑs = 09°36'01"
LT = 125.39'
ST = 66.21'
x = 190.68'
y = 11.04'
k = 91.96'
p = 2.48'
C = 191.00'
Start = Sta. 112+41.88
End = Sta. 114+33.12
C.B. = N00°22'49"W

HORIZONTAL
SCALE IN FEET
0 25 50 100

# PLAN AND PROFILE - I.R. 77
# STA. 220+00.00 TO END

Preliminary Plans - For Reference Only

DESIGN AGENCY
HNTB

DESIGNER
EAP

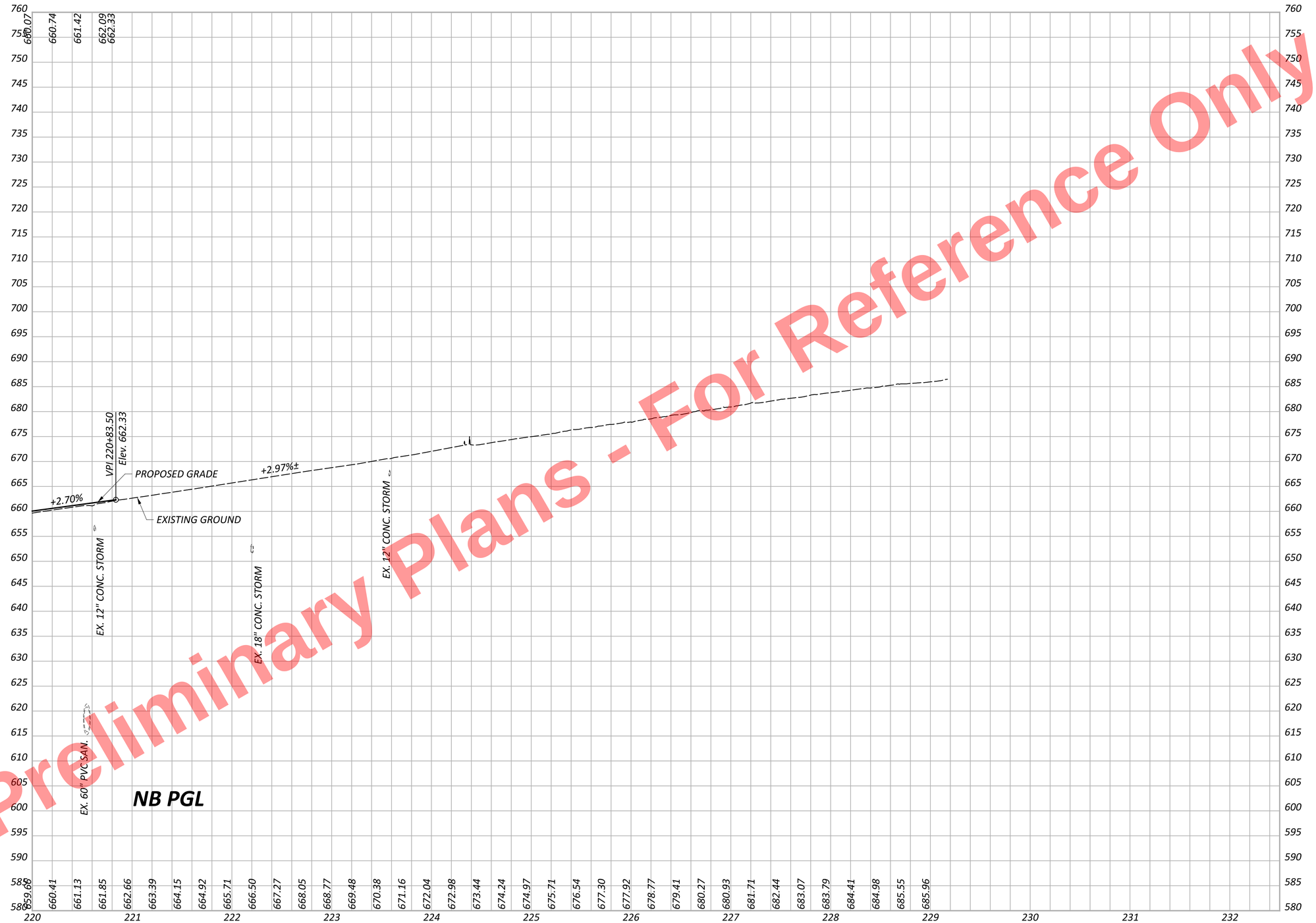
REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.276 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:19:04 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\V400-Engineering\Engineering\Roadway\Sheets\105743_GP104.dgn




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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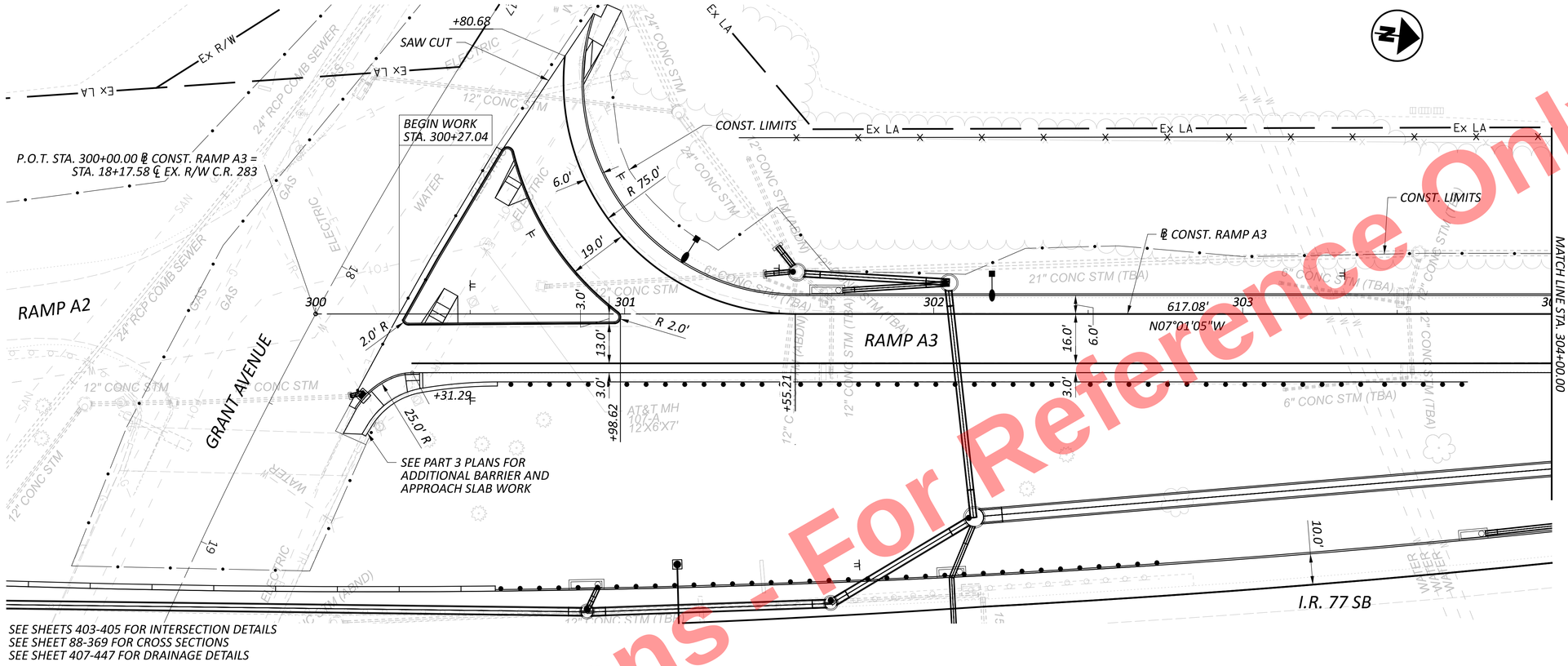
PROFILE - I.R. 77 NB
STA. 220+00.00 TO END

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.277 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP A3
## BEGIN TO STA. 304+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.278 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: BLP_R283A3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:19:41 PM USER: kperkins
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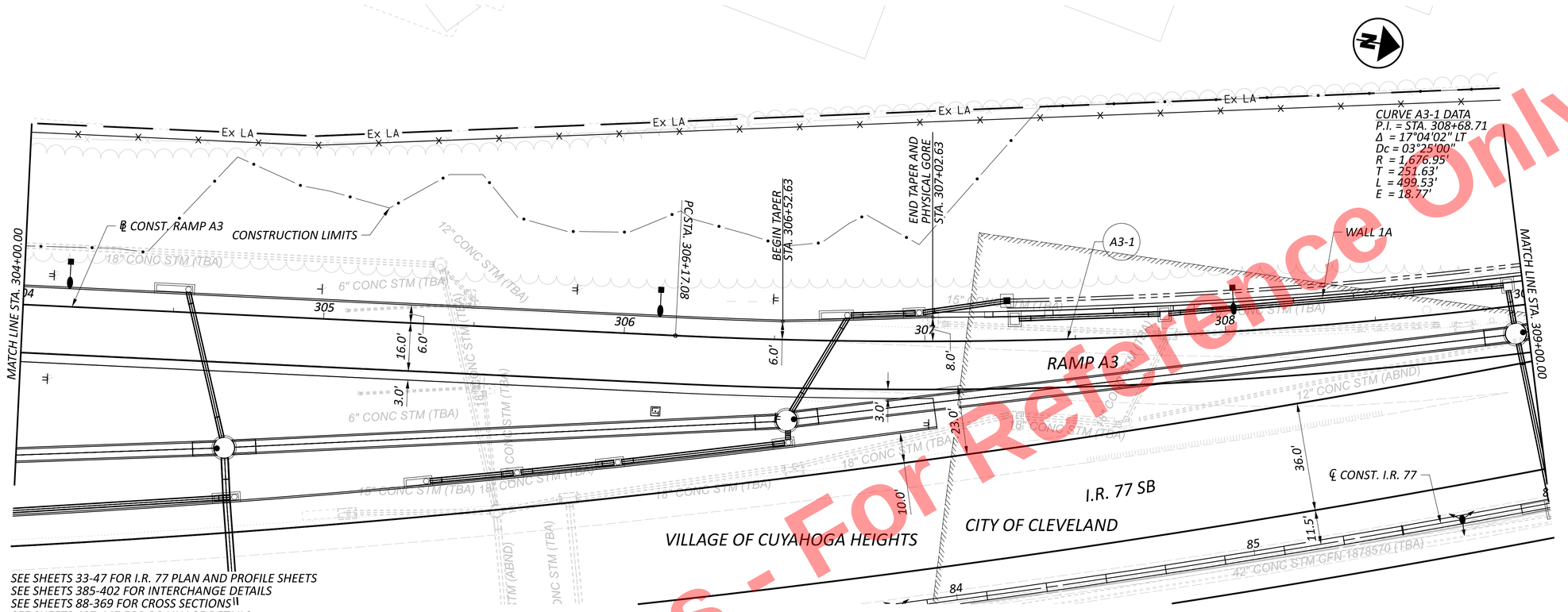


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP A3
## STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.279 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: BLP_R283A3 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:19:47 PM USER: kperkins
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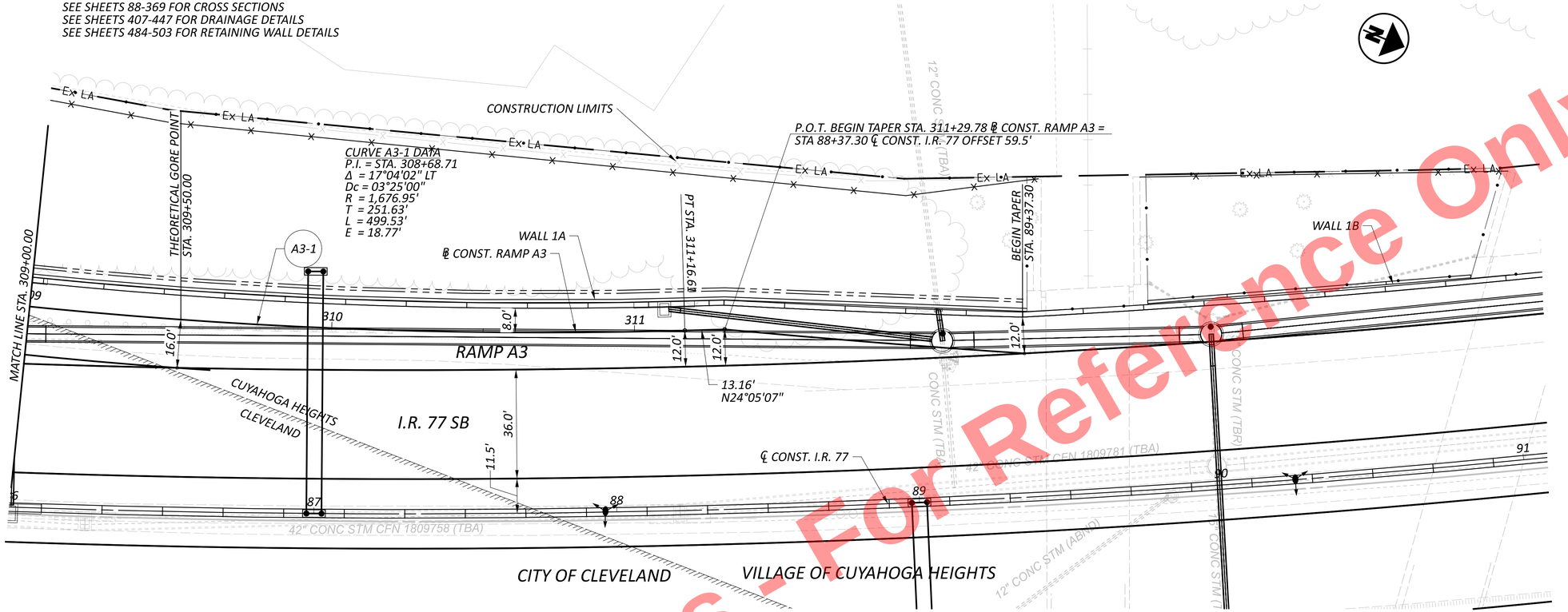
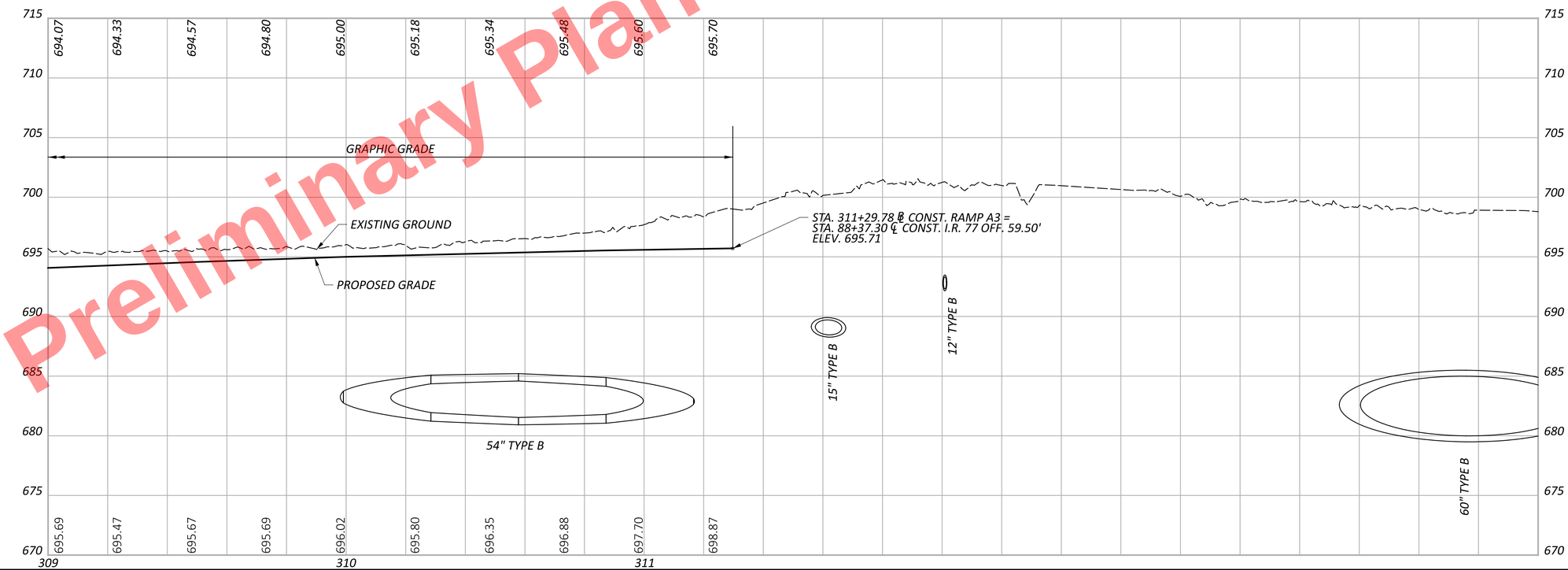
SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-402 FOR INTERCHANGE DETAILS
SEE SHEETS 88-369 FOR CROSS SECTIONS
SEE SHEETS 407-447 FOR DRAINAGE DETAILS
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

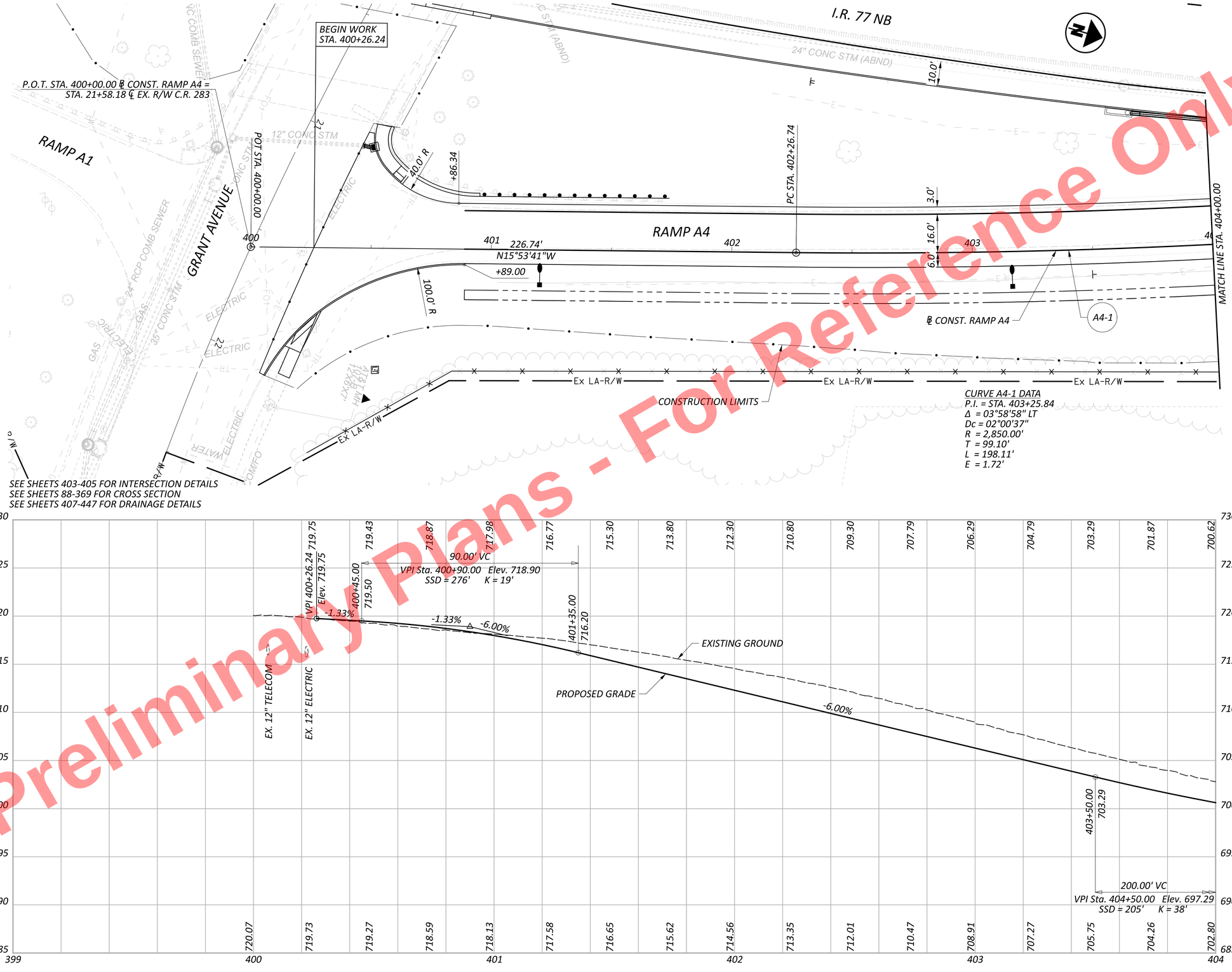
# PLAN AND PROFILE - RAMP A3
# STA. 309+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.280 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283A3 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:19:49 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\X00-Engineering\Roadway\Sheets\105743_GP203.dgn




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP A4
## BEGIN TO STA. 404+00.00

CUY-77-11.43 - PART 1

MODEL: BLP_R283A4 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:20:01 PM USER: kperkins
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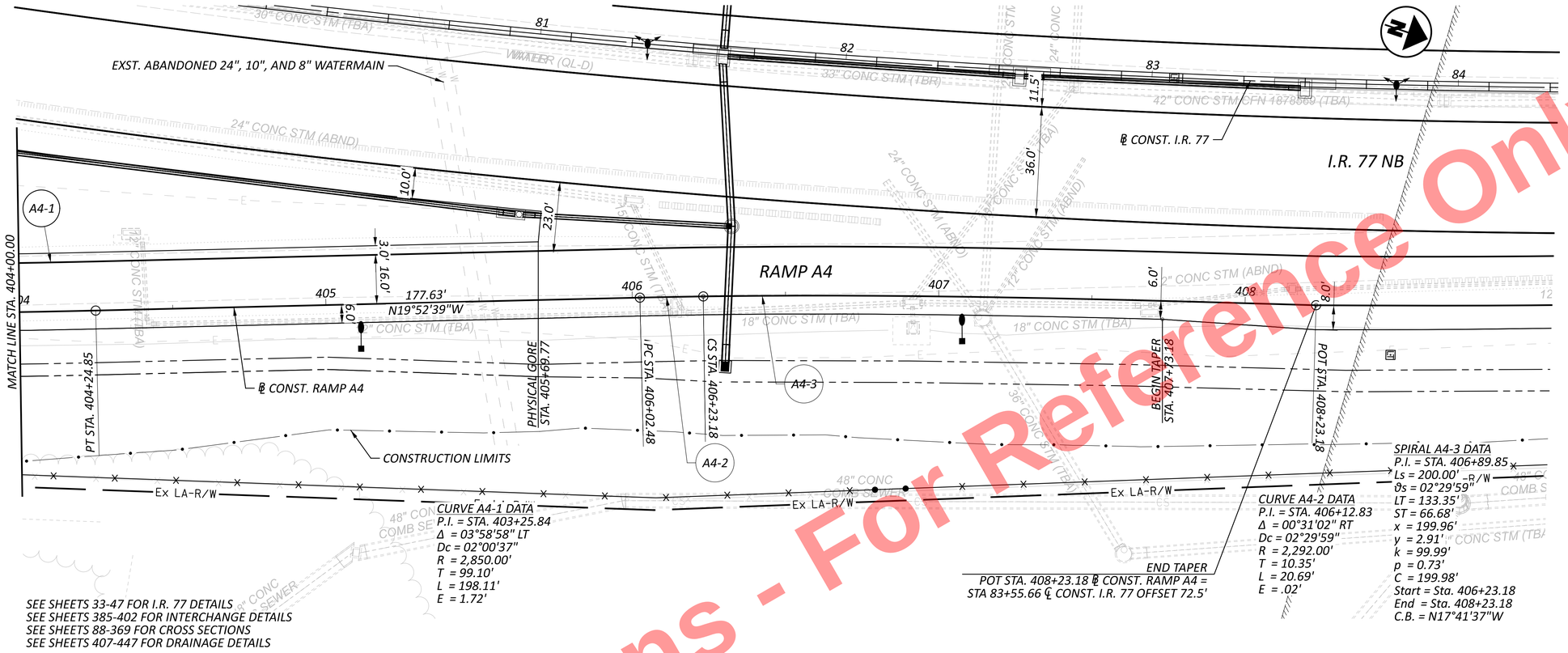
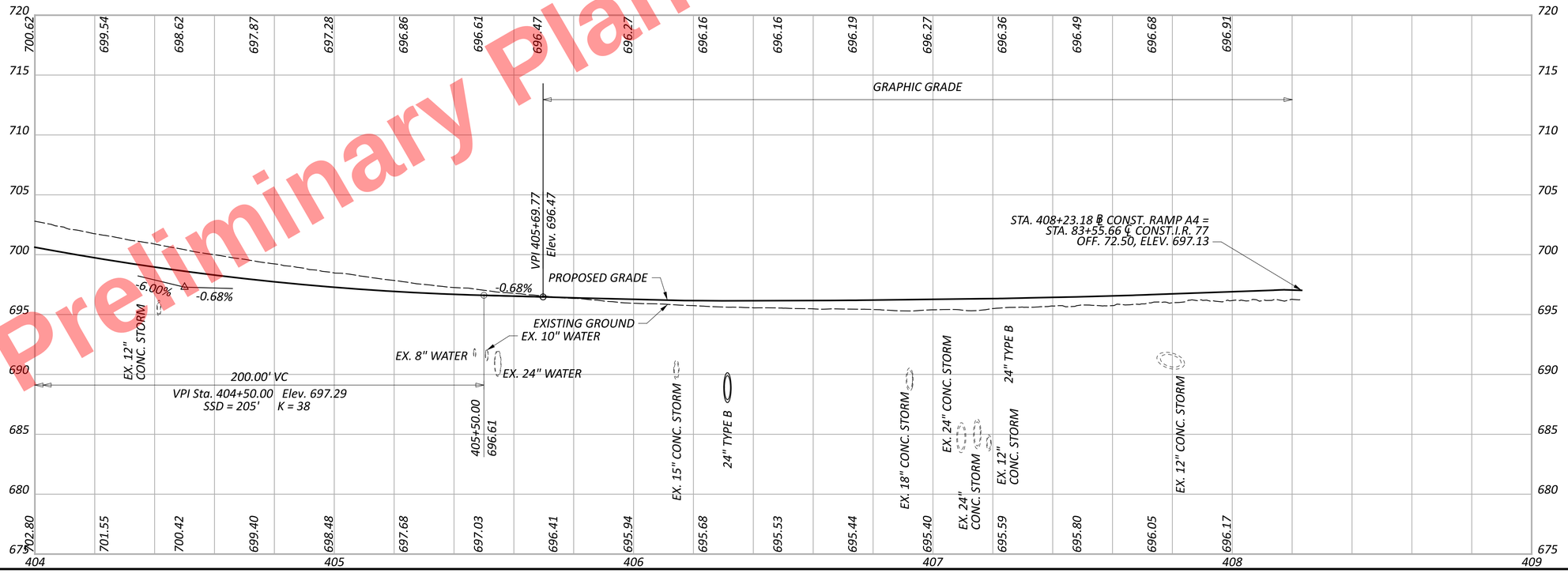
DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.281 TOTAL P.1135

Preliminary Plans - For Reference Only




SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-402 FOR INTERCHANGE DETAILS
SEE SHEETS 88-369 FOR CROSS SECTIONS
SEE SHEETS 407-447 FOR DRAINAGE DETAILS




HORIZONTAL SCALE IN FEET
0 10 20 40

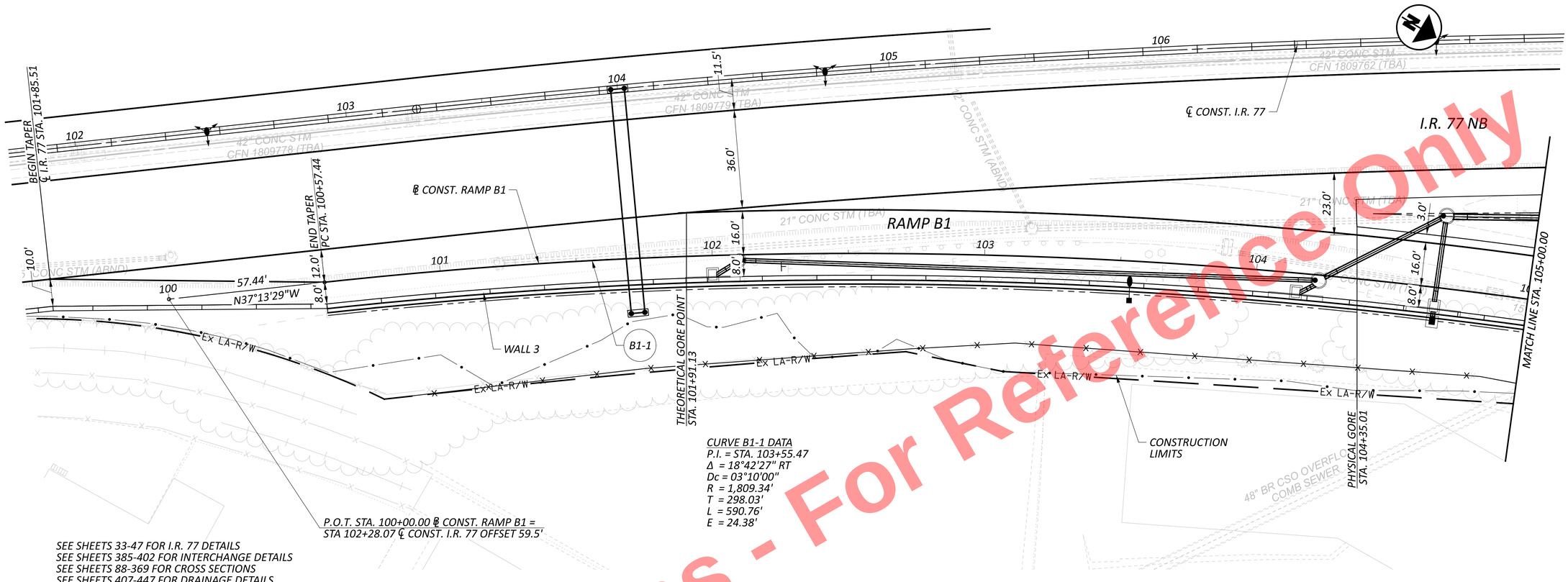
# PLAN AND PROFILE - RAMP A4
# STA. 404+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.282 TOTAL P.1135

CUY-77-11.43 - PART 1

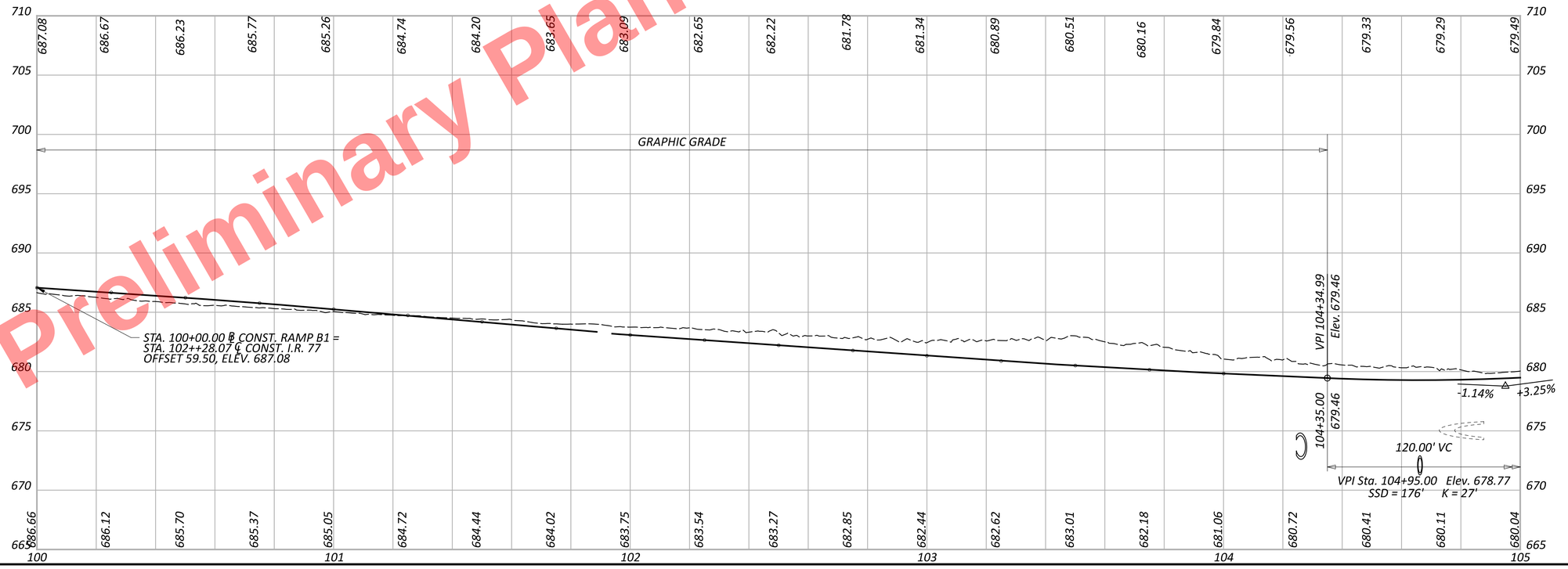
MODEL: BLP_R283A4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:20:03 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP204.dgn




P.O.T. STA. 100+00.00 ℄ CONST. RAMP B1 =
STA 102+28.07 ℄ CONST. I.R. 77 OFFSET 59.5'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-402 FOR INTERCHANGE DETAILS
SEE SHEETS 88-369 FOR CROSS SECTIONS
SEE SHEETS 407-447 FOR DRAINAGE DETAILS
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS




Preliminary Plans - For Reference Only

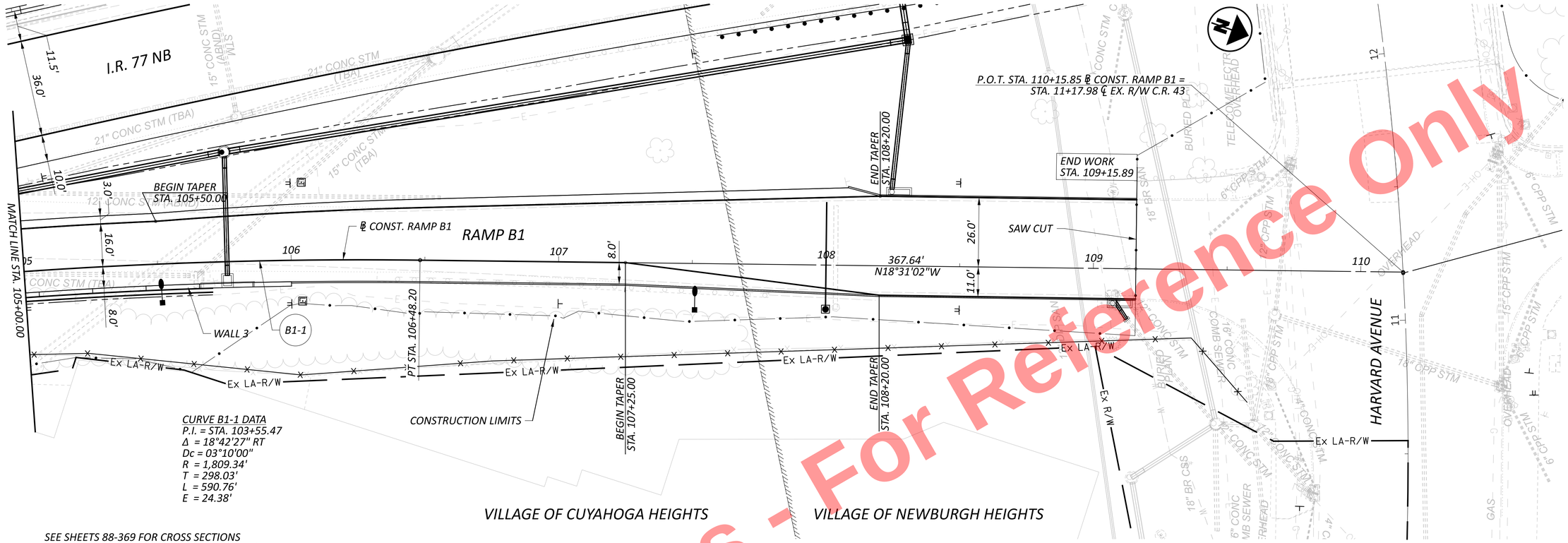
HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B1
## BEGIN TO STA. 105+00.00

DESIGN AGENCY
HNTB

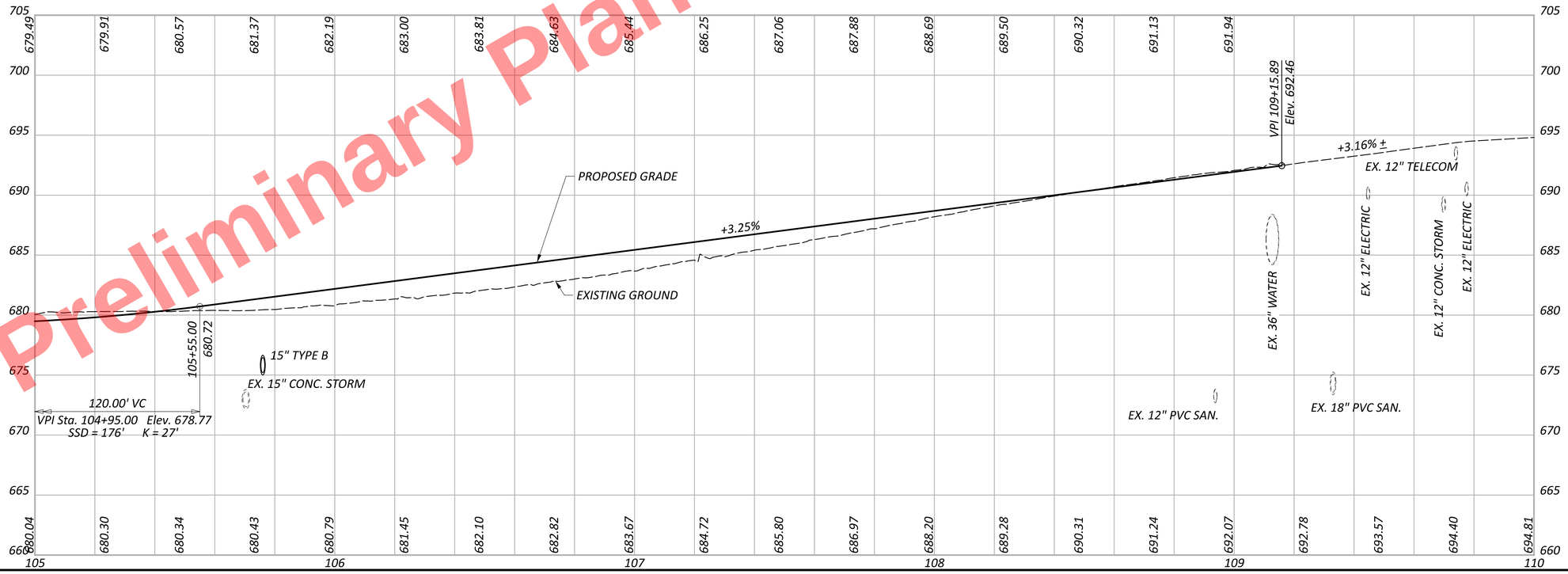
| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.283 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1
MODEL: BLP_R043B1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:20:21 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP301.dgn




CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

SEE SHEETS 88-369 FOR CROSS SECTIONS
SEE SHEETS 407-447 FOR DRAINAGE DETAILS
SEE SHEETS 484-503 FOR RETAINING WALL DETAILS




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B1
## STA. 105+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.284 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043B1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:20:33 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP301.dgn

VILLAGE OF CUYAHOGA HEIGHTS

VILLAGE OF NEWBURGH HEIGHTS

BEGIN TAPER
POT STA. 200+00.00, ℄ CONST. RAMP B2=
STA. 106+05.21, ℄ CONST. 77 OFFSET 72.5'

CONSTRUCTION LIMITS

SC STA. 202+00.00

BEGIN TAPER
PT STA. 204+03.67

END WORK
STA. 204+73.30

END TAPER
STA. 200+50.00

B2-1

B2-2

℄ CONST. RAMP B2

PHYSICAL GORE
STA. 202+62.20

END TAPER

MATCH LINE STA. 205+25.00

205 244.62'
N41°19'29"W

SAW CUT

RAMP B2

I.R. 77 SB

℄ CONST. I.R. 77

SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-402 FOR INTERCHANGE DETAILS
SEE SHEETS 88-369 FOR CROSS SECTIONS
SEE SHEETS 407-447 FOR DRAINAGE DETAILS

**SPIRAL B2-1 DATA**
P.I. = STA. 201+33.35
Ls = 200.00'
θs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 200+00.00
End = Sta. 202+00.00
C.B. = N34°34'01"W

**CURVE B2-2 DATA**
P.I. = STA. 203+01.90
Δ = 05°05'29" LT
Dc = 02°29'59"
R = 2,292.00'
T = 101.90'
L = 203.67'
E = 2.26'

GRAPHIC GRADE

EXISTING GROUND

PROPOSED GRADE

STA. 200+00.00 ℄ CONST. RAMP B1 =
STA. 106+05.21 ℄ CONST. I.R. 77
OFFSET 72.5', ELEV. 684.61

60" TYPE B

EX. 15" CONC. STORM

VPI 202+62.20
Elev. 679.95

202+65.00
679.92

203+85.00
682.54

120.00' VC
VPI Sta. 203+25.00 Elev. 679.19
SSD = 121' K = 18'

60" TYPE B

VPI 204+73.30
Elev. 687.46

-1.20%
+5.58%
-1.20%
+5.58%
+5.76% ±

EX. 12" DUCTILE IRON SAN.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B2
BEGIN TO END

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.285 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043B2 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:20:43 PM USER: kperkins
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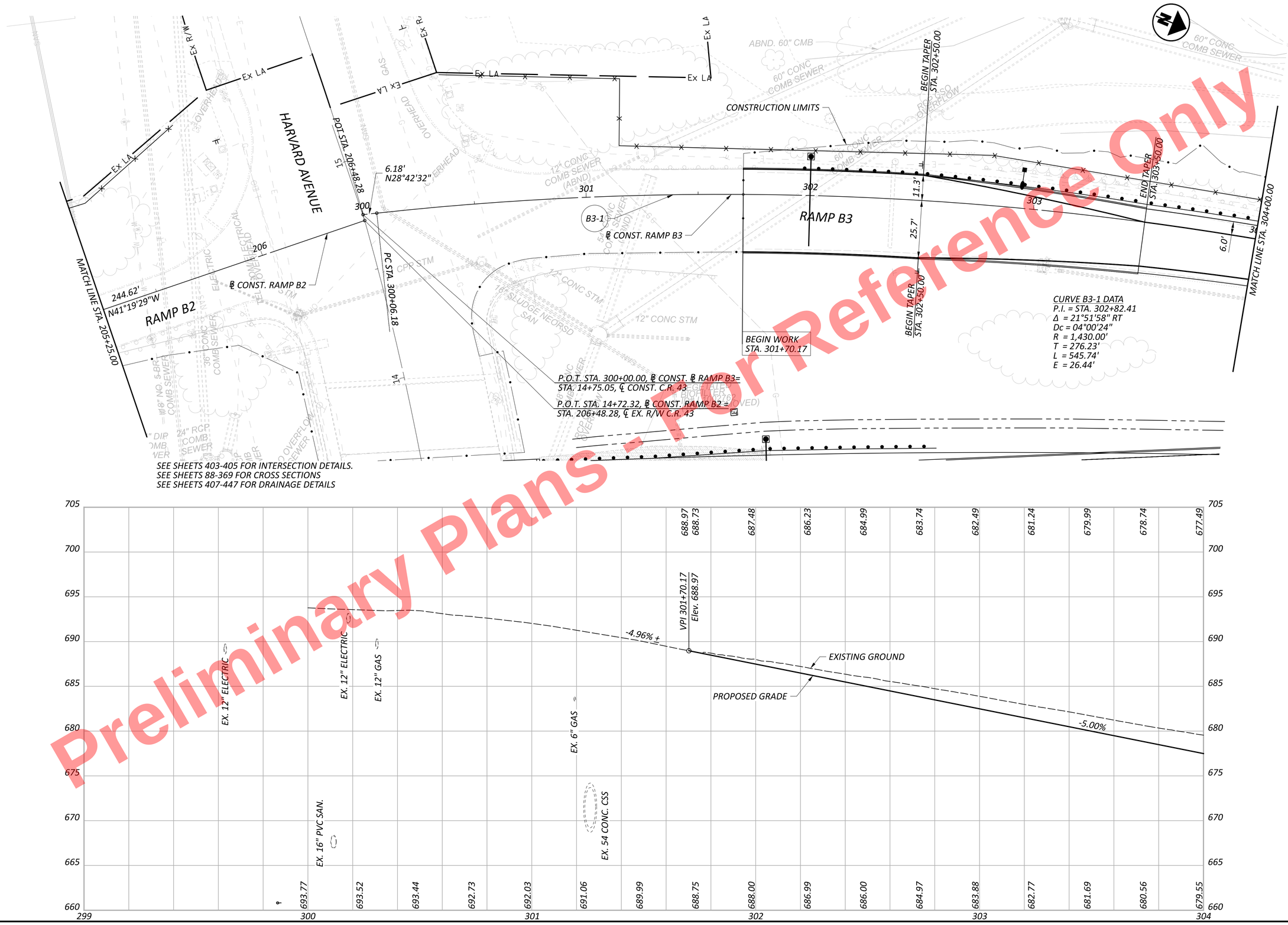


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B3
## BEGIN TO STA. 304+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.286 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: BLP_R043B3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:21:03 PM USER: kperkins
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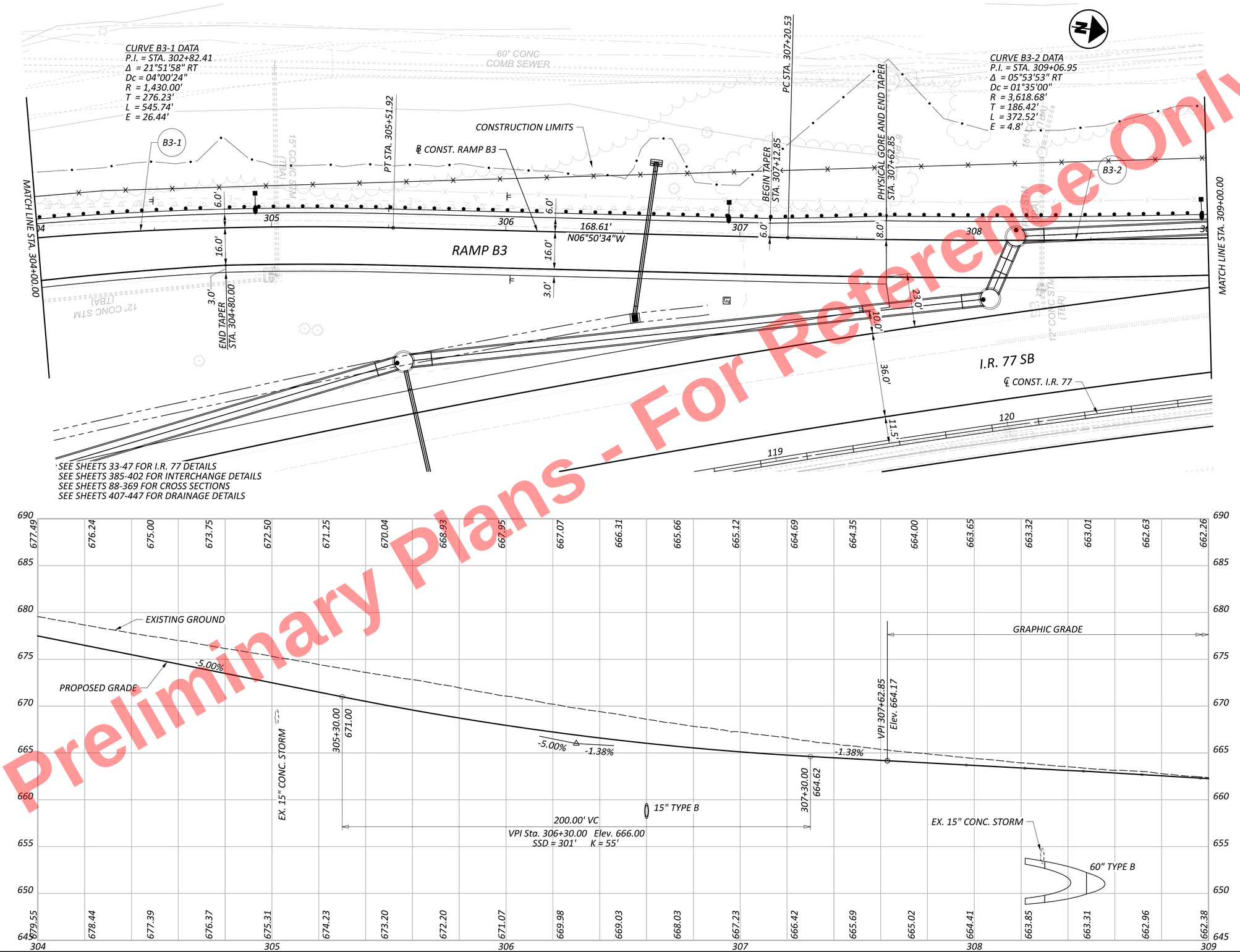
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B3
## STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.287 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: BLP_R04383 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:21:15 PM USER: kperkins
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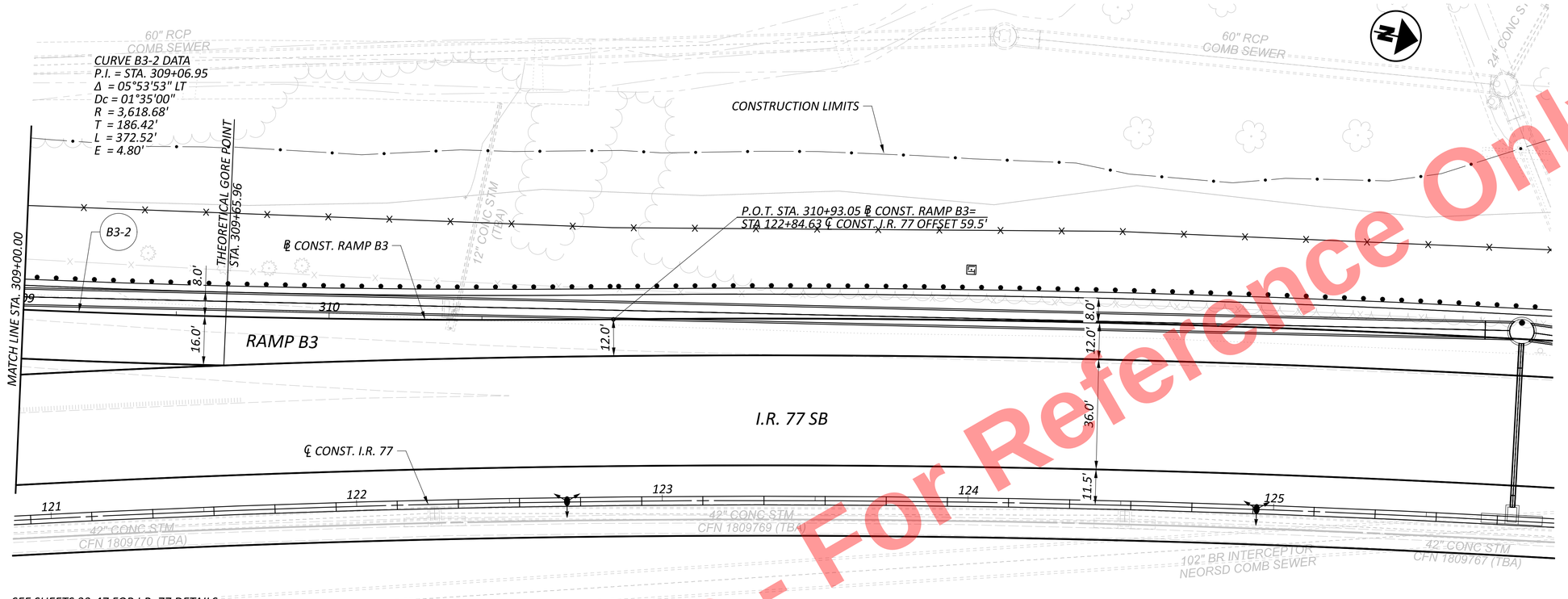


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B3
## STA. 309+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.288 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043B3 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:21:16 PM USER: kperkins
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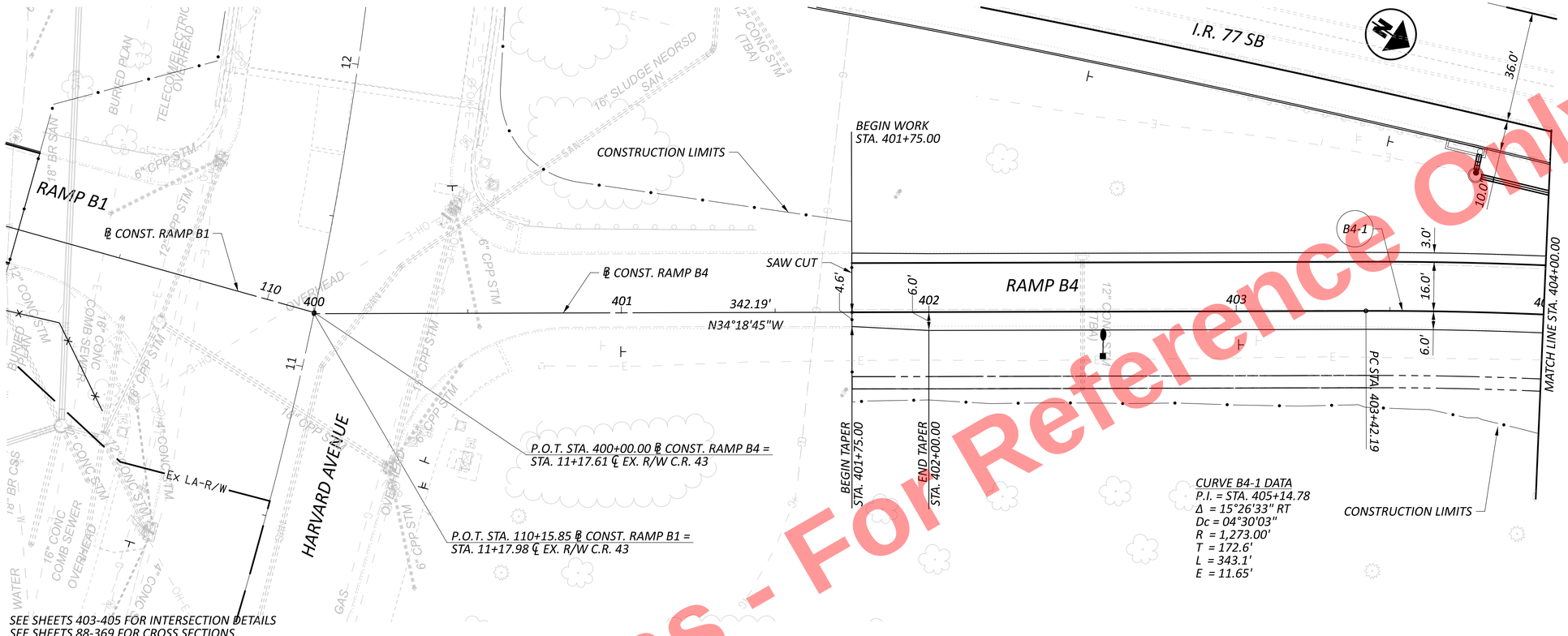
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B4
## BEGIN TO STA. 404+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.289 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043B4 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:21:34 PM USER: kperkins
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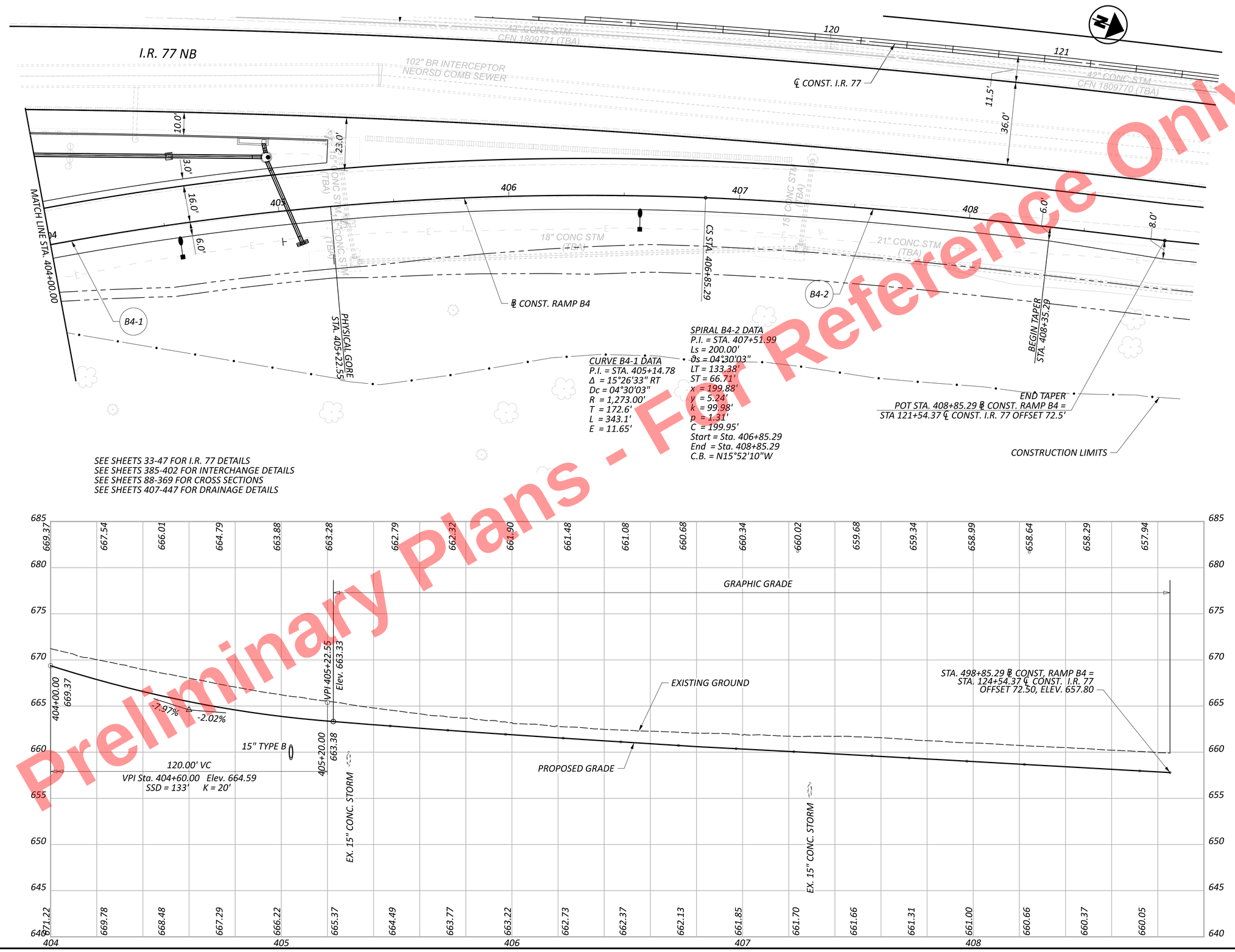


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP B4
## STA. 404+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.290 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043B4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:21:45 PM USER: kperkins
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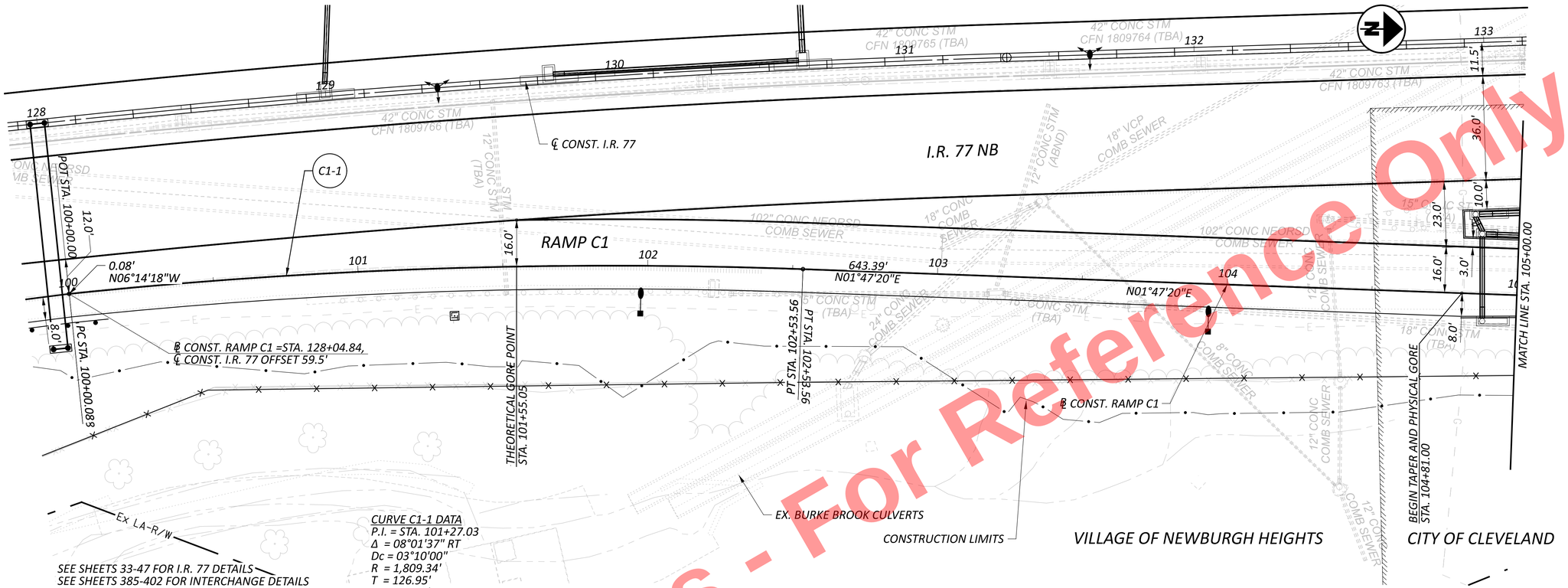


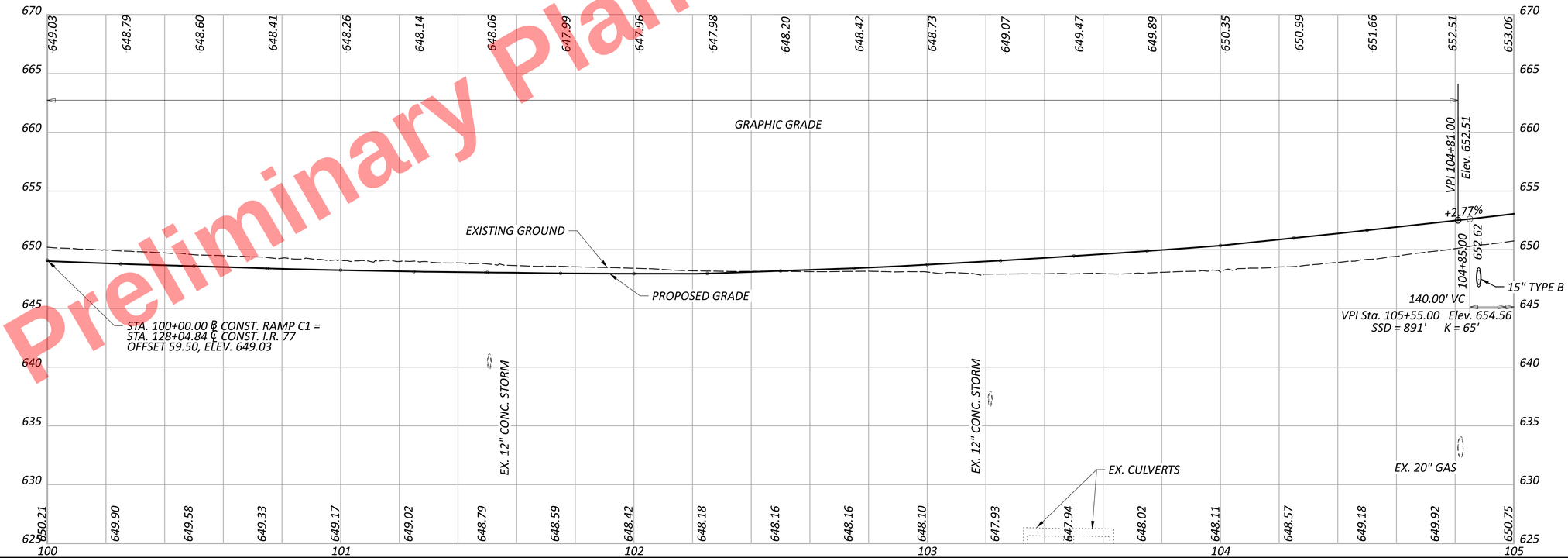


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C1
## BEGIN TO STA. 105+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.291 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1
MODEL: BLP_R743C1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:22:02 PM USER: kperkins
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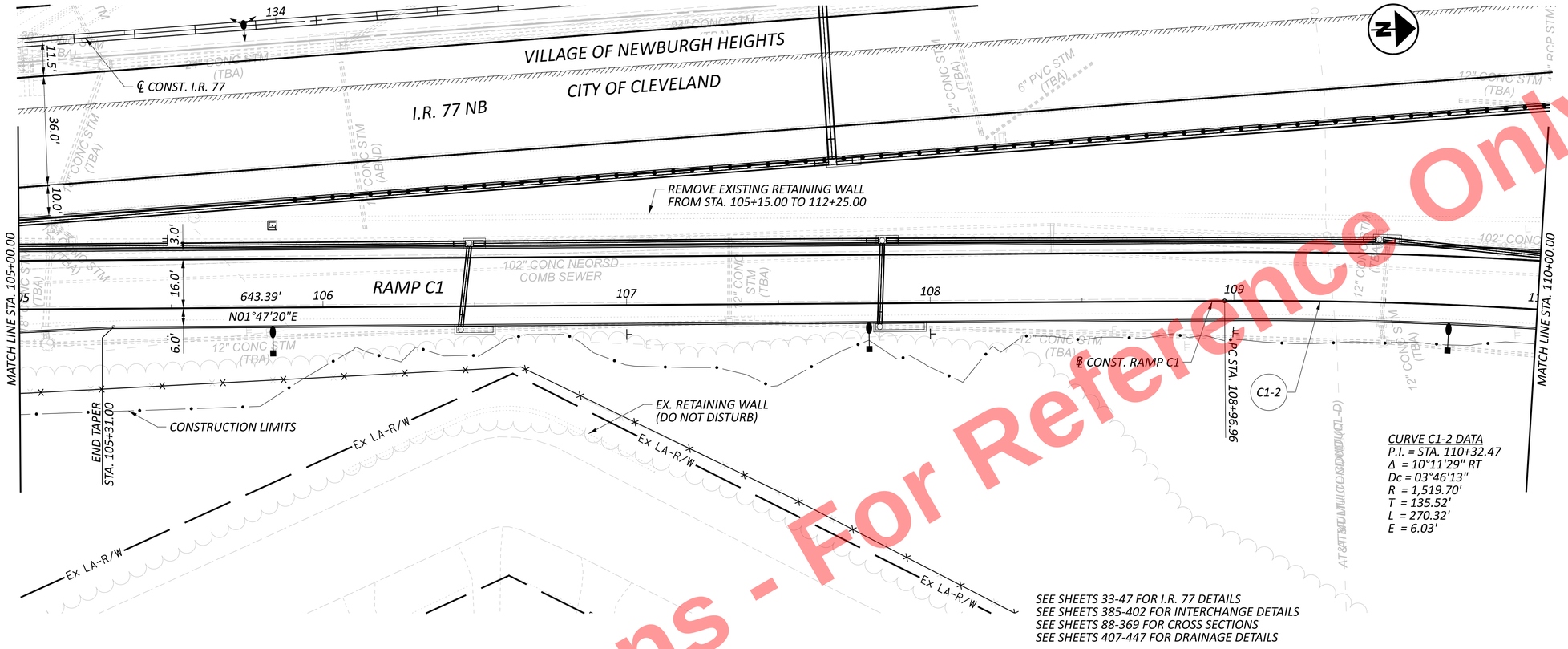


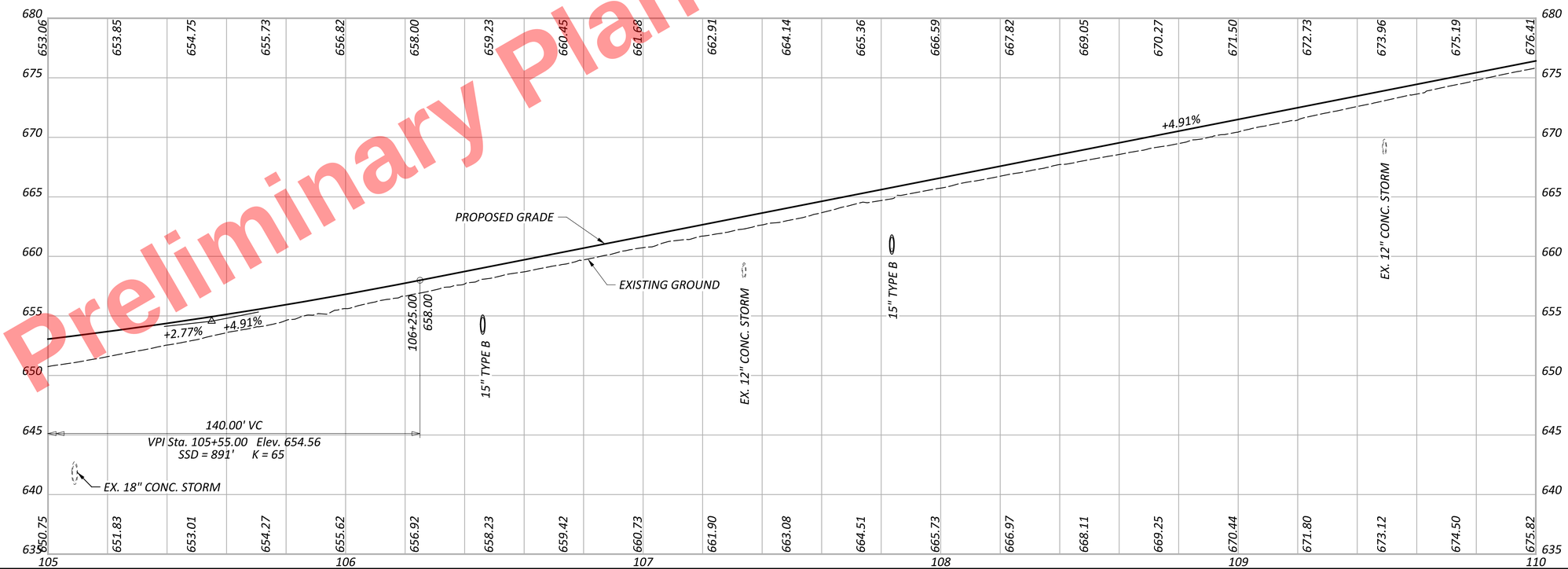


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C1
# STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.292 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:22:15 PM USER: kperkins
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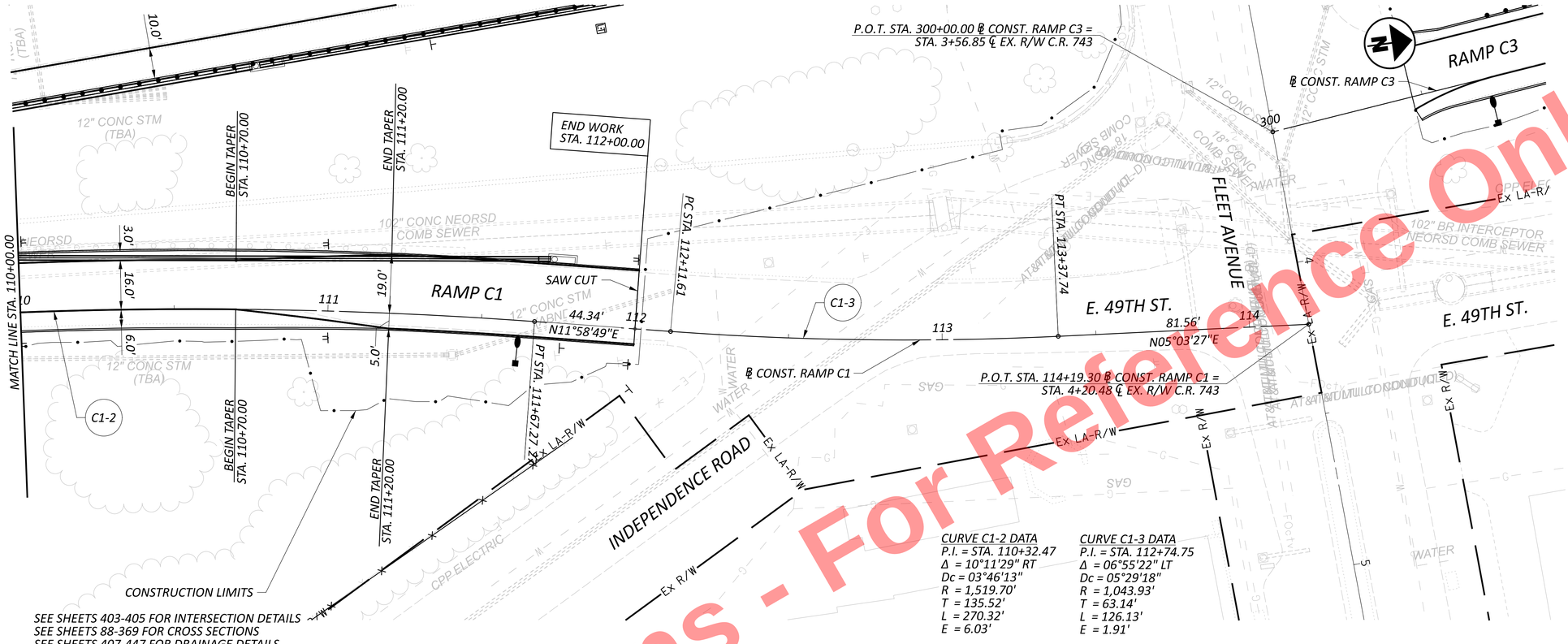


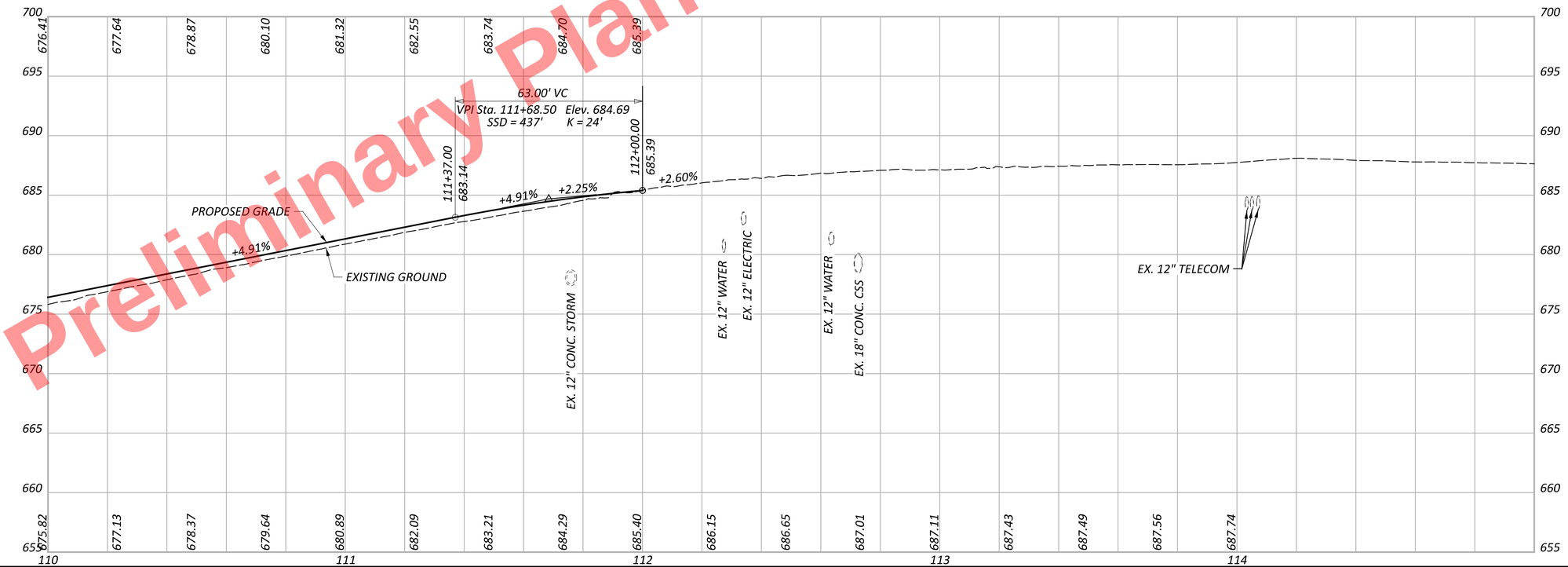


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C1
## STA. 110+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.293 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C1 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:22:17 PM USER: kperkins
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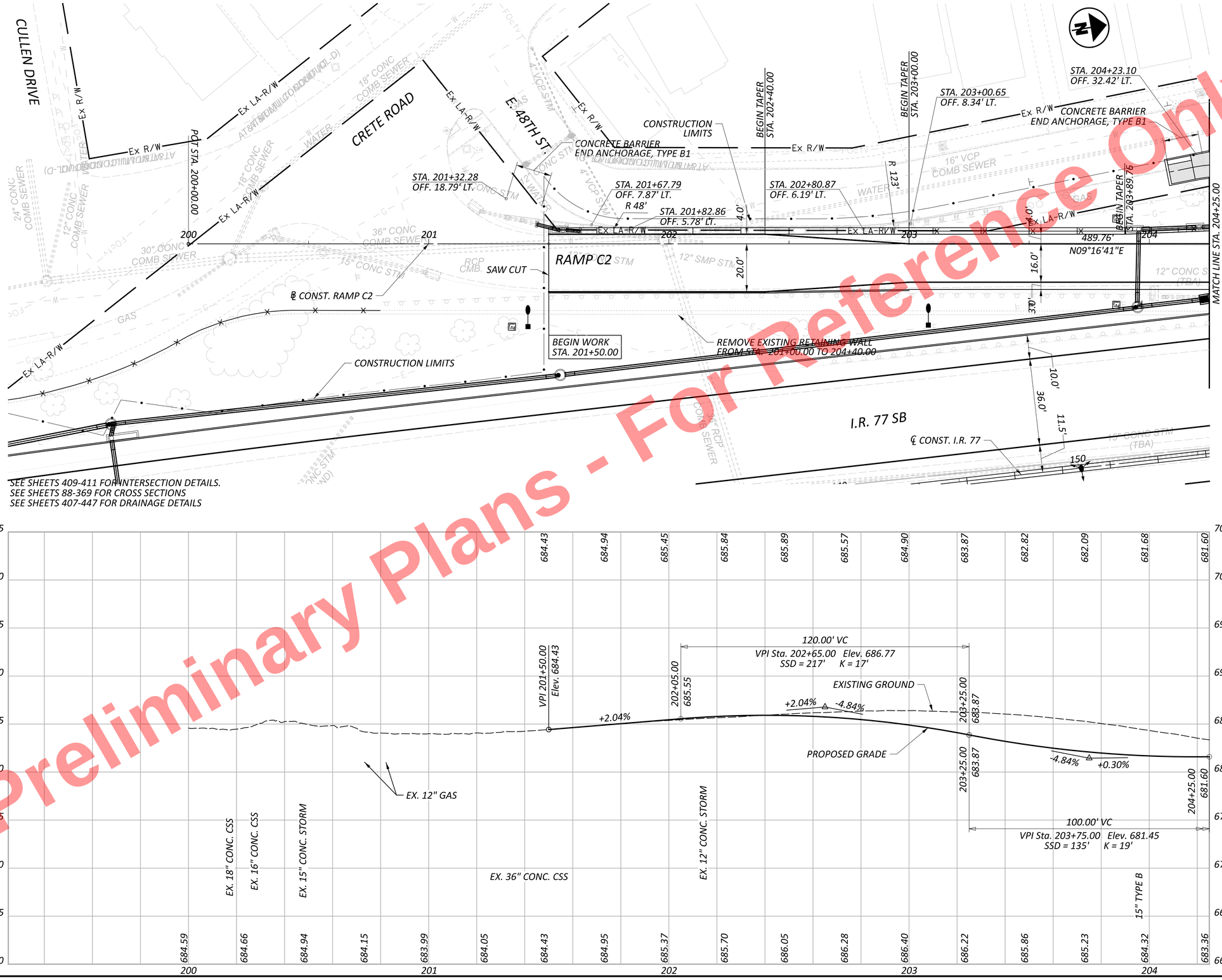


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C2
## BEGIN TO STA. 204+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.294 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C2 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:22:37 PM USER: kperkins
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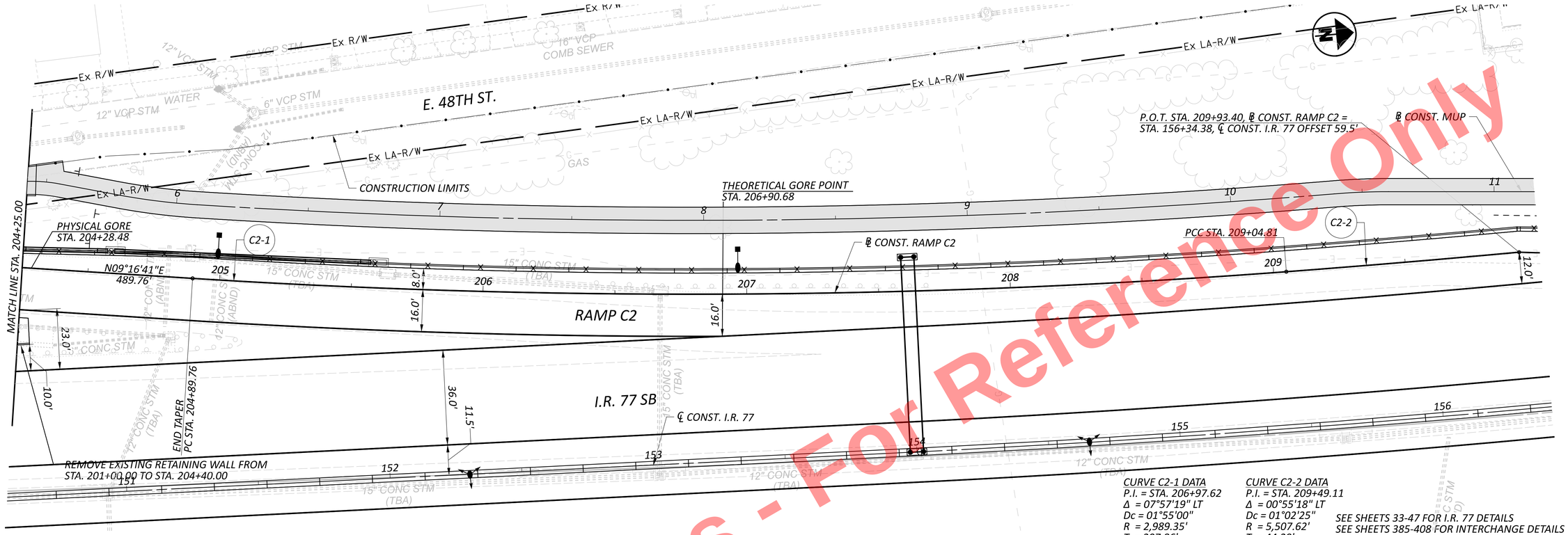


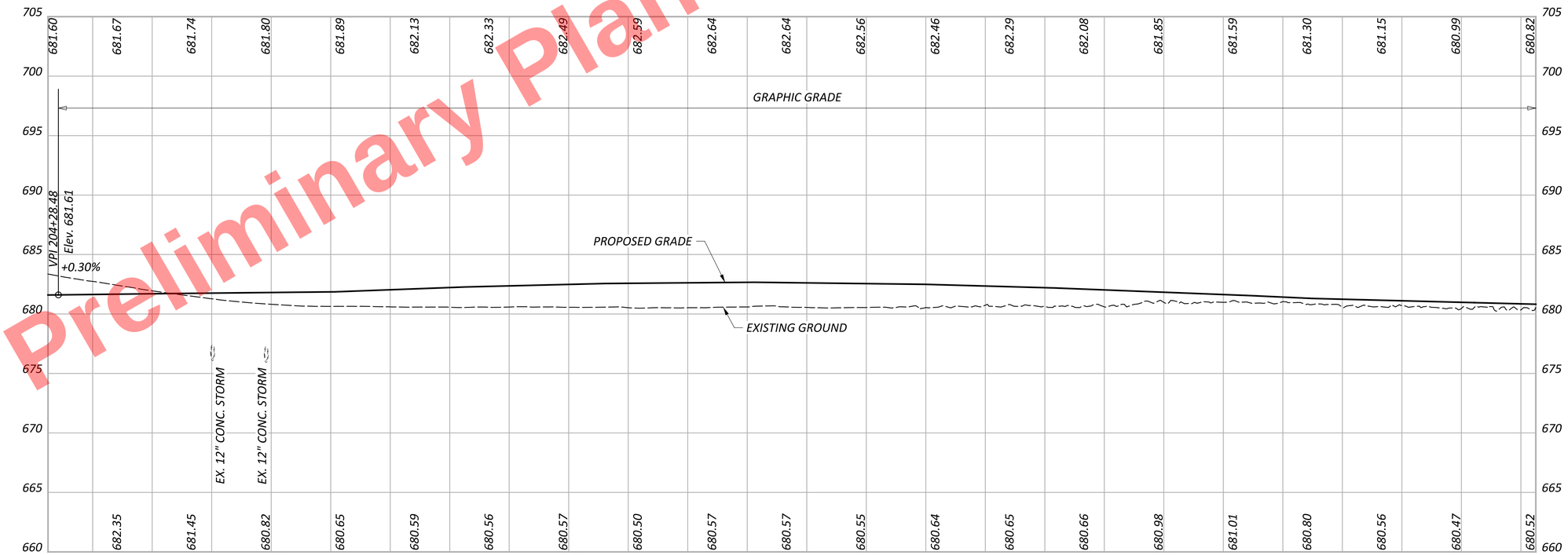


**CURVE C2-1 DATA**
P.I. = STA. 206+97.62
Δ = 07°57'19" LT
Dc = 01°55'00"
R = 2,989.35'
T = 207.86'
L = 415.06'
E = 7.22'

**CURVE C2-2 DATA**
P.I. = STA. 209+49.11
Δ = 00°55'18" LT
Dc = 01°02'25"
R = 5,507.62'
T = 44.29'
L = 88.59'
E = 0.18'

SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-408 FOR INTERCHANGE DETAILS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C2
## STA. 204+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.295 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C2 - Plan A2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:22:51 PM USER: kperkins
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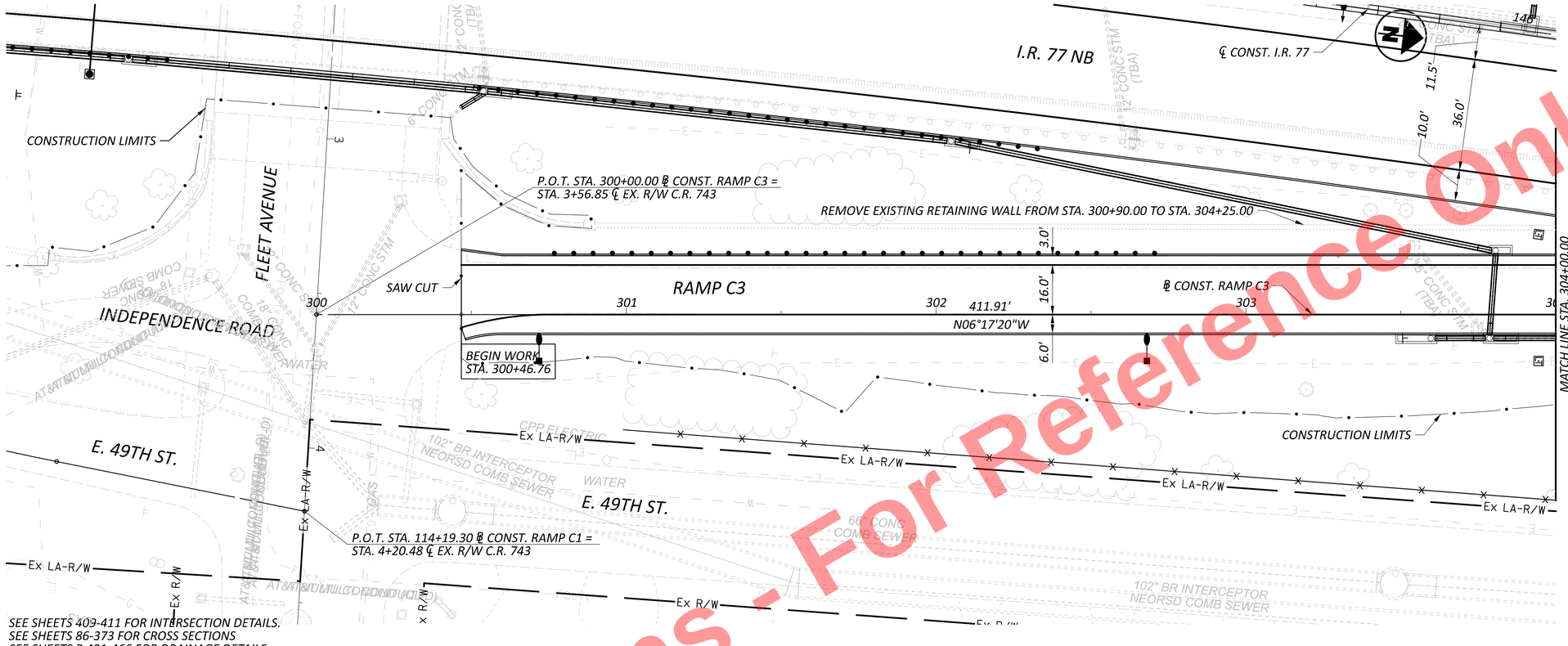
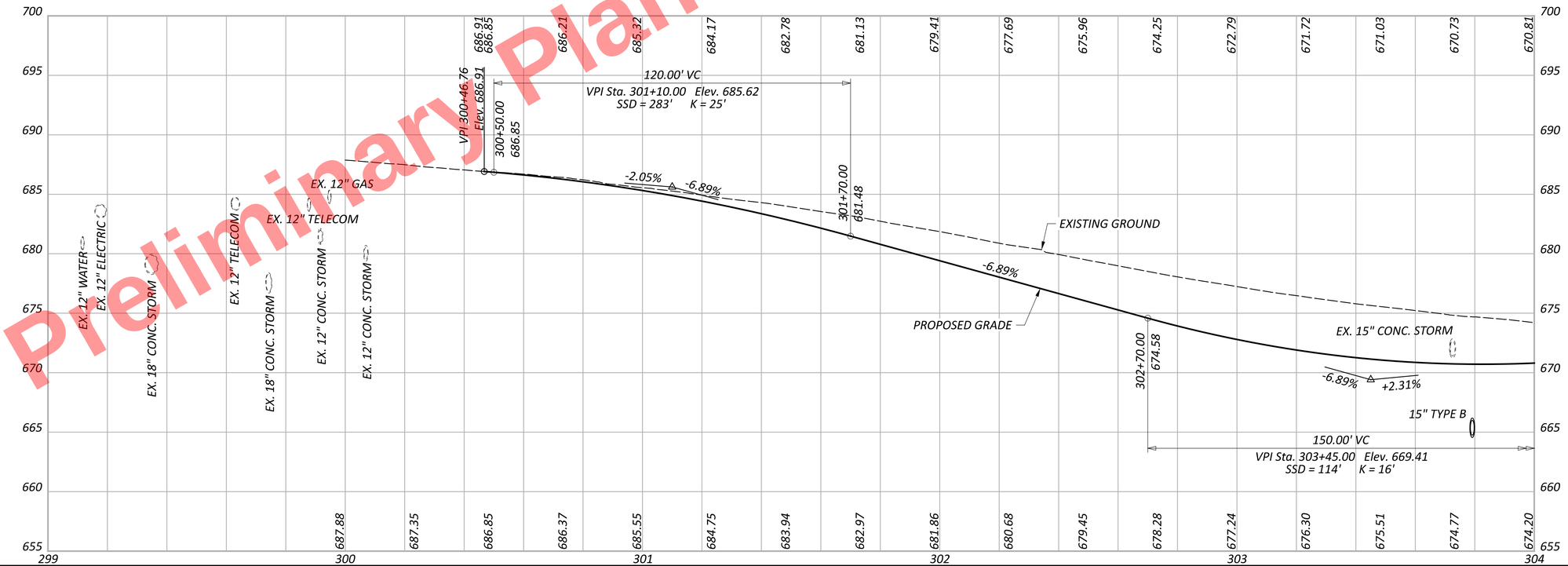
Preliminary Plans - For Reference Only




SEE SHEETS 409-411 FOR INTERSECTION DETAILS.
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP C3
## BEGIN TO STA. 304+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.296 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:03 PM USER: kperkins
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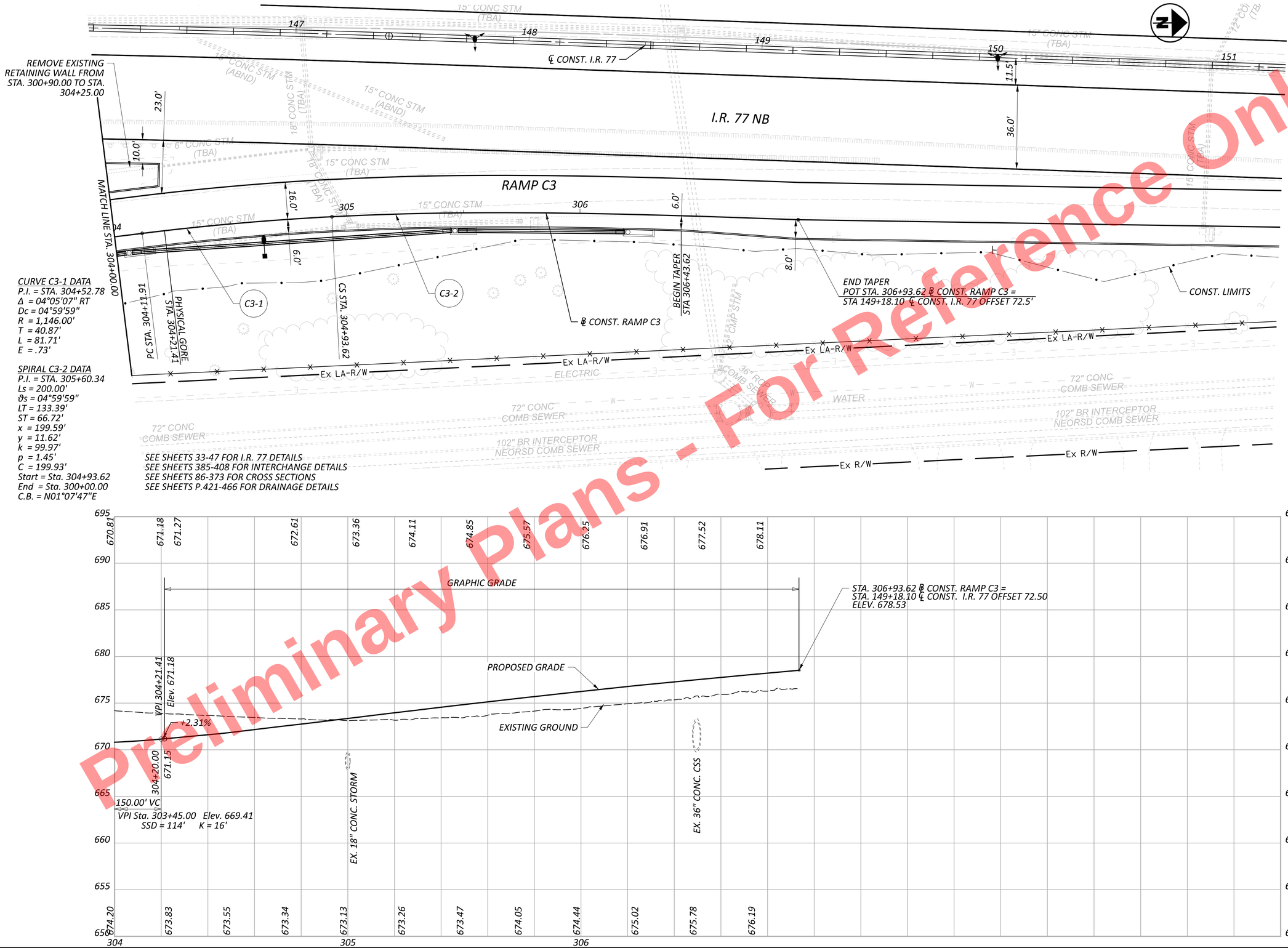


CURVE C3-1 DATA
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

SPIRAL C3-2 DATA
P.I. = STA. 305+60.34
Ls = 200.00'
ϑs = 04°59'59"
LT = 133.39'
ST = 66.72'
x = 199.59'
y = 11.62'
k = 99.97'
p = 1.45'
C = 199.93'
Start = Sta. 304+93.62
End = Sta. 300+00.00
C.B. = N01°07'47"E

SEE SHEETS 33-47 FOR I.R. 77 DETAILS
SEE SHEETS 385-408 FOR INTERCHANGE DETAILS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C3
STA. 304+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.297 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743C3 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:04 PM USER: kperkins
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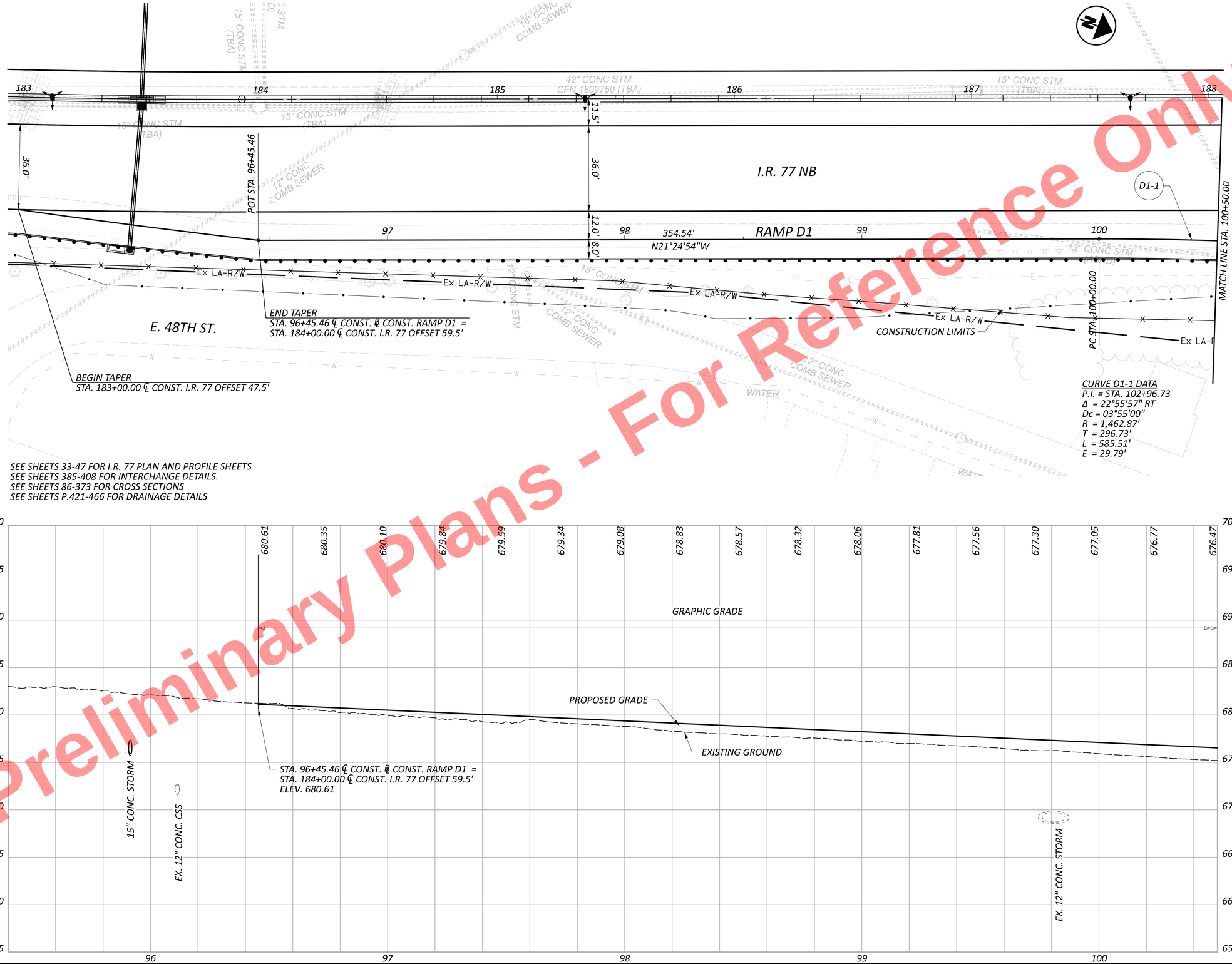


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP D1
## BEGIN RAMP TO STA. 96+45

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.298 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: BLP_R329D1 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:21 PM USER: kperkins
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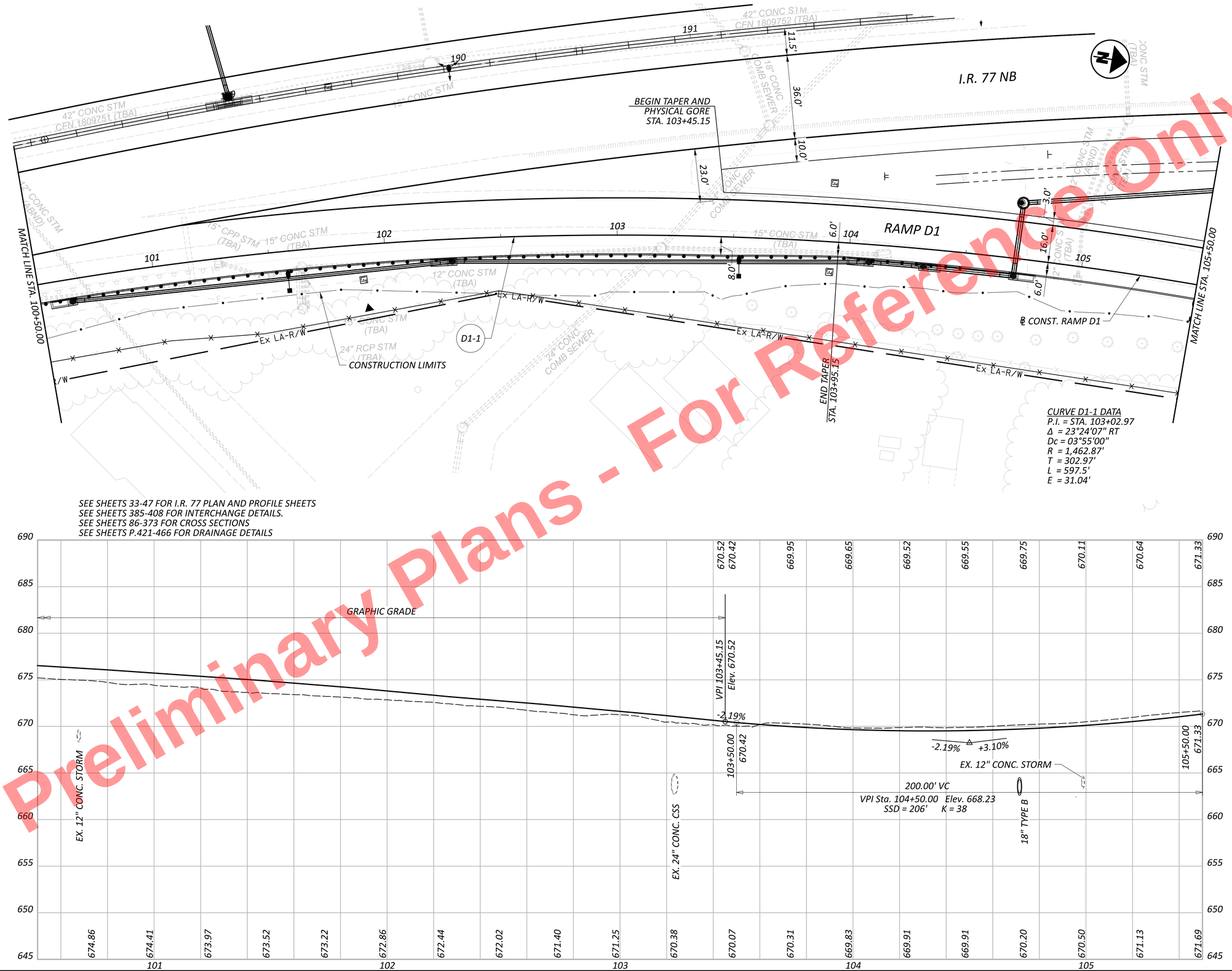



SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS 385-408 FOR INTERCHANGE DETAILS.
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS

CURVE D1-1 DATA
P.I. = STA. 103+02.97
Δ = 23°24'07" RT
Dc = 03°55'00"
R = 1,462.87'
T = 302.97'
L = 597.5'
E = 31.04'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP D1
## STA. 96+45 TO STA. 101+50

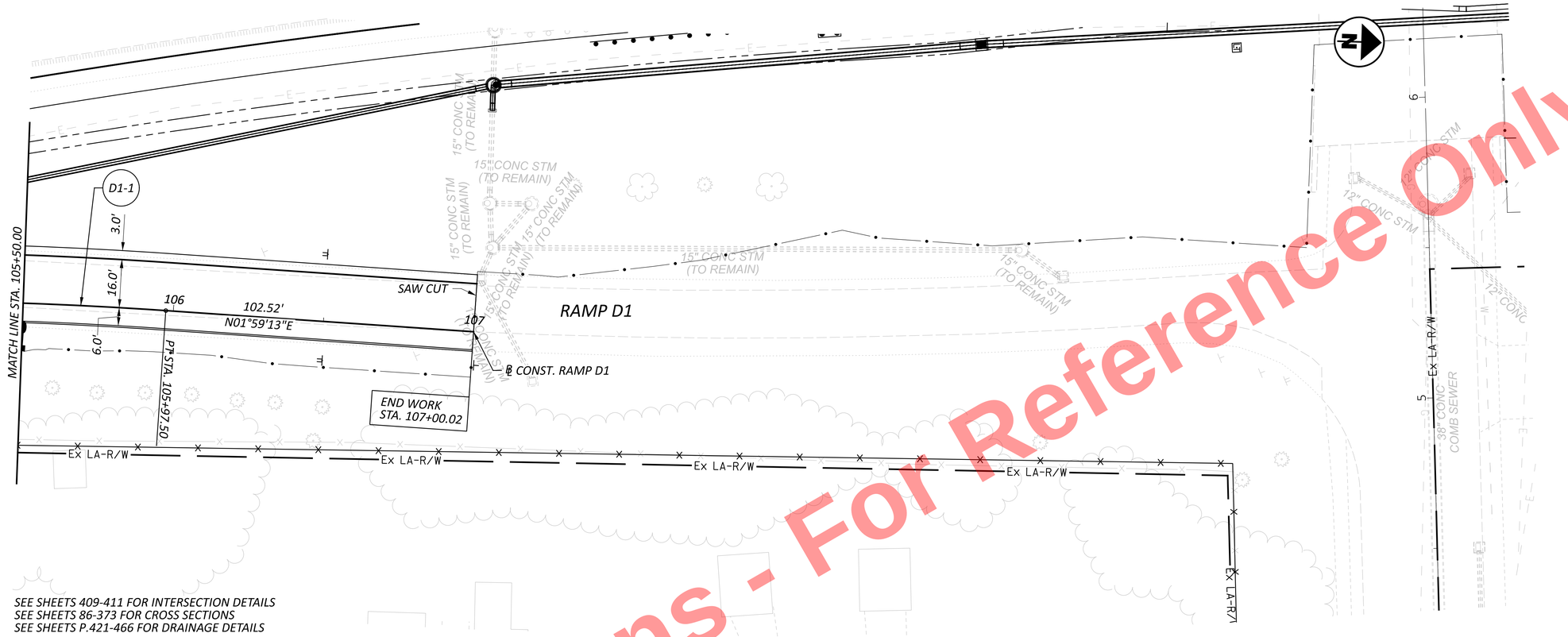
DESIGN AGENCY
HNTB

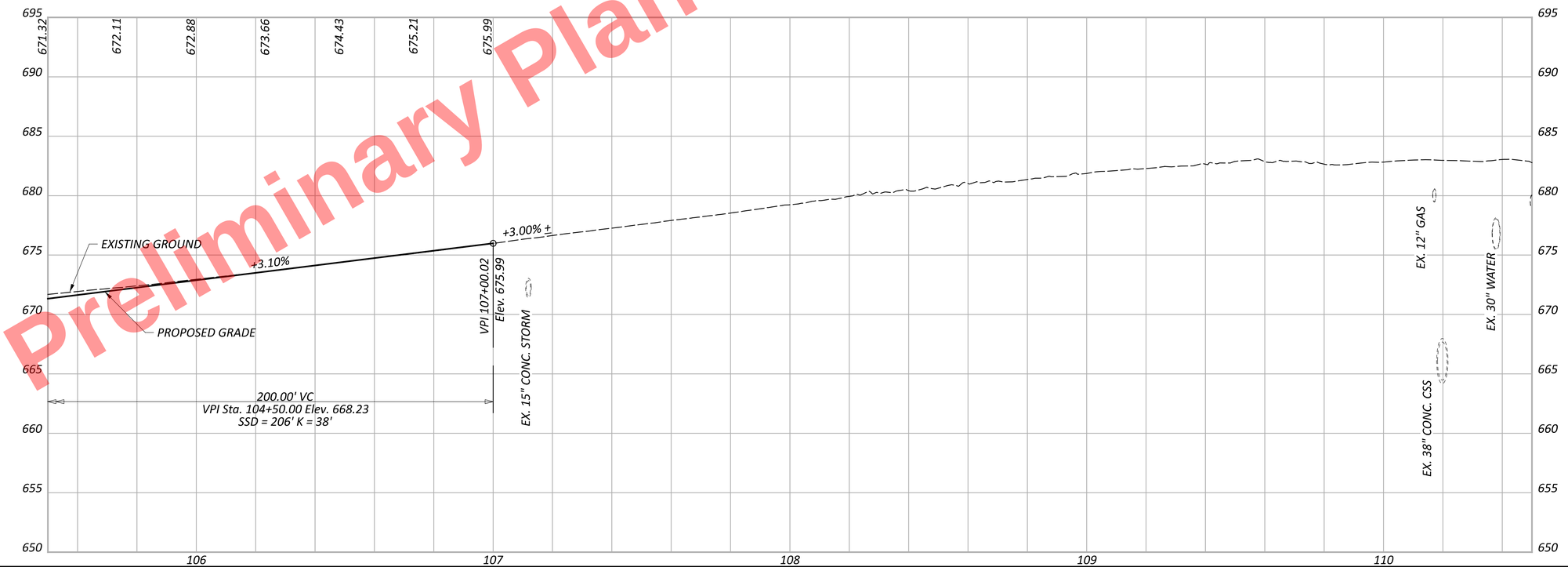
DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.299 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R329D1 - Plan A2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:34 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_GP501.dgn

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP D1
STA. 101+50 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.300 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R329D1 - Plan A3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:36 PM USER: kperkins
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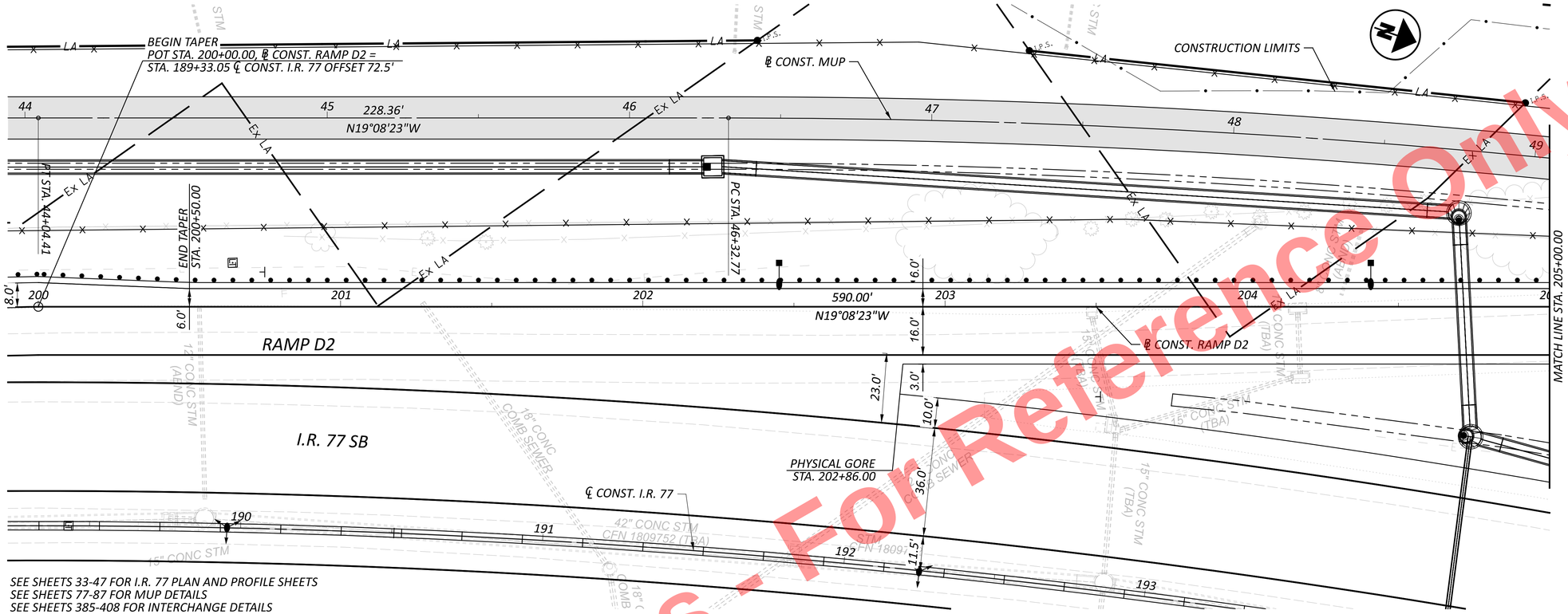


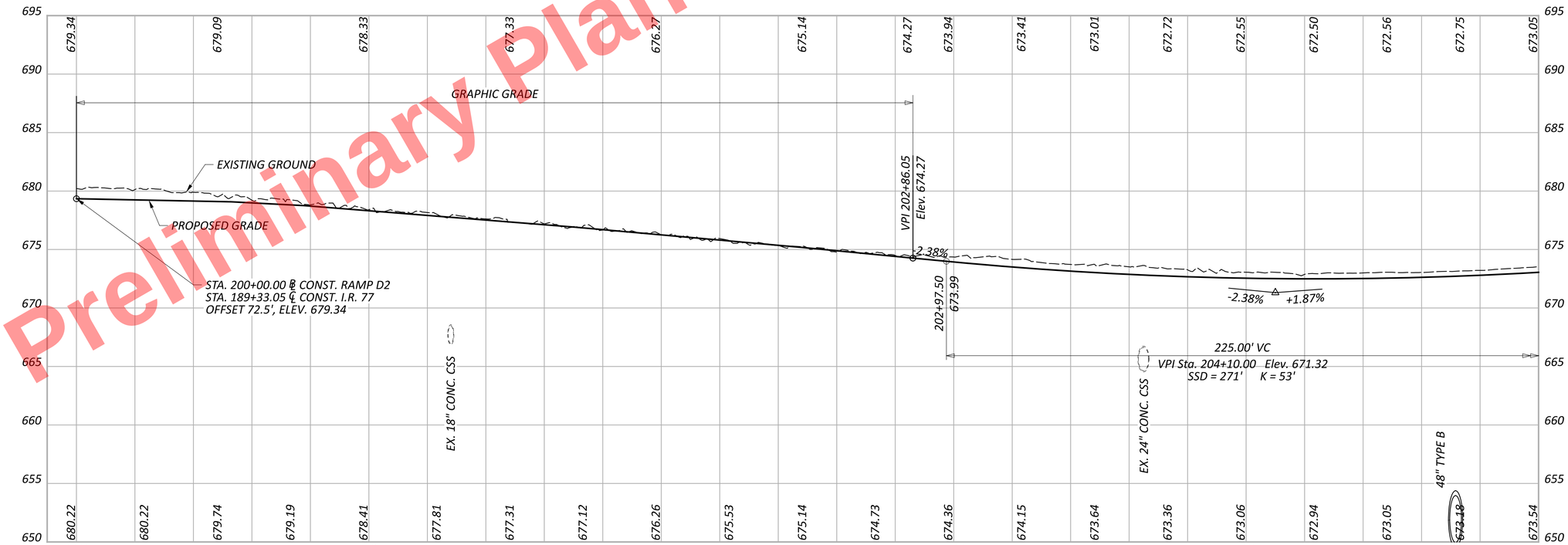


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP D2
## BEGIN TO STA. 205+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.301 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R329D2 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:47 PM USER: kperkins
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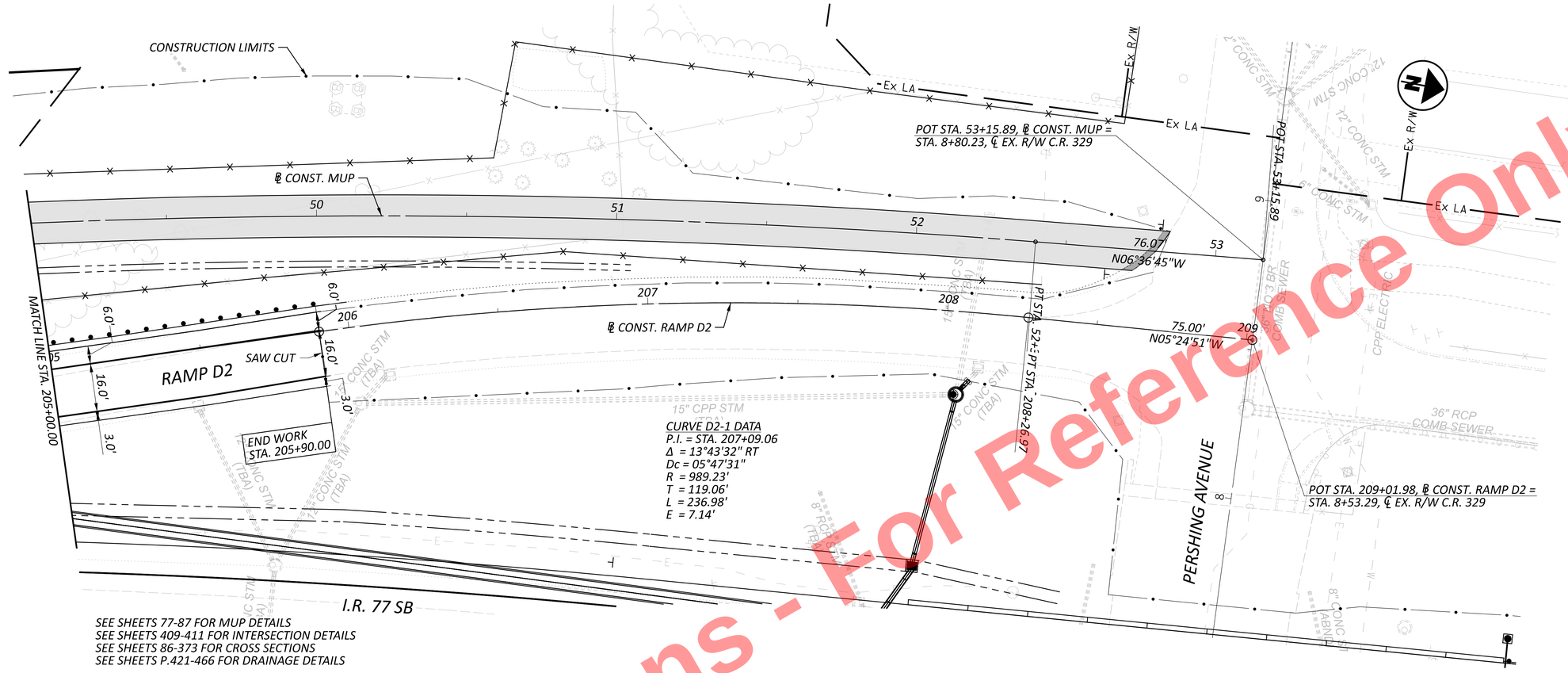


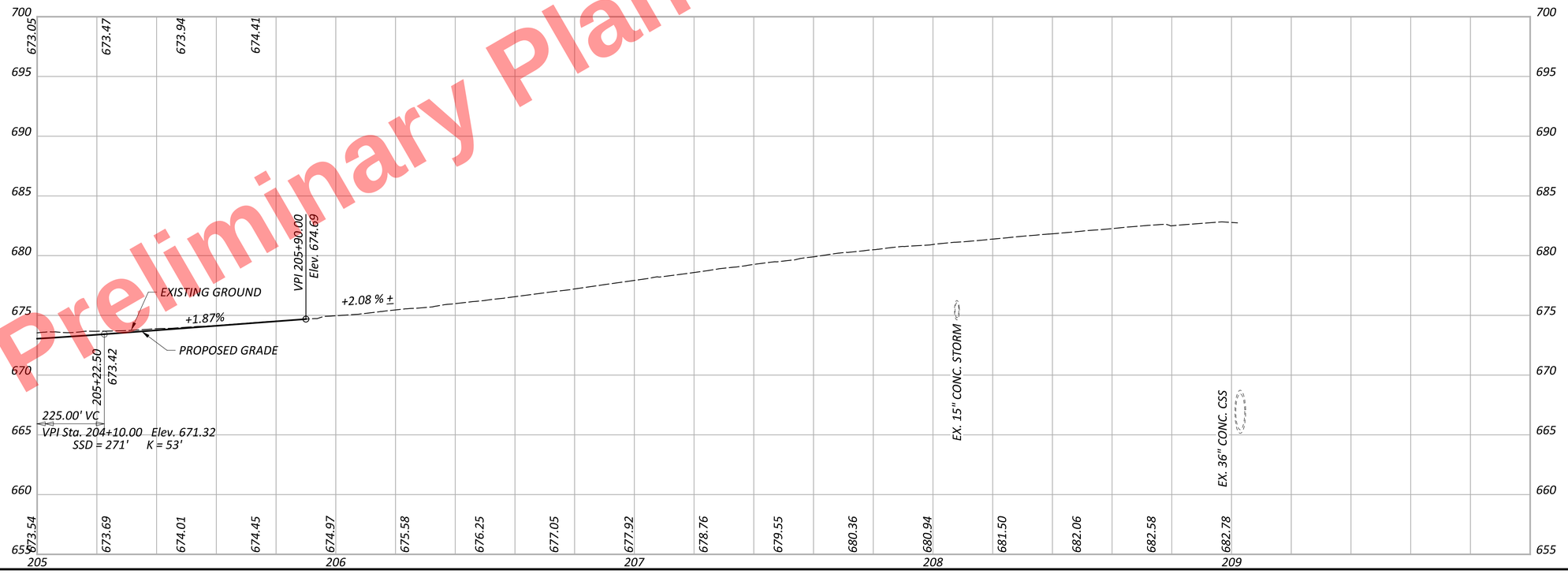


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP D2
## STA. 205+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.302 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R329D2 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:23:51 PM USER: kperkins
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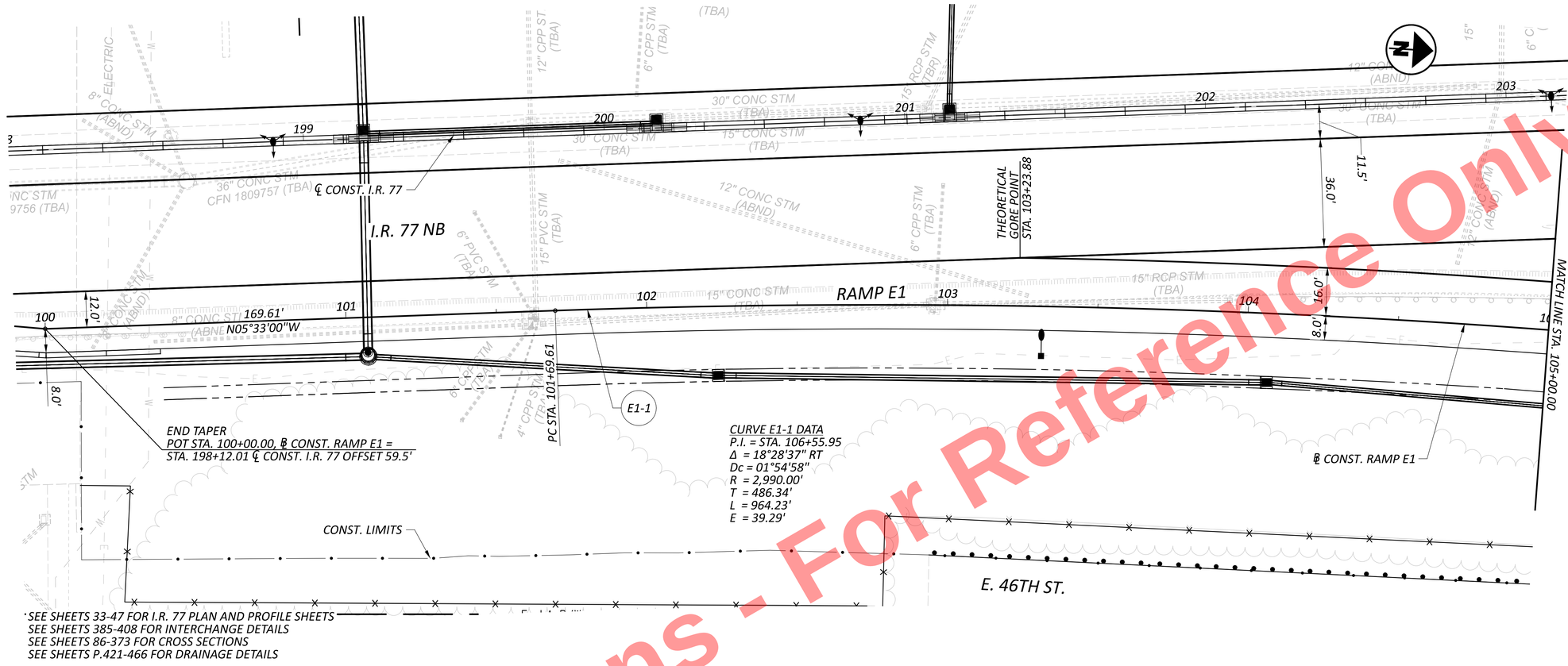


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E1
BEGIN TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.303 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043E1 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:24:02 PM USER: kperkins
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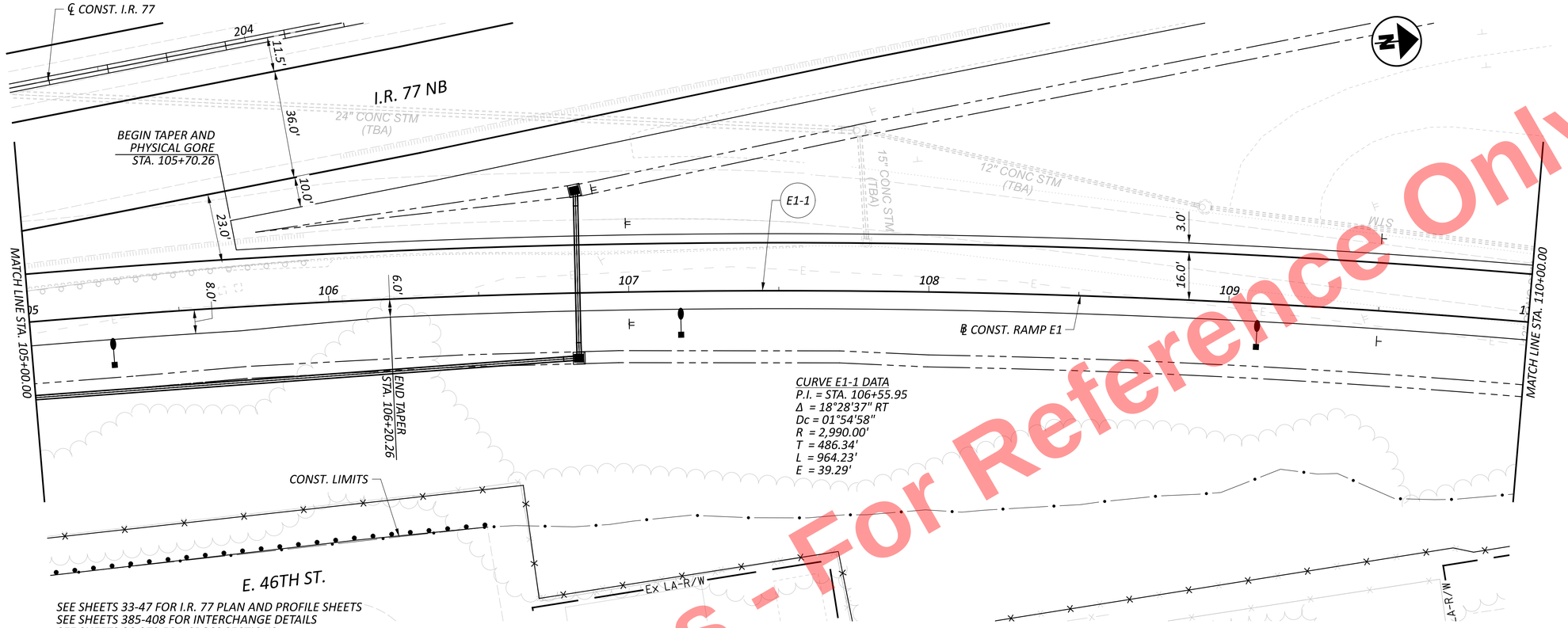


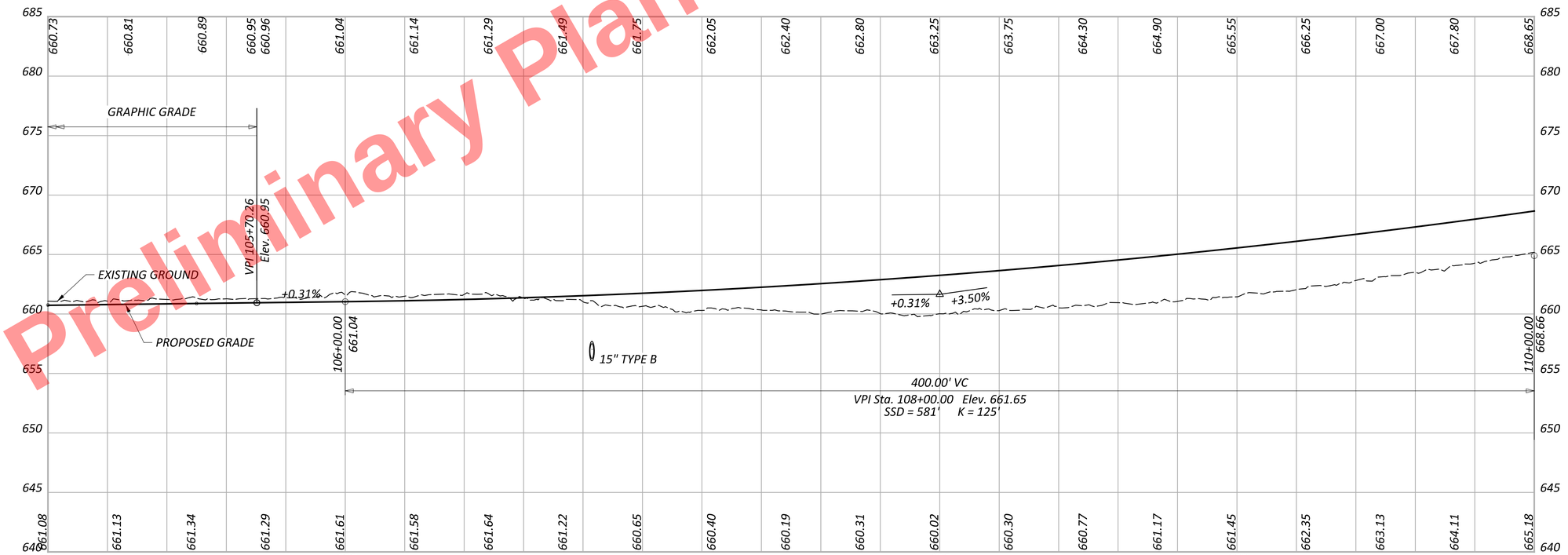


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP E1
## STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.304 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043E1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:24:05 PM USER: kperkins
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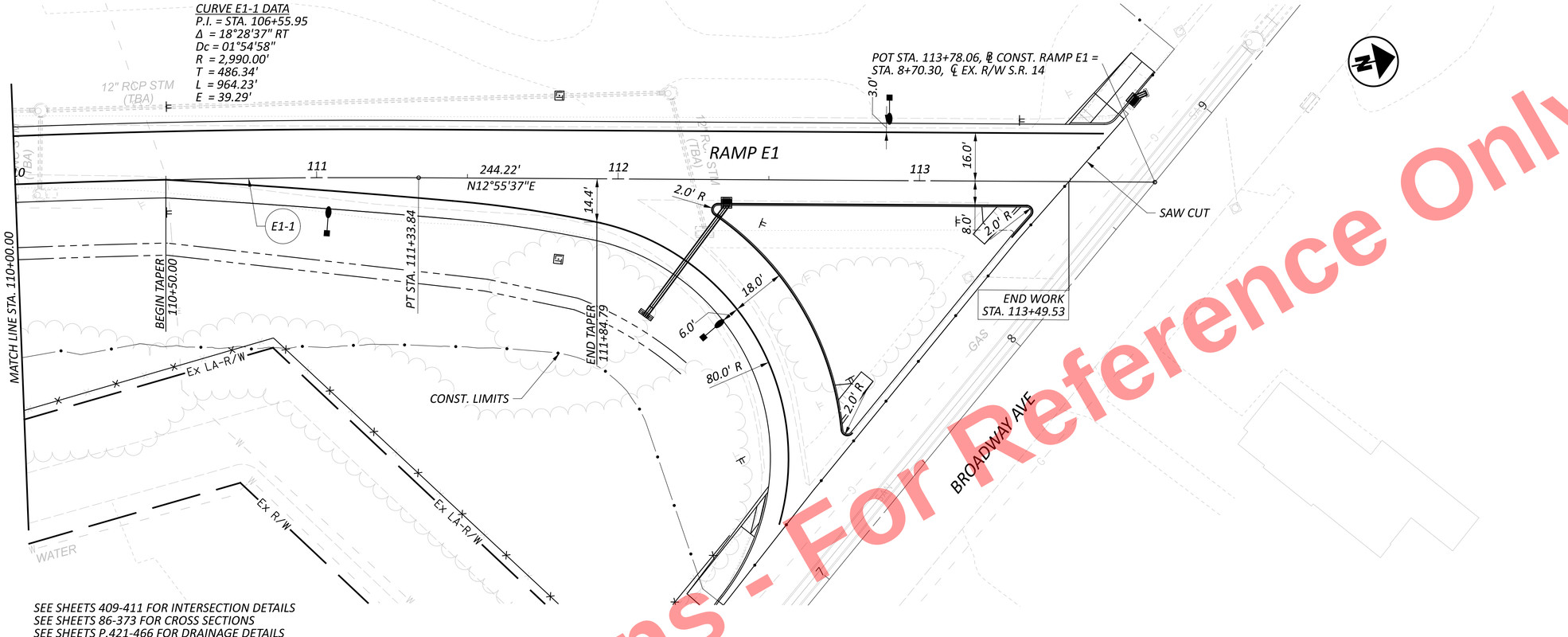
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - RAMP E1
## STA. 110+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 11/05/25
PROJECT ID 105743
SHEET P.305 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043E1 - Plan A3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:24:06 PM USER: kperkins
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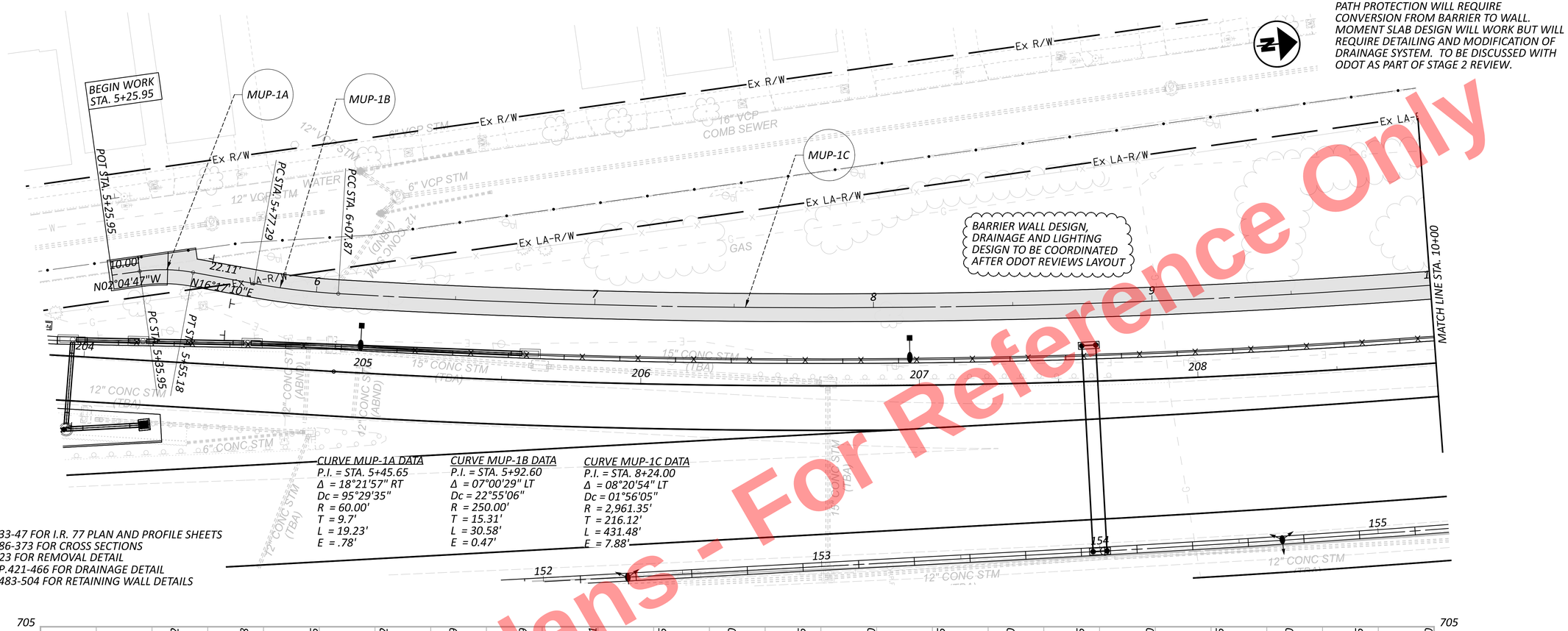
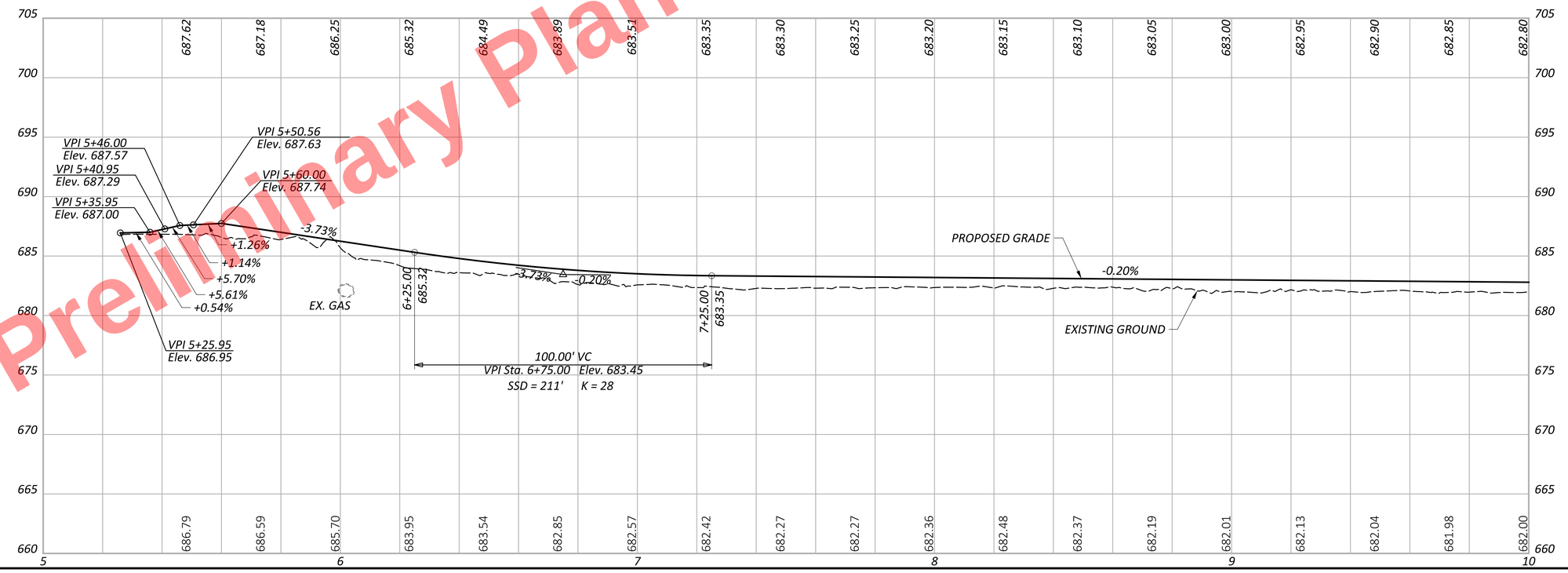



**CURVE MUP-1A DATA**
P.I. = STA. 5+45.65
Δ = 18°21'57" RT
Dc = 95°29'35"
R = 60.00'
T = 9.7'
L = 19.23'
E = .78'

**CURVE MUP-1B DATA**
P.I. = STA. 5+92.60
Δ = 07°00'29" LT
Dc = 22°55'06"
R = 250.00'
T = 15.31'
L = 30.58'
E = 0.47'

**CURVE MUP-1C DATA**
P.I. = STA. 8+24.00
Δ = 08°20'54" LT
Dc = 01°56'05"
R = 2,961.35'
T = 216.12'
L = 431.48'
E = 7.88'

SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEET 423 FOR REMOVAL DETAIL
SEE SHEETS P.421-466 FOR DRAINAGE DETAIL
SEE SHEETS 483-504 FOR RETAINING WALL DETAILS




Preliminary Plans - For Reference Only

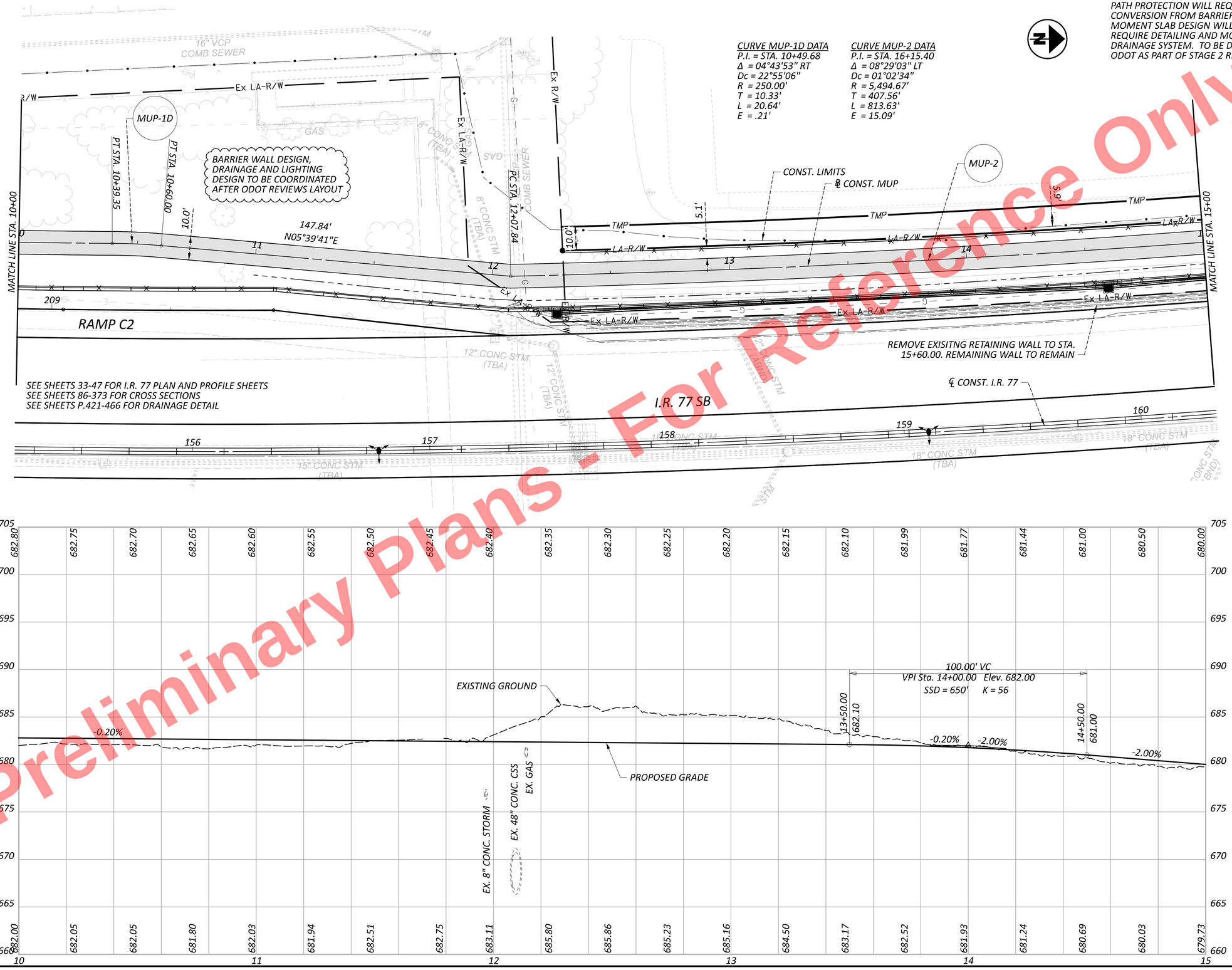
PLAN AND PROFILE - MUP WEST
BEGIN TO STA. 10+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.306 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 9:35:16 AM USER: janmurray
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP701.dgn




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 10 20 40

# PLAN AND PROFILE - MUP WEST
## STA. 10+00.00 TO STA. 15+00.00

DESIGN AGENCY HNTB

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.307 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 9:33:14 AM USER: janmurray
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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:25 PM USER: asingleton
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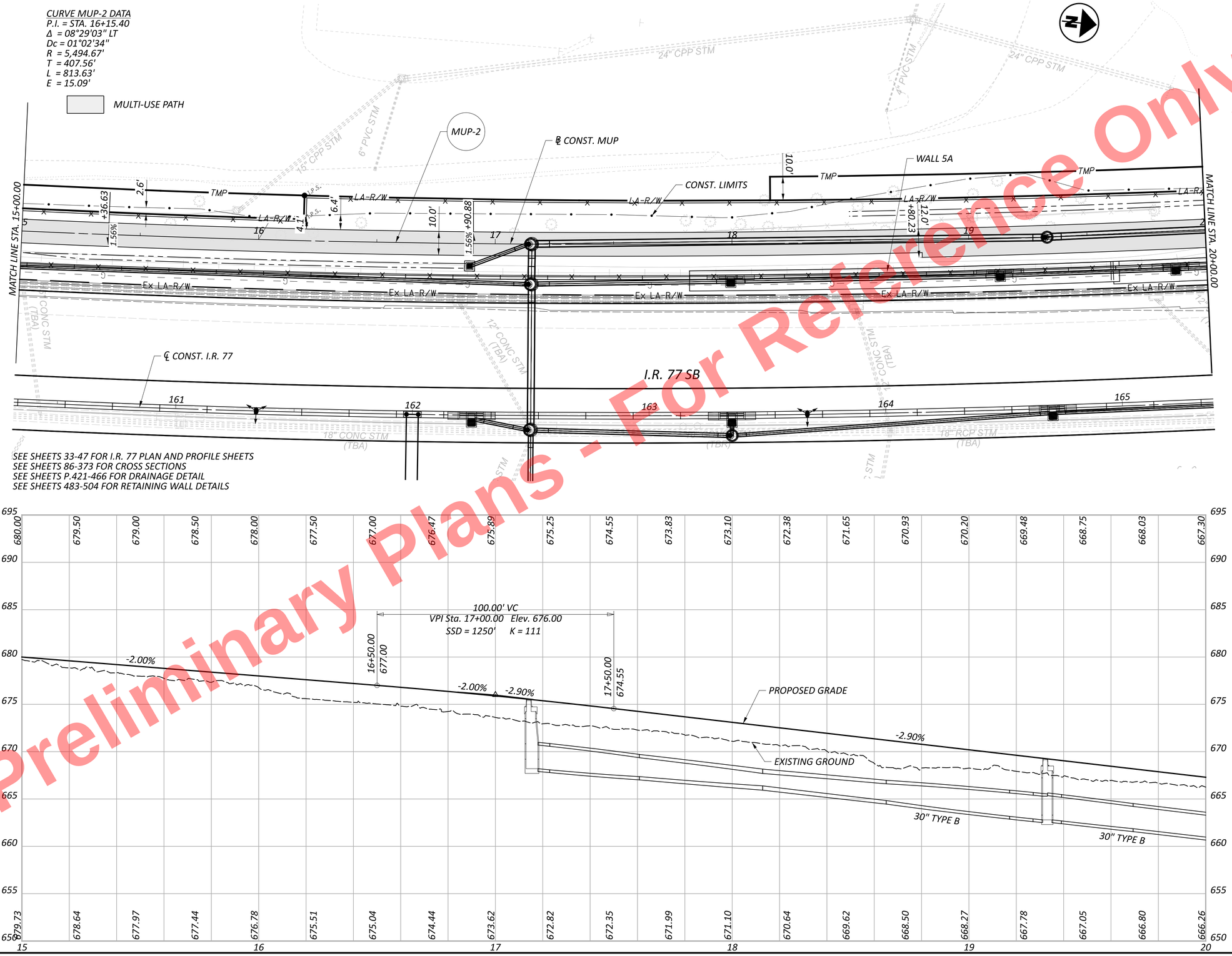
*CURVE MUP-2 DATA*
*P.I. = STA. 16+15.40*
*Δ = 08°29'03" LT*
*Dc = 01°02'34"*
*R = 5,494.67'*
*T = 407.56'*
*L = 813.63'*
*E = 15.09'*

MULTI-USE PATH




*SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS*
*SEE SHEETS 86-373 FOR CROSS SECTIONS*
*SEE SHEETS P.421-466 FOR DRAINAGE DETAIL*
*SEE SHEETS 483-504 FOR RETAINING WALL DETAILS*

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 15+00.00 TO STA. 20+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.308 |
| TOTAL | P.1135 |

CURVE MUP-2 DATA
P.I. = STA. 16+15.40
Δ = 08°29'03" LT
Dc = 01°02'34"
R = 5,494.67'
T = 407.56'
L = 813.63'
E = 15.09'

MULTI-USE PATH

DO NOT DISTURB GAS WELL

ONGOING COORDINATION FOR DRIVE RELOCATION. DETAILS TO BE PROVIDED IN A FUTURE SUBMITTAL.

MUP-2

PT STA. 20+21.47

CONST. LIMITS

TMP

Ex LA-R/W

I.P.S.

12.0'

10.0'

3.8'

12.0'

MATCH LINE STA. 20+00

MATCH LINE STA. 25+00

885.52'
N09°07'33"W

WALL 5A

℄ CONST. MUP

℄ CONST. MUPE

℄ CONST. I.R. 77

I.R. 77 SB

Ex LA

Ex SW

MS X3

Ex LA-R/W

TMP

Ex SW

48" RCP STM

144"x126" CSO COMB SEWER

40" BR CSO OVERFLOW COMB SEWER

36" CPP STM

12" CONC STM (TBA)

12" CONC STM (ABND)

SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS
SEE SHEETS 20-504 FOR RETAINING WALL DETAILS
SEE SHEETS P.0-P.0 FOR CULVERT DETAILS

-2.90%

+3.05%

PROPOSED GRADE

EXISTING GROUND

30" TYPE B

30" TYPE B

23+75.00
656.43

200.00' VC
VPI Sta. 24+75.00 Elev. 653.53
SSD = 189' K = 34

EX. 60" CONC. CSS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 20+00.00 TO STA. 25+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.309 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:27 PM USER: asingleton
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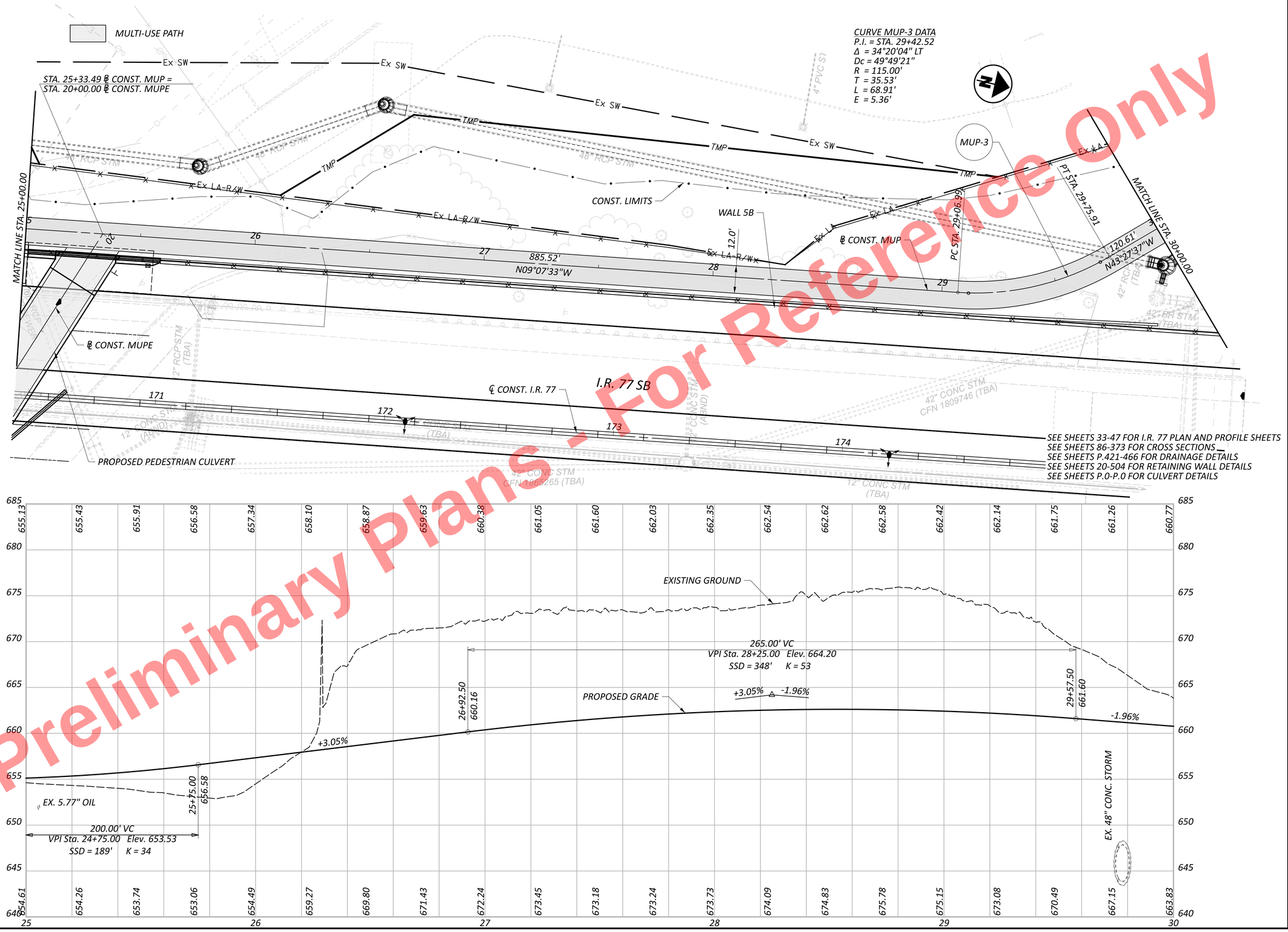
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 25+00.00 TO STA. 30+00.00

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.310 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:29 PM USER: asingleton
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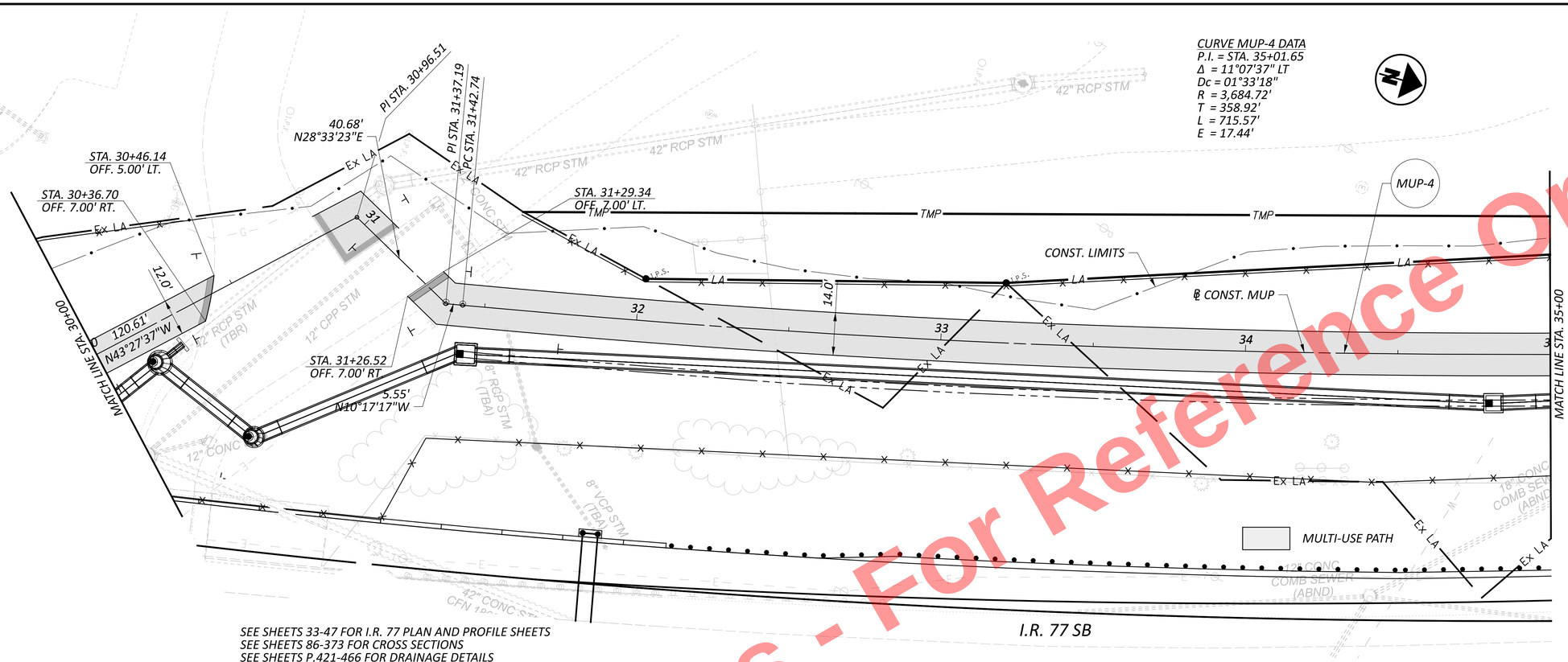
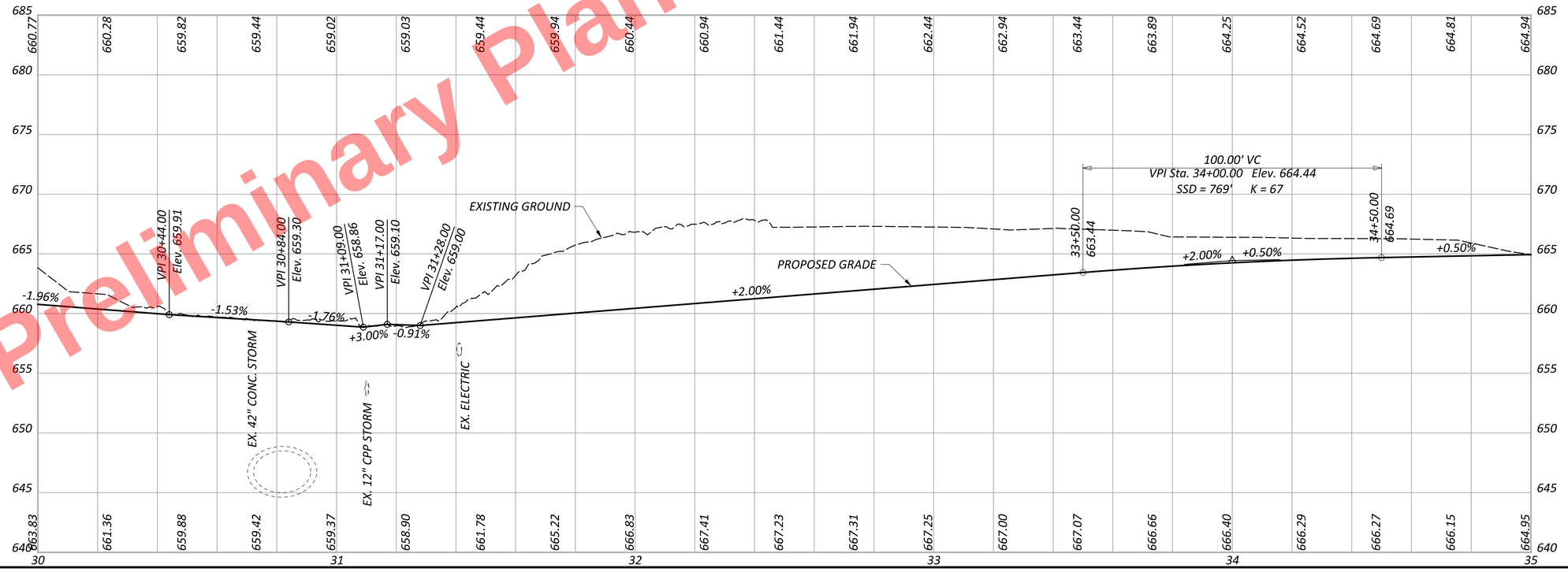



SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 30+00.00 TO STA. 35+00.00

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 3:06:27 PM USER: asingleton
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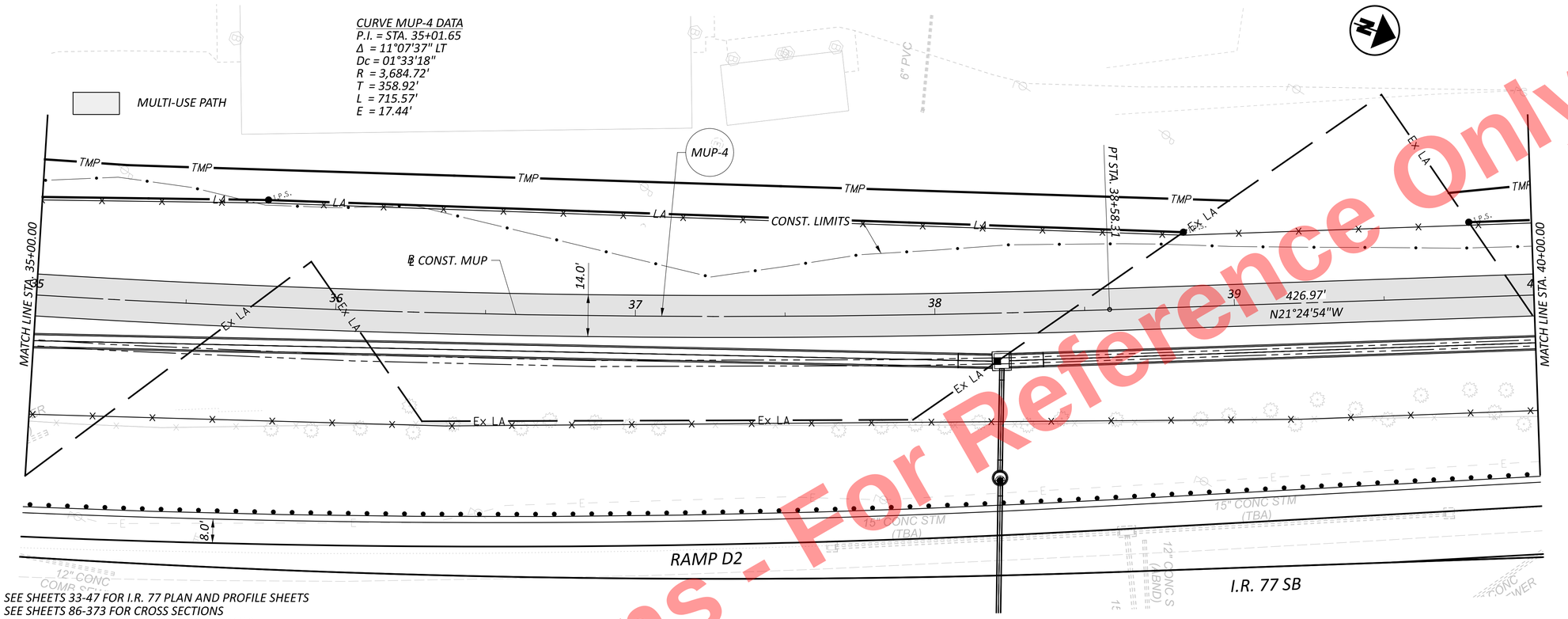
| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.311 |
| TOTAL | P.1135 |

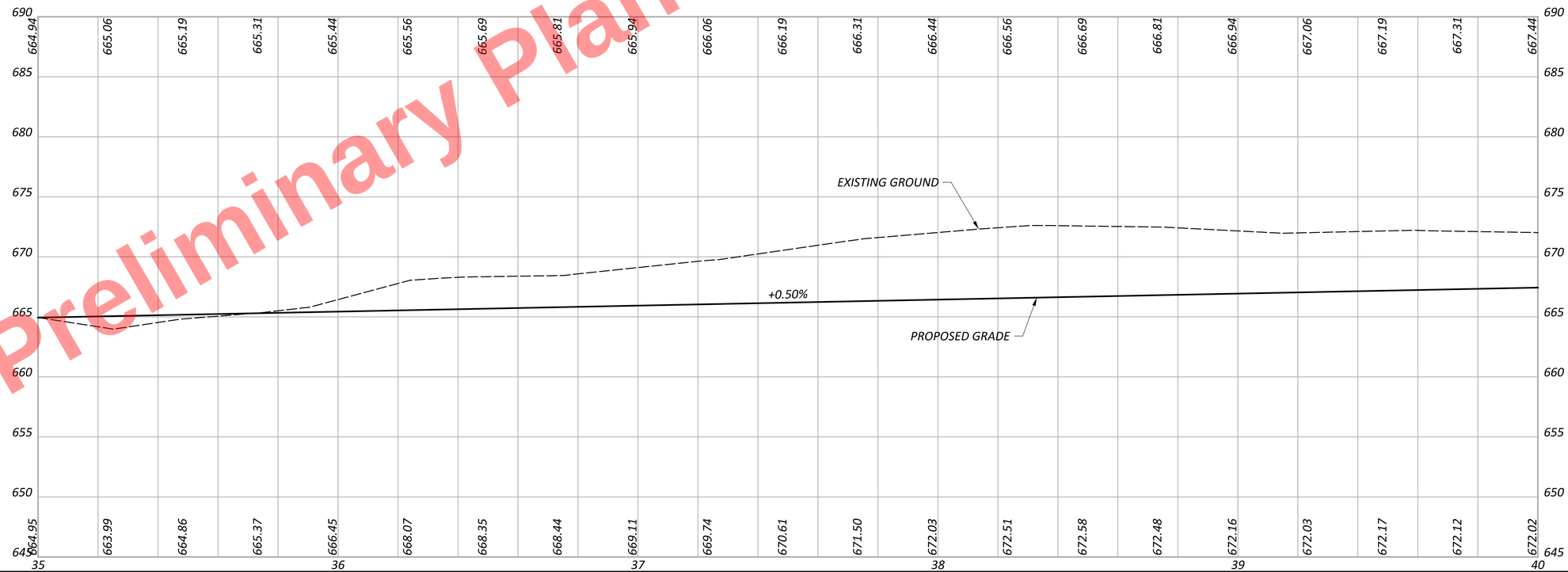
Preliminary Plans - For Reference Only

CURVE MUP-4 DATA
P.I. = STA. 35+01.65
Δ = 11°07'37" LT
Dc = 01°33'18"
R = 3,684.72'
T = 358.92'
L = 715.57'
E = 17.44'

MULTI-USE PATH




SEE SHEETS 33-47 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS 86-373 FOR CROSS SECTIONS
SEE SHEETS P.421-466 FOR DRAINAGE DETAILS




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 35+00.00 TO STA. 40+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.312 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:34 PM USER: asingleton
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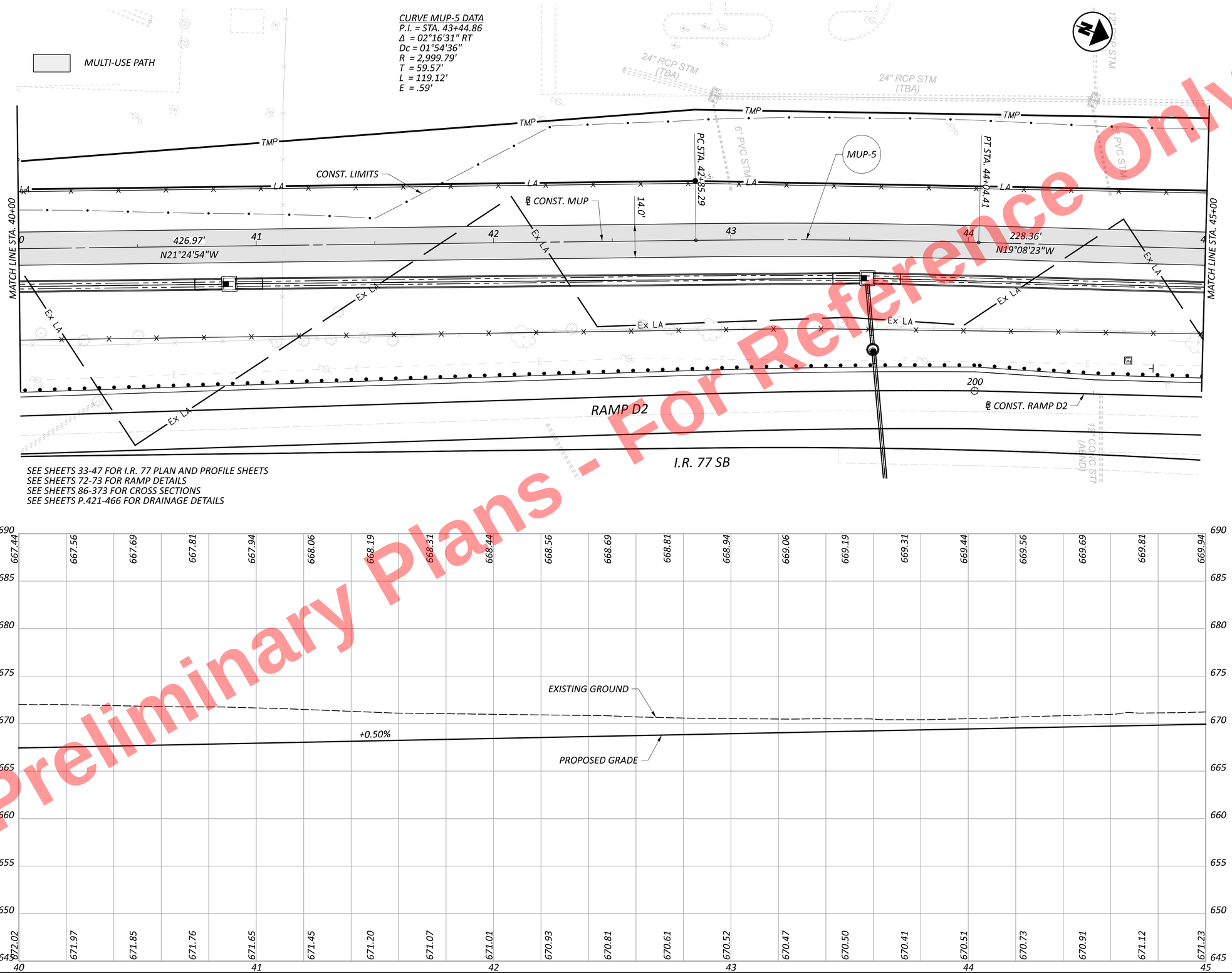


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 40+00.00 TO STA. 45+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.313 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: MUP - Plan & [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:36 PM USER: asingleton
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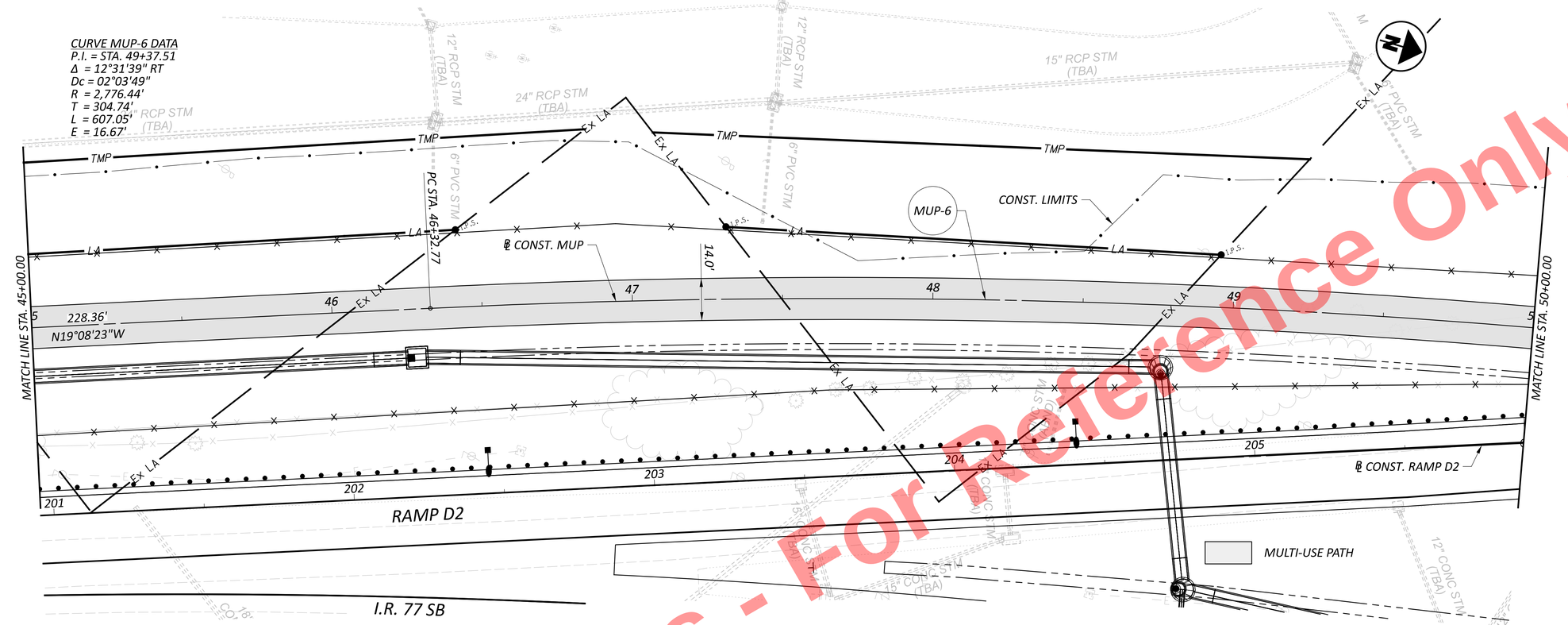
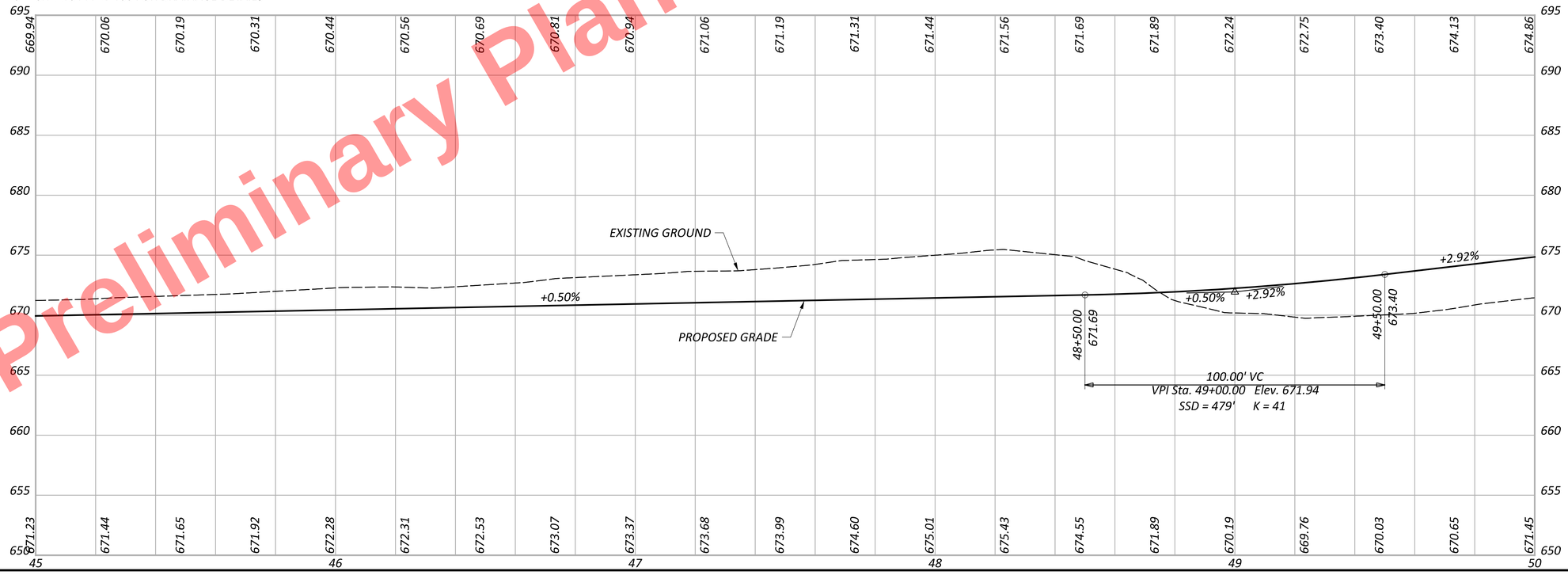
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 45+00.00 TO STA. 50+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.314 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:38 PM USER: asingleton
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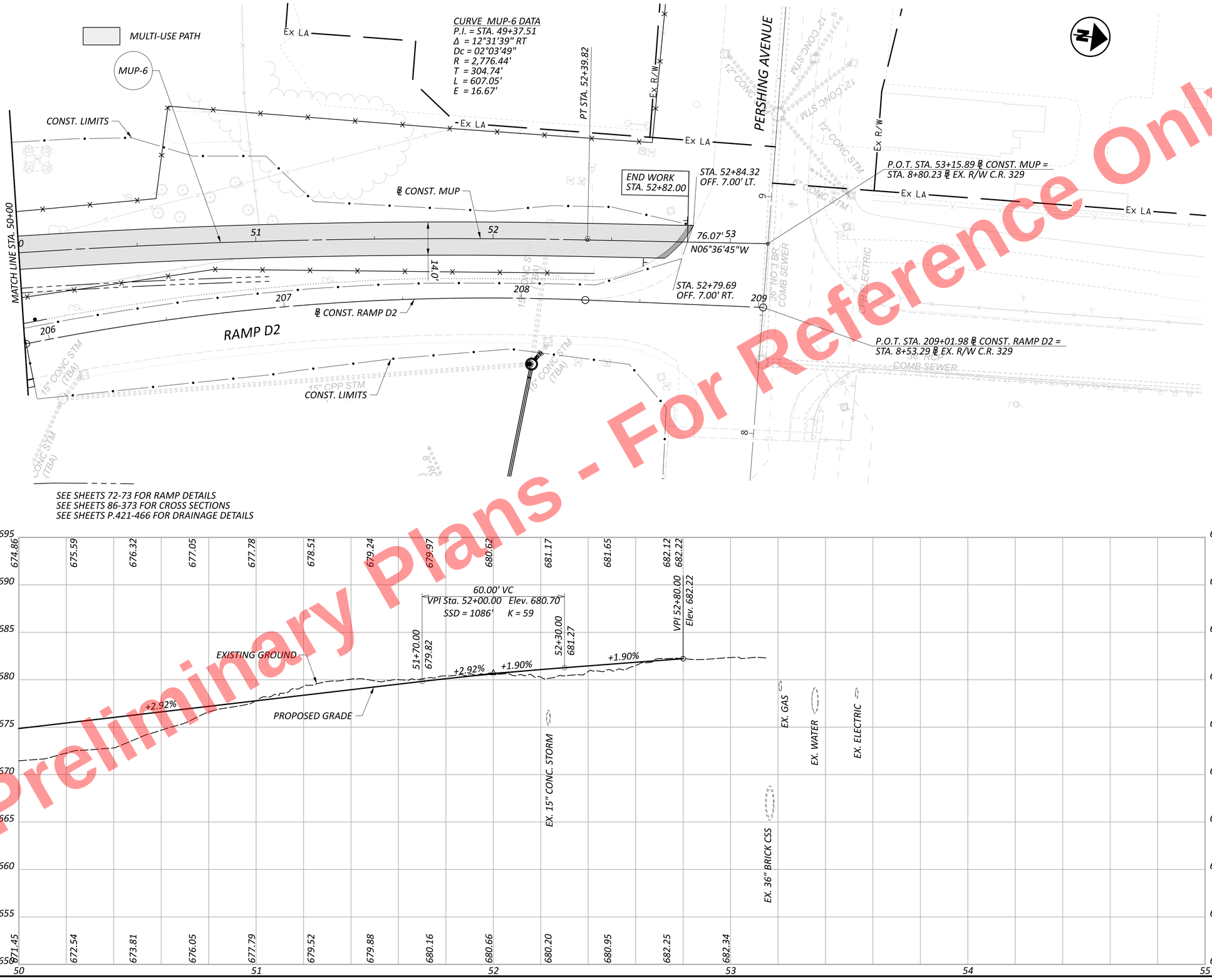


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP WEST
# STA. 50+00.00 TO END

CUY-77-11.43 - PART 1

MODEL: MUP - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:40 PM USER: asingleton
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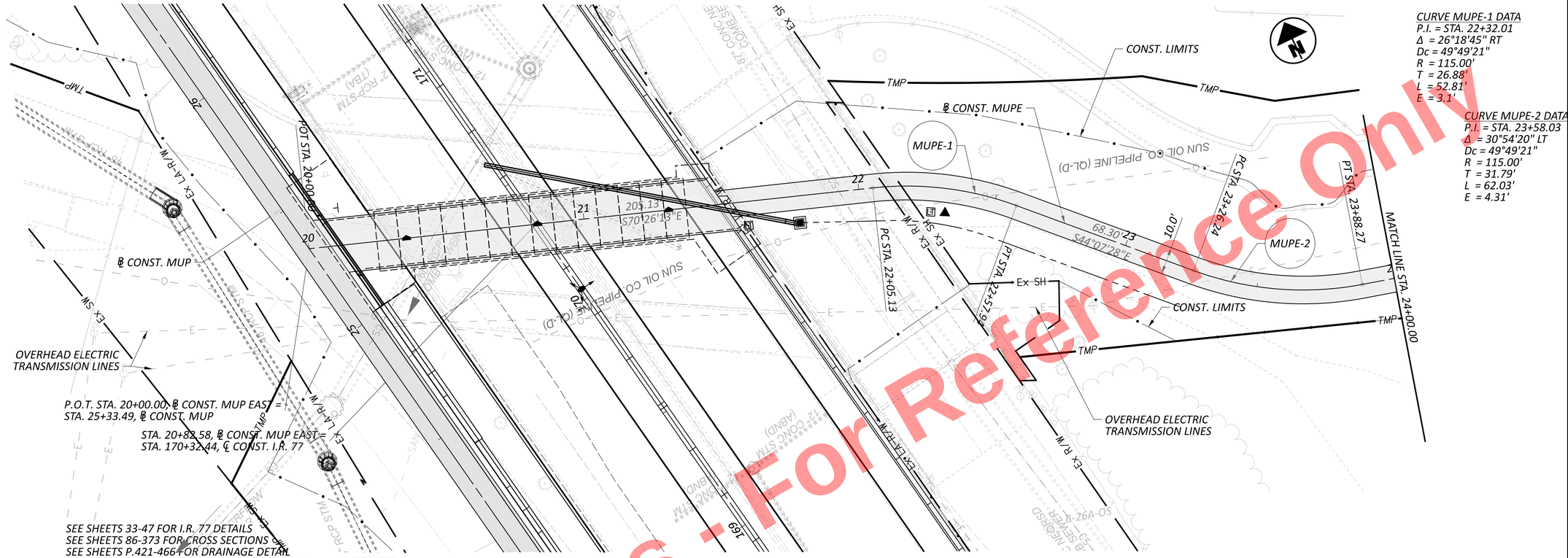
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.315 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

PLAN AND PROFILE - MUP EAST
BEGIN TO STA. 24+00.00

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | MTD |
| REVIEWER | KKP 04/04/22 |
| PROJECT ID | 105743 |
| SHEET | P.316 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_6 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:57:52 PM USER: asingleton
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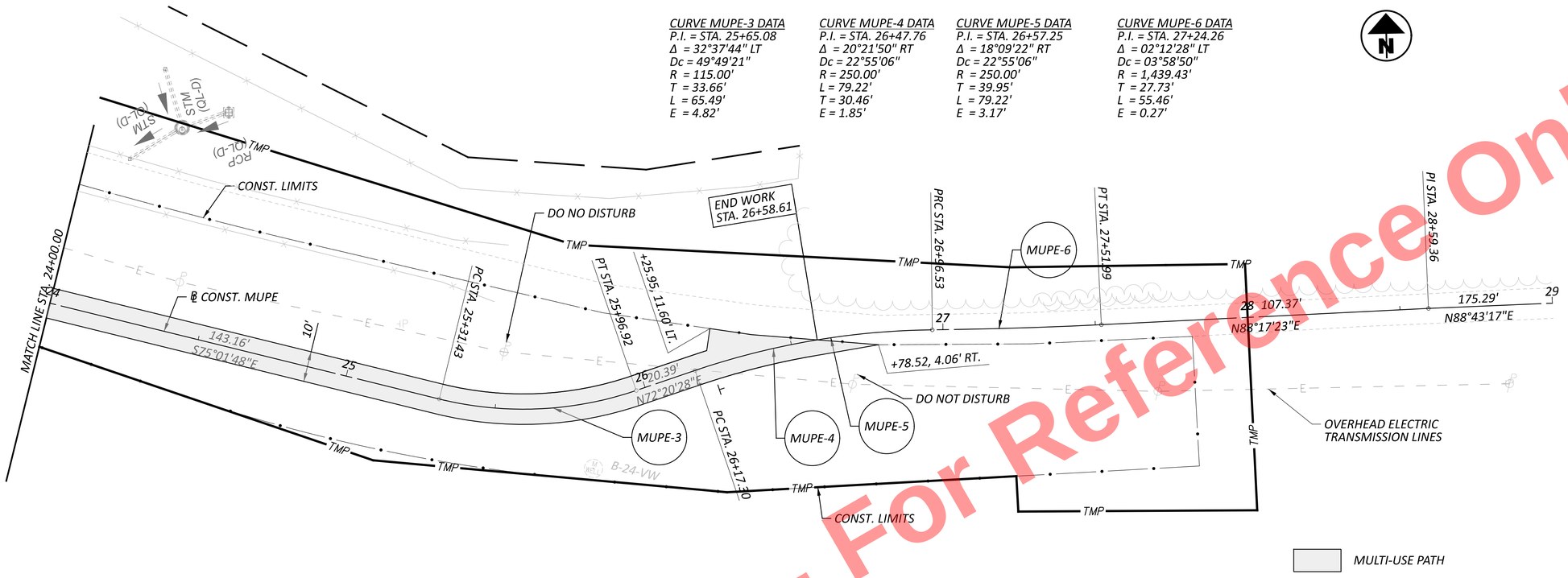


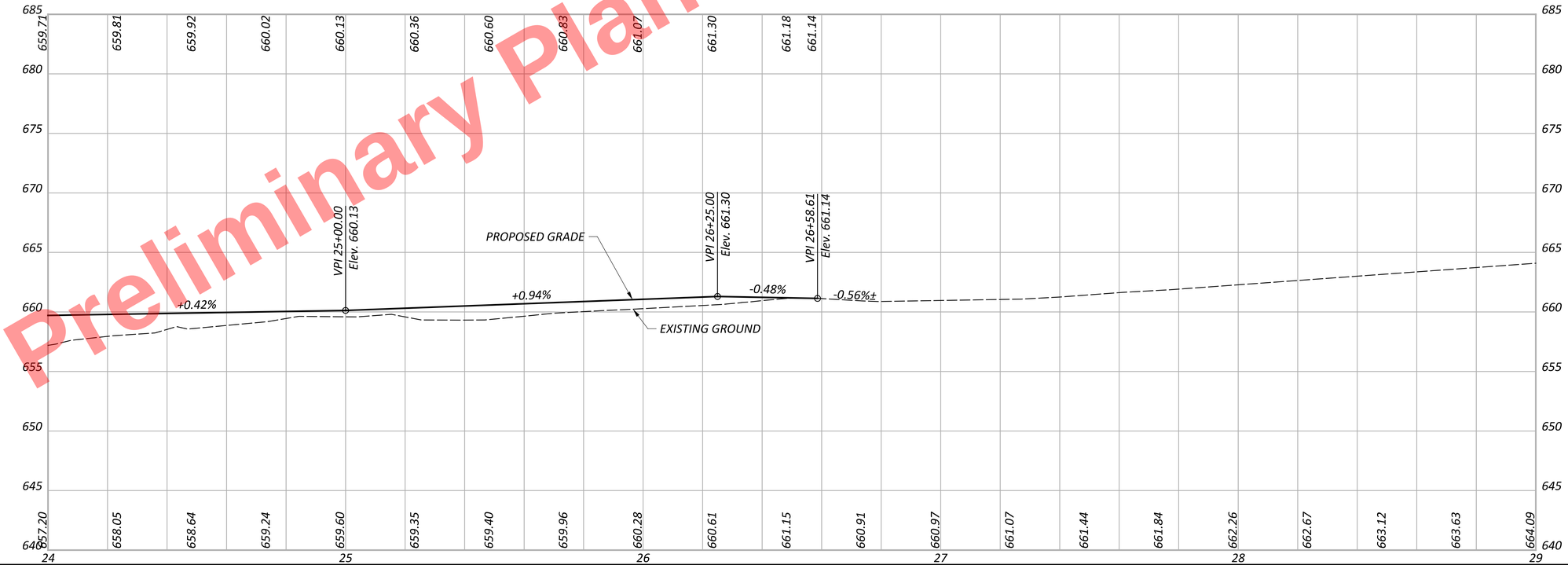


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PLAN AND PROFILE - MUP EAST
## STA. 24+00.00 TO END

CUY-77-11.43 - PART 1

MODEL: CLP_6 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 2:58:03 PM USER: asingleton
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DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | MTD |
| REVIEWER | KKP 04/04/22 |
| PROJECT ID | 105743 |
| SHEET | P.317 |
| TOTAL | P.1135 |

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |




| END AREA | |
|---|---|
| CUT | FILL |
| 0 | 0 |
| 0 | 0 |
| SHEET TOTALS | |

| VOLUME | |
|---|---|
| CUT | FILL |
| 0 | 0 |
| 0 | 0 |
| | |

| SHEET TOTAL | | |
|---|---|---|

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 50+50.00

DESIGN AGENCY

DESIGNER

REVIEWER

PROJECT ID
105743

SHEET P.318 TOTAL P.1135

MODEL: CLP_I077_South - 50+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:07:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |
| SHEET TOTAL | |




| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| SHEET TOTALS | | | |

CROSS SECTIONS - I.R. 77
STA. 51+50.00

DESIGN AGENCY

DESIGNER

REVIEWER

PROJECT ID
105743

SHEET P.319 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077_South - 51+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:07:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |
| | |

| END AREA | |
|---|---|
| CUT | FILL |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| SHEET TOTALS | |

| VOLUME | |
|---|---|
| CUT | FILL |
| 0 | 0 |
| 0 | 0 |




SHEET TOTAL

CROSS SECTIONS - I.R. 77
STA. 52+50.00

DESIGN AGENCY

DESIGNER

REVIEWER

PROJECT ID
105743

SHEET P.320 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077_South - 52+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:07:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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NOTE:

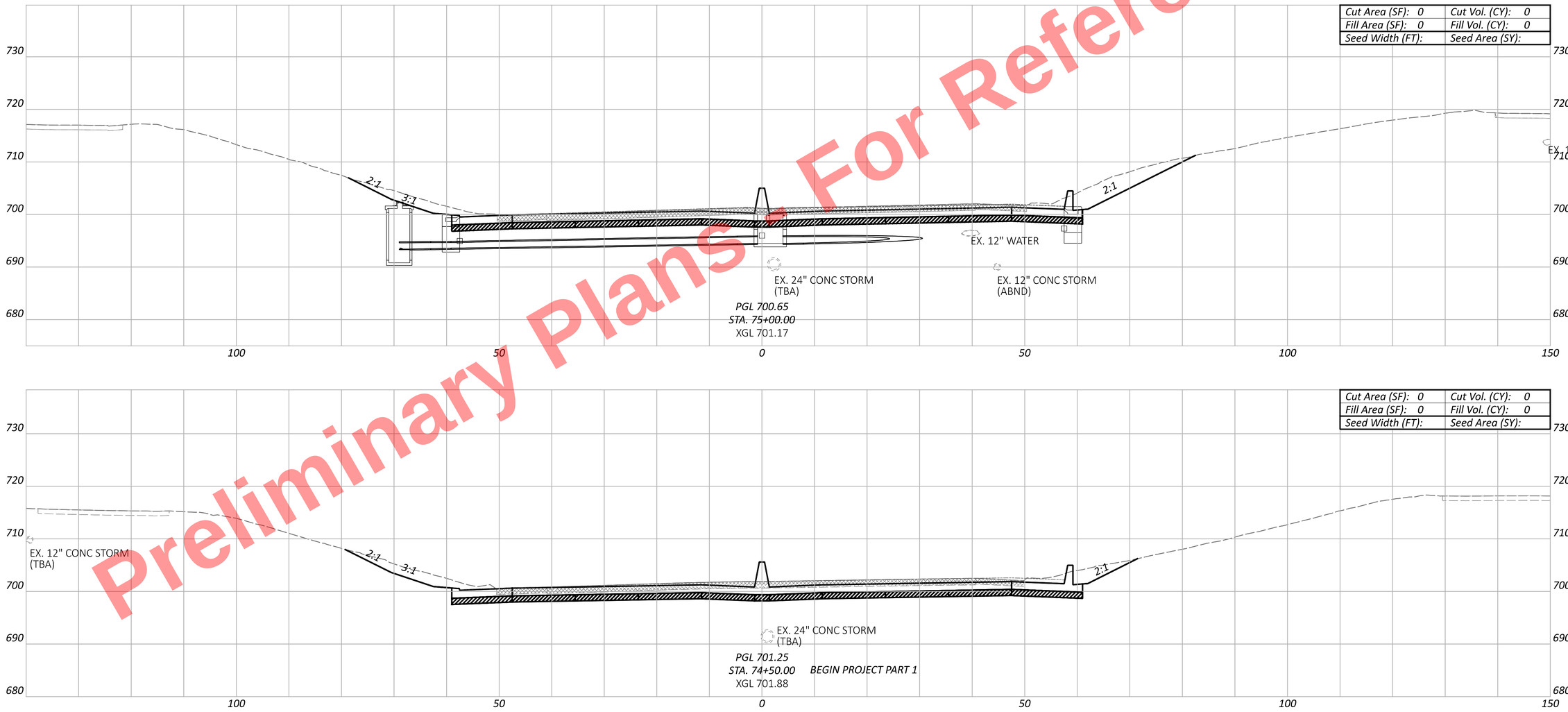
1. PAVEMENT SECTION REPRESENTS TOP OF PAVEMENT, TOP OF SUBGRADE, AND BOTTOM OF CEMENT STABILIZATION
2. SEE TYPICAL SECTION WHERE PGL APPLIES
3. XGL ELEVATION IS BASED ON THE GROUNDLINE AT THE CENTERLINE
4. UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED
5. DRAINAGE REMOVALS ARE NOTED ON THE DRAINAGE PLAN AND PROFILE SHEETS
6. LIGHTING CIRCUITS NOT SHOWN

LEGEND

INTERIM CONDITION SURFACE

ITEM 202 - PAVEMENT REMOVED

ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 75+00.00 TO BEGIN WORK

DESIGN AGENCY

DESIGNER AS

REVIEWER KKP 04/04/22

PROJECT ID 105743

SHEET P.321 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

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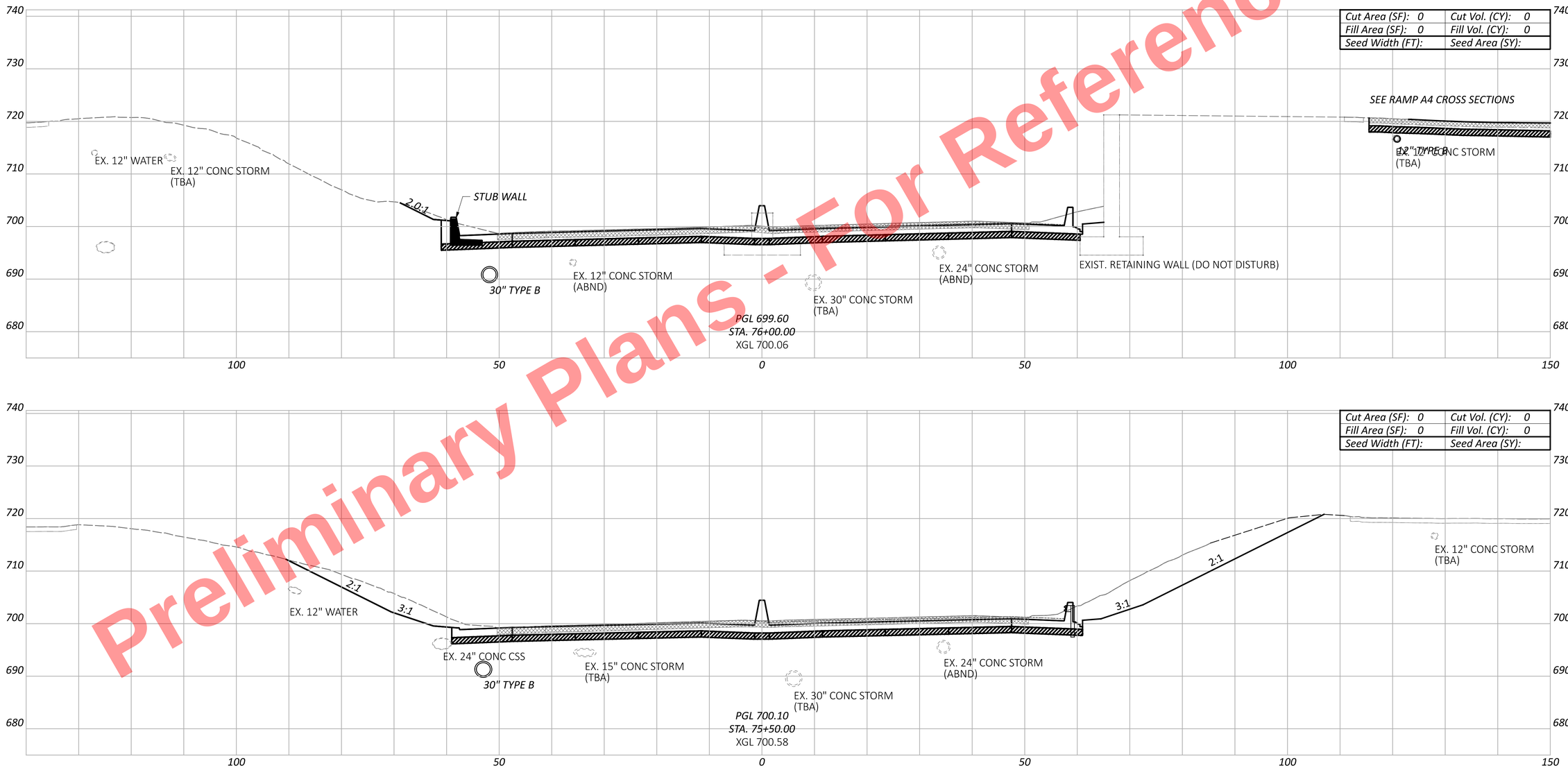
Preliminary Plans - For Reference Only

*LEGEND*

*INTERIM CONDITION SURFACE*




CROSS SECTIONS - I.R. 77
STA. 75+50.00 TO STA. 76+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.322 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 75+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:08:01 AM USER: kperkins
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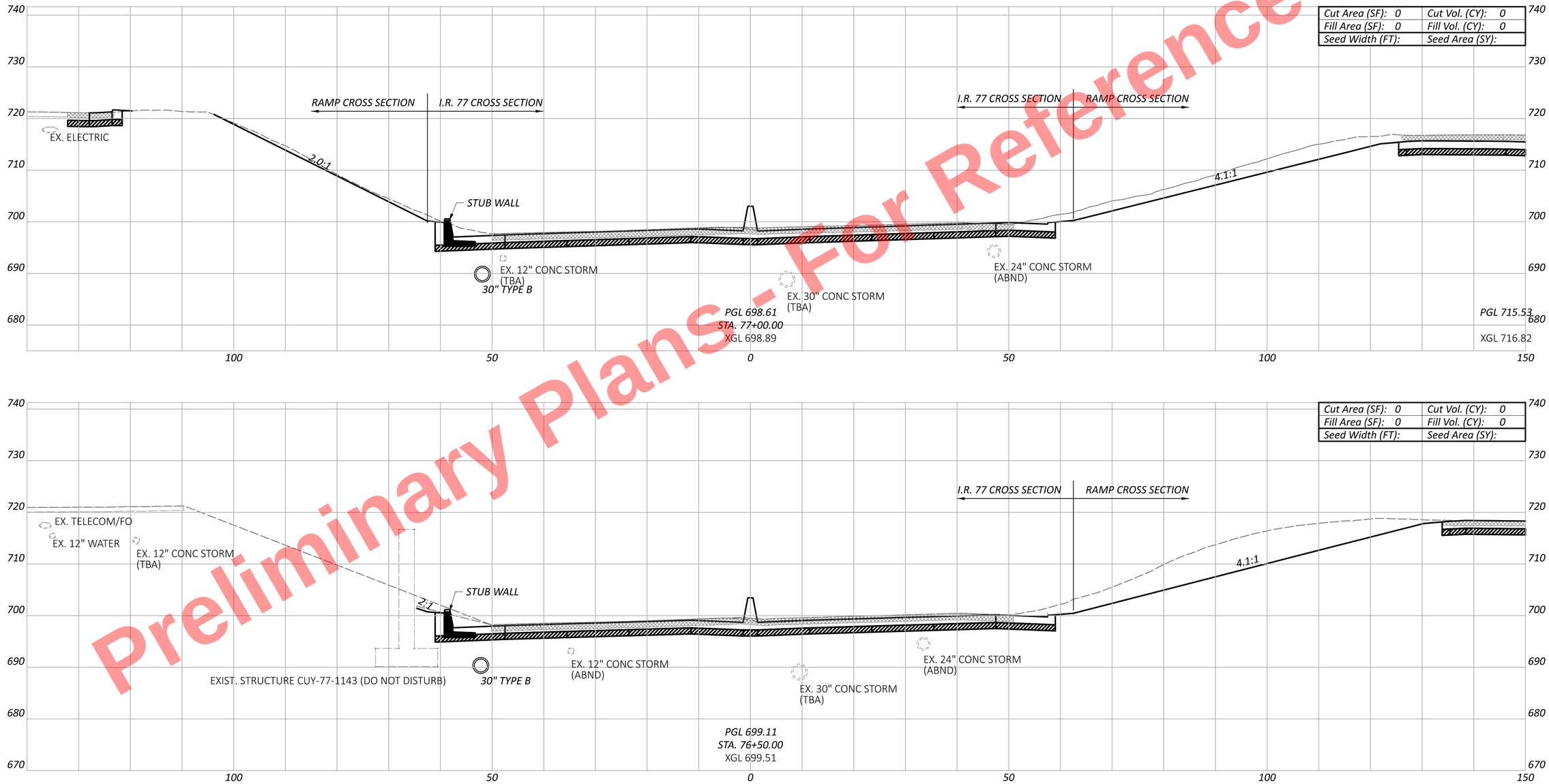
Preliminary Plans - For Reference Only

*LEGEND*

*INTERIM CONDITION SURFACE*




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 76+50.00 TO STA. 77+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.323 | TOTAL P.1135

MODEL: CLP_I077 - 76+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:08:09 AM USER: kperkins
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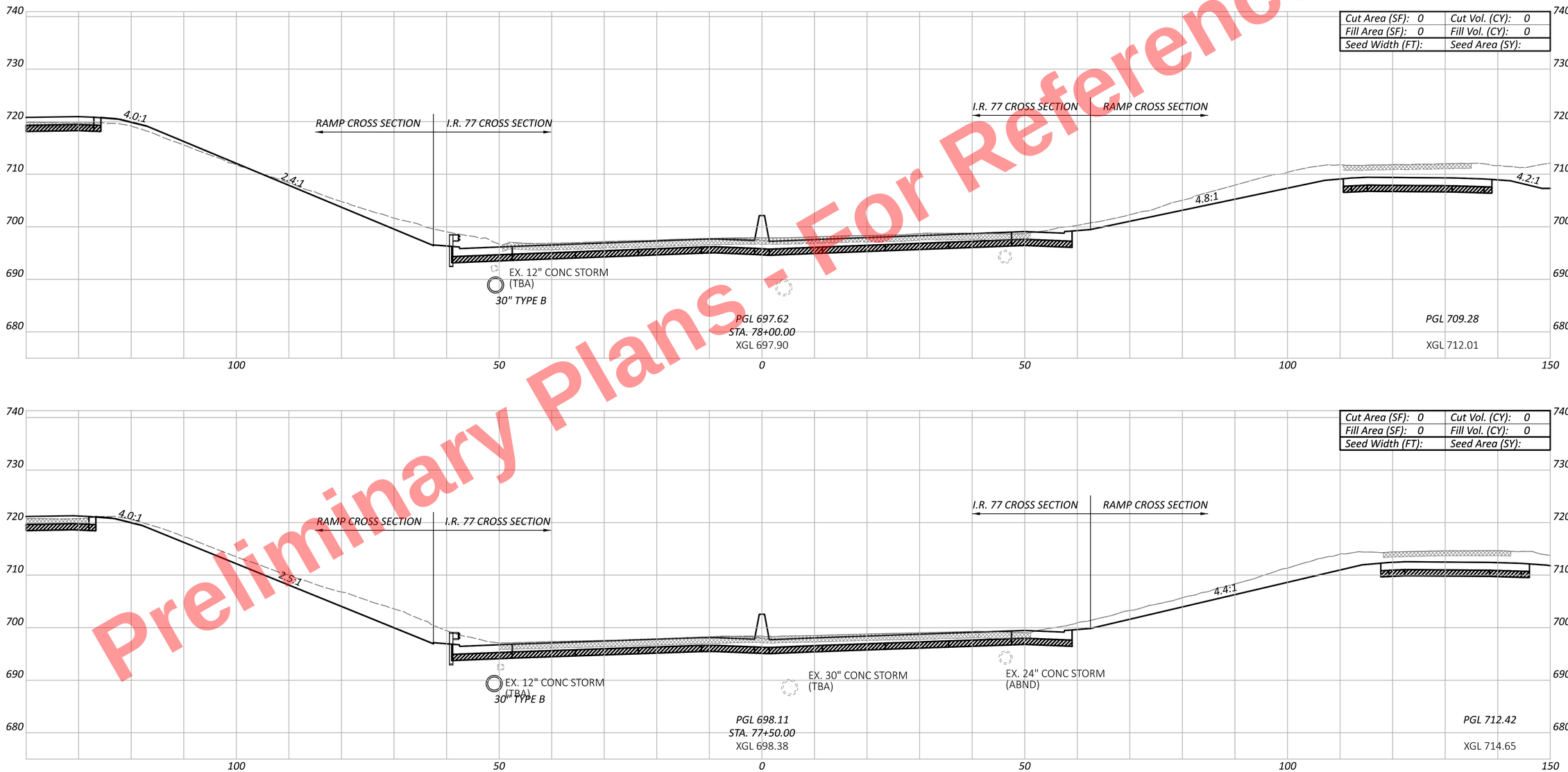
Preliminary Plans - For Reference Only

LEGEND

INTERIM CONDITION SURFACE




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 77+50.00 TO STA. 78+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

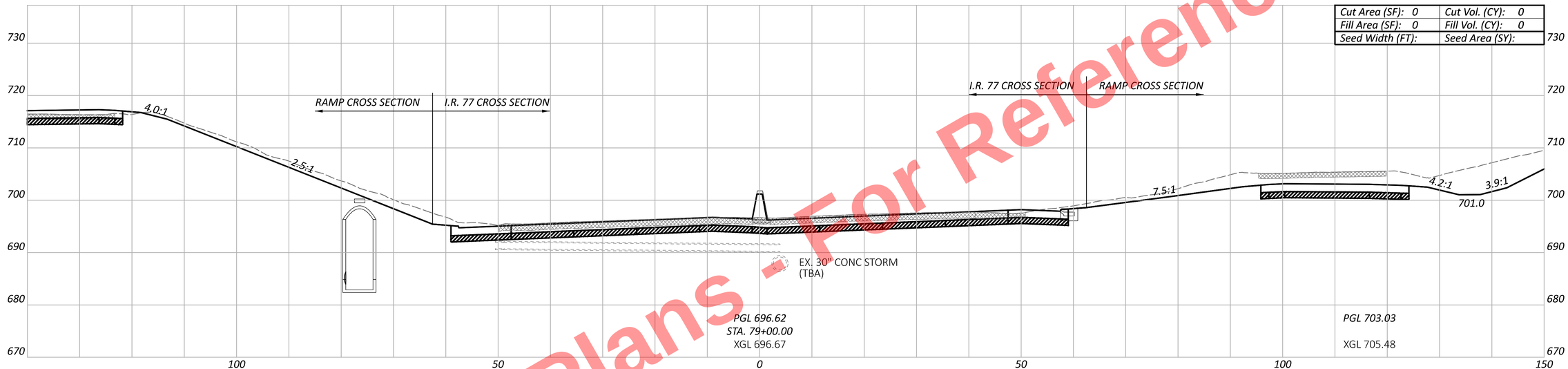
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

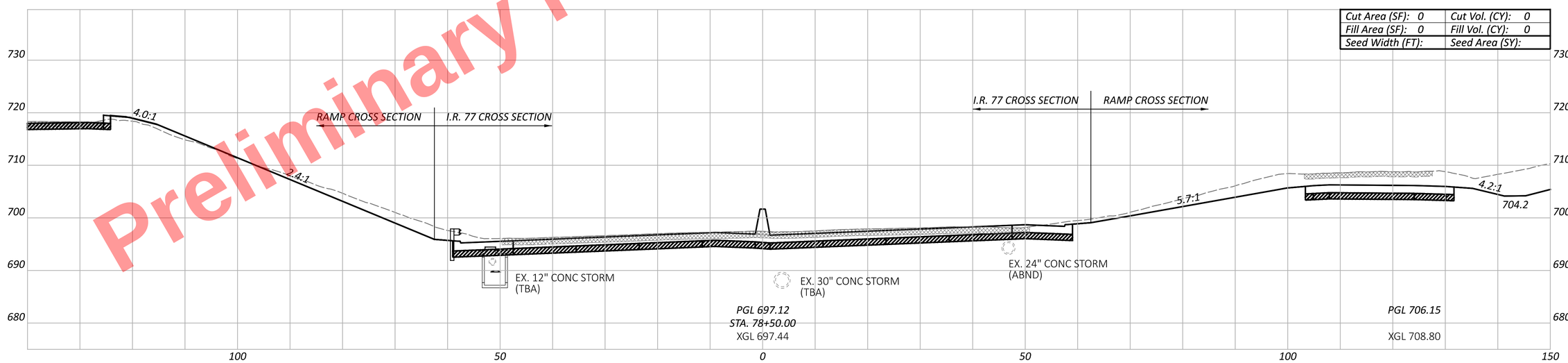
SHEET P.324 TOTAL P.1135

Preliminary Plans - For Reference Only

LEGEND

INTERIM CONDITION SURFACE




CROSS SECTIONS - I.R. 77
STA. 78+50.00 TO STA. 79+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.325 TOTAL P.1135

CUY-77-11.43 - PART 1

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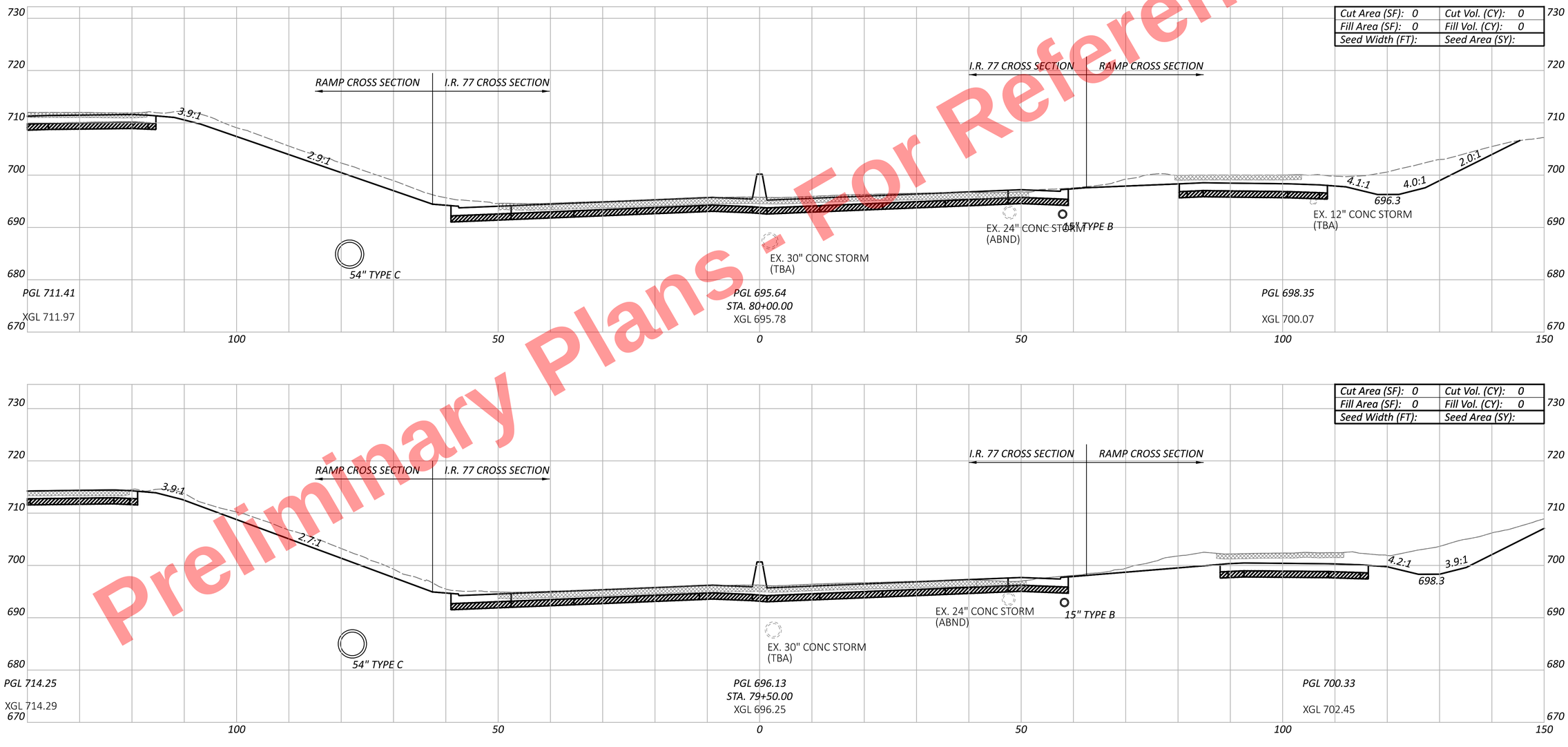
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 79+50.00 TO STA. 80+00.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

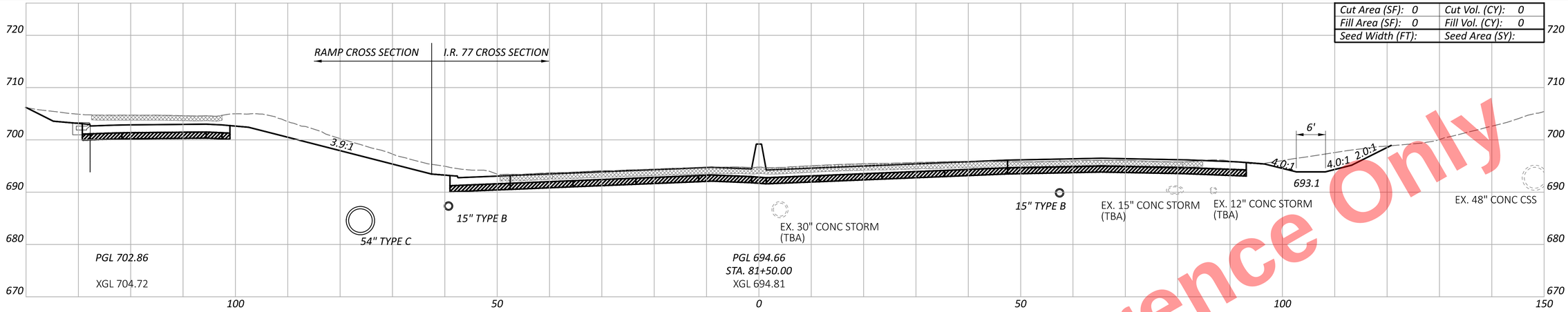
DESIGNER
EAP

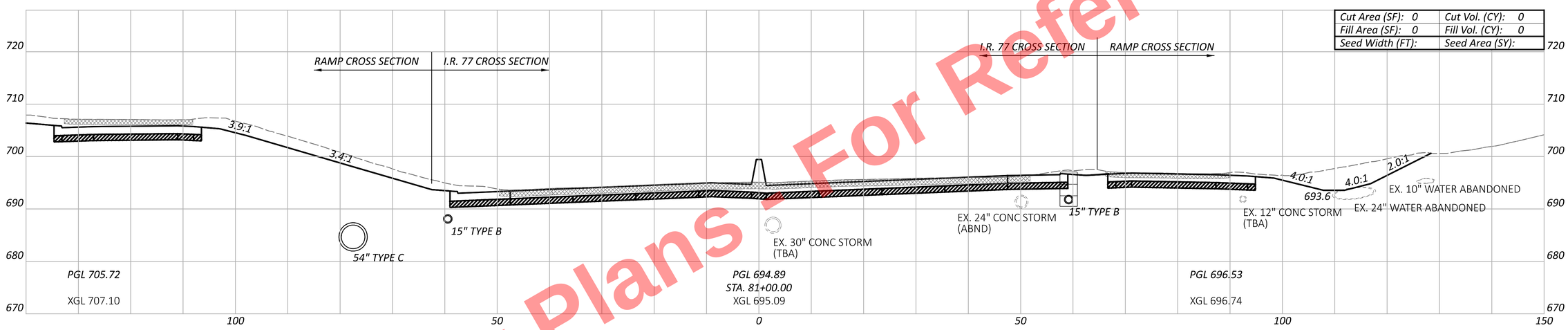
REVIEWER
MTR 04/01/22

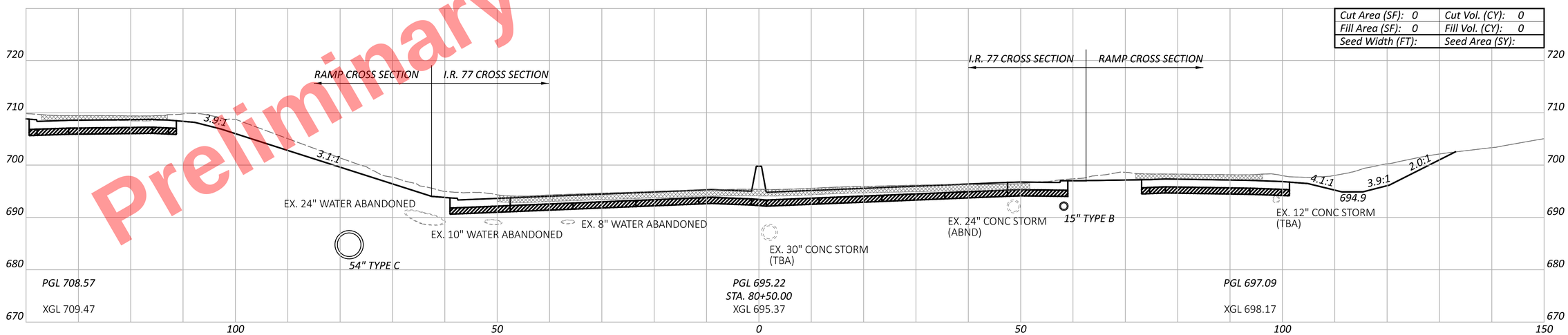
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.326 | P.1135 |




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 80+50.0 TO STA. 81+50.00

CUY-77-11.43 - PART 1

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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

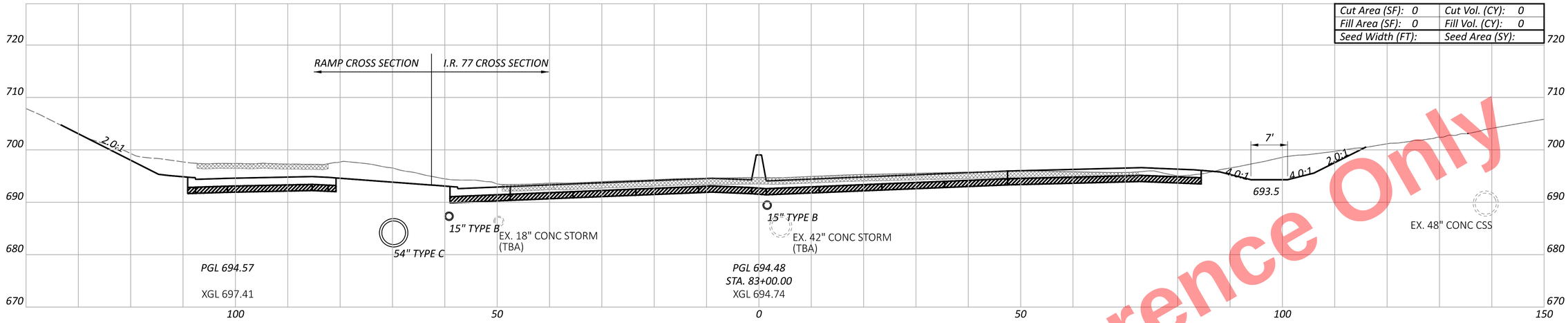
DESIGN AGENCY
HNTB

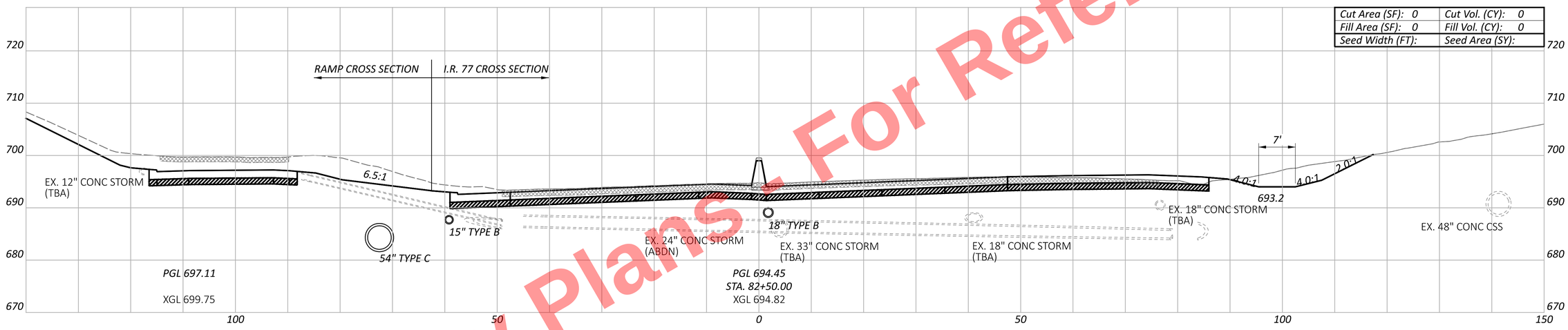
DESIGNER
EAP

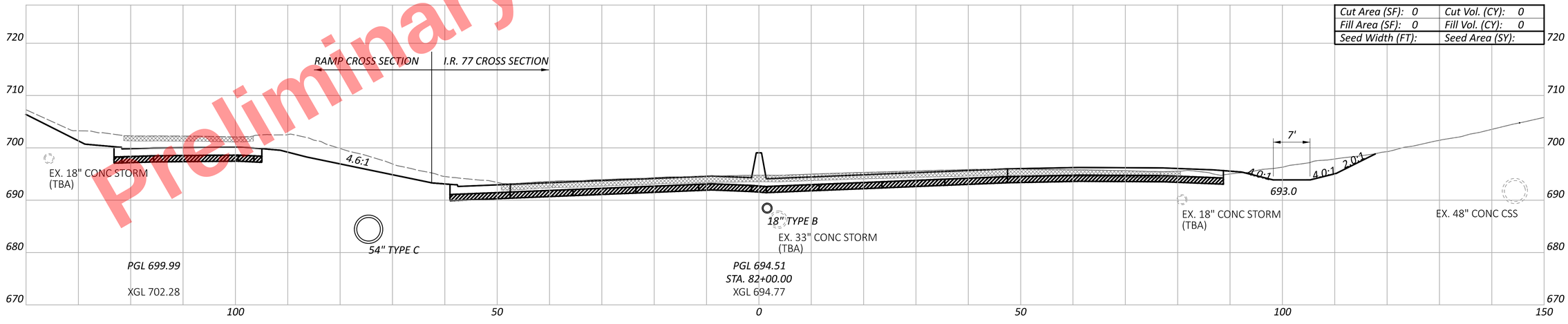
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.327 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 82+00.00 TO STA. 83+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

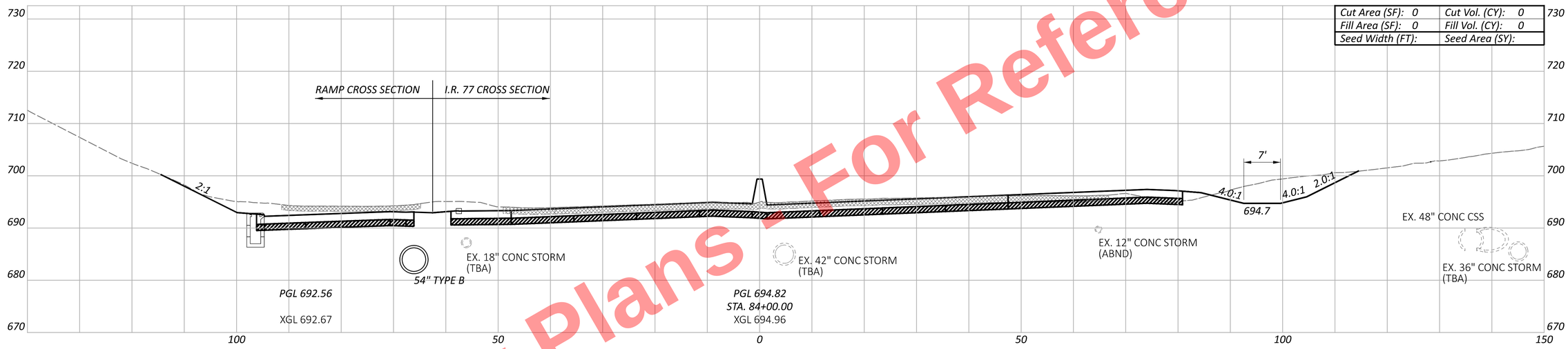
REVIEWER
MTR 04/01/22

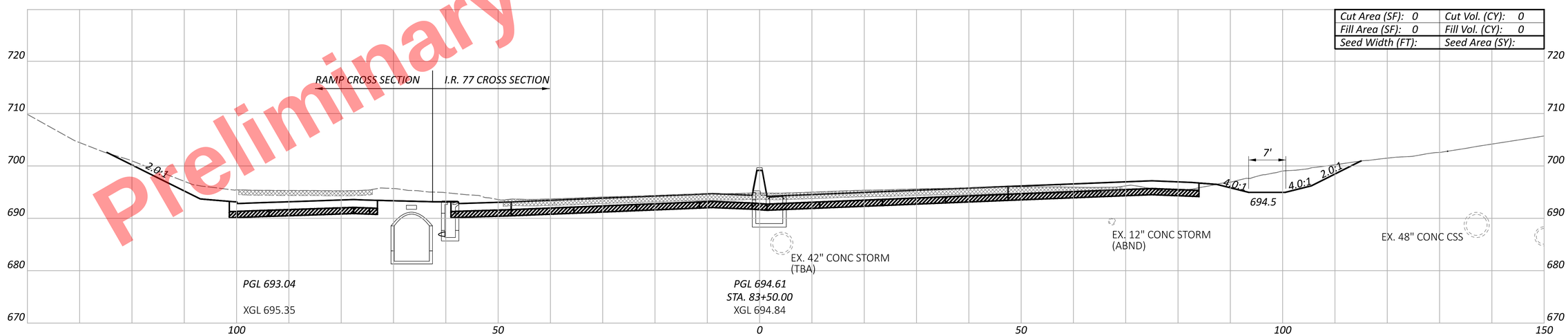
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.328
TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 83+50.00 TO STA. 84+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.329 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 83+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:08:55 AM USER: kperkins
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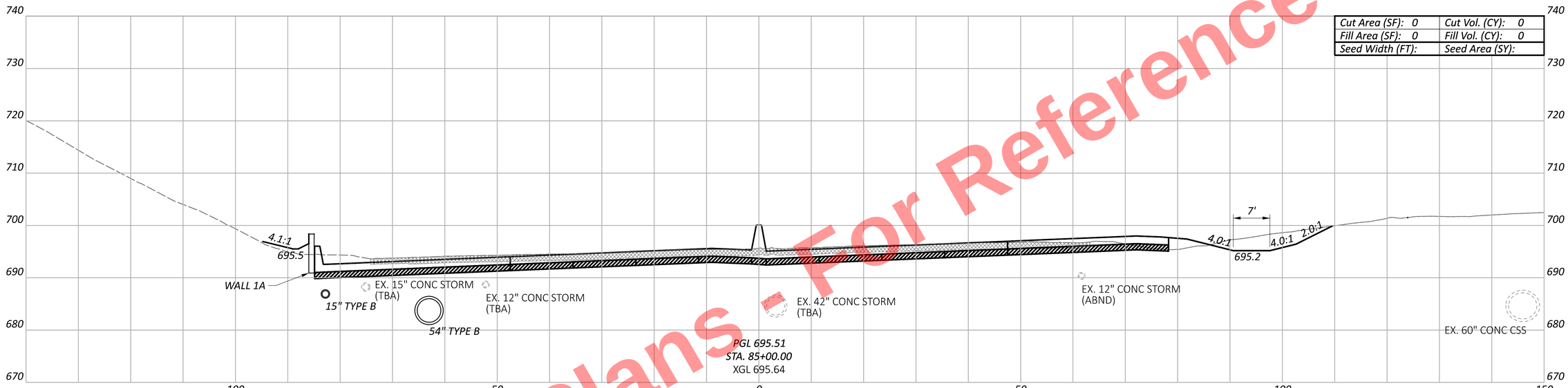
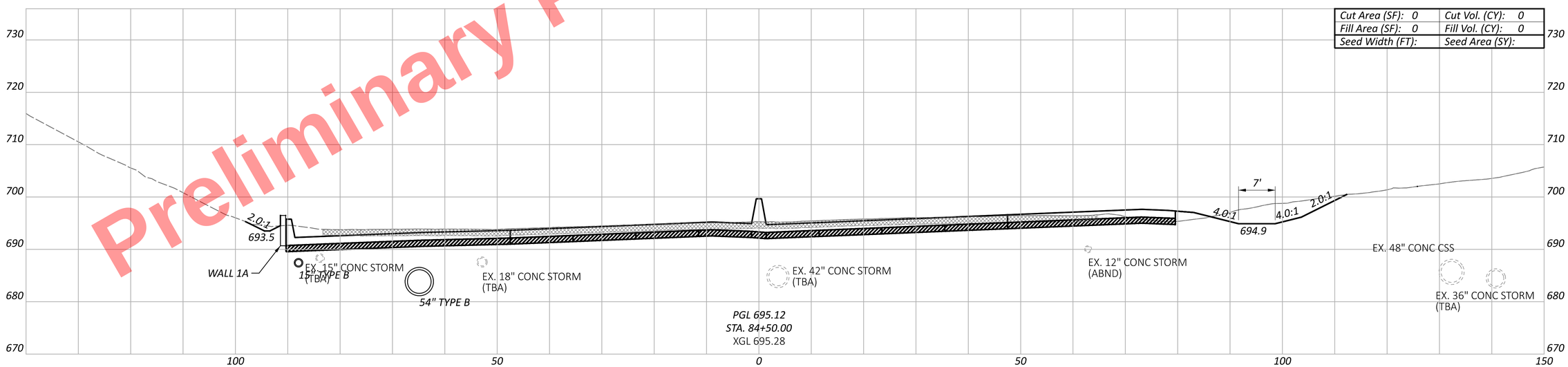
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
## STA. 84+50.00 TO STA. 85+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

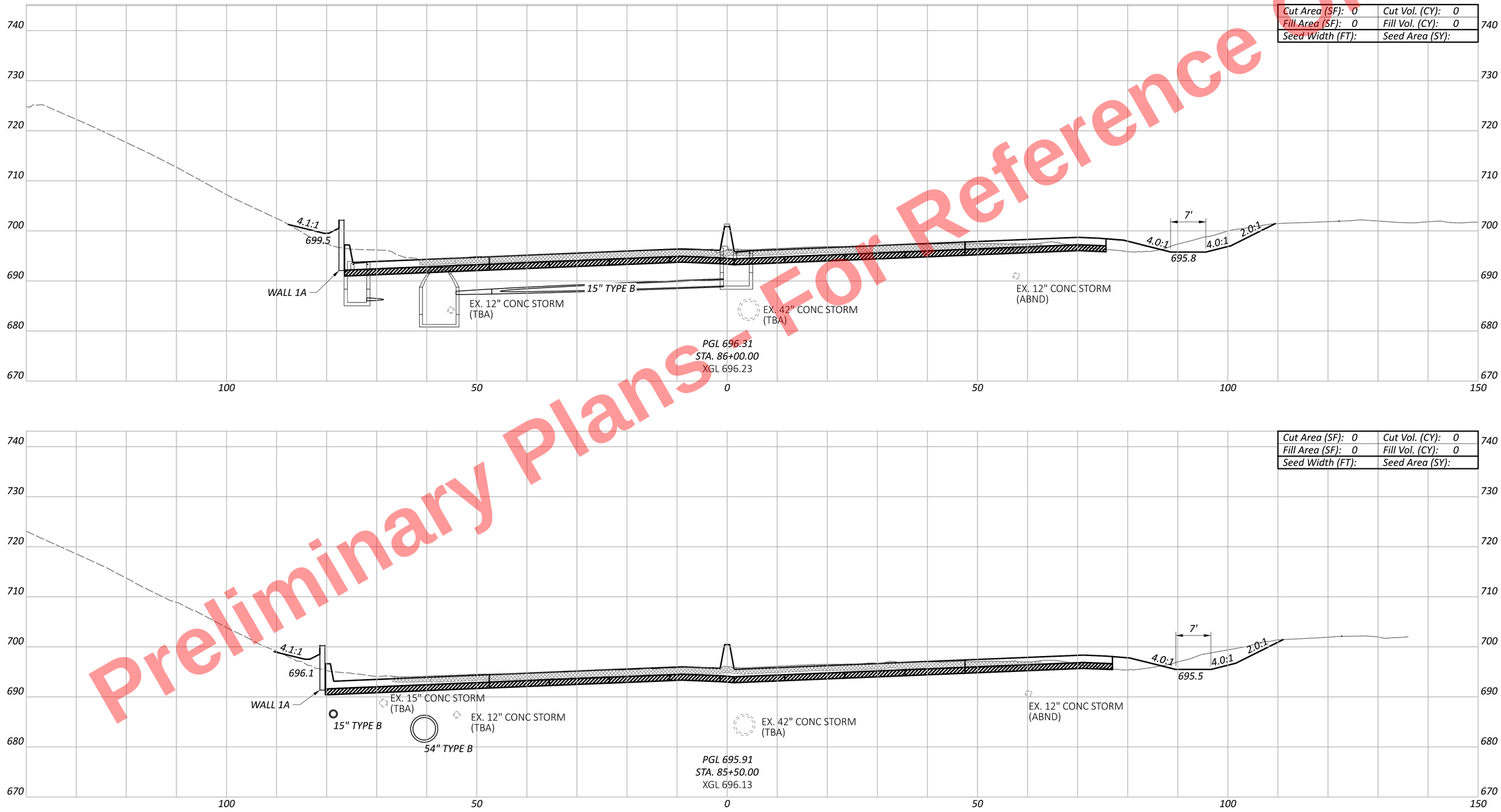
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.330 TOTAL P.1135

Preliminary Plans - Not For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 85+50.00 TO STA. 86+00.00

DESIGN AGENCY
HNTB

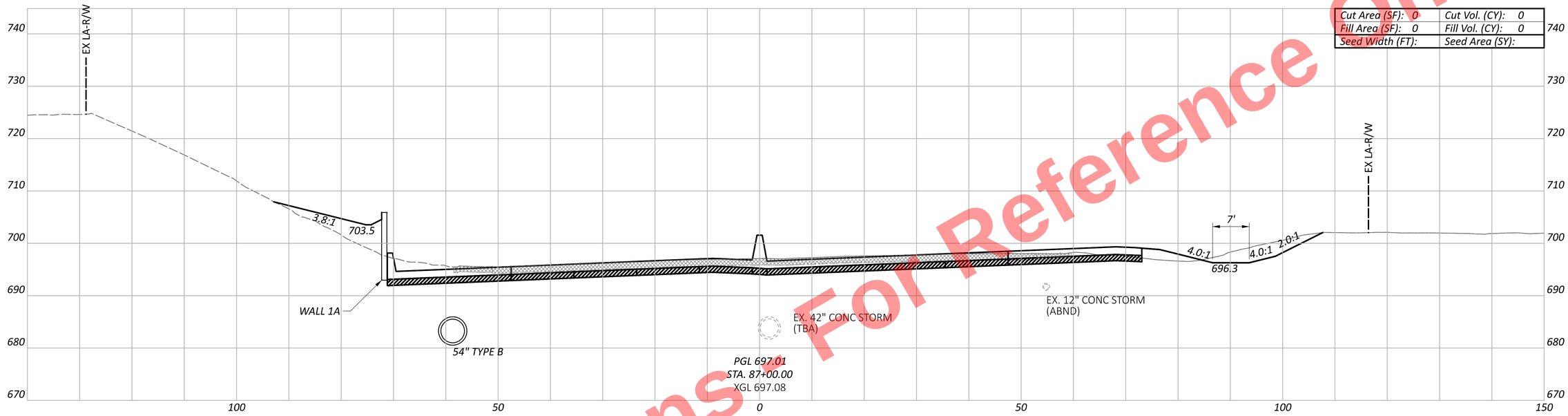
DESIGNER
EAP

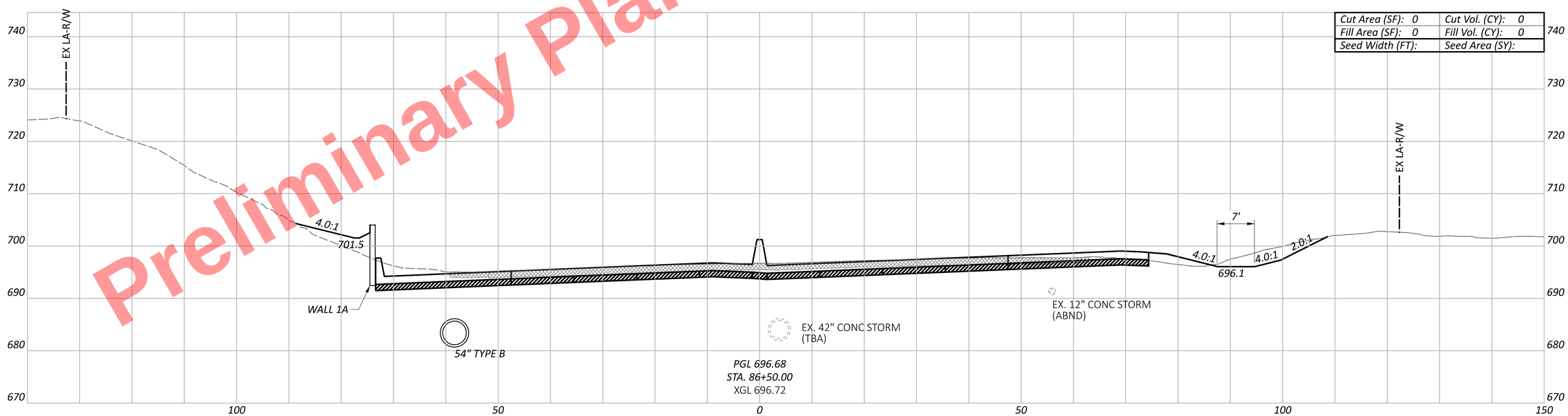
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.331 TOTAL P.1135




Preliminary Plans
Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 86+50.00 TO STA. 87+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.332 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

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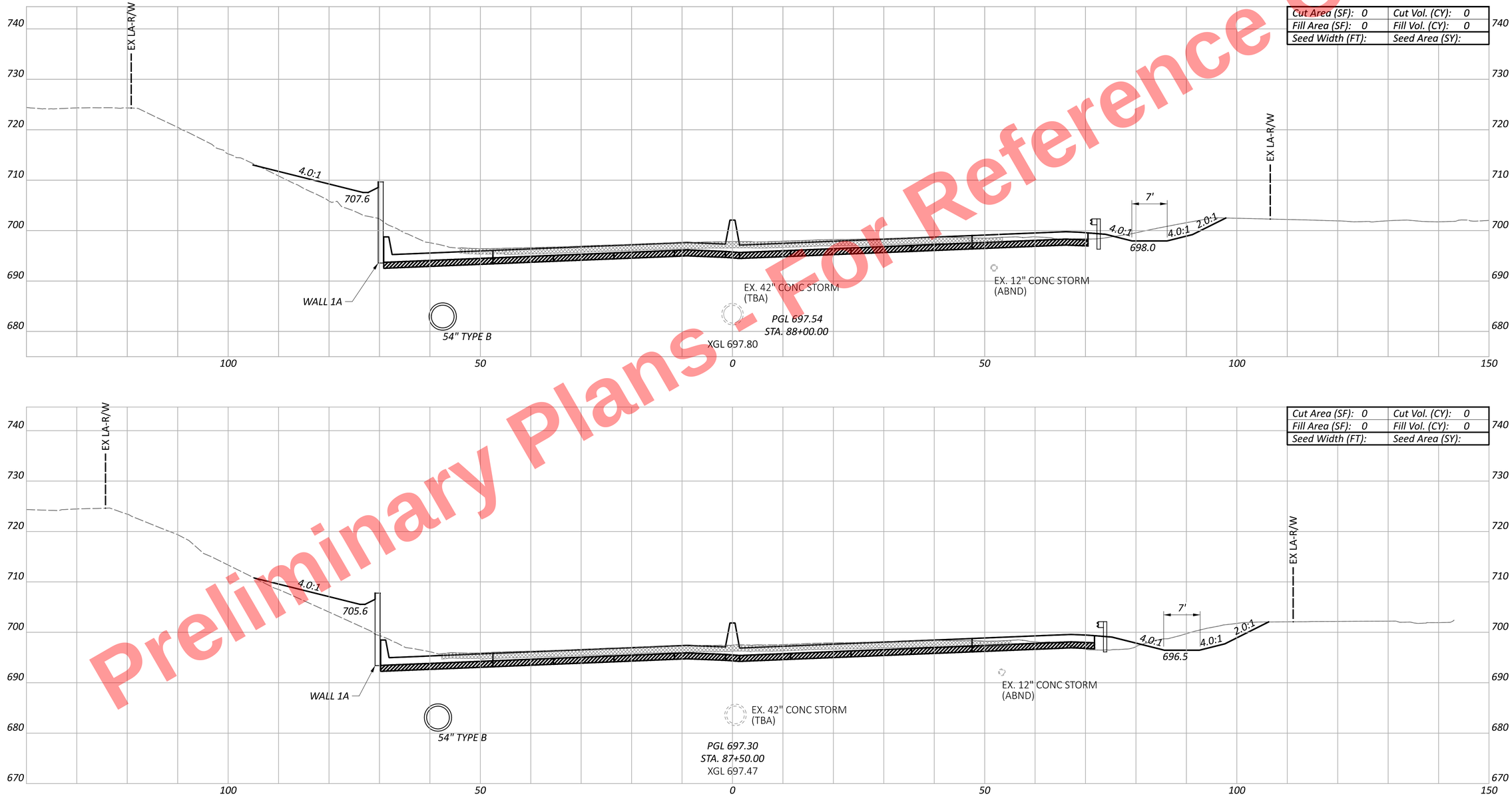
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
|---|---|
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
|---|---|
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 87+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:09:20 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 87+50.00 TO STA. 88+00.00

DESIGN AGENCY
HNTB

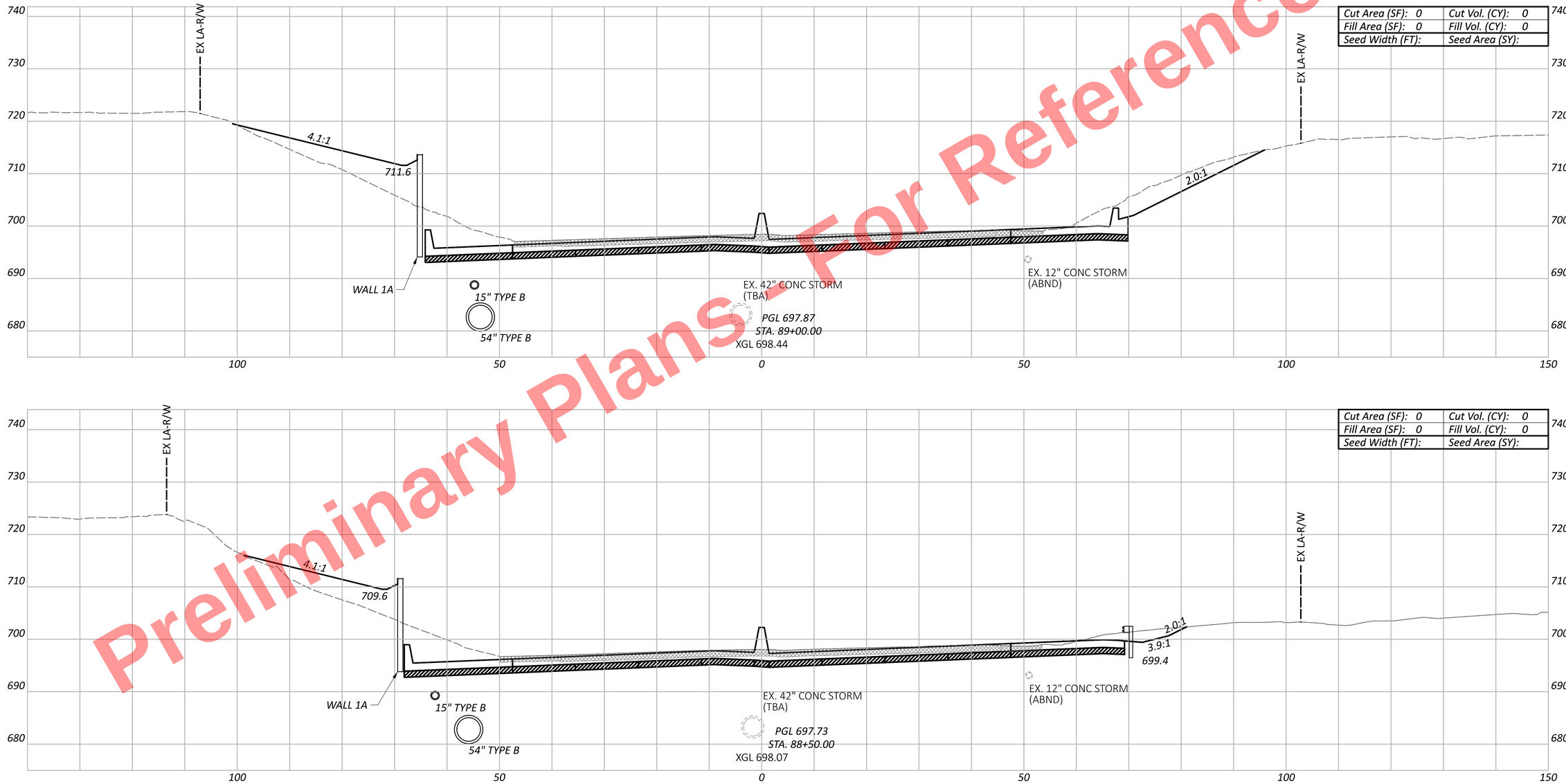
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.333 | P.1135 |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 88+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:09:26 AM USER: kperkins
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# CROSS SECTIONS - I.R. 77
## STA. 88+50.00 TO STA. 89+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

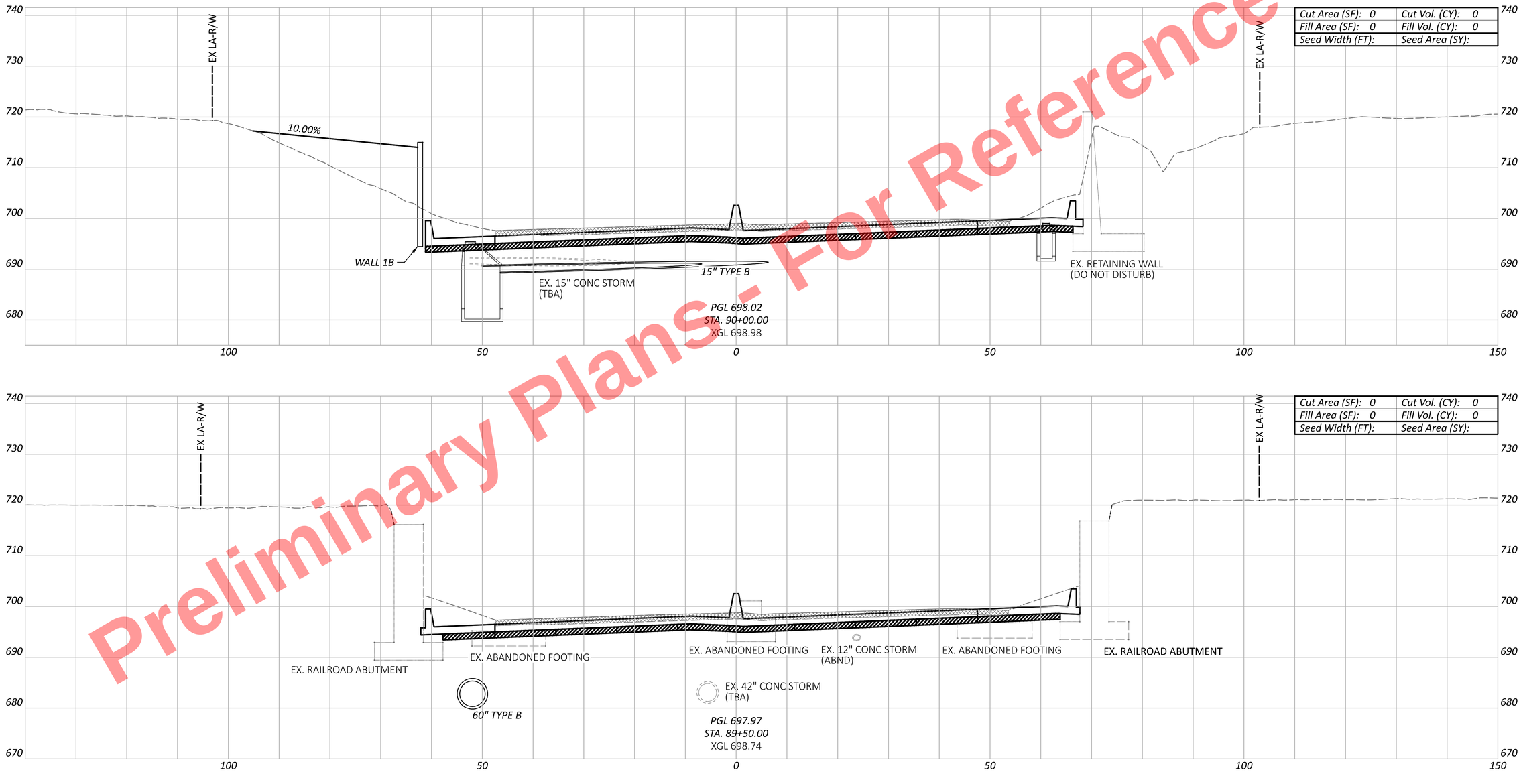
DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.334 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 89+50.00 TO STA. 90+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.335 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 89+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:09:32 AM USER: kperkins
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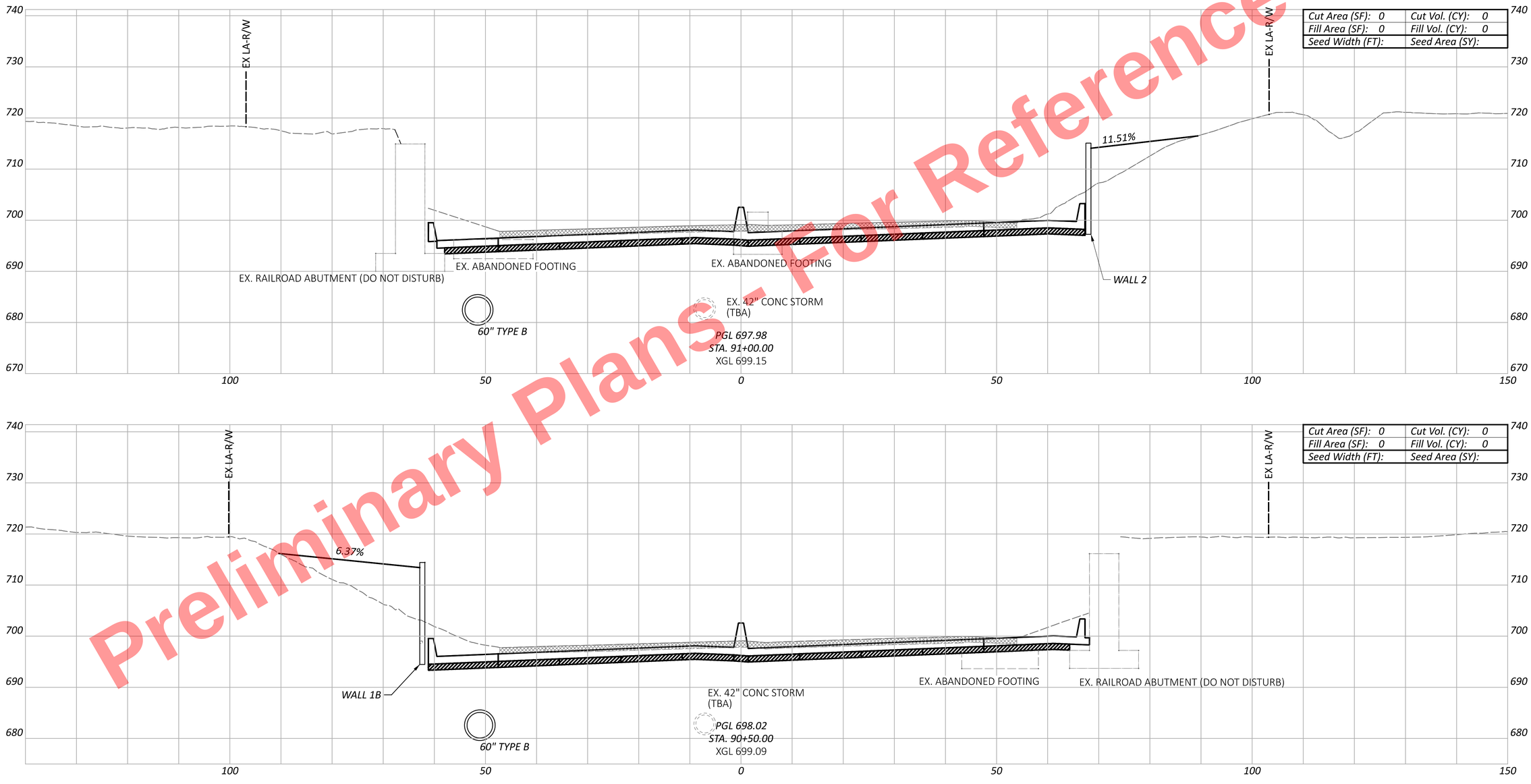


Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 90+50.00 TO STA. 91+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.336 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 90+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:09:39 AM USER: kperkins
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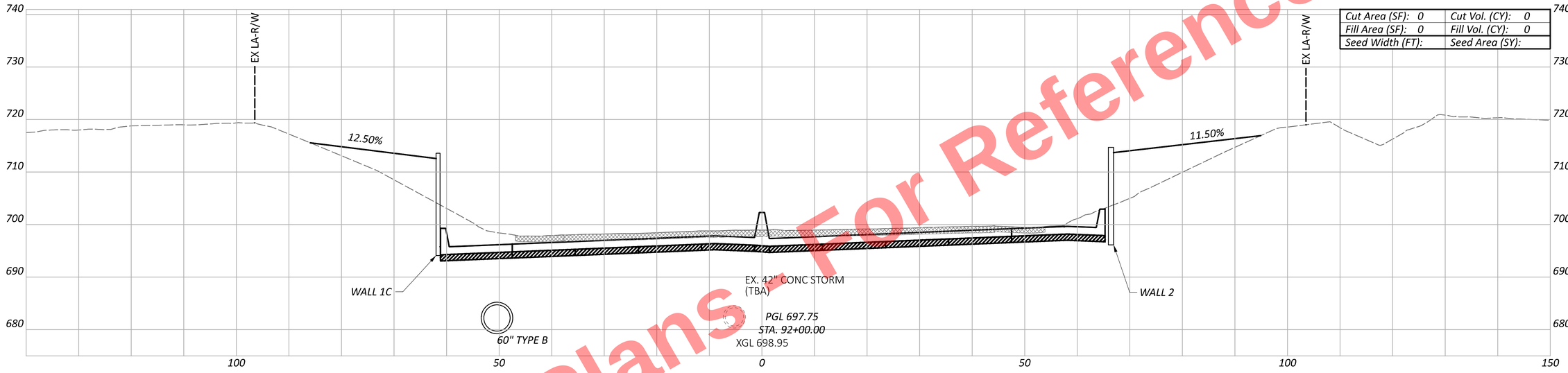


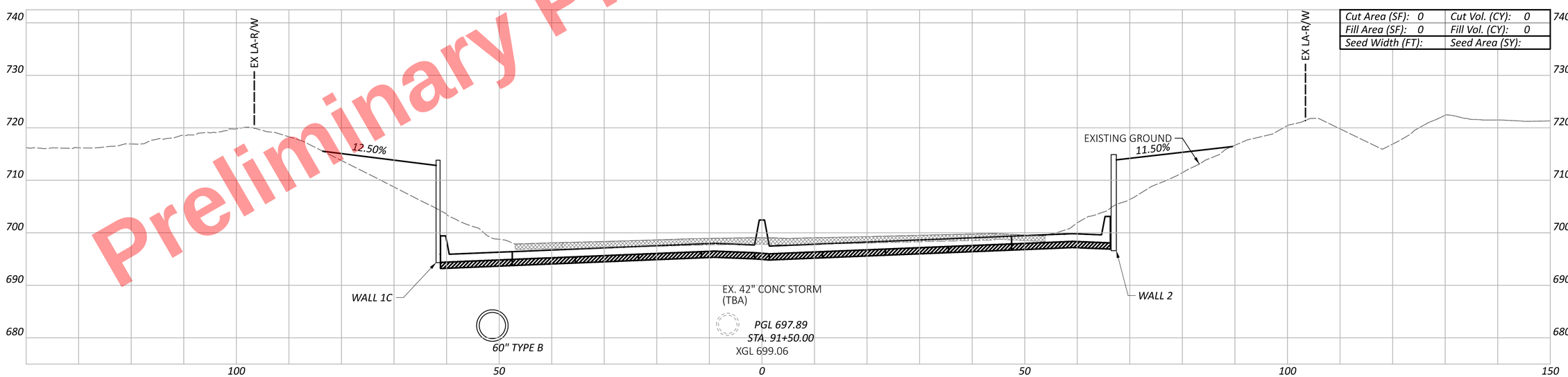


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 91+50.00 TO STA. 92+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

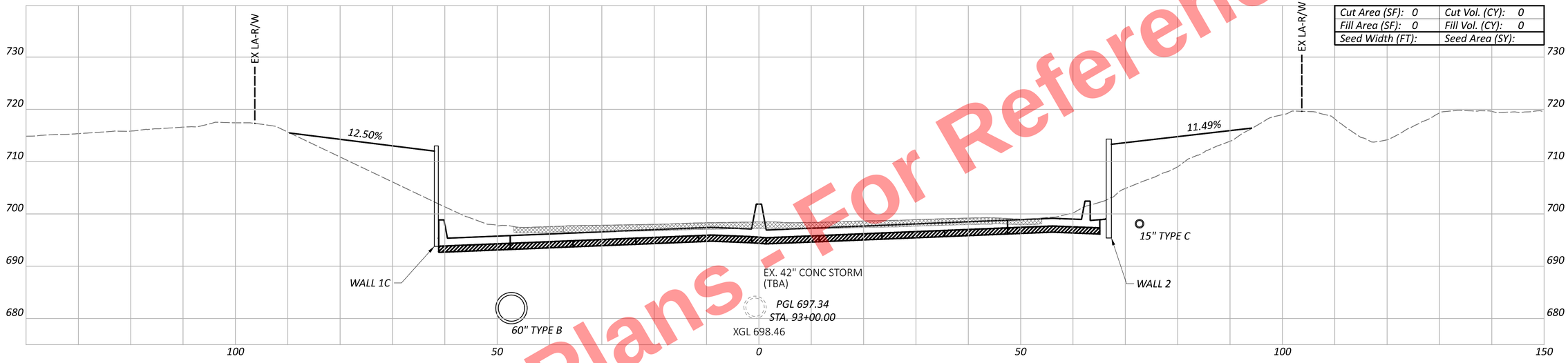
REVIEWER
MTR 04/01/22

PROJECT ID
105743

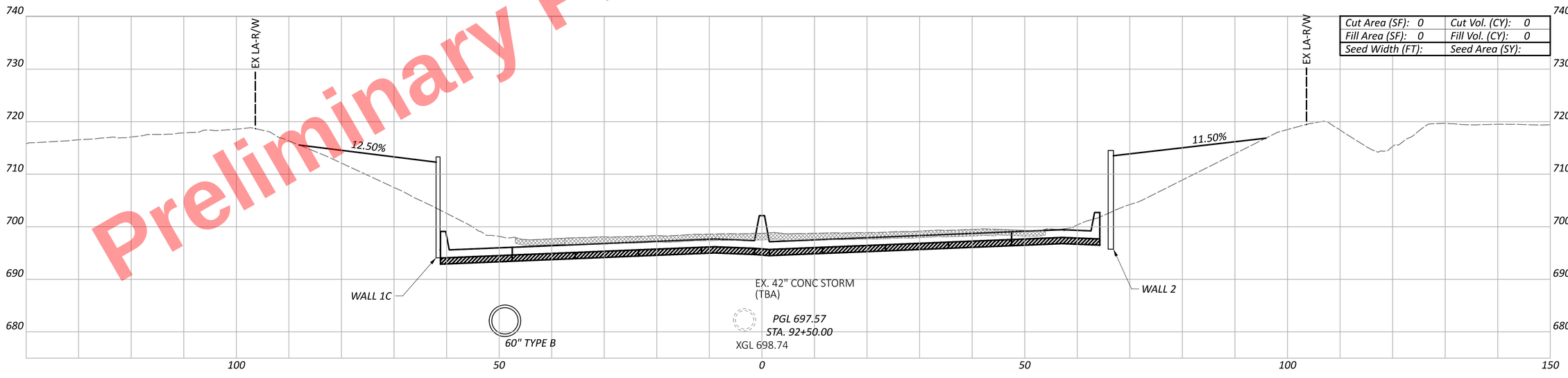
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.337 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 92+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:07 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

# CROSS SECTIONS - I.R. 77
STA. 92+50.00 TO STA. 93+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

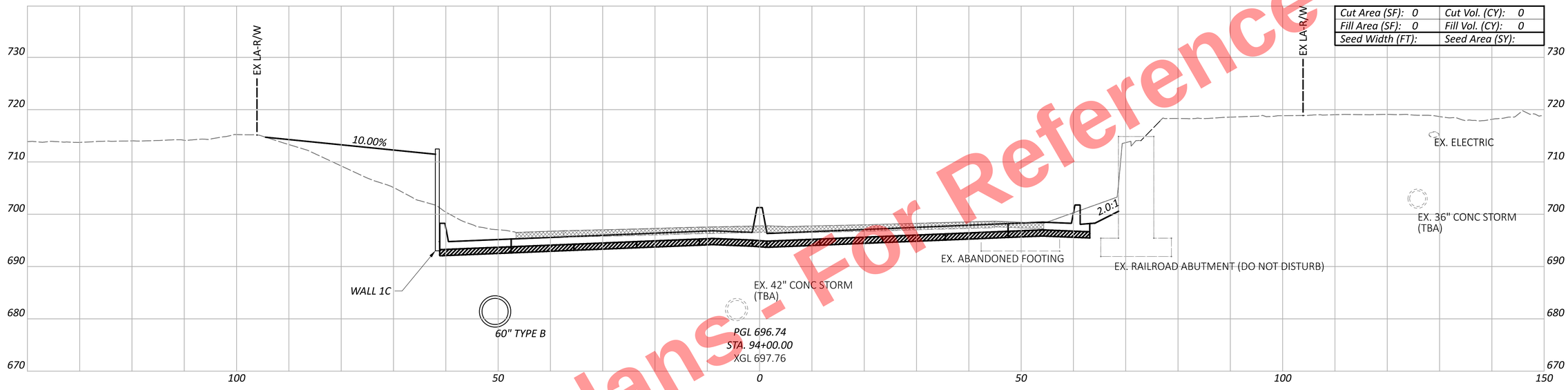
REVIEWER
MTR 04/01/22

PROJECT ID
105743

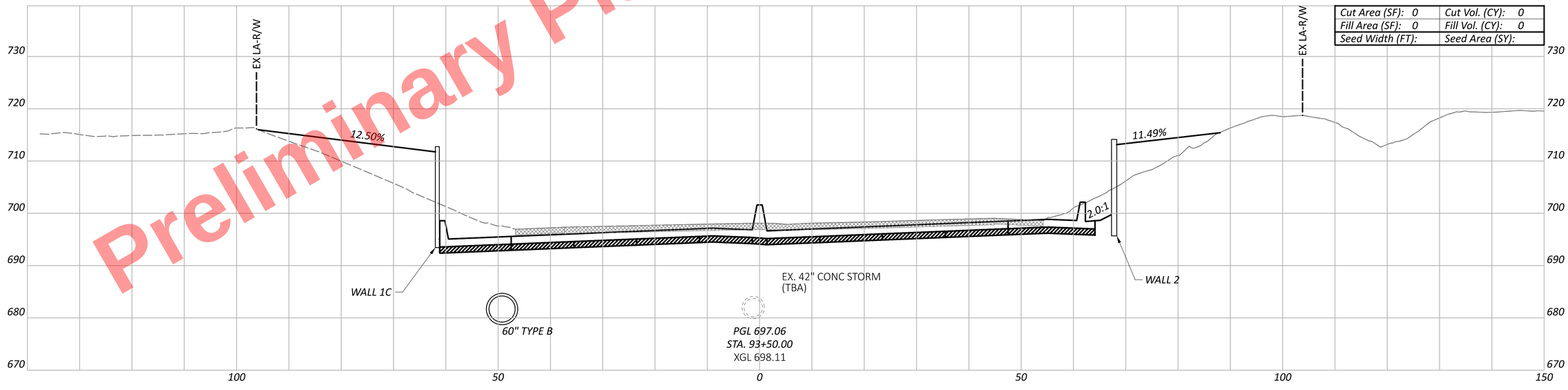
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.338 | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 93+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:14 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 93+50.00 TO STA. 94+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

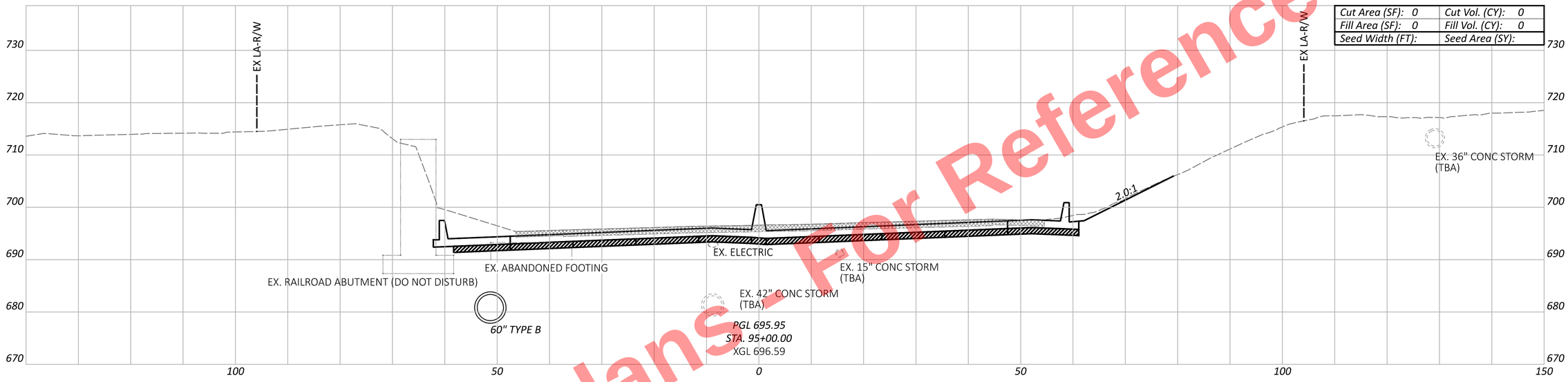
REVIEWER
MTR 04/01/22

PROJECT ID
105743

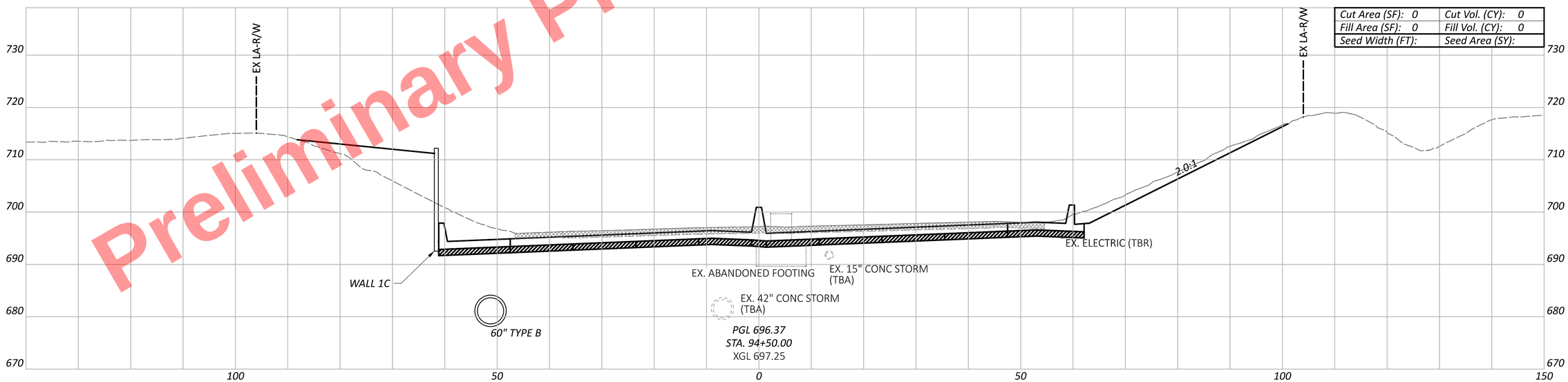
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.339 | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 94+50.00 TO STA. 95+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

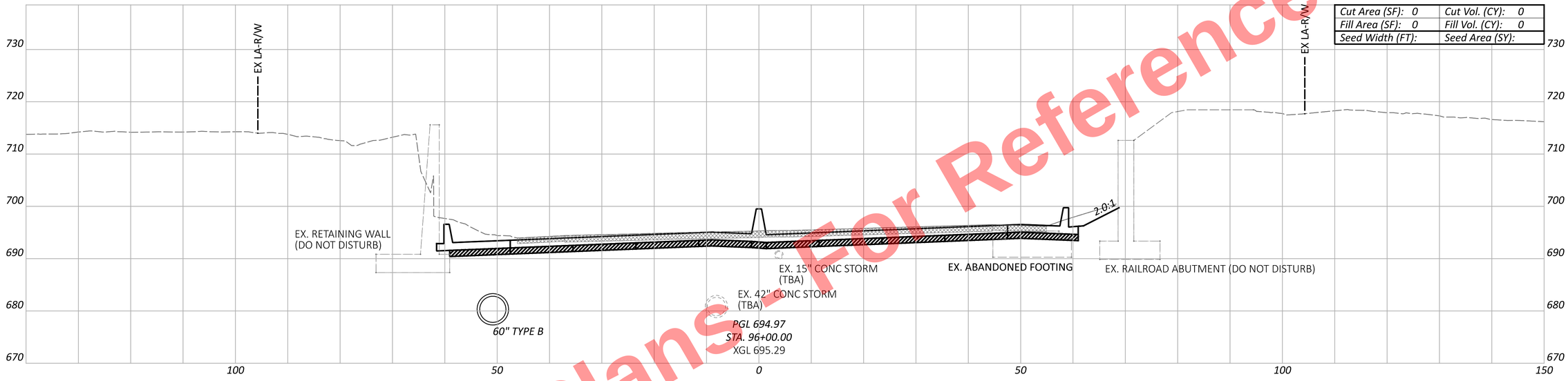
REVIEWER
MTR 04/01/22

PROJECT ID
105743

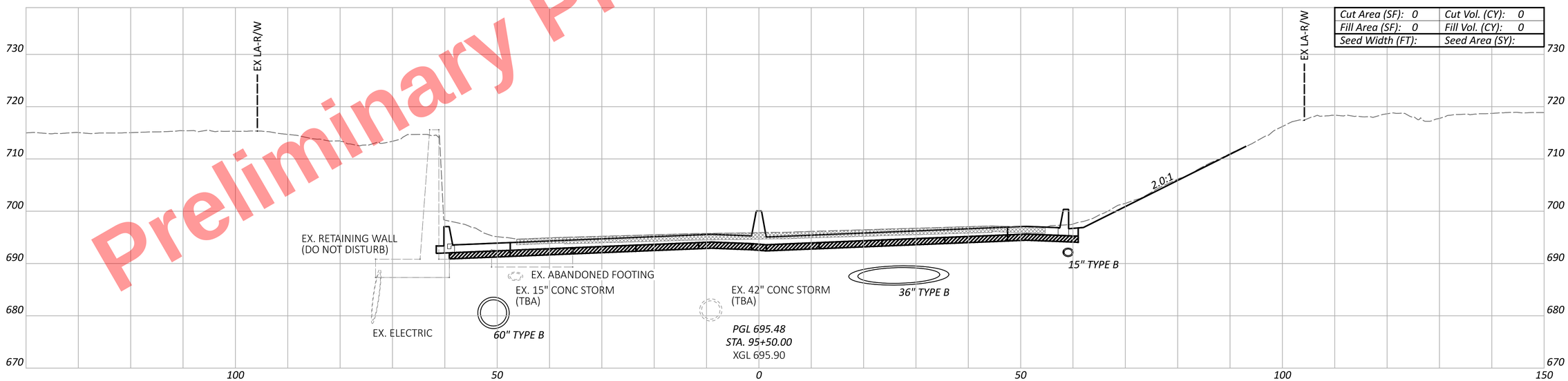
SHEET P.340 | TOTAL P.1135

MODEL: CLP_I077 - 94+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

For Reference Only
Preliminary Plans - Not for Construction




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 95+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:26 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

# CROSS SECTIONS - I.R. 77
## STA. 95+50.00 TO STA. 96+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

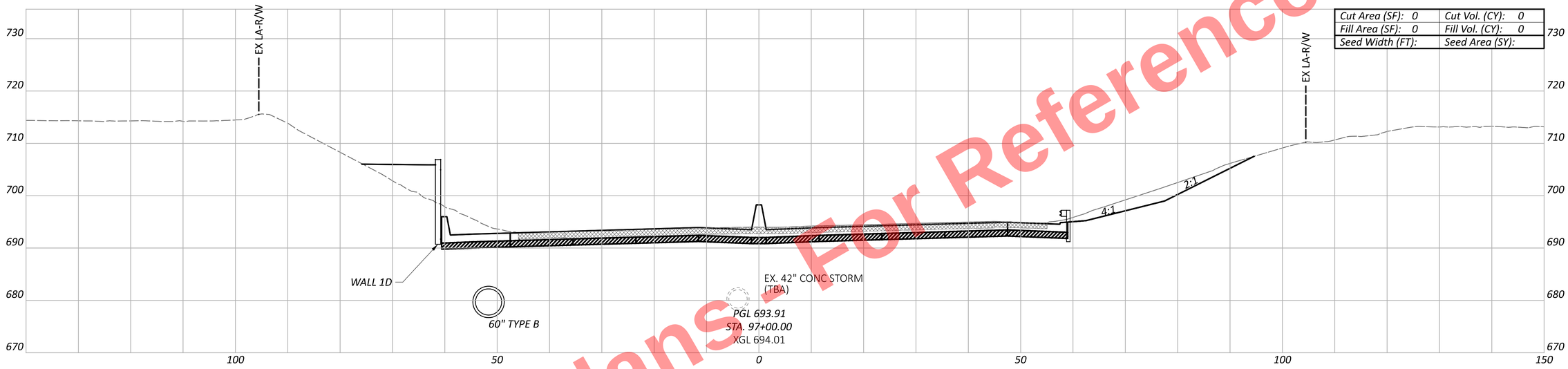
REVIEWER
MTR 04/01/22

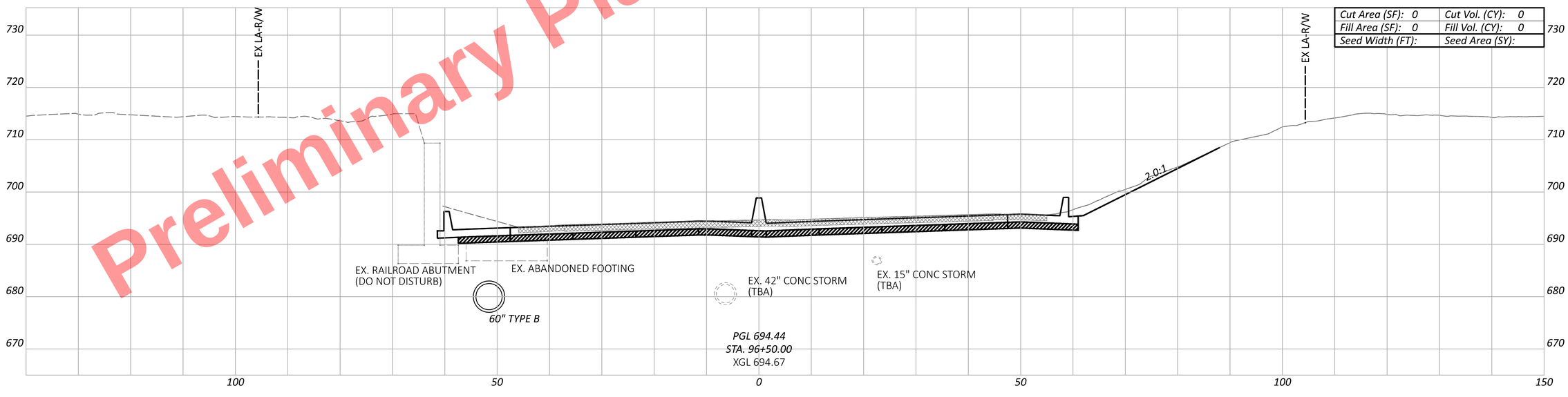
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.341 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 96+50.00 TO STA. 97+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

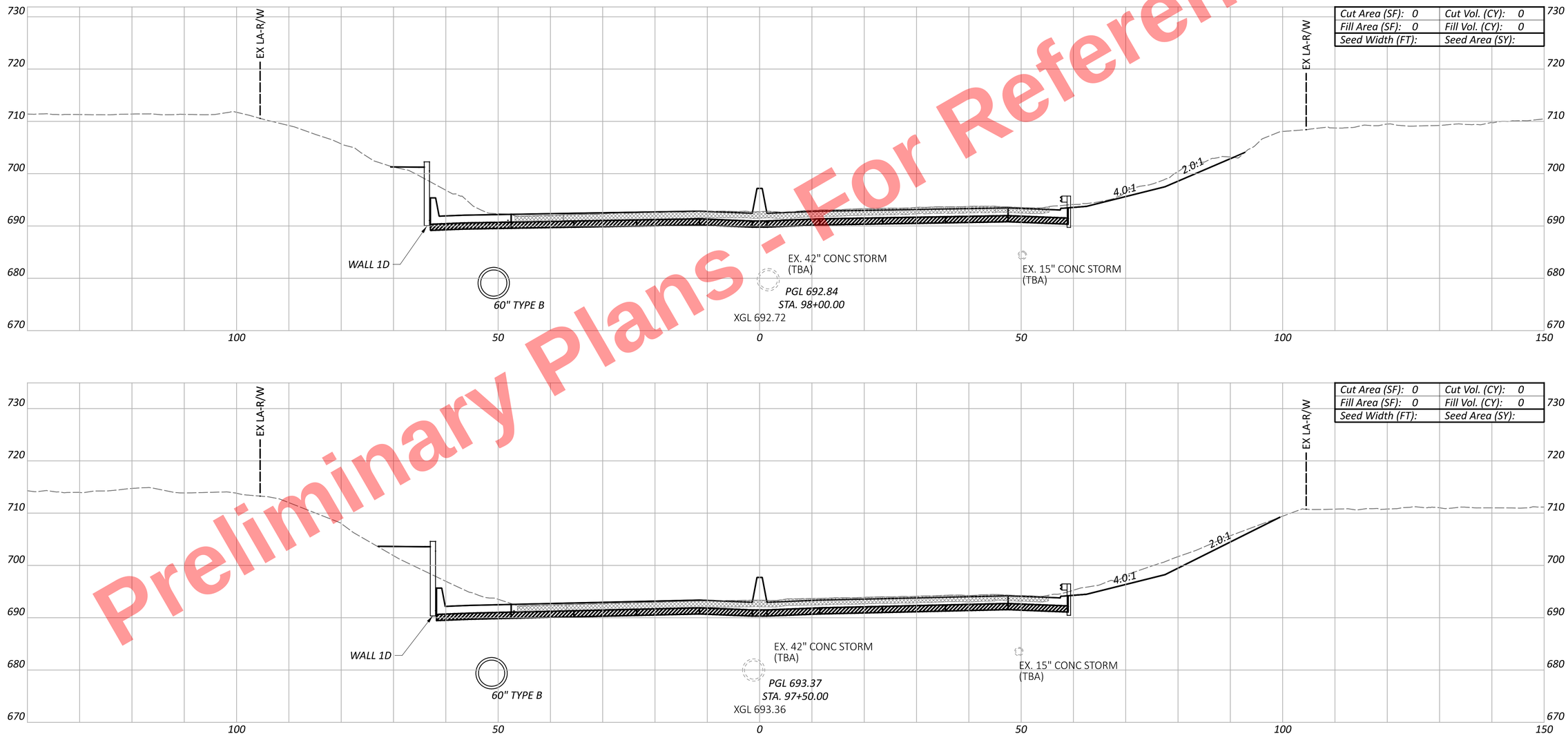
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.342 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 96+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:32 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 97+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:10:46 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 97+50.00 TO STA. 98+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

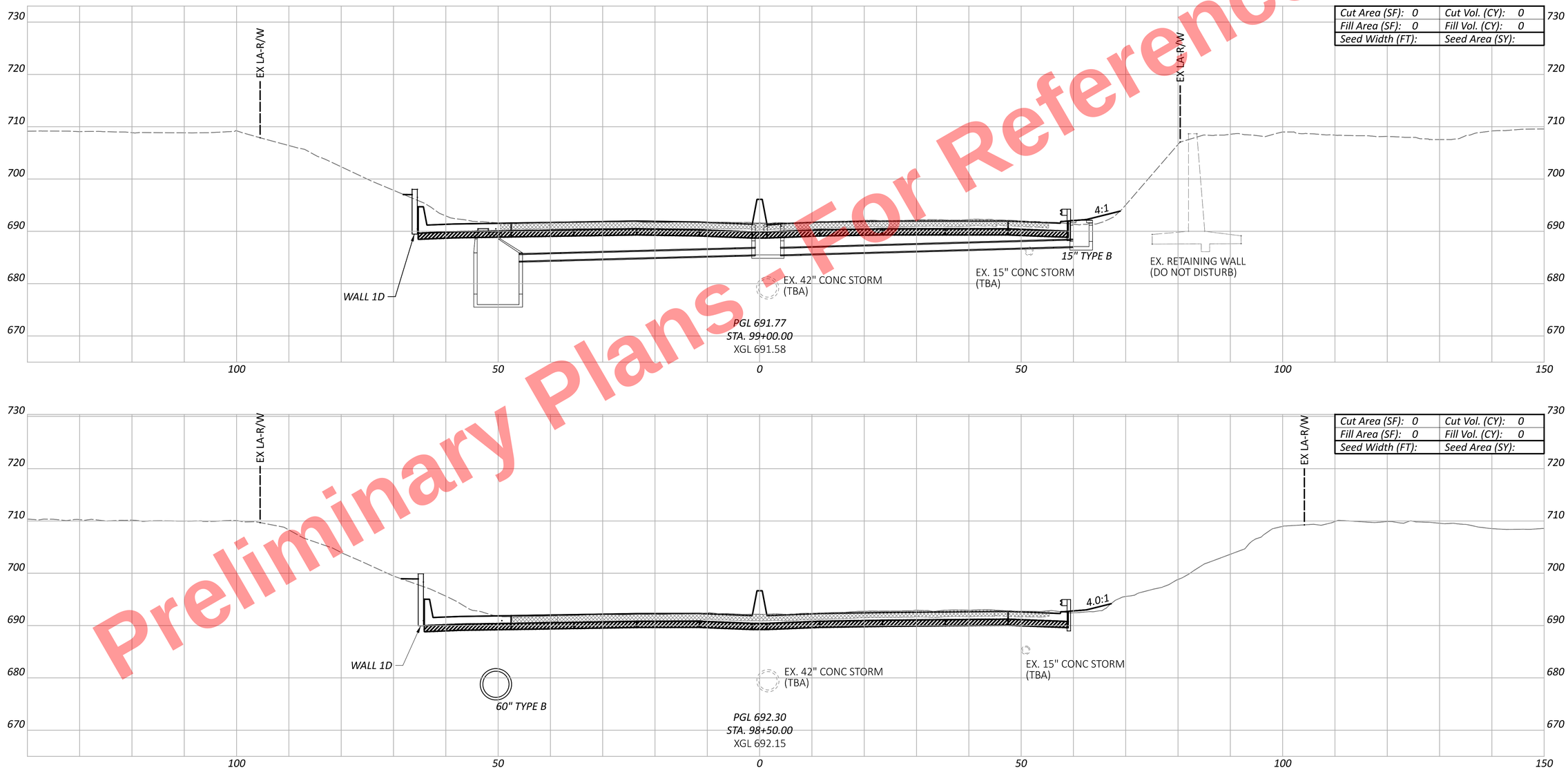
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.343 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 98+50.00 TO STA. 99+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

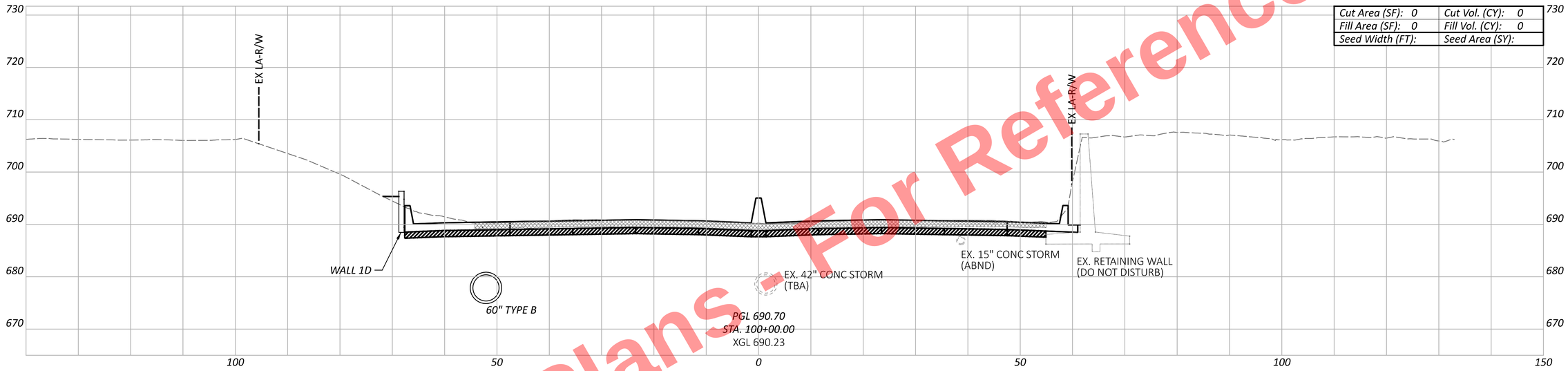
REVIEWER
MTR 04/01/22

PROJECT ID
105743

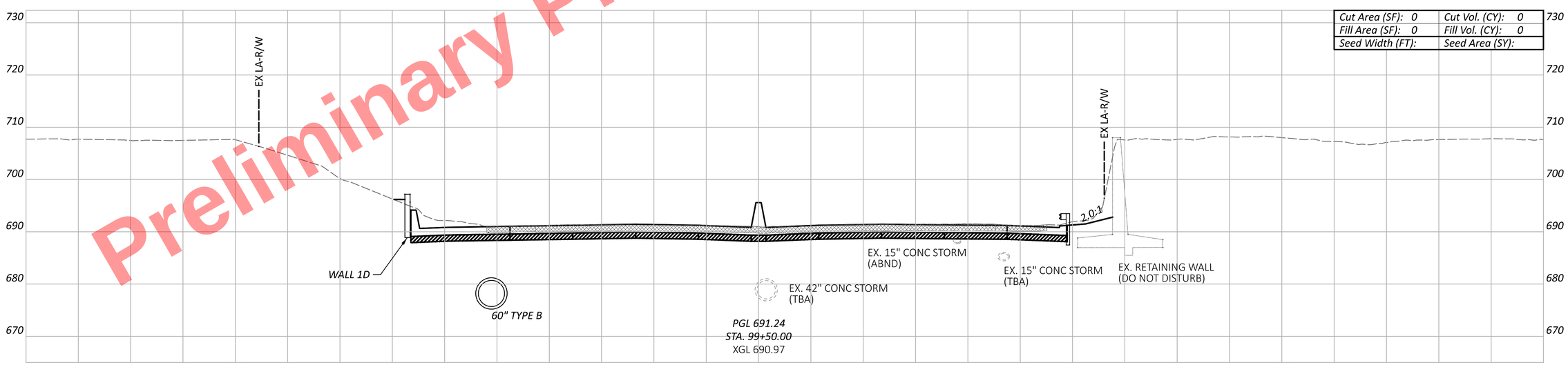
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.344 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 99+50.00 TO STA. 100+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

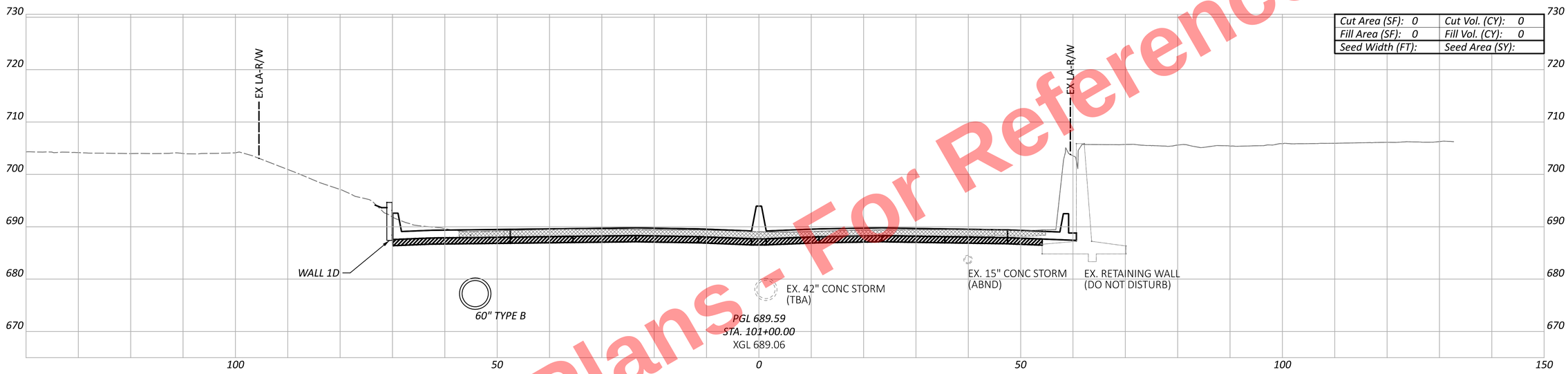
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.345 TOTAL P.1135

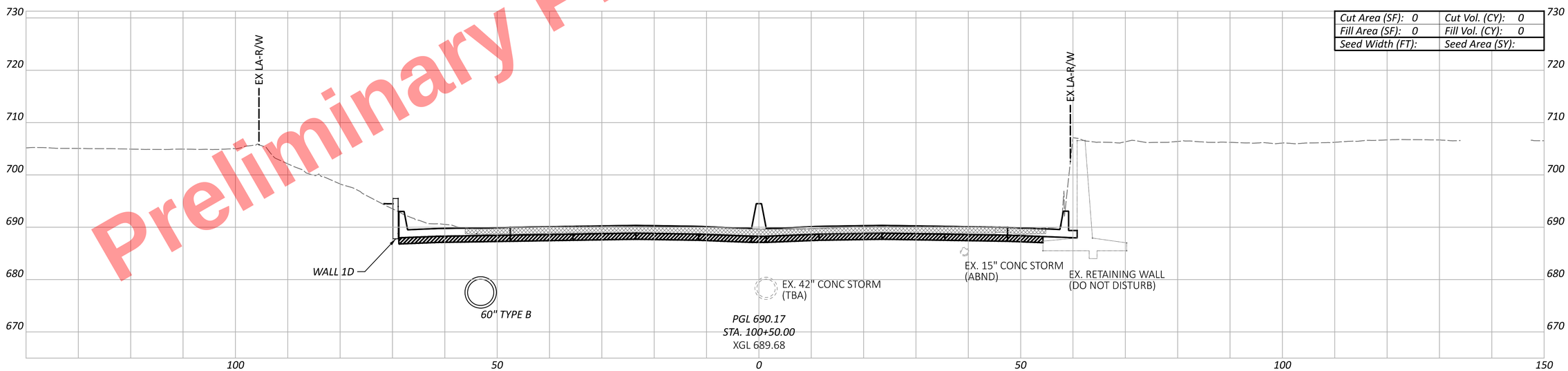
CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 99+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:11:15 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 100+50.00 TO STA. 101+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

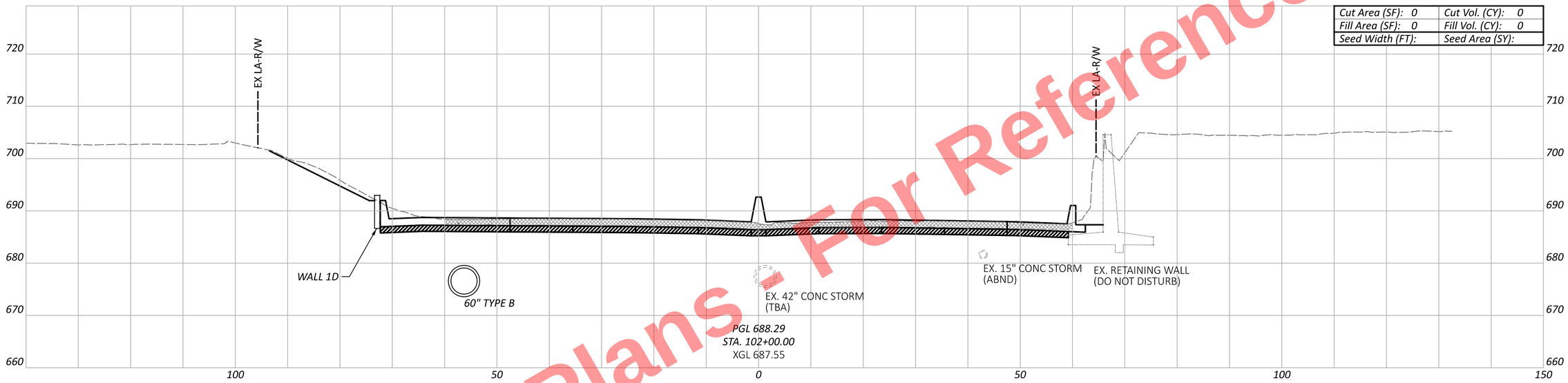
SHEET P.346 TOTAL P.1135

CUY-77-11.43 - PART 1

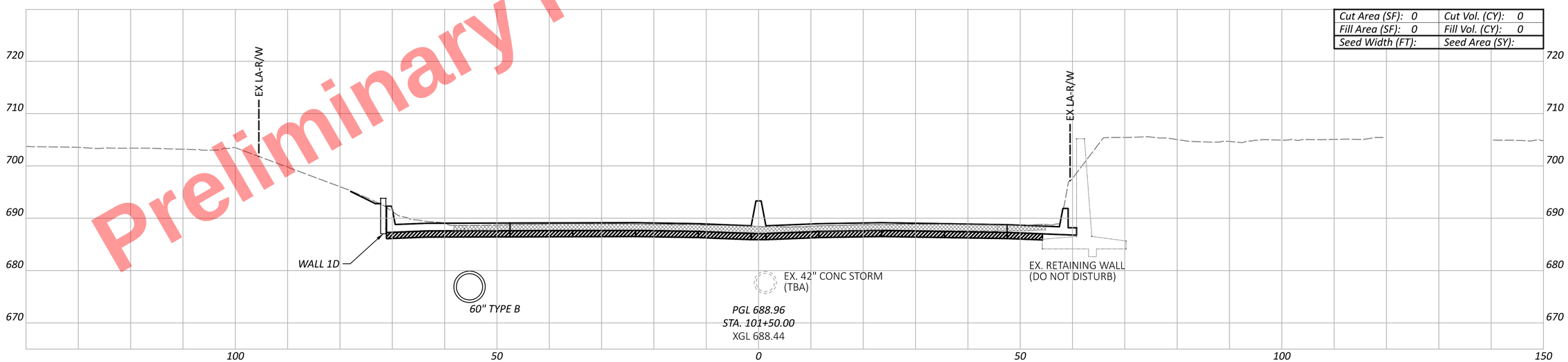
MODEL: CLP_I077 - 100+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:11:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 101+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:11:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 101+50.00 TO STA. 102+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

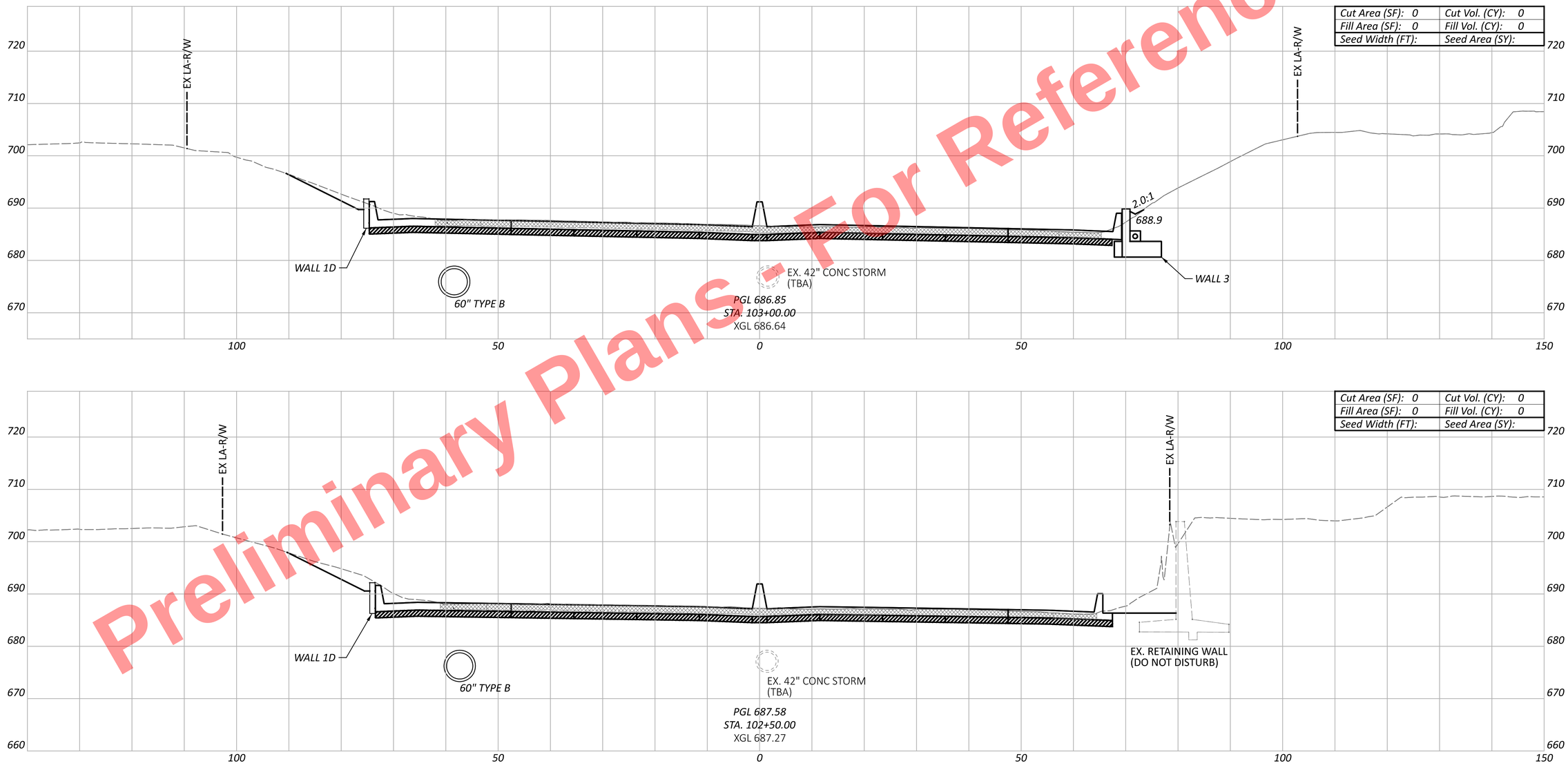
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.347 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 102+50.00 TO STA. 103+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.348 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 102+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:11:56 AM USER: kperkins
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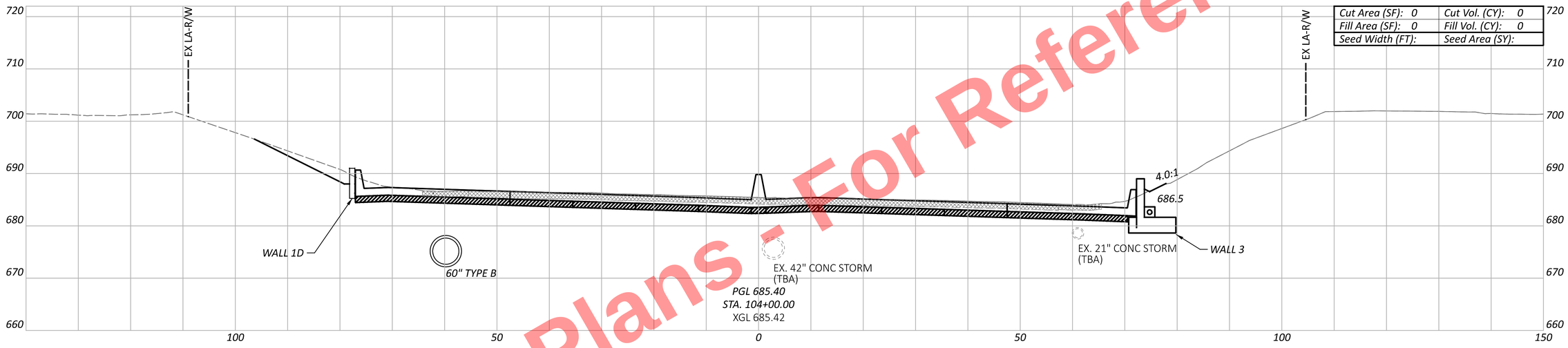
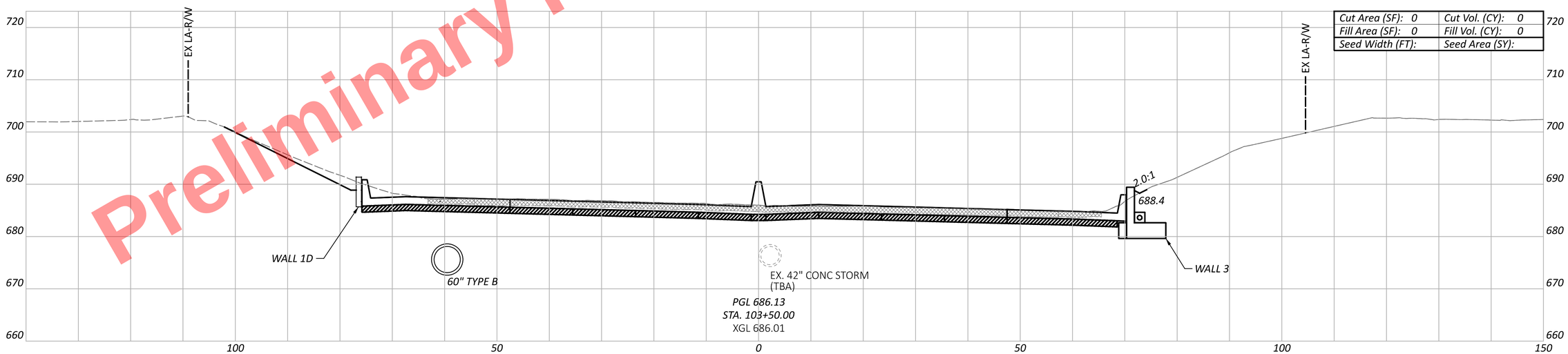
Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 103+50.00 TO STA. 104+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 103+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:10 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

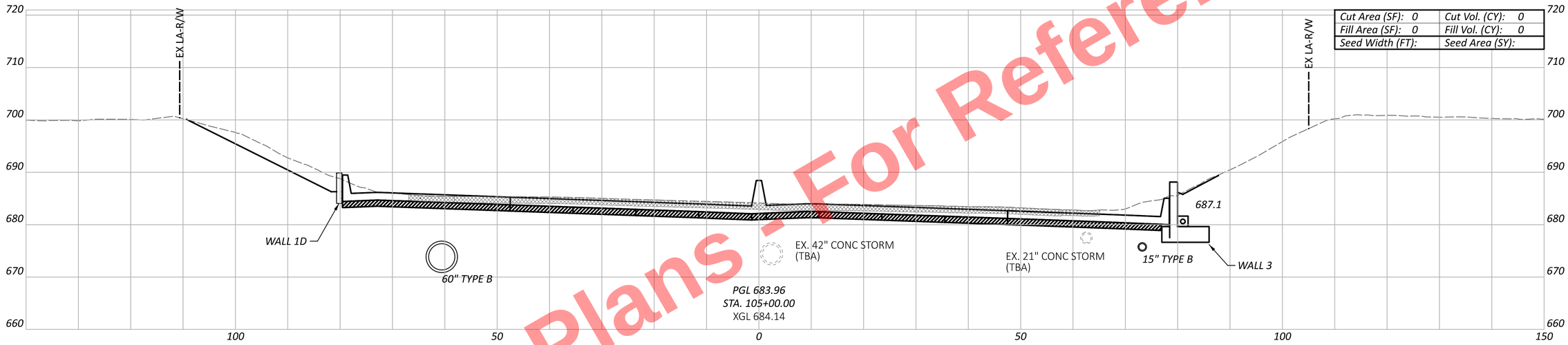
DESIGNER
EAP

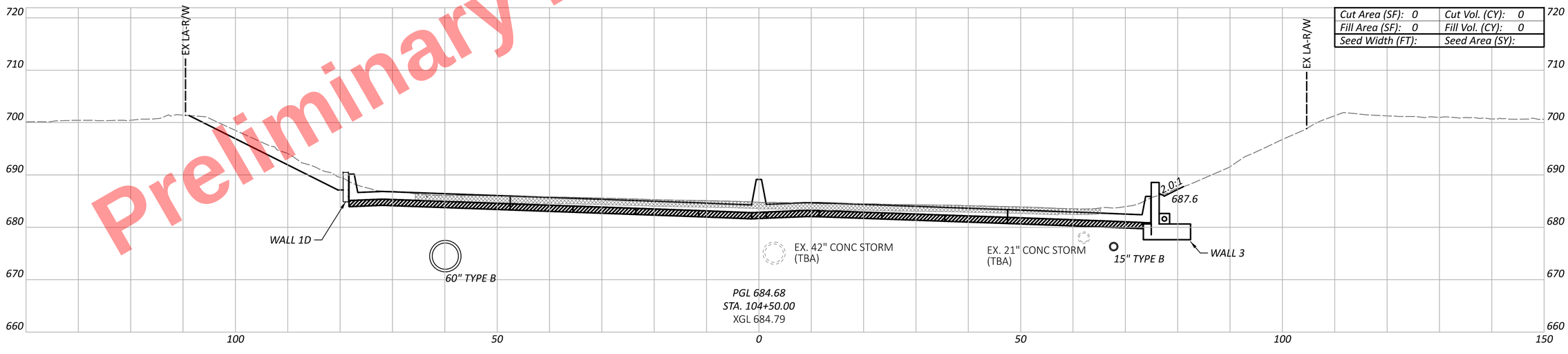
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.349 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 104+50.00 TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

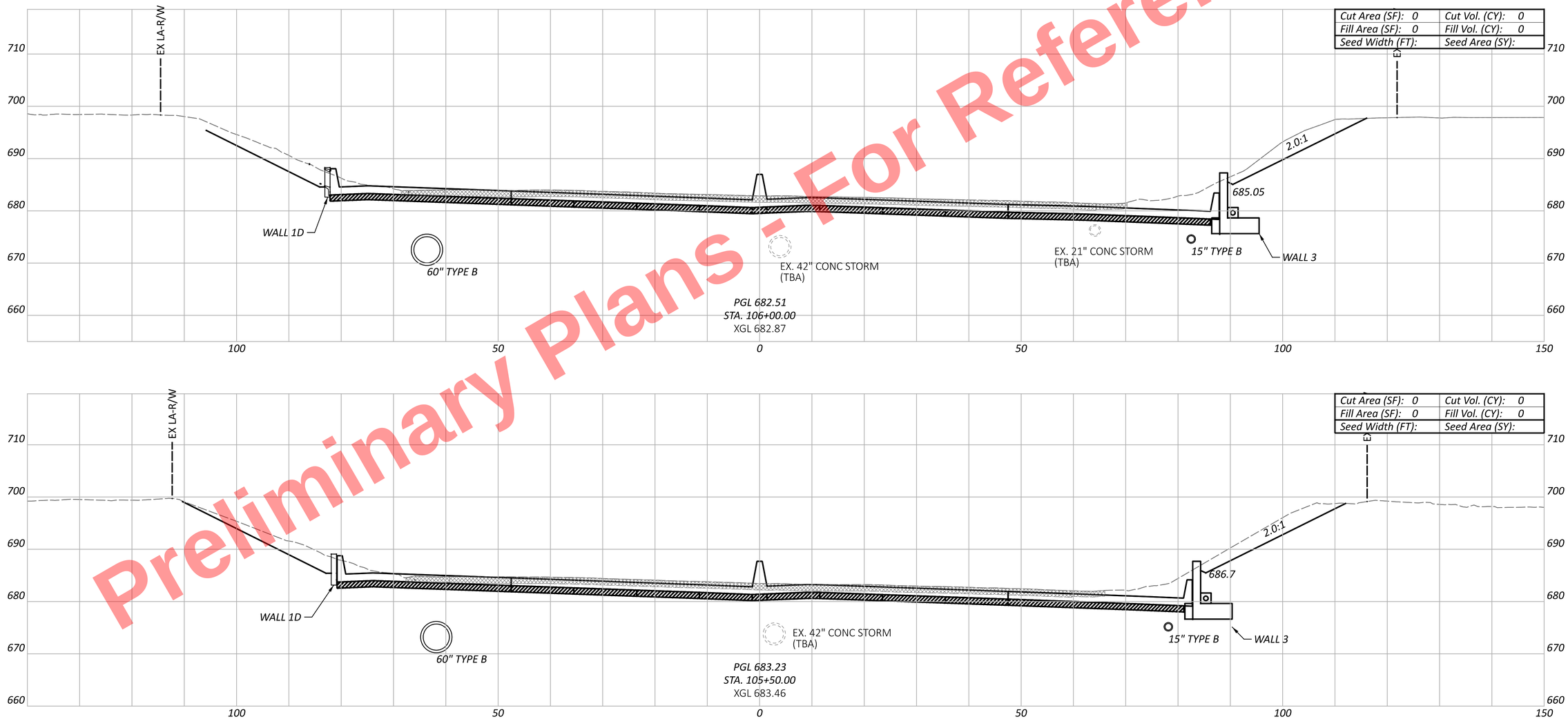
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.350 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 104+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 105+50.00 TO STA. 106+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 105+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:27 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

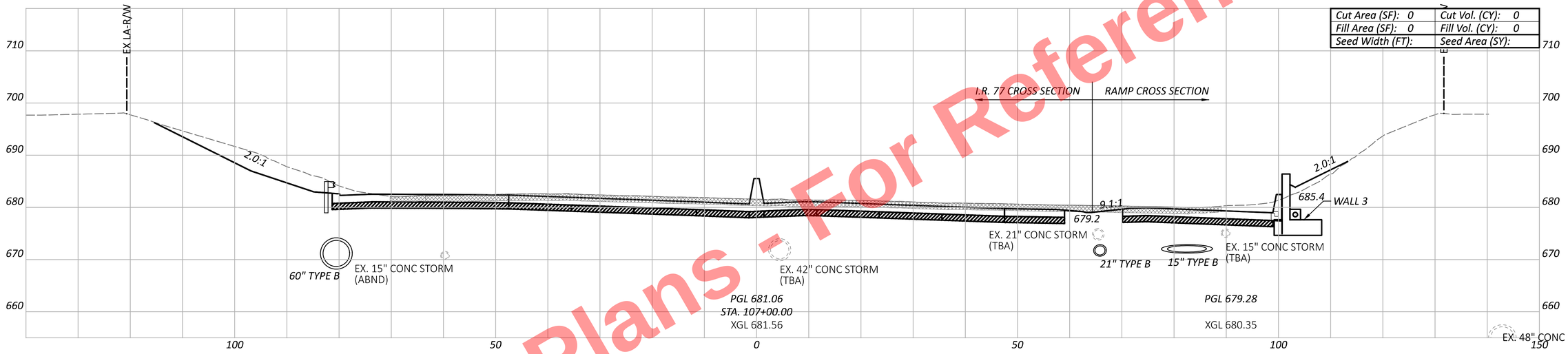
DESIGNER
EAP

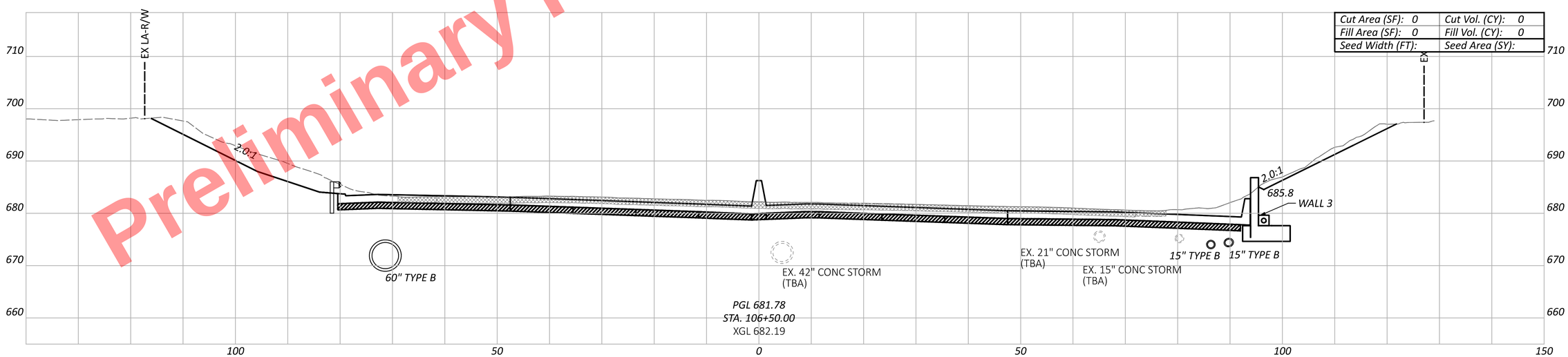
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.351 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 106+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:33 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 106+50.00 TO STA. 107+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.352 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 107+50.00 TO STA. 108+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 107+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:40 AM USER: kperkins
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DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

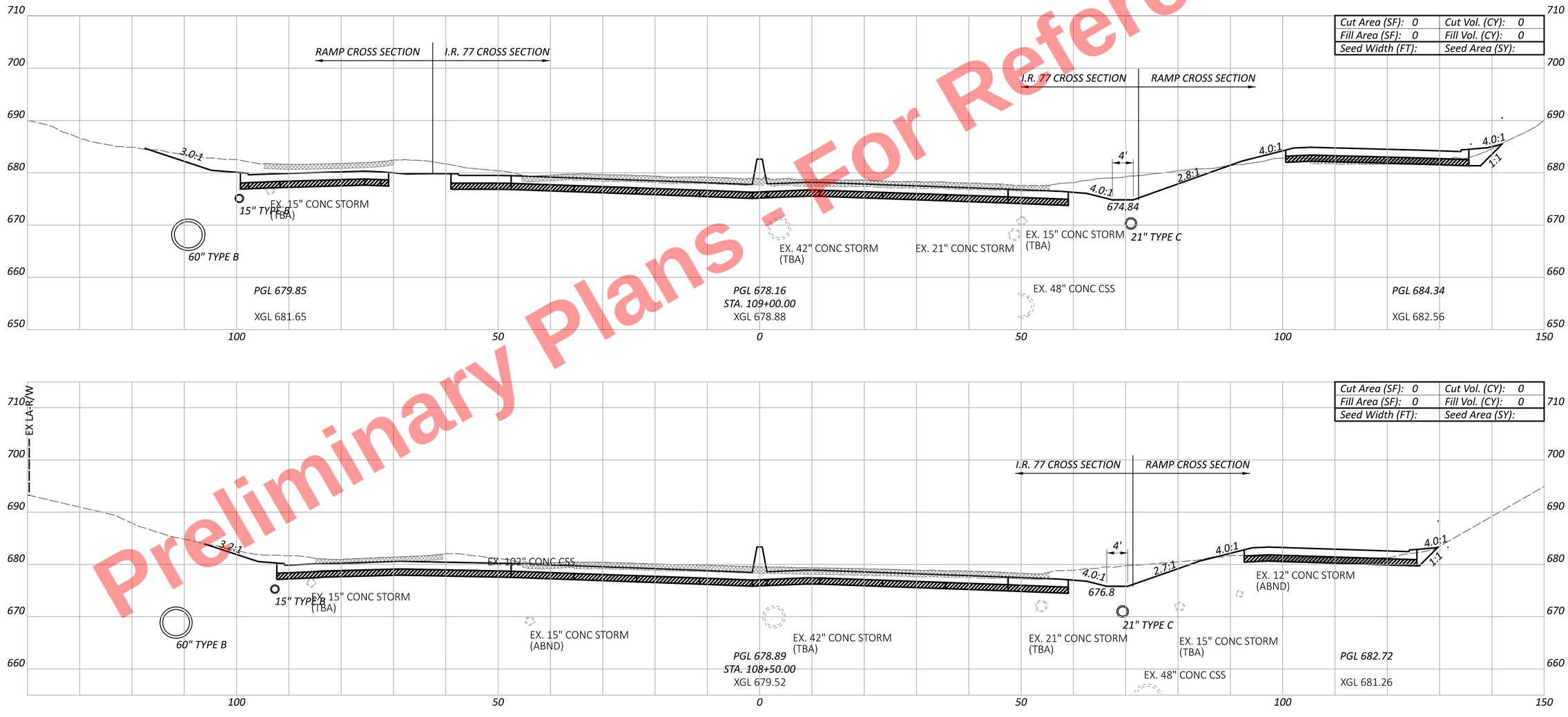
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.353 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 108+50.00 TO STA. 109+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 108+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:46 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

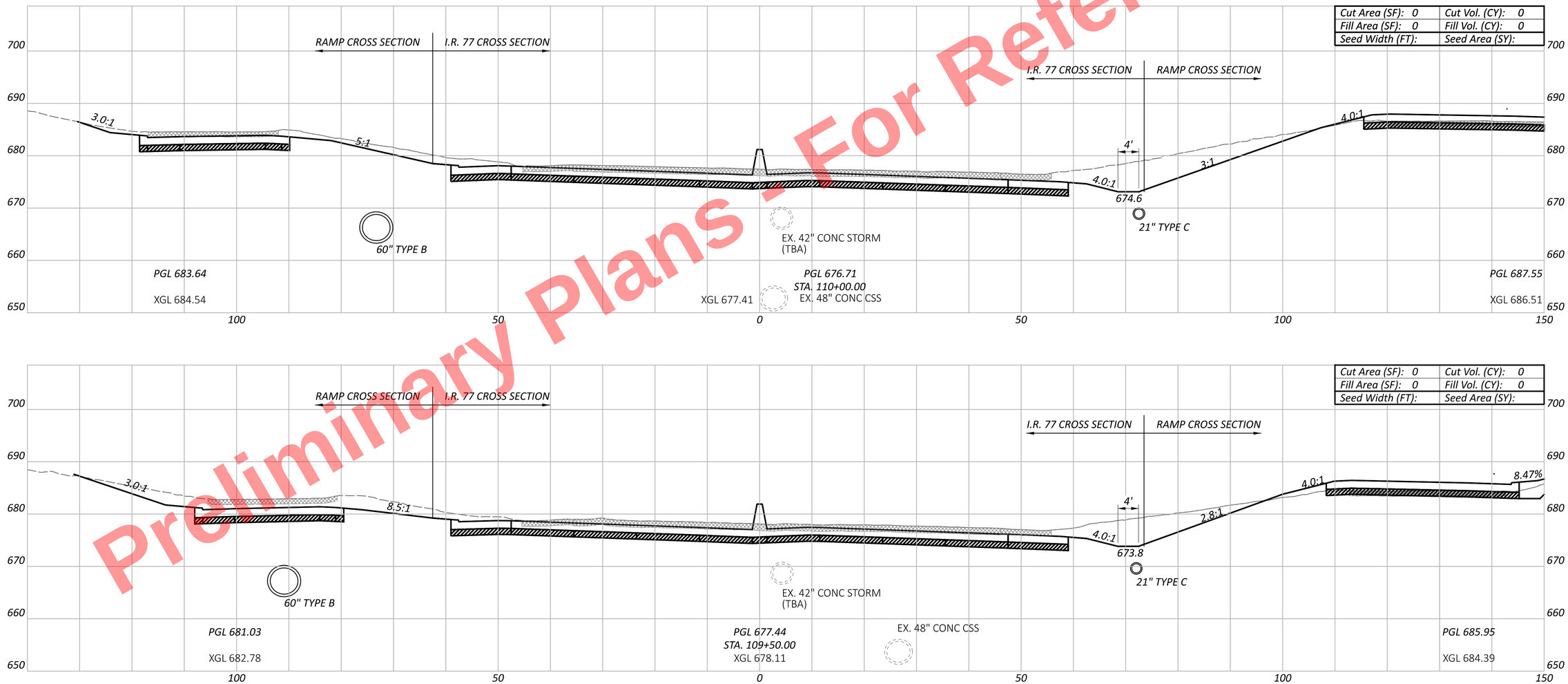
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.354 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
STA. 109+50.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

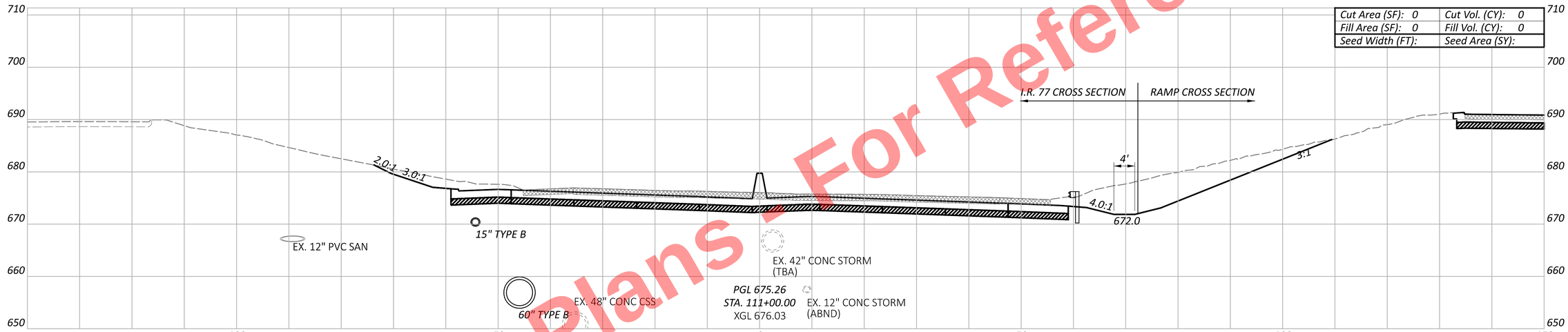
REVIEWER
MTR 04/01/22

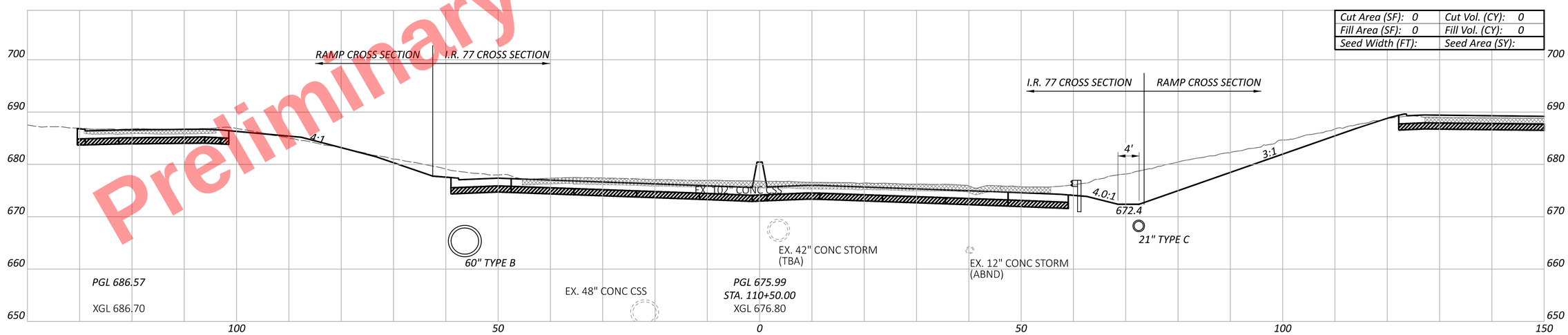
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.355 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 110+50.00 TO STA. 111+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

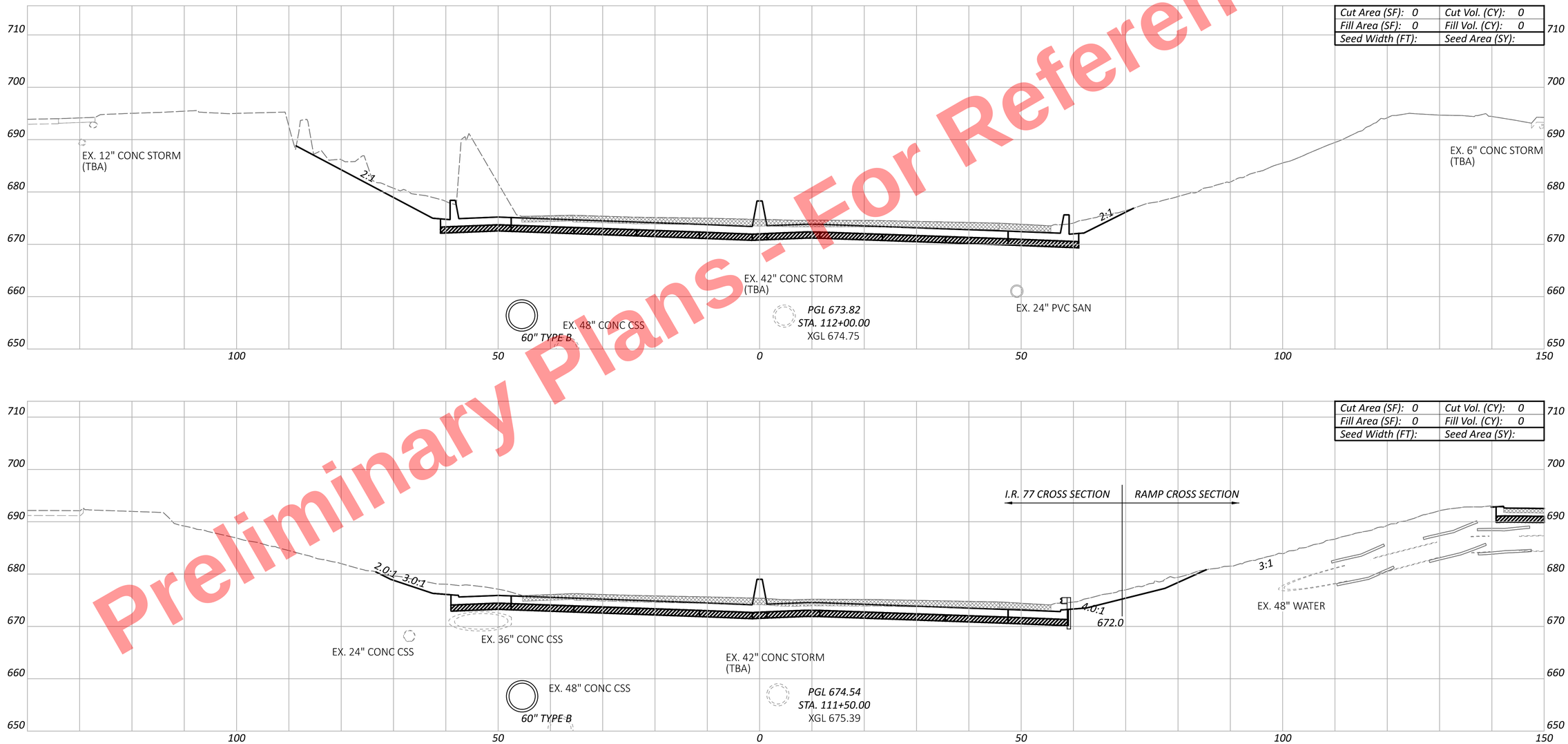
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.356 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 110+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:12:59 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 111+50.00 TO STA. 112+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.357 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 111+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:06 AM USER: kperkins
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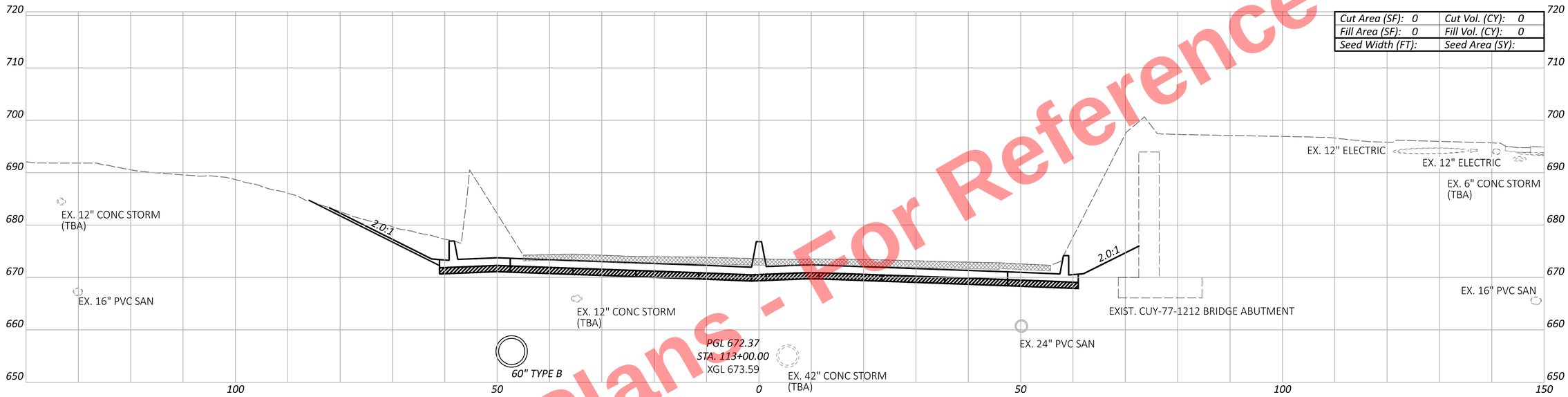
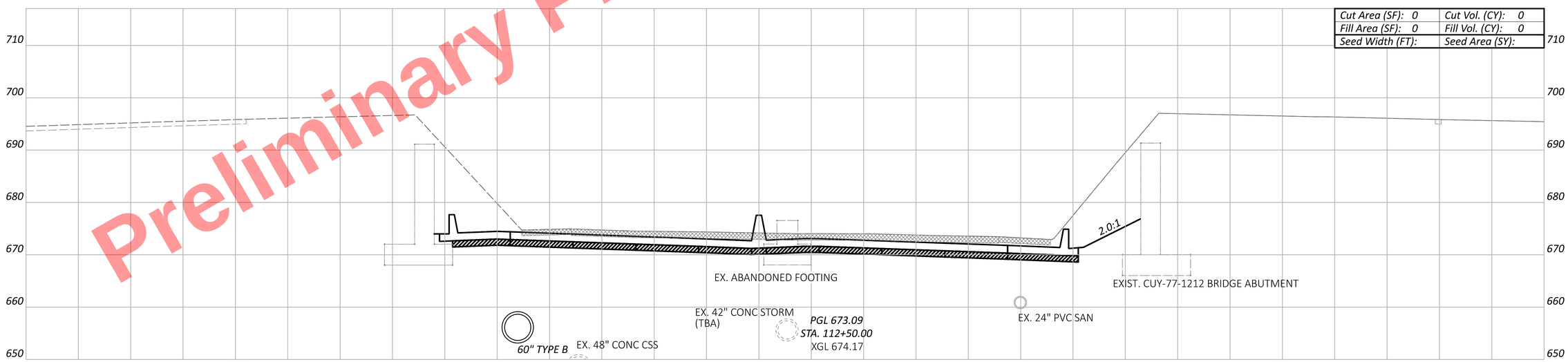
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 112+50.00 TO STA. 113+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.358 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 112+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:12 AM USER: kperkins
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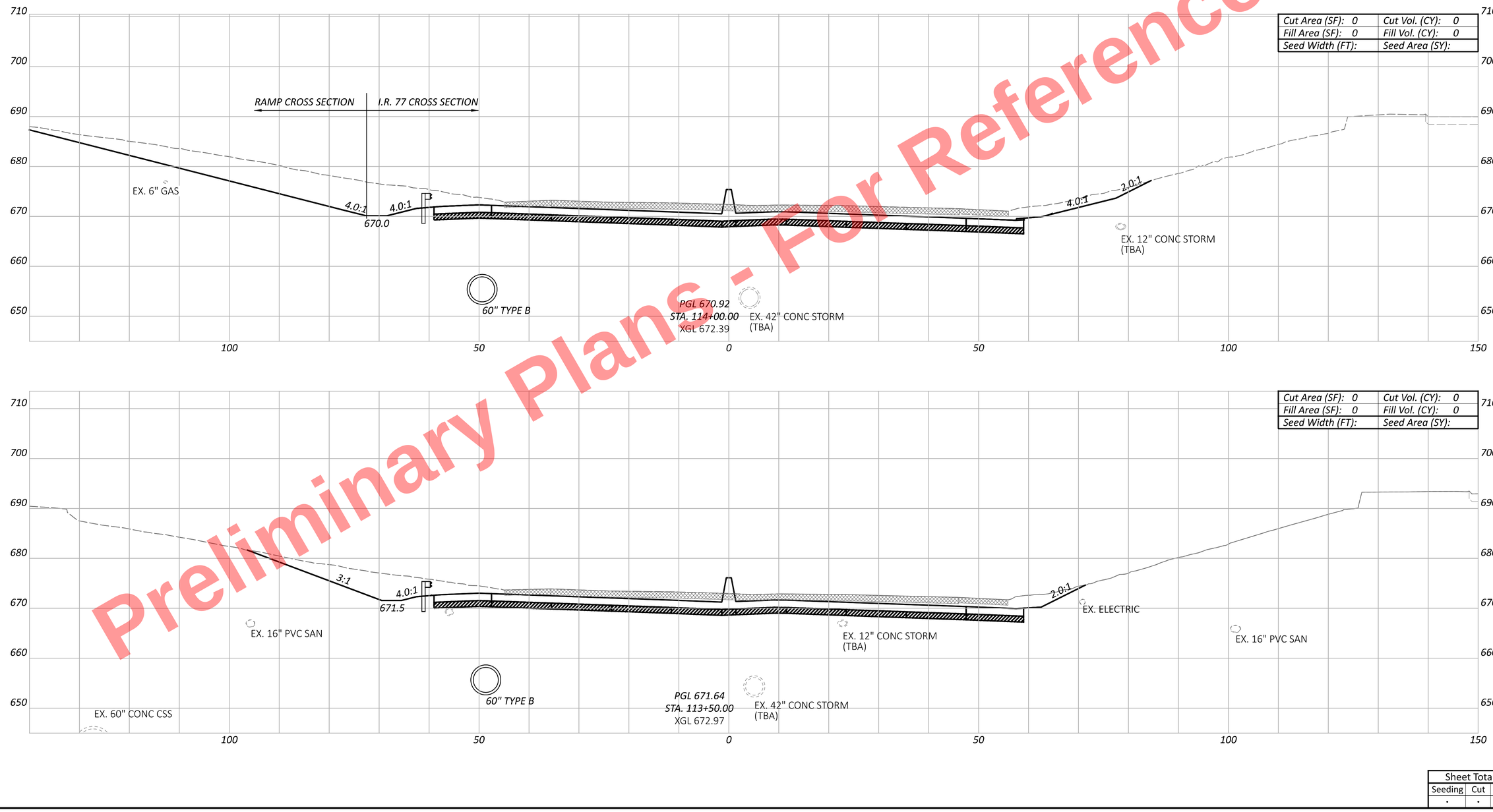
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 113+50.00 TO STA. 114+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

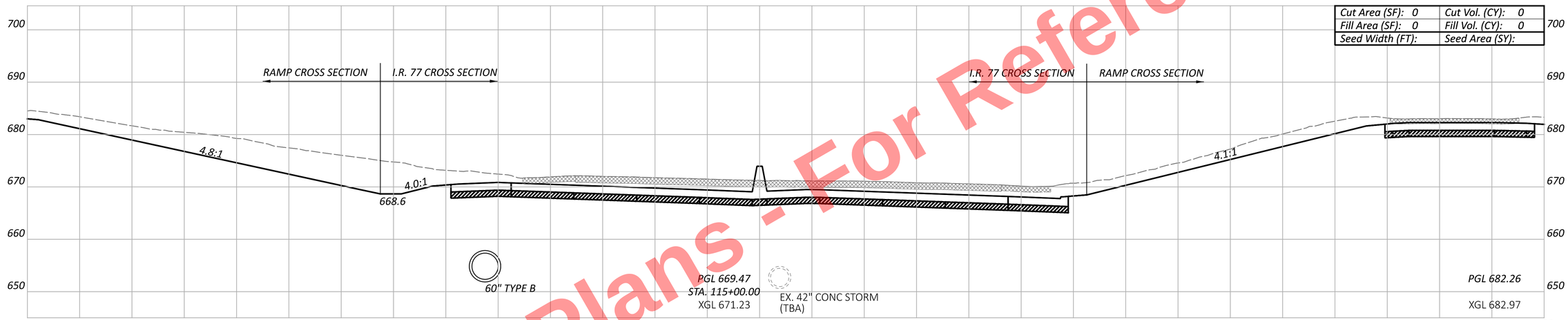
REVIEWER
MTR 04/01/22

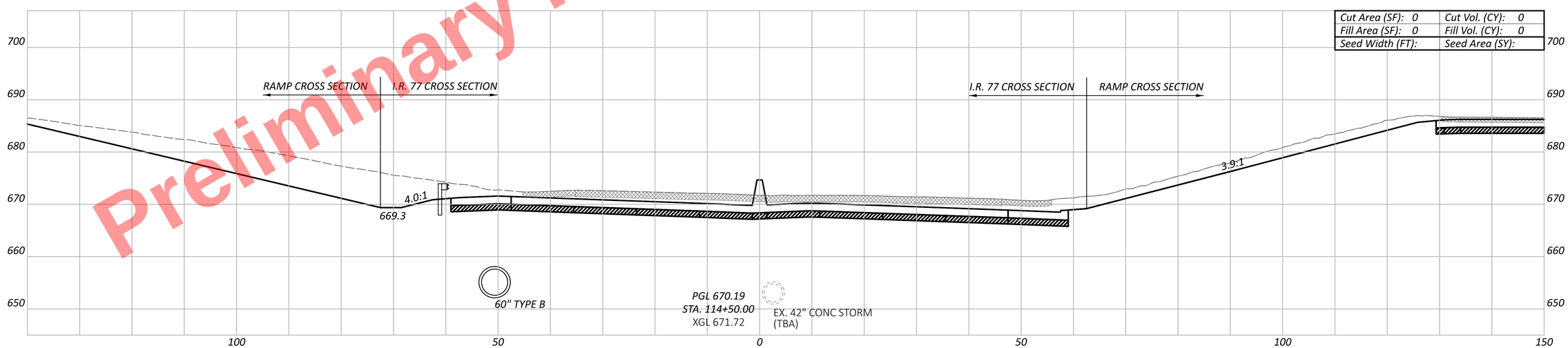
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.359 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 114+50.00 TO STA. 115+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 114+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:24 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

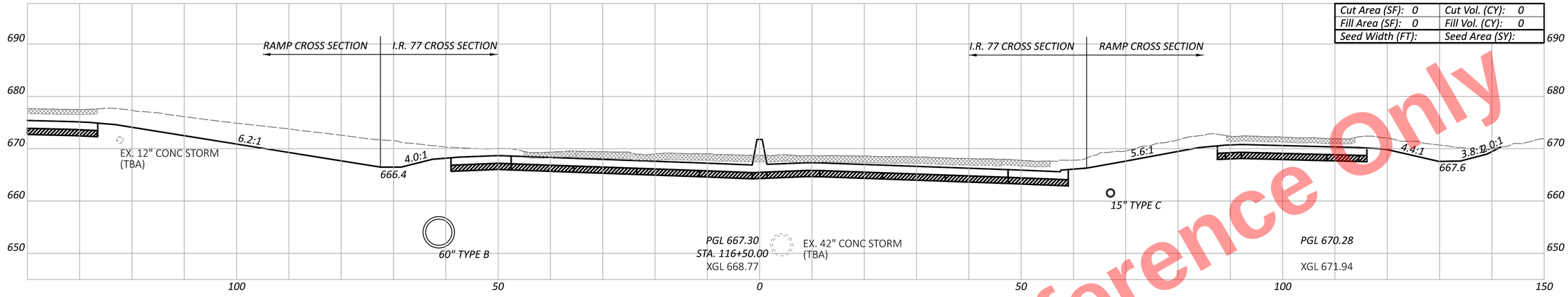
DESIGNER
EAP

REVIEWER
MTR 04/01/22

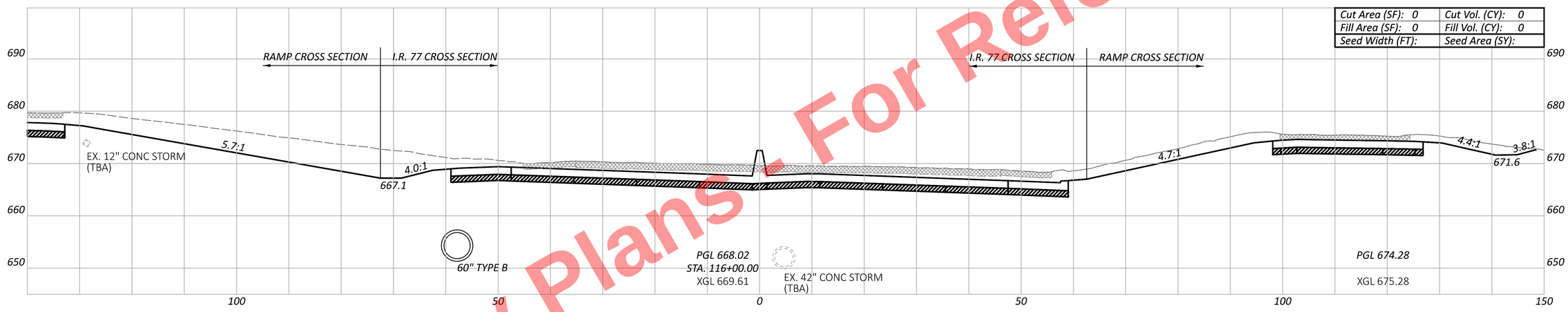
PROJECT ID
105743

SHEET P.360 TOTAL P.1135

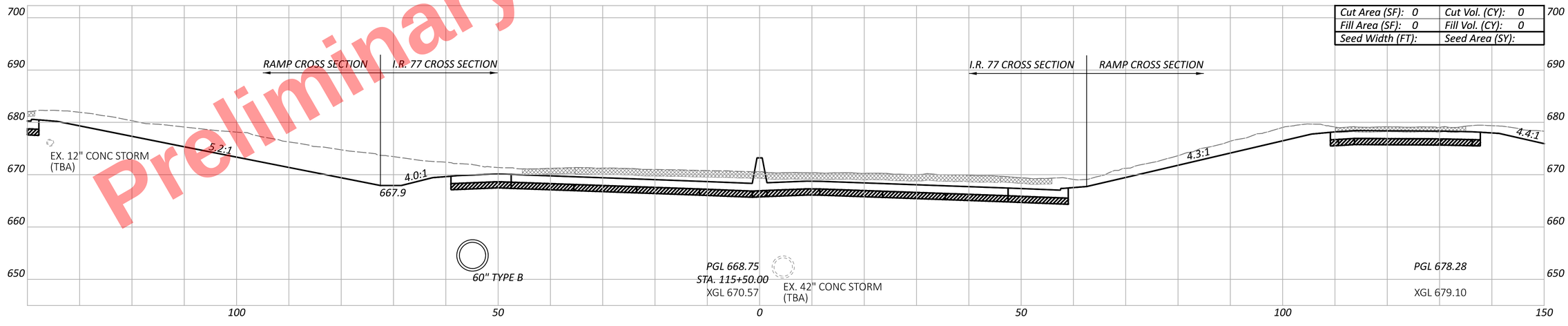
Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 115+50.00 TO STA. 116+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

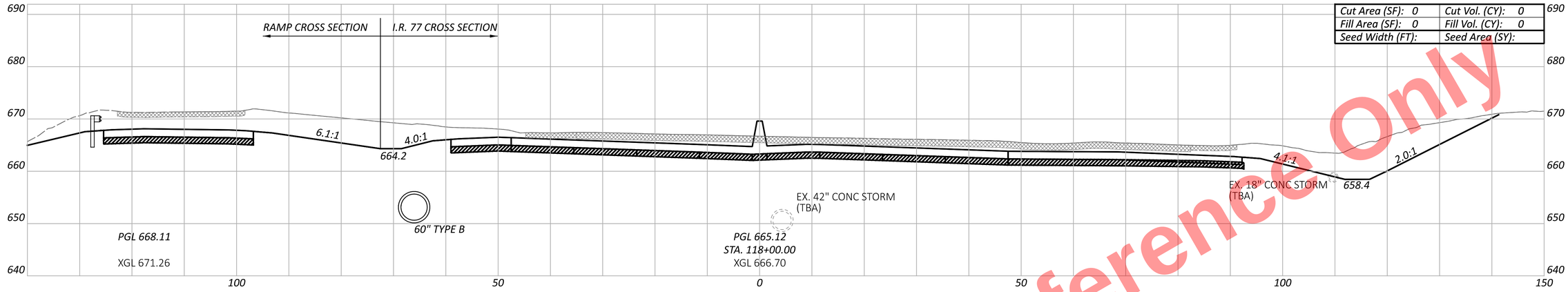
REVIEWER
MTR 04/01/22

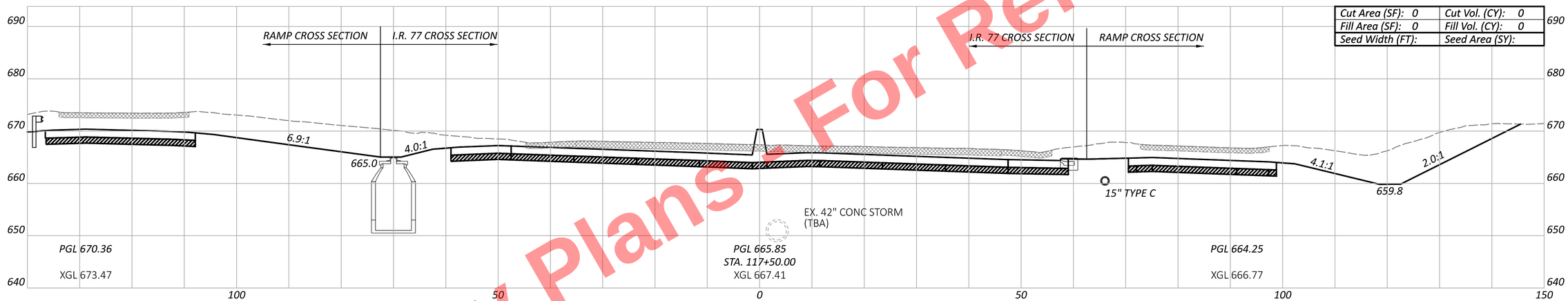
PROJECT ID
105743

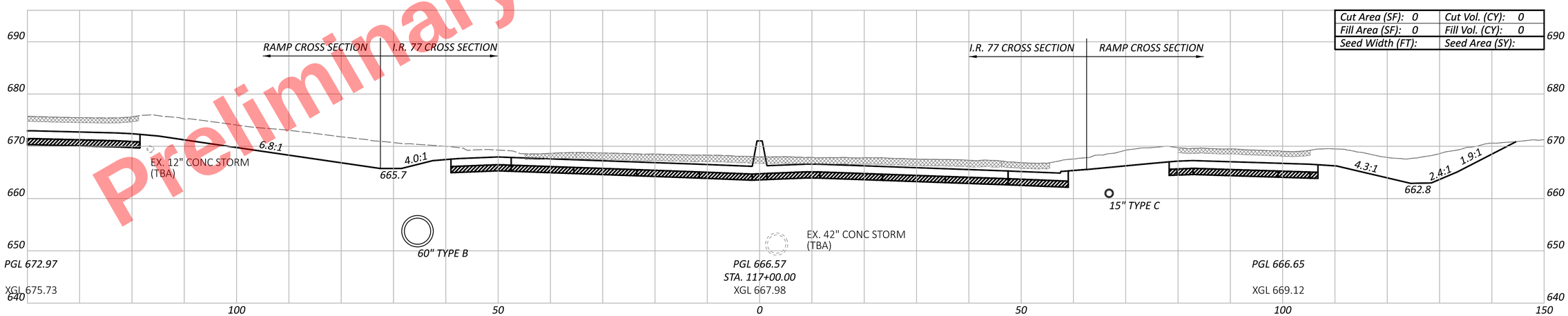
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.361 TOTAL P.1135

MODEL: CLP_I077 - 115+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 117+00.00 TO STA. 118+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER
EAP

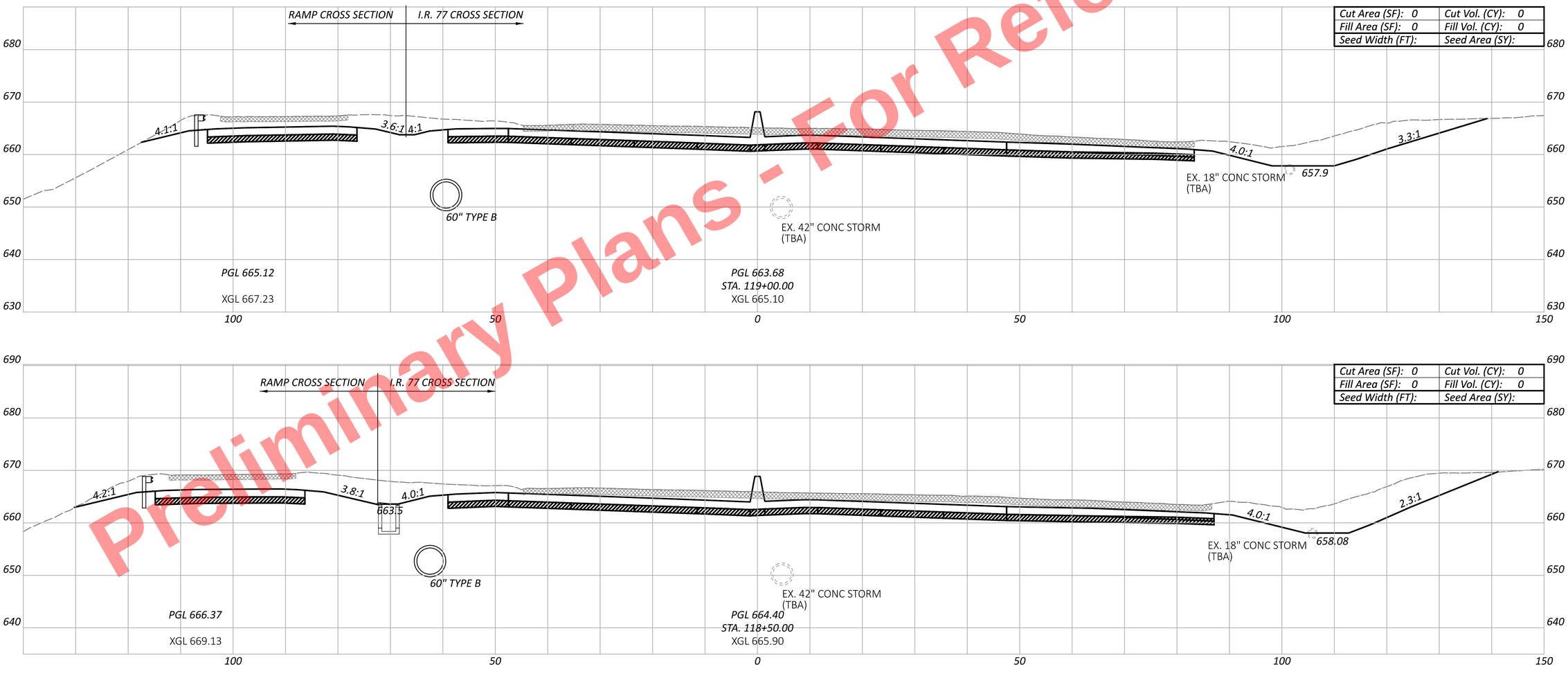
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.362 TOTAL P.1135

MODEL: CLP_I077 - 117+00.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:38 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 118+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:47 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 118+50.00 TO STA. 119+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.363 | P.1135 |

Preliminary Plans - For Reference Only

| | |
|---|---|
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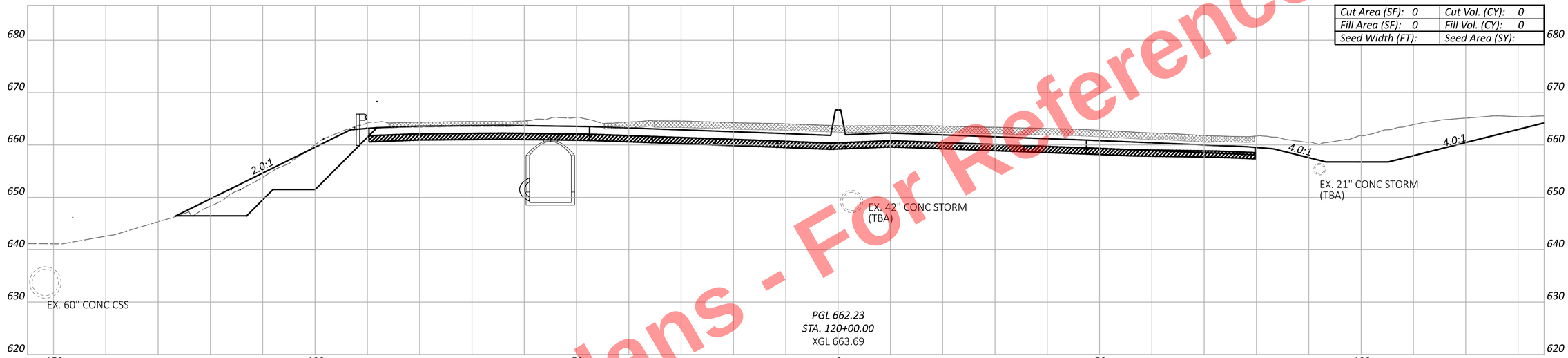
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

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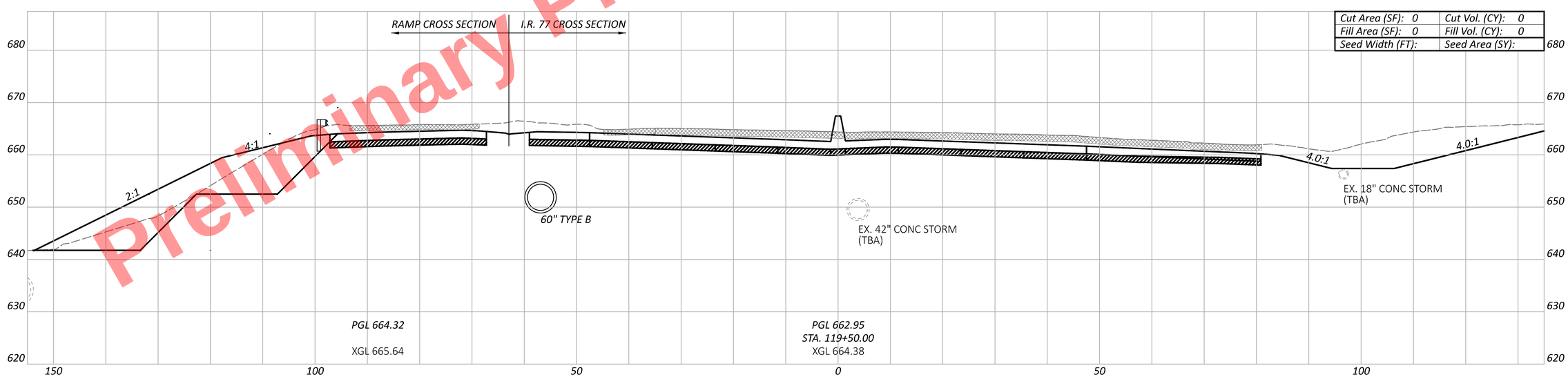
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 119+50.00 TO STA. 120+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.364 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 119+50.00-1-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:53 AM USER: kperkins
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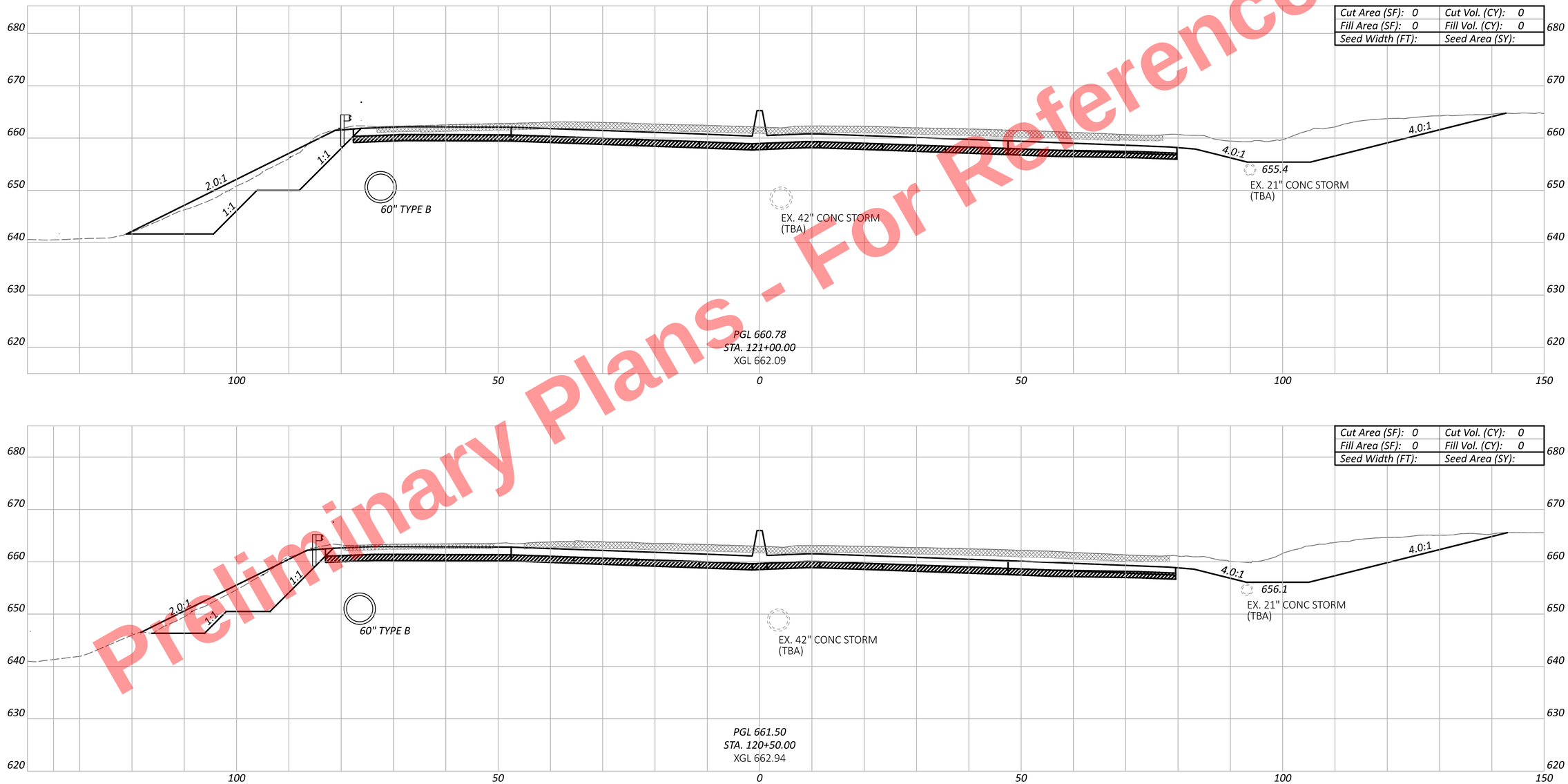


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 120+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:13:59 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 120+50.00 TO STA. 121+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

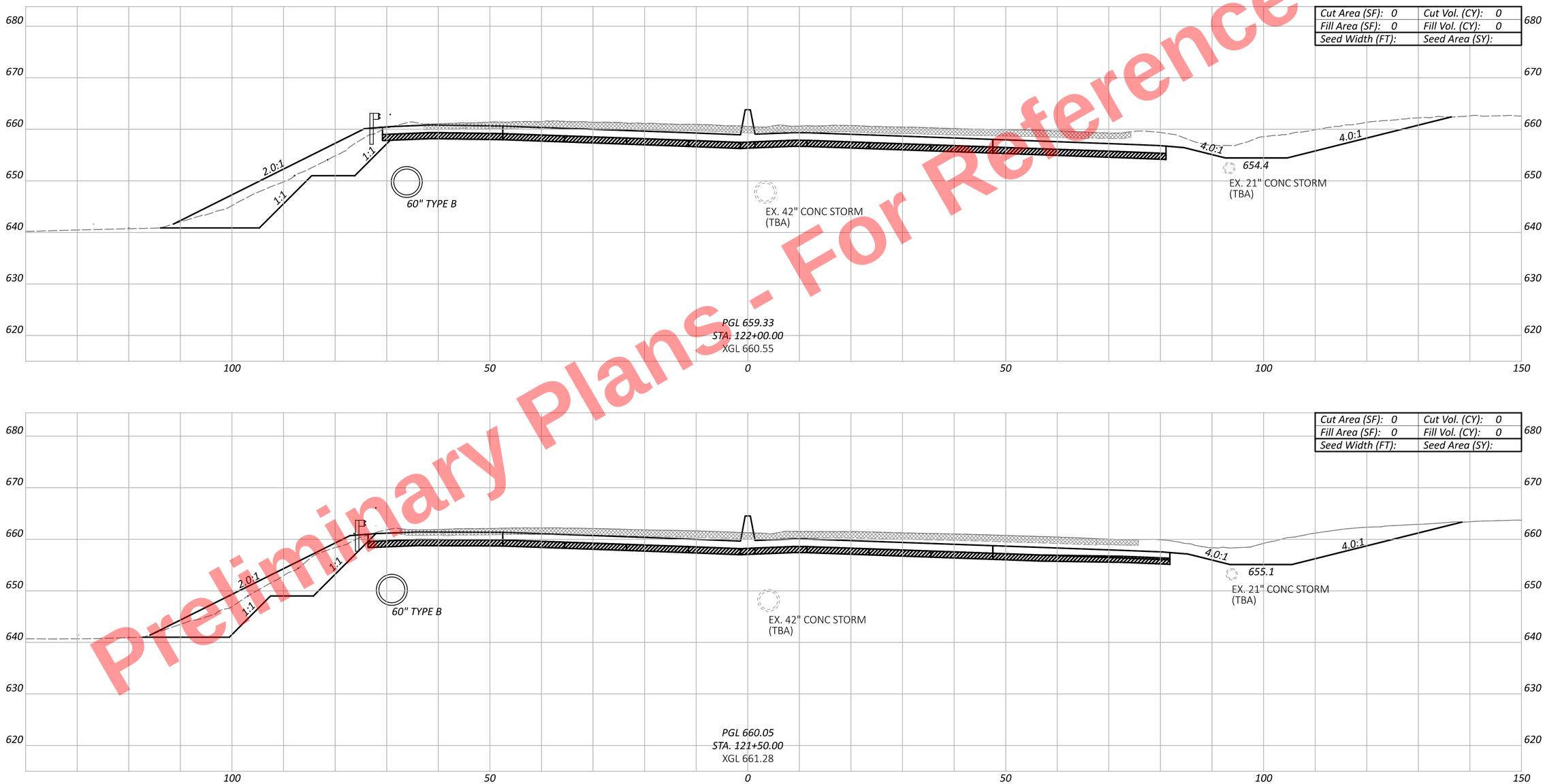
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.365 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 121+50.00 TO STA. 122+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

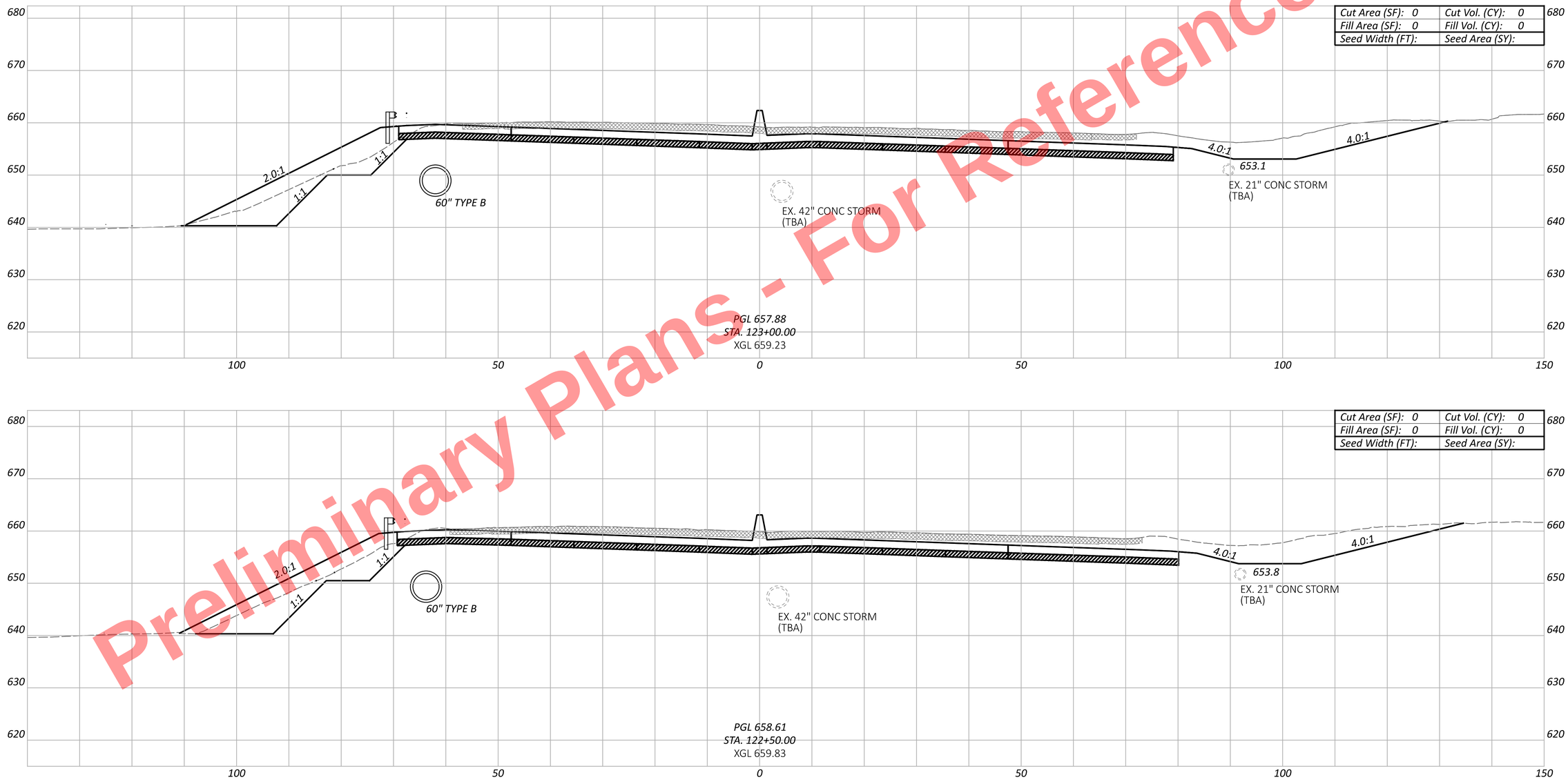
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.366 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 122+50.00 TO STA. 123+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 122+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:14:11 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.367 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 123+50.00-A PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:14:17 AM USER: kperkins
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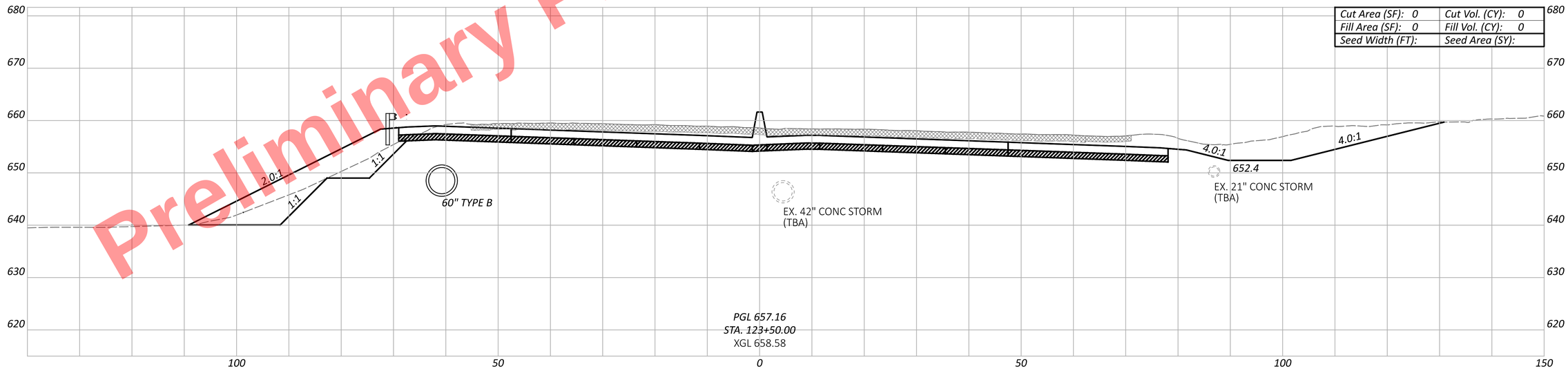



| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 123+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

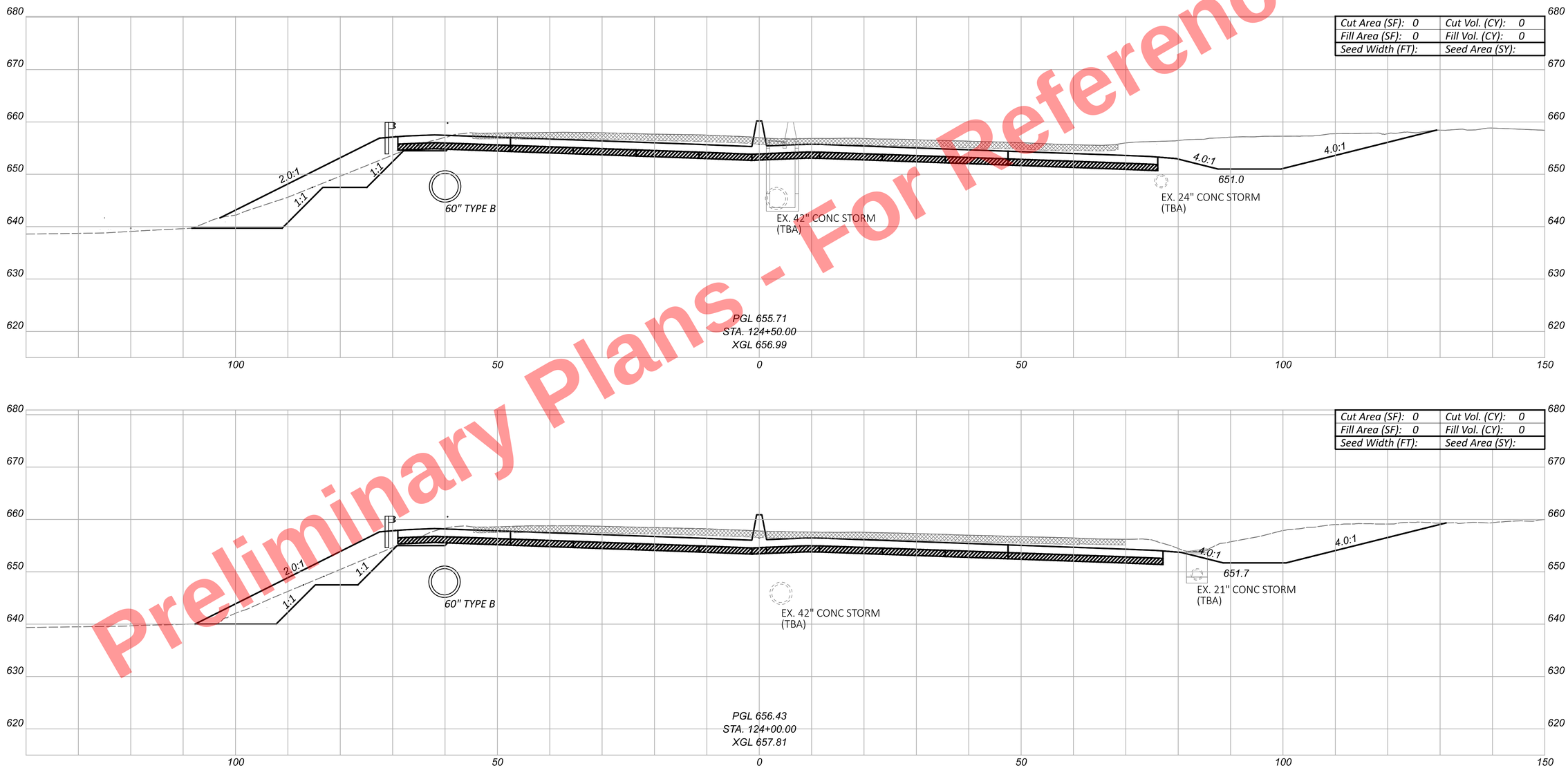
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.368 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 124+00.00 TO STA. 124+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.369 | TOTAL P.1135

MODEL: CLP_I077 - 124+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:14:35 AM USER: kperkins
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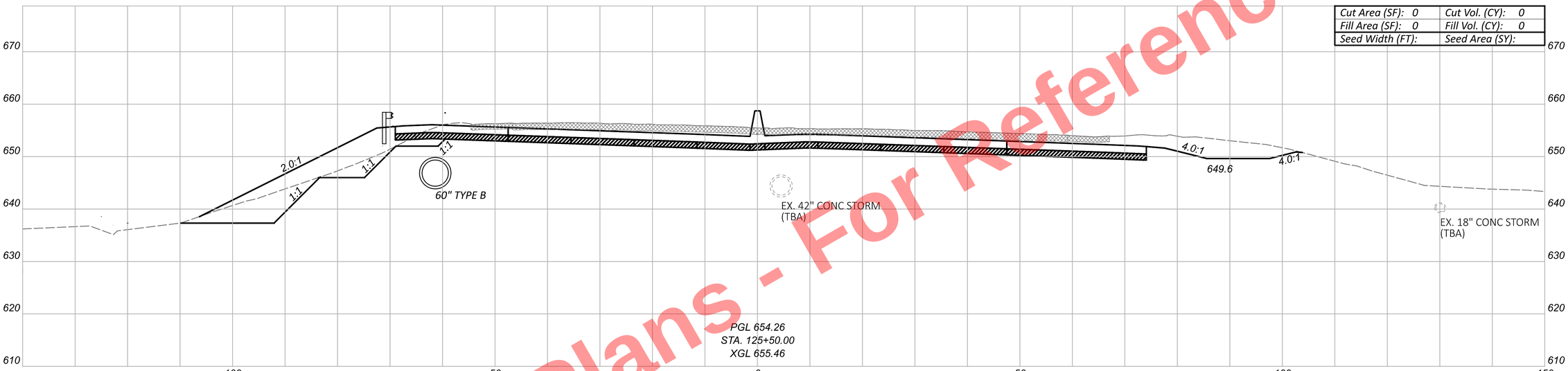
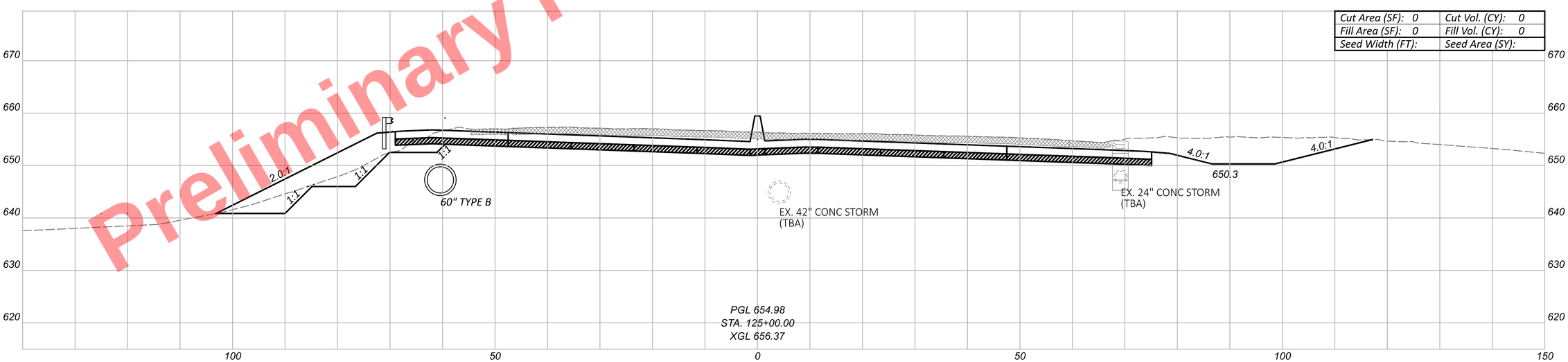
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 125+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:14:44 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 125+00.00 TO STA. 125+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

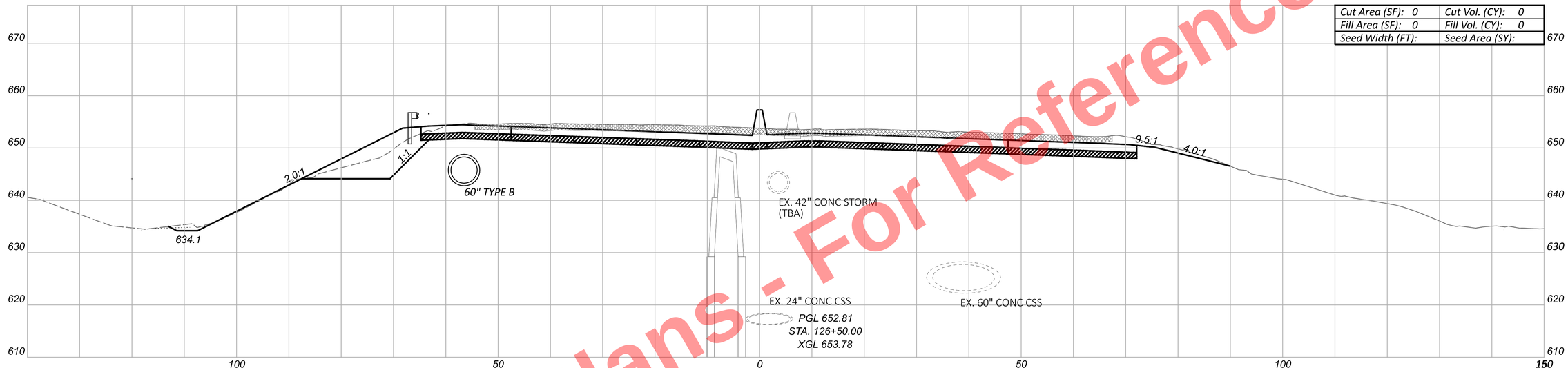
DESIGNER
EAP

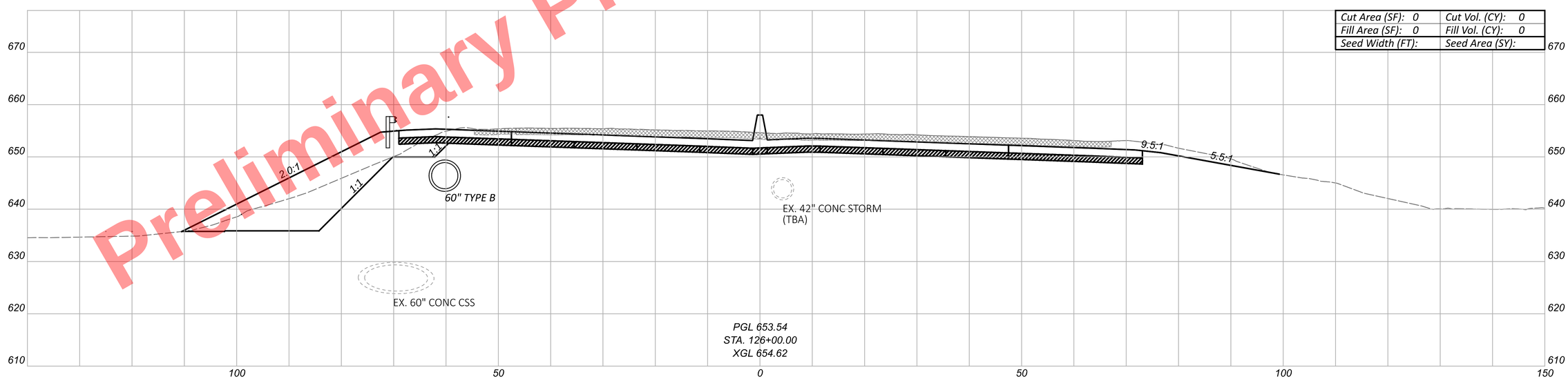
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.370 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 126+00.00 TO STA. 126+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

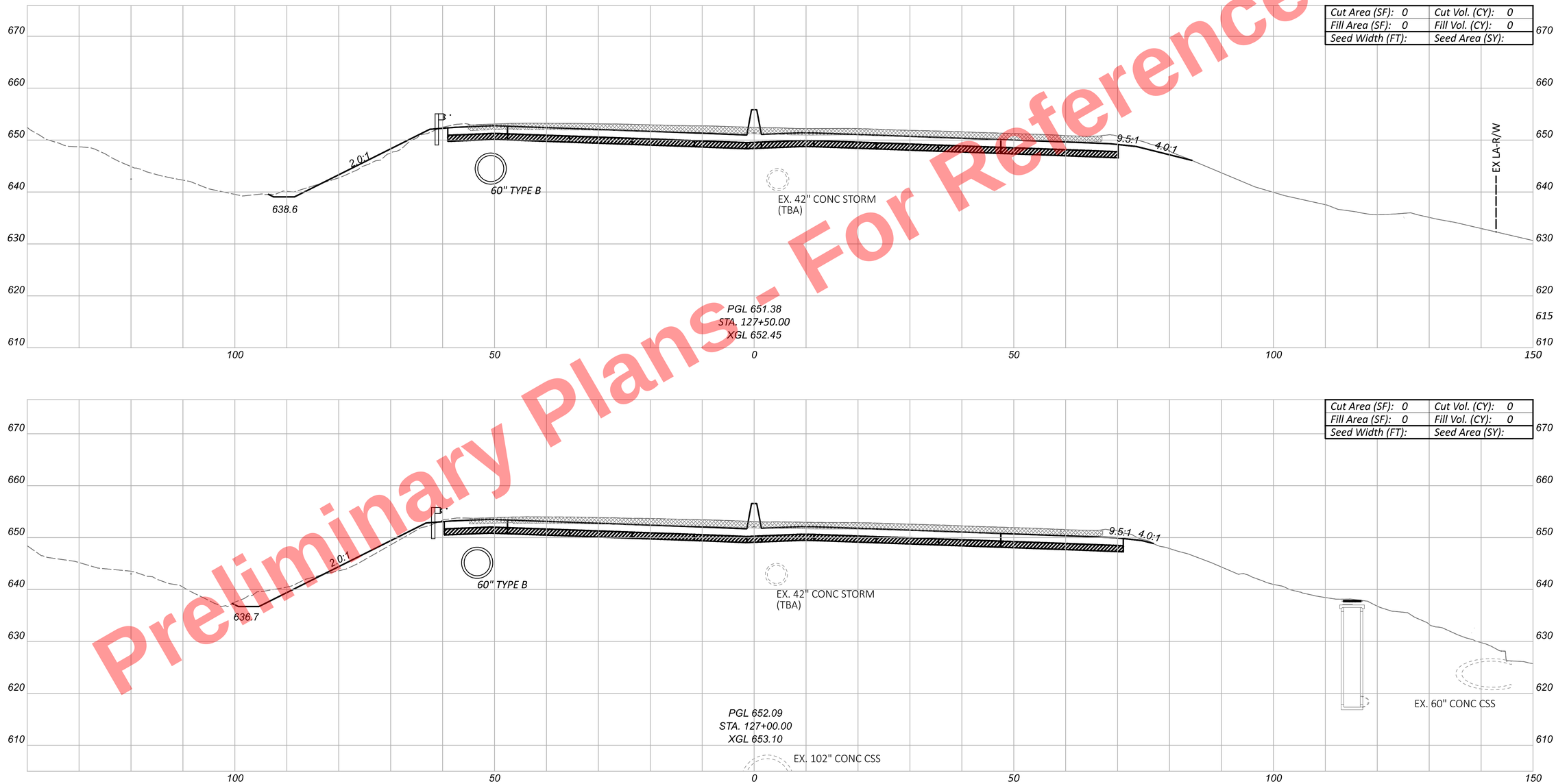
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.371 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 127+00.00 TO STA. 127+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

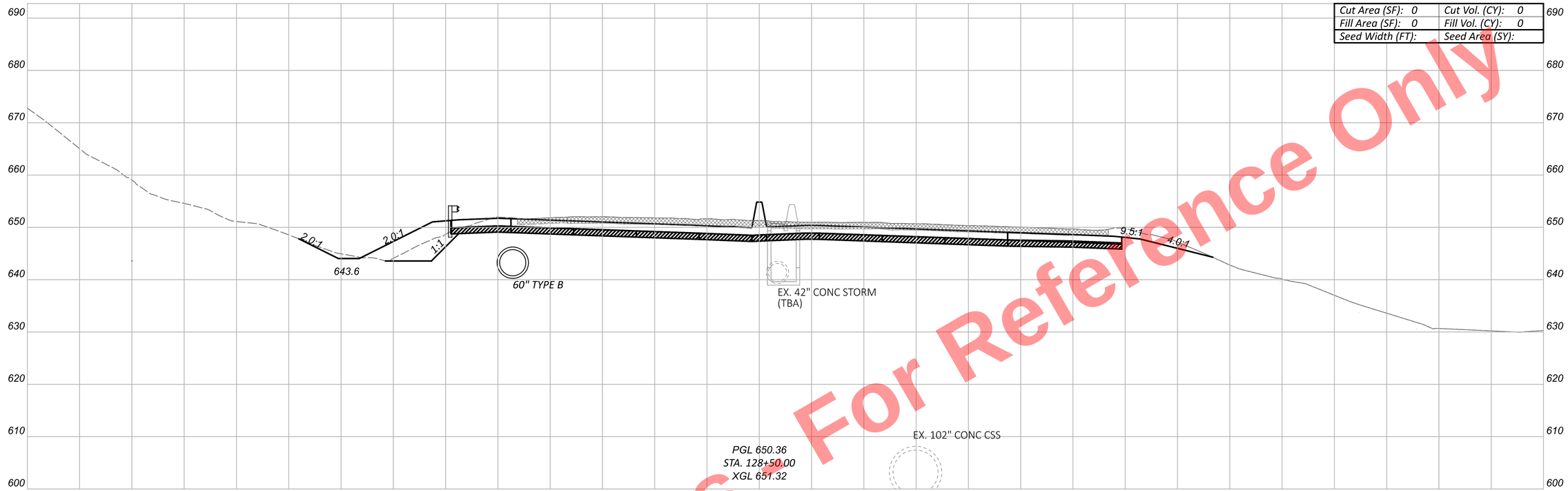
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

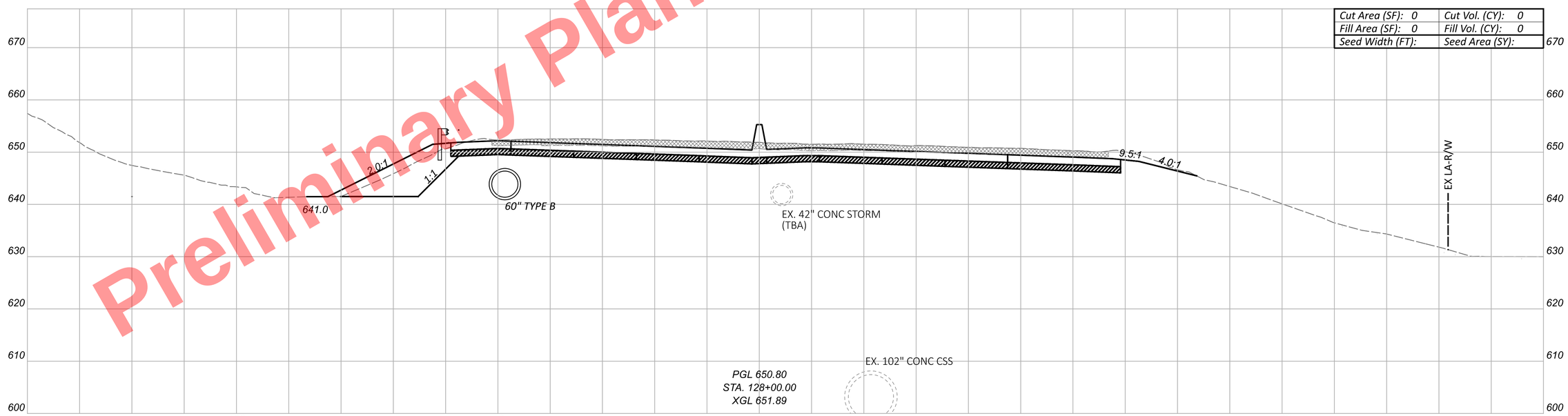
SHEET P.372 TOTAL P.1135

Preliminary Plans
For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 128+00.00 TO STA. 128+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.373 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 128+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:03 AM USER: kperkins
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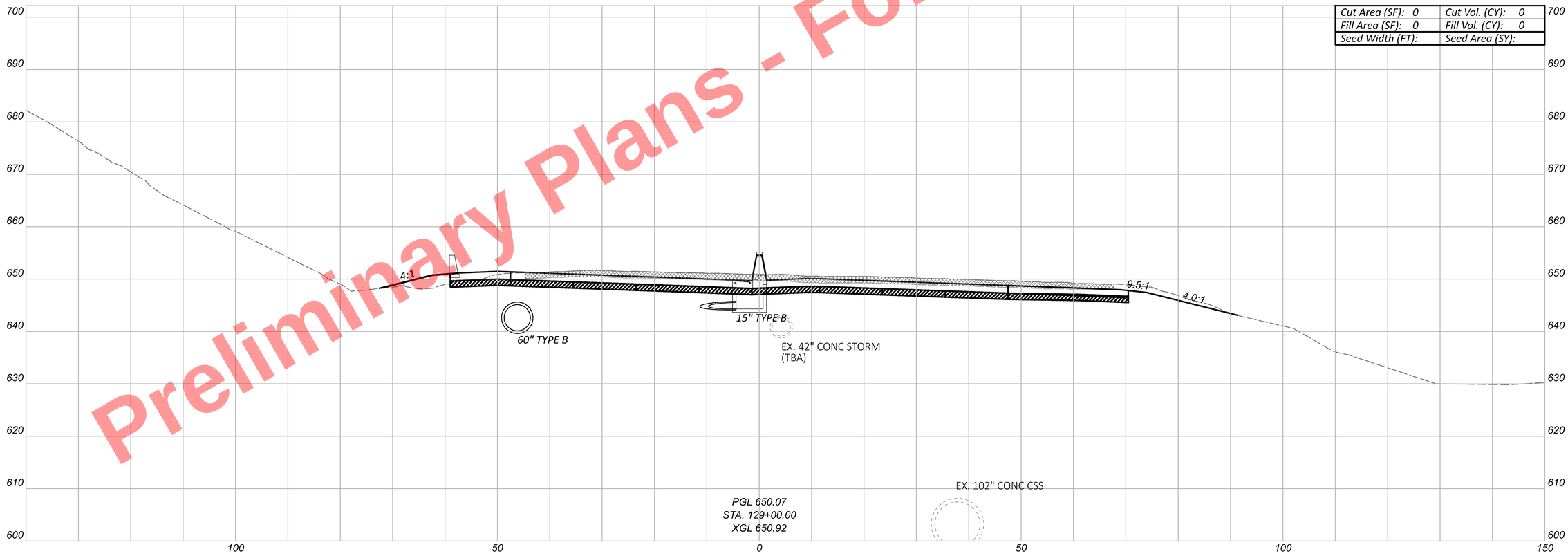
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 129+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.374 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 129+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:09 AM USER: kperkins
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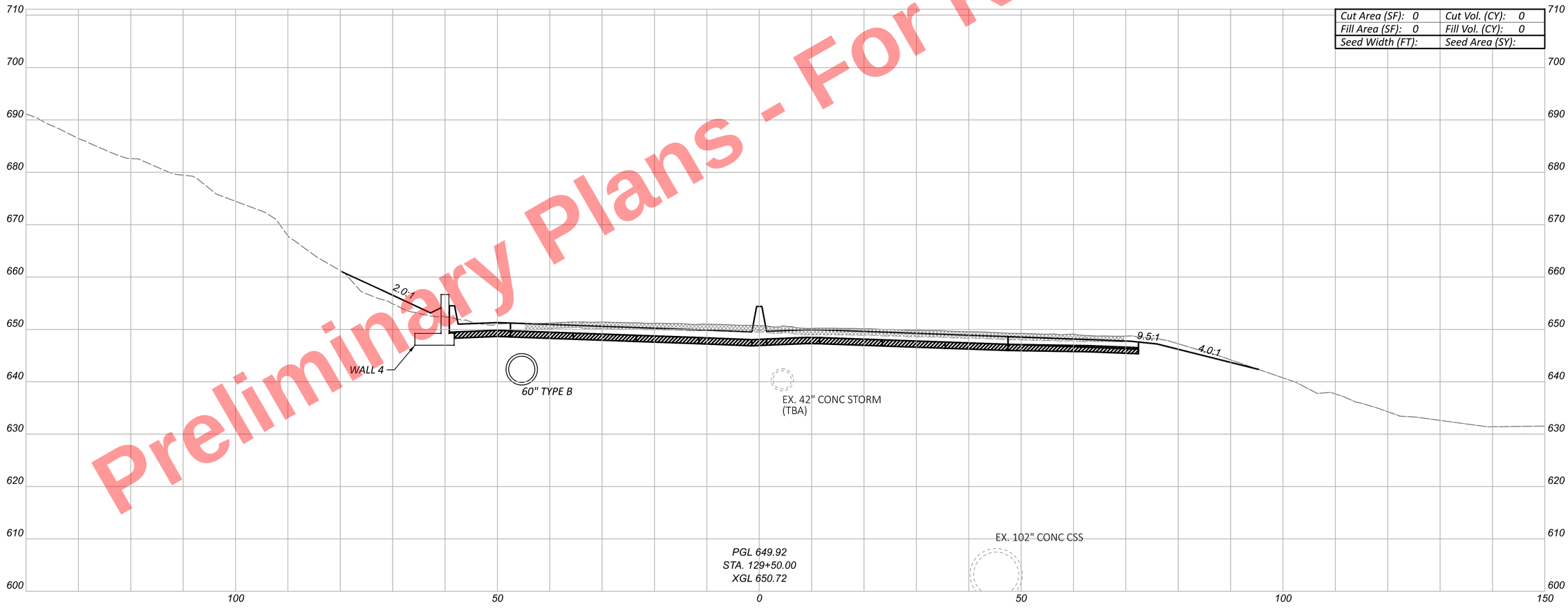
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 129+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:12 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 129+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.375 | P.1135 |

Preliminary Plans - For Reference Only

| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
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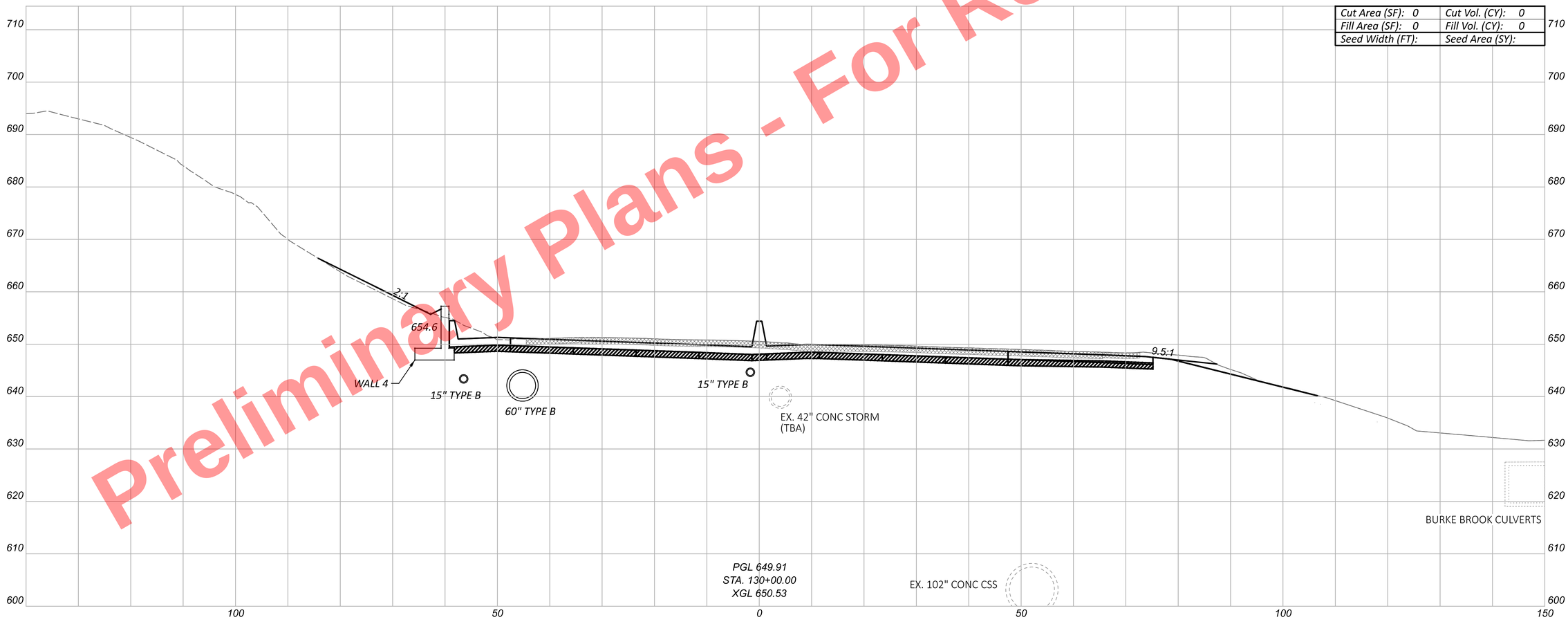


CROSS SECTIONS - I.R. 77
STA. 130+00.00

CUY-77-11.43 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.376 | P.1135 |

Preliminary Plans - For Reference Only

| | |
|---|---|
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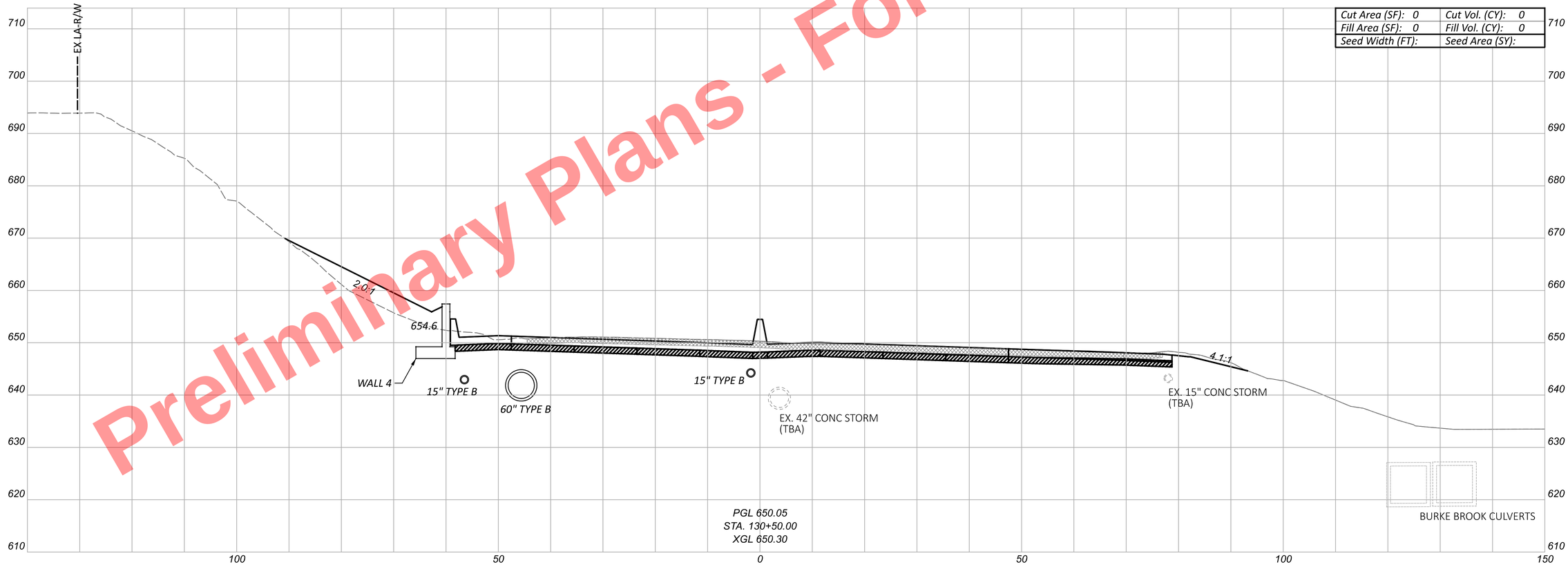
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 130+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:18 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 130+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.377 | P.1135 |

Preliminary Plans - For Reference Only

| | |
|---|---|
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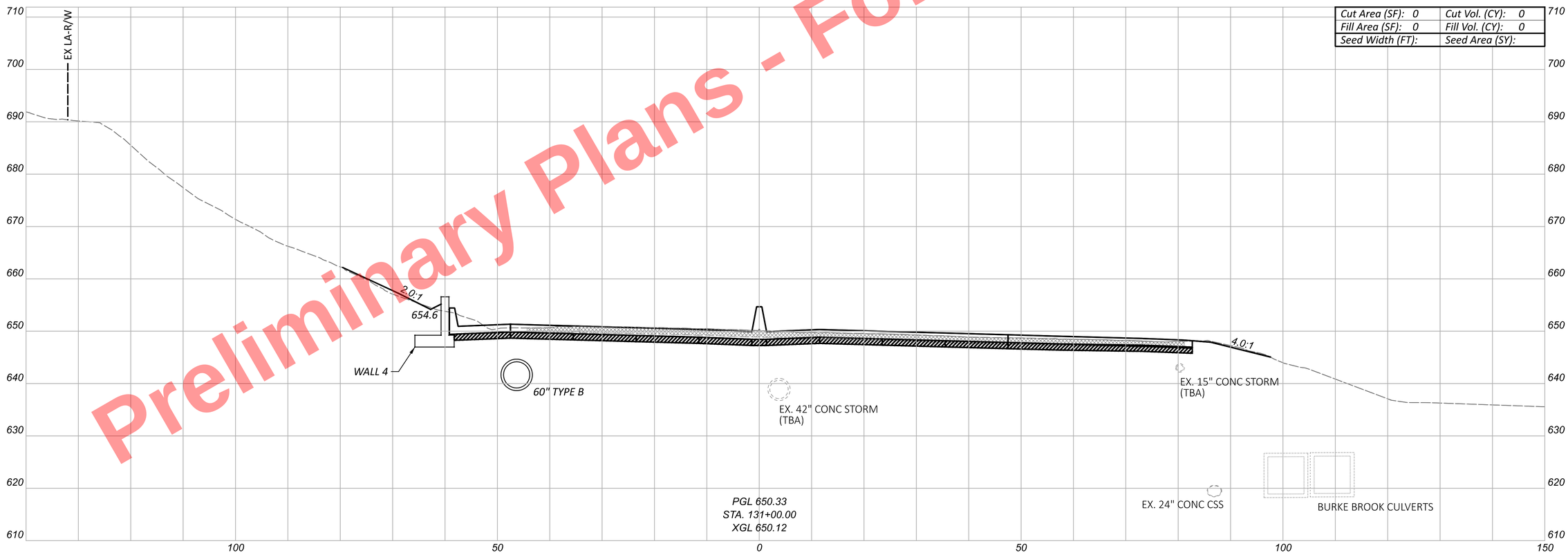
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 131+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.378 | P.1135 |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 131+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:21 AM USER: kperkins
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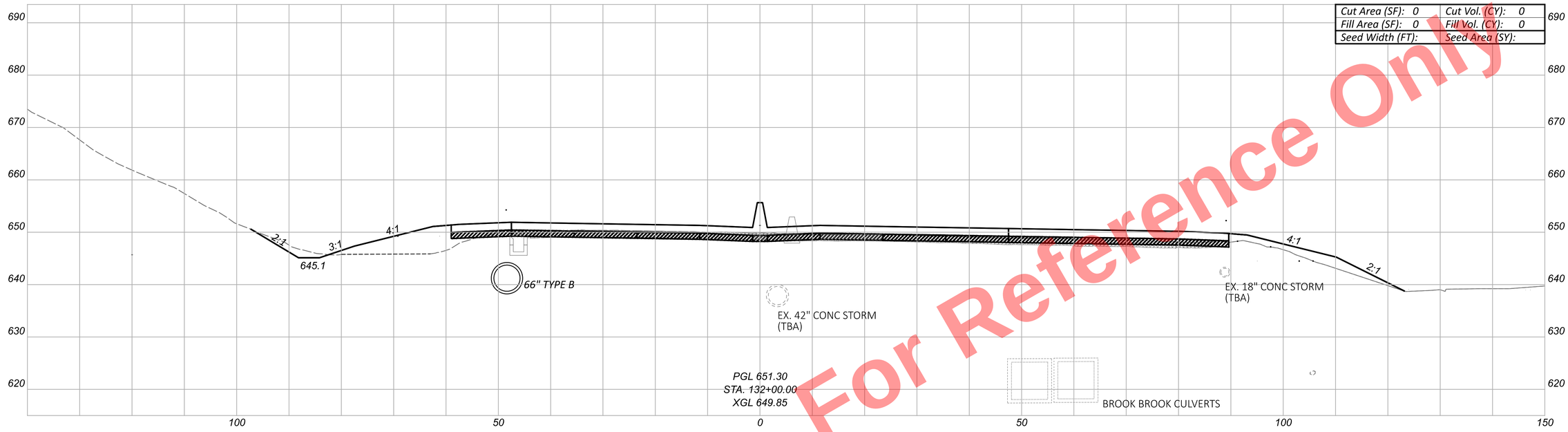
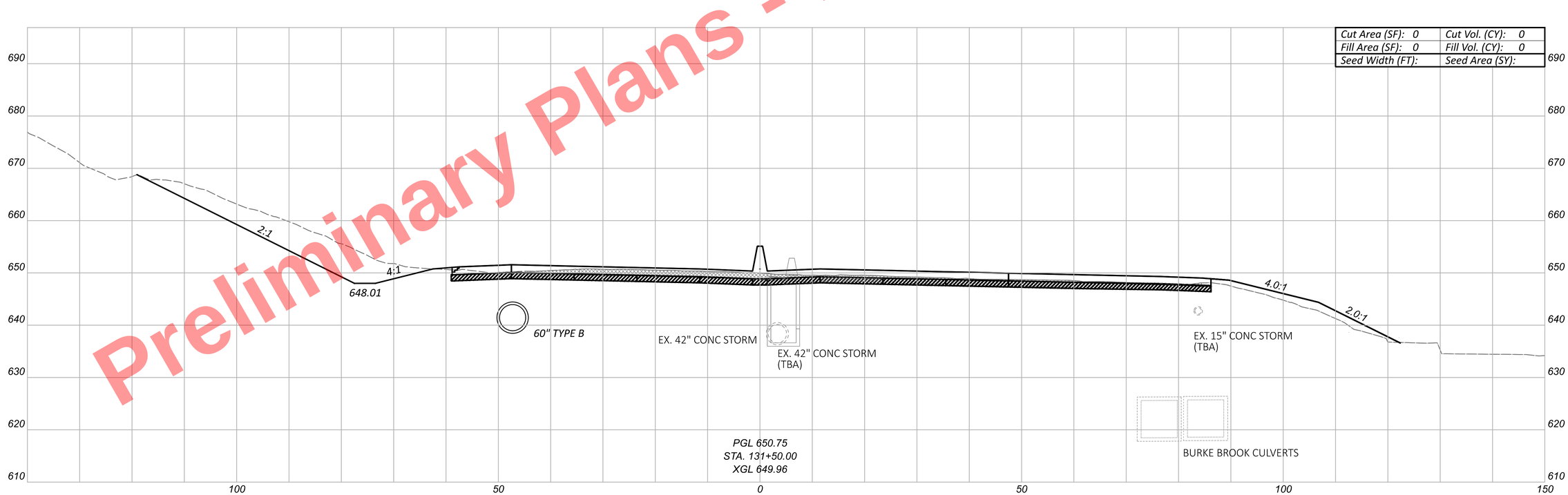
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 131+50 TO STA. 132+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

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|---|---|
| DESIGNER | EAP |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.379 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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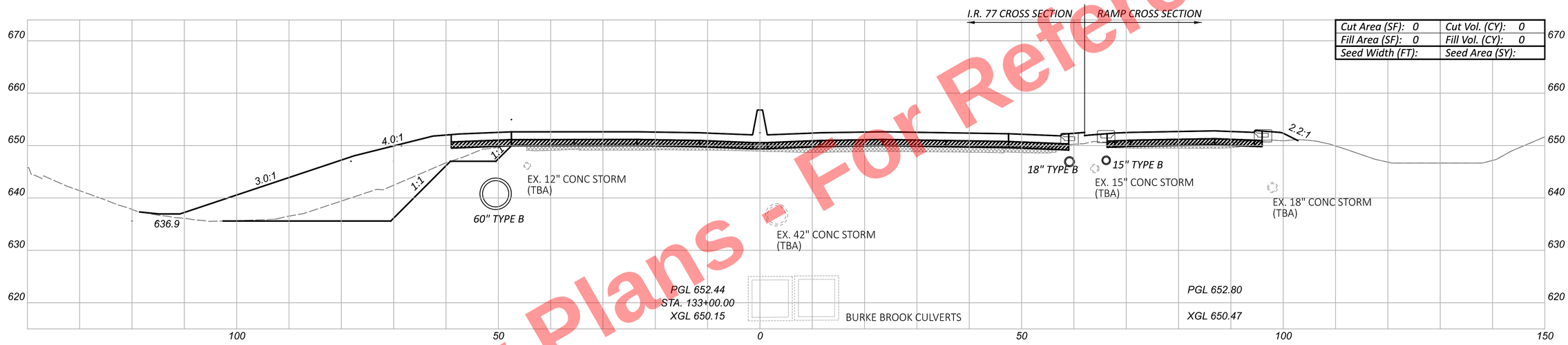
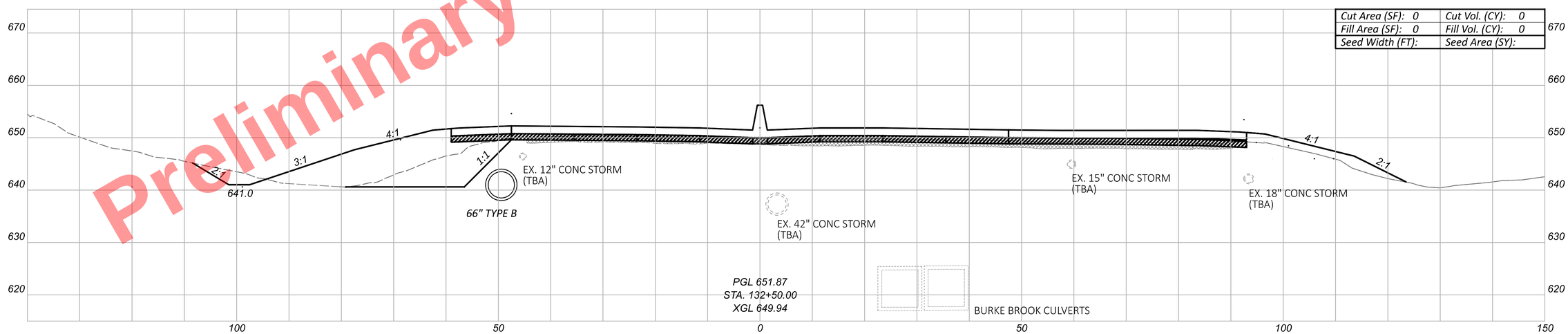
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 132+50.00 TO STA. 133+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.380 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 132+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:31 AM USER: kperkins
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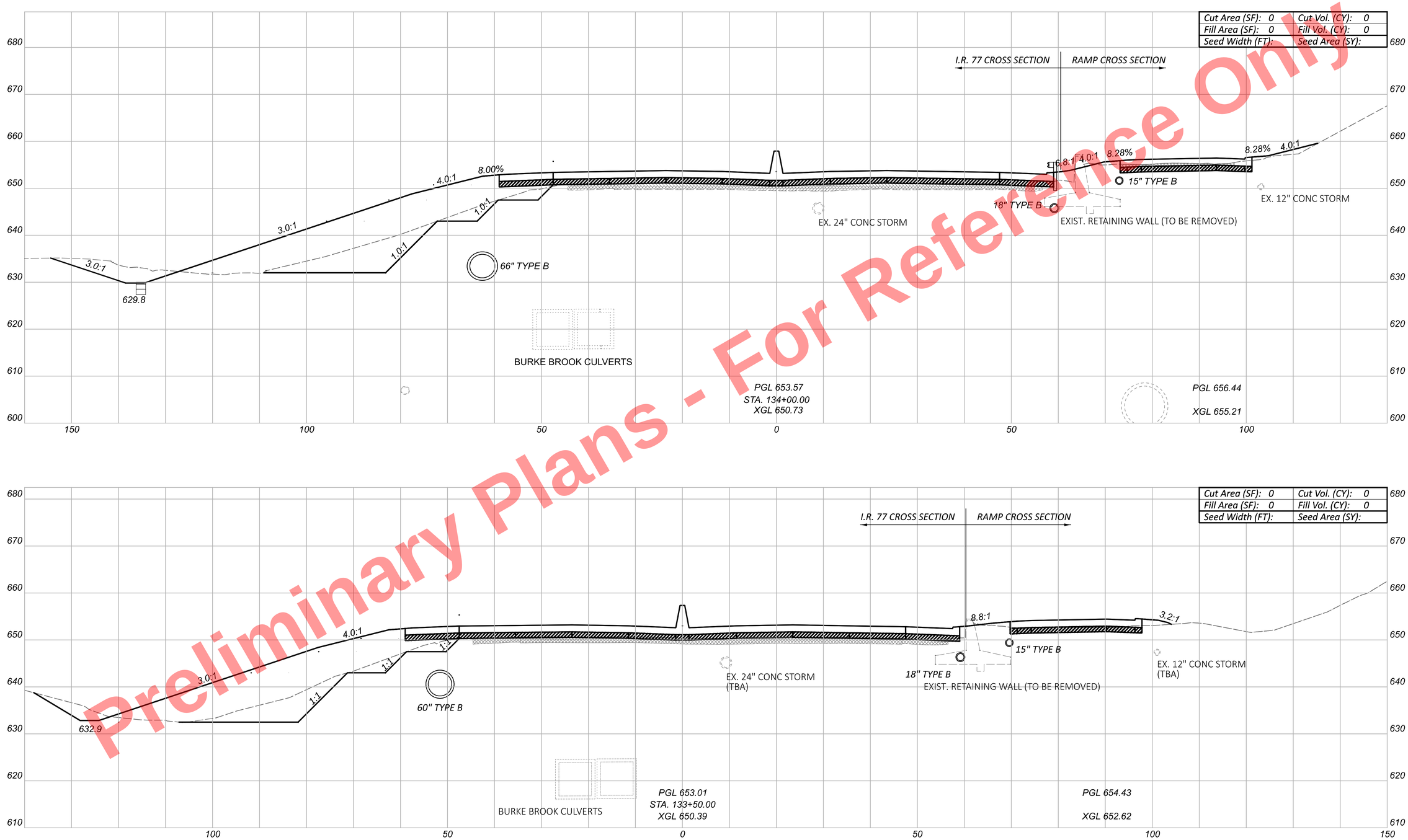
Preliminary Plans - For Reference Only

# CROSS SECTIONS - I.R. 77
# STA. 133+50.00 TO STA. 134+00.00




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.381 | TOTAL P.1135

CUY-77-11.43 - PART 1

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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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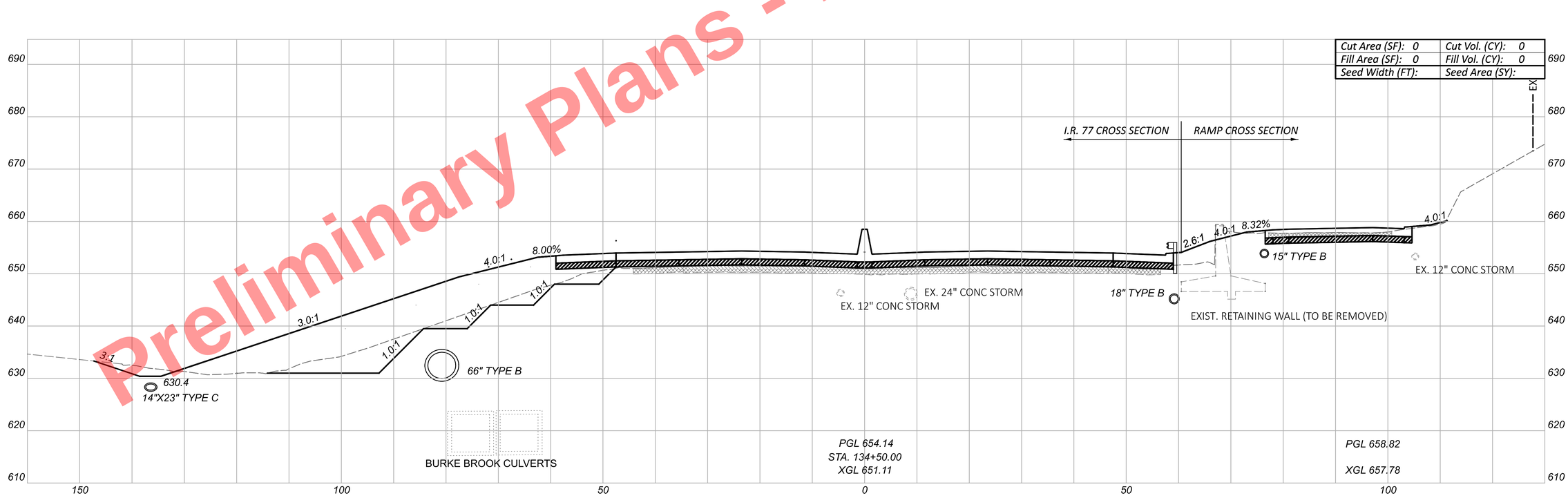
CROSS SECTIONS - I.R. 77
STA. 134+50.00




| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.382 | TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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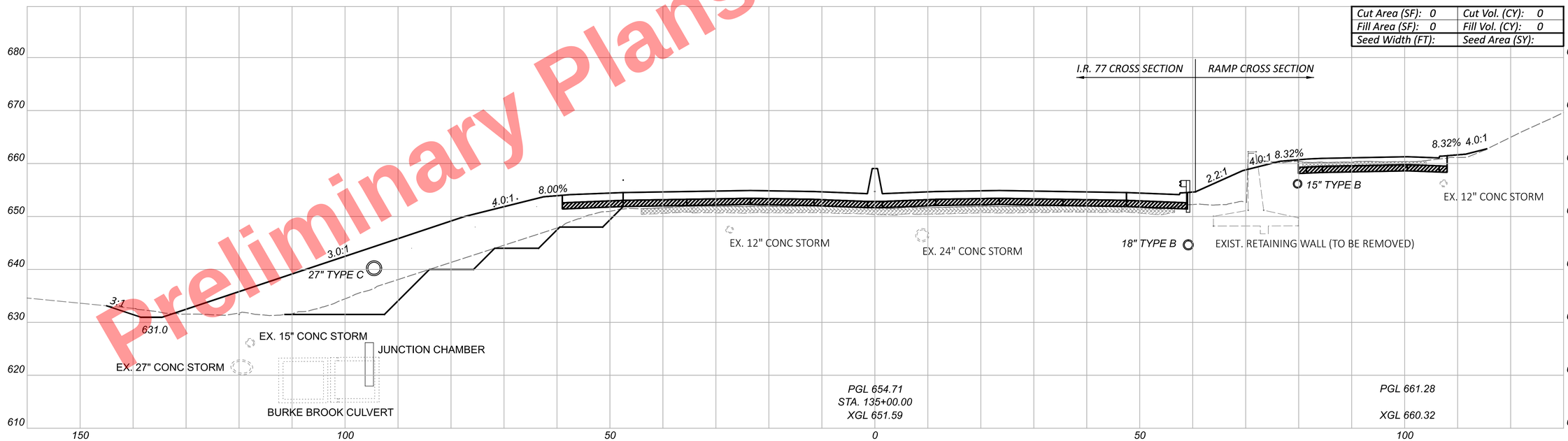
CROSS SECTIONS - I.R. 77
STA. 135+00.00




DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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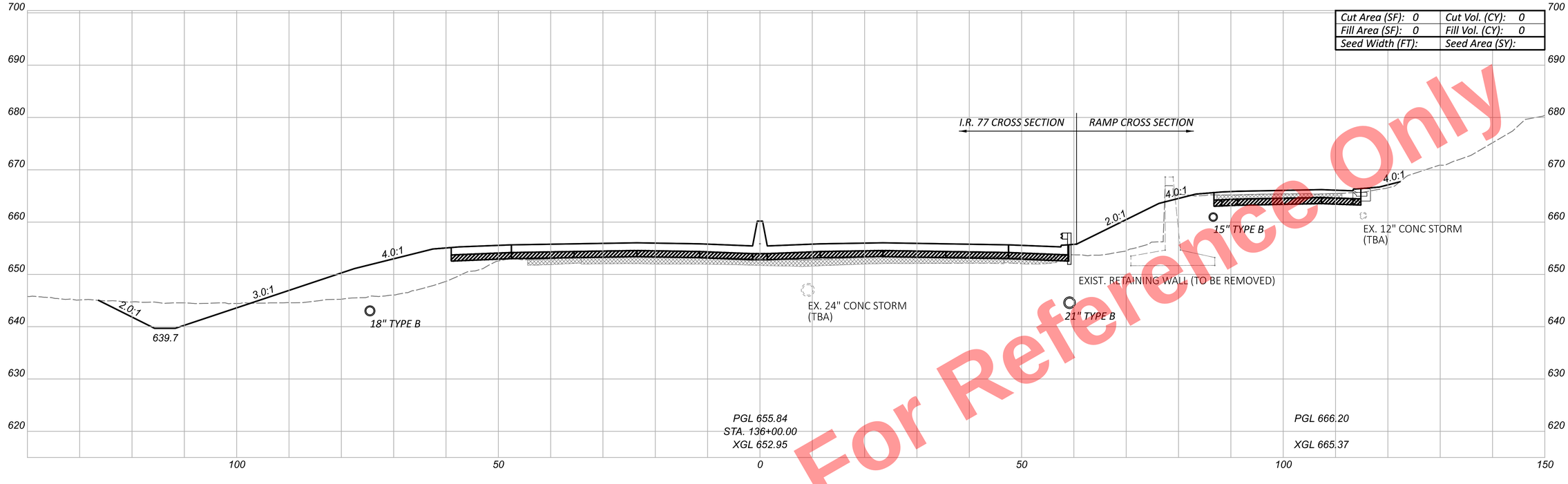
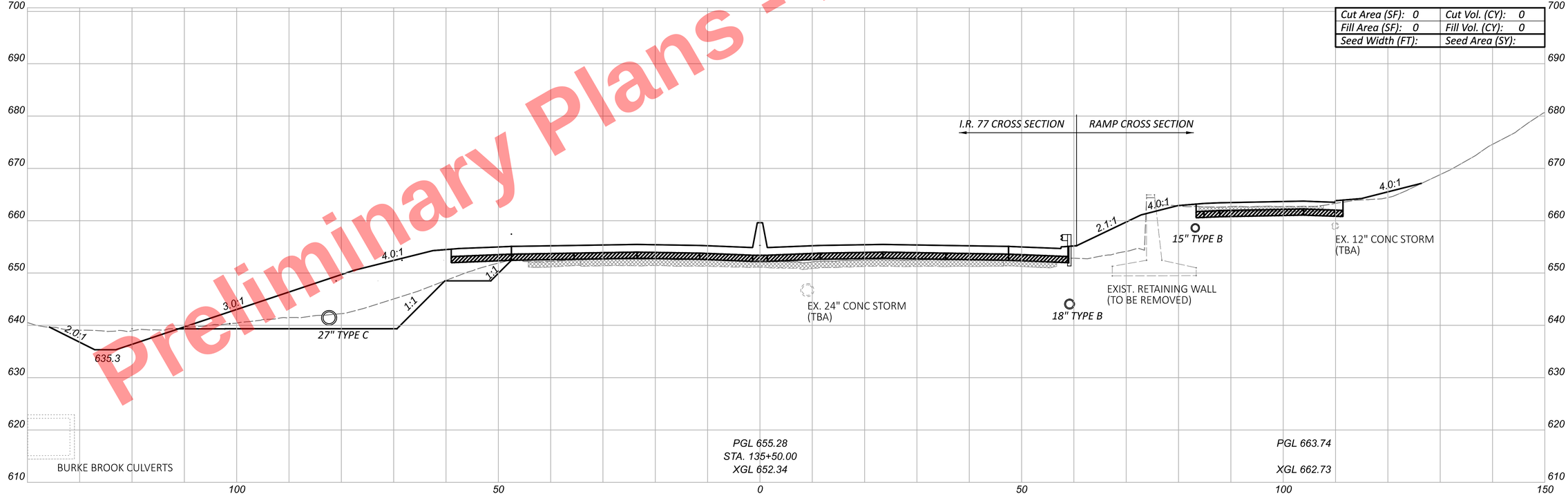
SHEET P.383 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 135+50.00 TO STA. 136+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

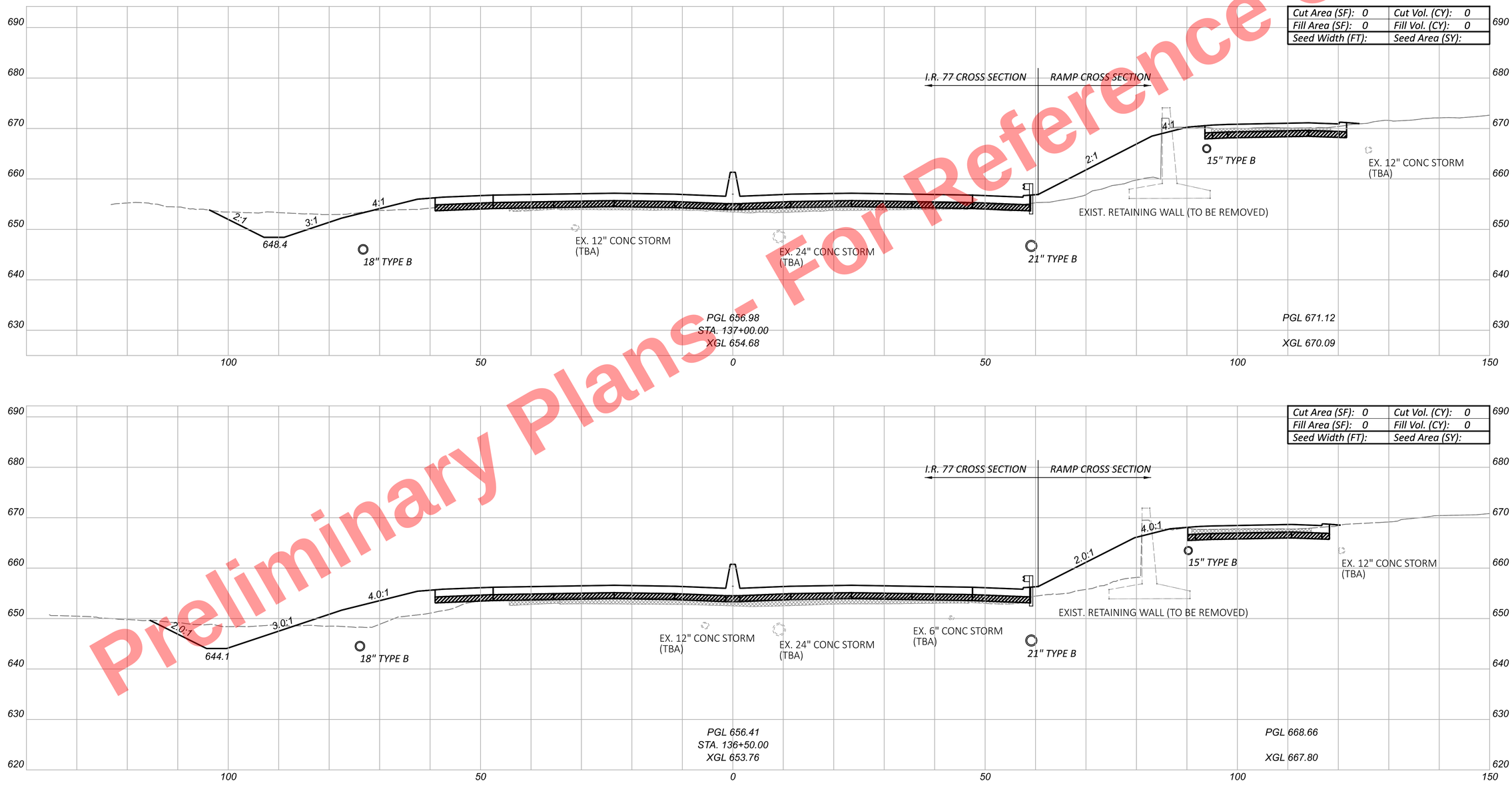
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.384 | P.1135 |

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 136+50.00 TO STA. 137+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.385 TOTAL P.1135

MODEL: CLP_I077 - 136+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:15:52 AM USER: kperkins
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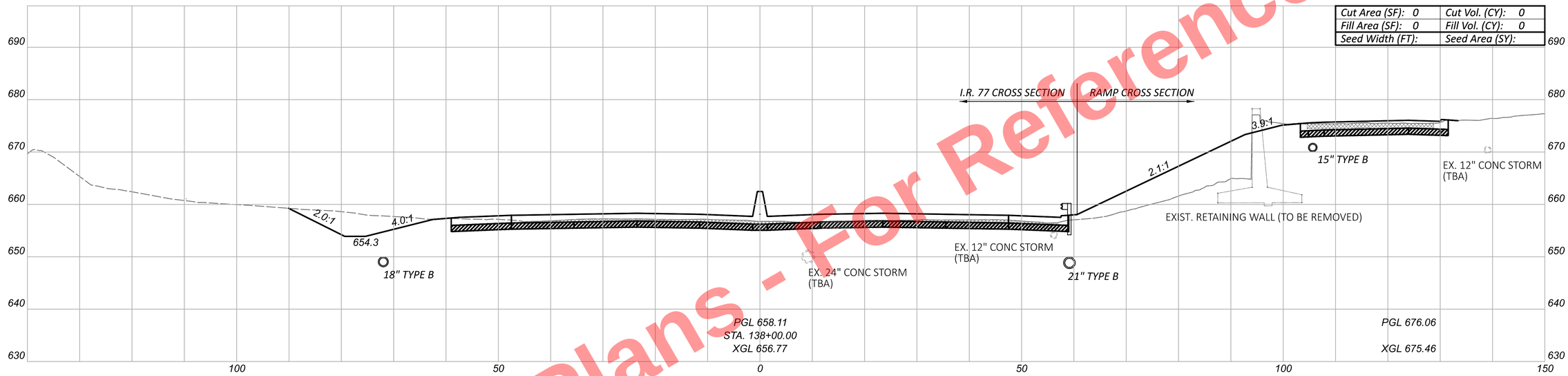
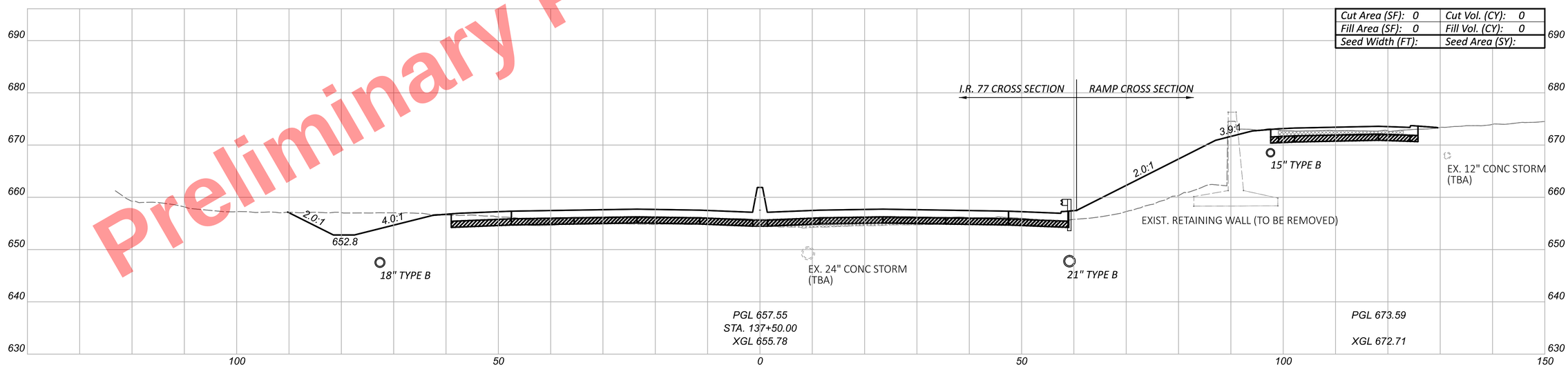
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 137+50.00 TO STA. 138+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.386 | TOTAL P.1135

CUY-77-11.43 - PART 1

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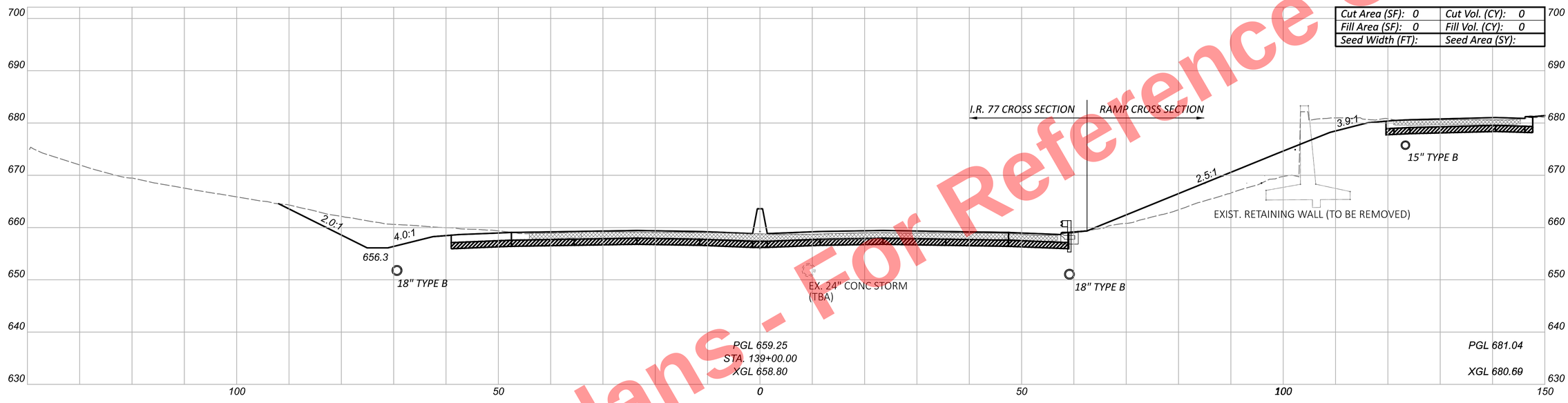
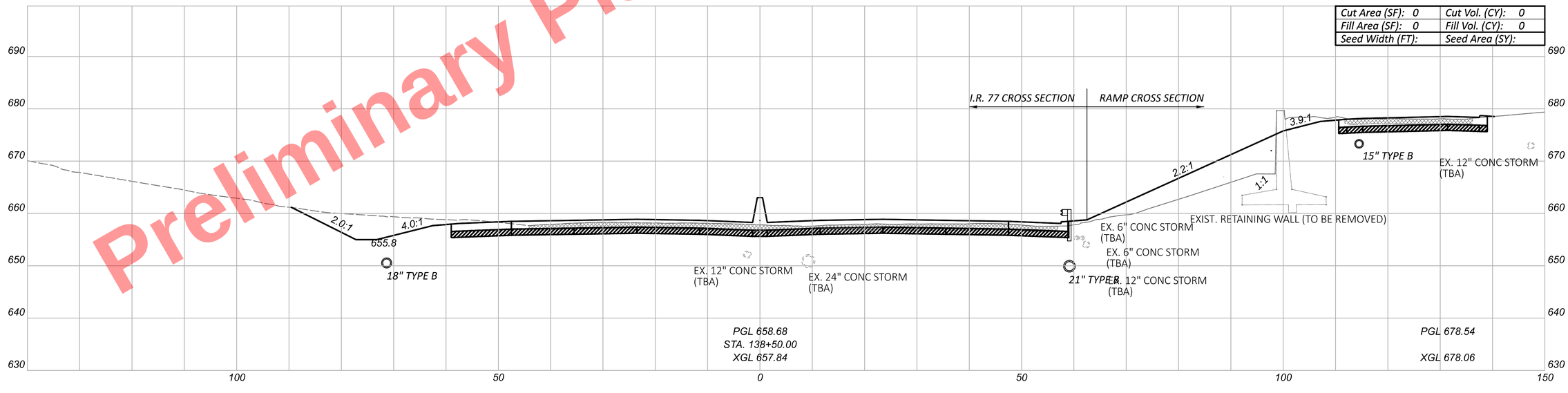
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 138+50.00 TO STA. 139+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.387 TOTAL P.1135

CUY-77-11.43 - PART 1

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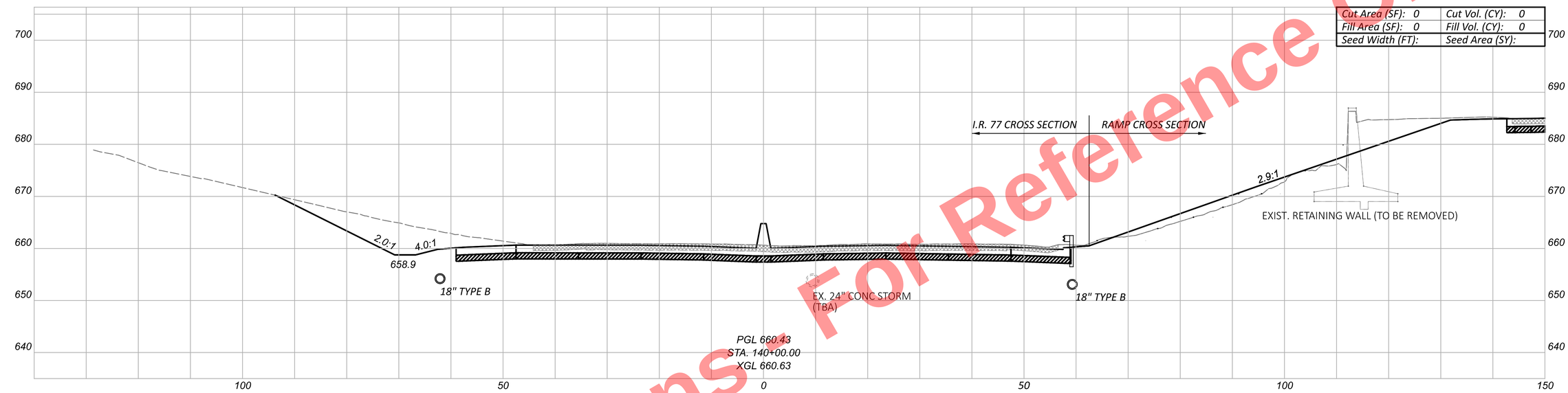
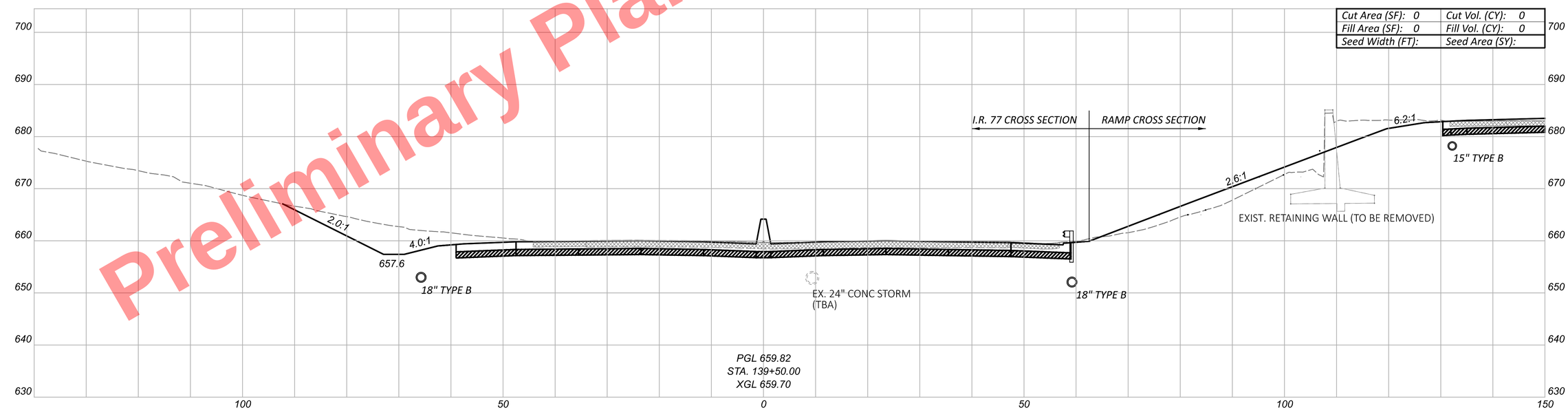
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 139+50.00 TO STA. 140+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

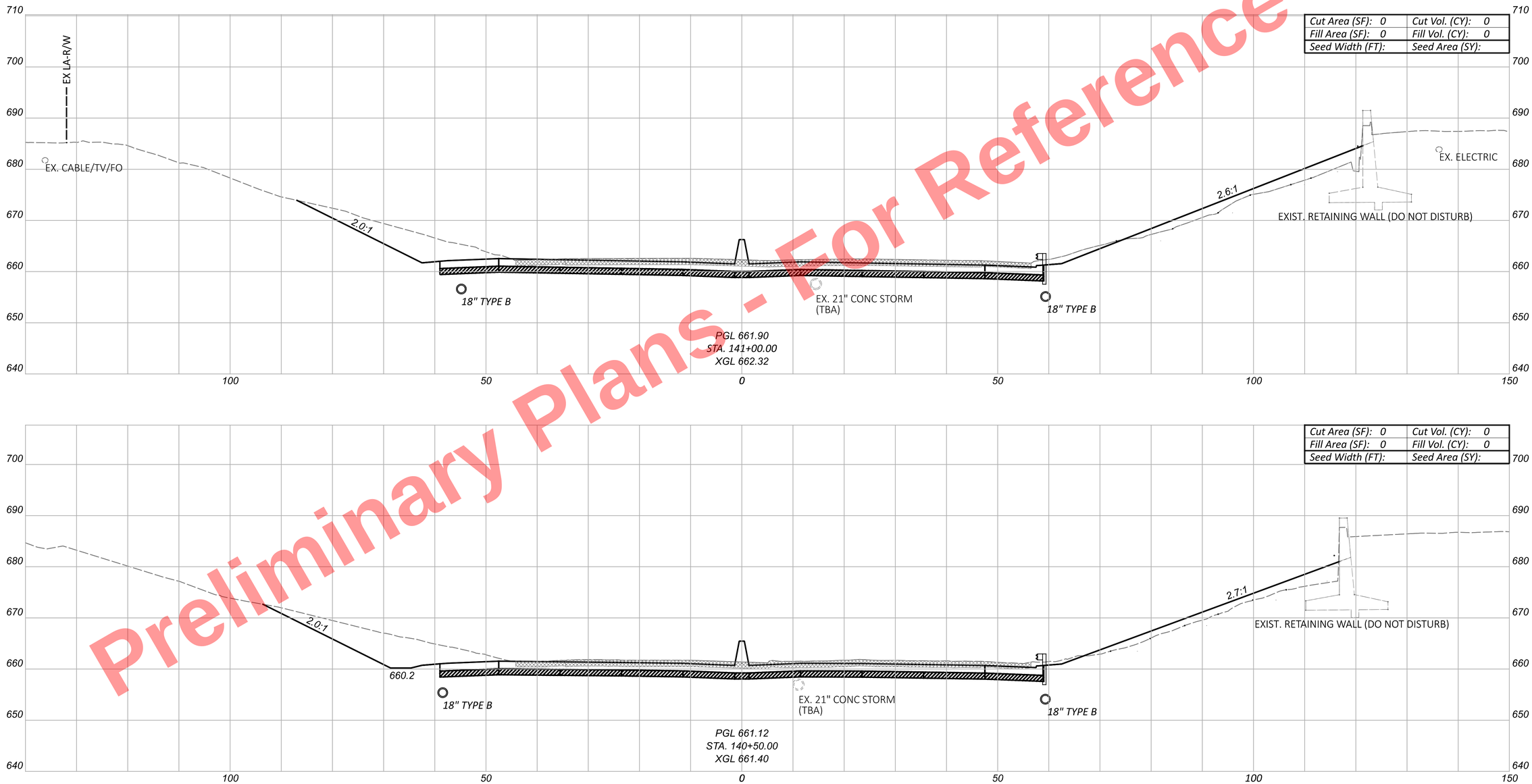
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.388 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 140+50.00 TO STA. 141+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.389 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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CUY-77-11.43 - PART 1

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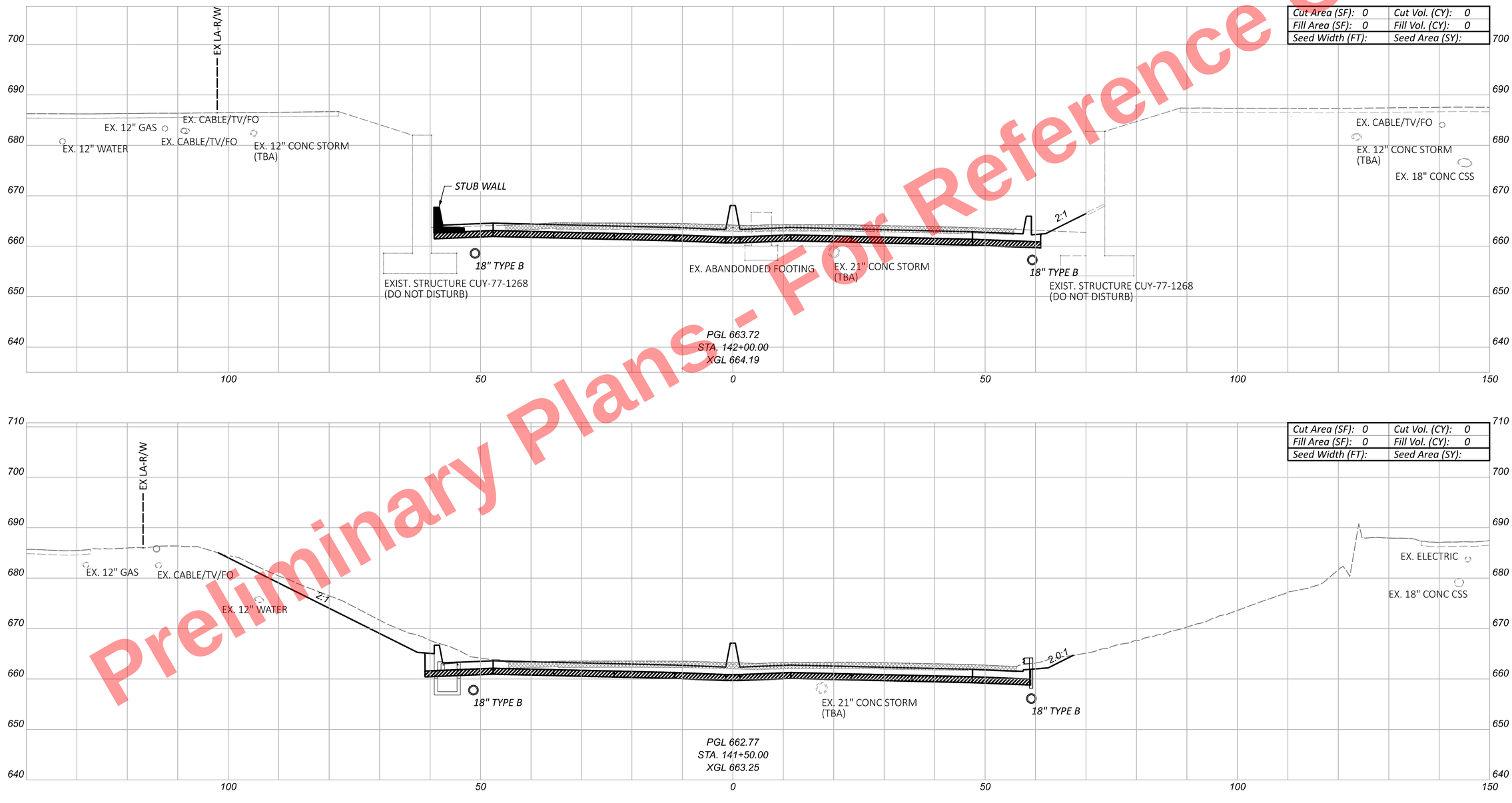
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 141+50.00 TO STA. 142+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

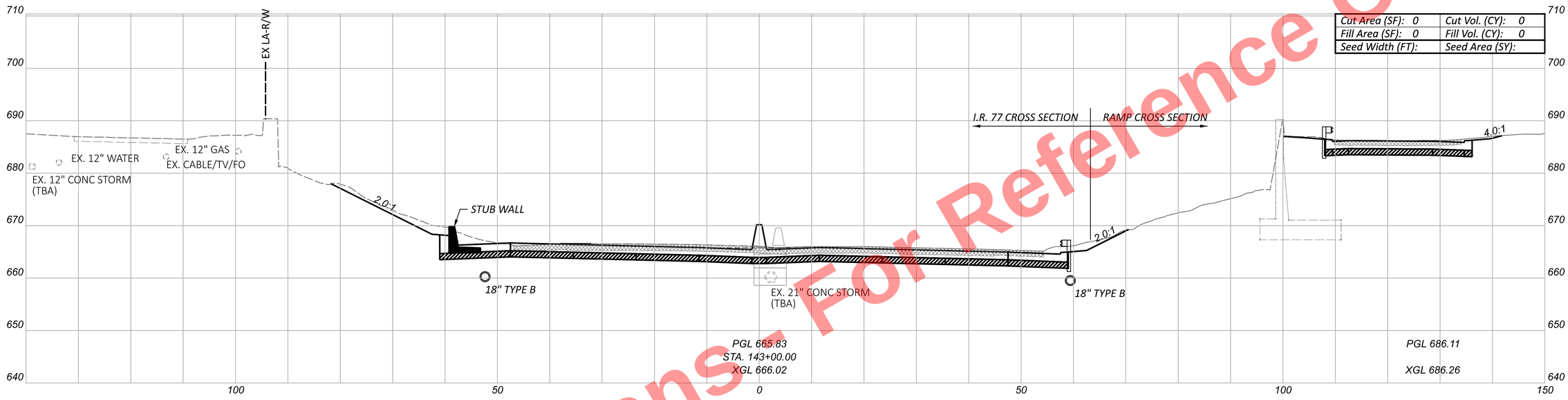
DESIGNER
EAP

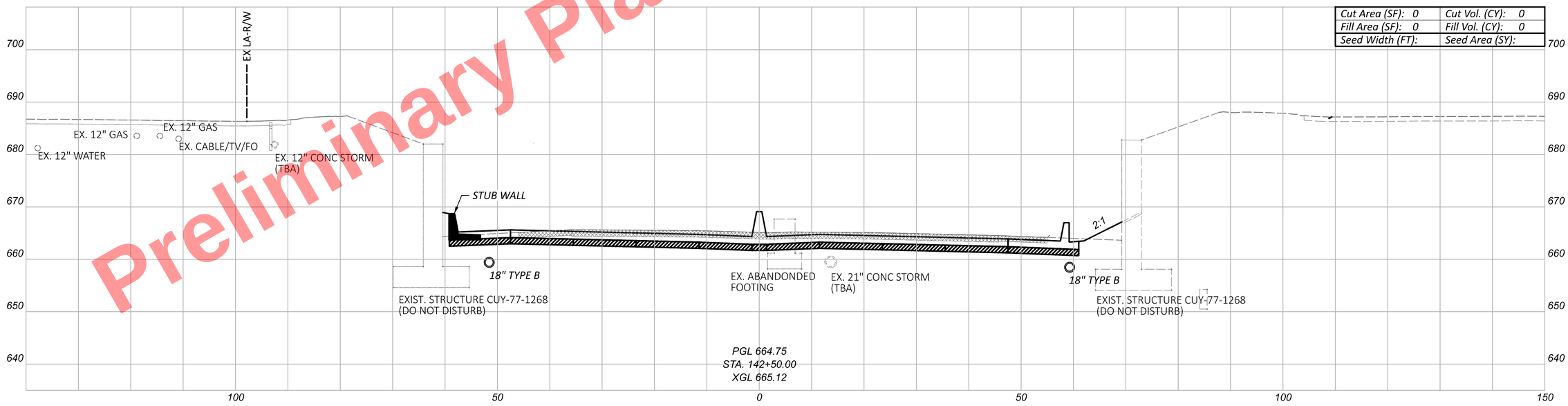
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.390 | P.1135 |

Preliminary Plans - Not For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 142+50.00 TO STA. 143+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

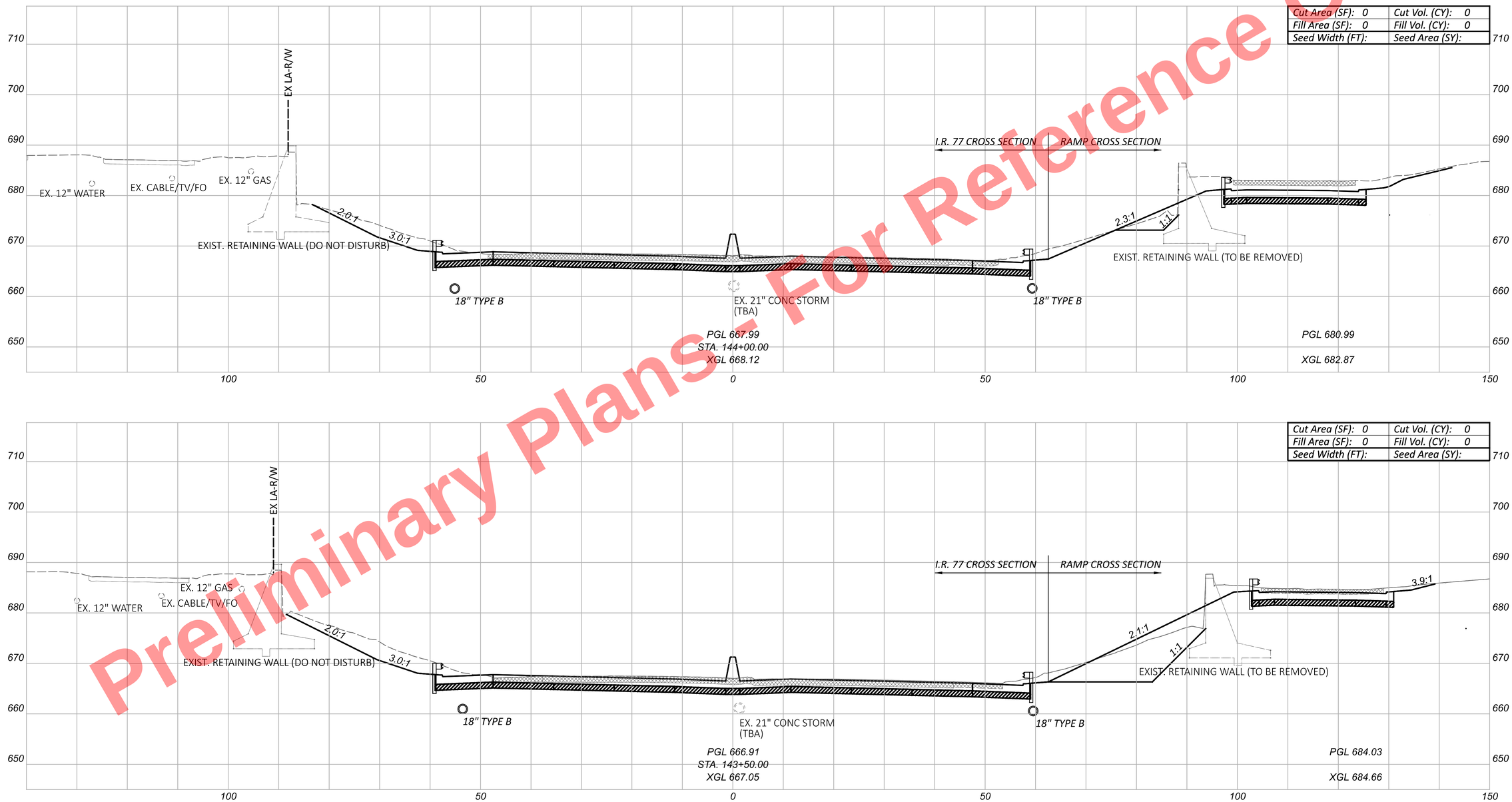
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.391 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 143+50.00 TO STA. 144+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

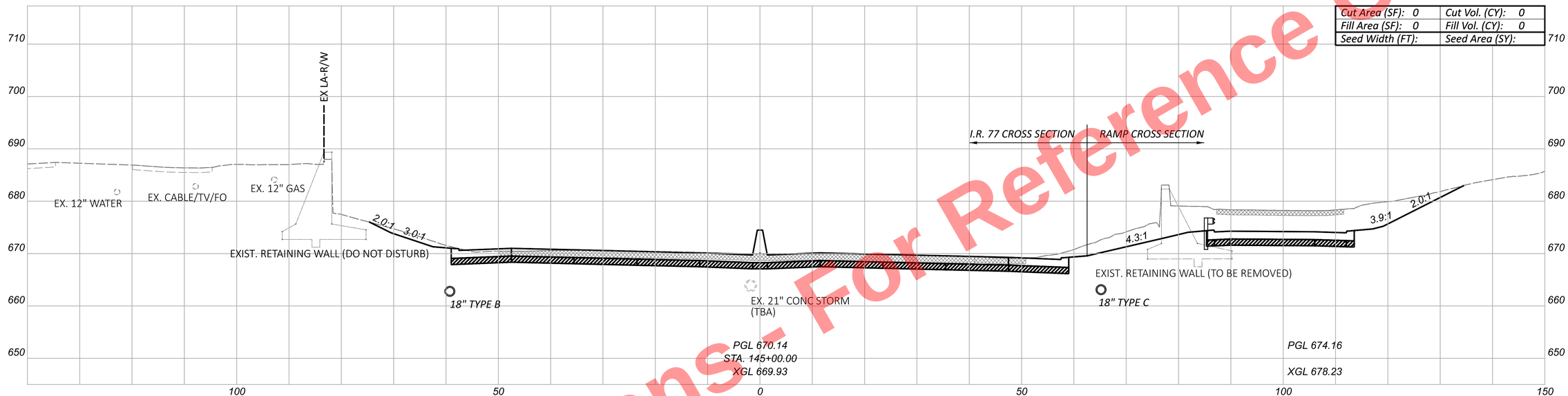
DESIGNER
EAP

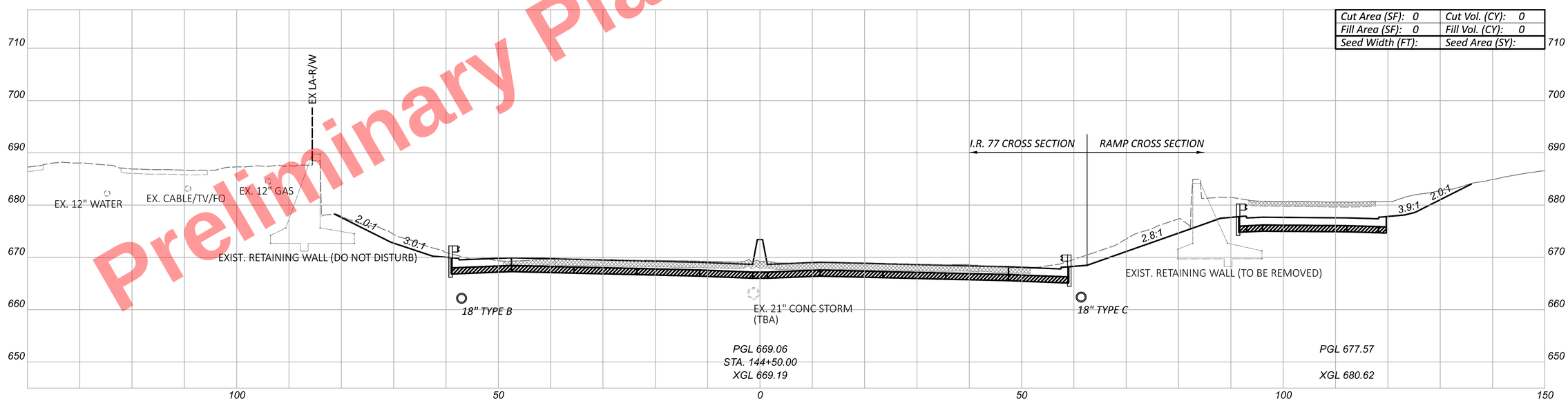
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.392
TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 144+50.00 TO STA. 145+00.00

DESIGN AGENCY
HNTB

| DESIGNER | REVIEWER |
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| EAP | MTR 04/01/22 |

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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| SHEET | TOTAL |
|---|---|
| P.393 | P.1135 |

Preliminary Plans - For Reference Only

| | |
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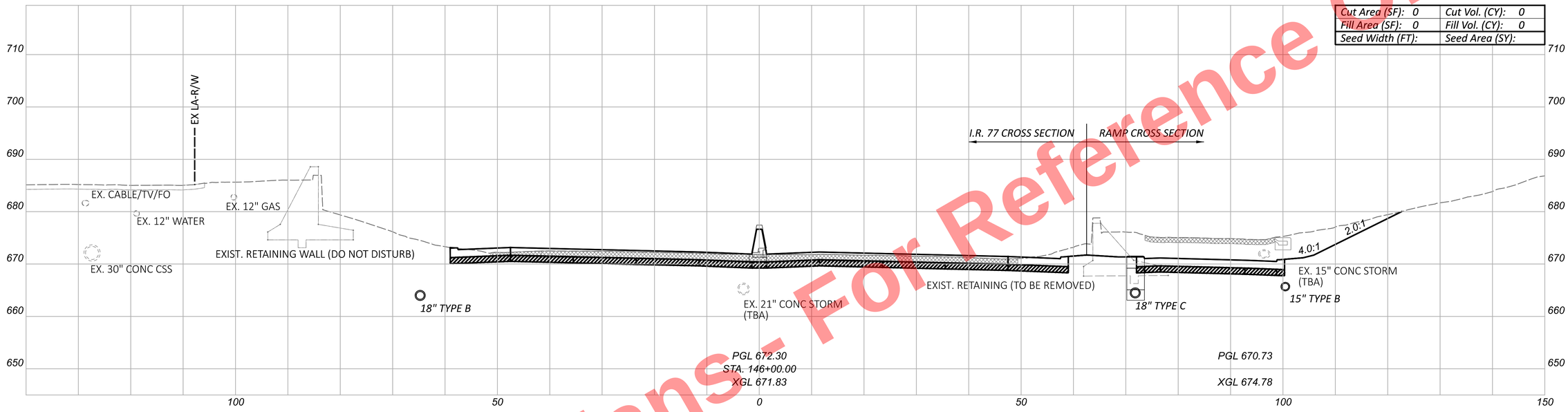
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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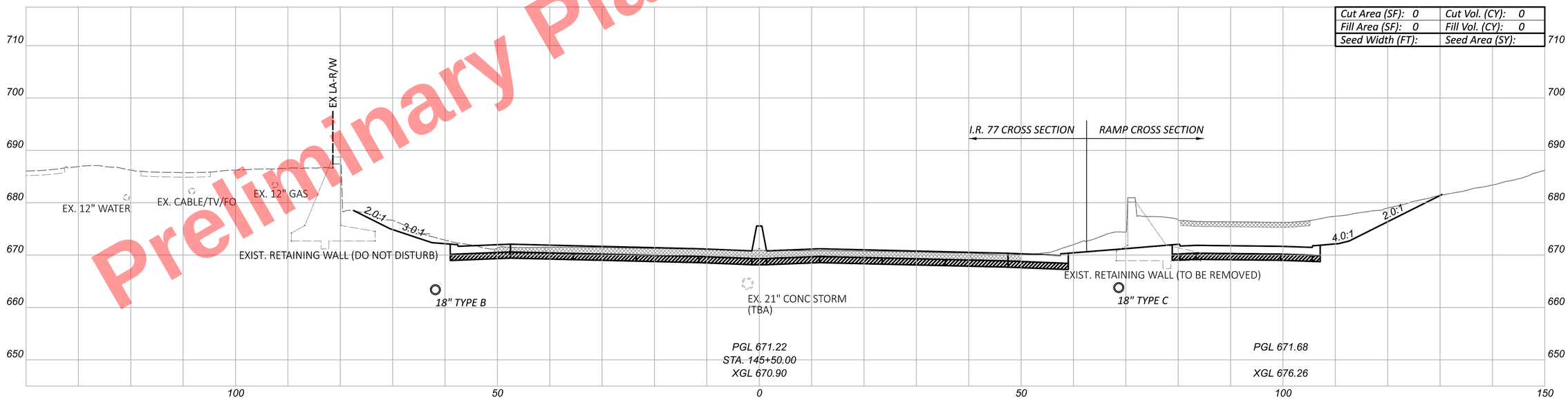


# CROSS SECTIONS - I.R. 77
# STA. 145+50.00 TO STA. 146+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.394 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 145+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:16:45 AM USER: kperkins
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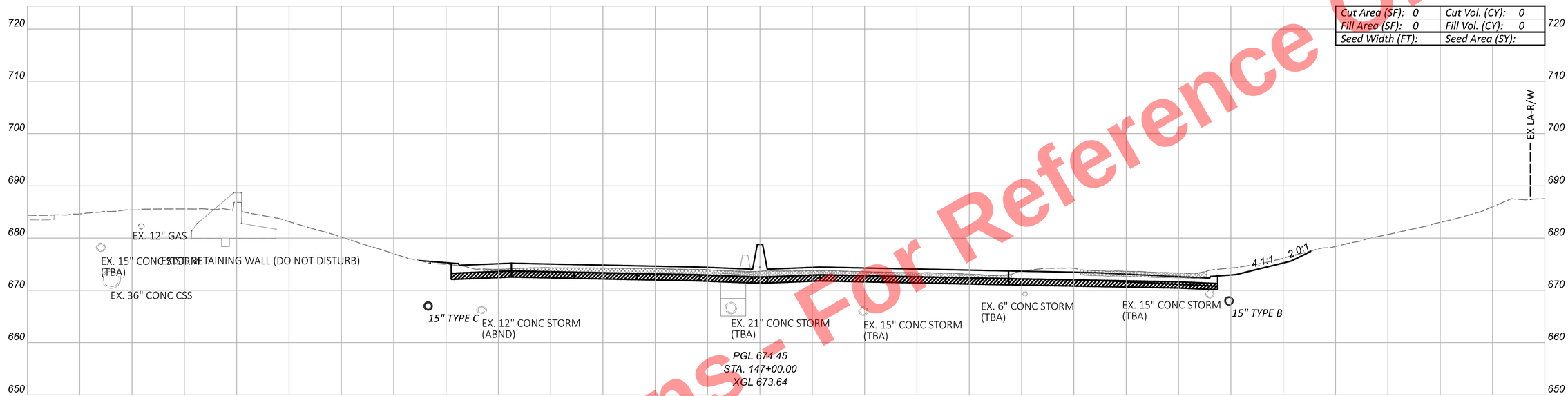
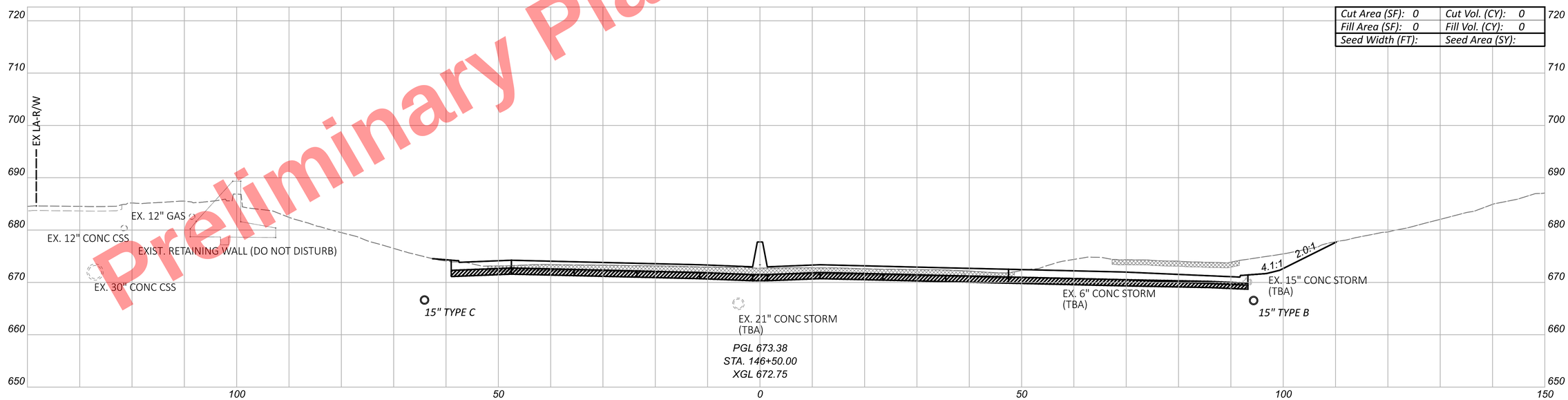
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
STA. 146+50.00 TO STA. 147+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

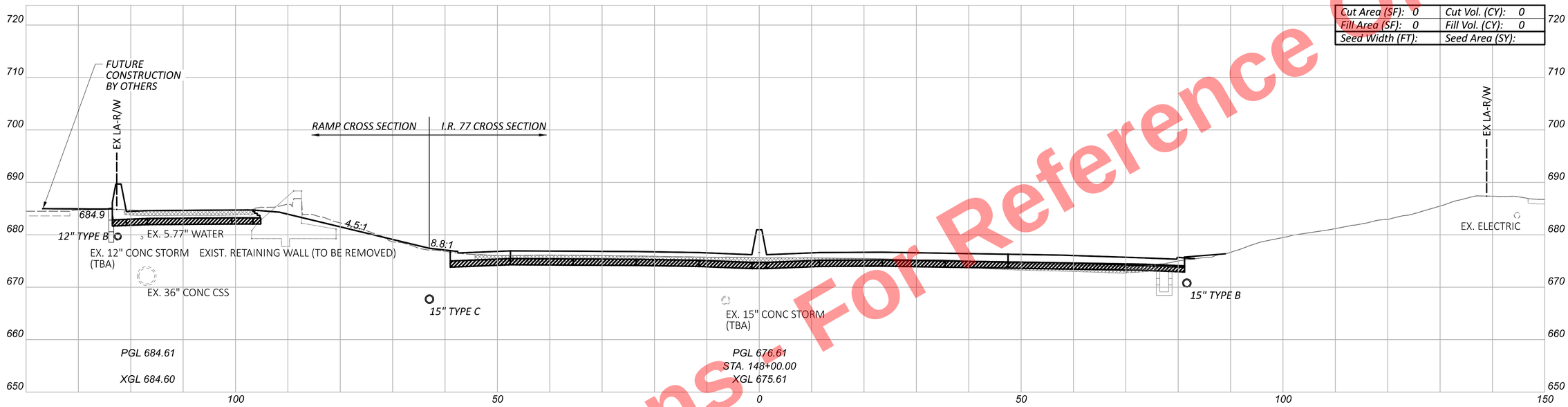
REVIEWER
MTR 04/01/22

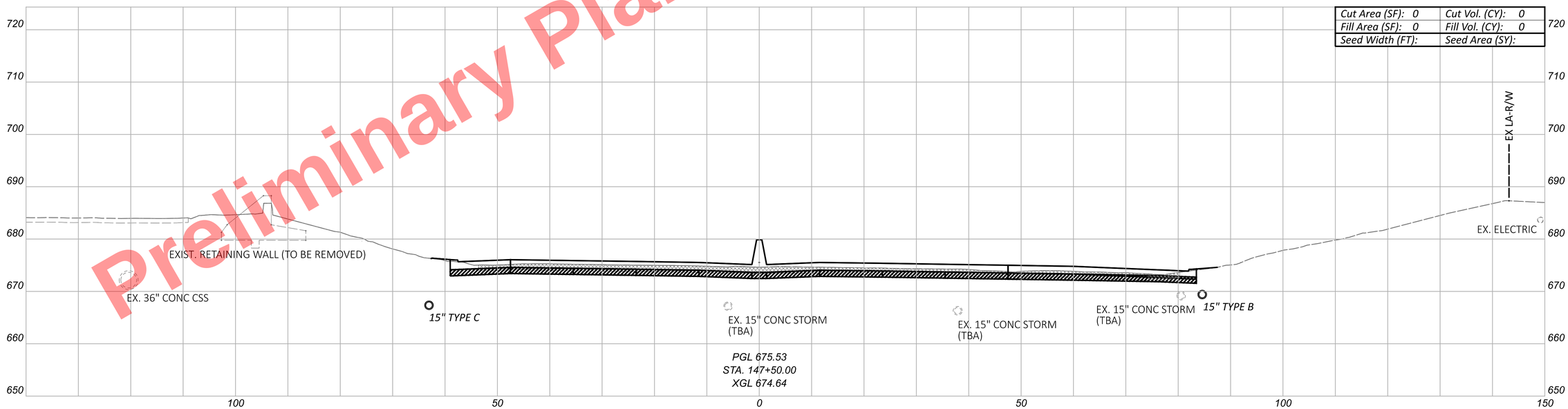
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.395 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 147+50.00 TO STA. 148+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.396 TOTAL P.1135

CUY-77-11.43 - PART 1

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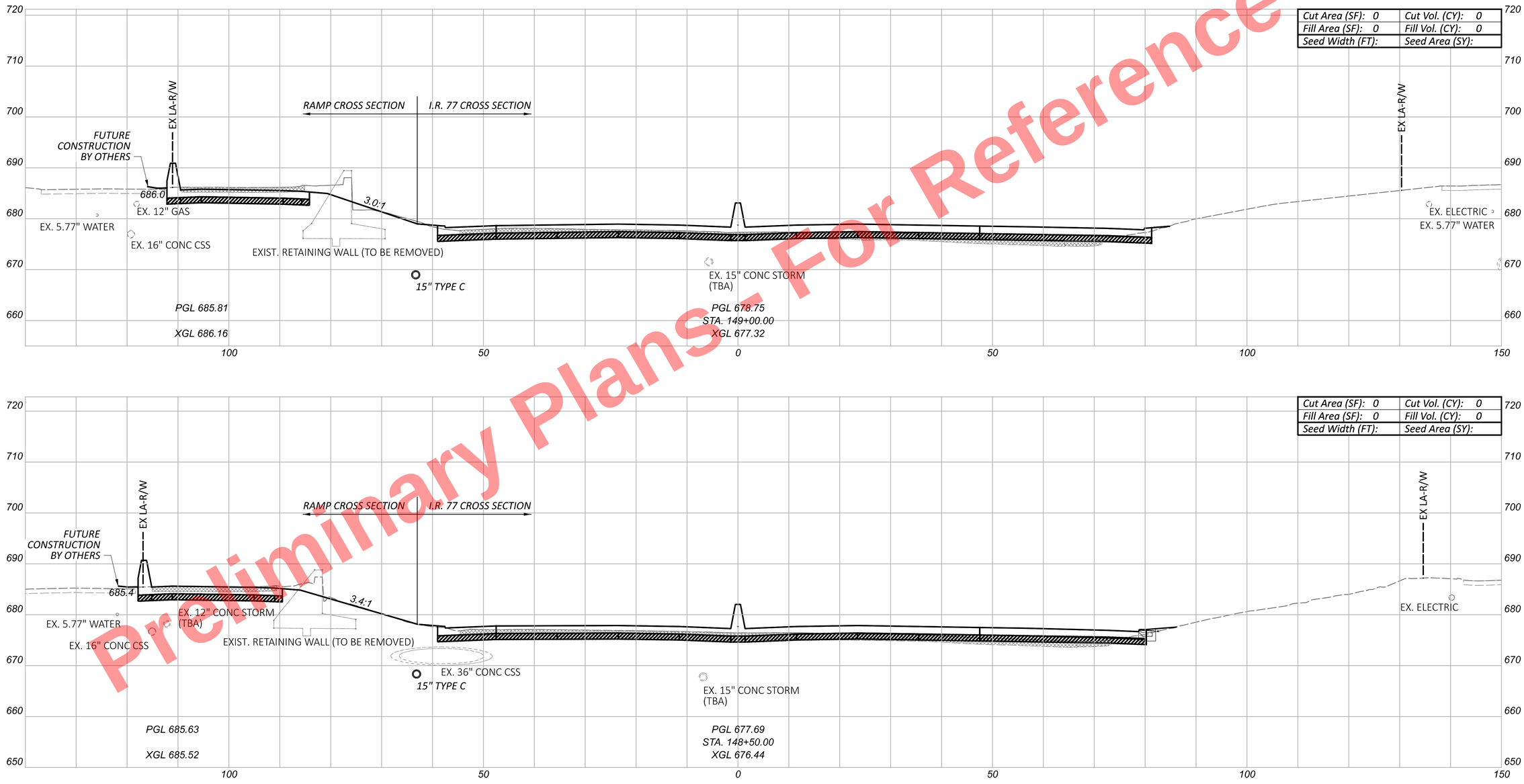
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 148+50.00 TO STA. 149+00.00

CUY-77-11.43 - PART 1

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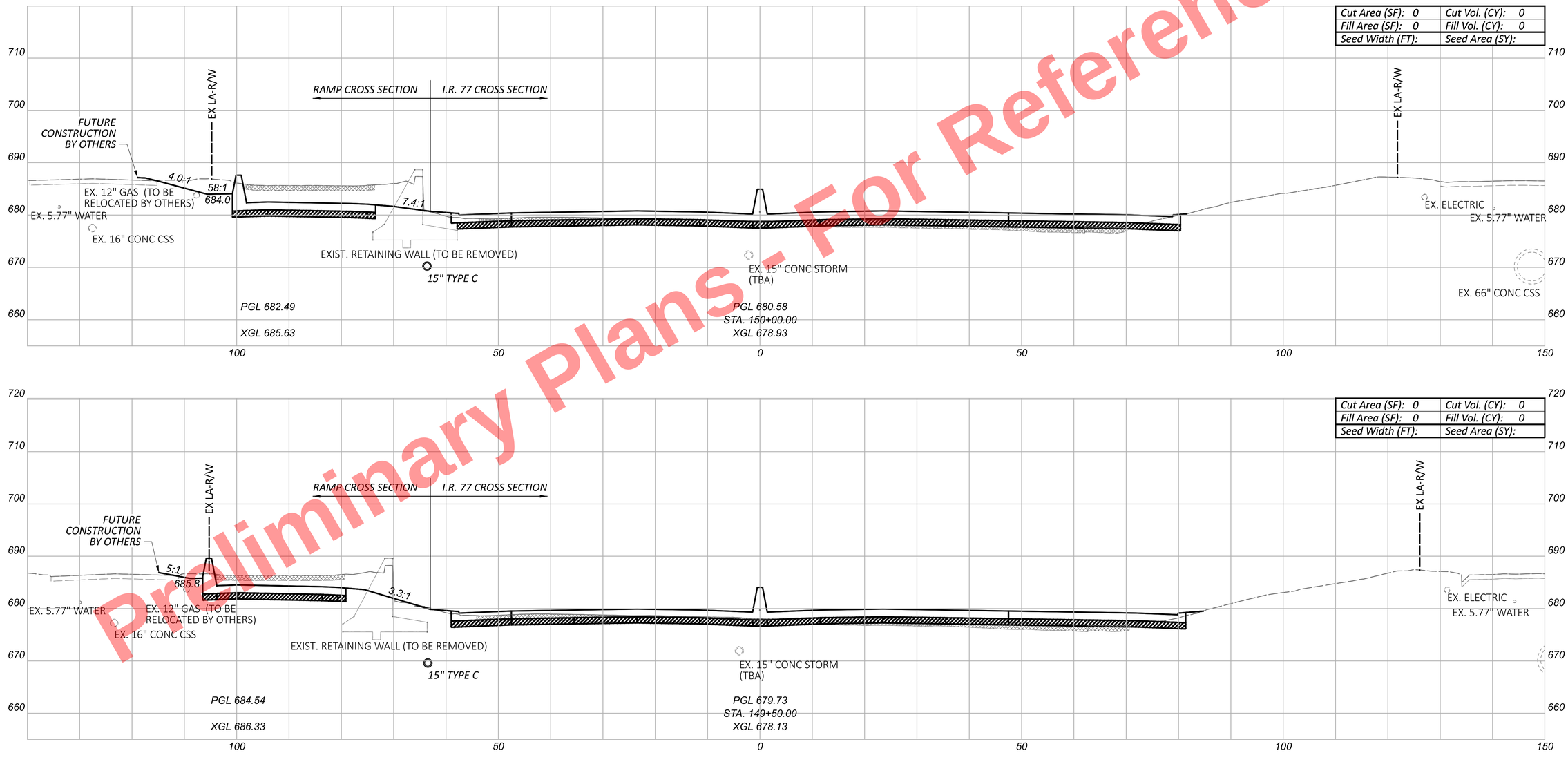
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.397 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 149+50.00 TO STA. 150+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.398
TOTAL P.1135

CUY-77-11.43 - PART 1

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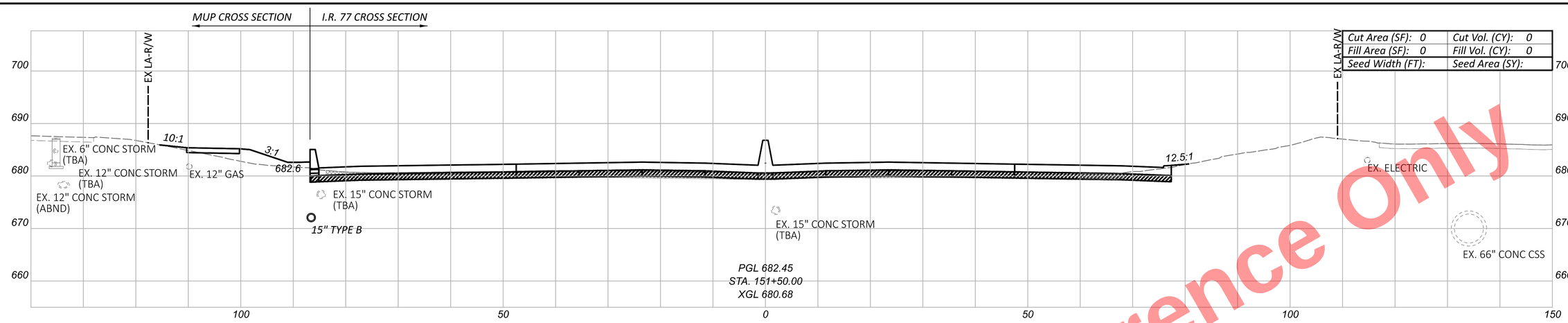


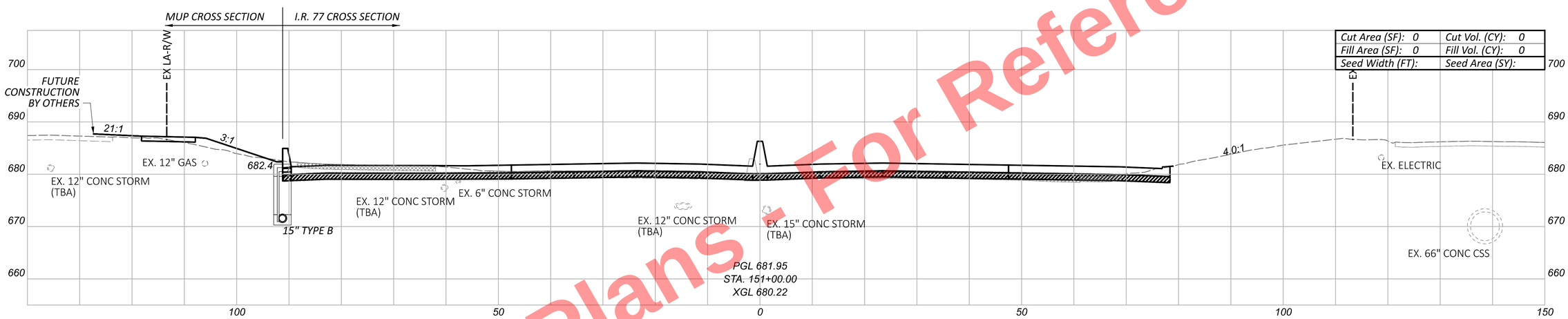


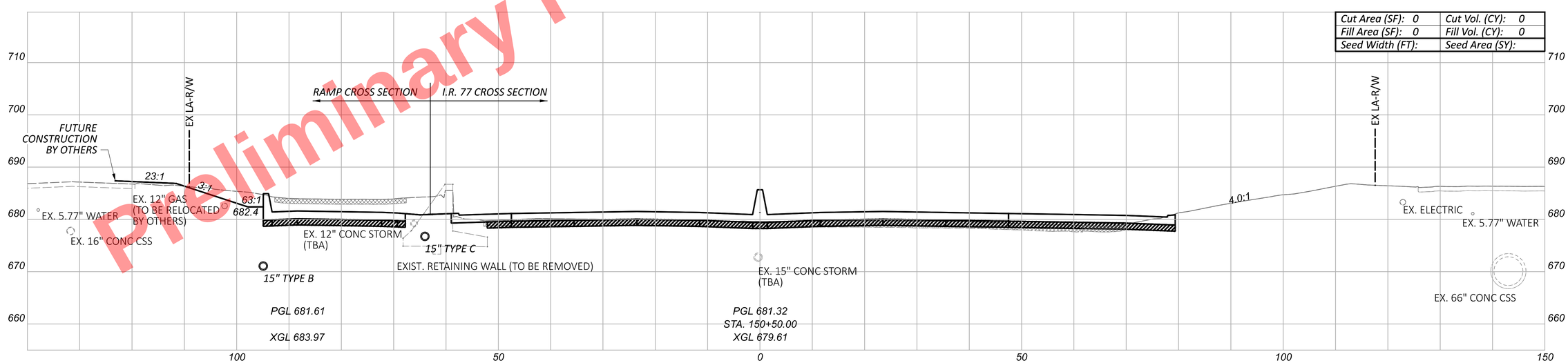


Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 150+50.00 TO STA. 151+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.399 | TOTAL P.1135

CUY-77-11.43 - PART 1

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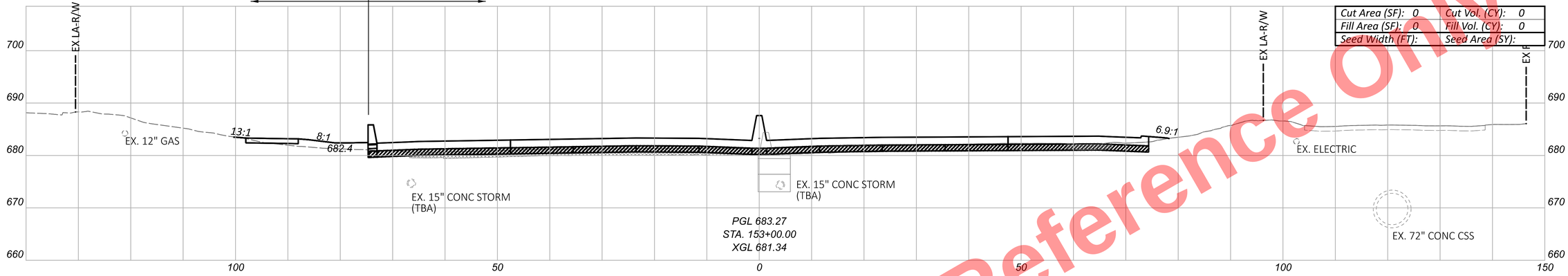
Preliminary Plans - For Reference Only

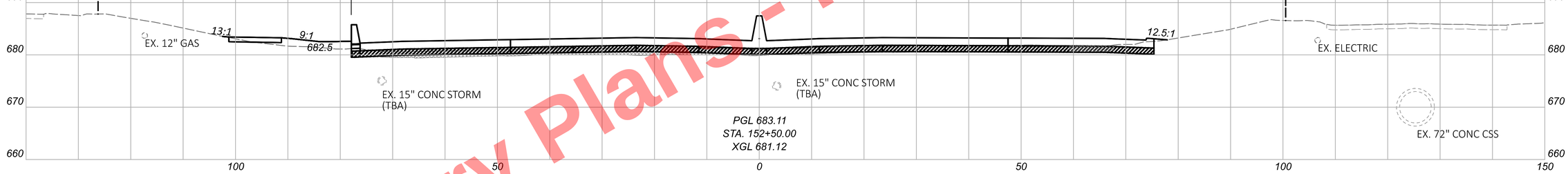
MUP CROSS SECTION | I.R. 77 CROSS SECTION

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |



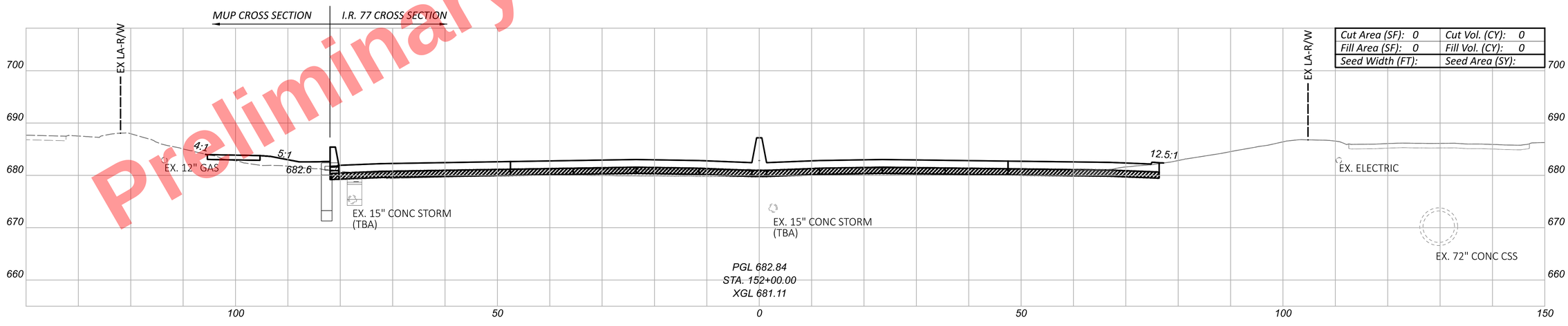

MUP CROSS SECTION | I.R. 77 CROSS SECTION

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




MUP CROSS SECTION | I.R. 77 CROSS SECTION

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 152+00.00 TO STA. 153+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.400 | P.1135 |

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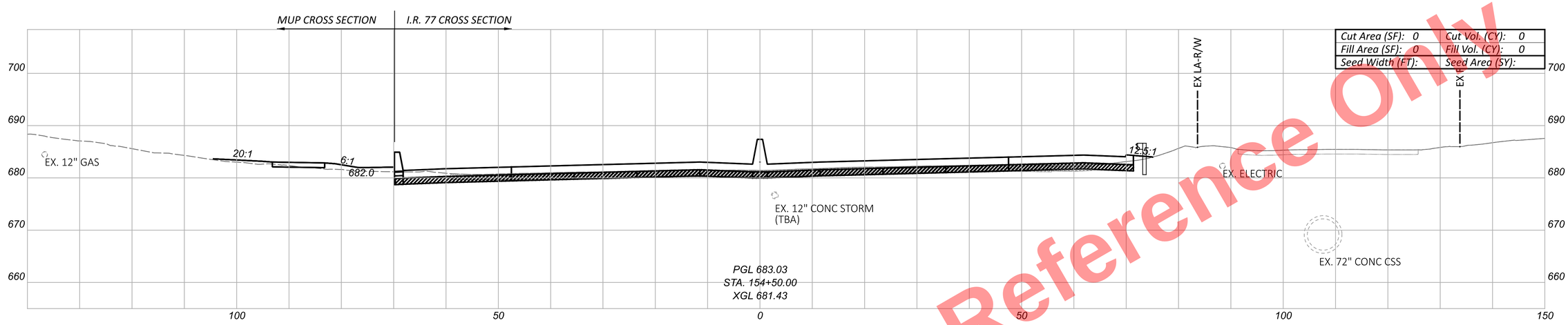
Preliminary Plans - For Reference Only




| | |
|---|---|
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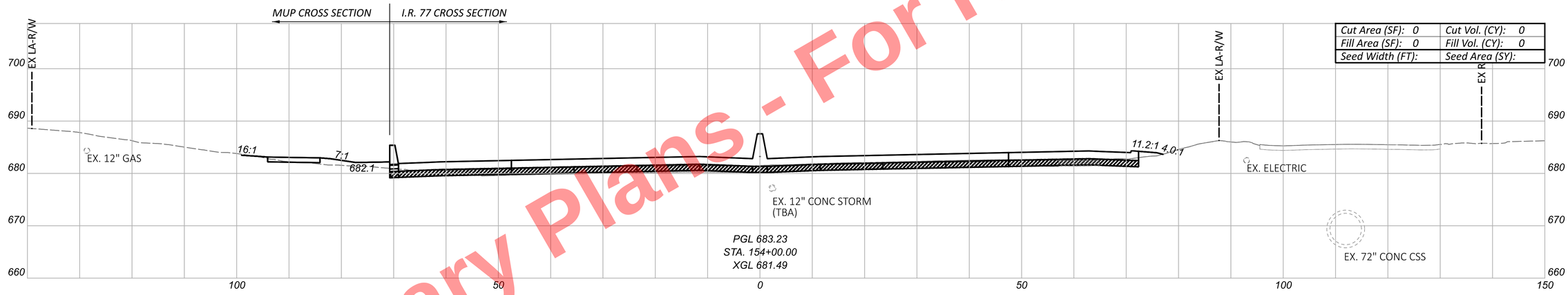
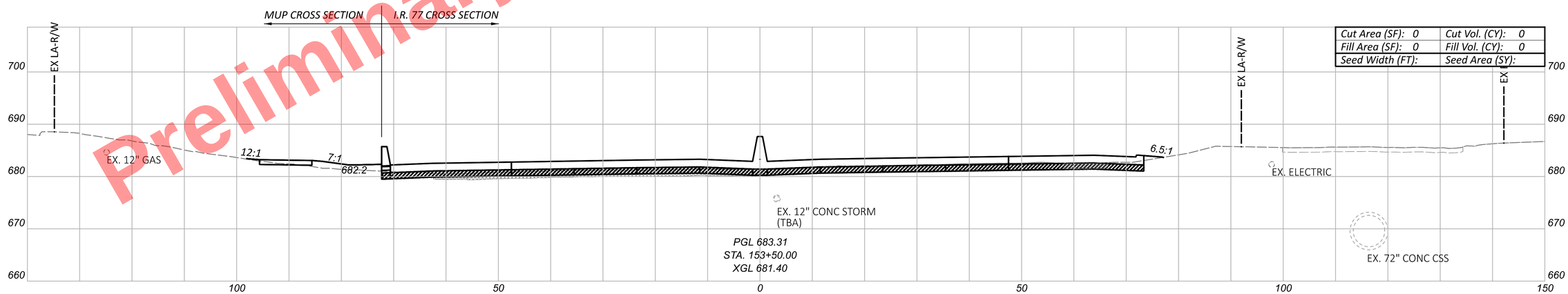
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

# CROSS SECTIONS - I.R. 77
## STA. 153+50.00 TO STA. 154+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

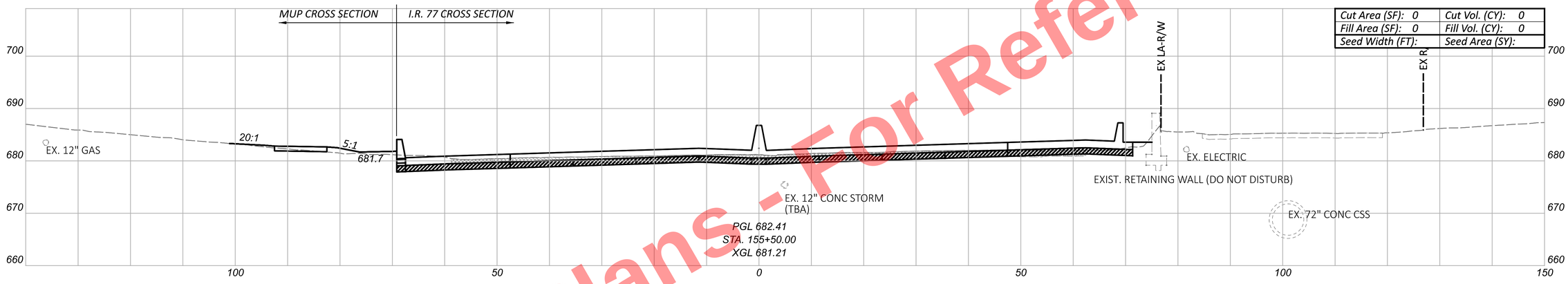
DESIGNER
EAP

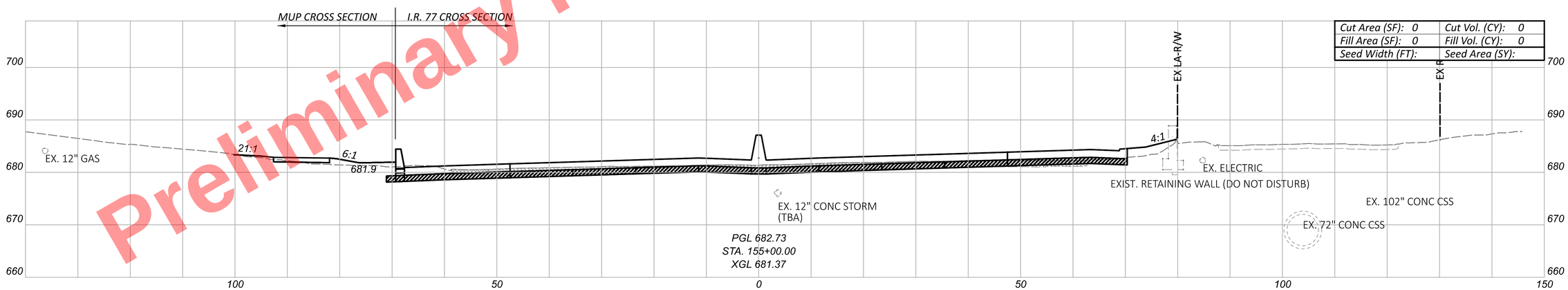
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.401 | P.1135 |




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 155+00.00 TO STA. 155+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.402 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

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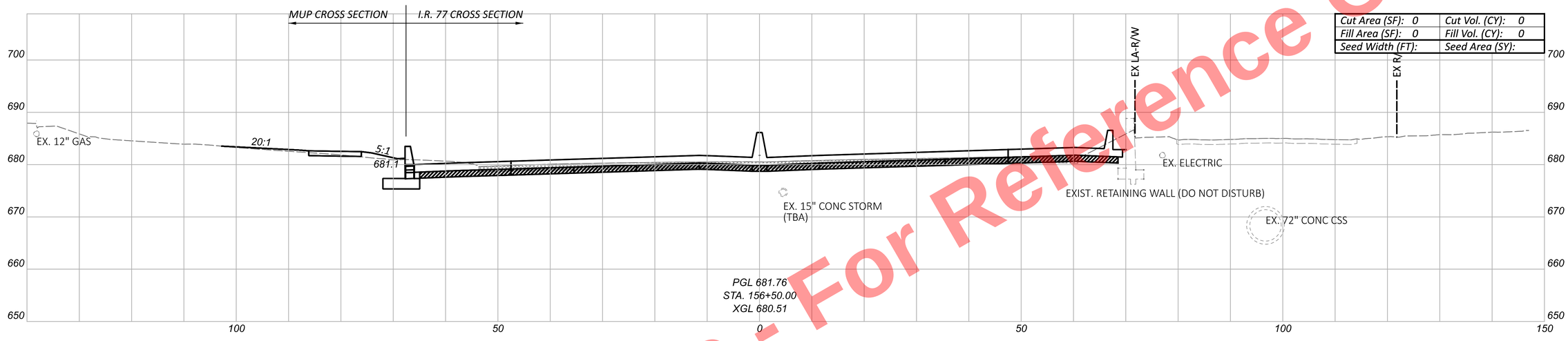


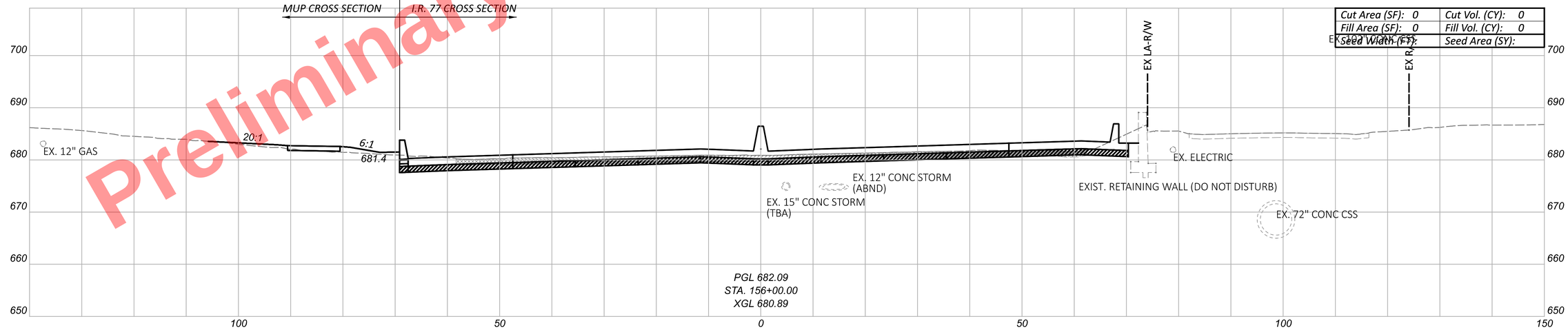


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 156+00.00 TO STA. 156+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

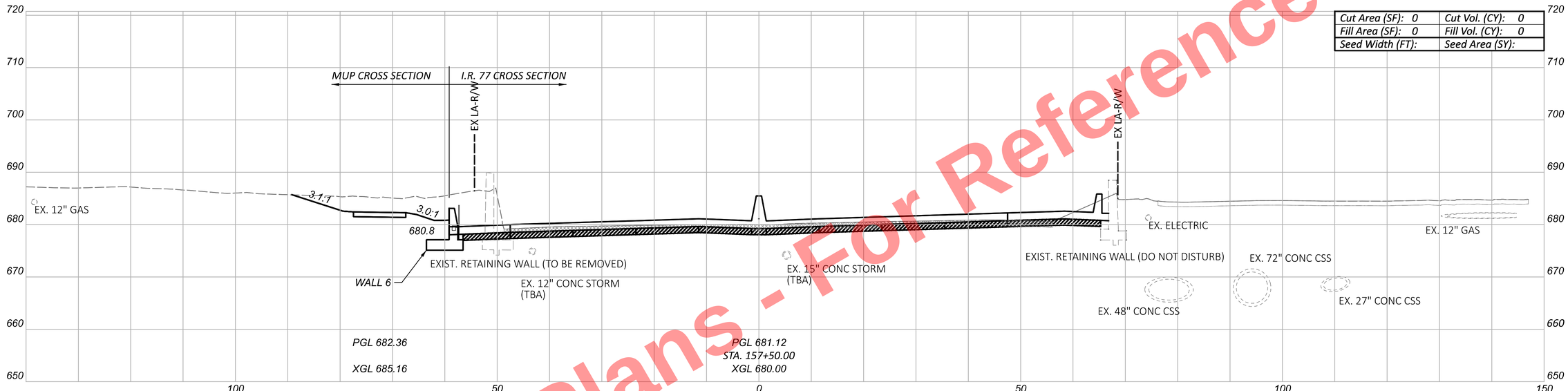
DESIGN AGENCY
HNTB

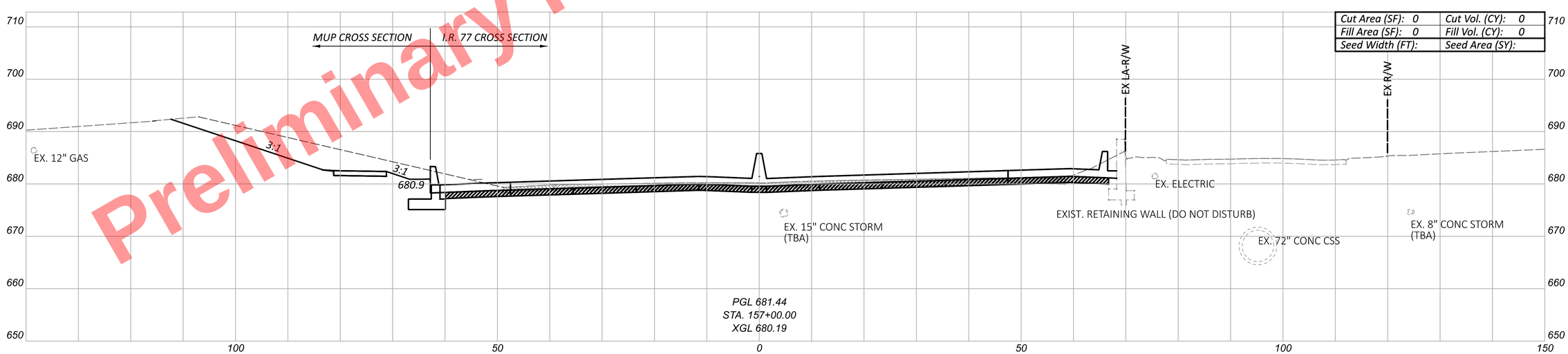
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.403 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 157+00.00 TO STA. 157+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
EAP

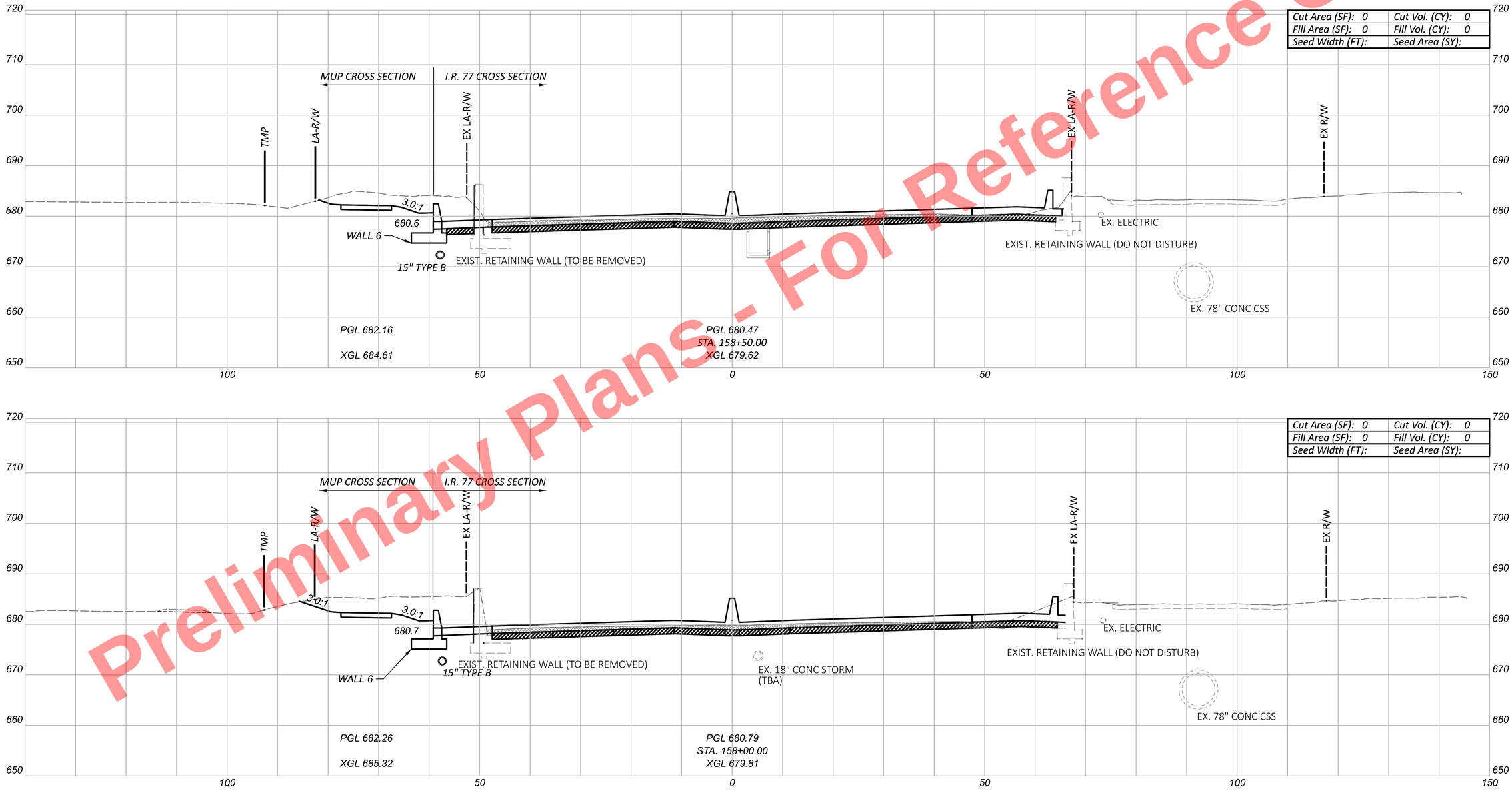
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.404 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 158+00.00 TO STA. 158+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

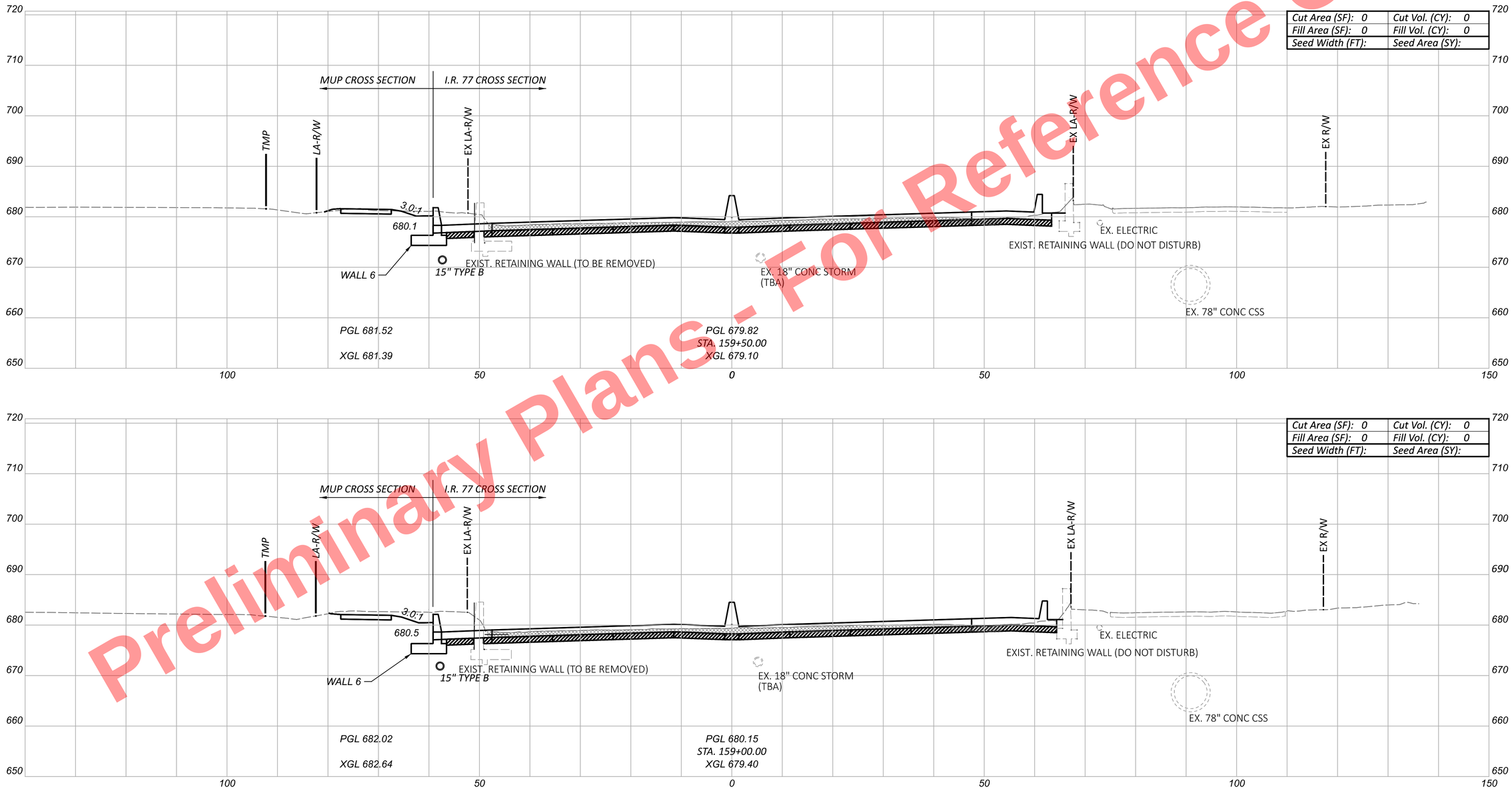
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.405 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 159+00.00 TO STA. 159+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.406 TOTAL P.1135

CUY-77-11.43 - PART 1

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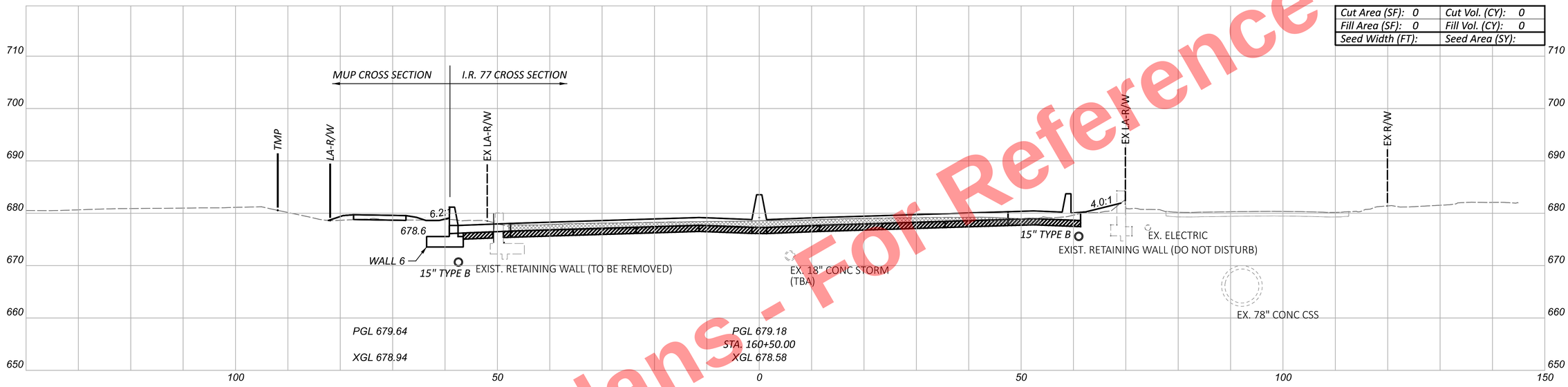
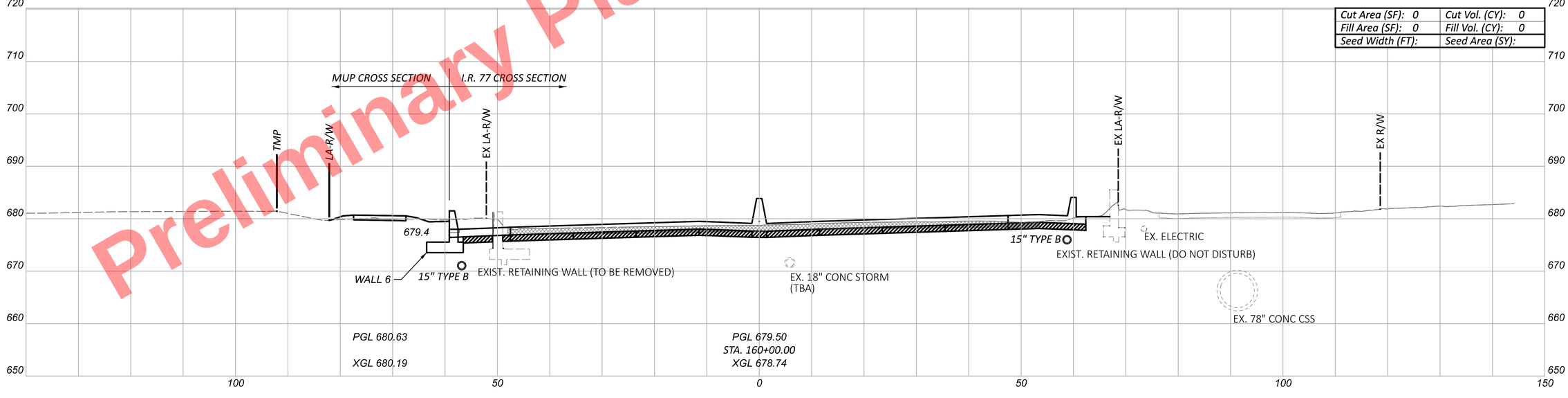
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 160+00.00 TO STA. 160+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

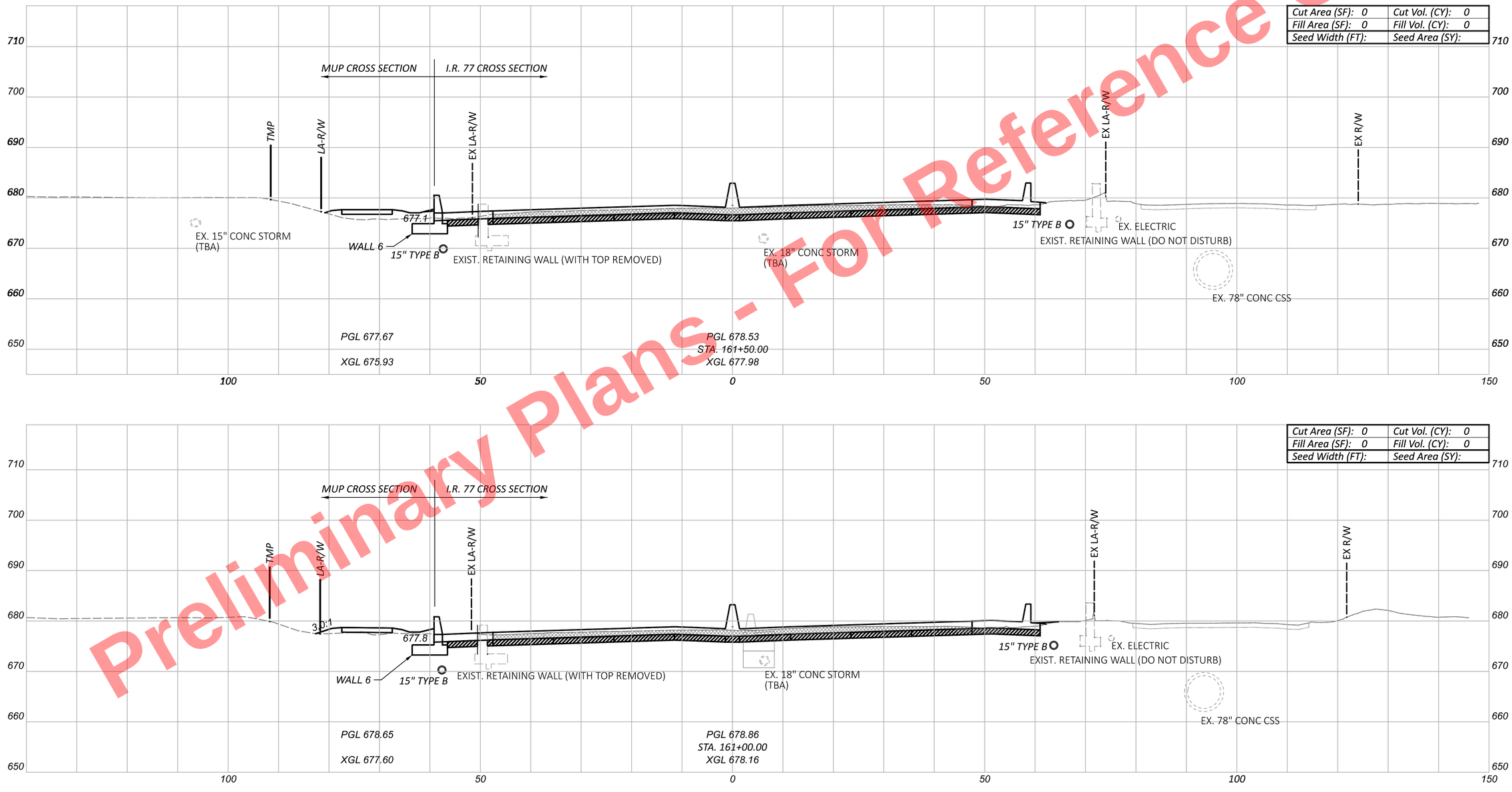
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.407 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
# STA. 161+00.00 TO STA. 161+50.00

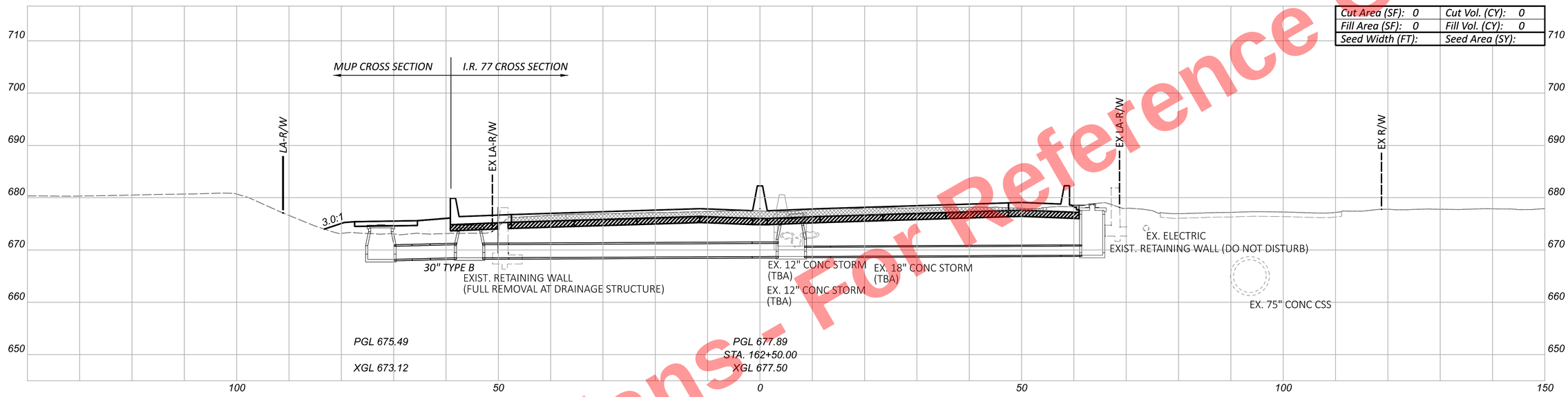
DESIGN AGENCY
HNTB

| DESIGNER | REVIEWER | PROJECT ID |
|---|---|---|
| EAP | MTR 04/01/22 | 105743 |

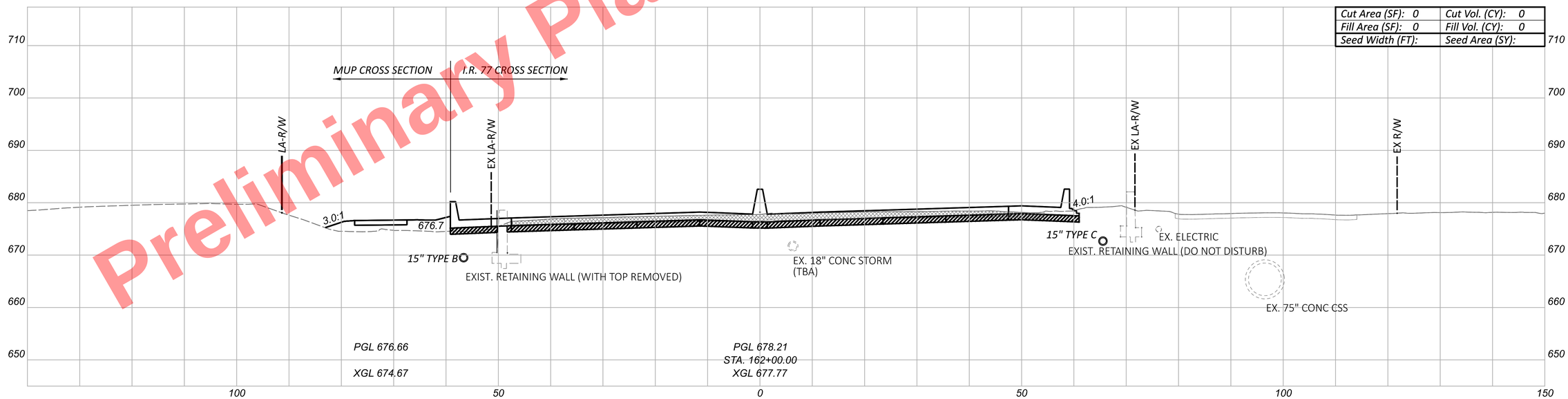
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.408 | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 162+00.00 TO STA. 162+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.409 | P.1135 |

CUY-77-11.43 - PART 1

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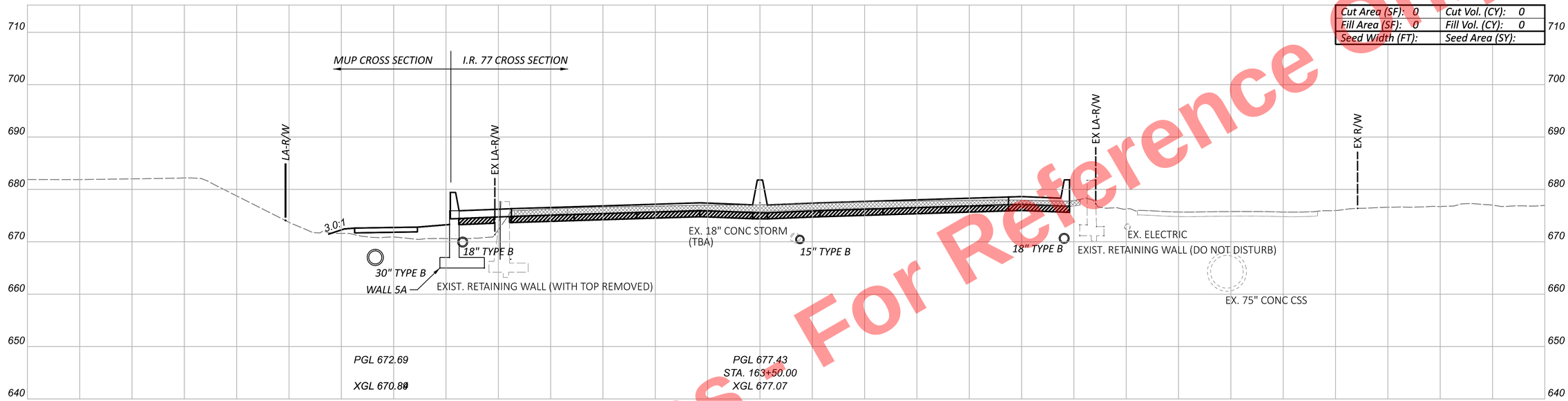
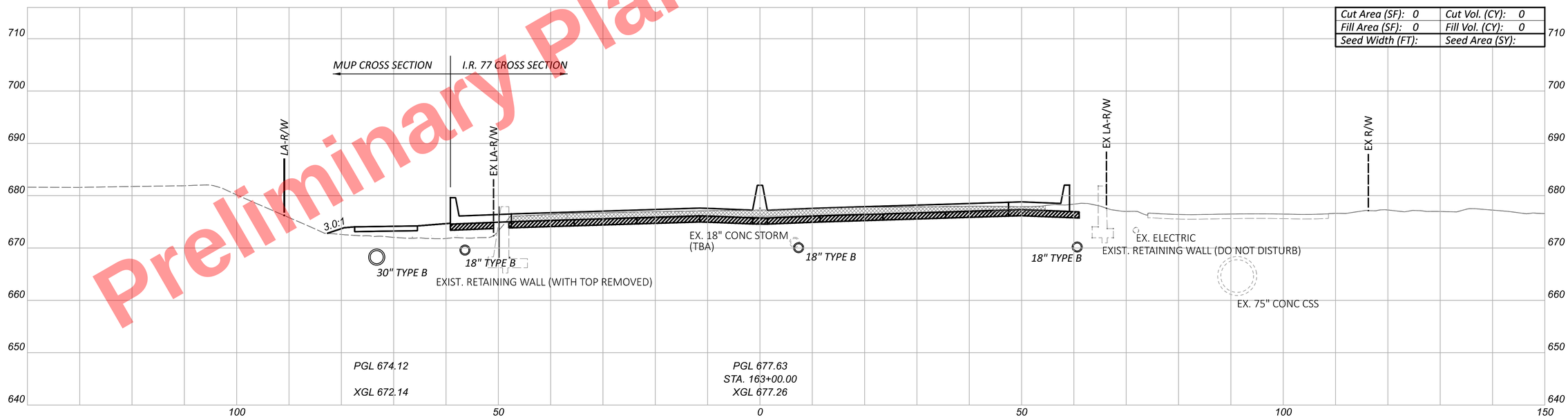
Preliminary Plans - For Reference Only




NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 163+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:18:35 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 163+00.00 TO STA. 163+50.00

DESIGN AGENCY
HNTB

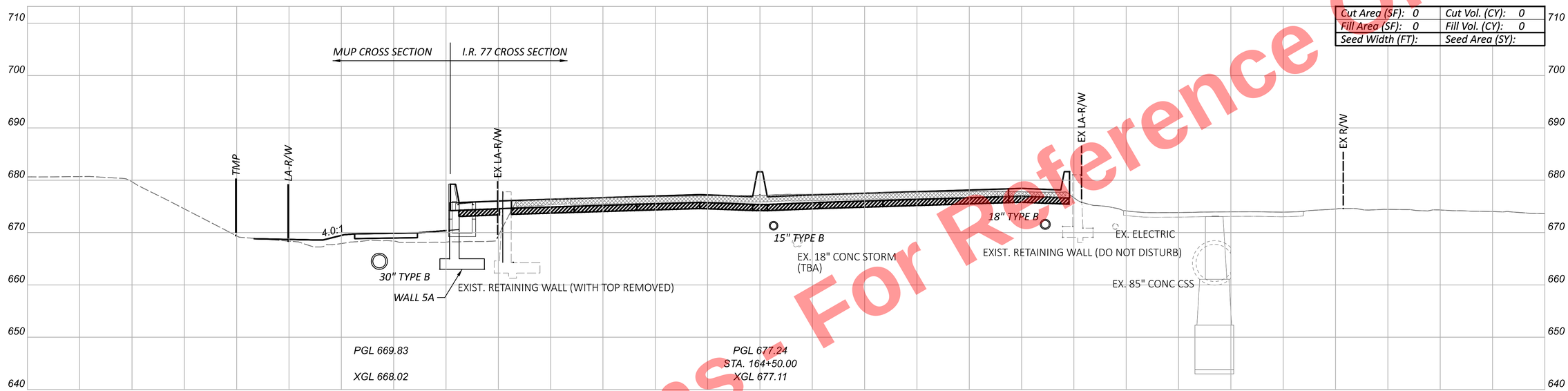
DESIGNER
EAP

REVIEWER
MTR 04/01/22

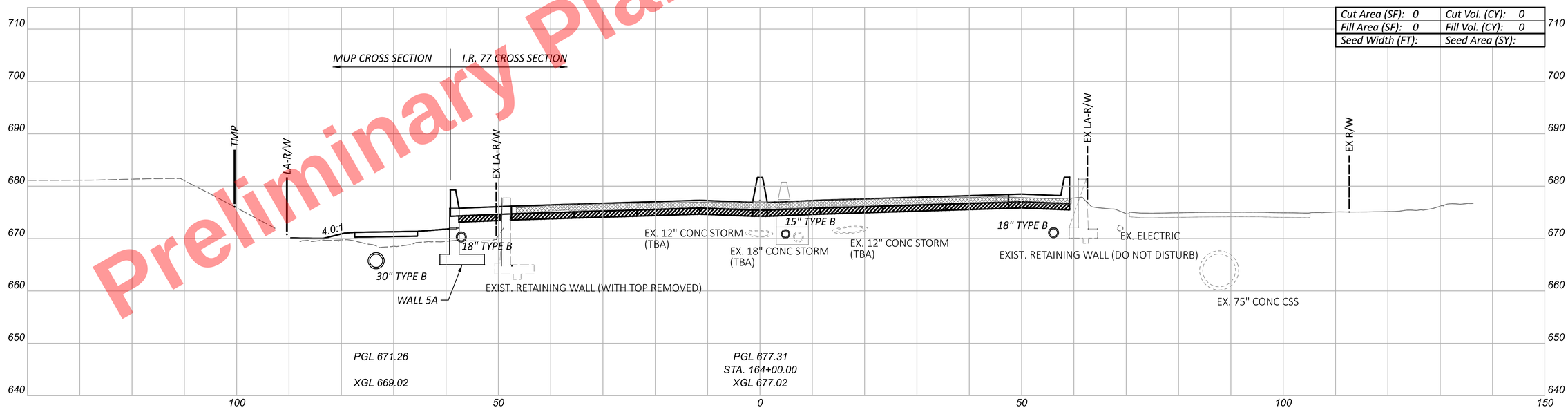
PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.410 | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 164+00.00 TO STA. 164+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.411 TOTAL P.1135

MODEL: CLP_I077 - 164+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:18:40 AM USER: kperkins
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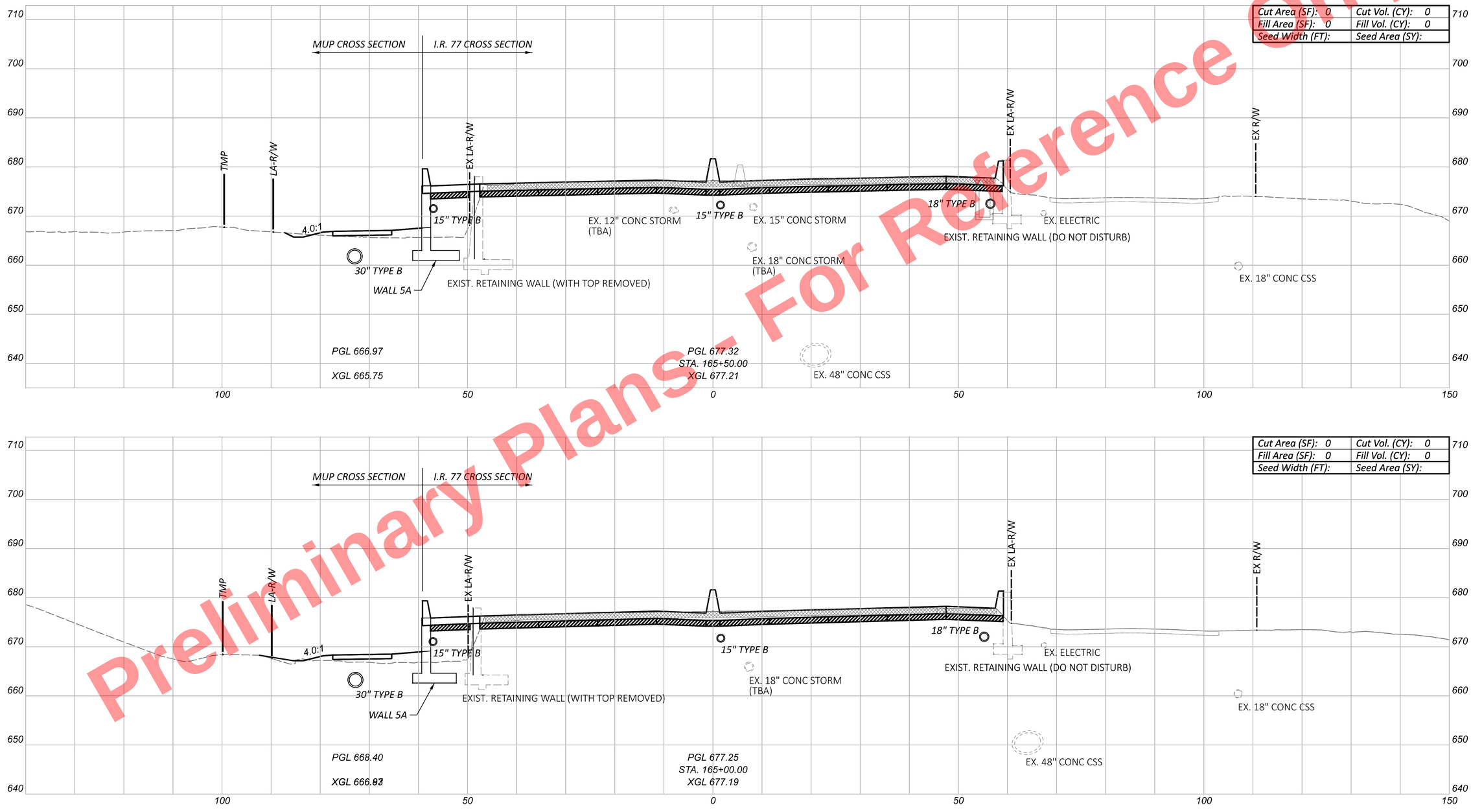


| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 165+00.00 TO STA. 165+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.412 TOTAL P.1135

CUY-77-11.43 - PART 1

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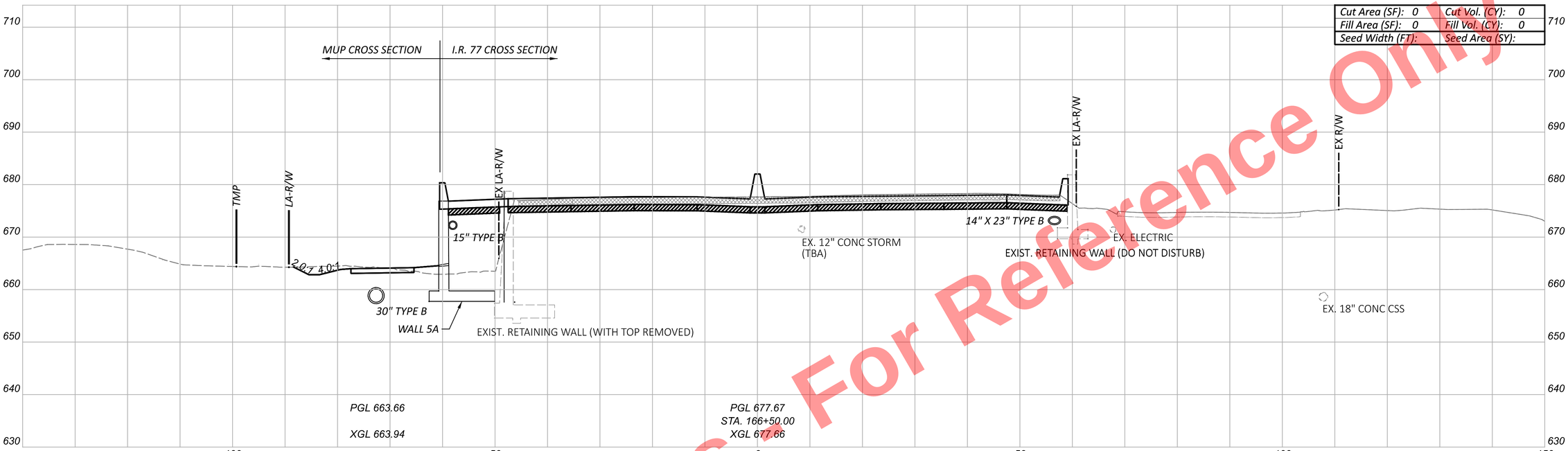


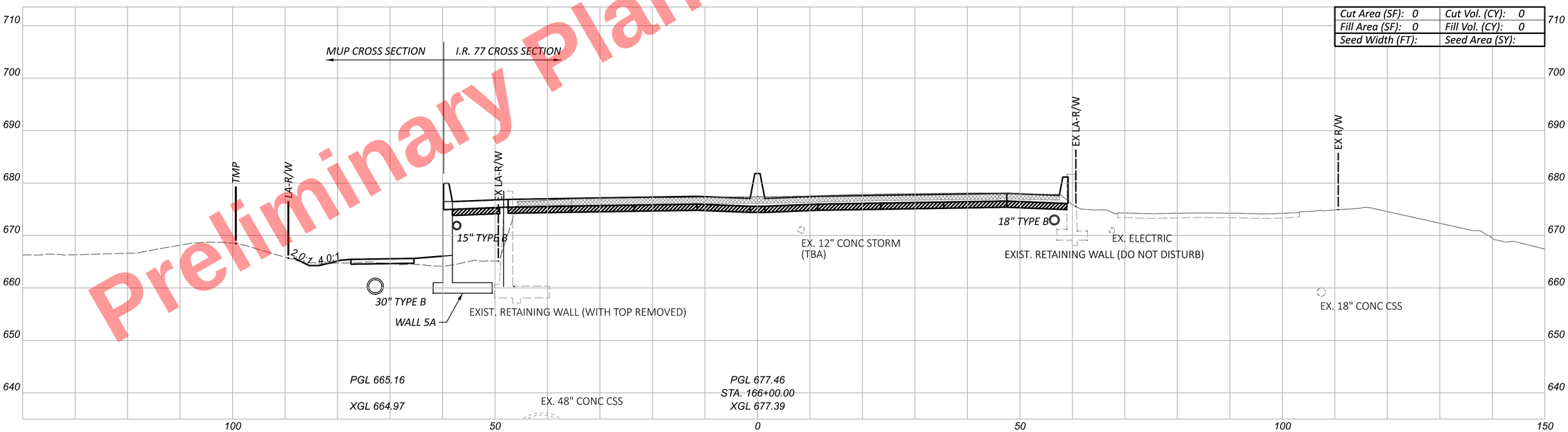


NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 166+00.00 TO STA. 166+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.413 TOTAL: P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 166+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:18:54 AM USER: kperkins
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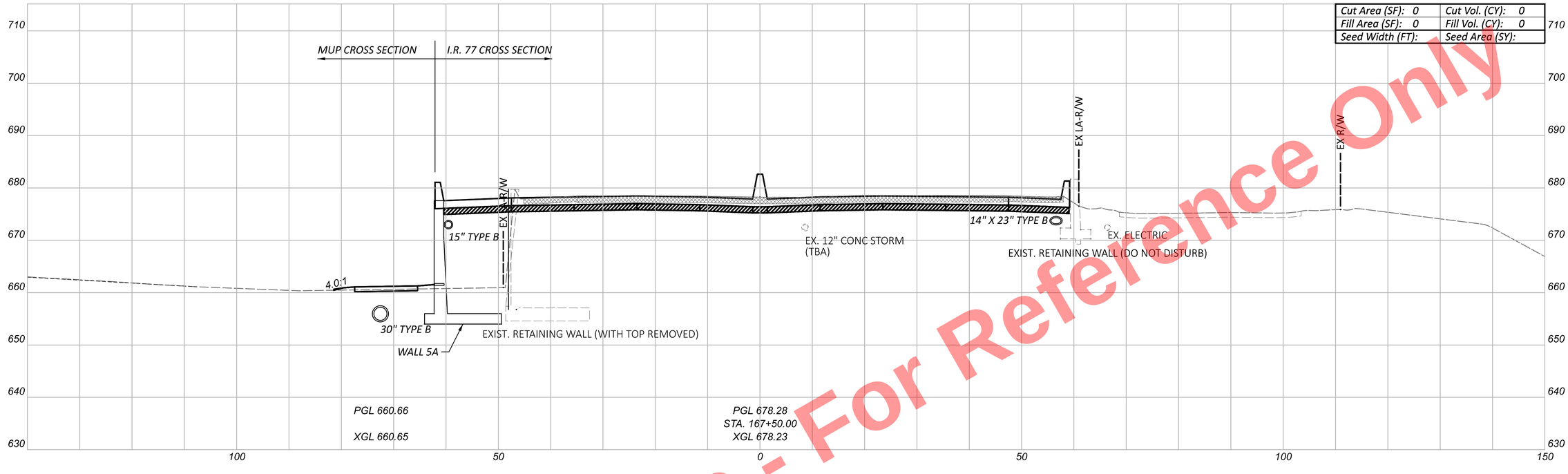


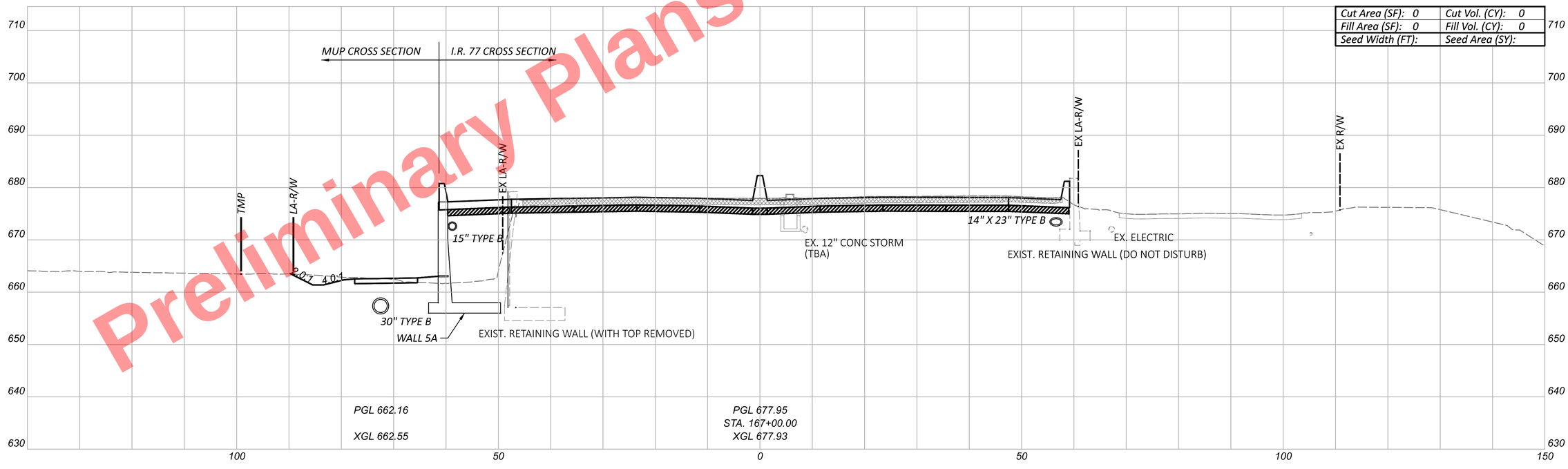


NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 167+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:19:00 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 167+00.00 TO STA. 167+50.00

DESIGN AGENCY
HNTB

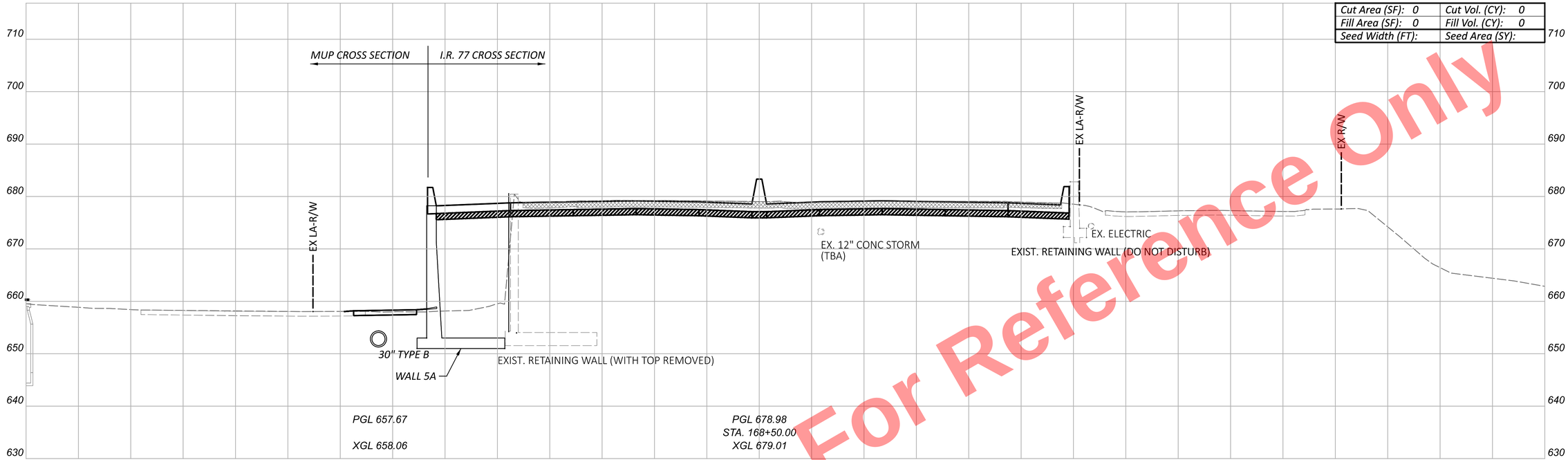
DESIGNER
EAP

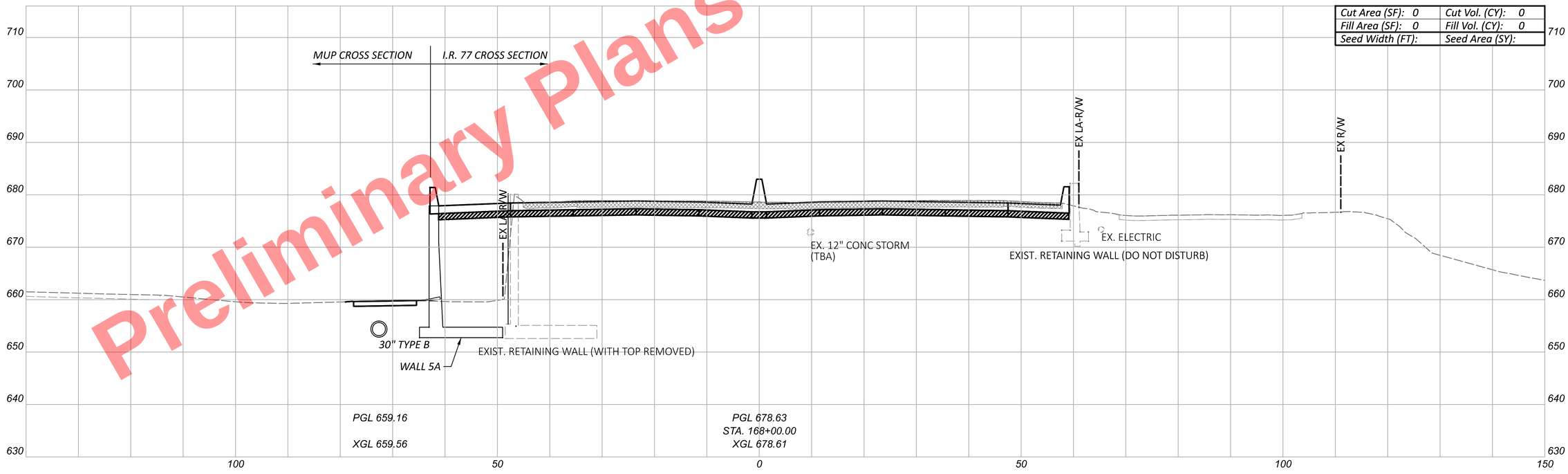
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.414 | P.1135 |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 168+00.00 TO STA. 168+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

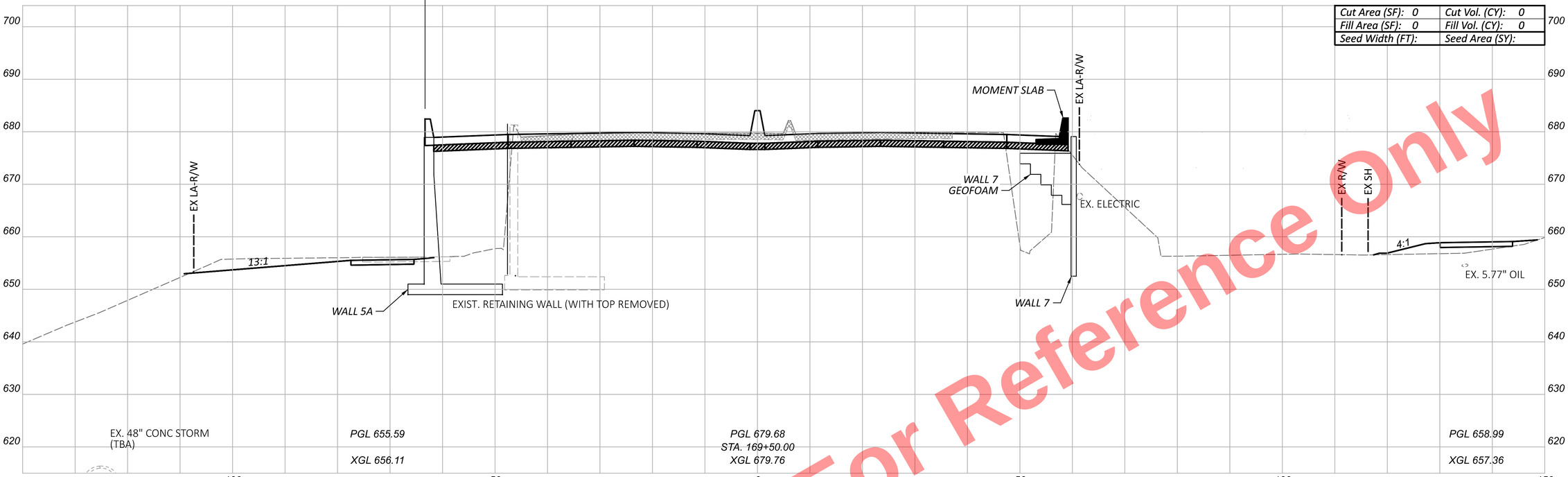
REVIEWER
MTR 04/01/22

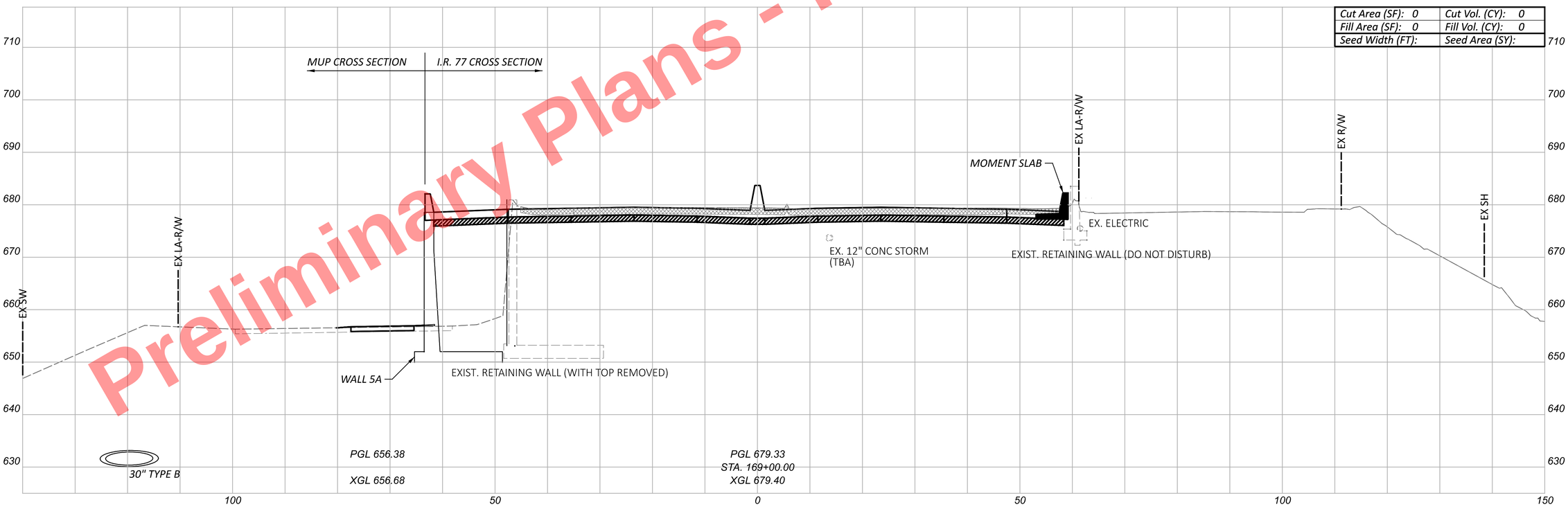
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.415 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 169+00.00 TO STA. 169+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

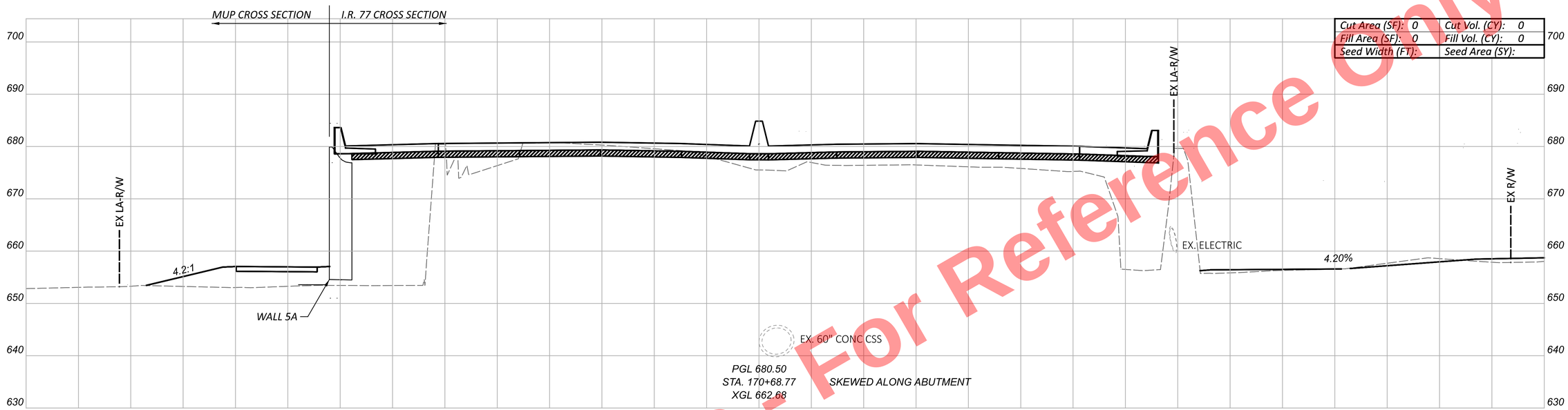
DESIGNER
EAP

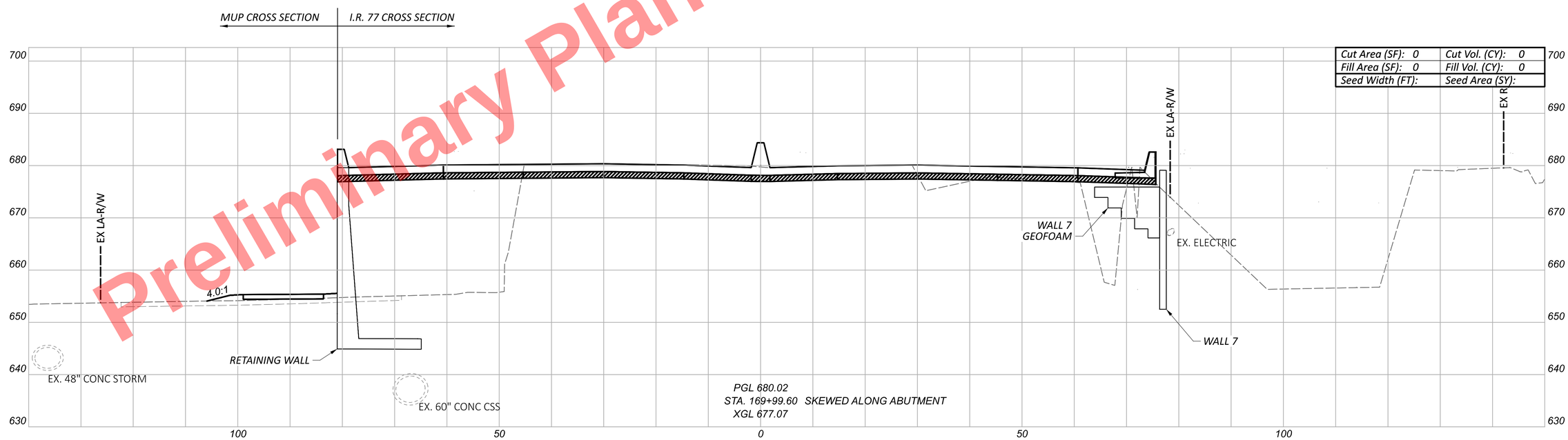
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.416 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 170+00.00 TO STA. 170+50.00

CUY-77-11.43 - PART 1

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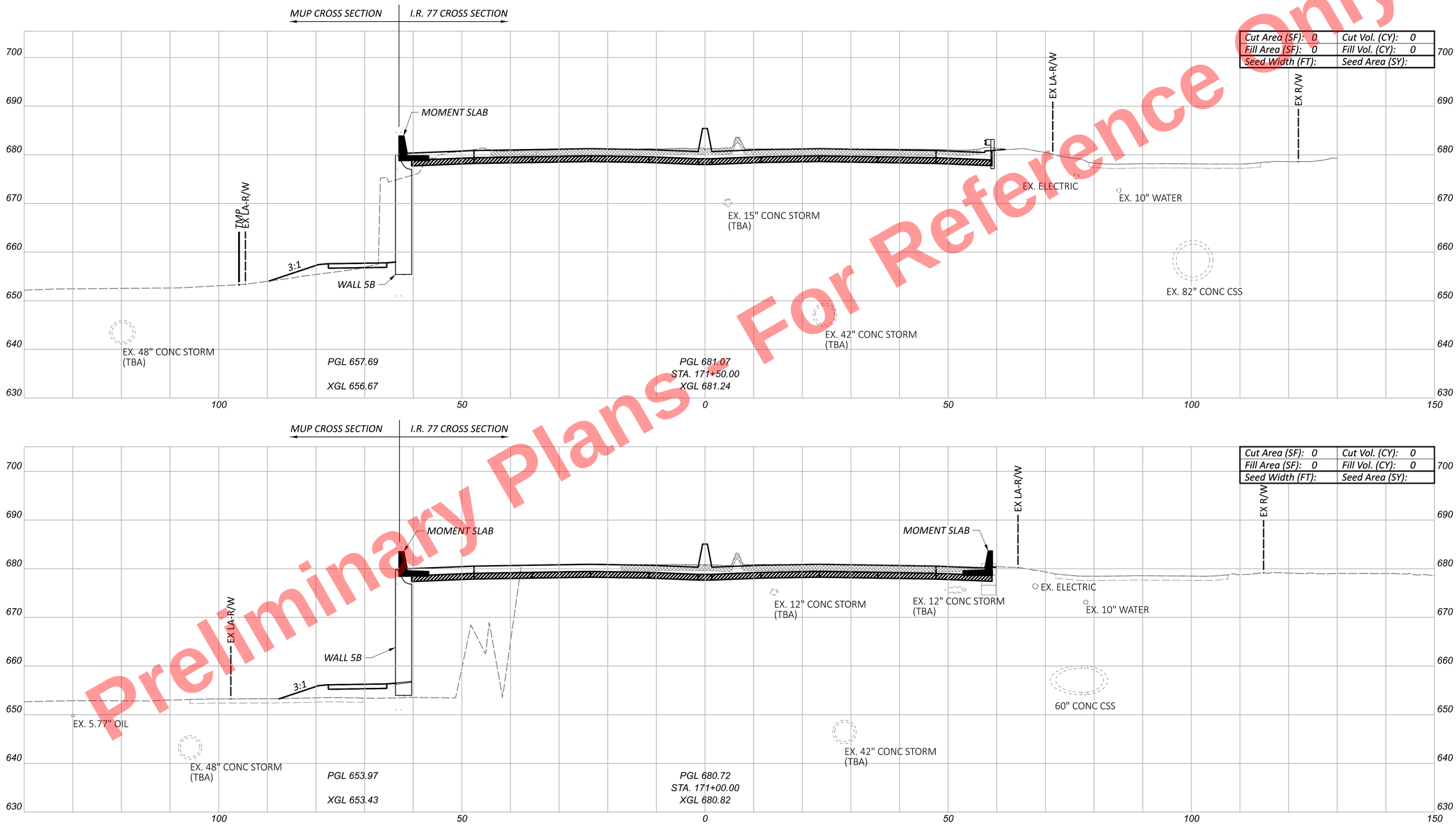
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| · | · | · |

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.417 |
| TOTAL | P.1135 |

Preliminary Plans For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
# STA. 171+00.00 TO STA. 171+50.00

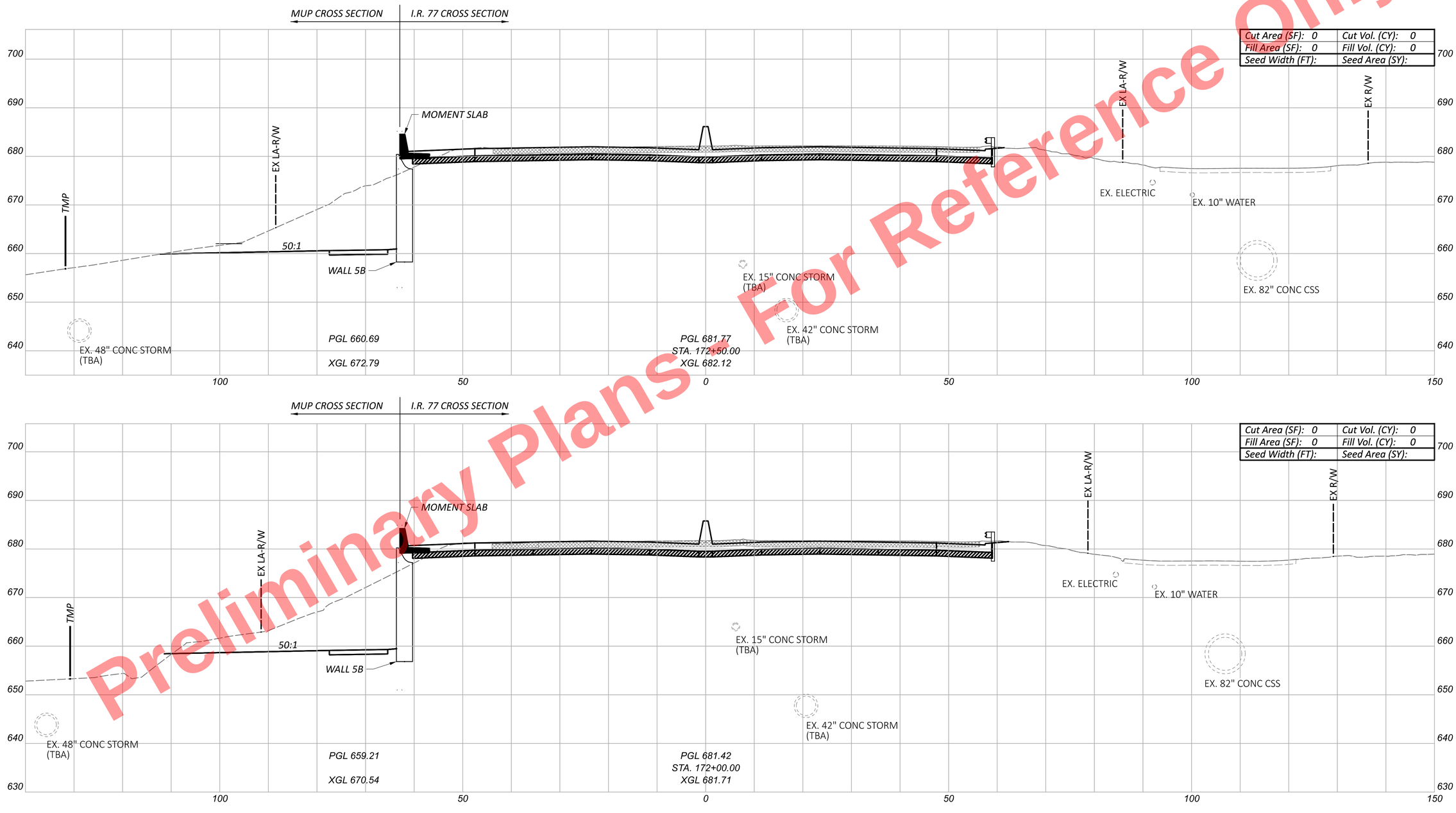
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EAP |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.418 | P.1135 |

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
# STA. 172+00.00 TO STA. 172+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

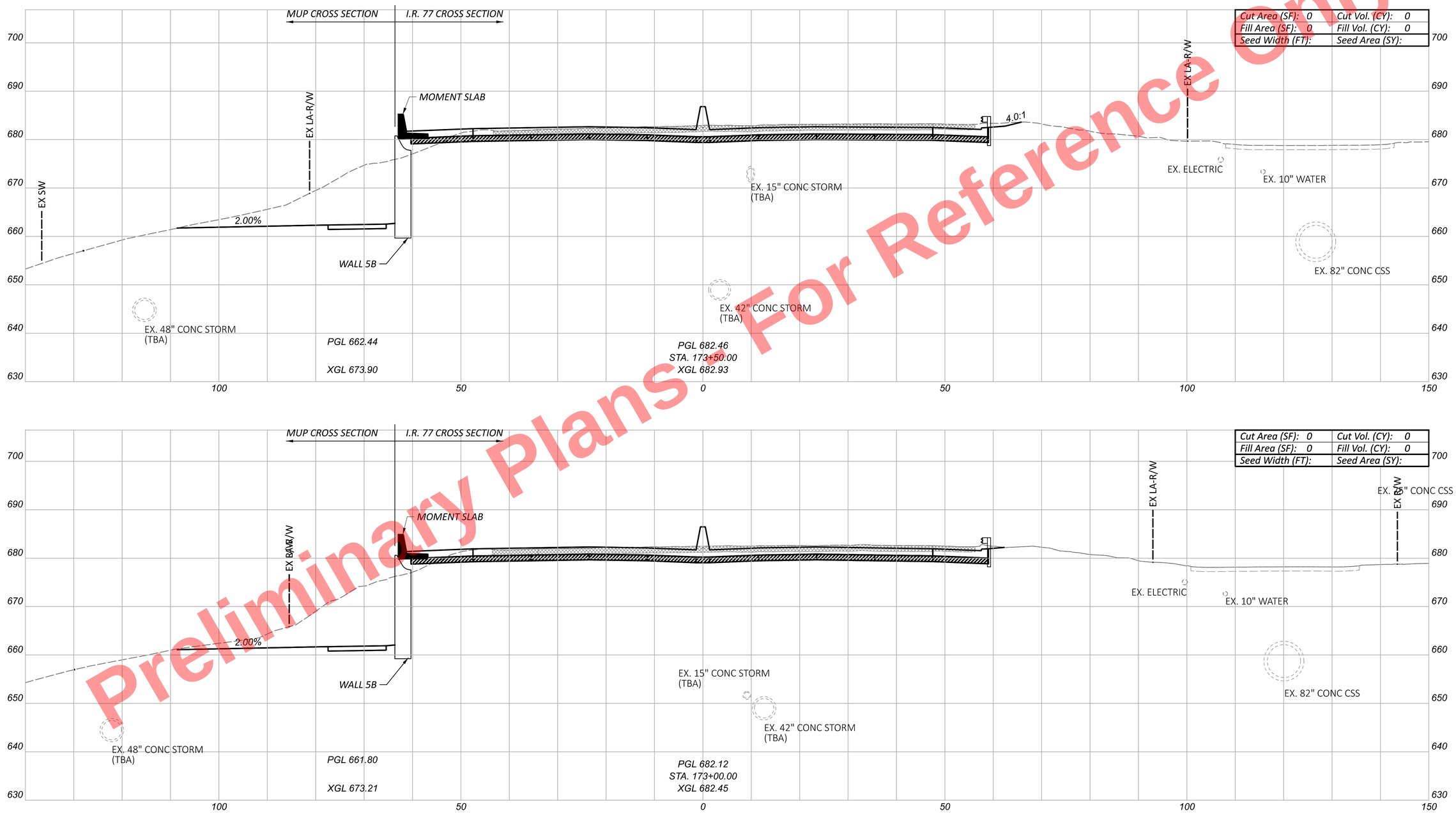
DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.419 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 173+00.00 TO STA. 173+50.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 173+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:19:42 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

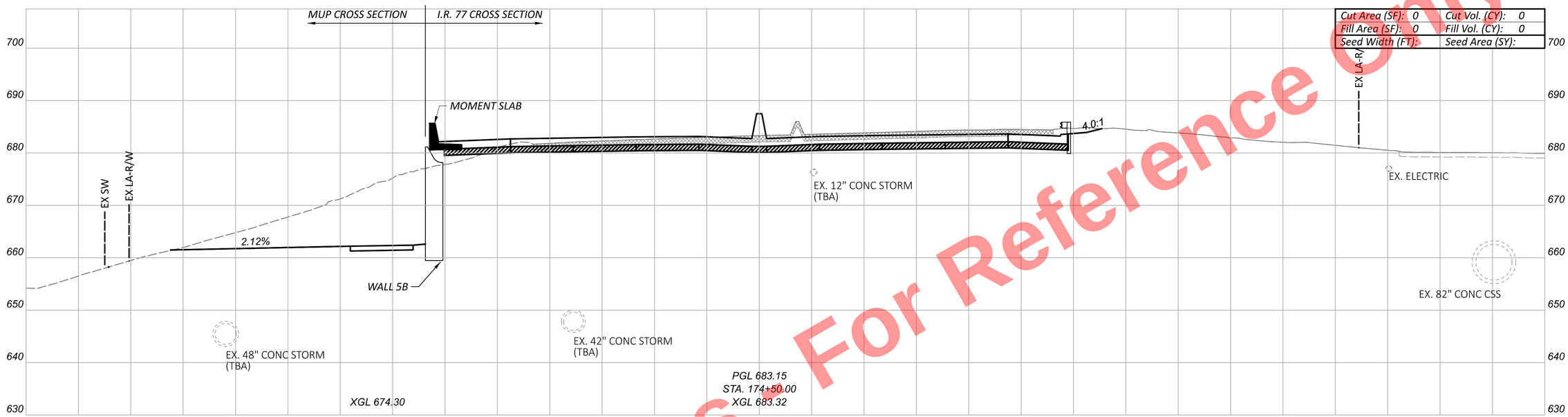
DESIGN AGENCY
HNTB

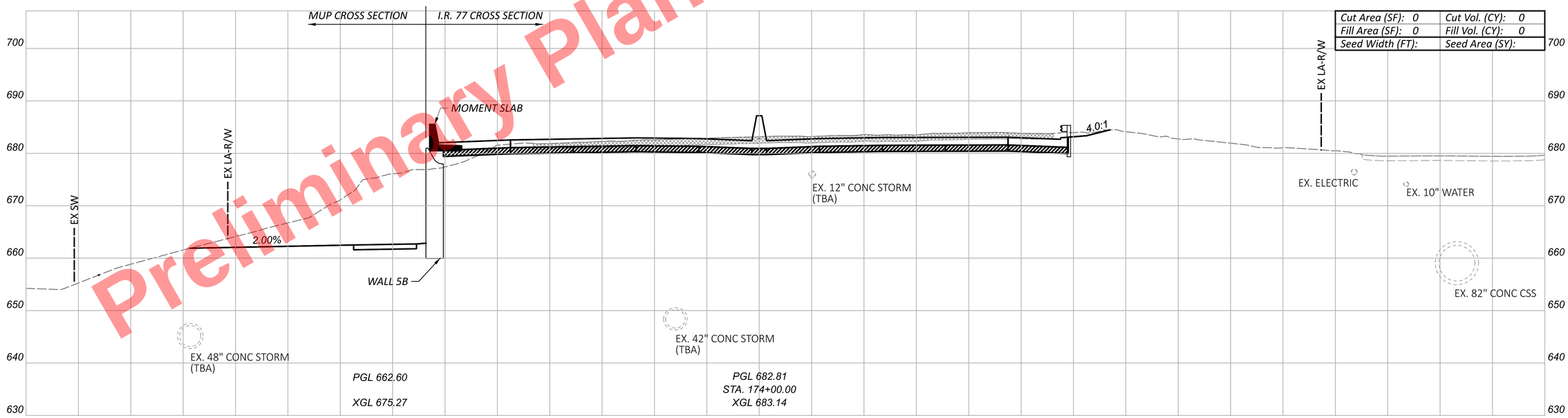
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.420 TOTAL P.1135




Preliminary Plans
For Reference Only

CUY-77-11.43 - PART 1

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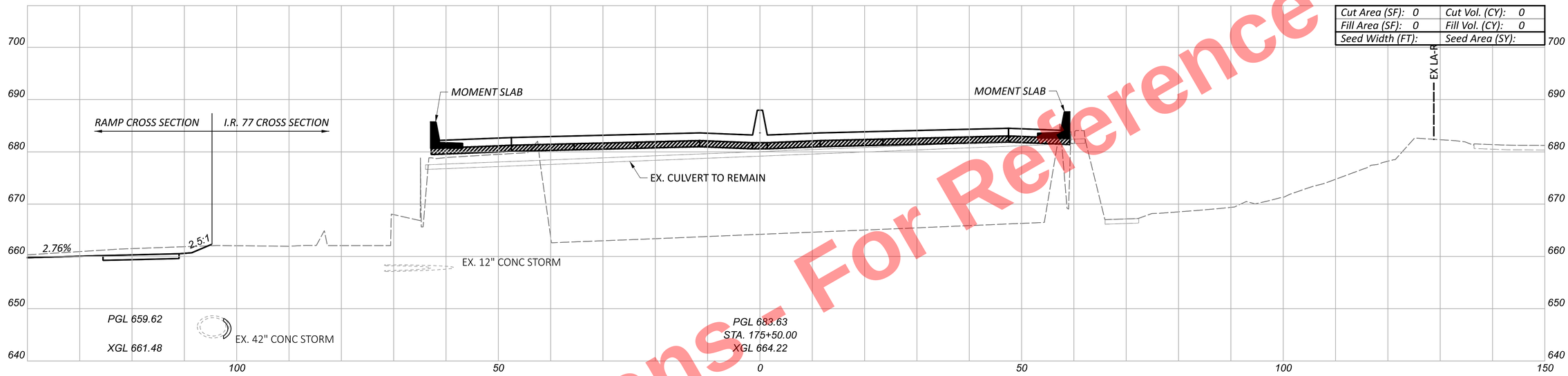
# CROSS SECTIONS - I.R. 77
# STA. 174+00.00 TO STA. 174+50.00

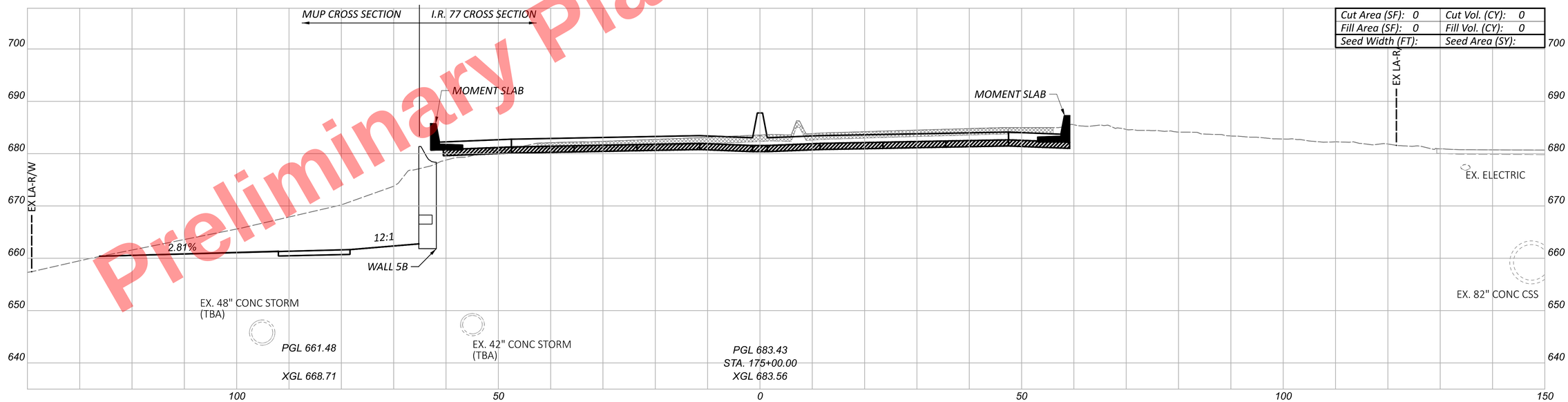
DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.421 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 175+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:19:52 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 175+00.00 TO STA. 175+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

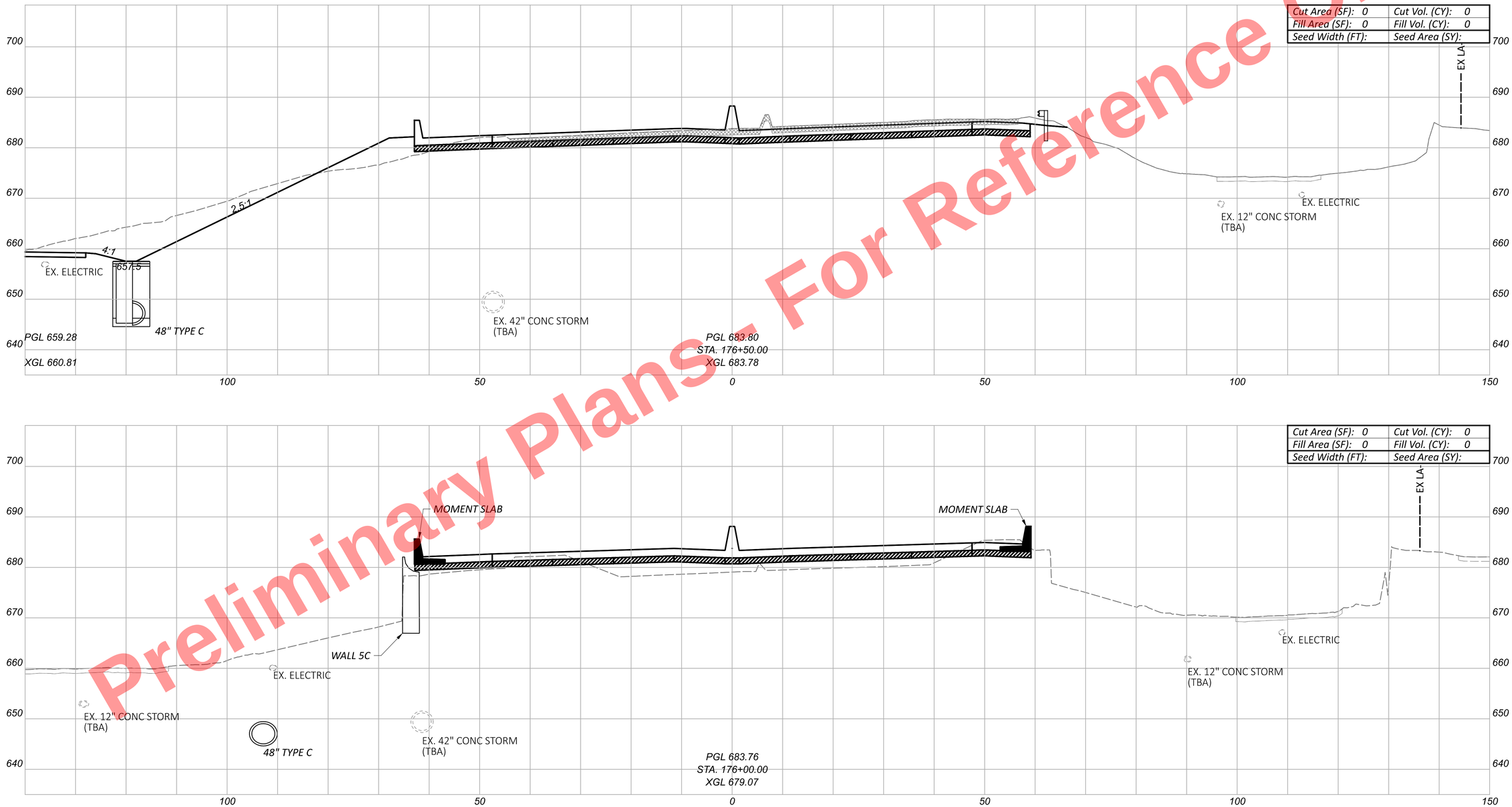
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.422 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 176+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:19:56 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 176+00.00 TO STA. 176+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

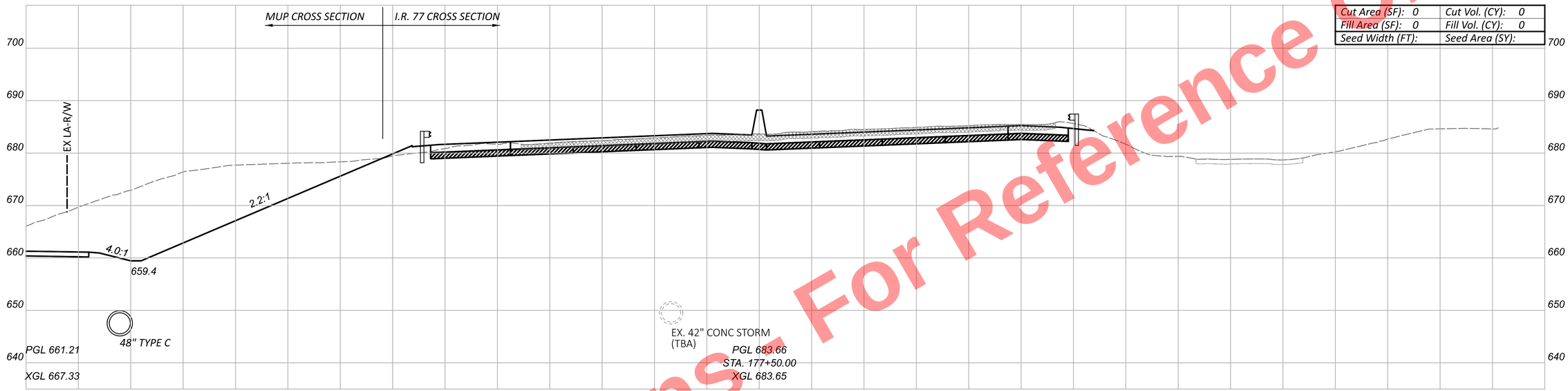
DESIGNER
EAP

REVIEWER
MTR 04/01/22

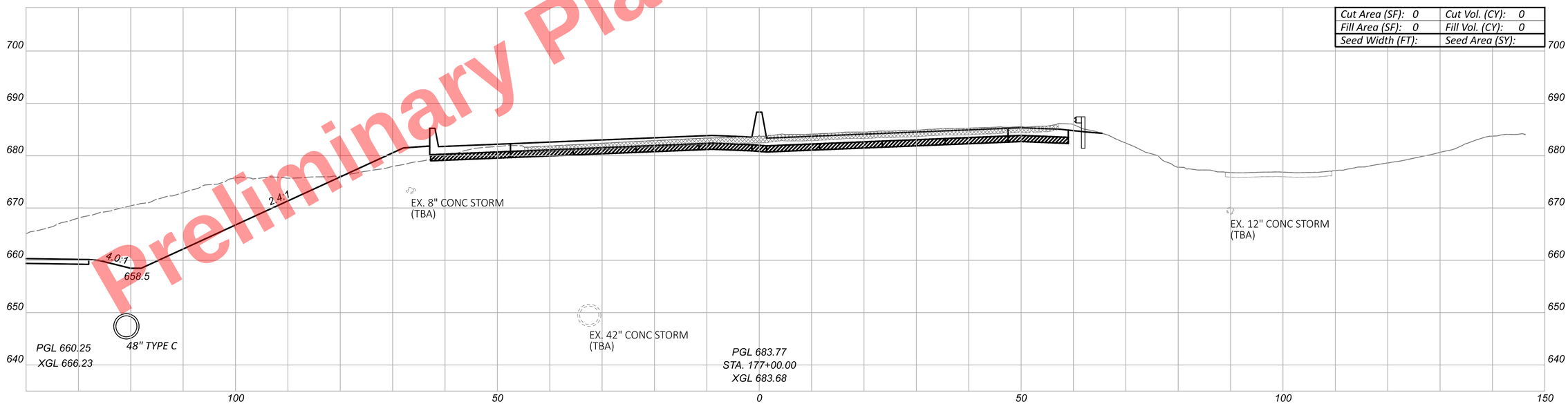
PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.423 | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 177+00.00 TO STA. 177+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.424 TOTAL P.1135

MODEL: CLP_I077 - 177+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:20:02 AM USER: kperkins
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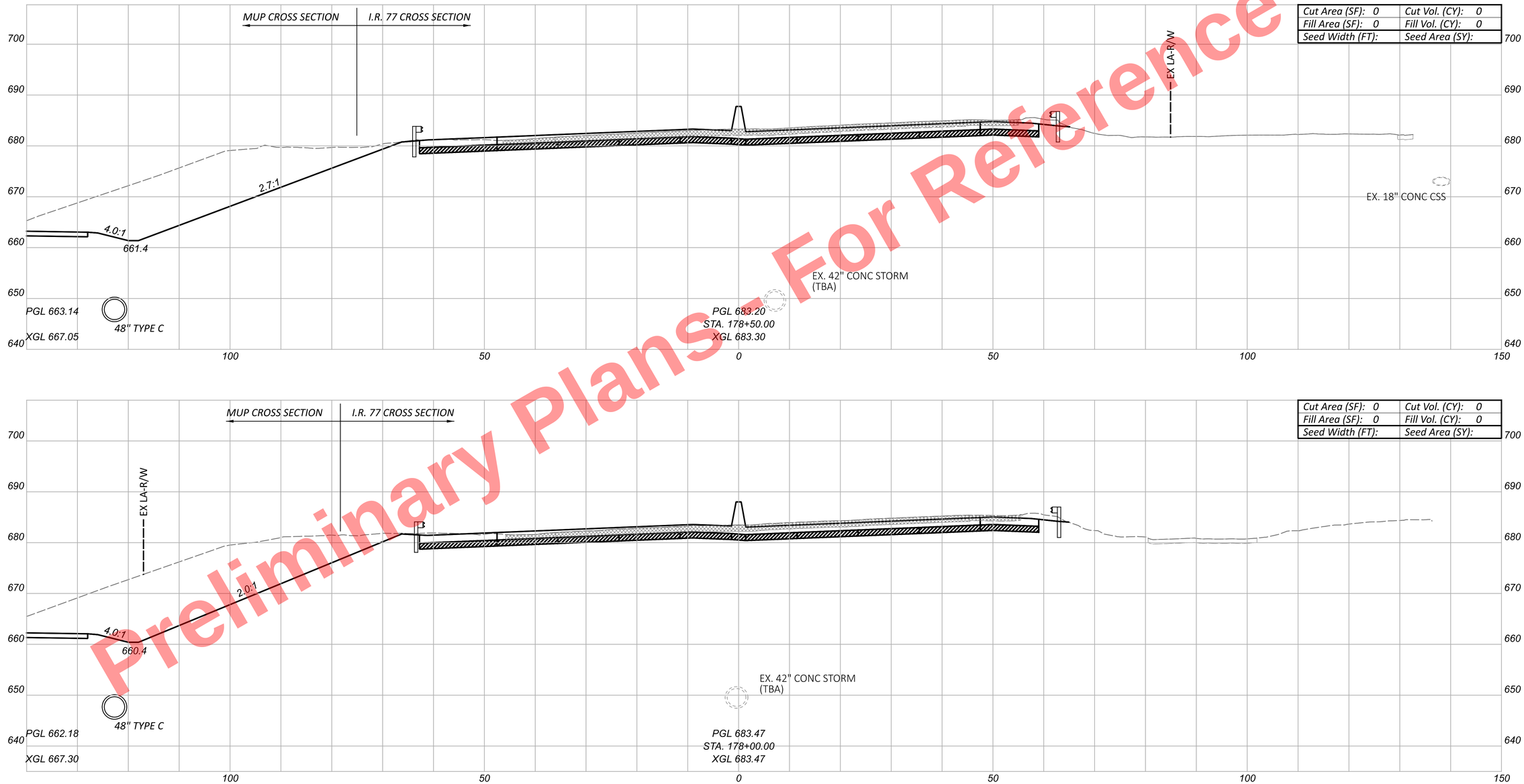
Preliminary Plans - For Reference Only







CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 178+00.00 TO STA. 178+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

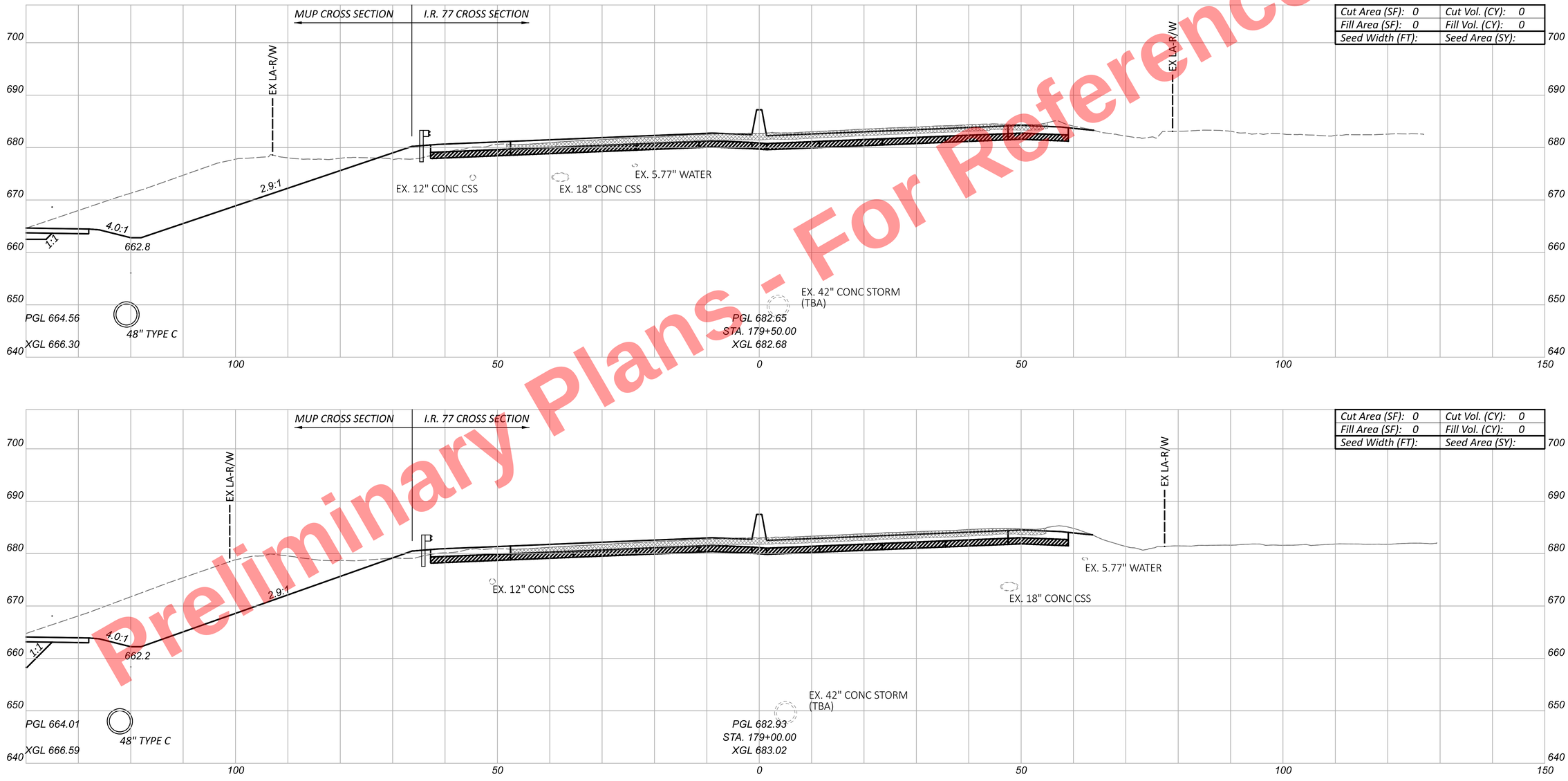
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.425 TOTAL P.1135

Preliminary Plans - For Reference Only







CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 179+50.00 TO STA. 179+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

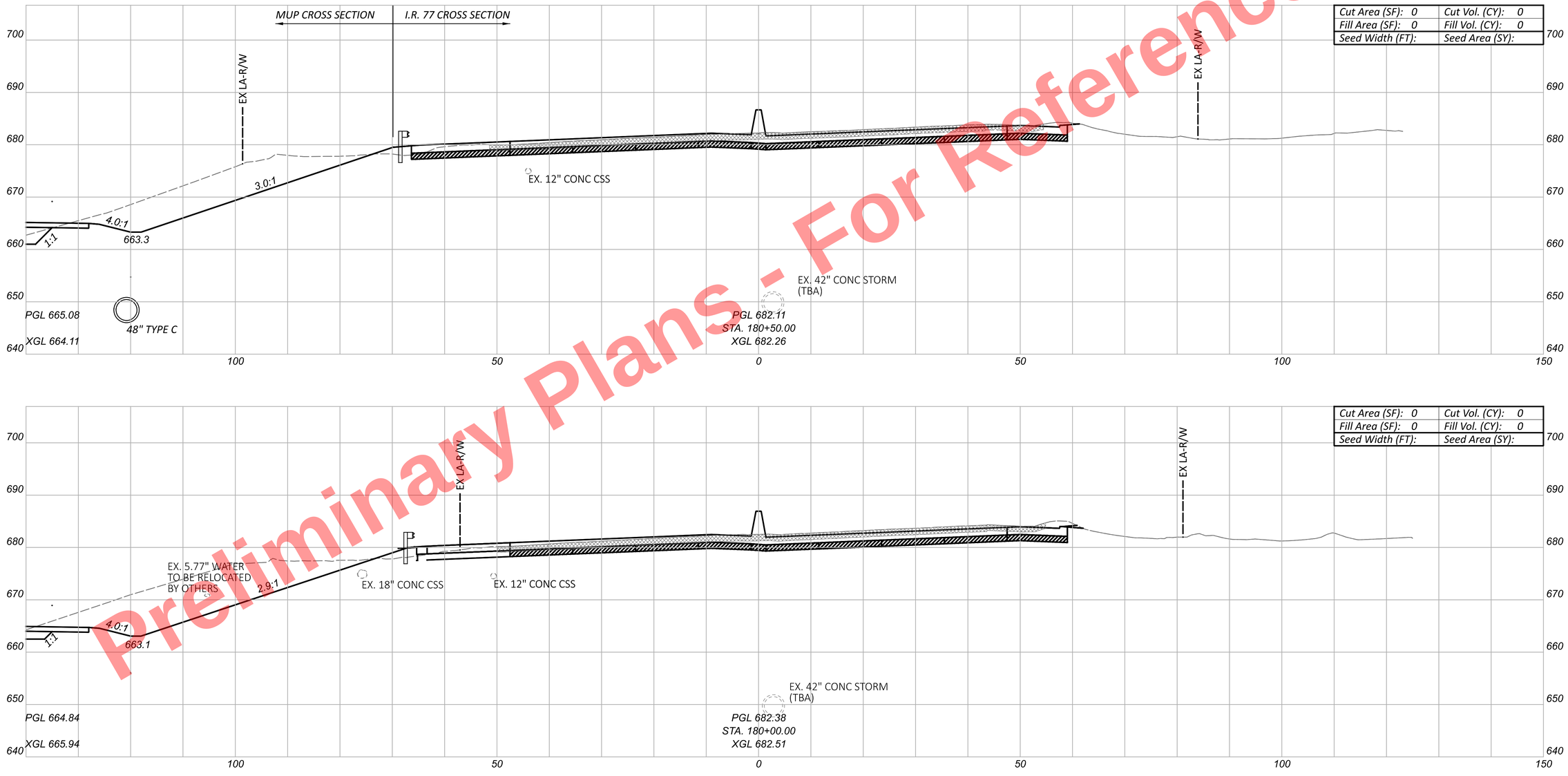
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.426 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 180+00.00 TO STA. 180+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.427 TOTAL P.1135

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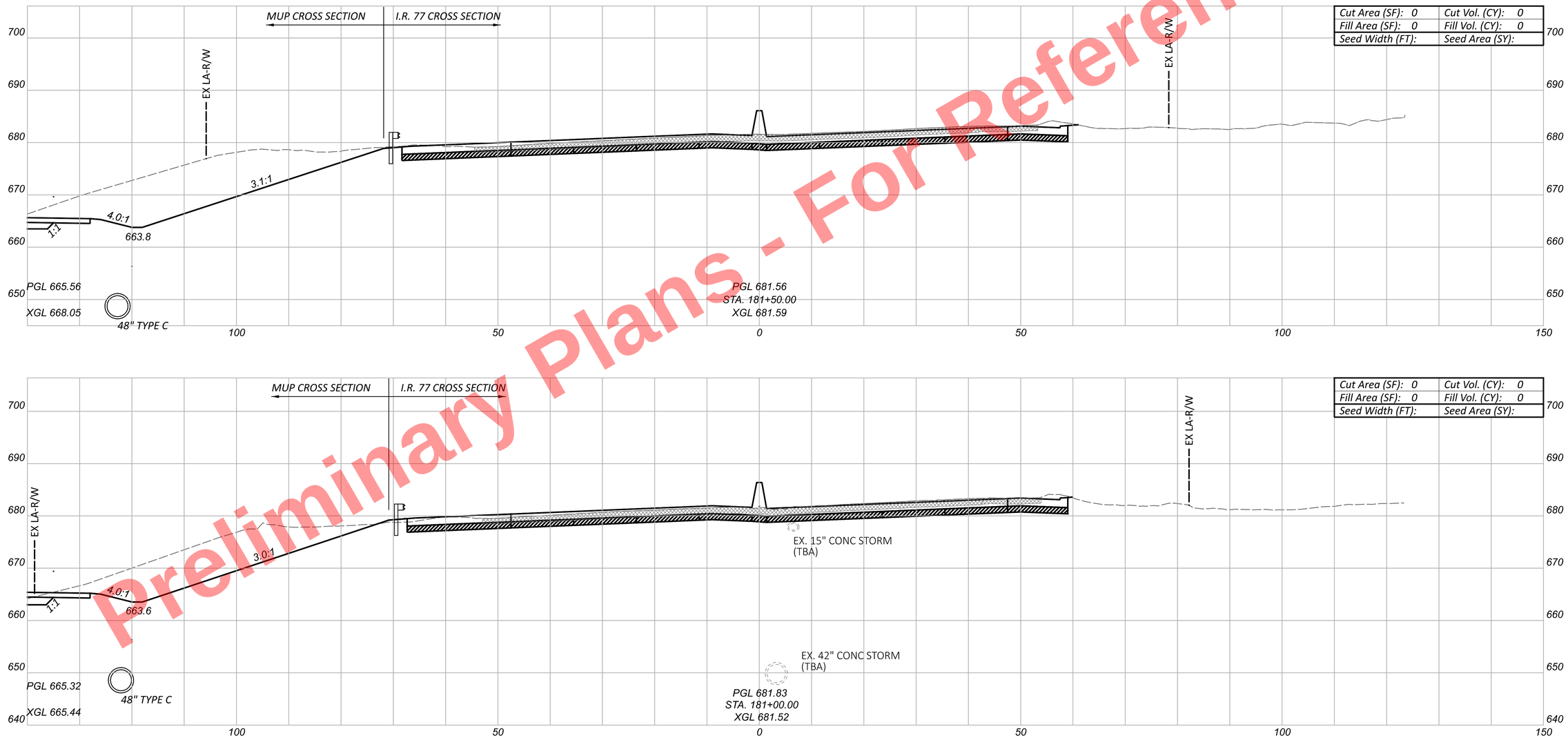
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 181+00.00 TO STA. 181+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

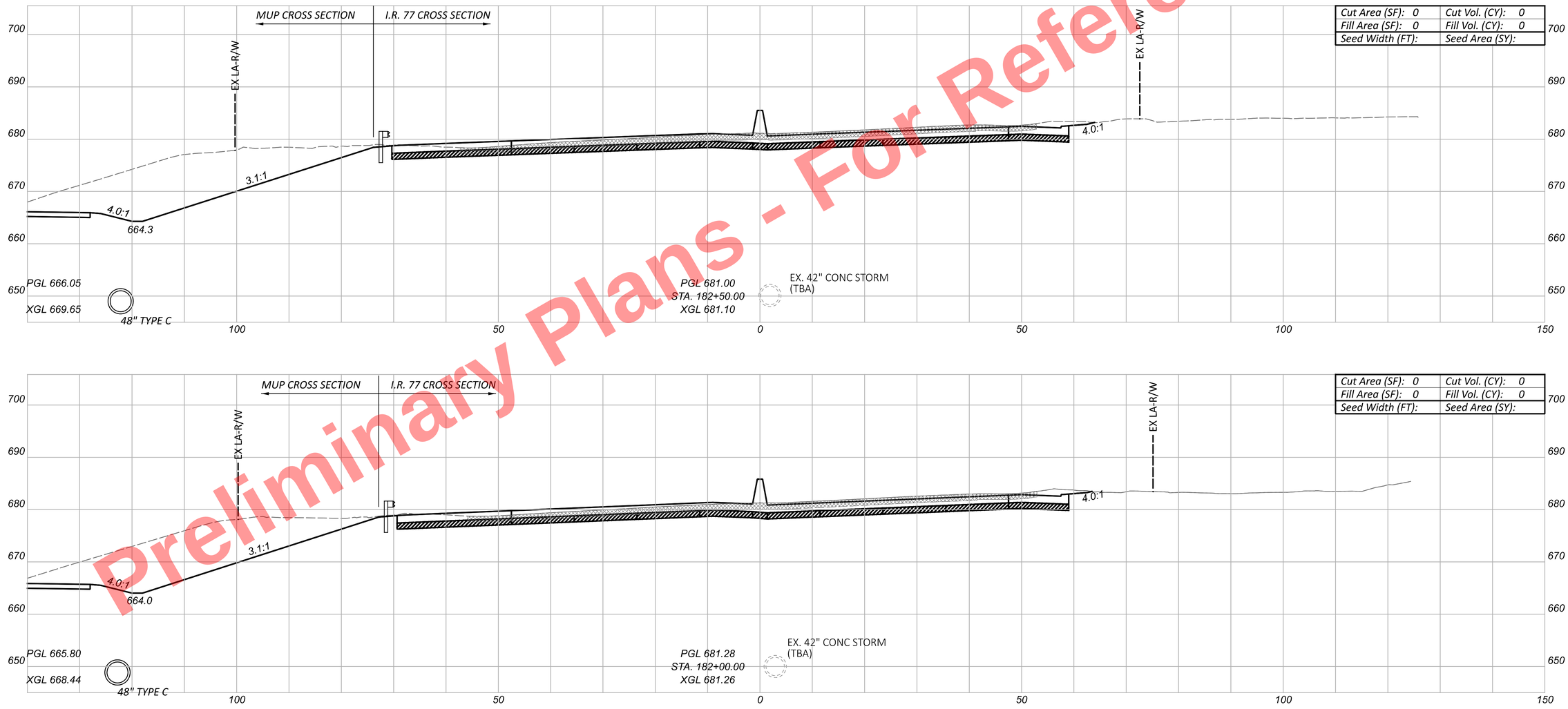
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.428 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 182+00.00 TO STA. 182+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.429 TOTAL P.1135

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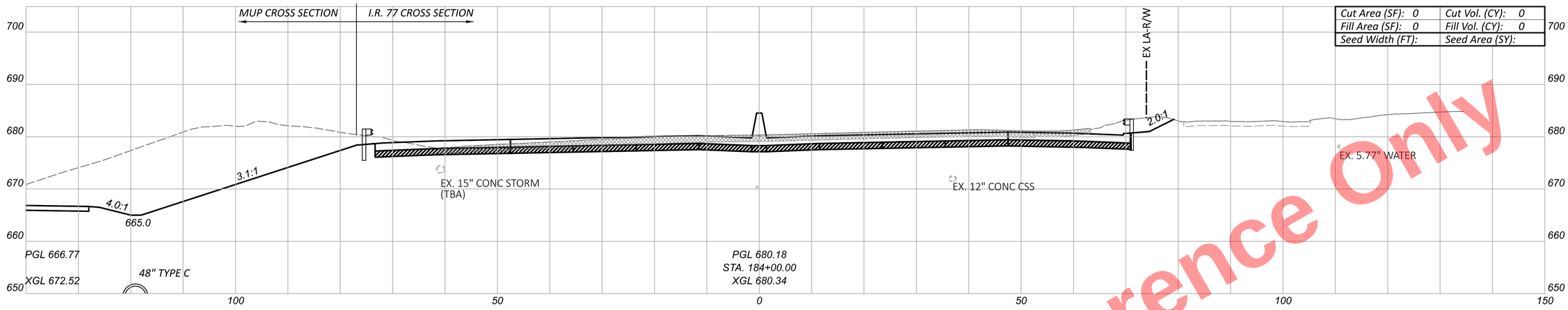


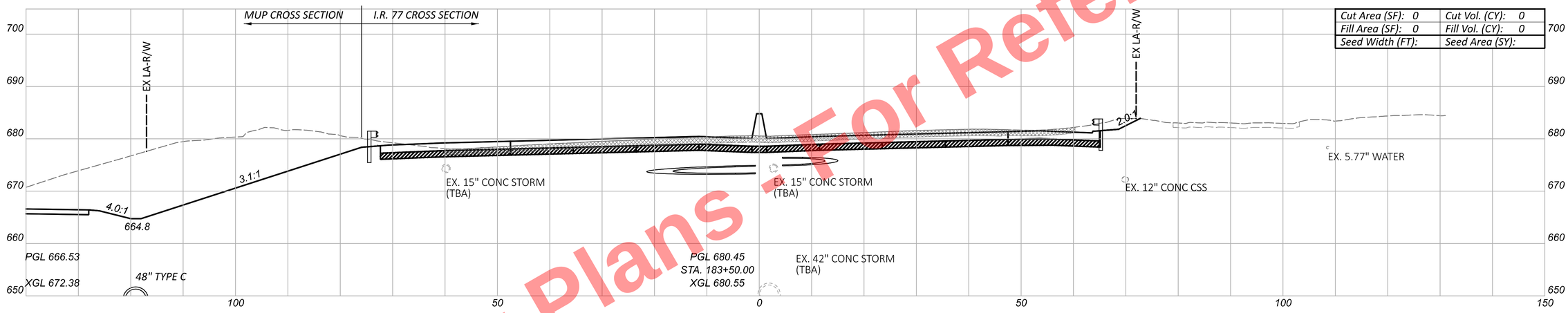


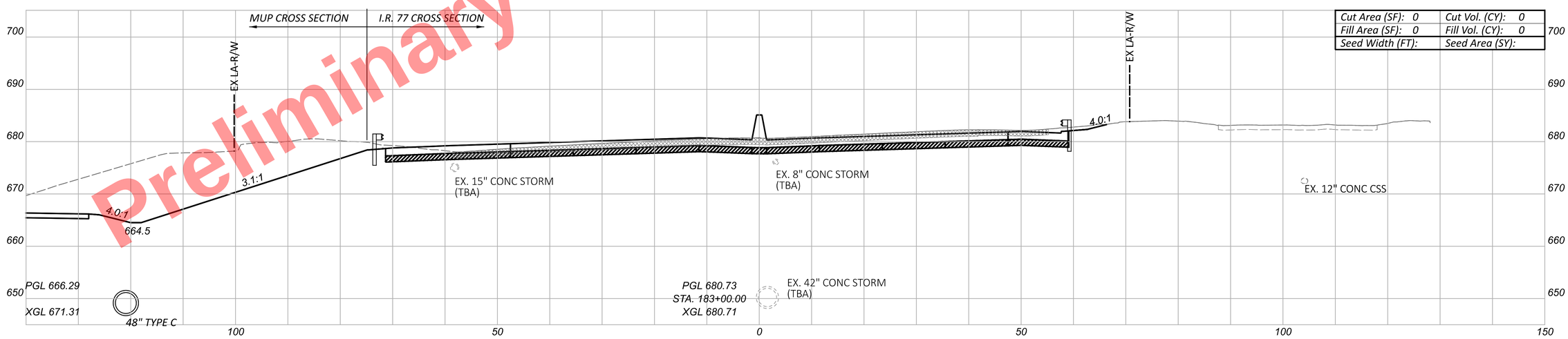


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 183+00.00 TO STA. 184+00.00

DESIGN AGENCY
HNTB

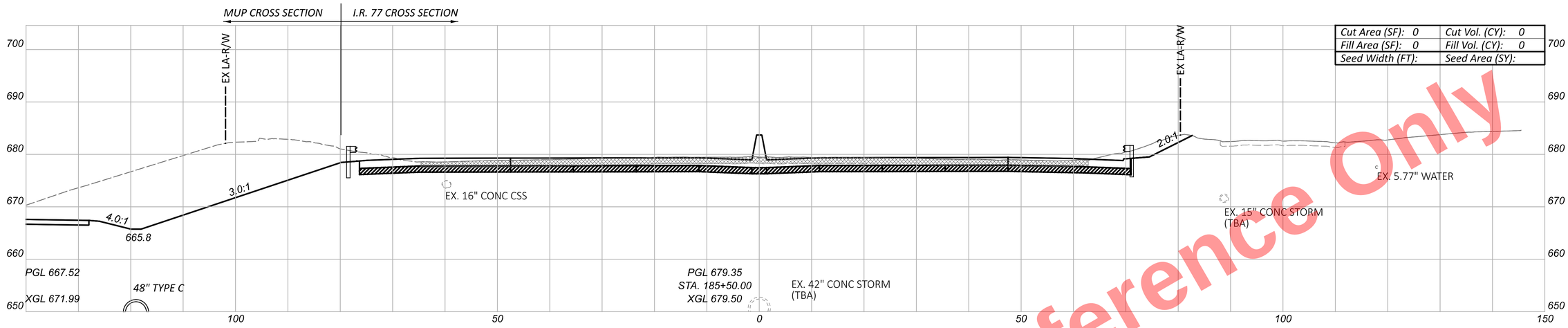
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.430 TOTAL P.1135




| | |
|---|---|
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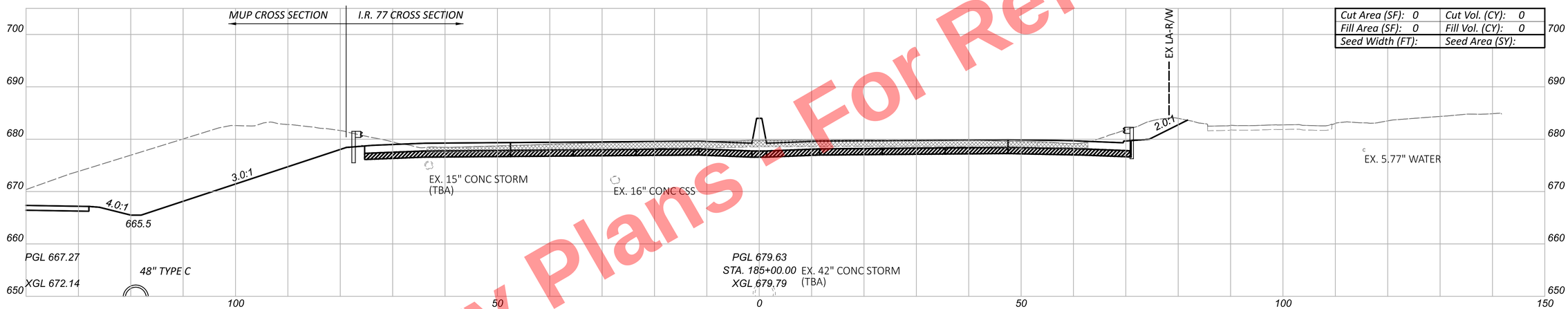
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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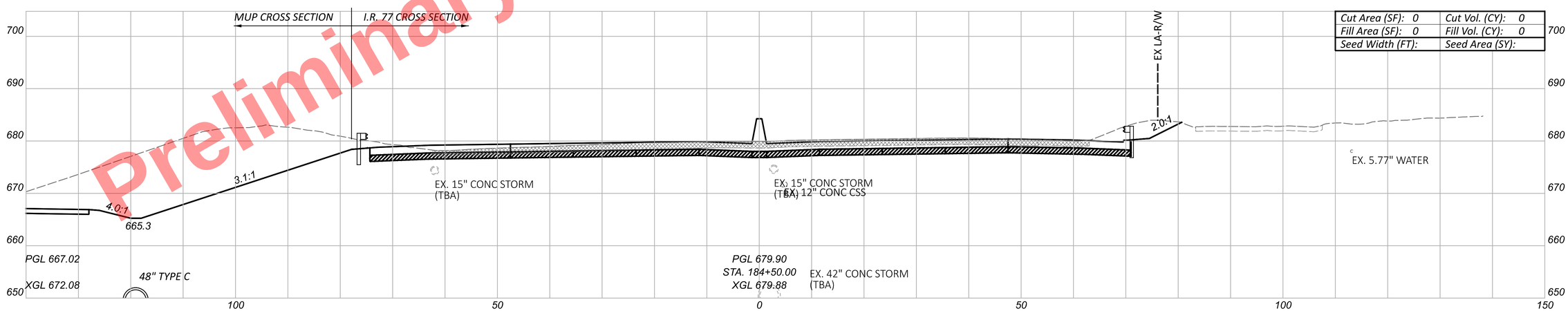
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 184+50.00 TO STA. 185+50.00

DESIGN AGENCY
HNTB

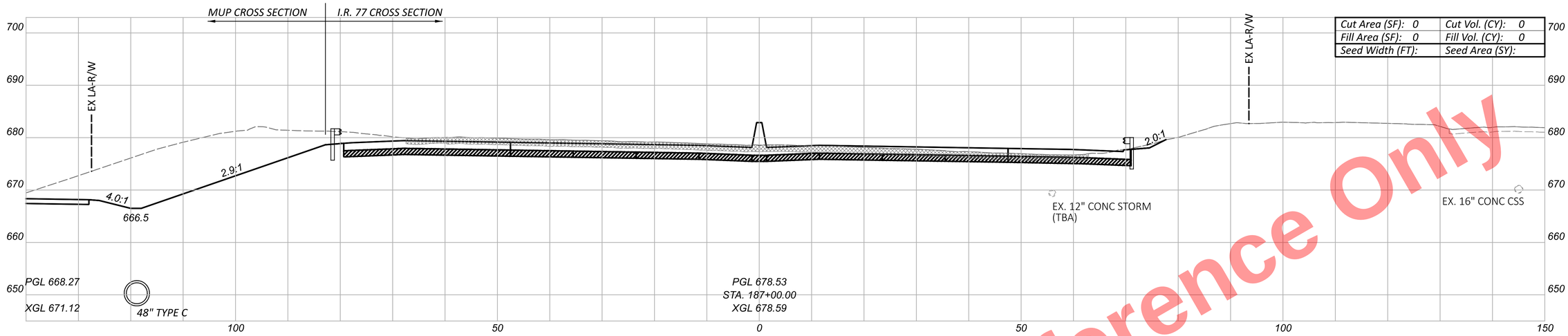
DESIGNER
EAP

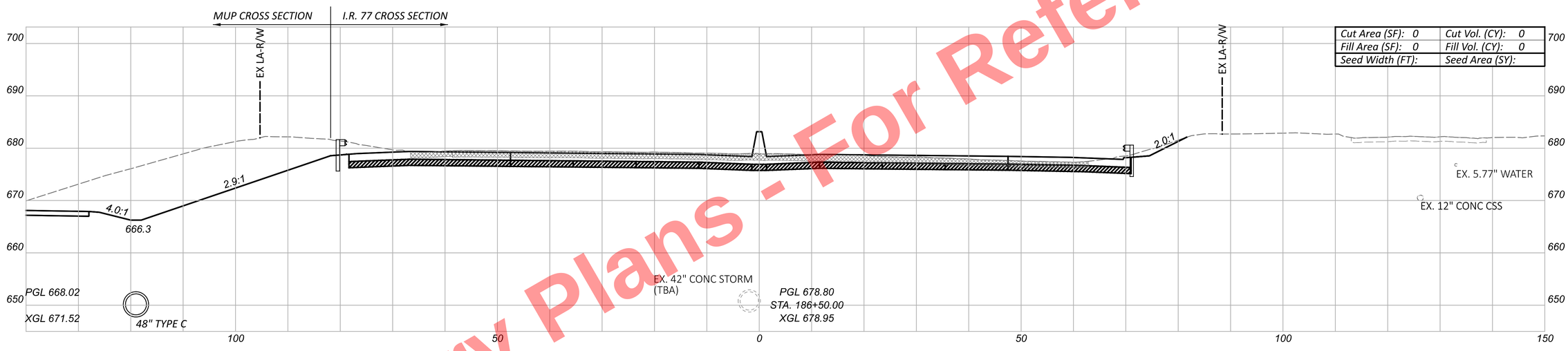
REVIEWER
MTR 04/01/22

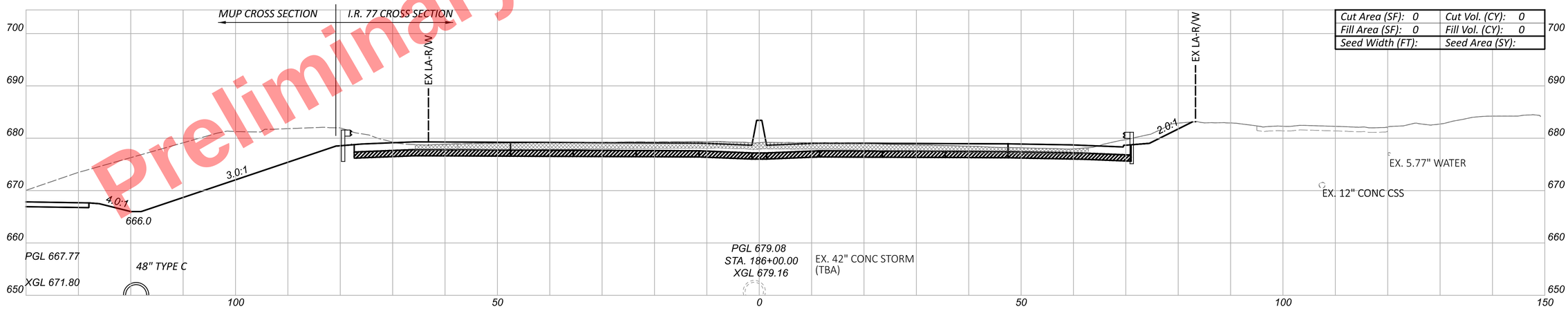
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.431 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 186+00.00 TO STA. 187+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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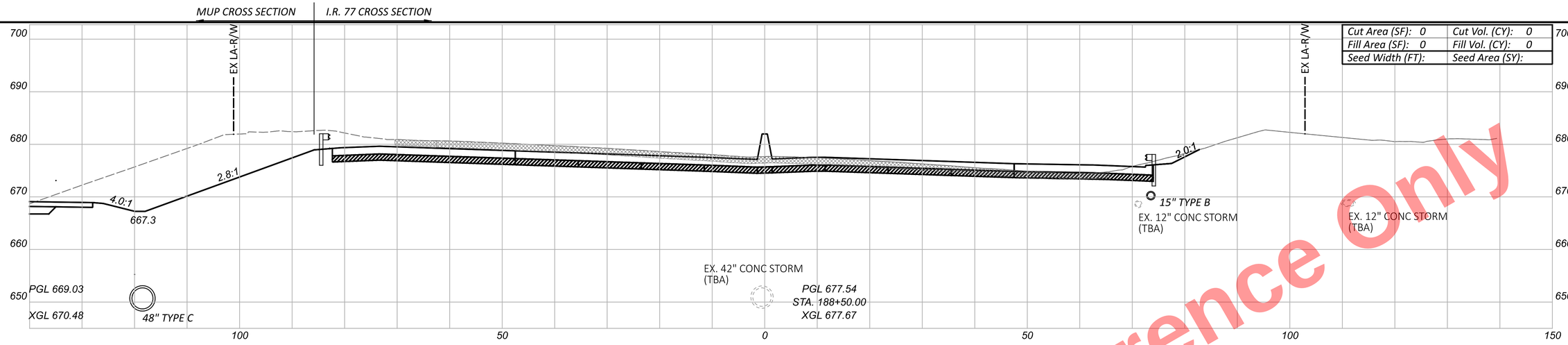
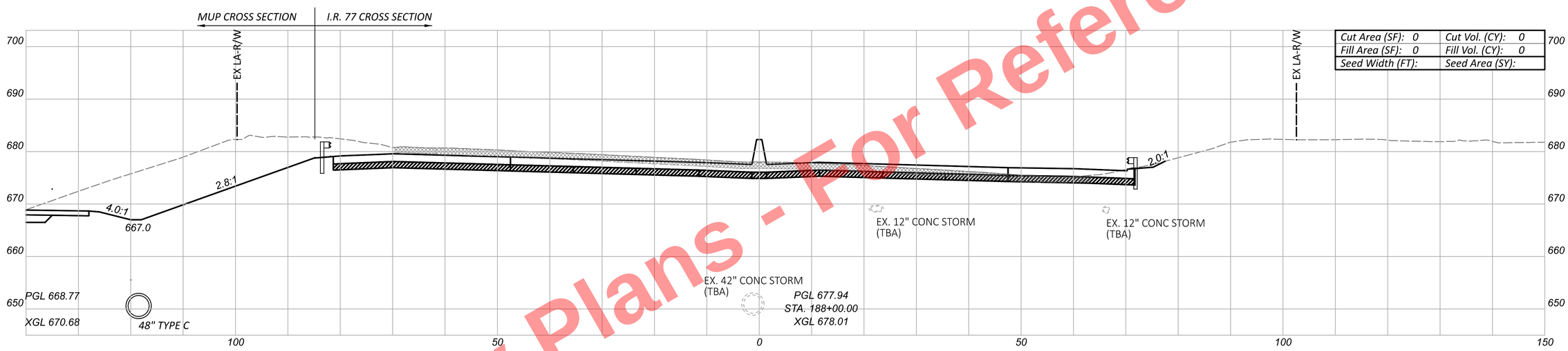
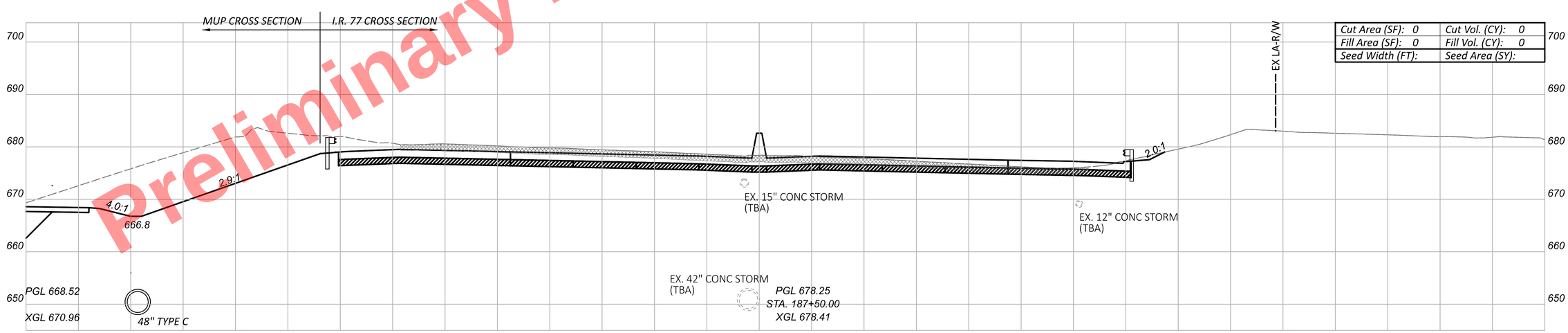
SHEET P.432 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 187+50.00 TO STA. 188+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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| SHEET | TOTAL |
|---|---|
| P.433 | P.1135 |

CUY-77-11.43 - PART 1

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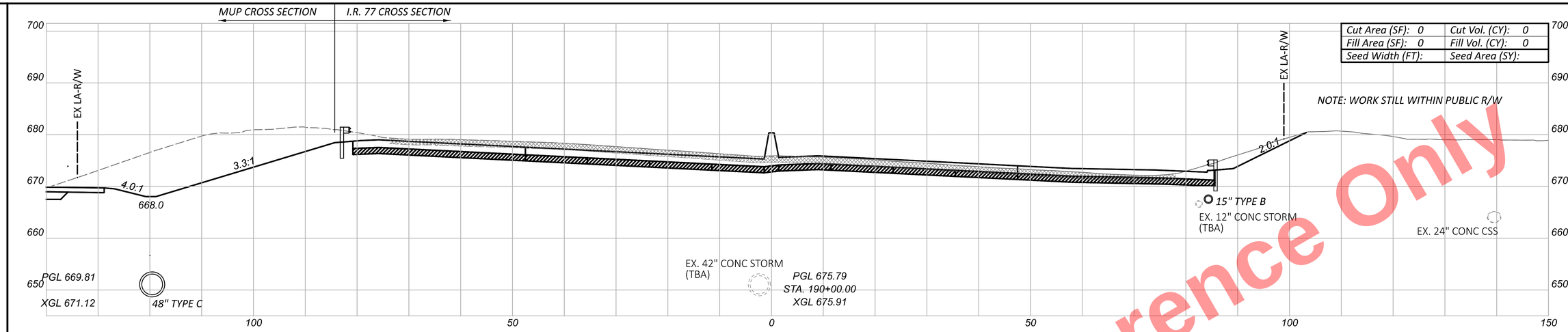
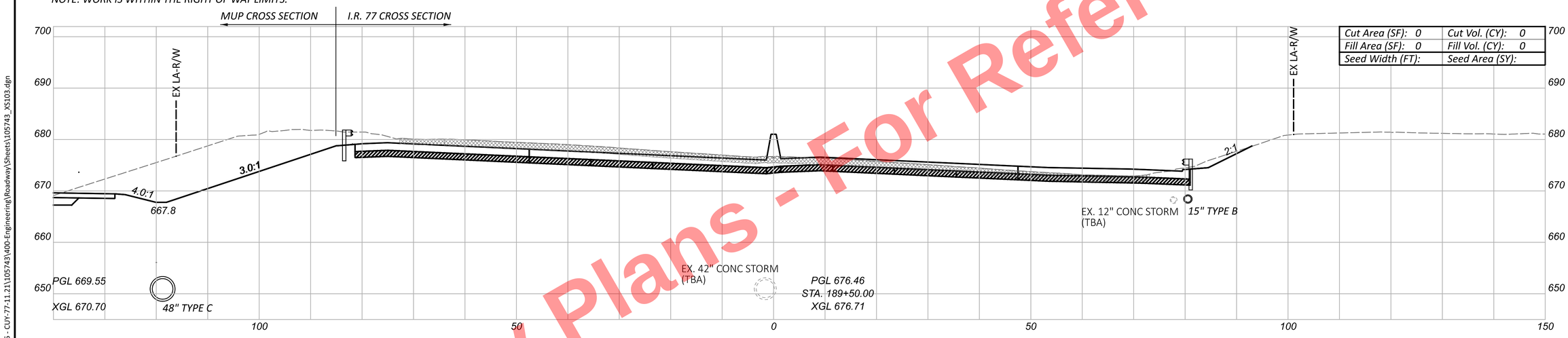
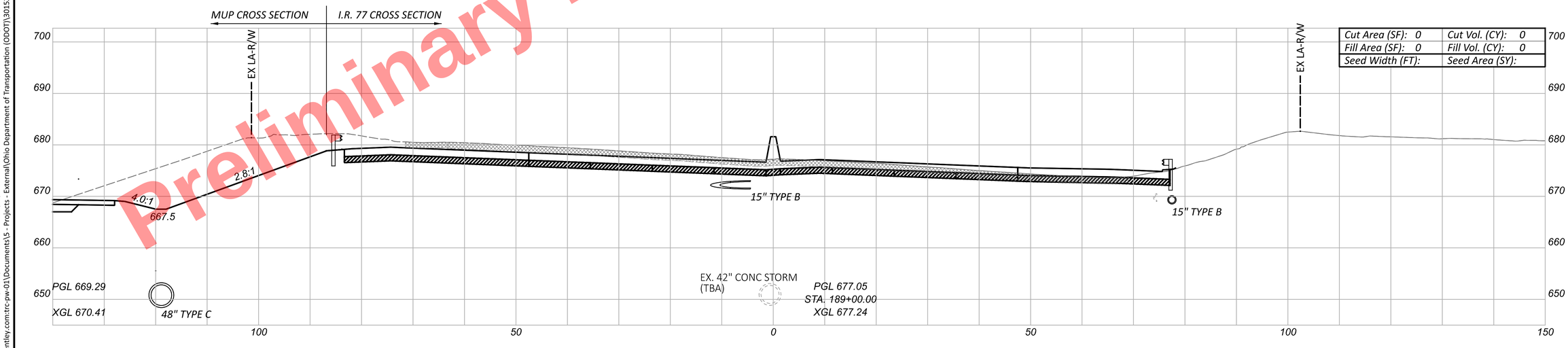



NOTE: WORK IS WITHIN THE RIGHT OF WAY LIMITS.




Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 189+00.00 TO STA. 190+00.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.434 TOTAL P.1135

CUY-77-11.43 - PART 1

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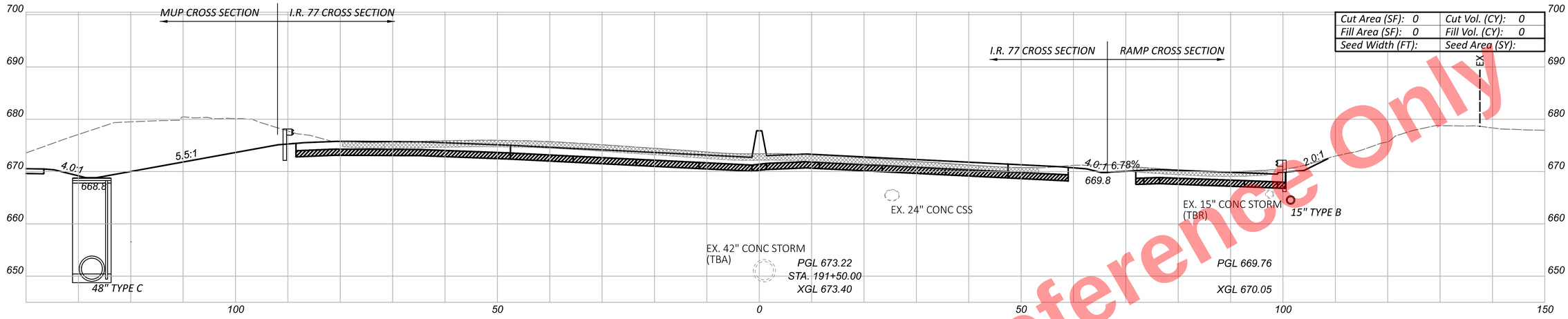


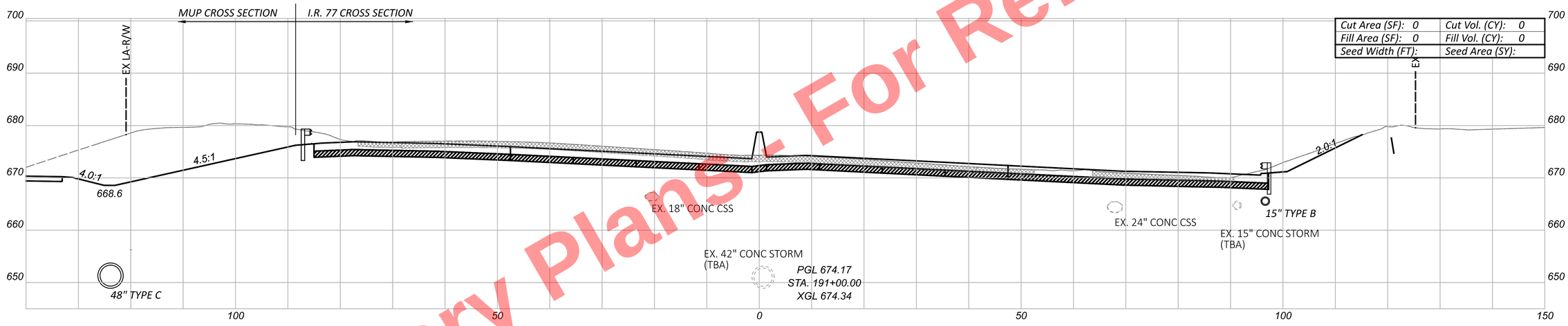


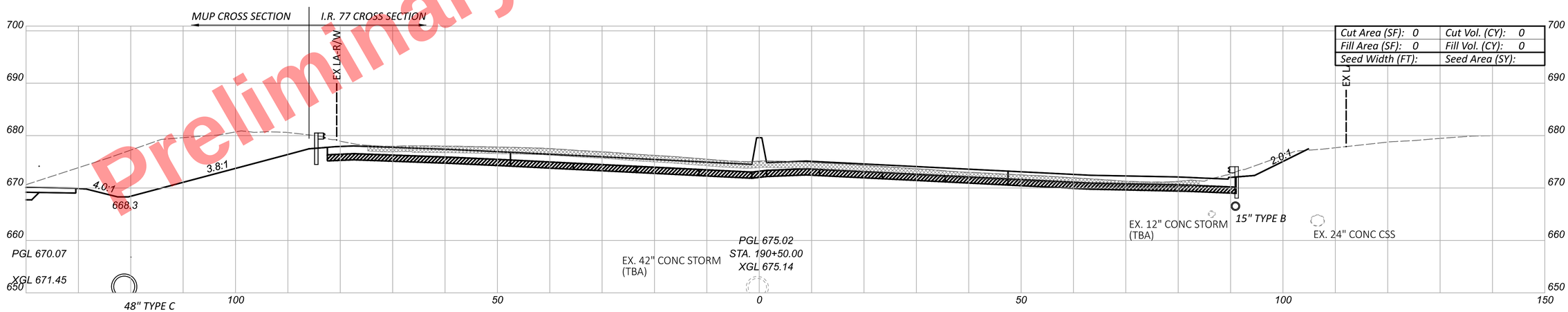


Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 190+50.00 TO STA. 191+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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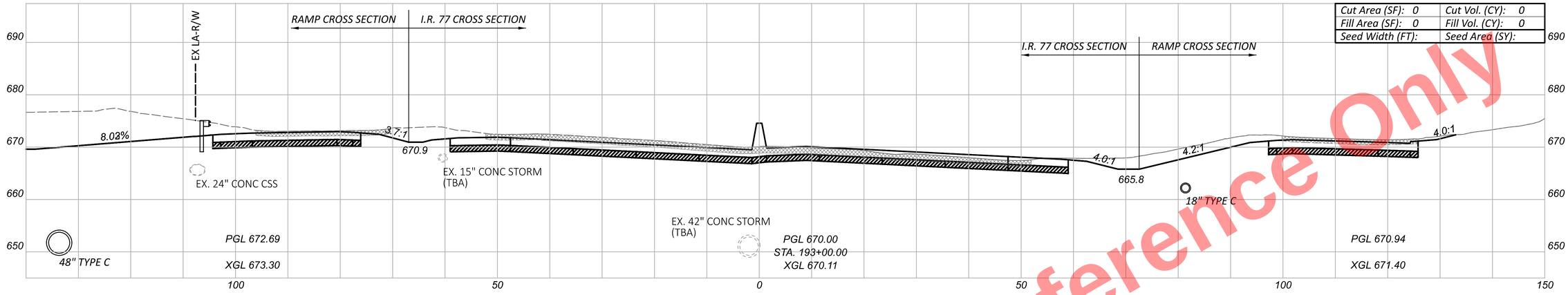
| SHEET | TOTAL |
|---|---|
| P.435 | P.1135 |




| | |
|---|---|
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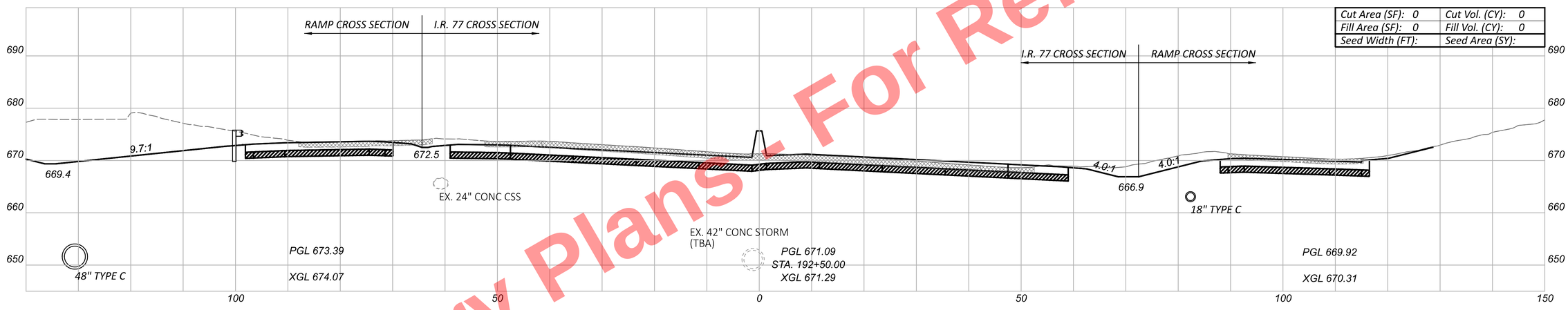
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

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|---|---|
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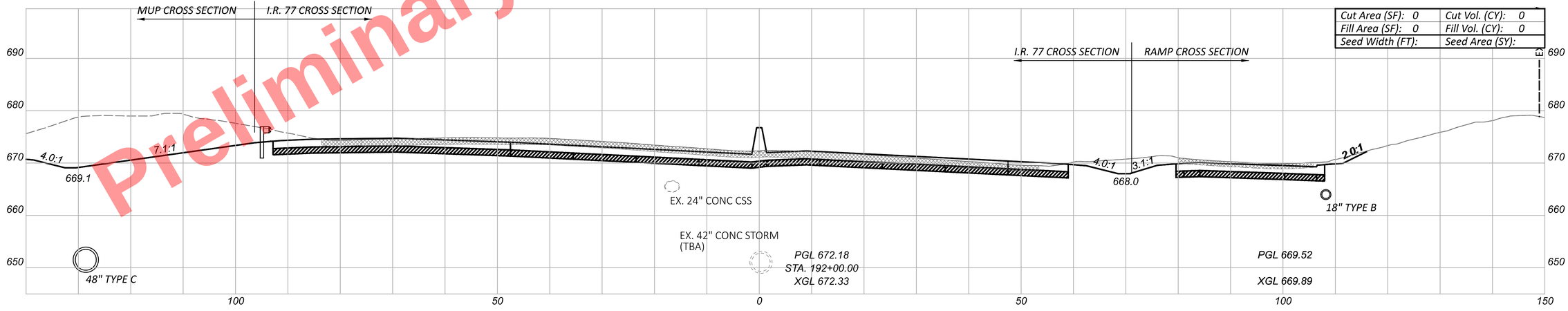
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 192+00.00 TO STA. 193+00.00

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 192+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:21:11 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

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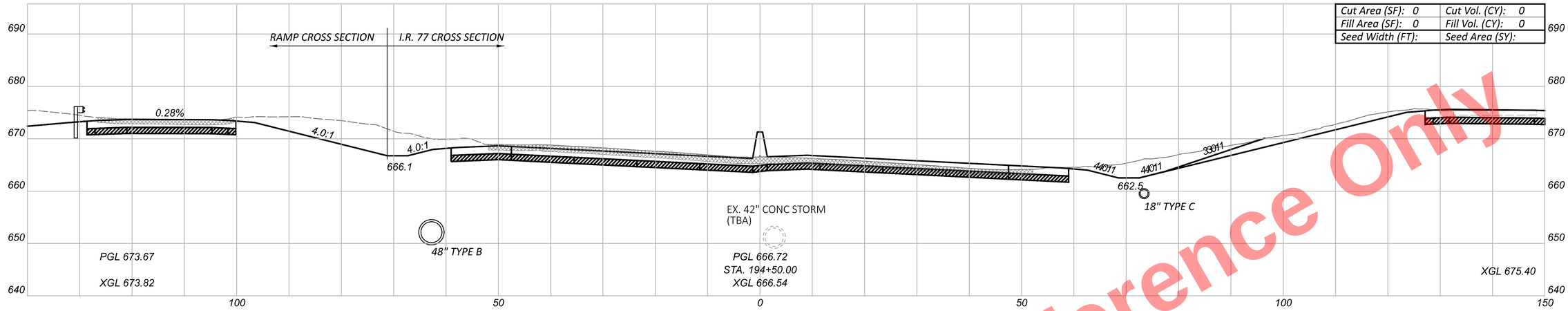
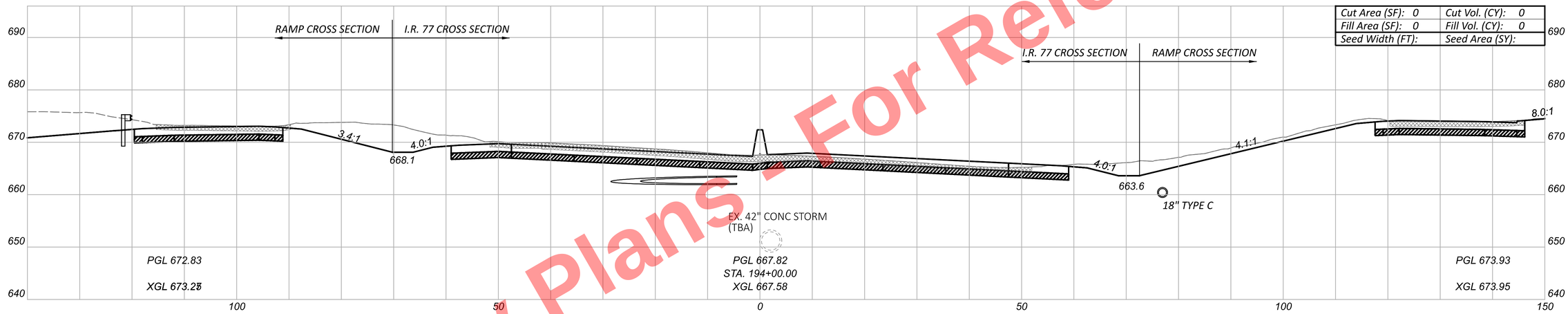
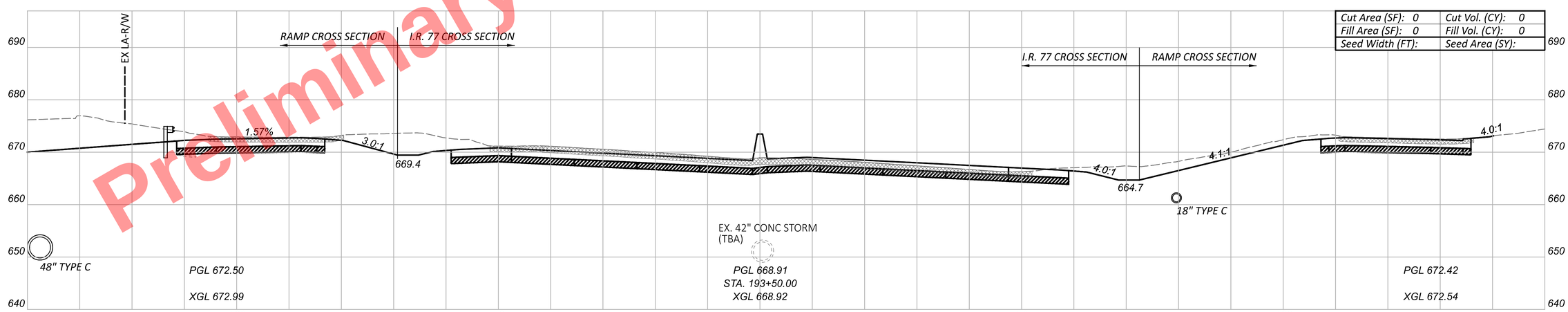
|---|---|
| DESIGNER | EAP |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.436 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 193+50.00 TO STA. 194+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

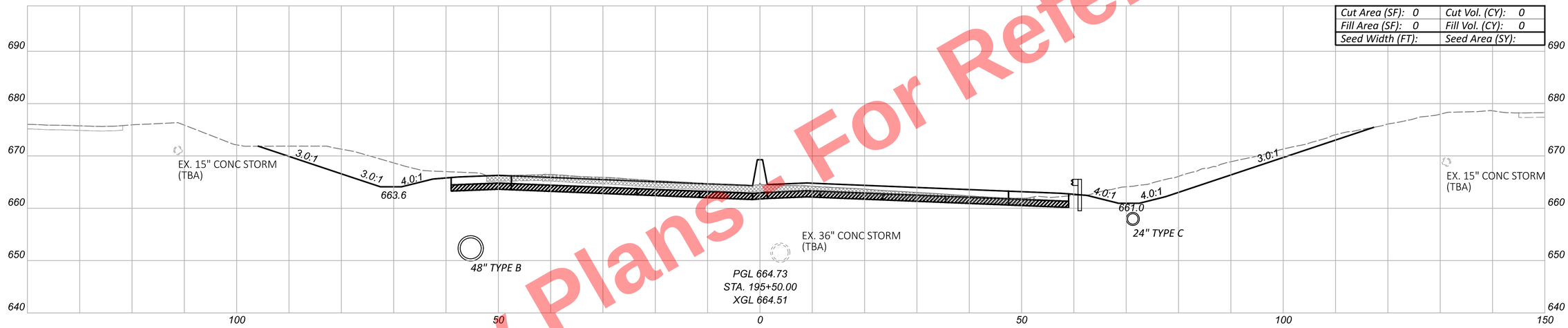
DESIGNER
EAP

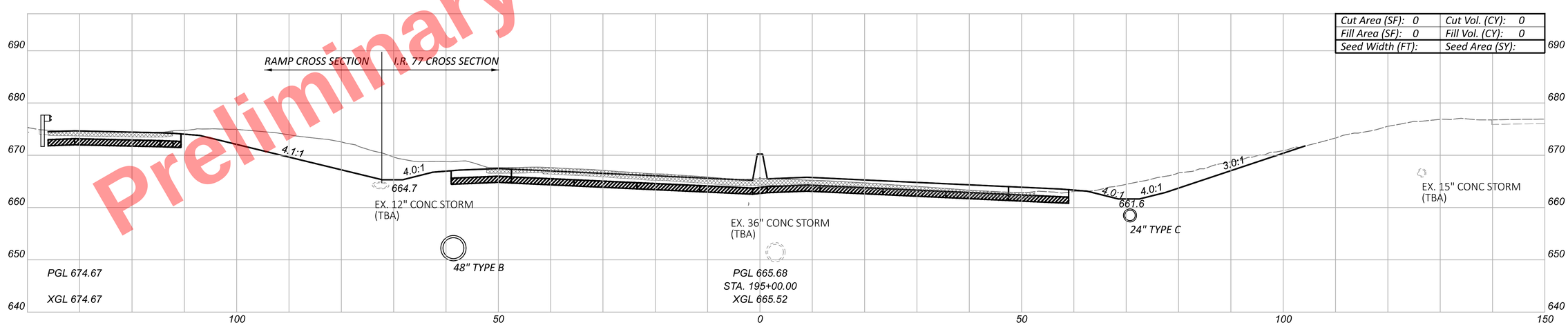
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.437 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 195+00.00 TO STA. 195+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.438 TOTAL P.1135

CUY-77-11.43 - PART 1

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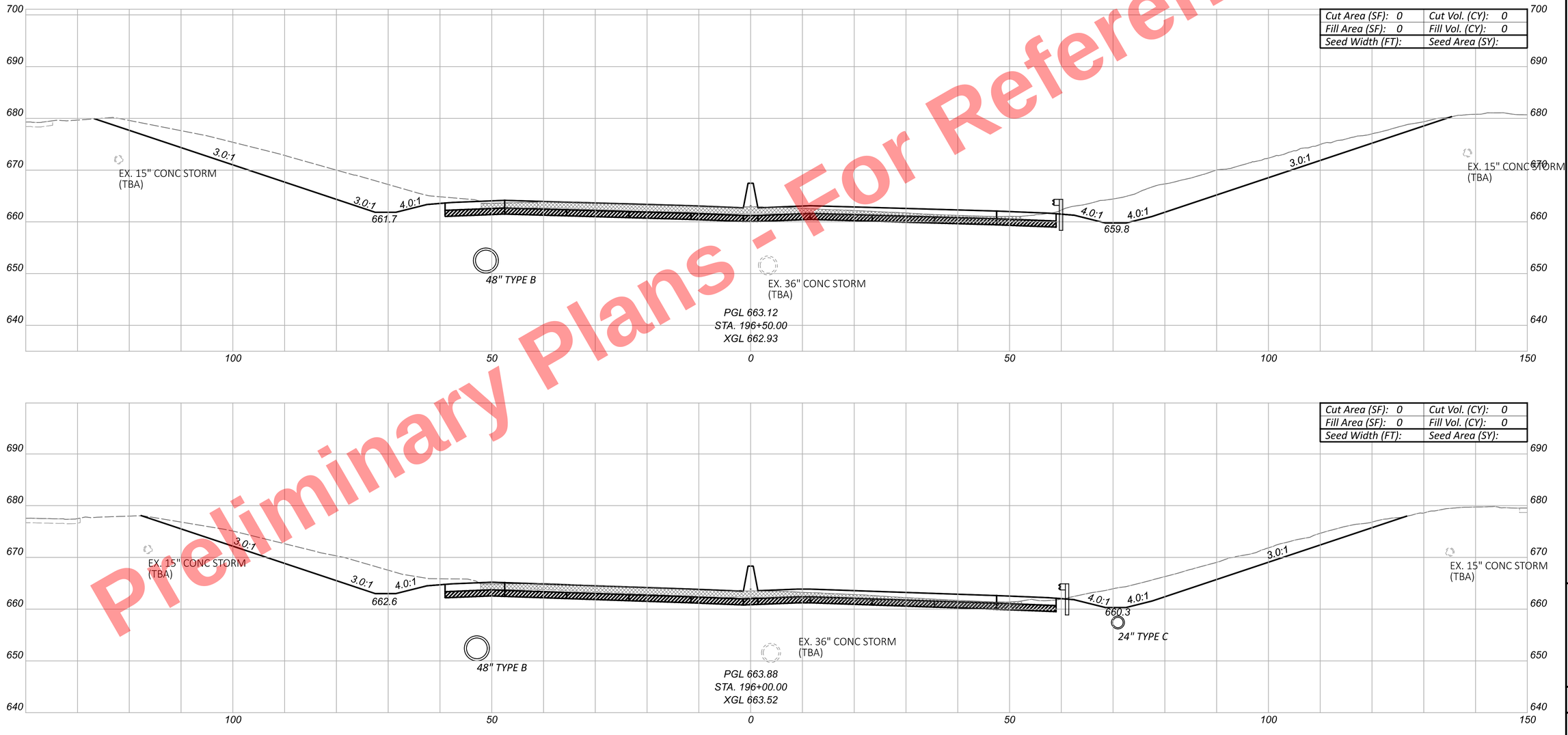
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 196+00.00 TO STA. 196+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.439 TOTAL P.1135

CUY-77-11.43 - PART 1

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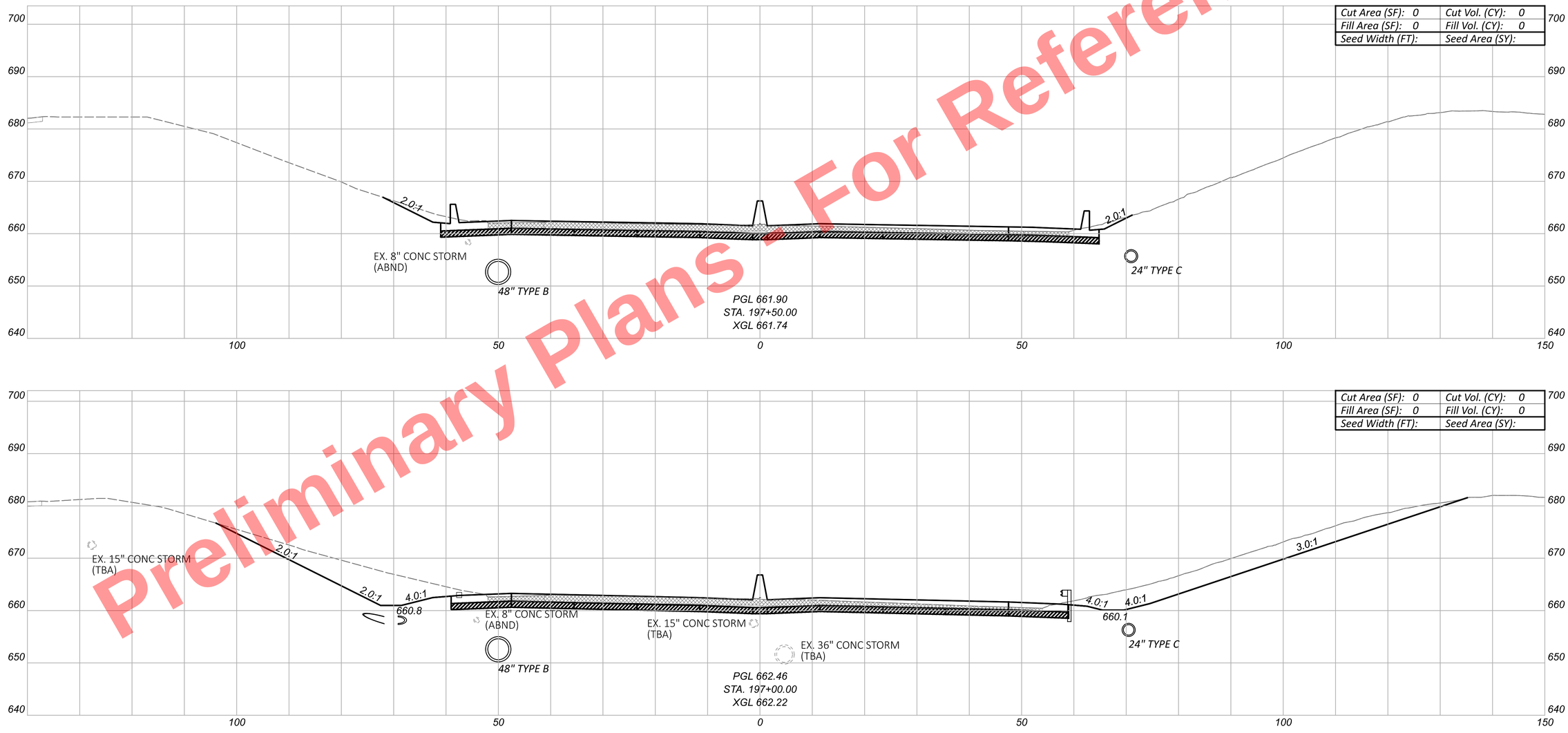
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 197+00.00 TO STA. 197+50.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

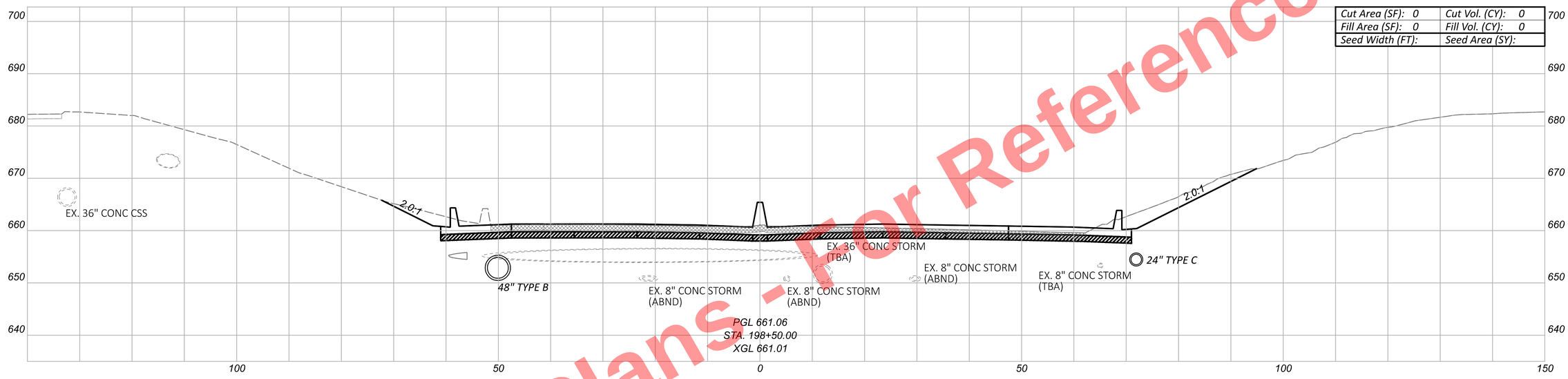
DESIGNER
EAP

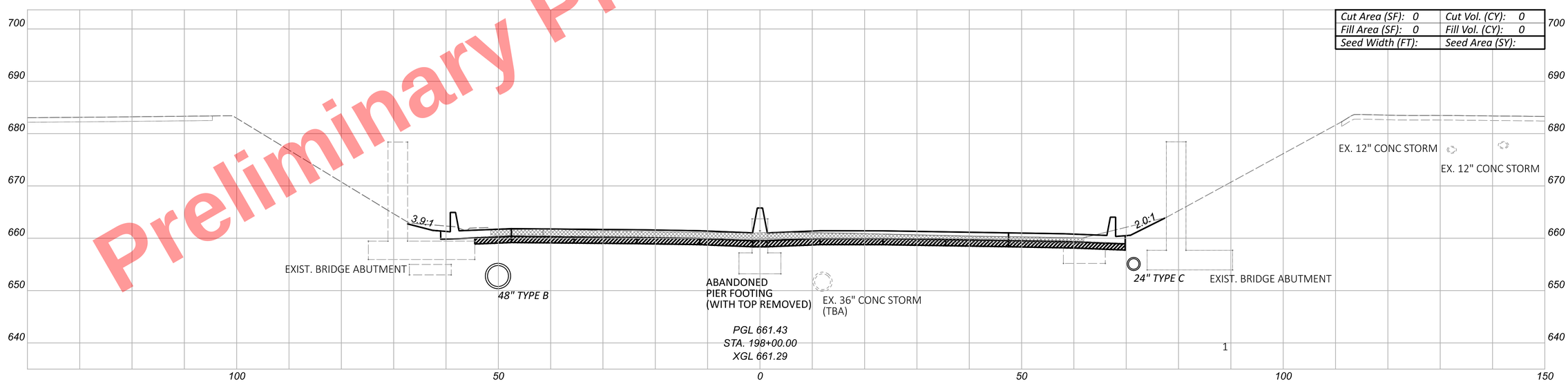
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.440 TOTAL P.1135

Preliminary Plans - For Reference Only

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CROSS SECTIONS - I.R. 77
STA. 198+00.00 TO STA. 198+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
EAP

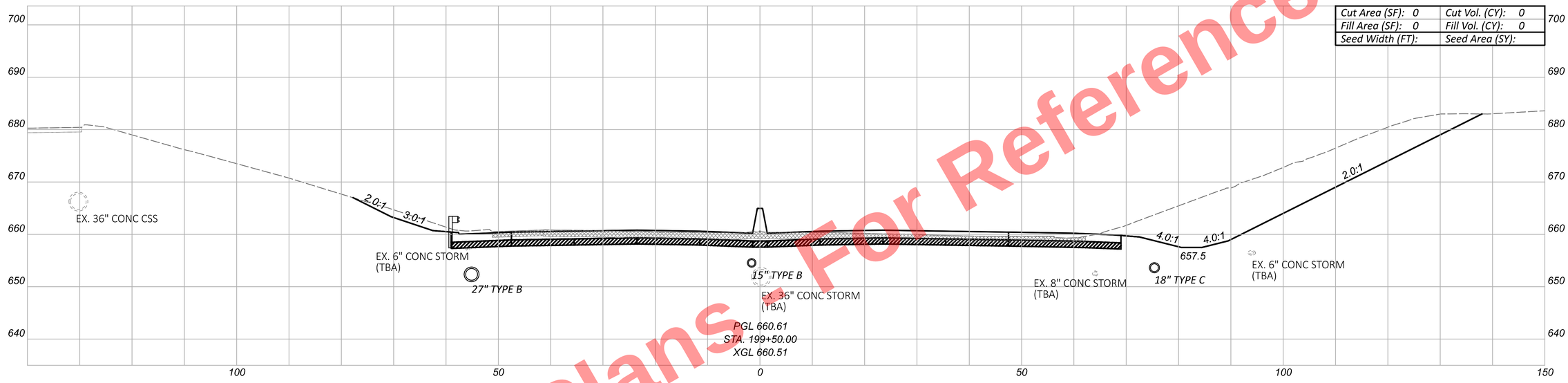
REVIEWER
MTR 04/01/22

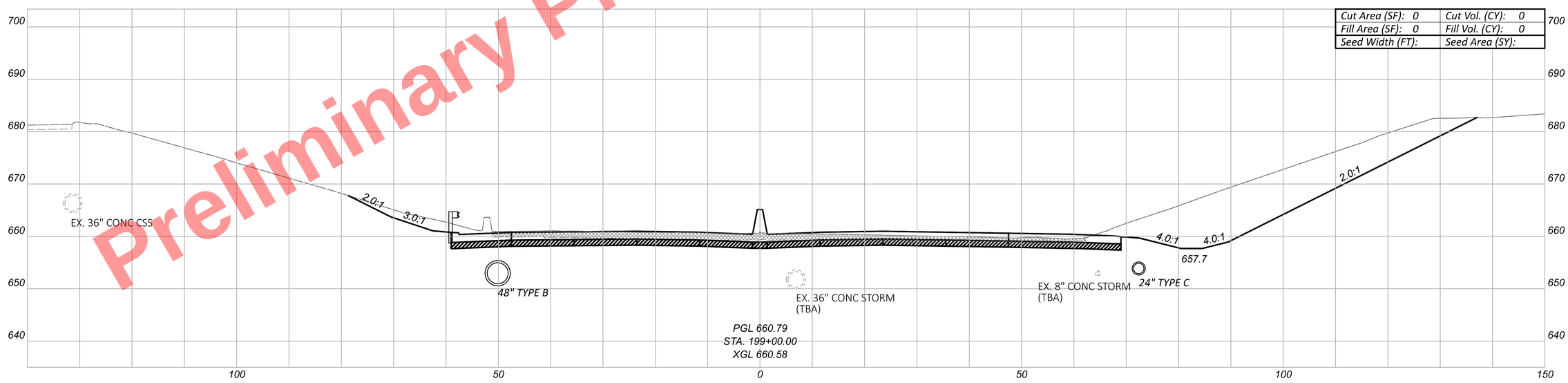
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.441 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 199+00.00 TO STA. 199+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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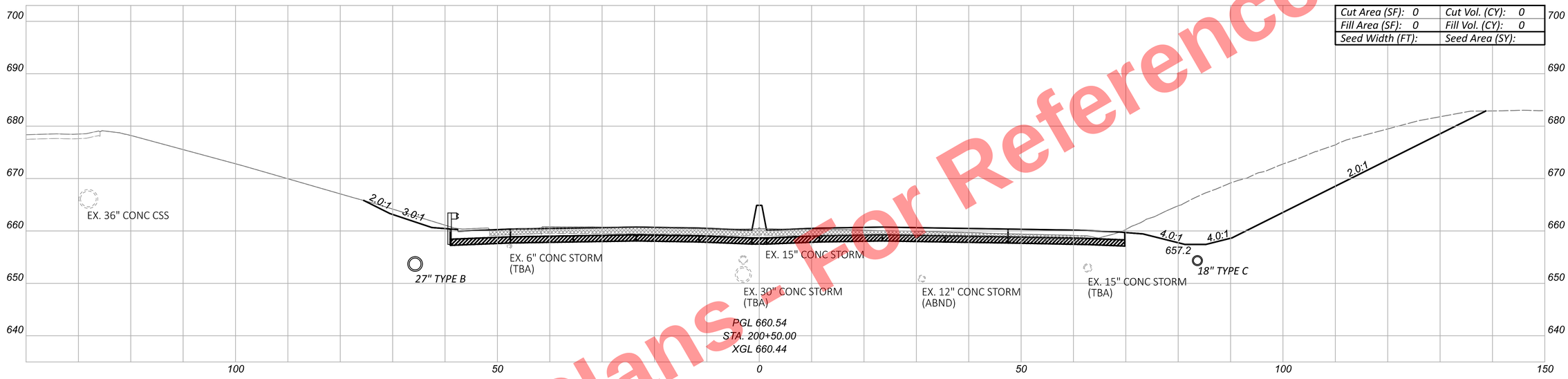
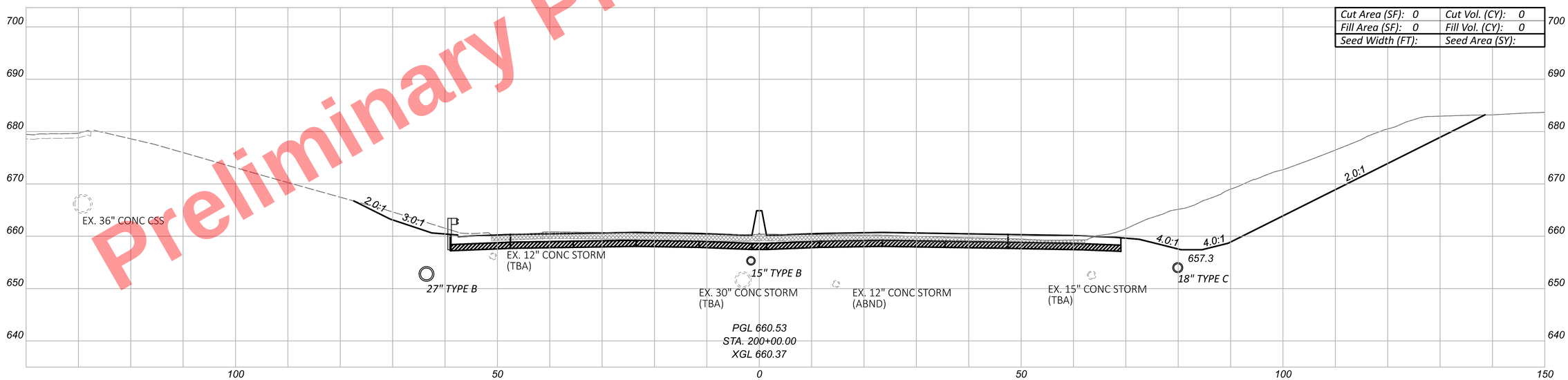
SHEET P.442 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 200+00.00 TO STA. 200+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.443 | TOTAL P.1135

CUY-77-11.43 - PART 1

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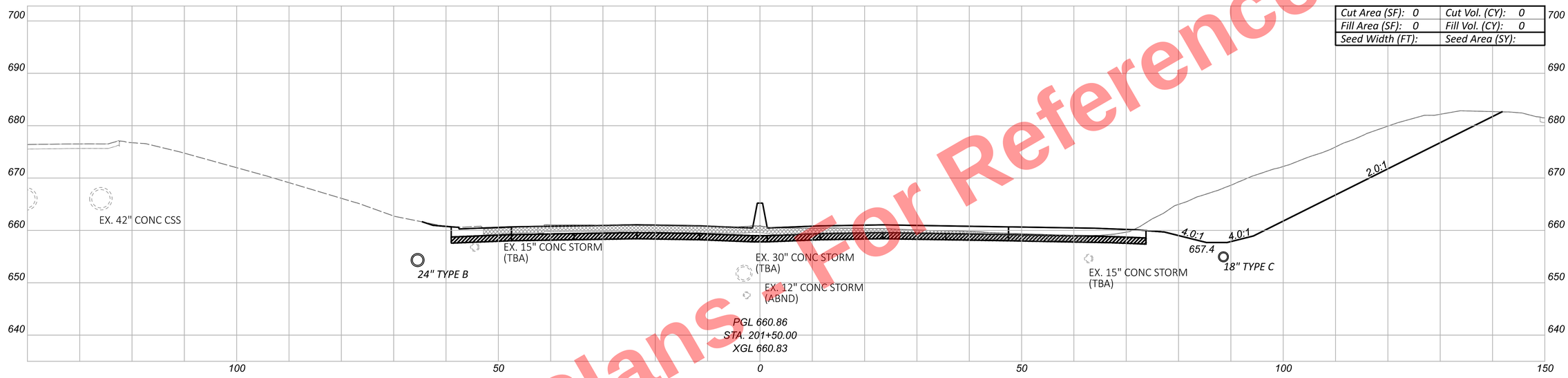
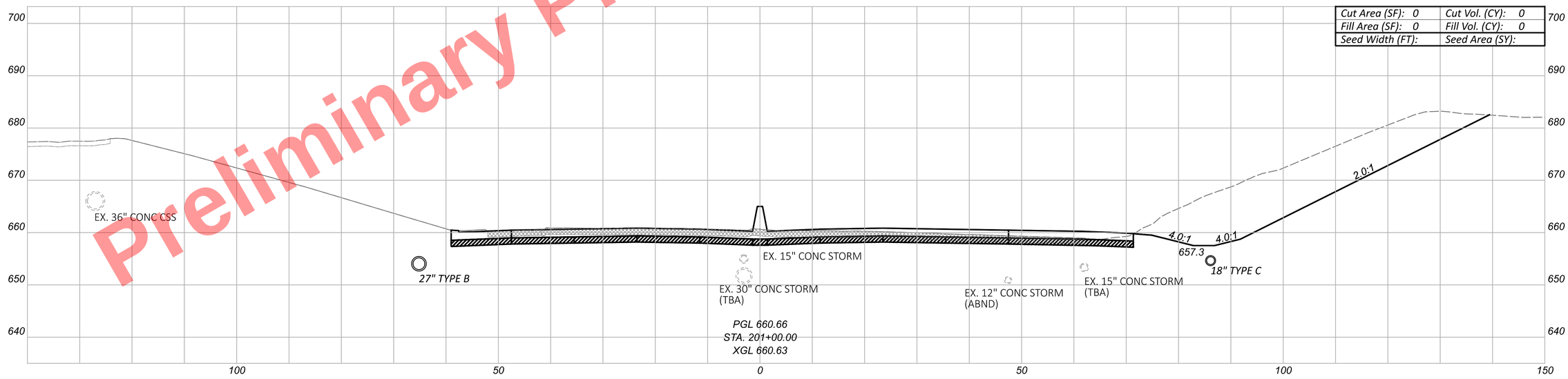
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 201+00.00 TO STA. 201+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.444 TOTAL P.1135

Sheet Totals

| Seeding | Cut | Fill |
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CUY-77-11.43 - PART 1

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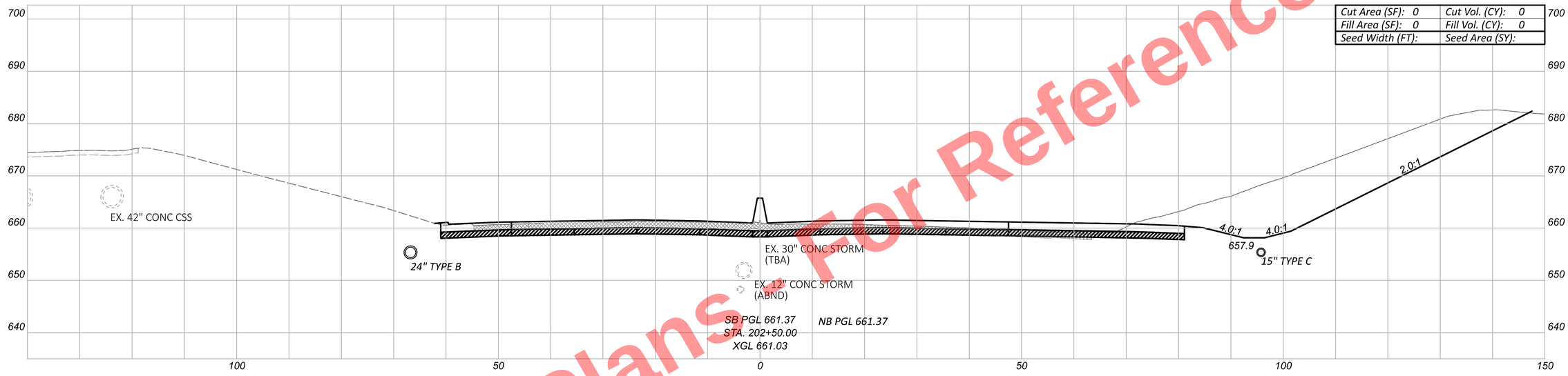
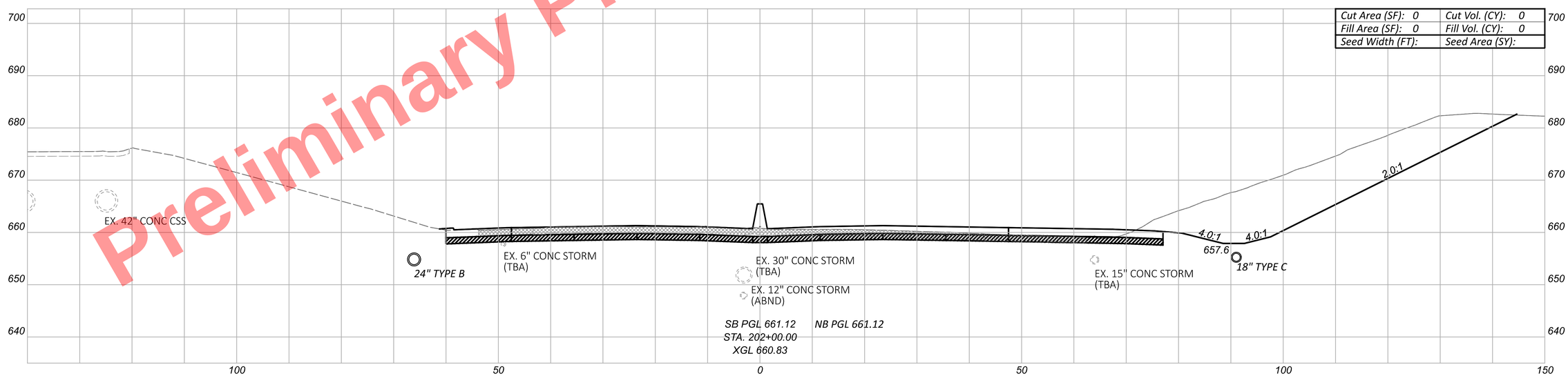
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 202+00.00 TO STA. 202+50.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

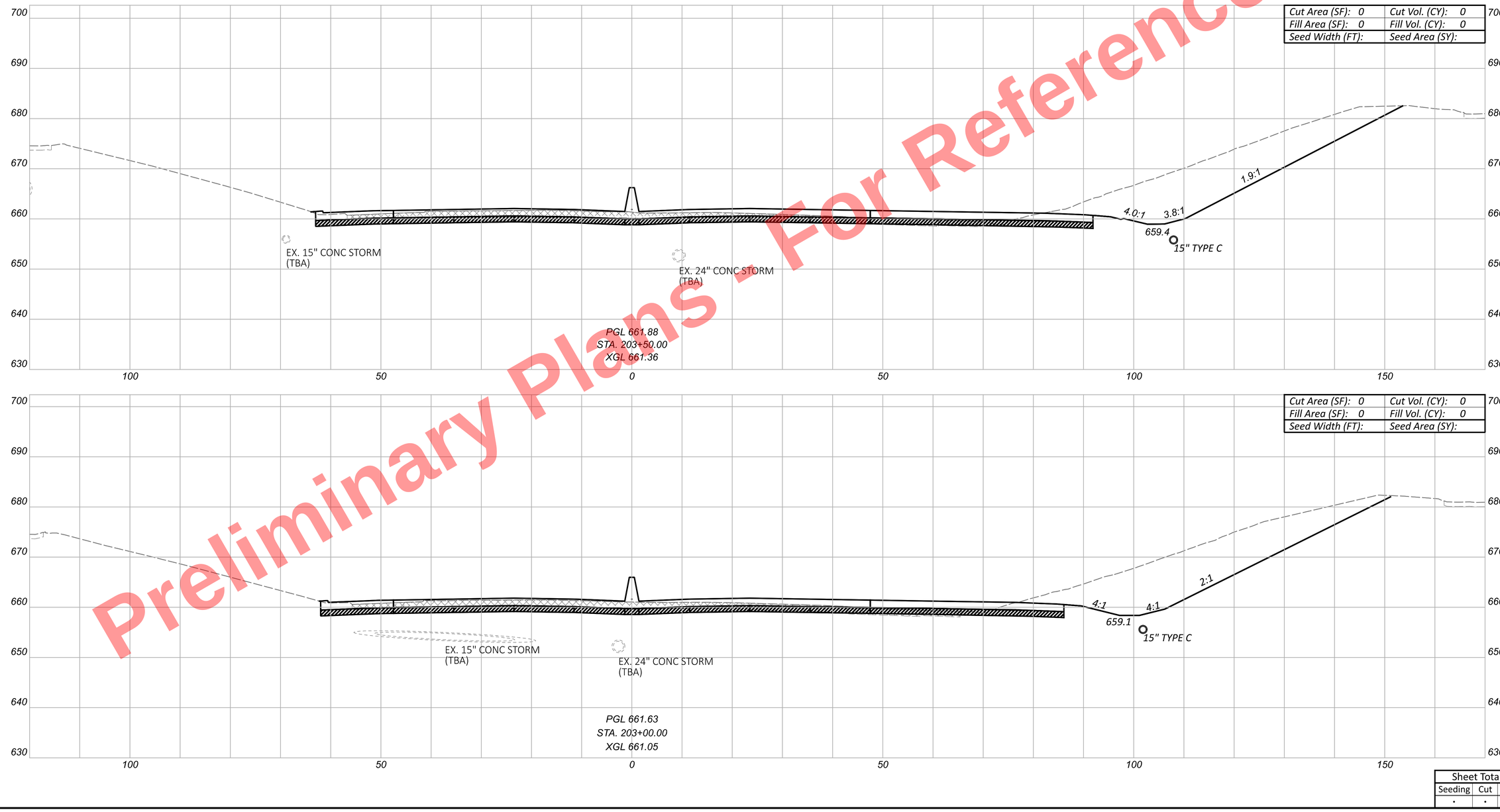
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.445 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 203+00.00 TO STA. 203+50.00

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.446 TOTAL P.1135

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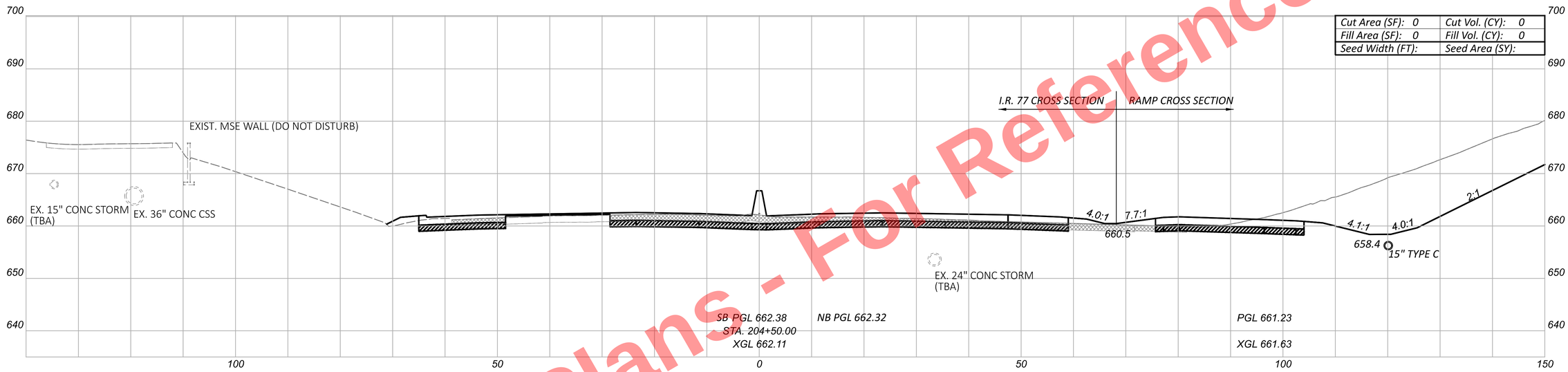


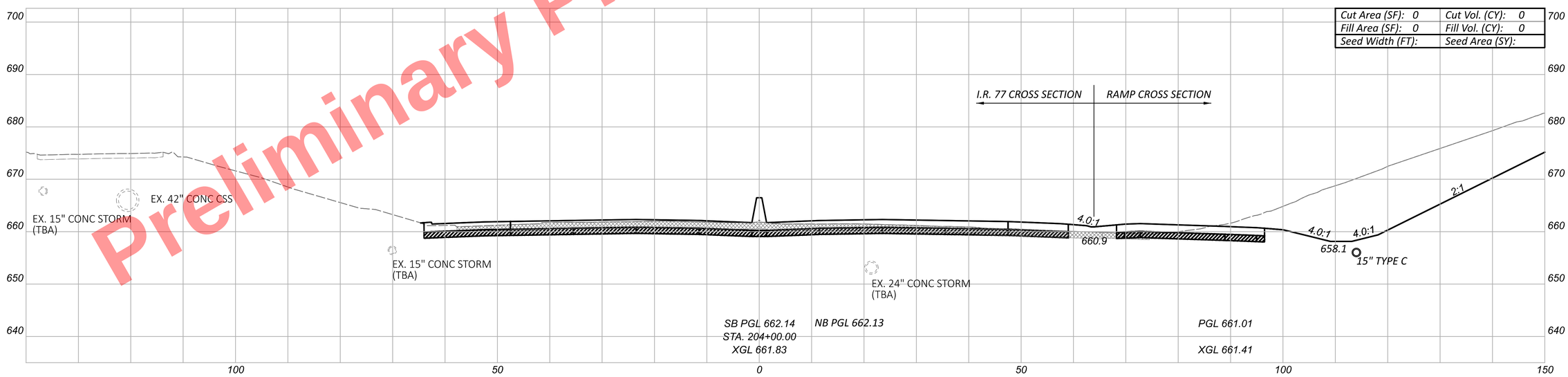


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 204+00.00 TO STA. 204+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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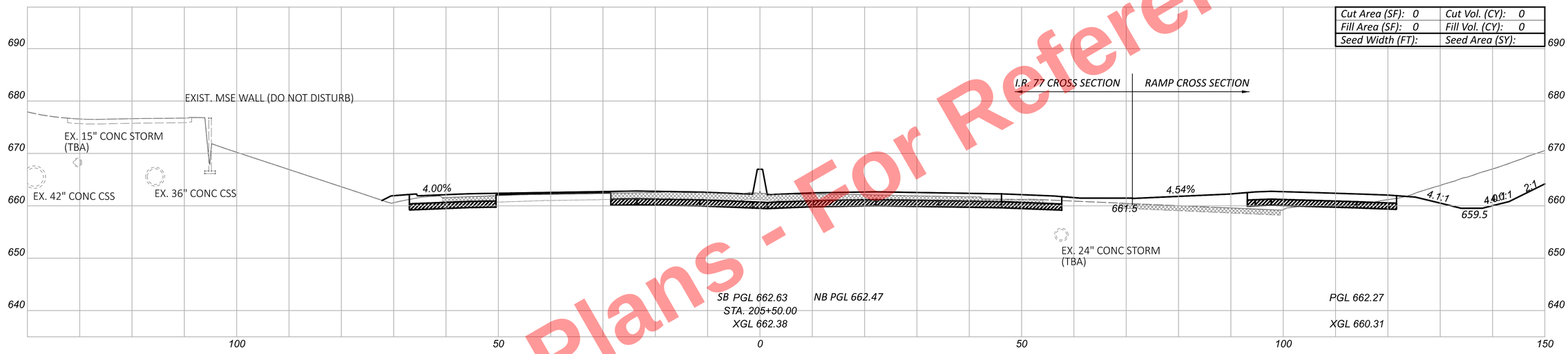
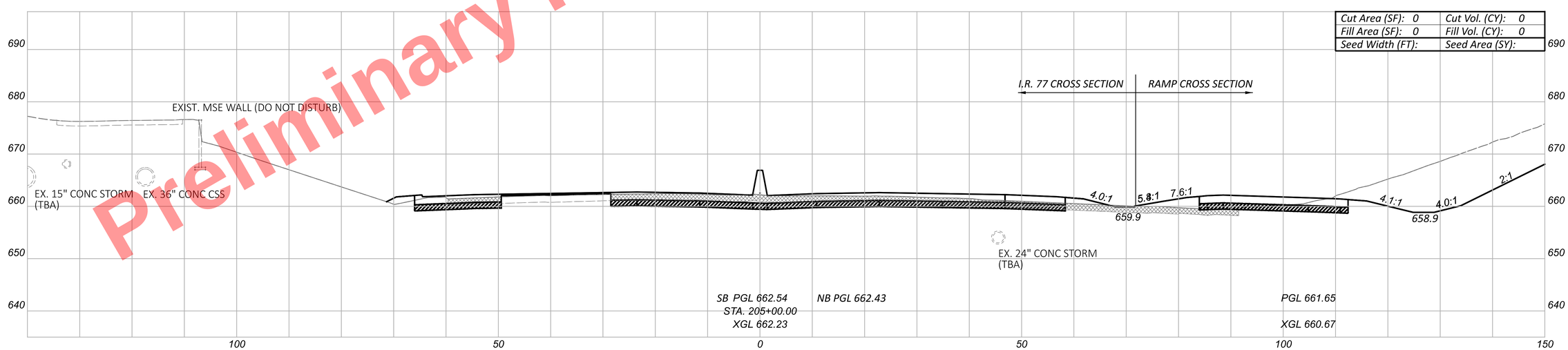
SHEET P.447 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 205+00.00 TO STA. 205+50.00

DESIGN AGENCY
HNTB

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.448 TOTAL P.1135

CUY-77-11.43 - PART 1

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Preliminary Plans - For Reference Only

| | |
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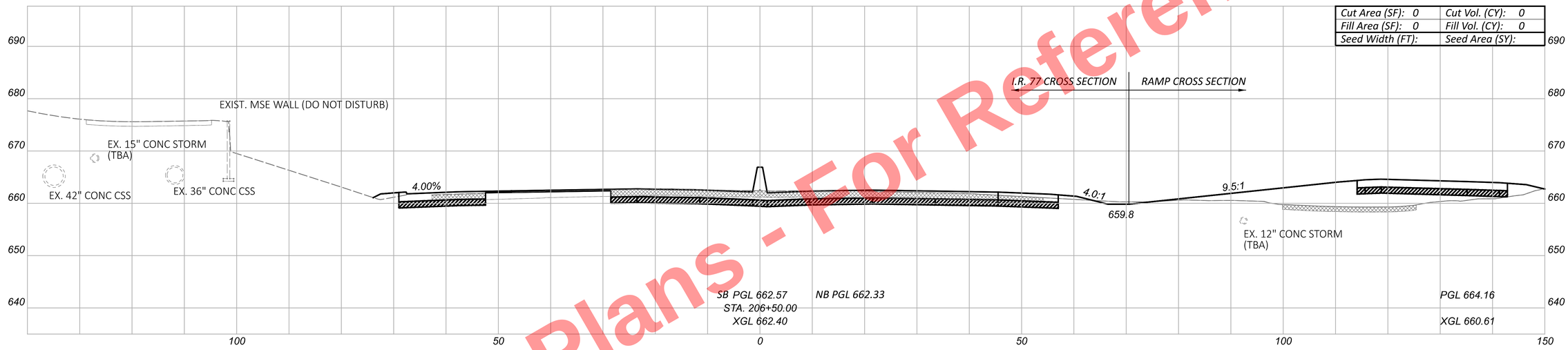
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

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|---|---|
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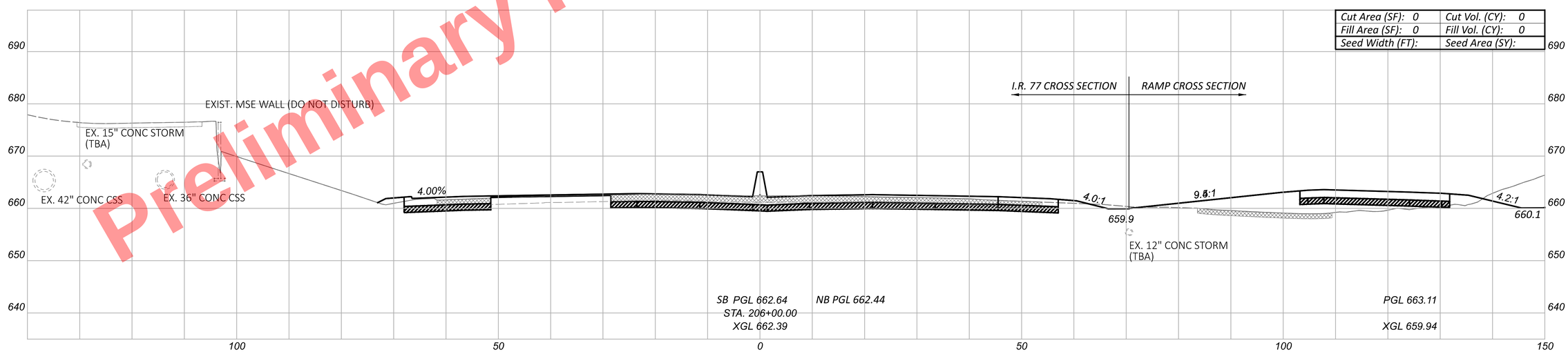
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 206+00.00 TO STA. 206+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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SHEET P.449 TOTAL P.1135

CUY-77-11.43 - PART 1

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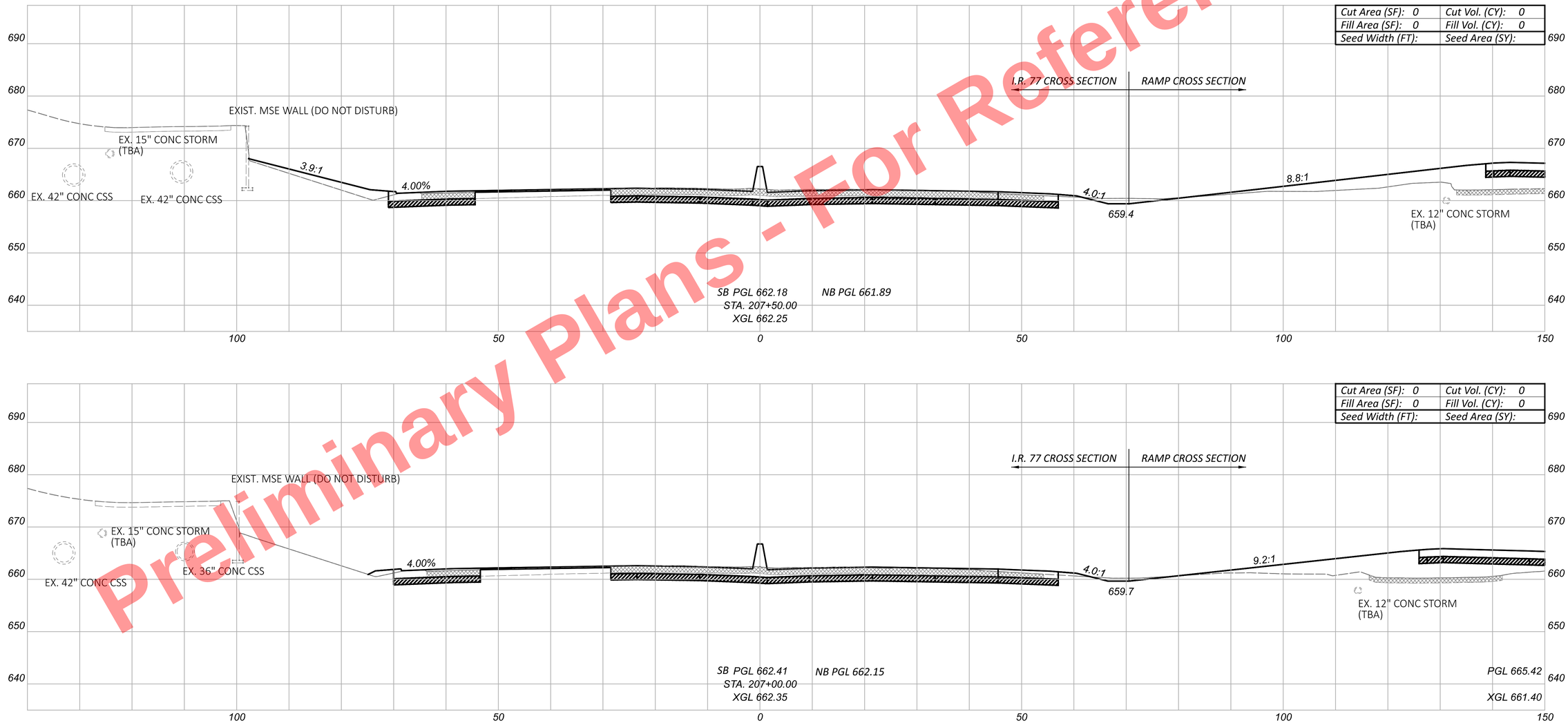
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 207+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

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| DESIGNER | EAP |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |

| Sheet Totals | | |
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| Seeding | Cut | Fill |
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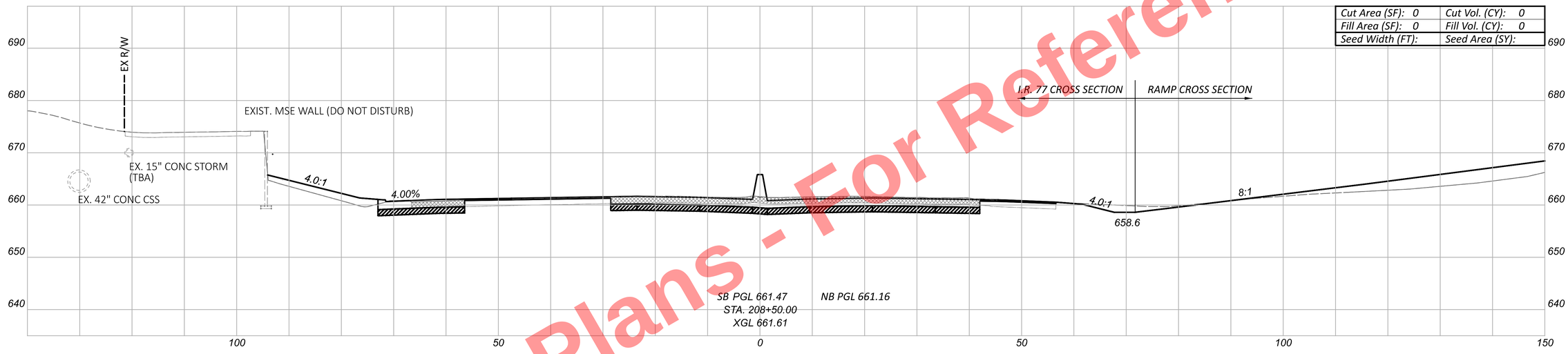
| SHEET | TOTAL |
|---|---|
| P.450 | P.1135 |

Preliminary Plans - For Reference Only

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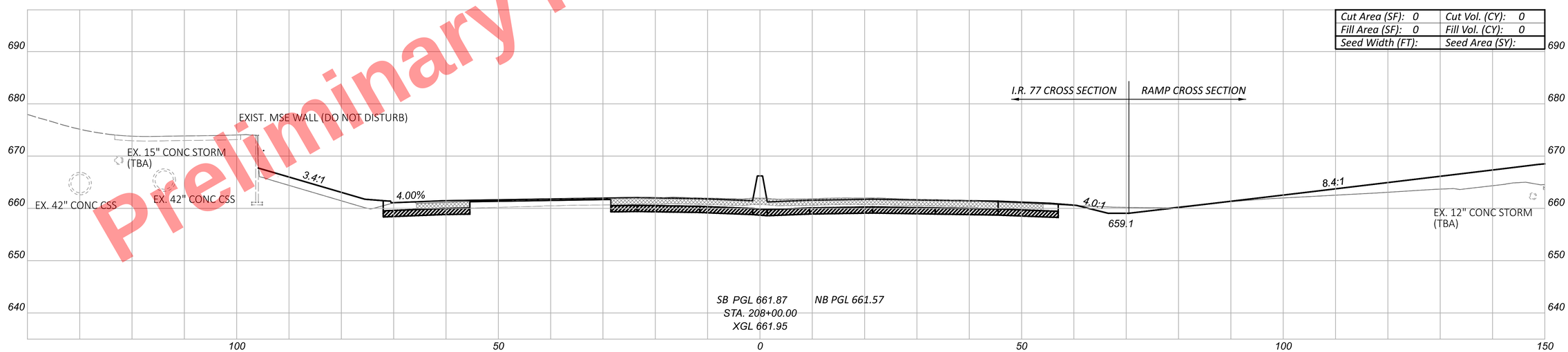
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 208+00.00 TO STA. 208+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.451 TOTAL P.1135

CUY-77-11.43 - PART 1

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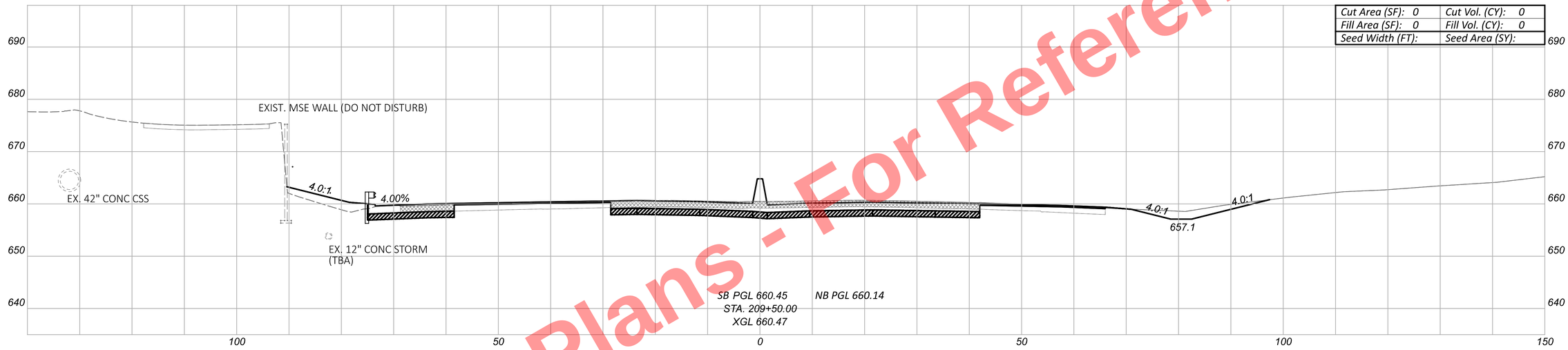
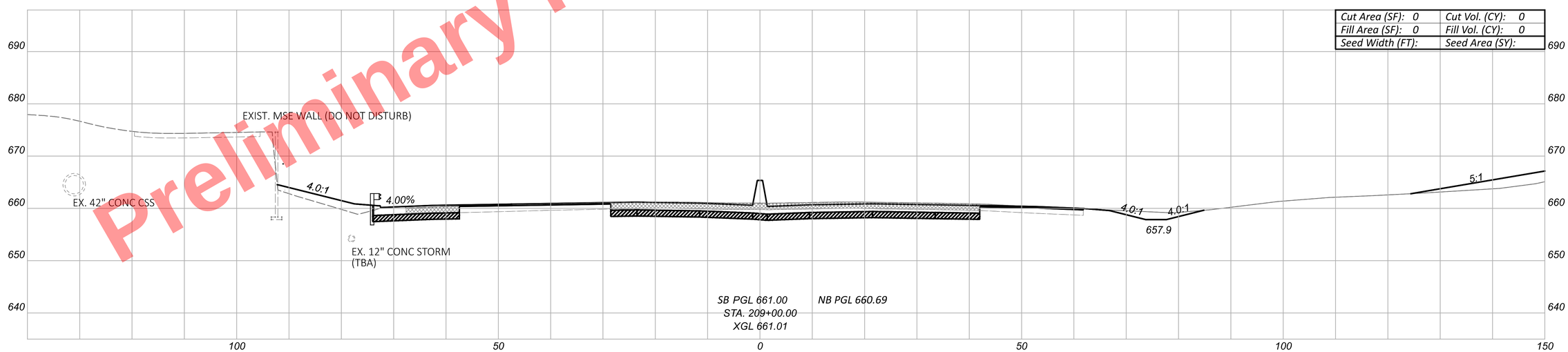
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 209+00.00 TO STA. 209+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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SHEET P.452 TOTAL P.1135

CUY-77-11.43 - PART 1

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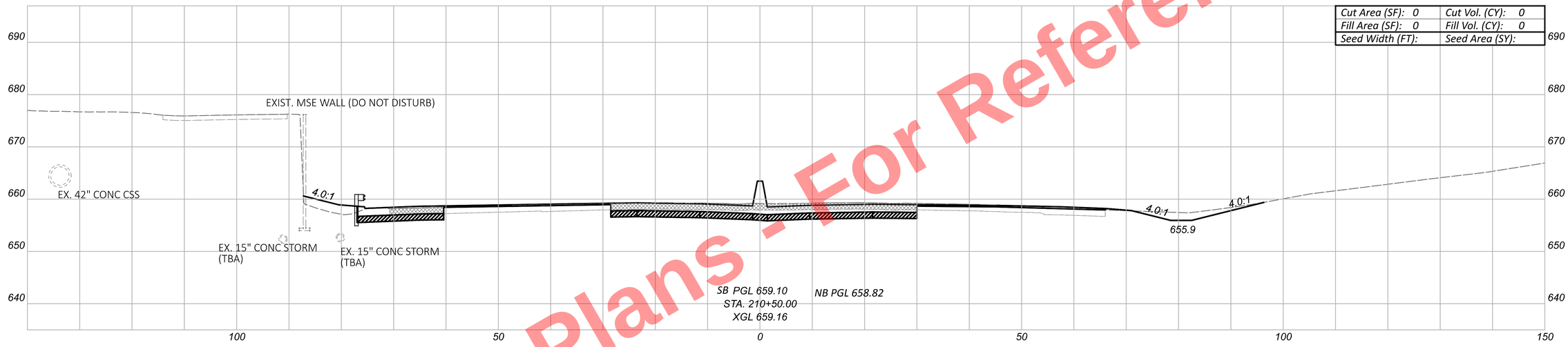
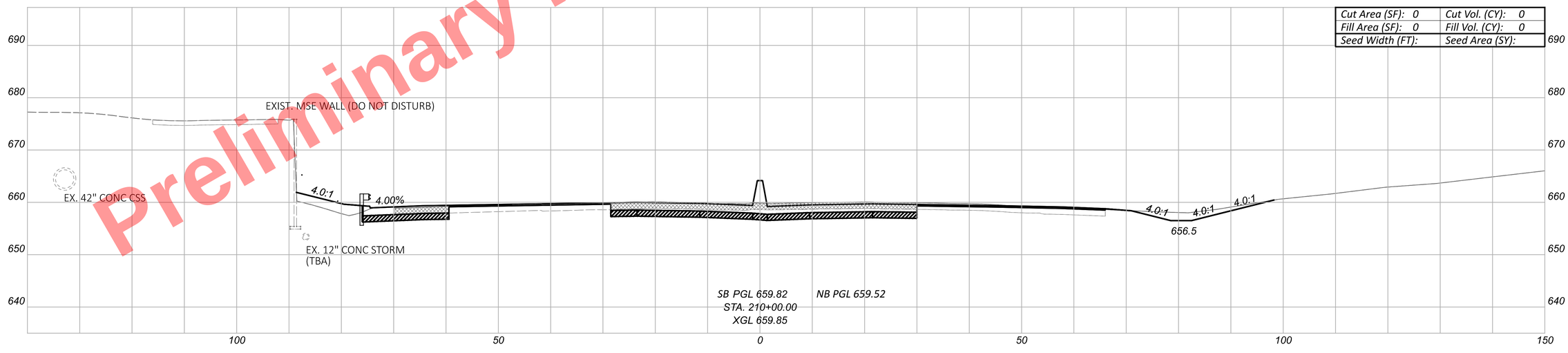
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 210+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:22:37 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 210+00.00 TO STA. 210+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

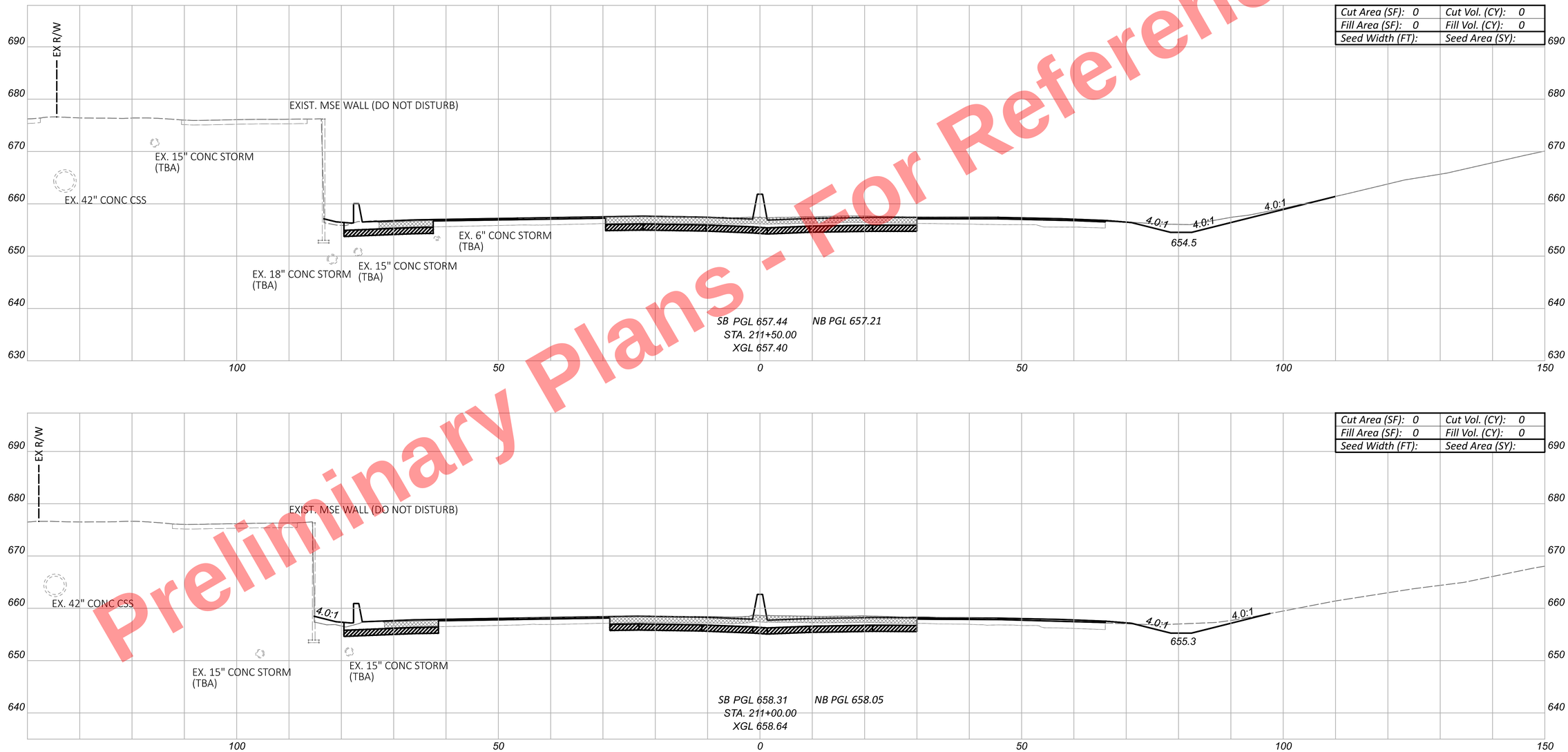
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.453 | P.1135 |

Preliminary Plans - For Reference Only







CUY-77-11.43 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 211+00.00 TO STA. 211+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

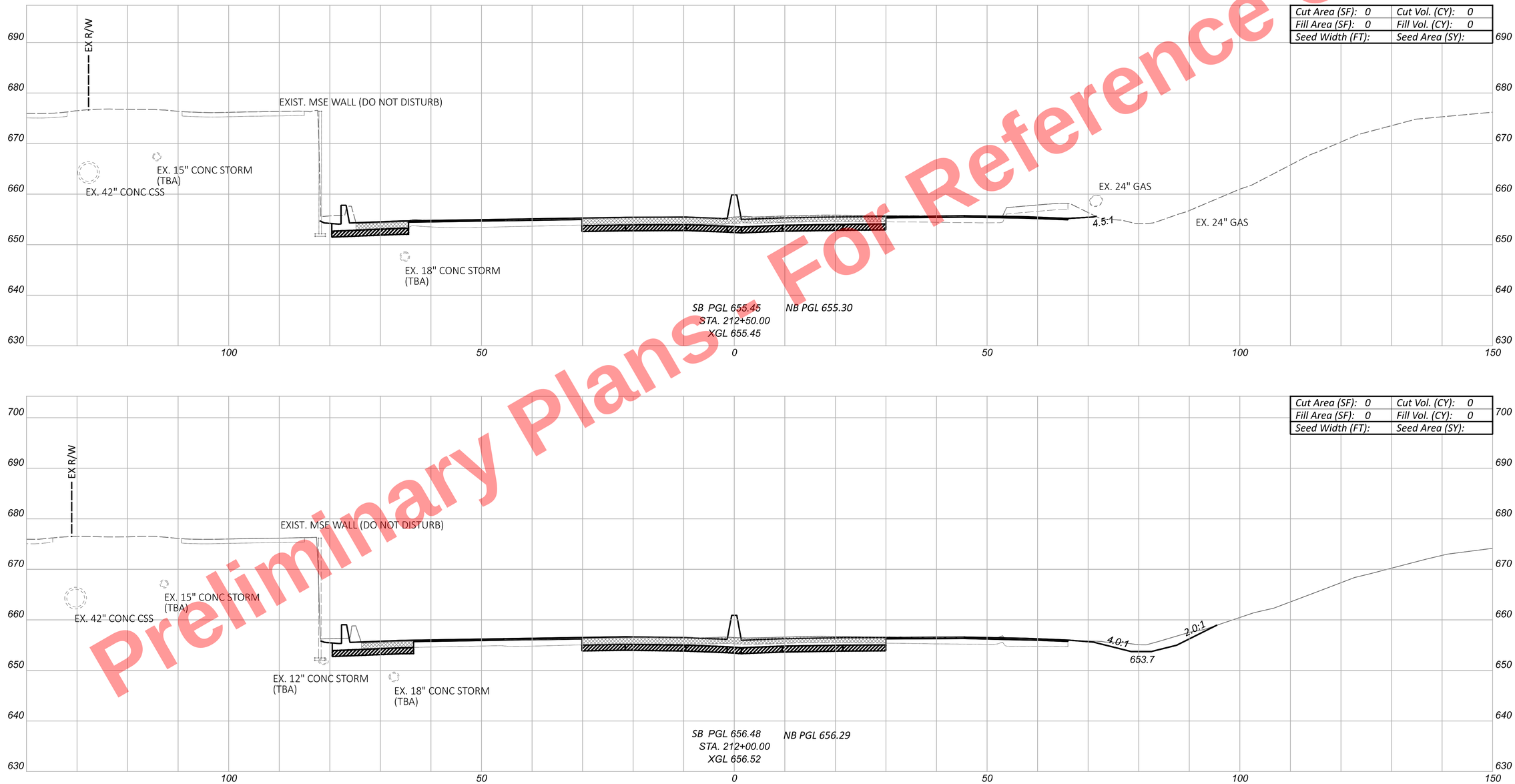
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.454 | TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 212+00.00 TO STA. 212+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.455 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 212+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:22:47 AM USER: kperkins
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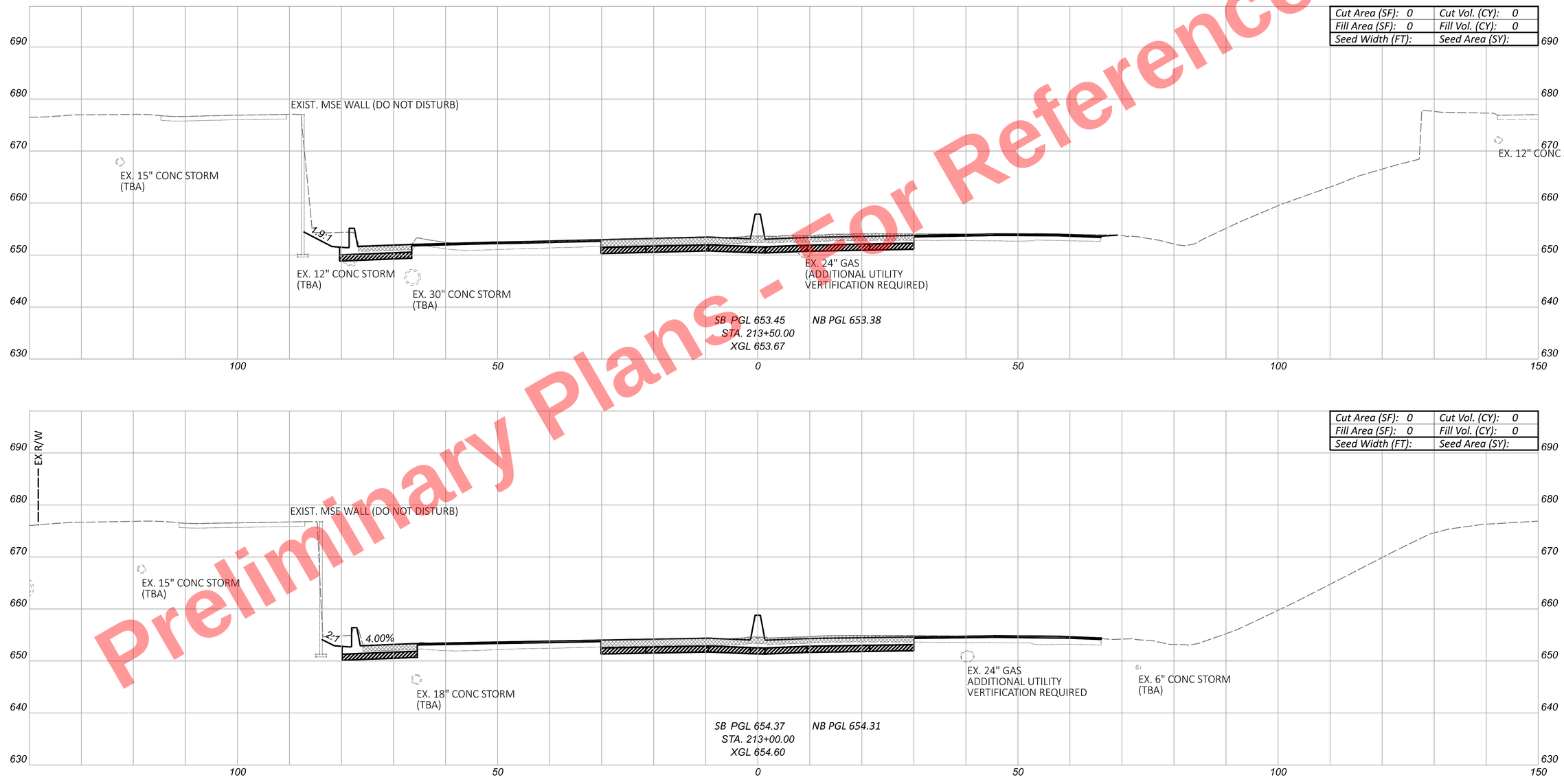
Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 213+00.00 TO STA. 213+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.456 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 213+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:22:51 AM USER: kperkins
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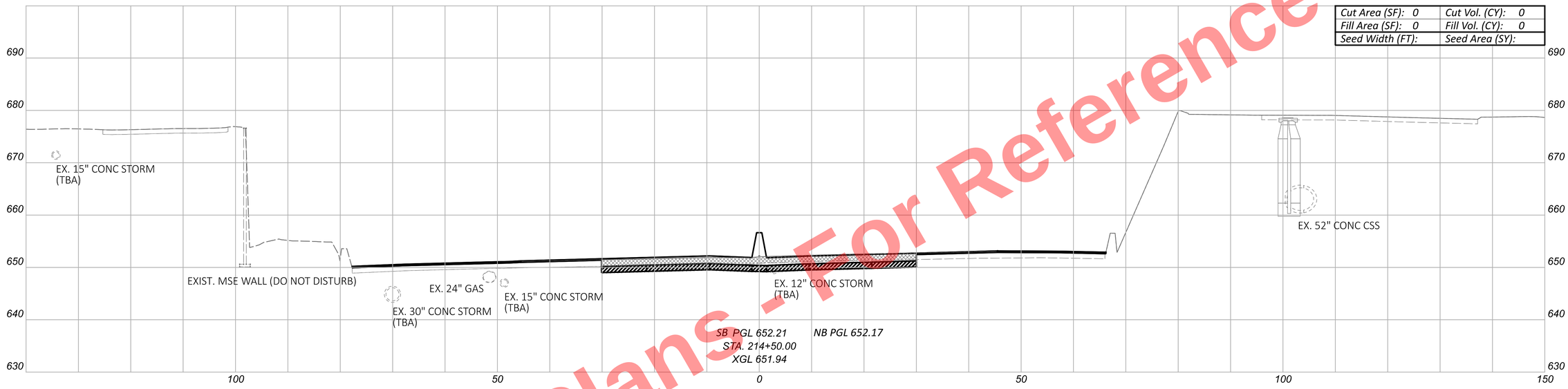
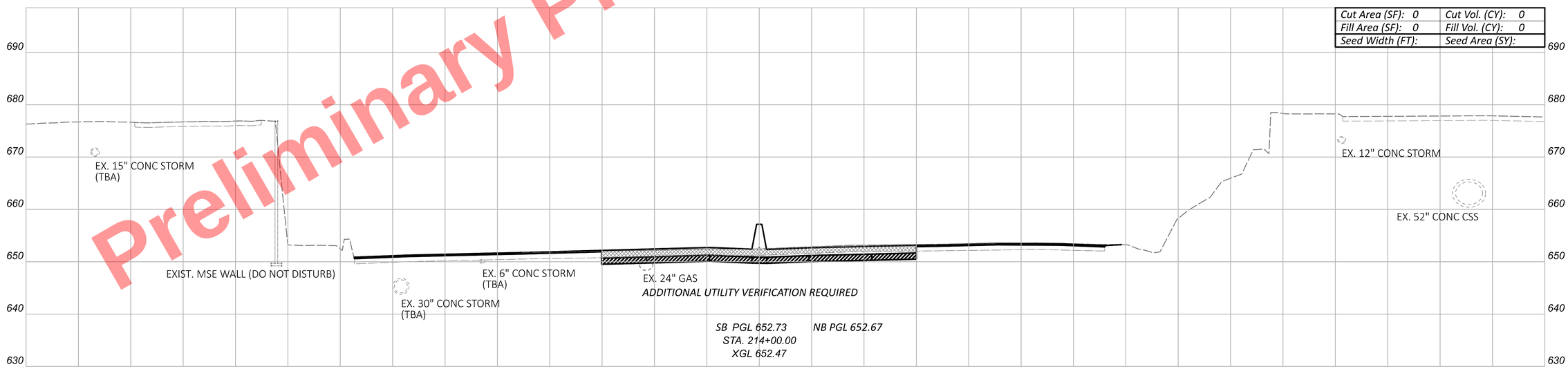
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - I.R. 77
STA. 214+00.00 TO STA. 214+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.457 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 214+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:22:56 AM USER: kperkins
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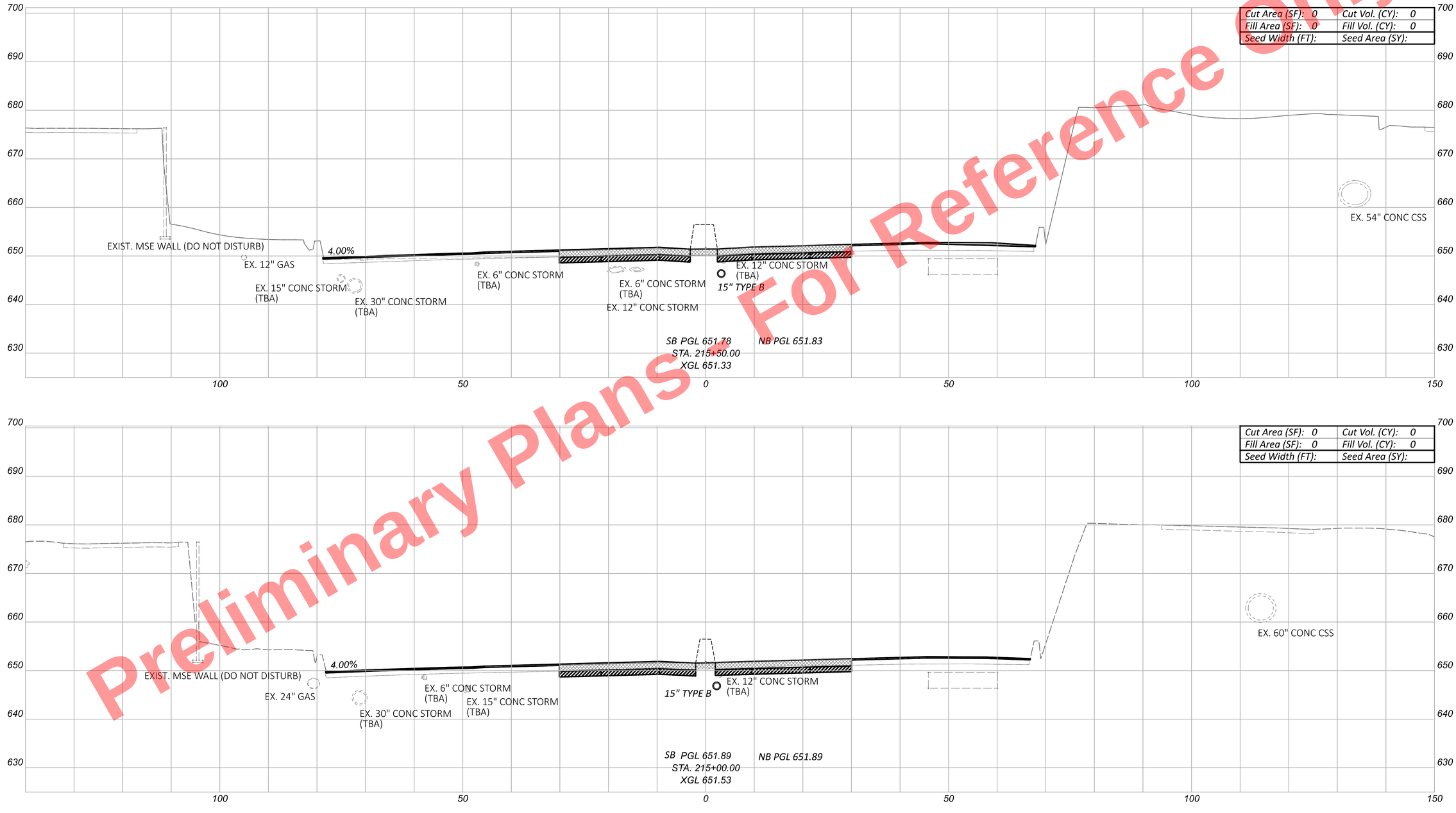
Preliminary Plans For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - I.R. 77
STA. 215+00.00 TO STA. 215+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

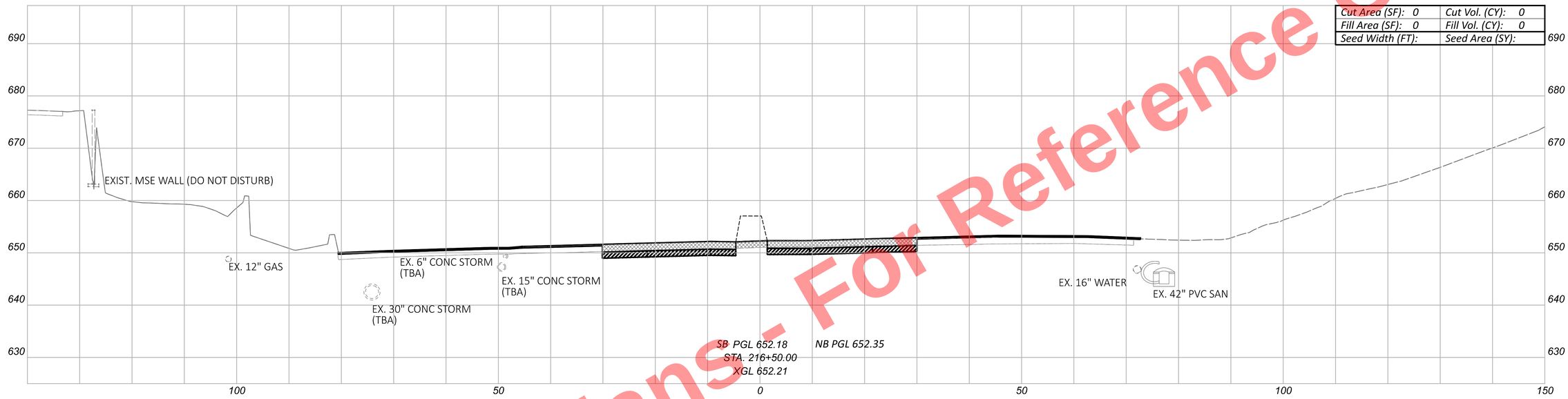
REVIEWER
MTR 04/01/22

PROJECT ID
105743

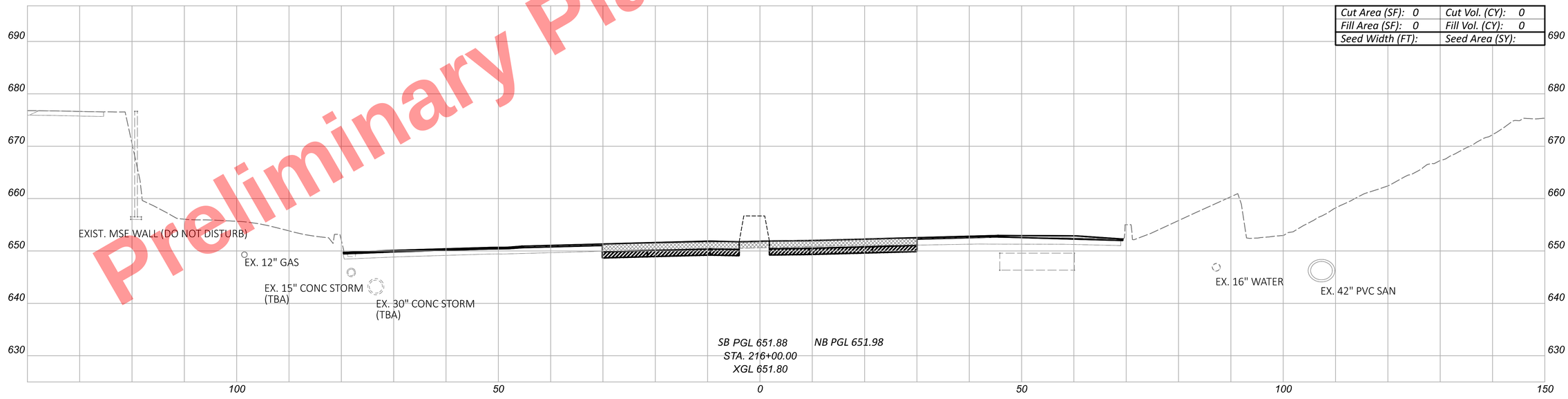
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.458 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - I.R. 77
STA. 216+00.00 TO STA. 216+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

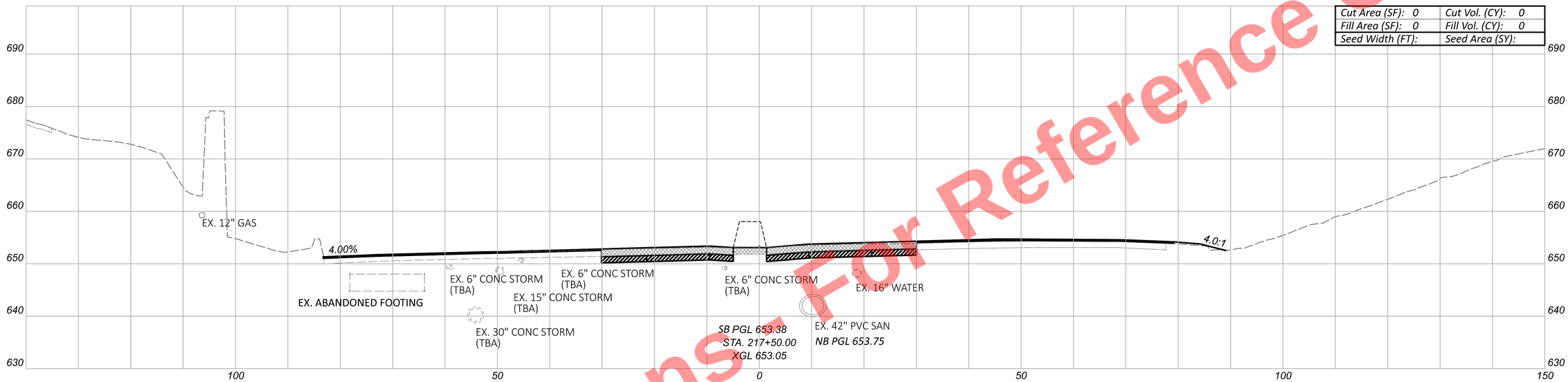
SHEET P.459 TOTAL P.1135

CUY-77-11.43 - PART 1

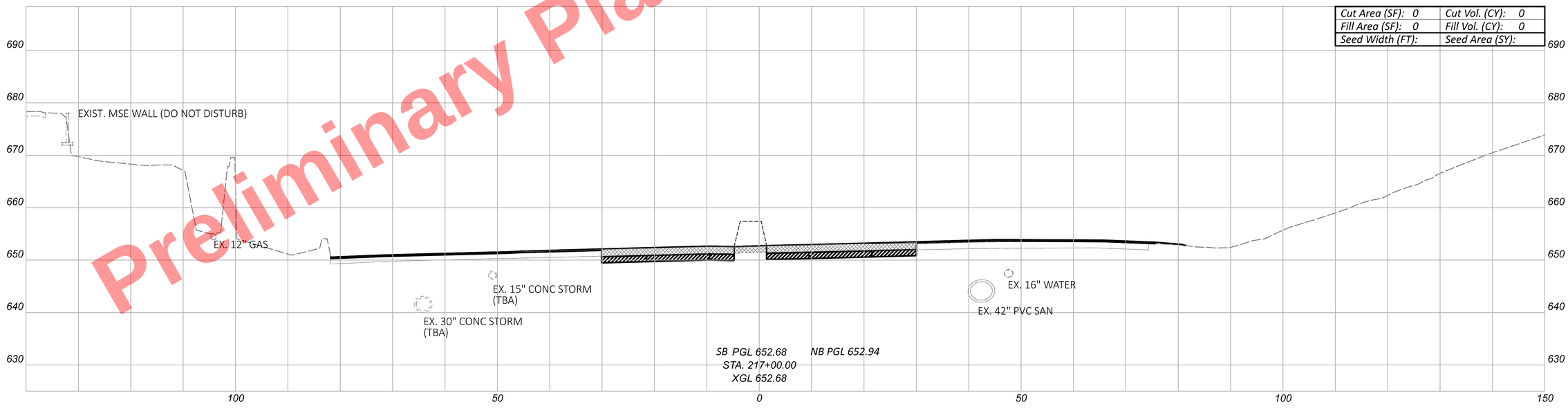
MODEL: CLP_I077 - 216+00.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:06 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Roadway\Sheets\105743_XS103.dgn

Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

CROSS SECTIONS - I.R. 77
STA. 217+00.00 TO STA. 217+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
EAP

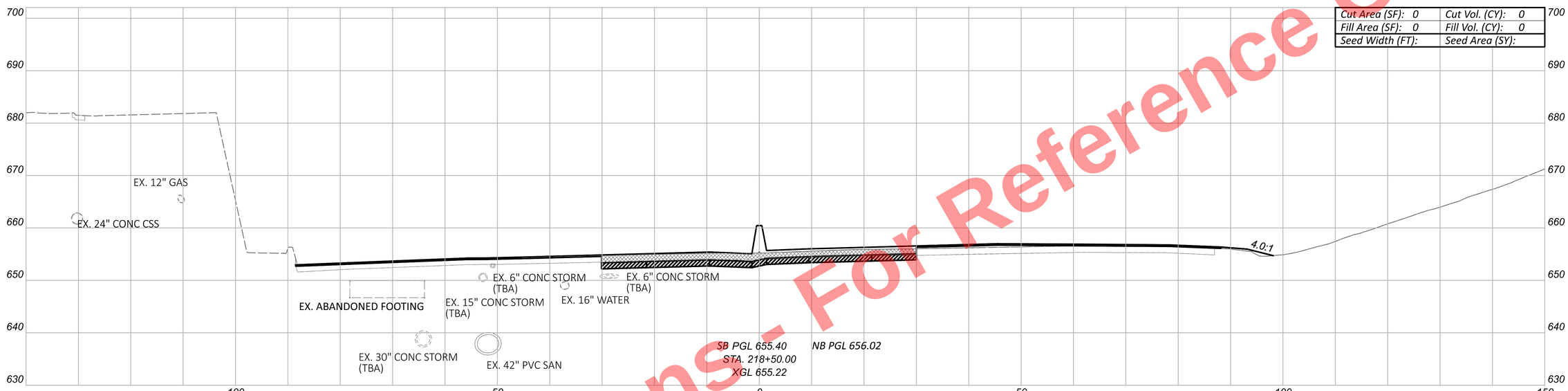
REVIEWER
MTR 04/01/22

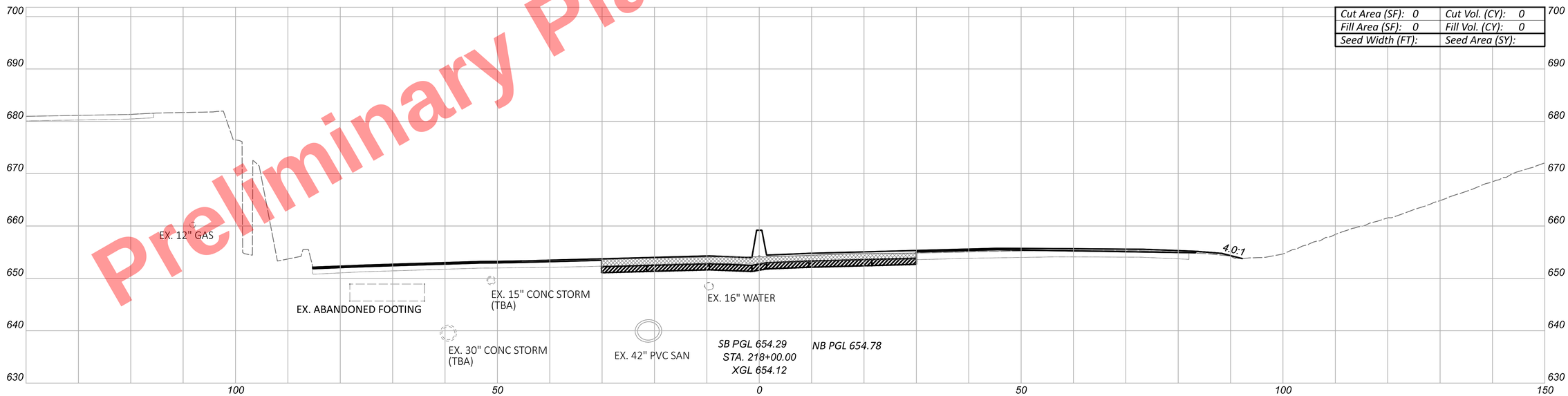
PROJECT ID
105743

SHEET P.460 TOTAL P.1135

MODEL: CLP_I077 - 217+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:11 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS103.dgn

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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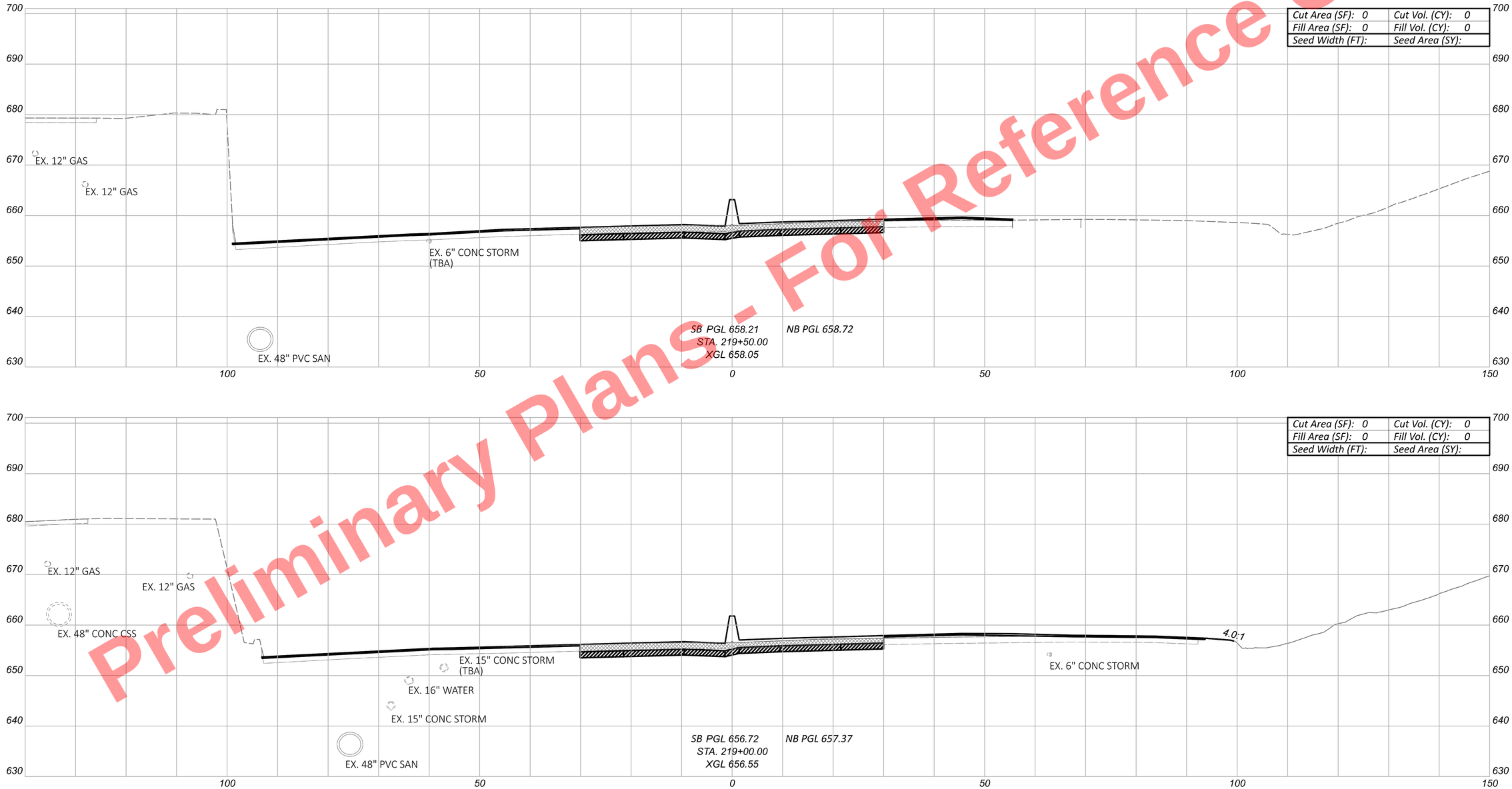
# CROSS SECTIONS - I.R. 77
## STA. 218+00.00 TO STA. 218+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.461 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - I.R. 77
STA. 219+00.00 TO STA. 219+50.00

CUY-77-11.43 - PART 1

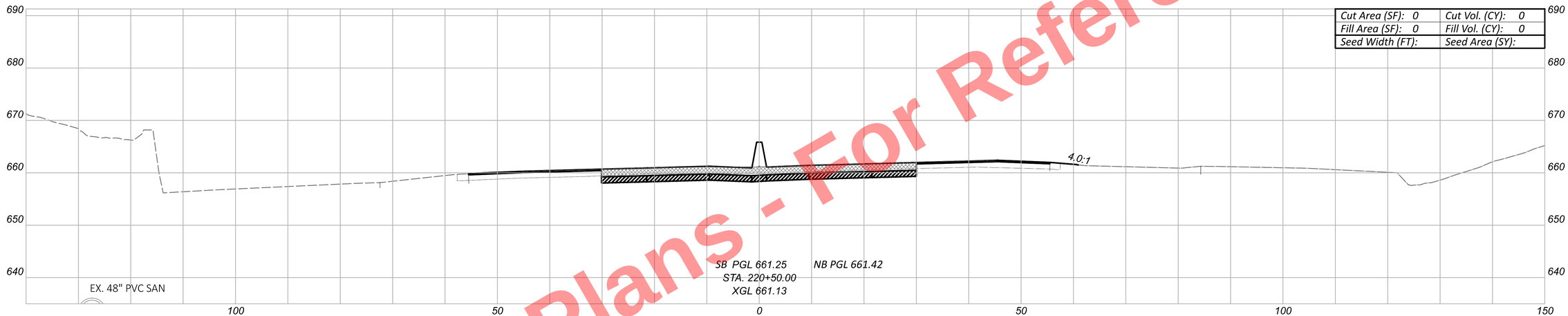
MODEL: CLP_I077 - 219+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:21 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\V00-Engineering\Roadway\Sheets\105743_XS103.dgn

DESIGN AGENCY
HNTB

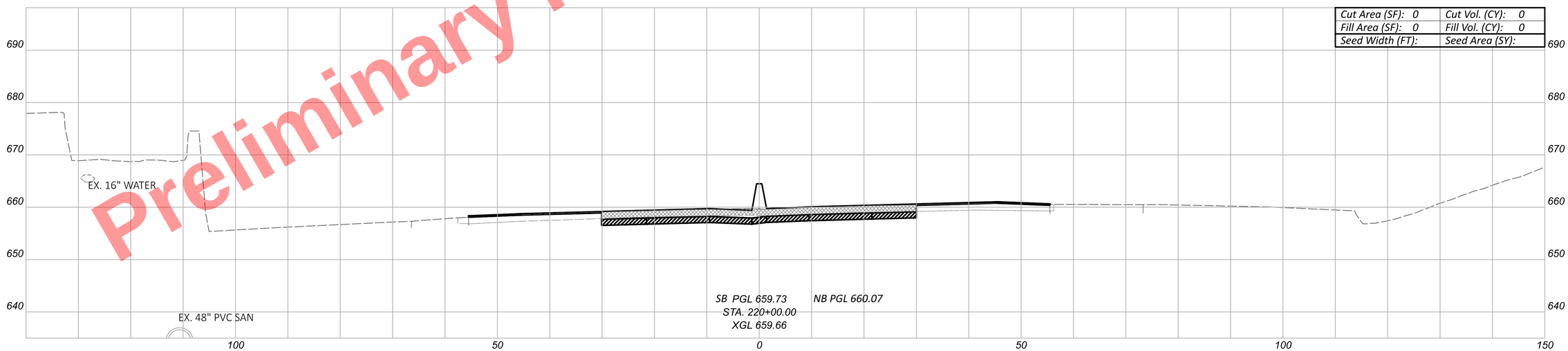
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.462 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 220+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:26 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 220+00.00 TO STA. 220+50.00

DESIGN AGENCY
HNTB

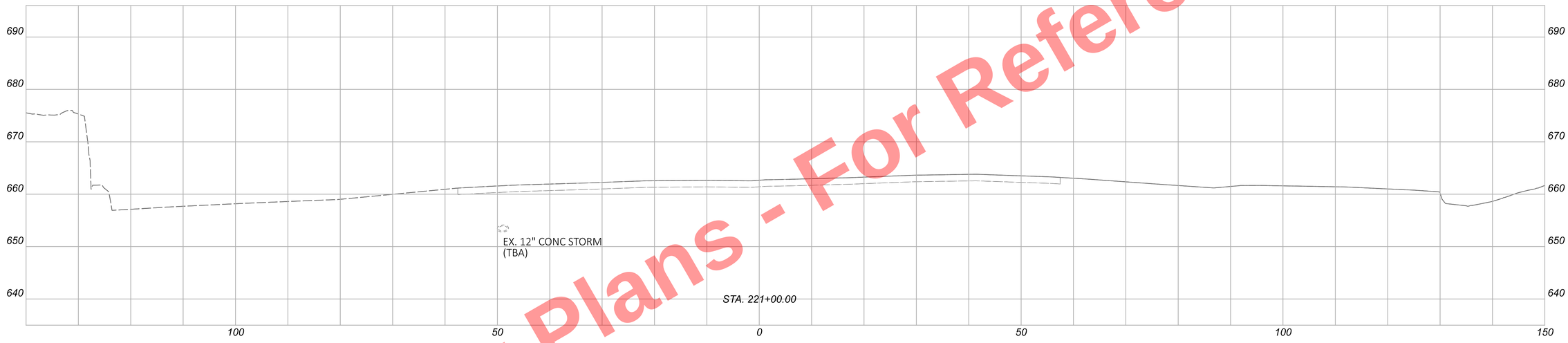
DESIGNER
EAP

REVIEWER
MTR 04/01/22

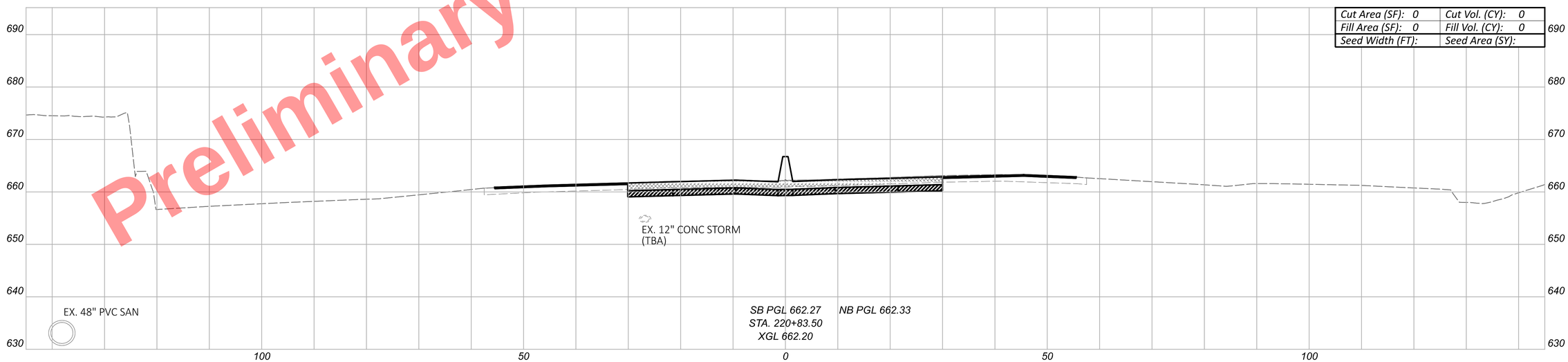
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.463 TOTAL P.1135




NOTE: RESURFACING EXTENDS TO STA. 228+99.12 (LT) AND STA. 227+98.78 (RT)




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_I077 - 220+83.50 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:31 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
END TO STA. 221+00.00

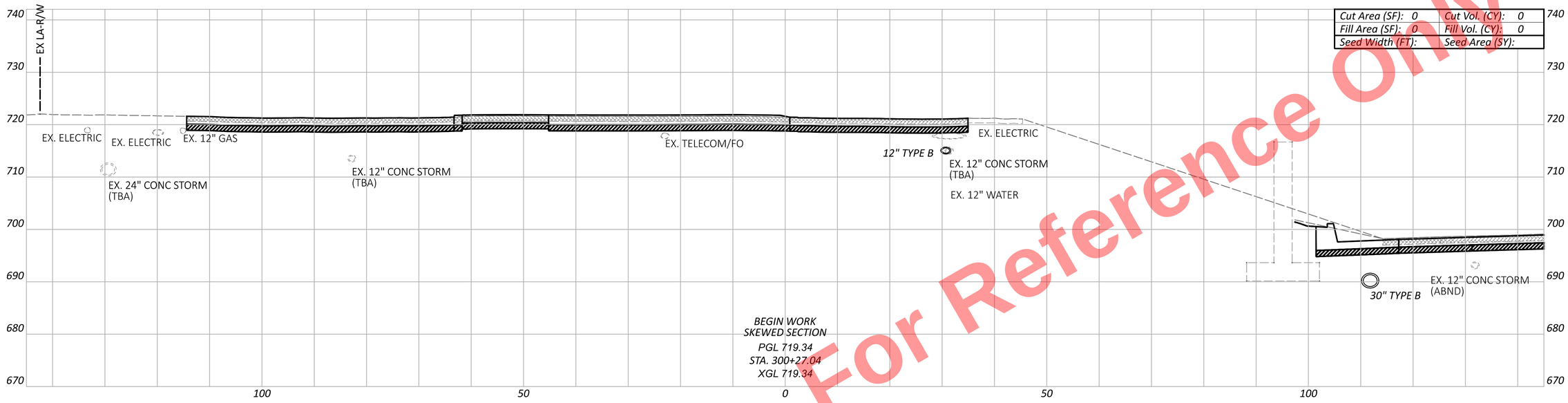
DESIGN AGENCY
HNTB

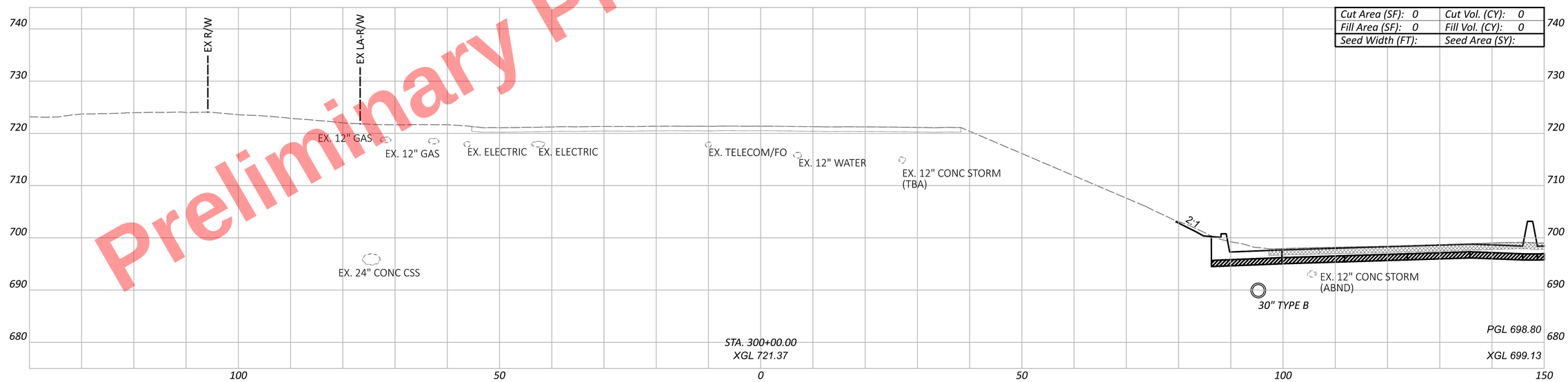
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.464 | TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A3
STA. 300+00.00 TO BEGIN WORK

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

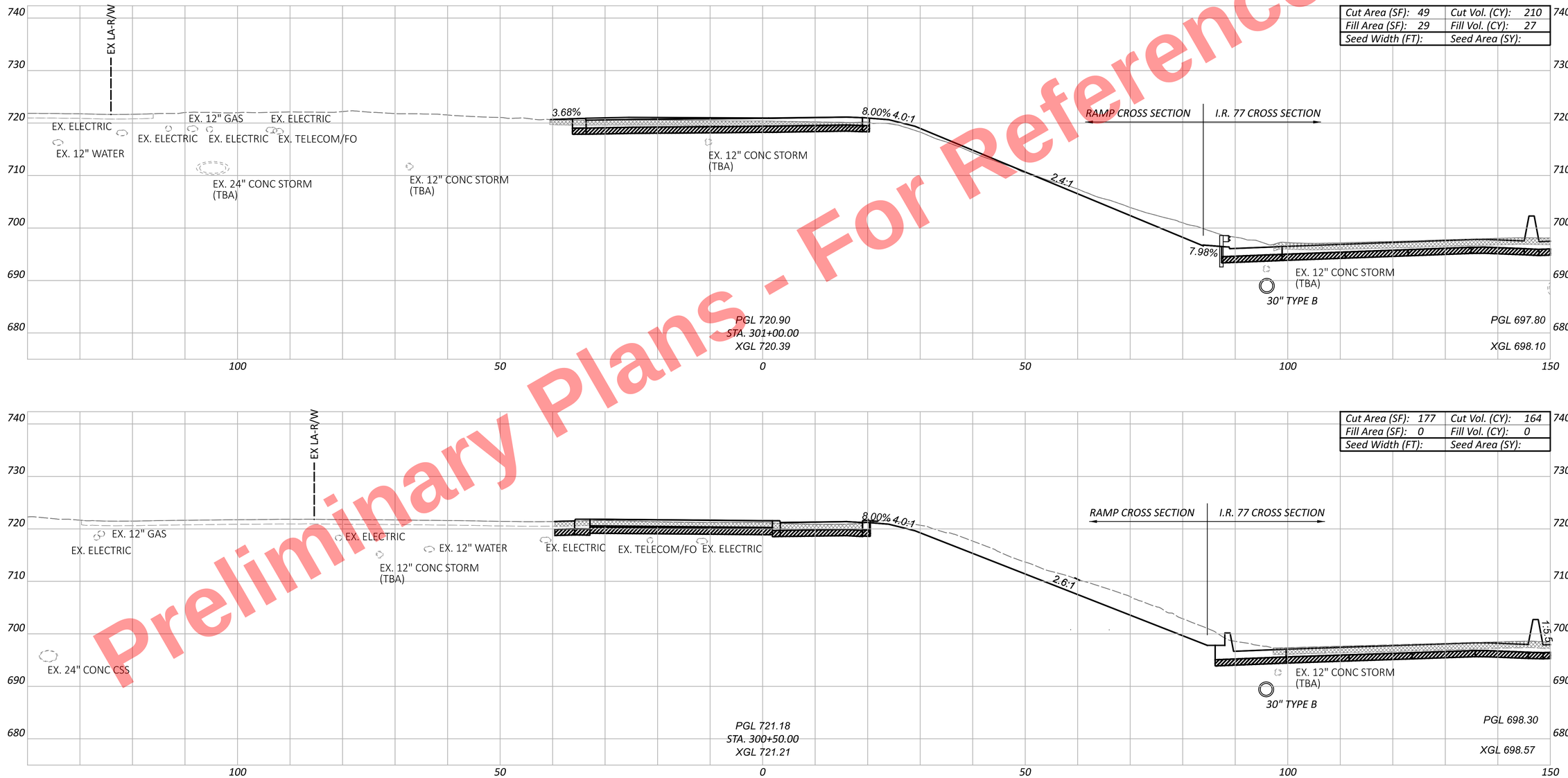
PROJECT ID
105743

SHEET P.465 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A3 - 300+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:39 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP A3
STA. 300+50.00 TO STA. 301+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.466 | P.1135 |

MODEL: BLP_R283_A3 - 300+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:45 AM USER: kperkins
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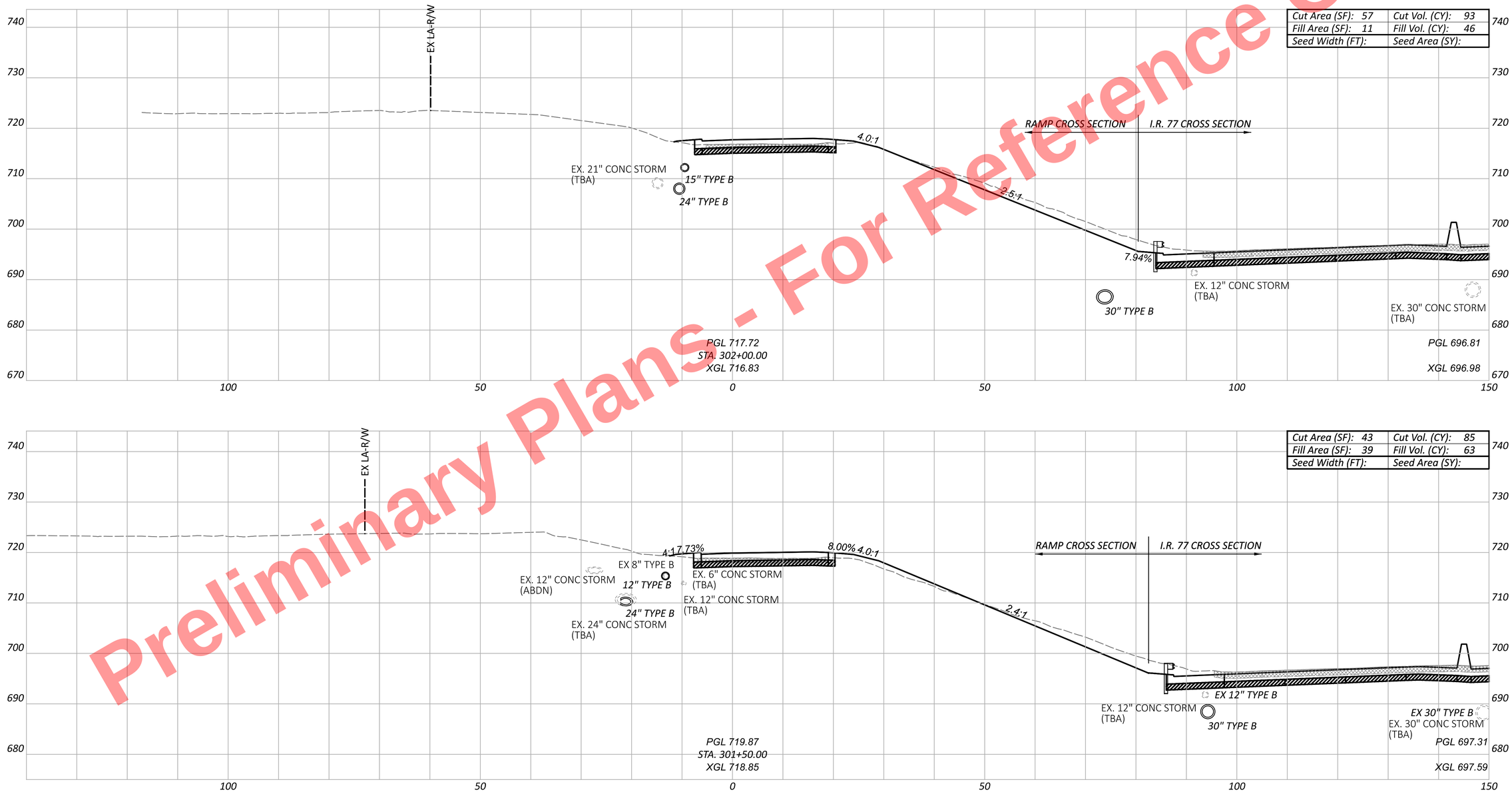
Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP A3
STA. 301+50.00 TO STA. 302+00.00

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A3 - 301+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:23:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_XS201.dgn

DESIGN AGENCY
HNTB

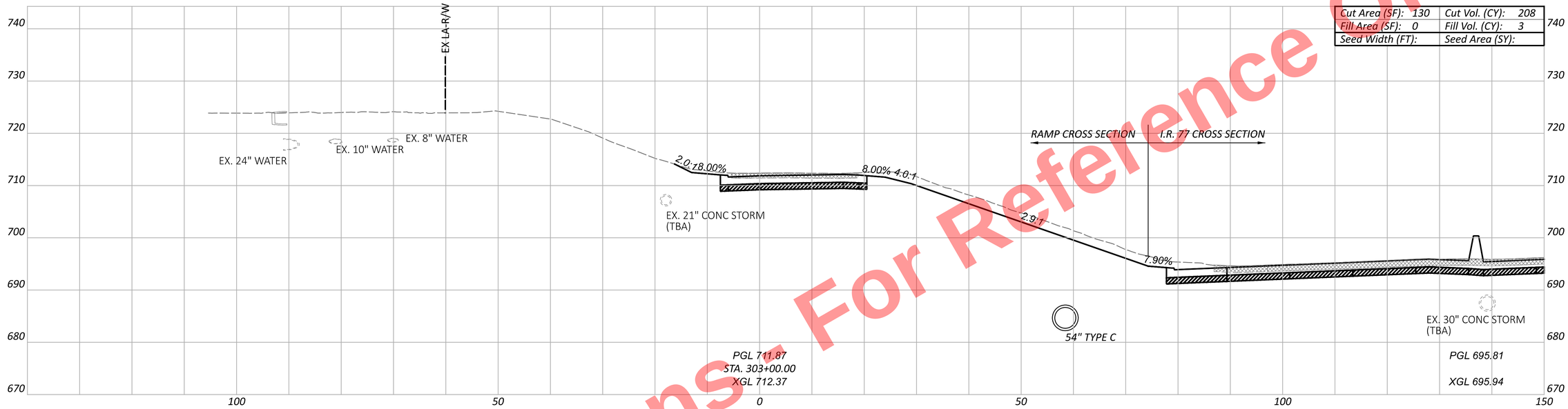
DESIGNER
AS

REVIEWER
MTR 04/01/22

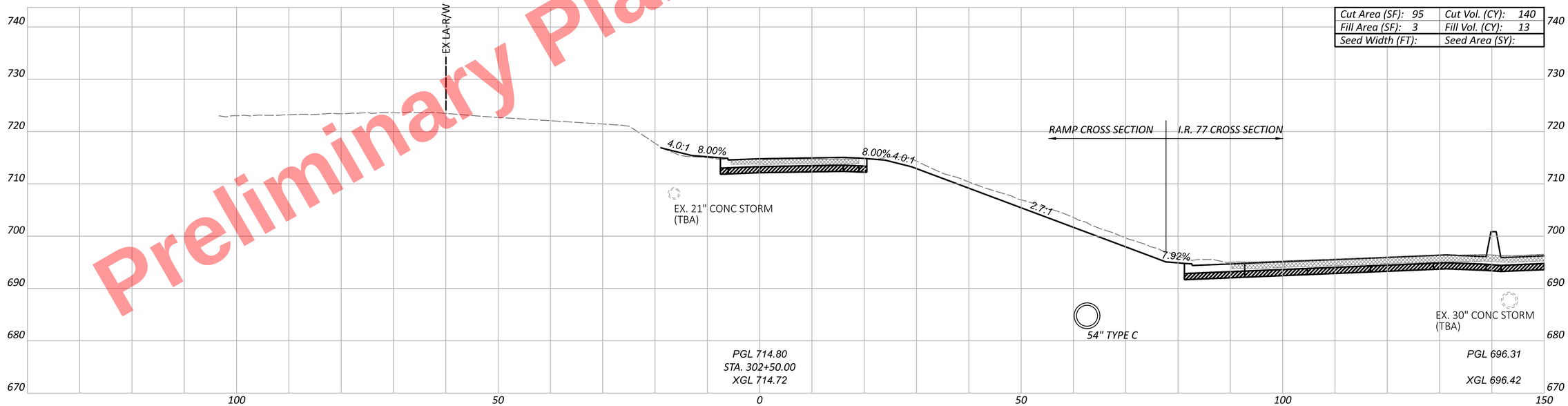
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.467 TOTAL P.1135




| | |
|---|---|
| Cut Area (SF): 130 | Cut Vol. (CY): 208 |
| Fill Area (SF): 0 | Fill Vol. (CY): 3 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 95 | Cut Vol. (CY): 140 |
| Fill Area (SF): 3 | Fill Vol. (CY): 13 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A3 - 302+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:01 AM USER: kperkins
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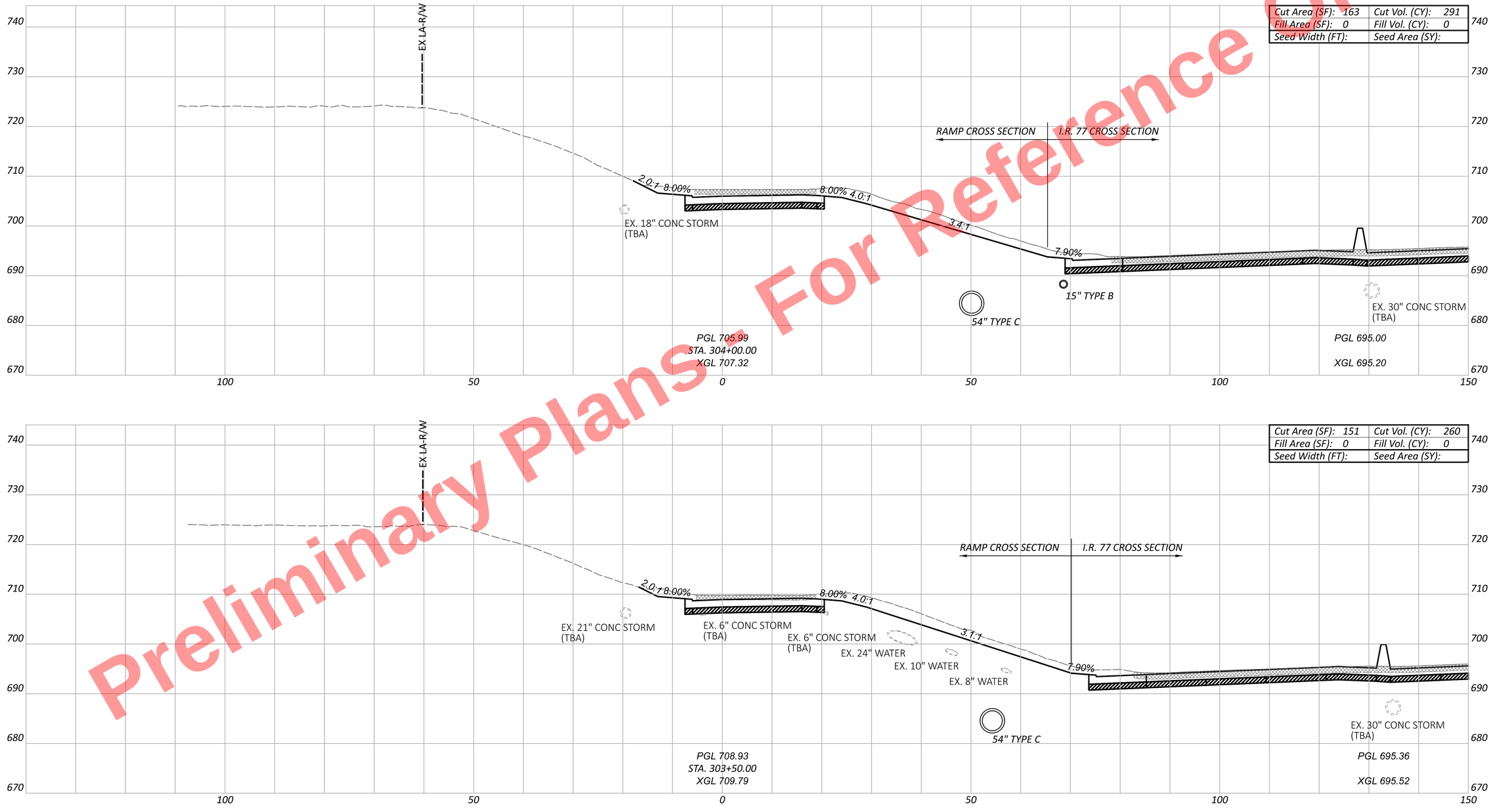
# CROSS SECTIONS - RAMP A3
# STA. 302+50.00 TO STA. 303+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.468 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

CROSS SECTIONS - RAMP A3
STA. 303+50.00 TO STA. 304+00.00

DESIGN AGENCY
HNTB

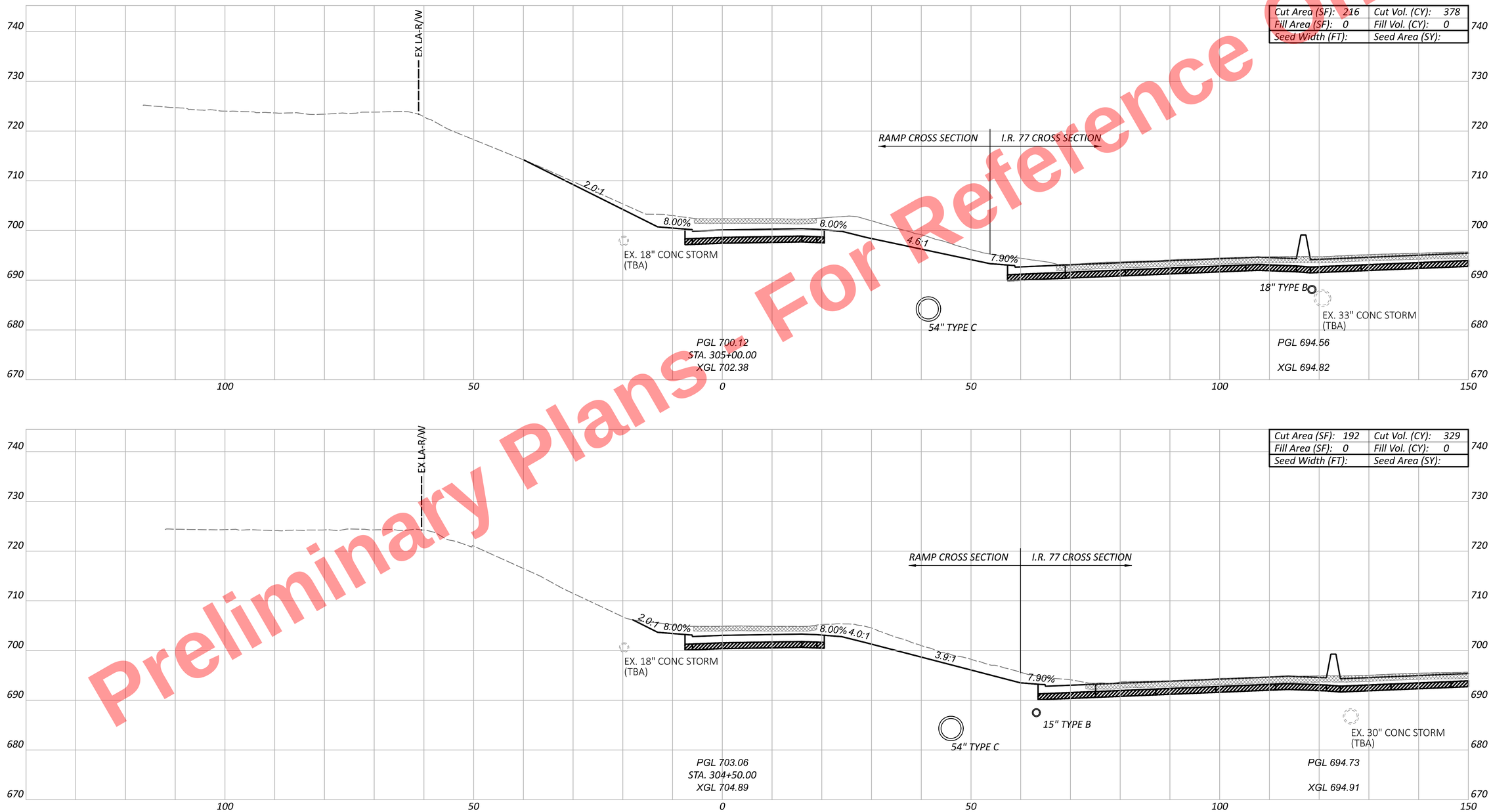
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.469 TOTAL P.1135




Preliminary Plans
For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP A3
STA. 304+50.00 TO STA. 305+00.00

DESIGN AGENCY
HNTB

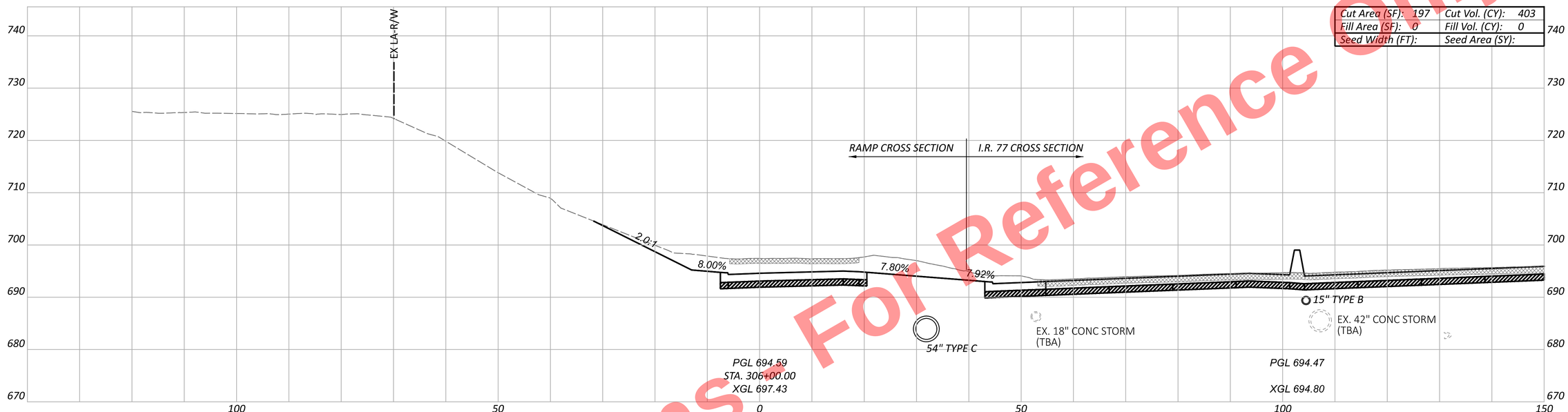
DESIGNER
AS

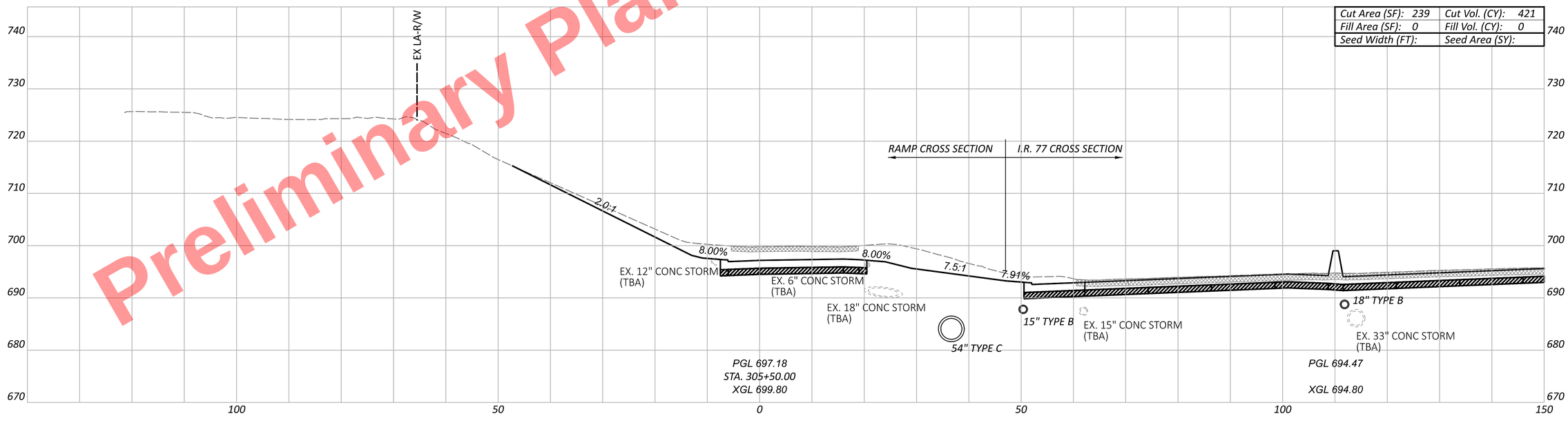
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.470 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A3 - 305+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:23 AM USER: kperkins
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CROSS SECTIONS - RAMP A3
STA. 305+50.00 TO STA. 306+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

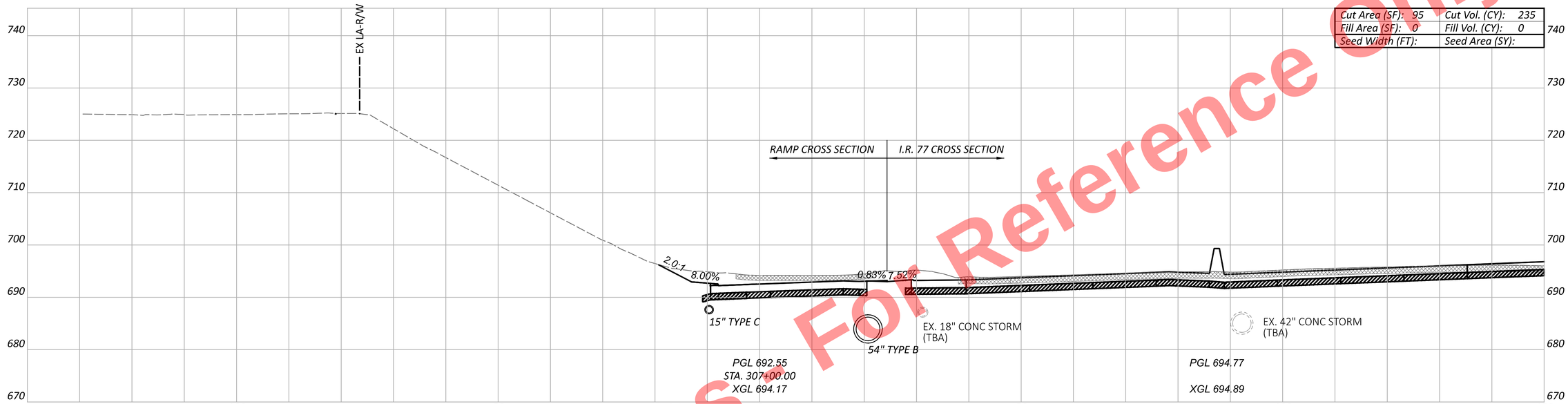
DESIGNER
AS

REVIEWER
MTR 04/01/22

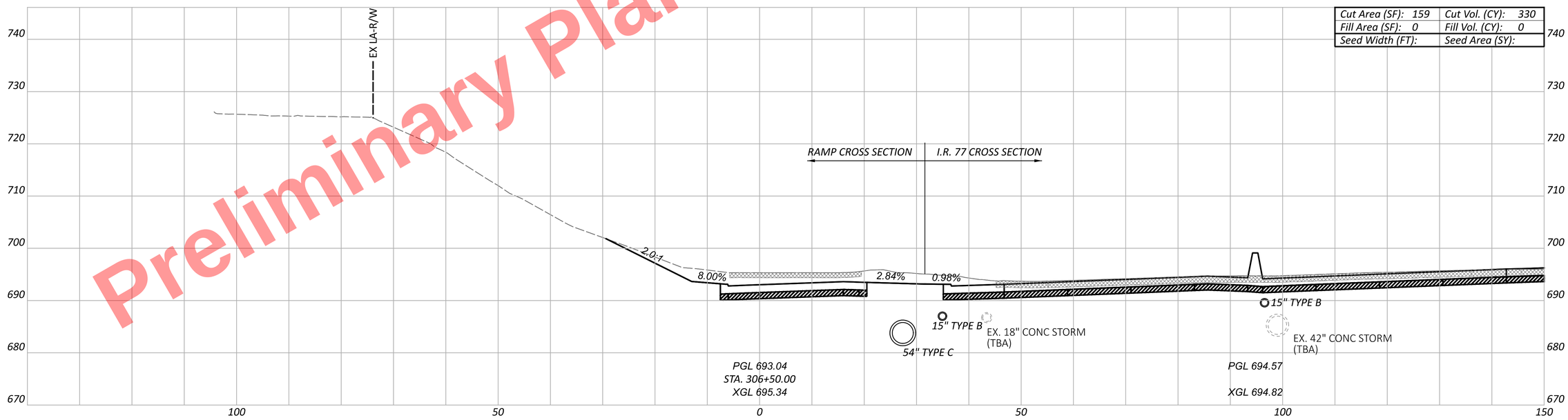
PROJECT ID
105743

SHEET P.471 TOTAL P.1135

Preliminary Plans For Reference Only




| Cut Area (SF): 95 | Cut Vol. (CY): 235 |
|---|---|
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| Cut Area (SF): 159 | Cut Vol. (CY): 330 |
|---|---|
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - RAMP A3
STA. 306+50.00 TO STA. 307+00.00

CUY-77-11.43 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.472 TOTAL P.1135

MODEL: BLP_R283_A3 - 306+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:31 AM USER: kperkins
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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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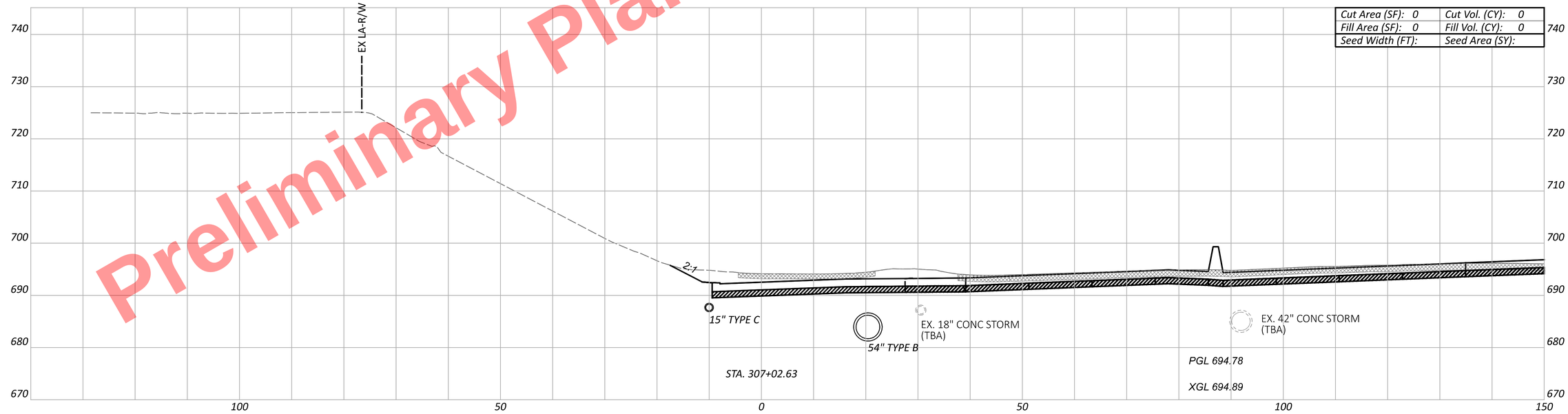
# CROSS SECTIONS - RAMP A3
## PHYSICAL GORE




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

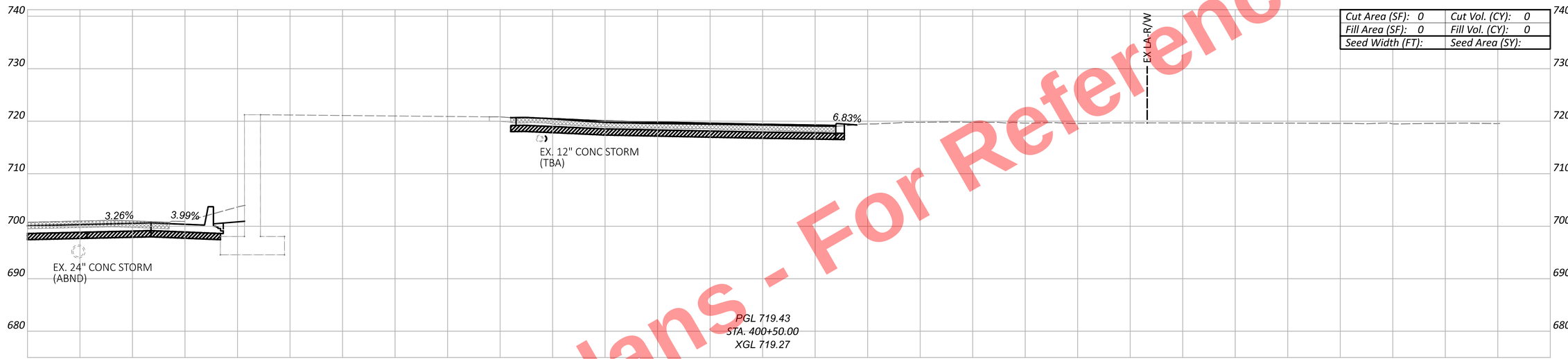
DESIGNER
AS

REVIEWER
MTR 04/01/22

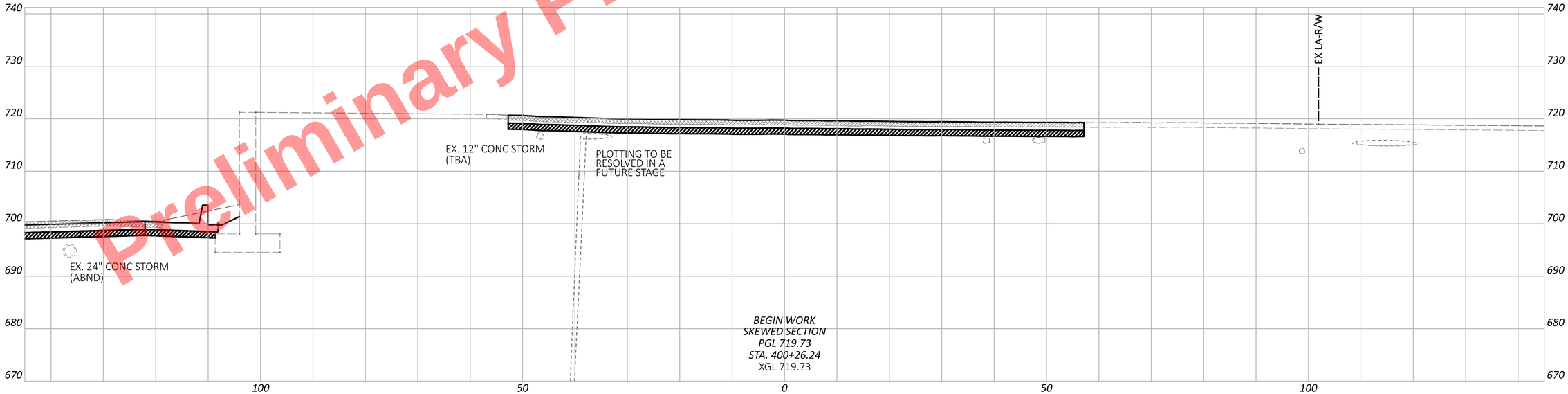
PROJECT ID
105743

SHEET P.473 TOTAL P.1135

Preliminary Plans - For Reference Only




| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
|---|---|
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

CROSS SECTIONS - RAMP A4
BEGIN WORK TO STA. 400+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

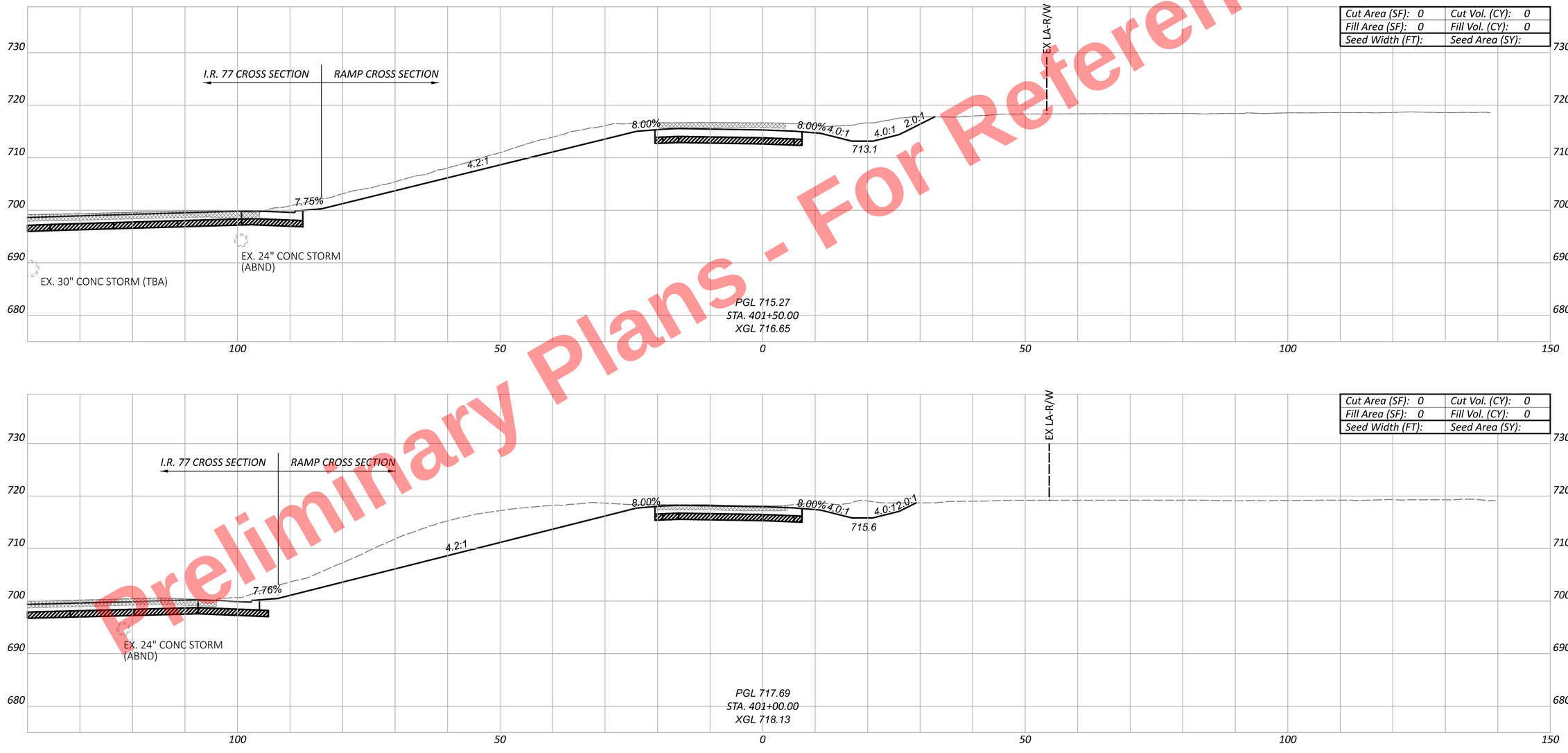
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.474 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A4 - 400+30.58 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A4
STA. 401+00.00 TO STA. 401+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.475 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A4 - 401+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:48 AM USER: kperkins
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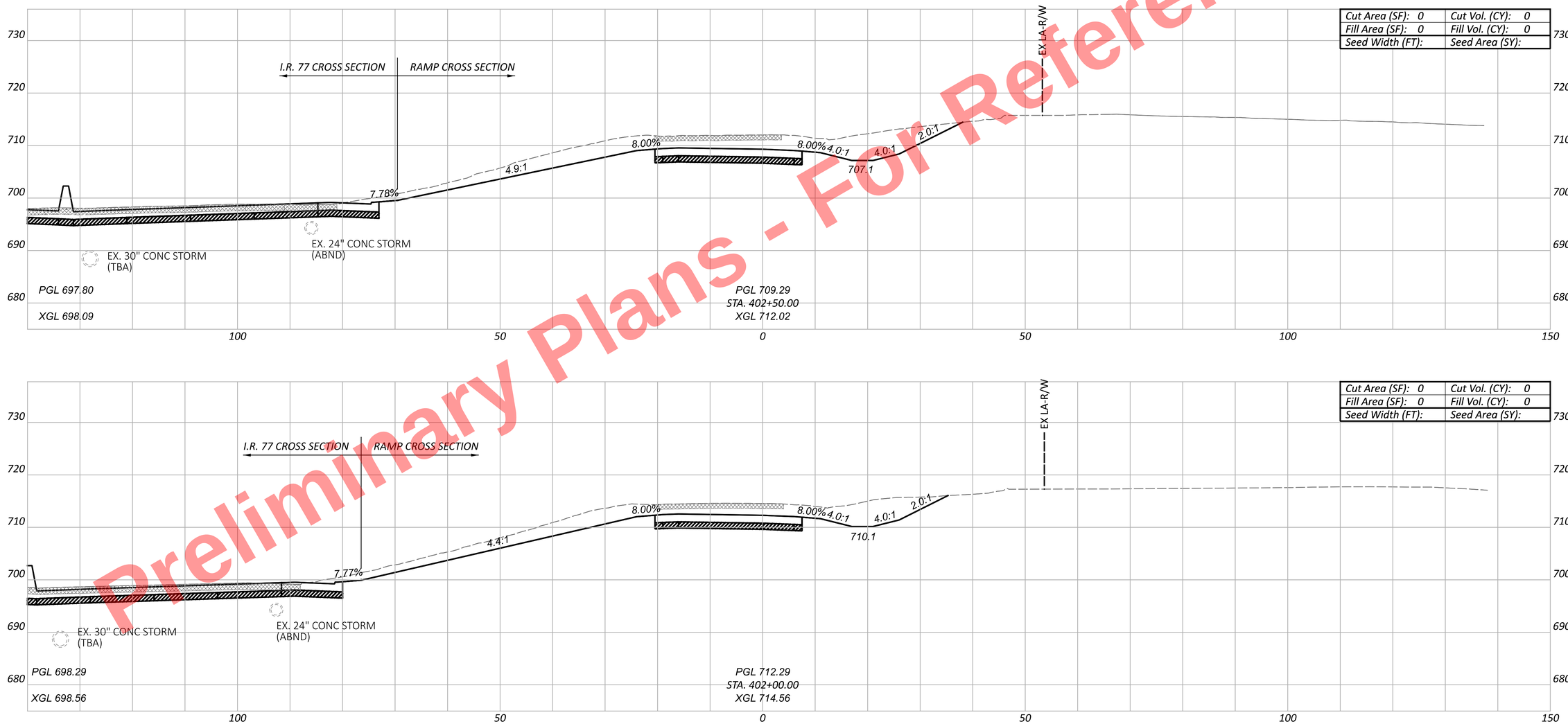
Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP A4
STA. 402+00.00 TO STA. 402+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.476 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A4 - 402+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:16 AM USER: kperkins
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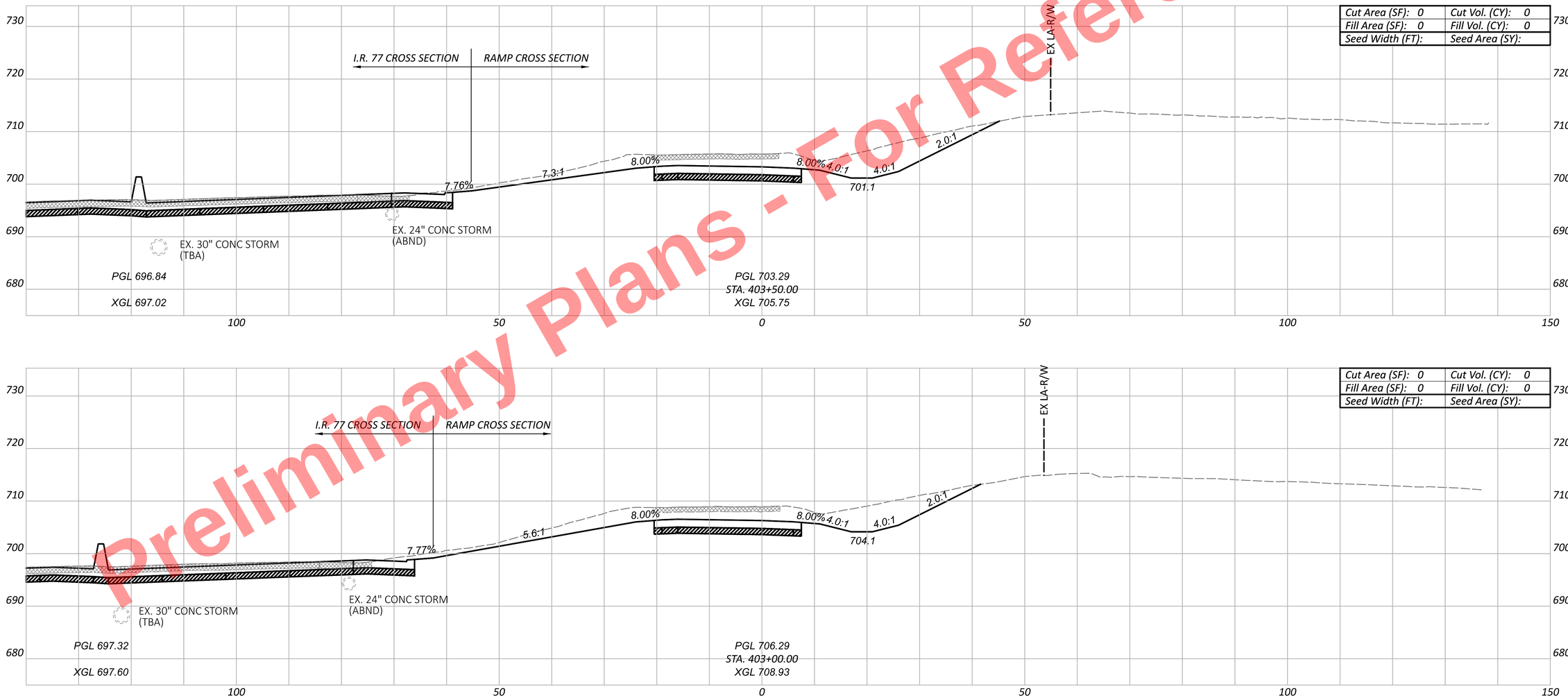
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP A4
STA. 403+00.00 TO STA. 403+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

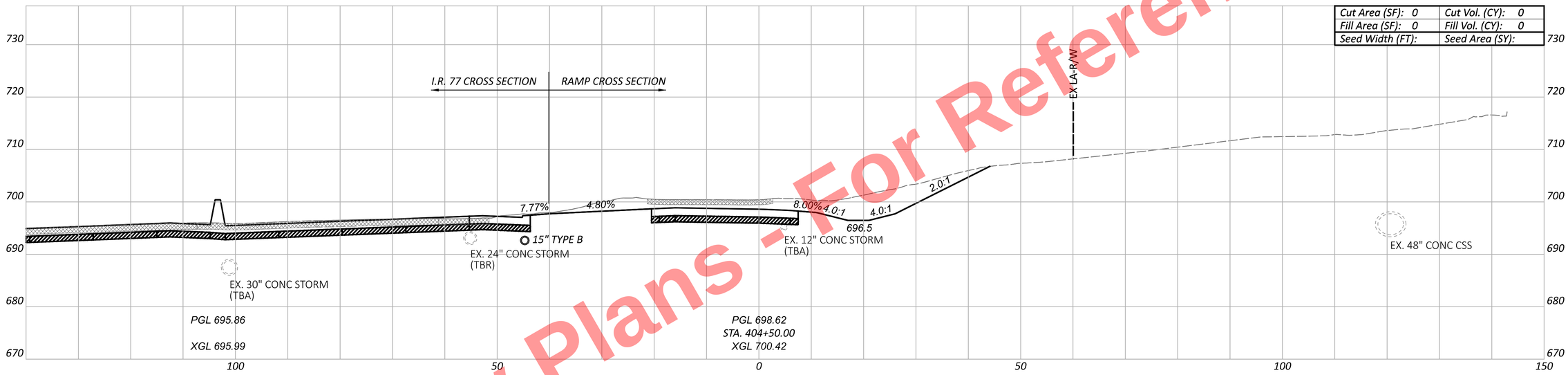
REVIEWER
MTR 04/01/22

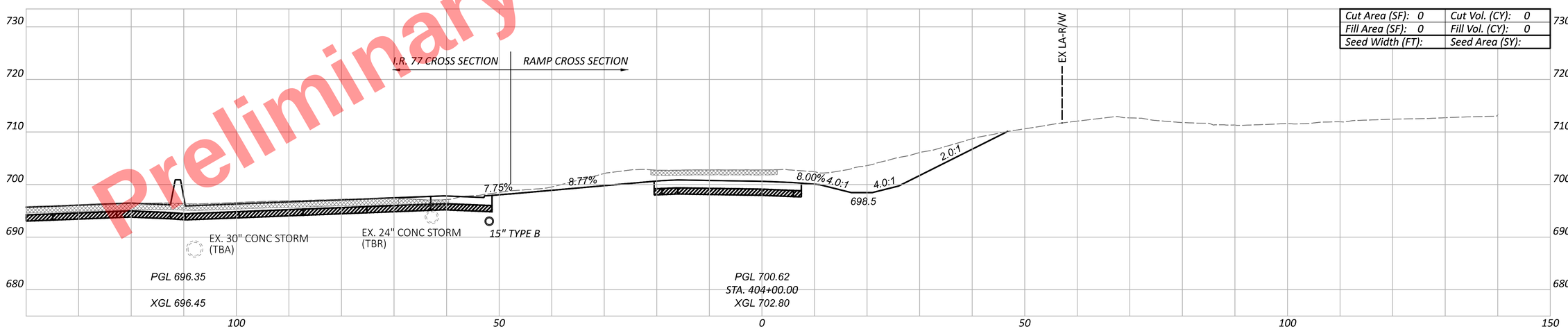
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.477 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP A4
STA. 404+00.00 TO STA. 404+50.00

DESIGN AGENCY
HNTB

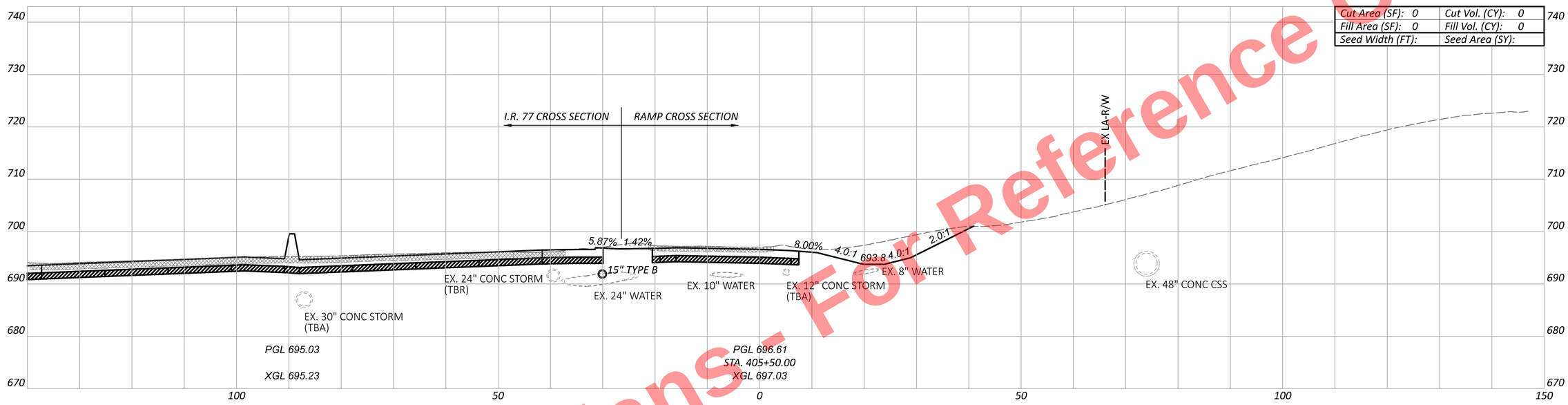
DESIGNER
AS

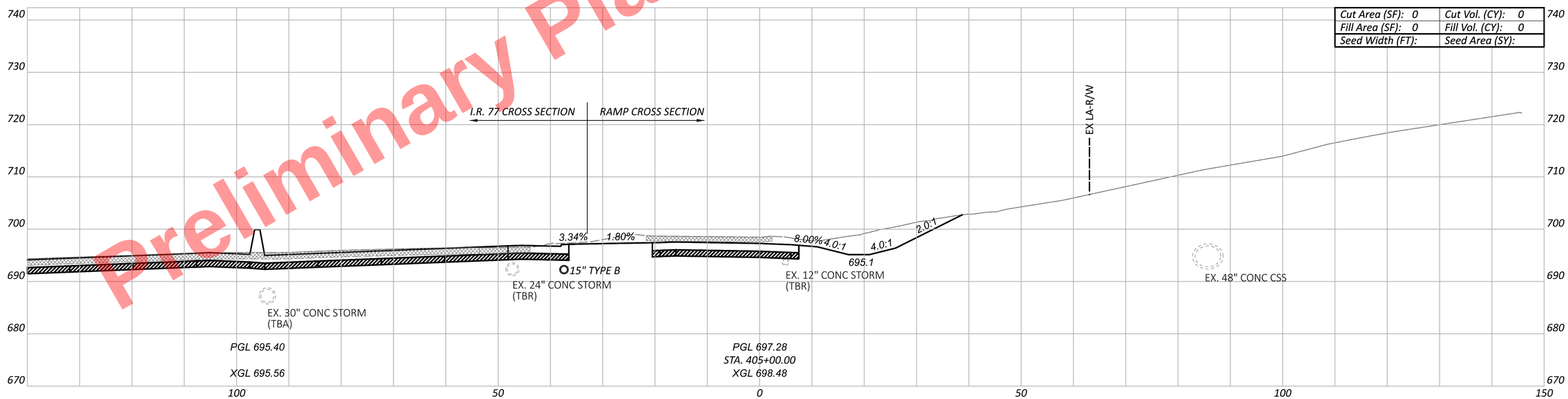
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.478 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A4
STA. 405+00.00 TO STA. 405+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.479 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A4 - 405+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:24:55 AM USER: kperkins
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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R283_A4 - 405+69.77 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:22 AM USER: kperkins
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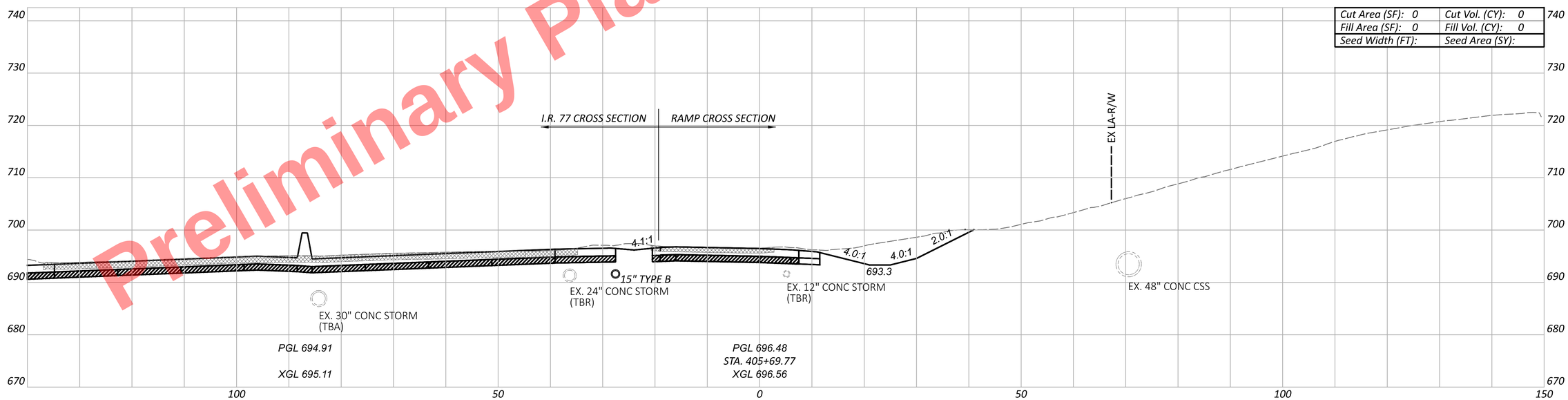
# CROSS SECTIONS - RAMP A4
## PHYSICAL GORE




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

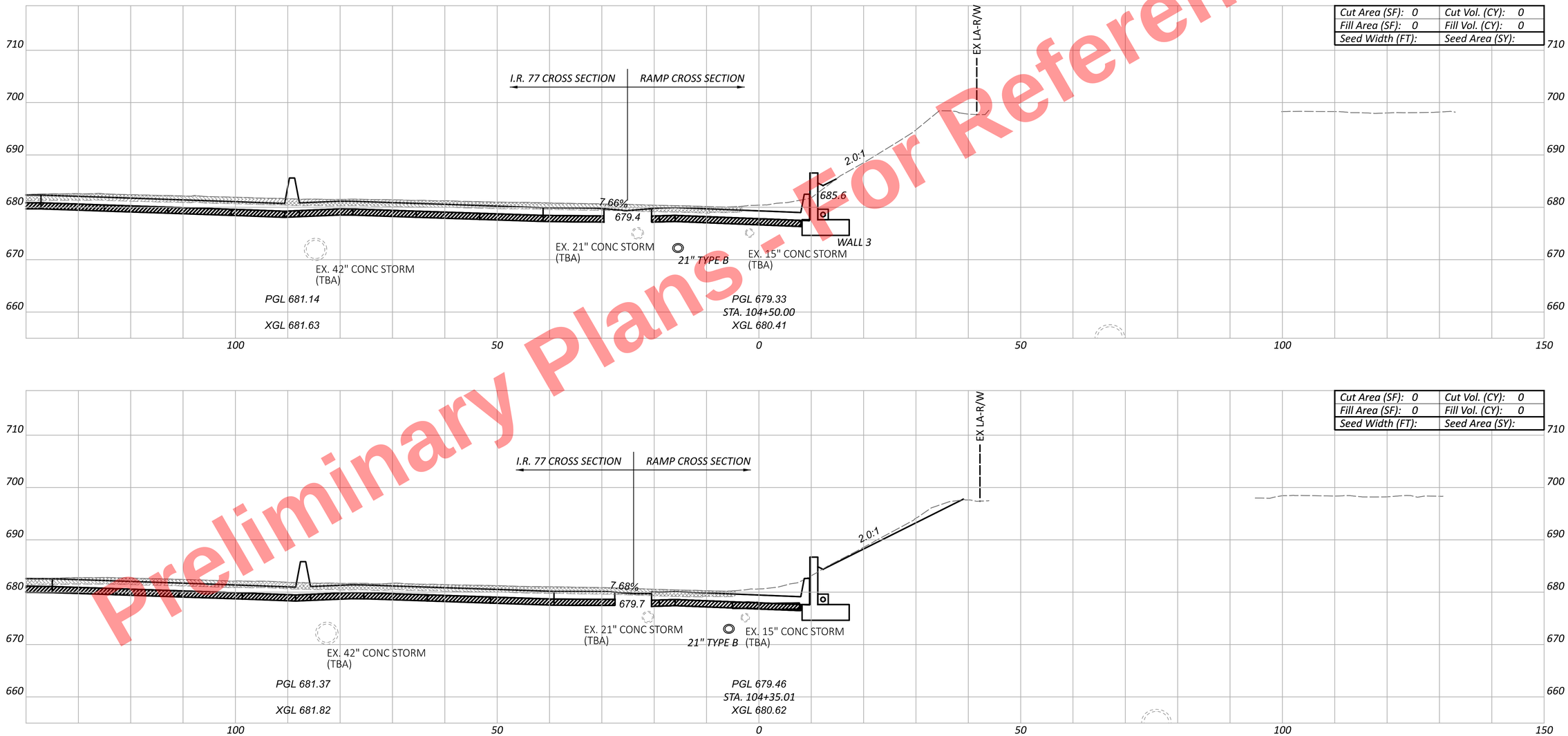
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.480 TOTAL P.1135

Preliminary Plans - Not For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP B1
PHYSICAL GORE TO STA. 104+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.481 TOTAL P.1135

MODEL: BLP_R043_B1 - 104+35.01 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:34 AM USER: kperkins
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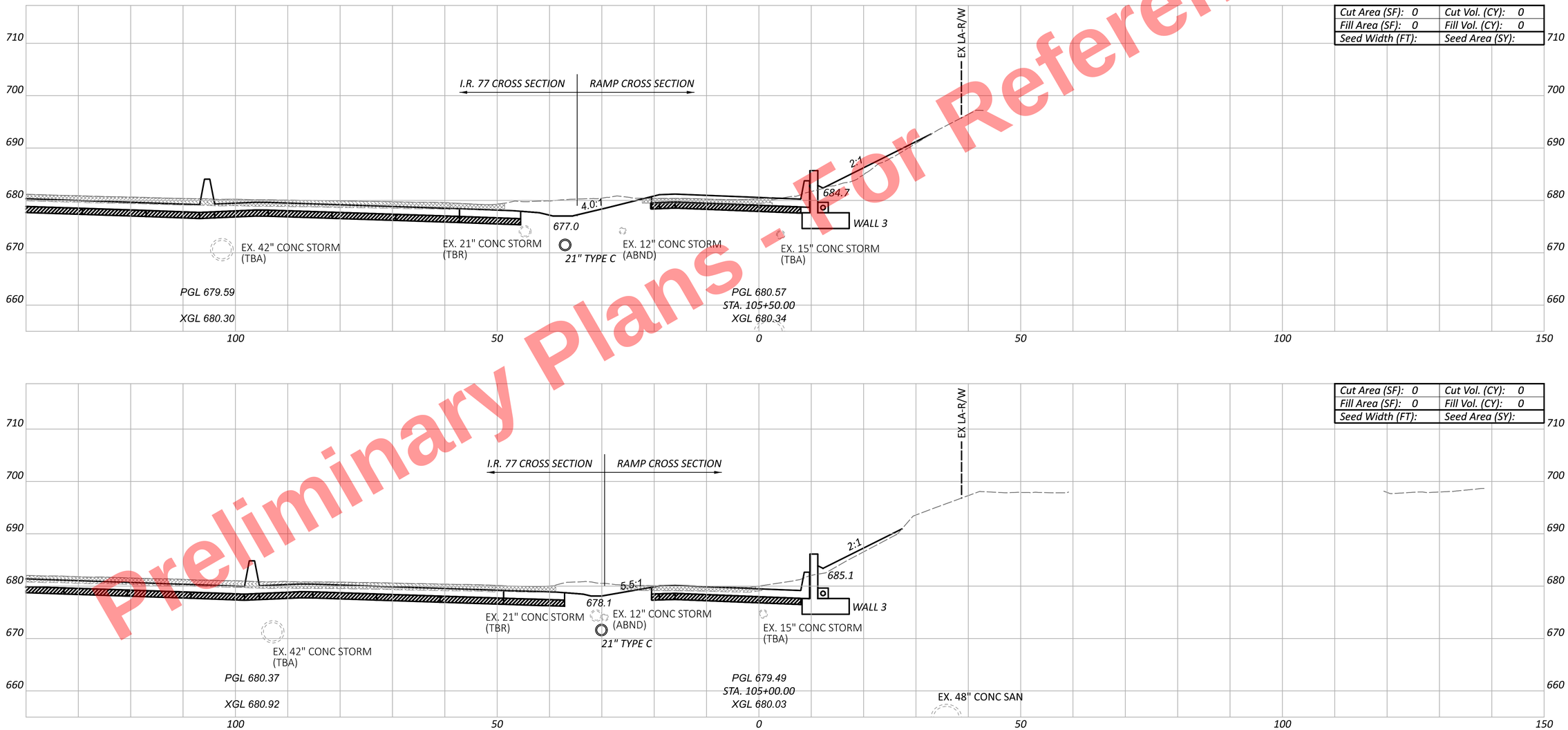
Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP B1
STA. 105+00.00 TO STA. 105+50.00

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B1 - 105+00.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:38 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

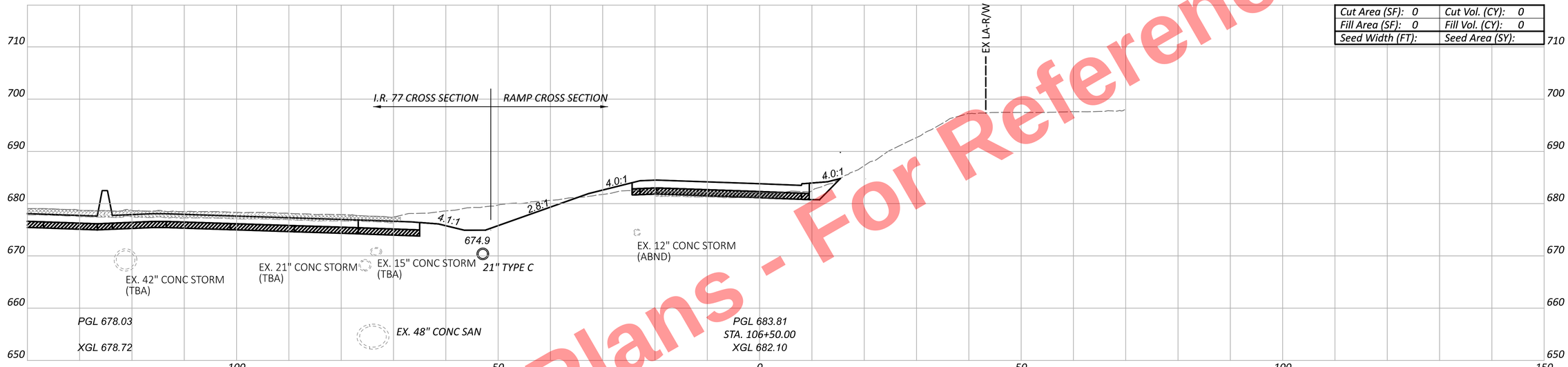
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

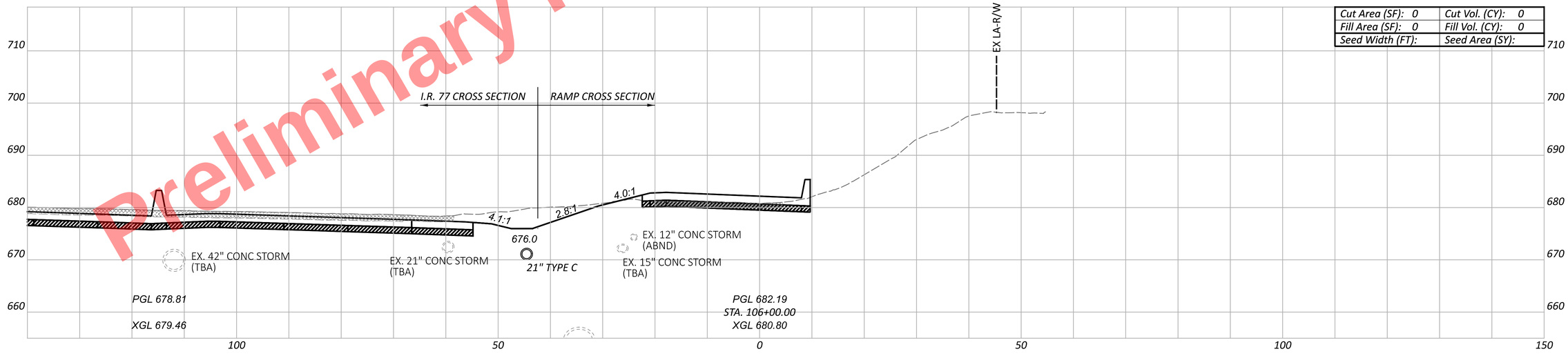
| SHEET | TOTAL |
|---|---|
| P.482 | P.1135 |

Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - RAMP B1
STA. 106+00.00 TO STA. 106+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.483 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B1 - 106+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:41 AM USER: kperkins
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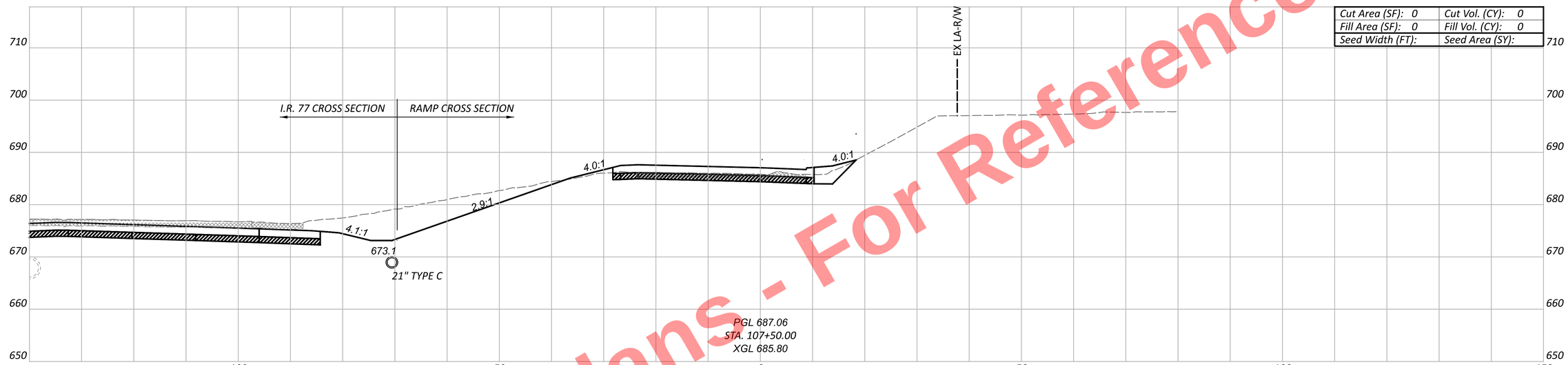
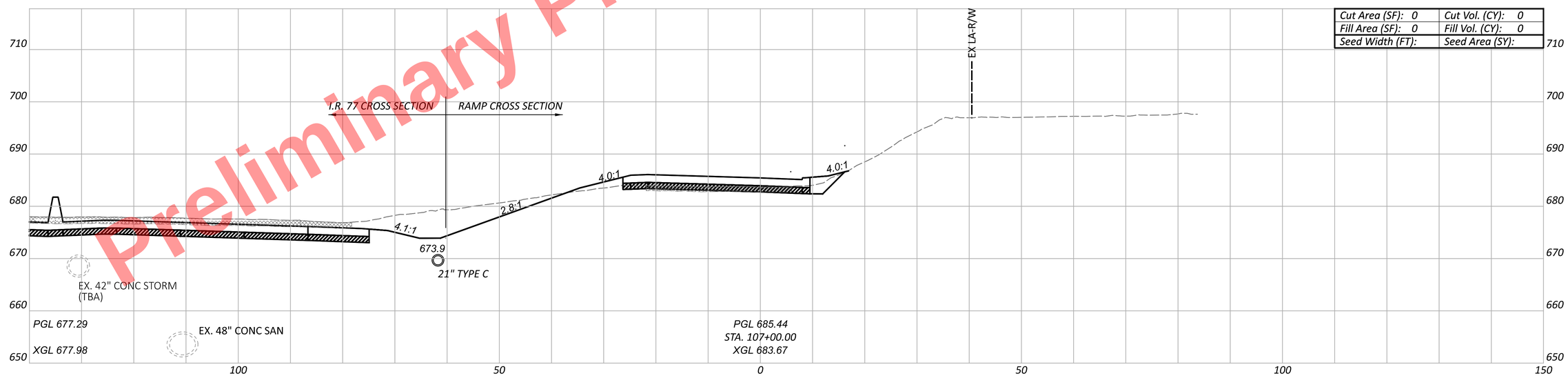
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP B1
STA. 107+00.00 TO STA. 107+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.484 TOTAL P.1135

MODEL: BLP_R043_B1 - 107+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:44 AM USER: kperkins
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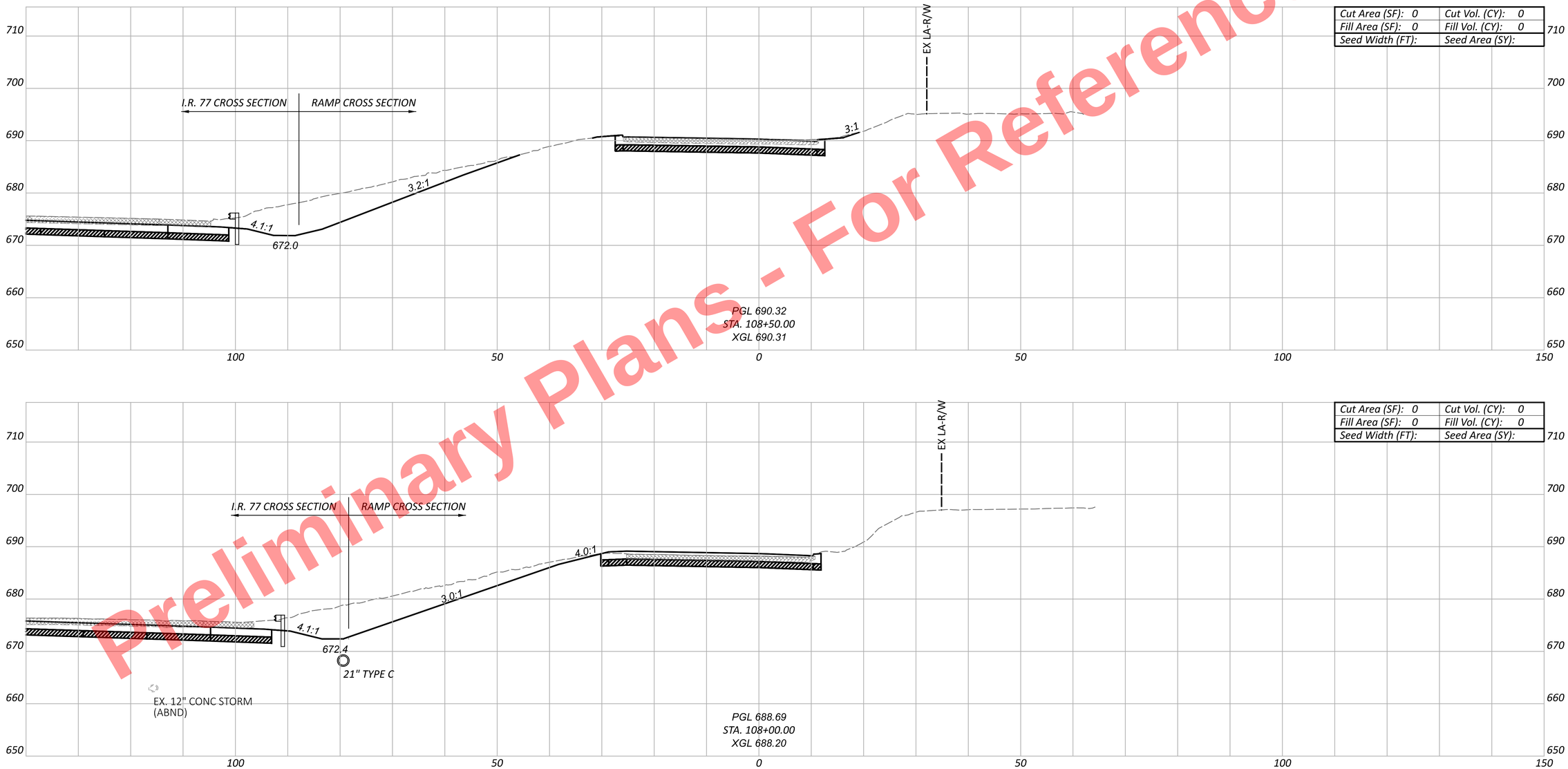
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B1
STA. 108+00.00 TO STA. 108+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

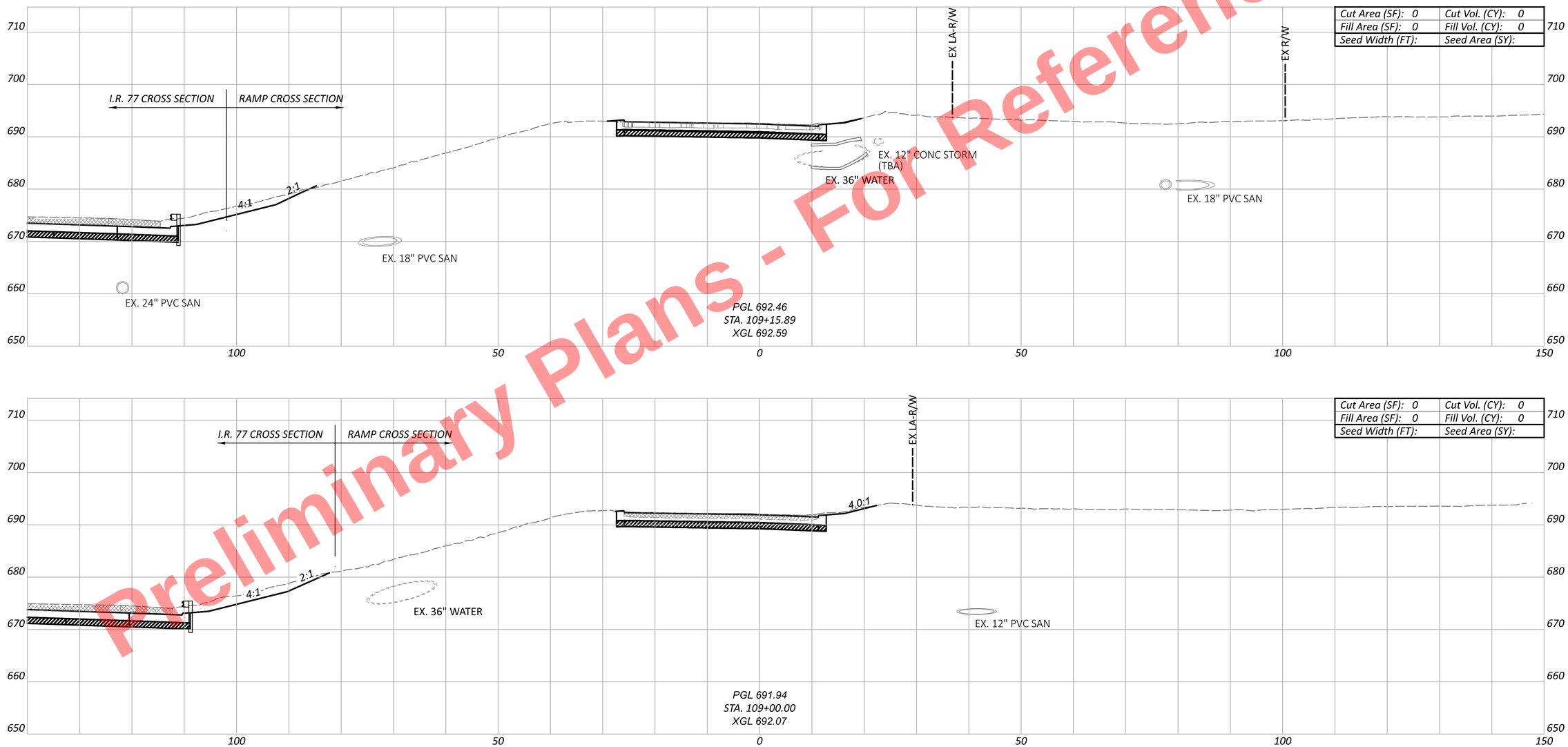
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.485 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP B1
# 109+00.00 TO END WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.486 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B1 - 109+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:25:52 AM USER: kperkins
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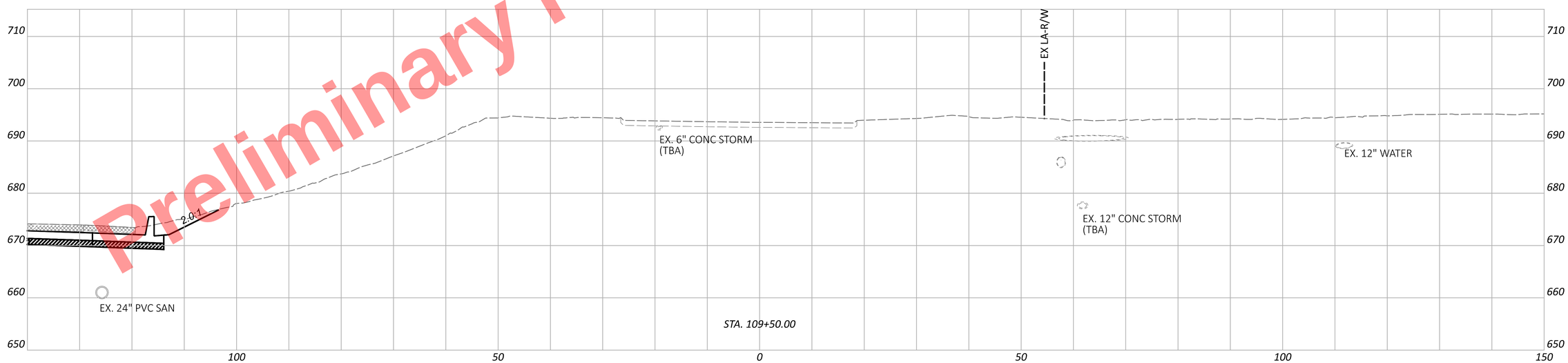



CROSS SECTIONS - RAMP B1
STA. 109+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

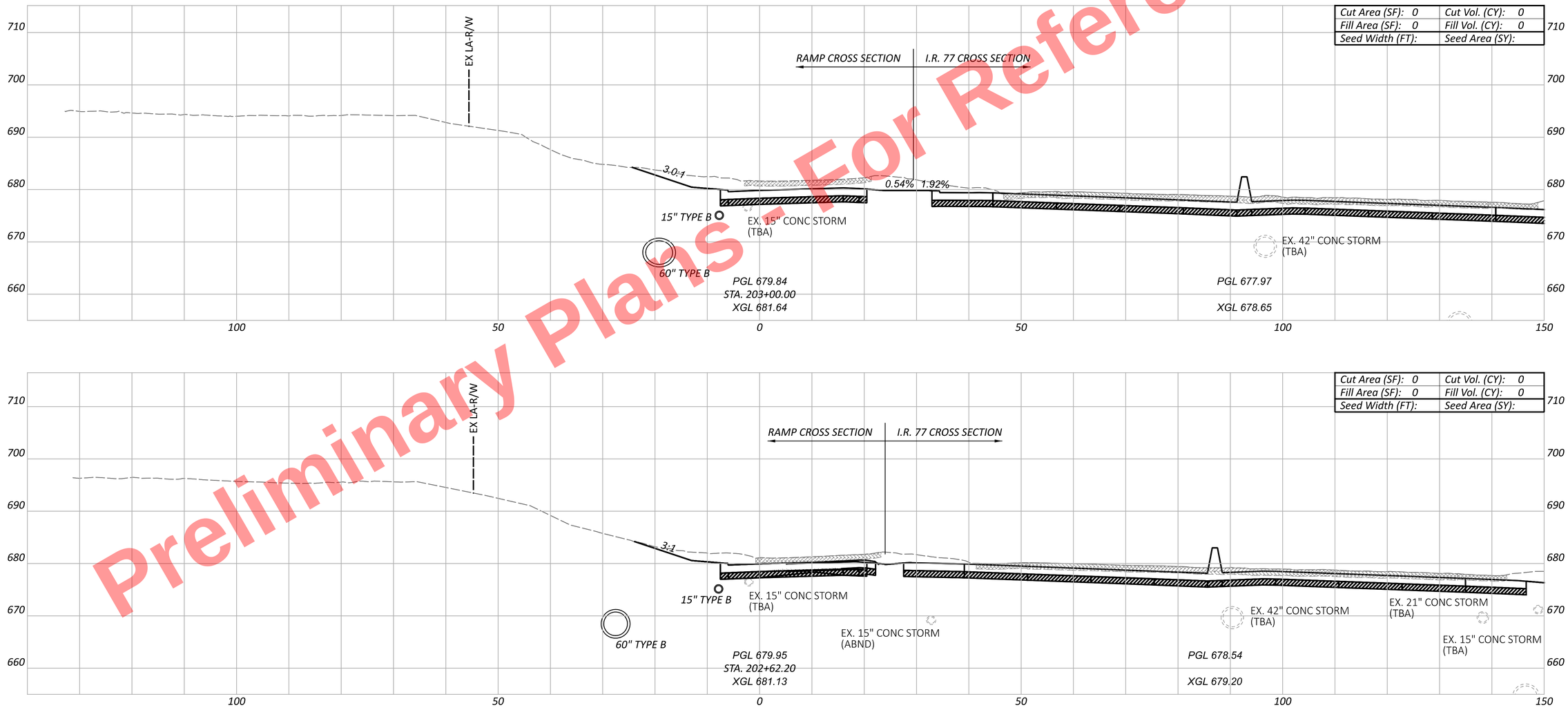
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.487 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B2
PHYSICAL GORE TO STA. 203+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

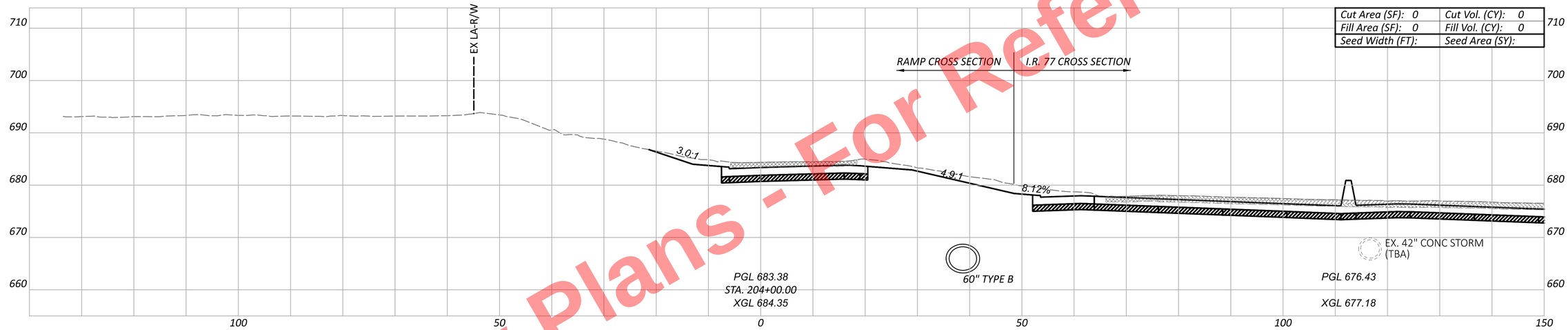
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.488 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
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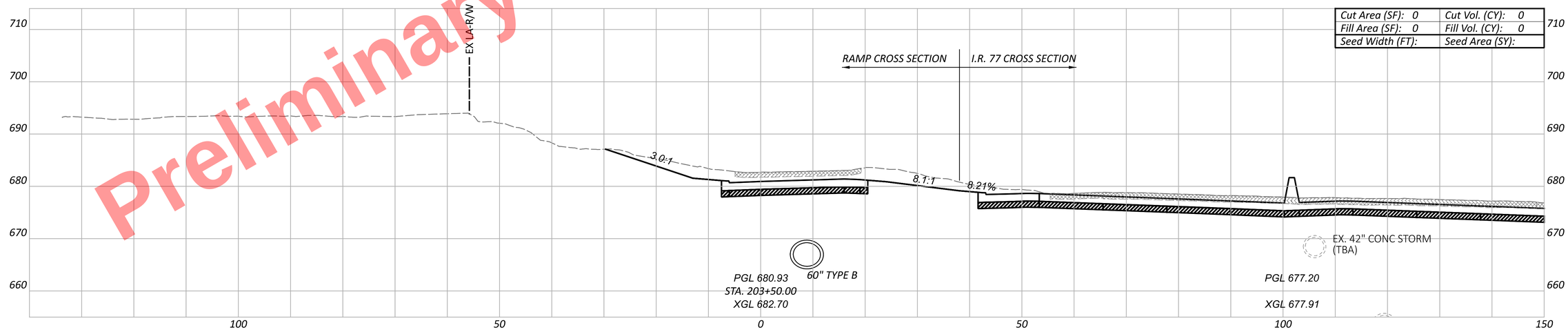
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B2
STA. 203+50.00 TO STA. 204+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

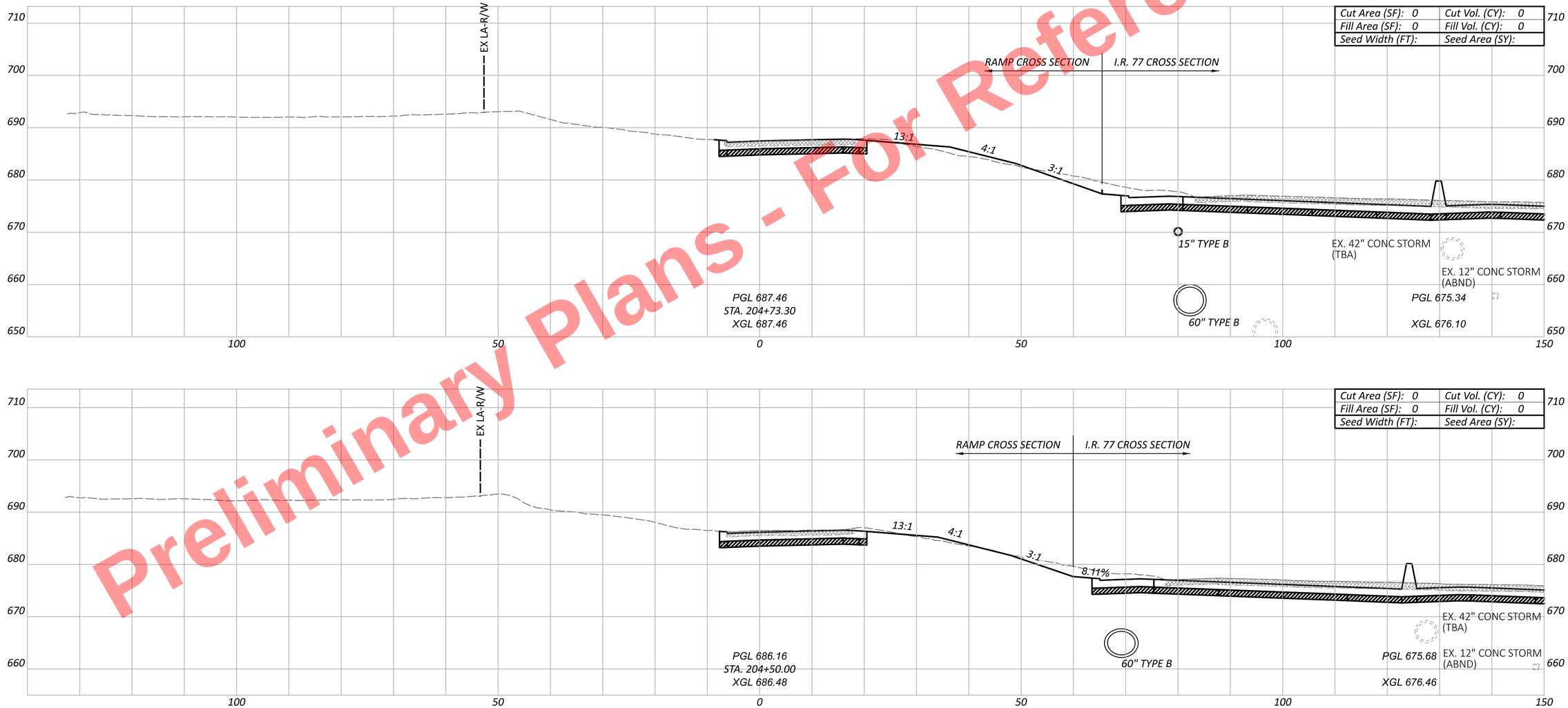
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.489 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP B2
STA. 204+50.00 TO END WORK

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B2 - 204+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:00 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.490 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B2 - 205+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:03 AM USER: kperkins
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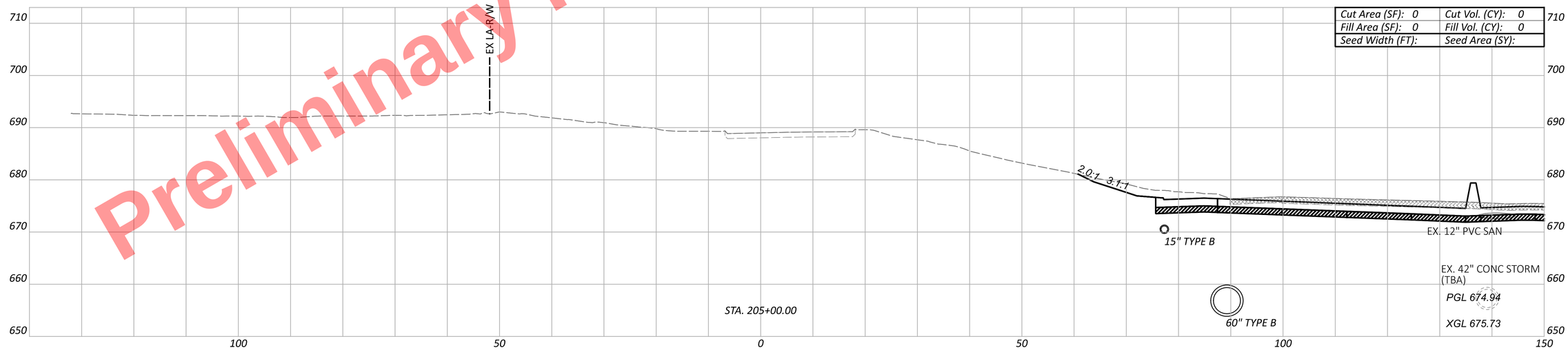
# CROSS SECTIONS - RAMP B2
## STA. 205+00.00




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.491 TOTAL P.1135

Preliminary Plans - For Reference Only

| | |
|---|---|
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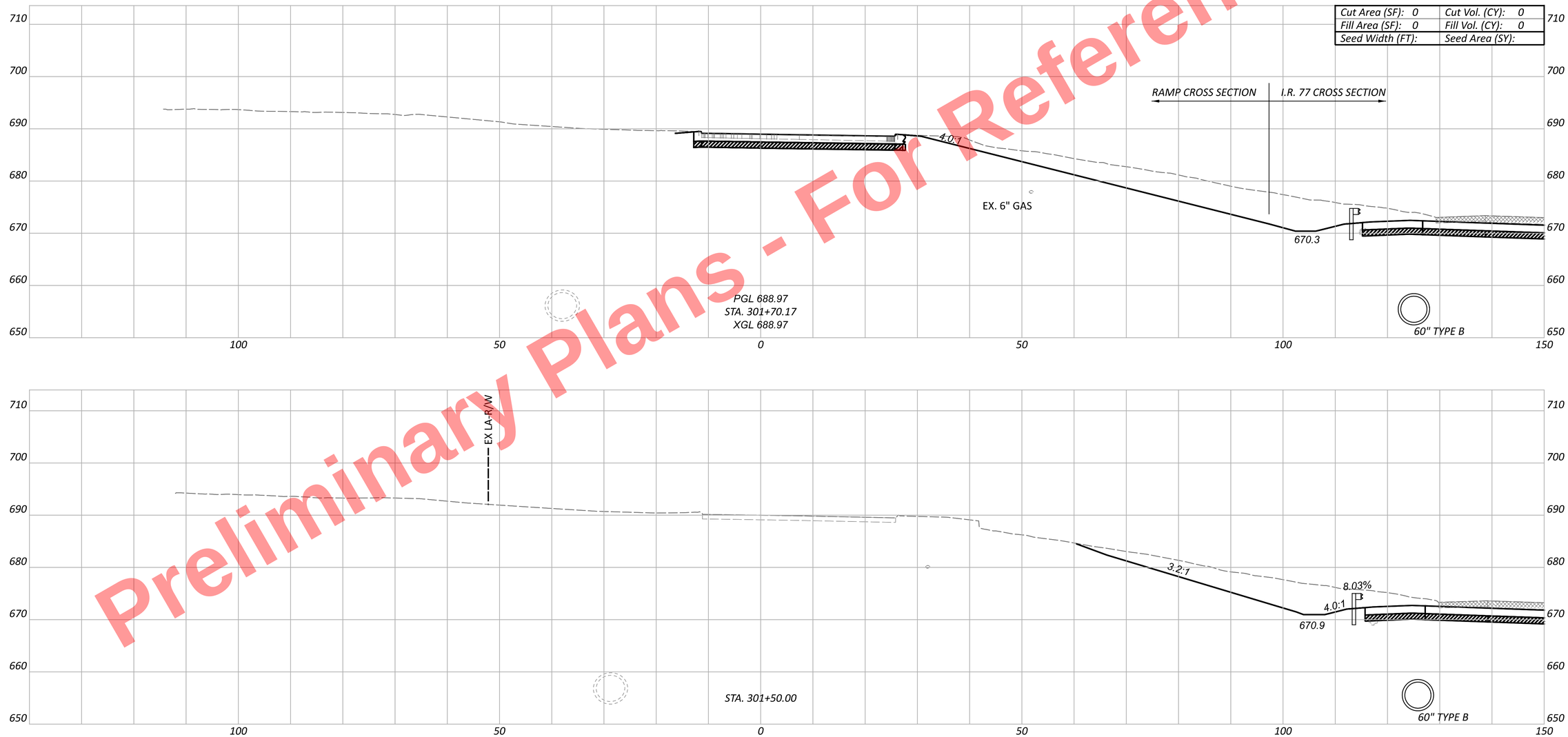
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




# CROSS SECTIONS - RAMP B3
# STA. 301+50.00 TO BEGIN WORK

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY: HNTB

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.492 |
| TOTAL | P.1135 |

CUY-77-11.43 - PART 1

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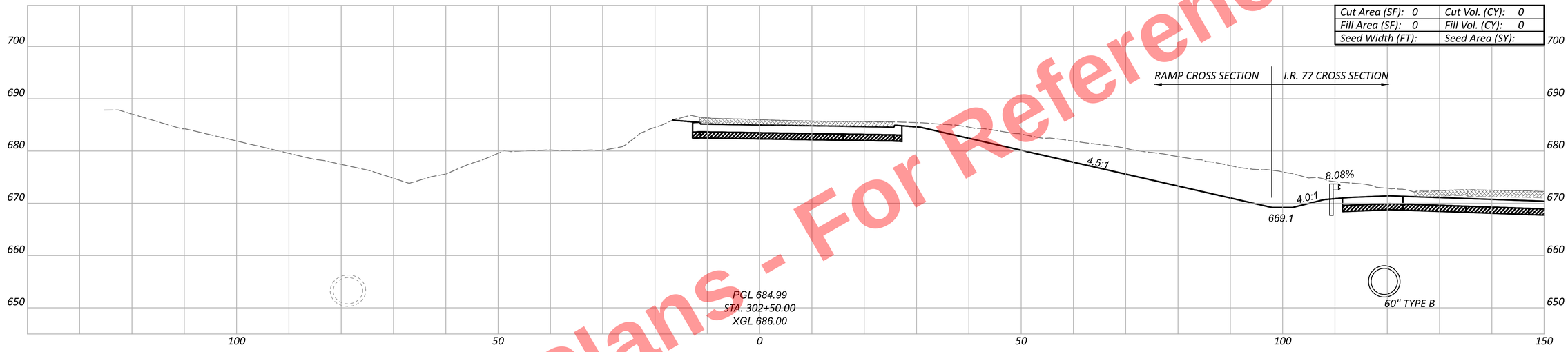
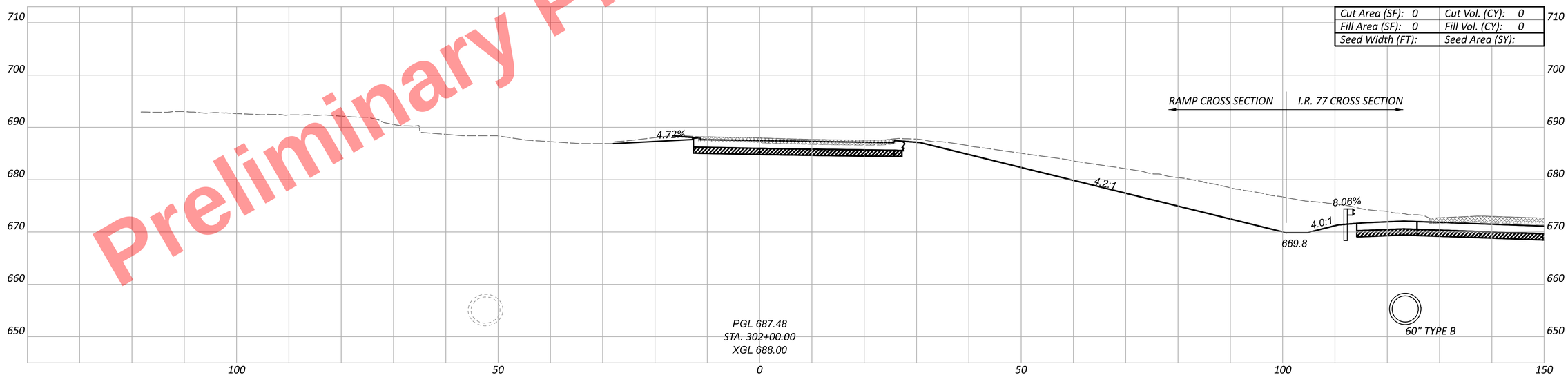
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B3
STA. 302+00.00 TO STA. 302+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

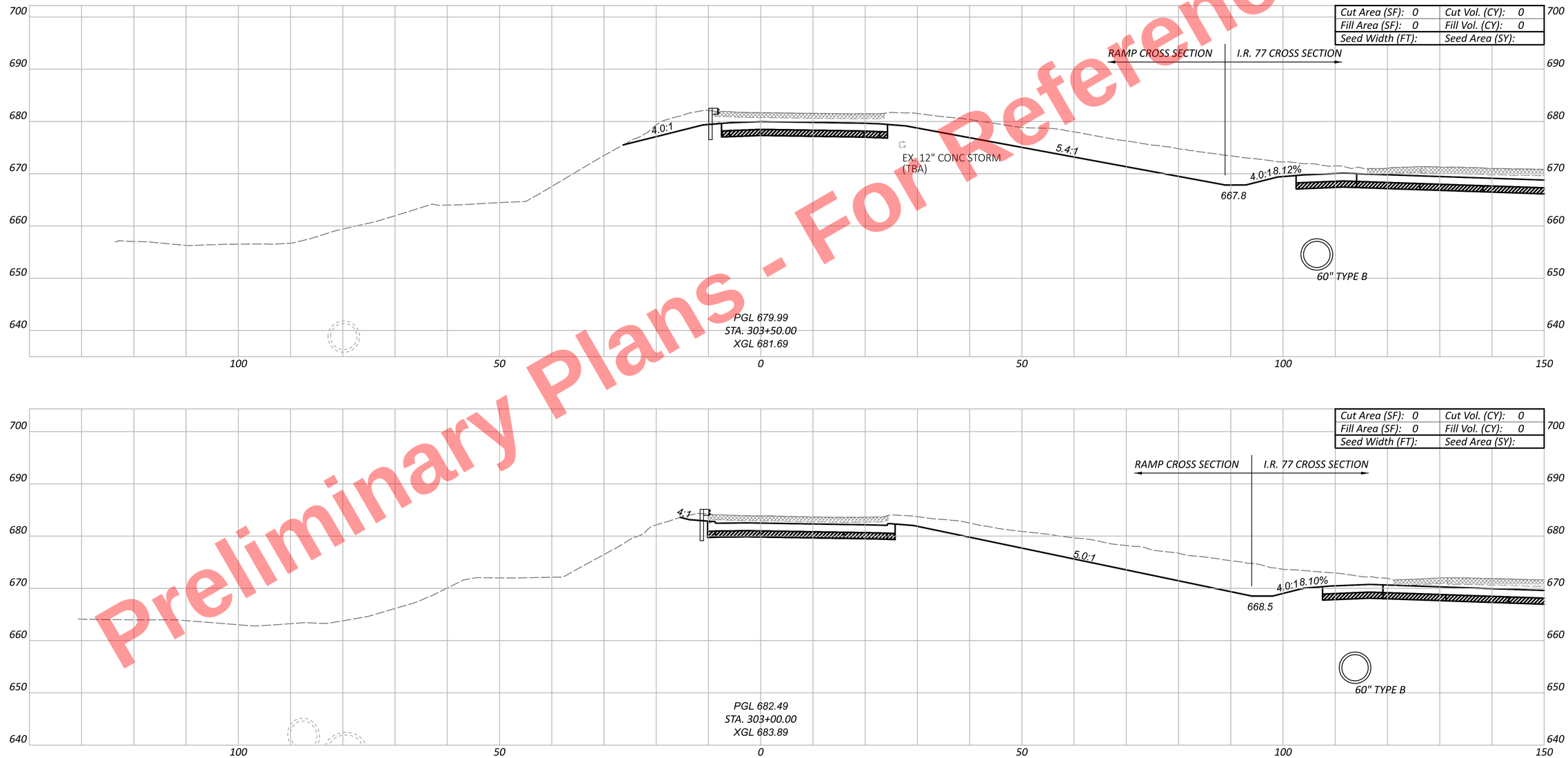
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.493 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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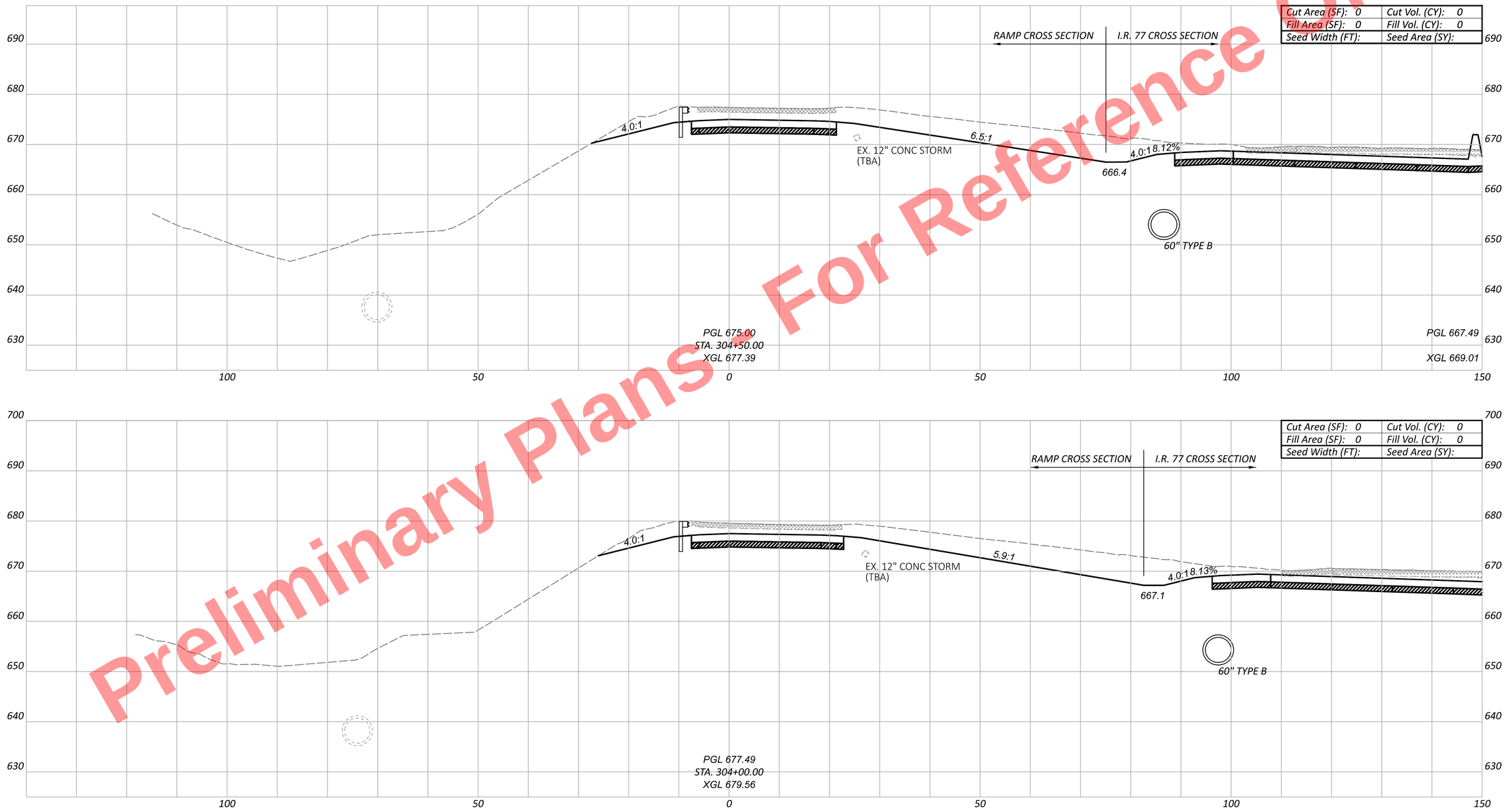
# CROSS SECTIONS - RAMP B3
## STA. 303+00.00 TO STA. 303+50.00

DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.494 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B3
STA. 304+00.00 TO STA. 304+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

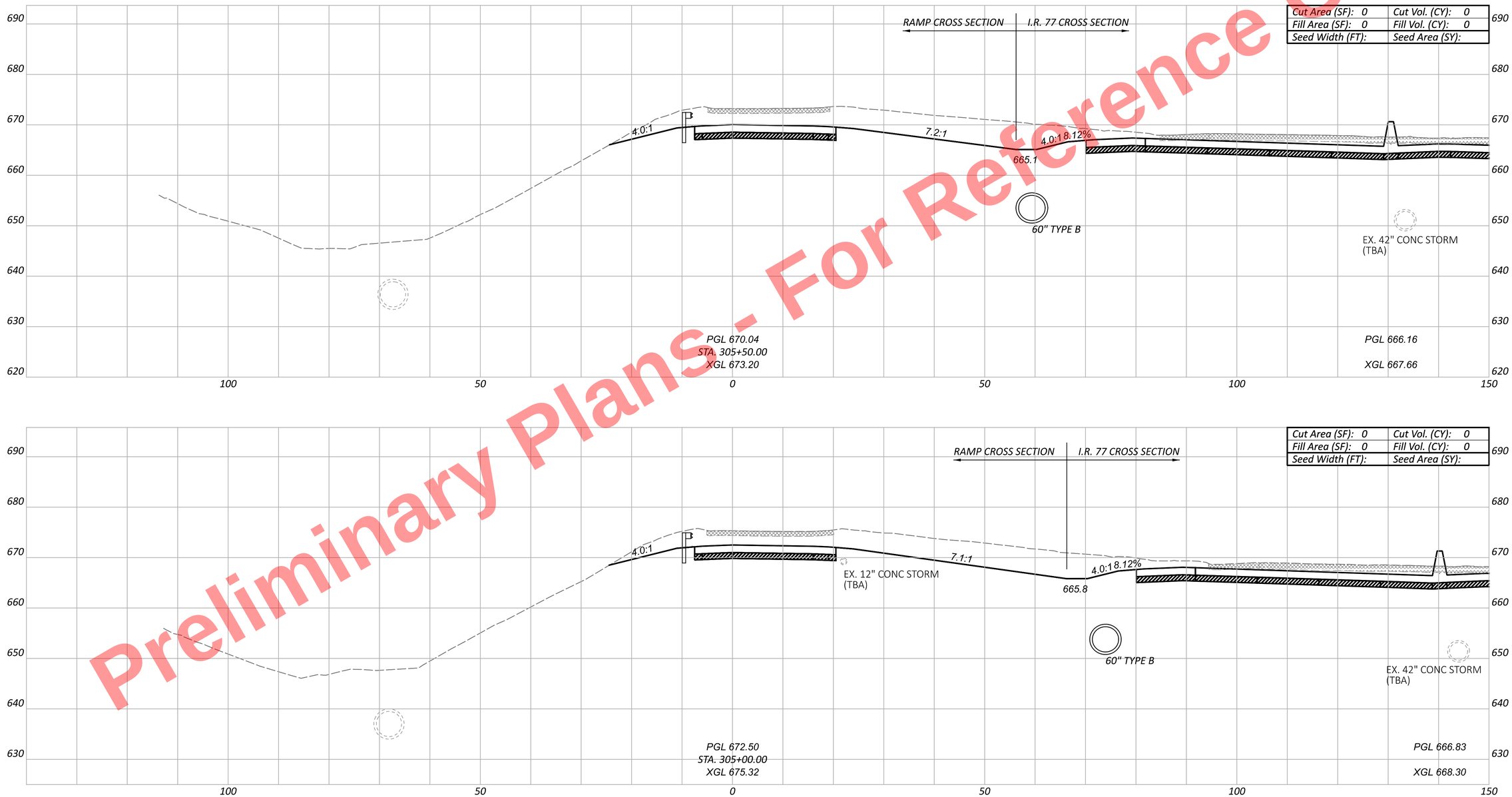
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| SHEET | TOTAL |
|---|---|
| P.495 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP B3
STA. 305+00.00 TO STA. 305+50.00

CUY-77-11.43 - PART 1

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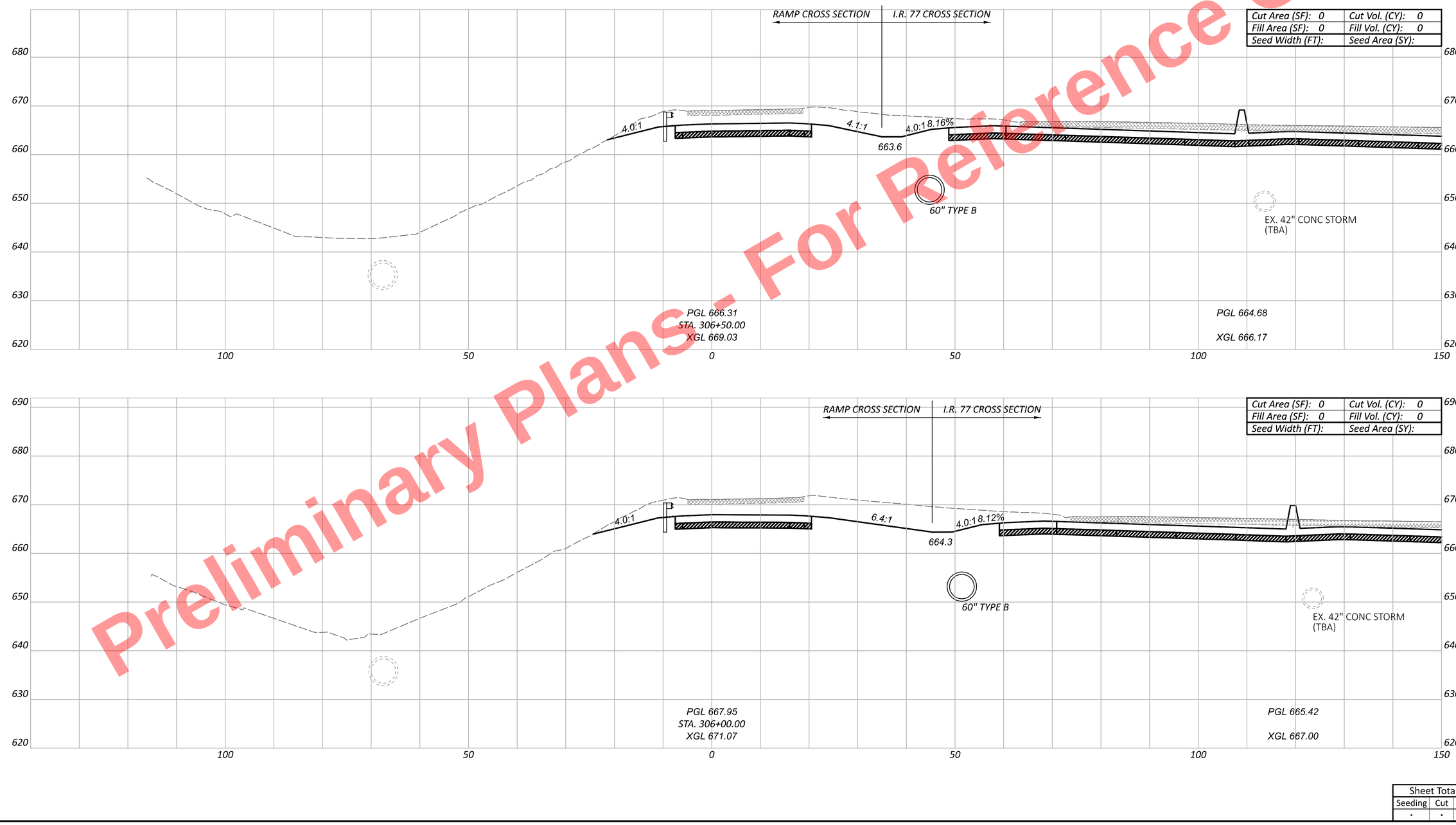
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.496 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP B3
STA. 306+00.00 TO STA. 306+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

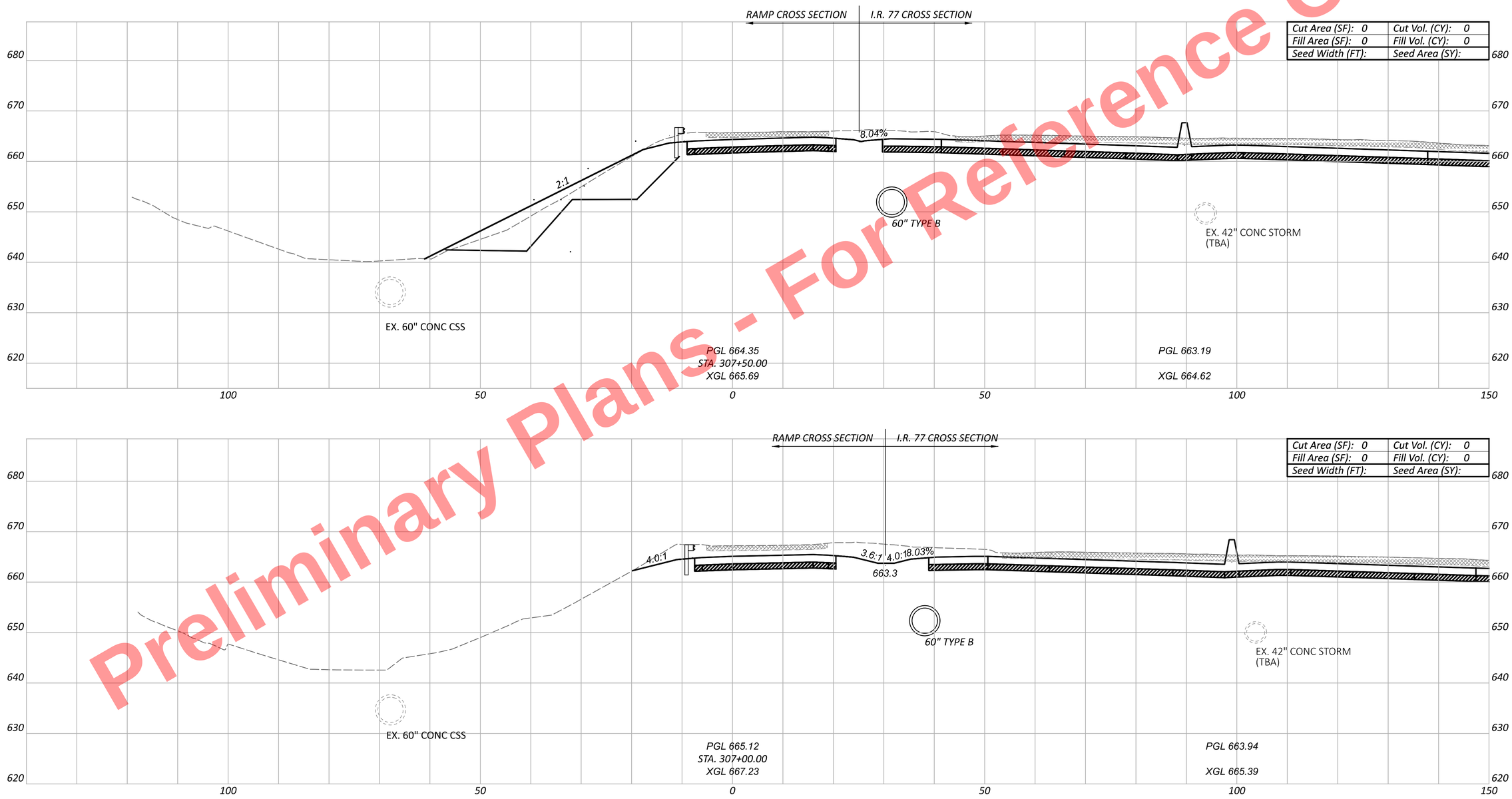
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.497 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP B3
STA. 307+00.00 TO STA. 307+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.498 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R043_B3 - 307+62.85 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:23 AM USER: kperkins
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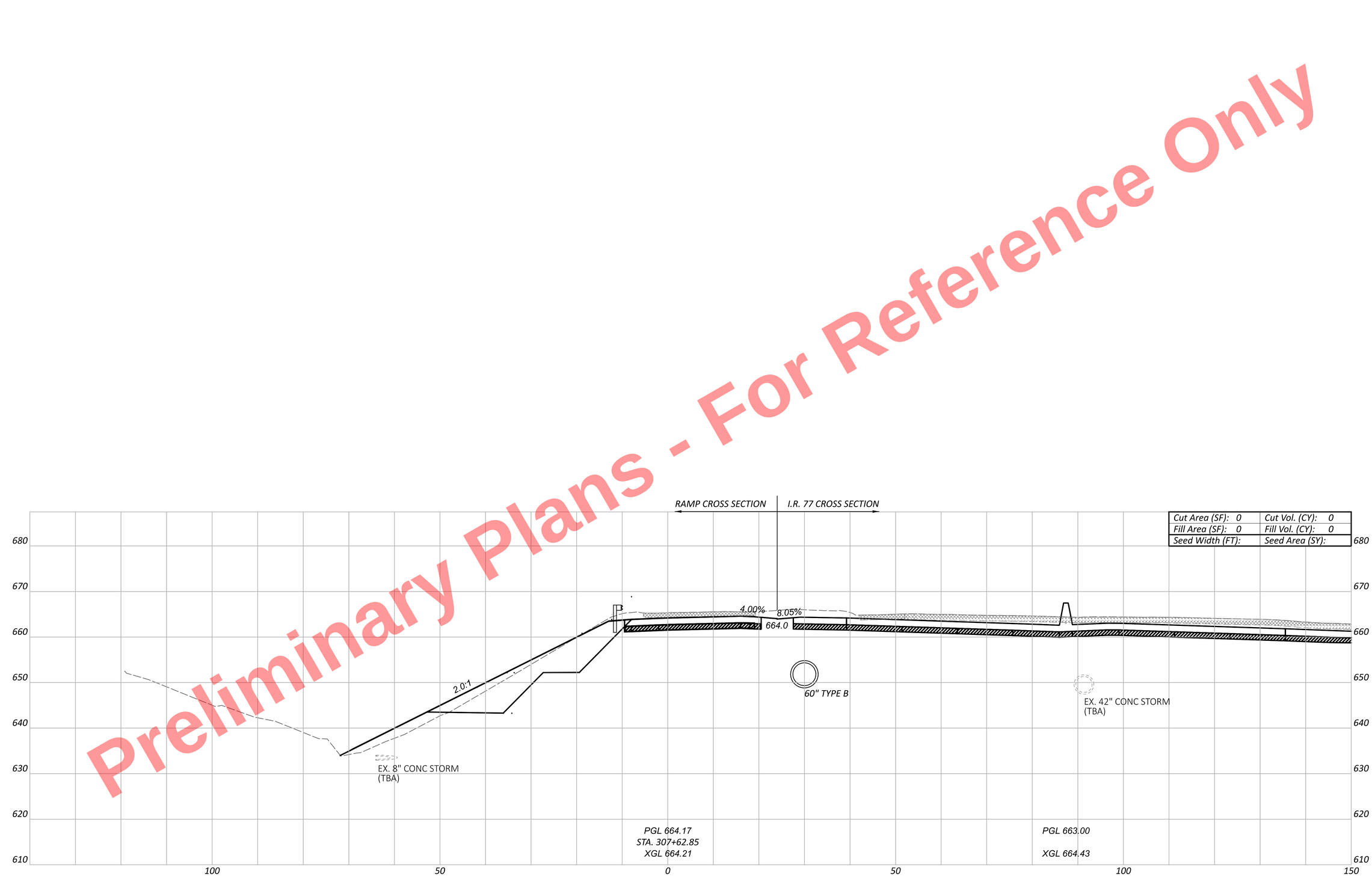


CROSS SECTIONS - RAMP B3
PHYSICAL GORE

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.499 TOTAL P.1135

Preliminary Plans - For Reference Only

| | |
|---|---|
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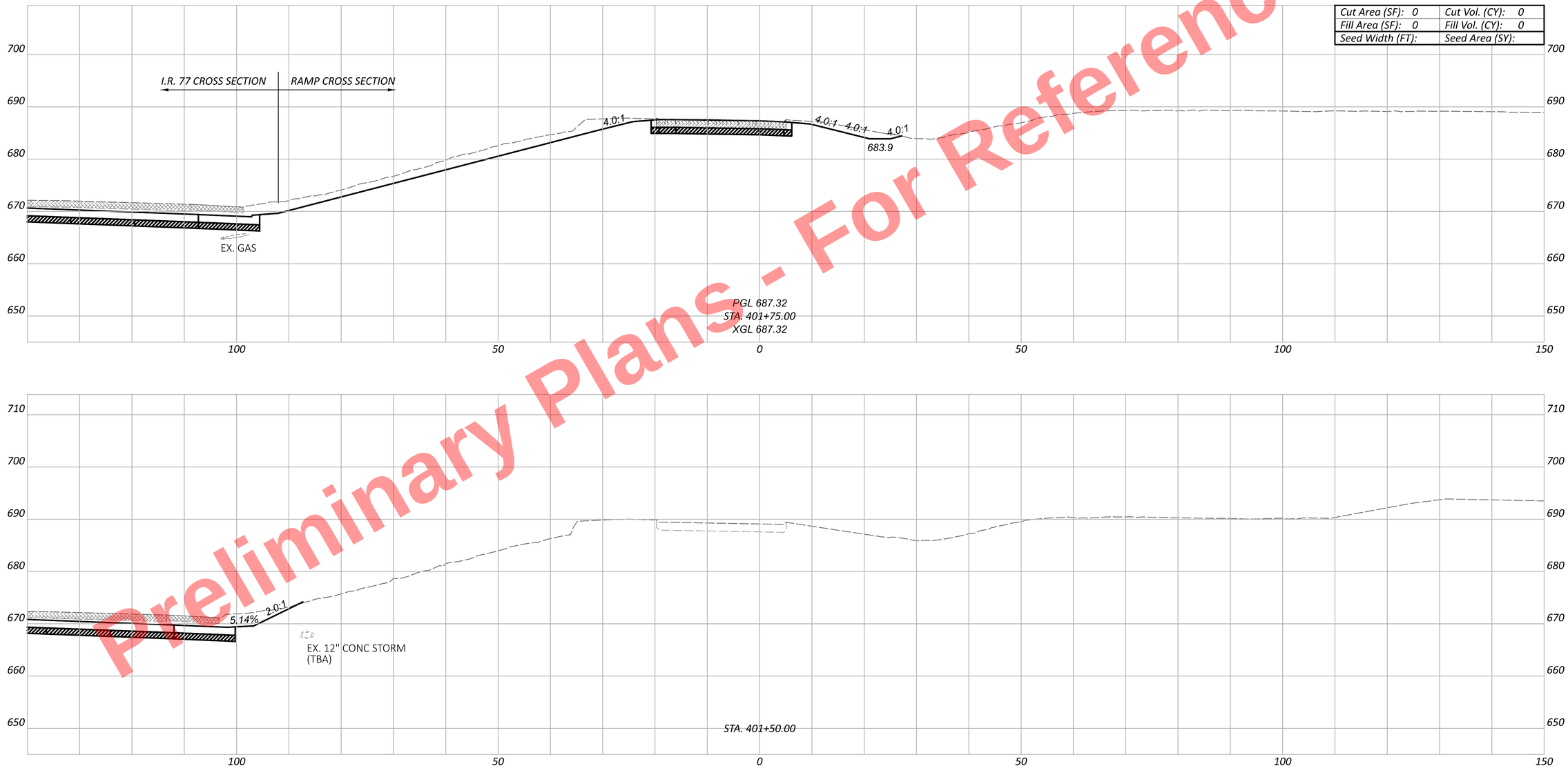
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

MODEL: BLP_R043_B4 - 401+50.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:25 AM USER: kperkins
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CROSS SECTIONS - RAMP B4
STA. 401+50.00 TO BEGIN WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

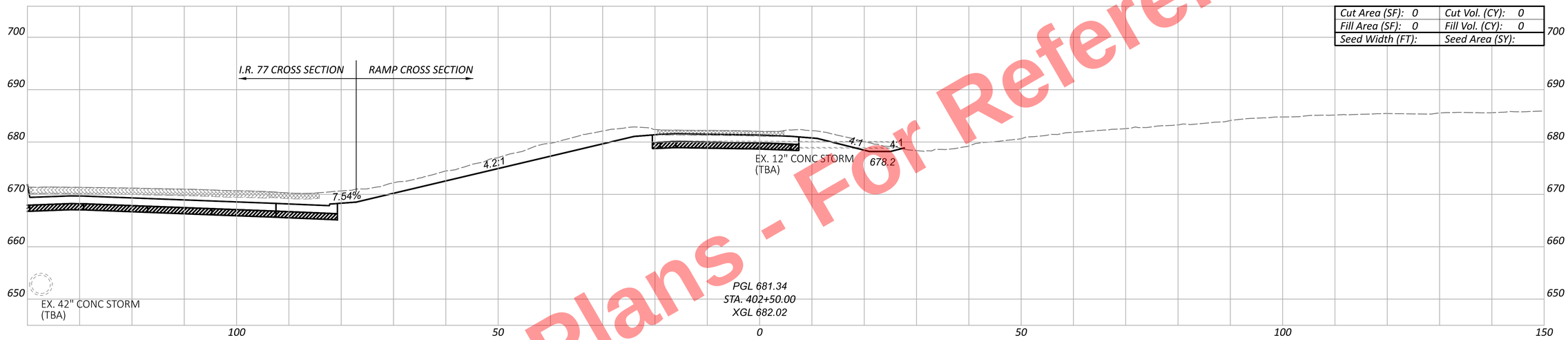
REVIEWER
MTR 04/01/22

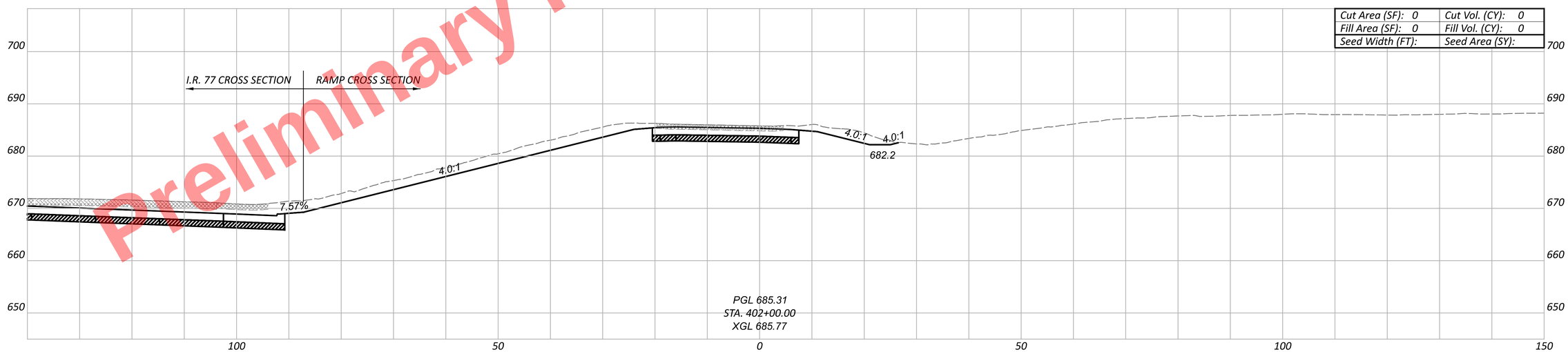
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.500 | P.1135 |

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: BLP_R043_B4 - 402+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:27 AM USER: kperkins
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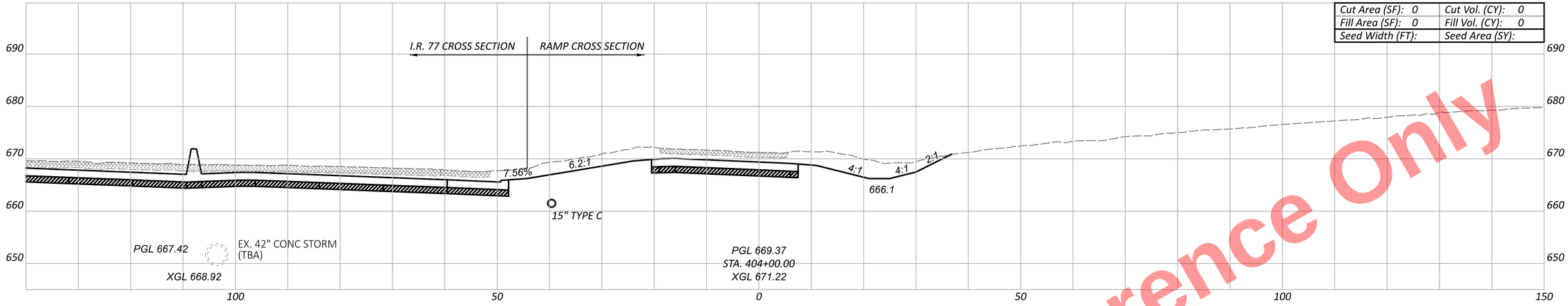
CROSS SECTIONS - RAMP B4
STA. 402+00.00 TO STA. 402+50.00

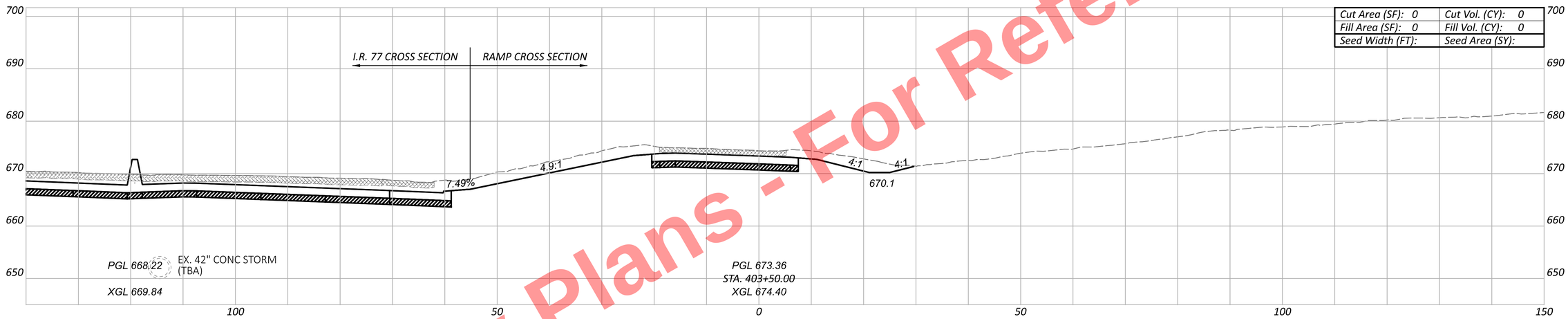
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

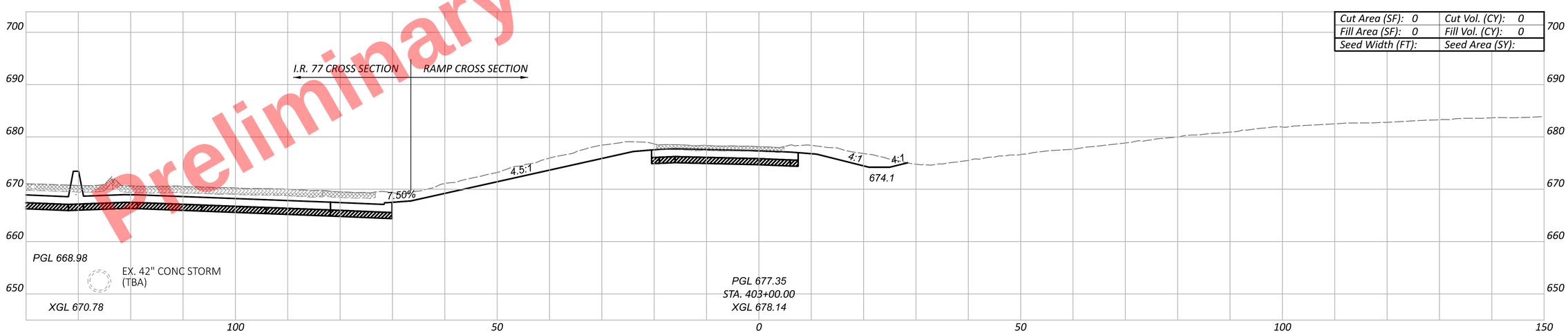
| | |
|---|---|
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.501 |
| TOTAL | P.1135 |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

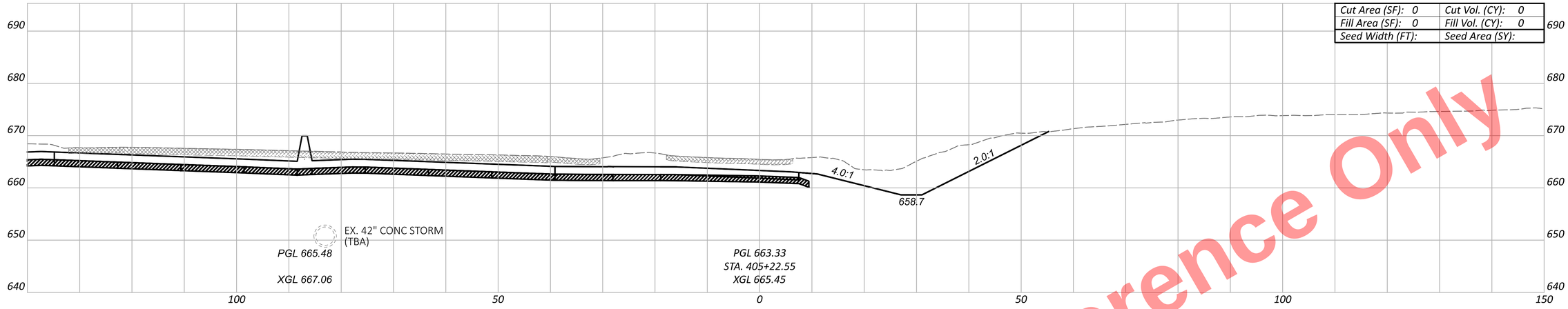
MODEL: BLP_R043_B4 - 403+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS301.dgn

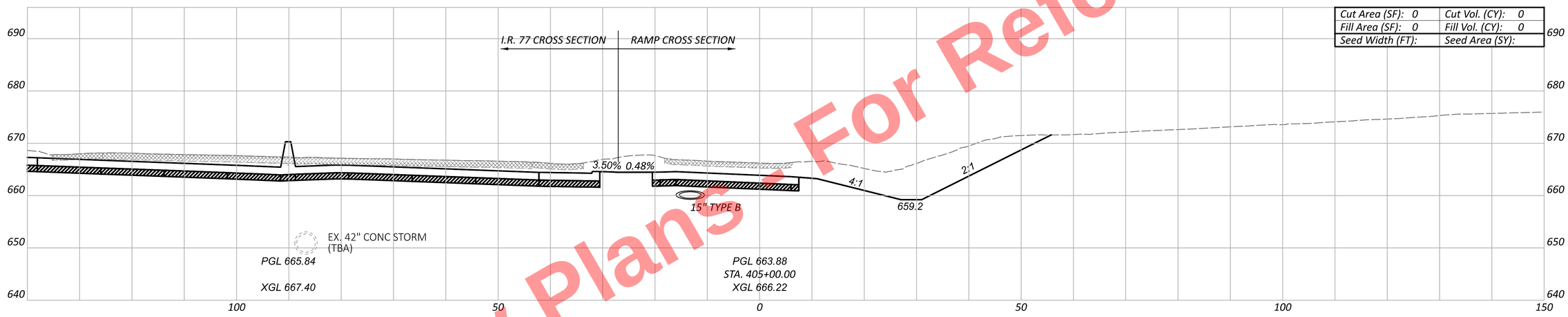
CROSS SECTIONS - RAMP B4
STA. 403+00.00 TO STA. 404+00.00

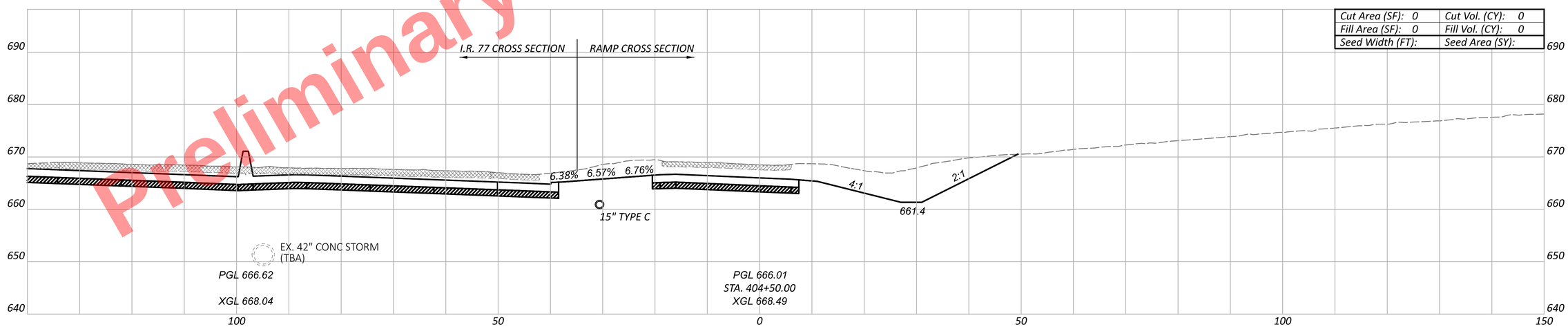
DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.502 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP B4
STA. 404+50.00 TO PHYSICAL GORE

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.503 TOTAL P.1135

MODEL: BLP_R043_B4 - 404+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:33 AM USER: kperkins
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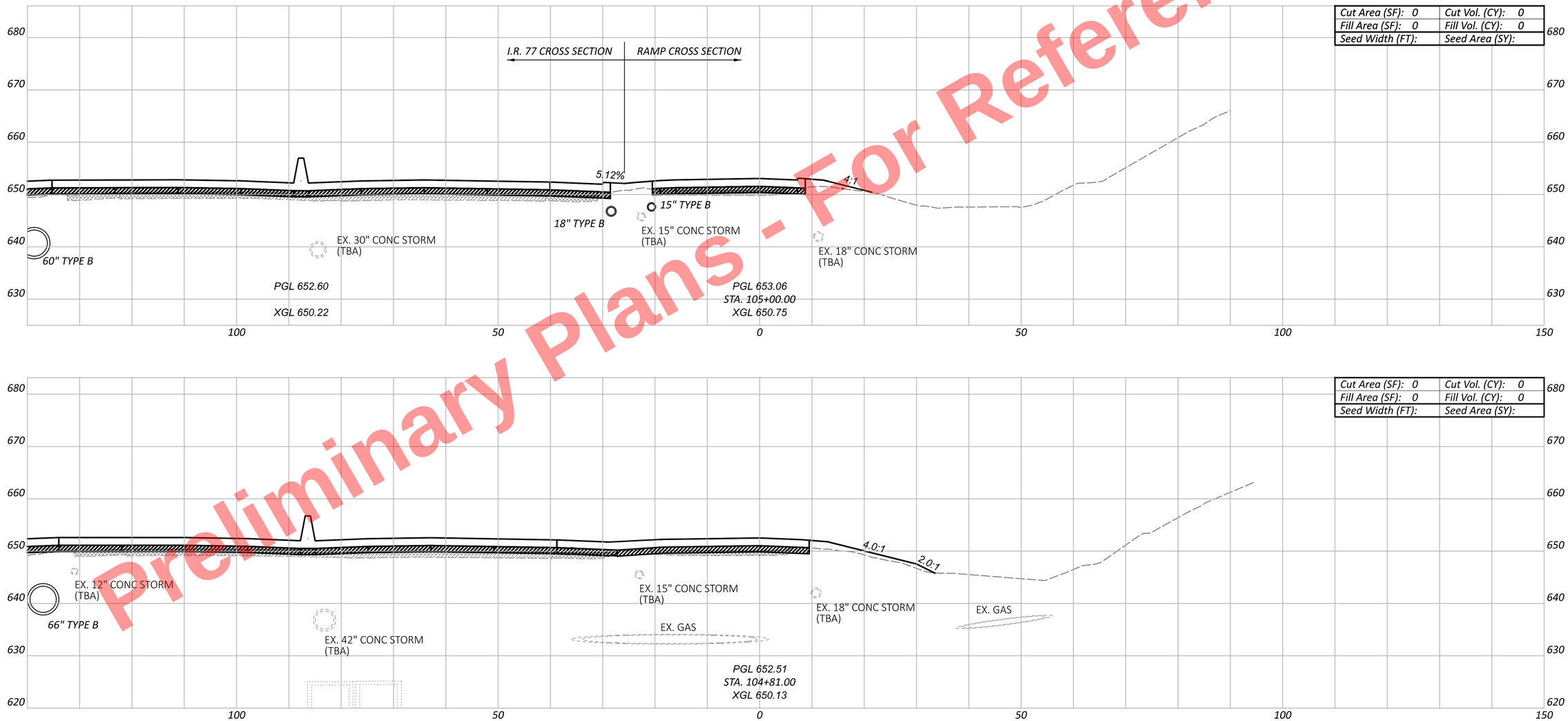
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP C1
## PHYSICAL GORE TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.504 TOTAL P.1135

Preliminary Plans - For Reference Only

| | |
|---|---|
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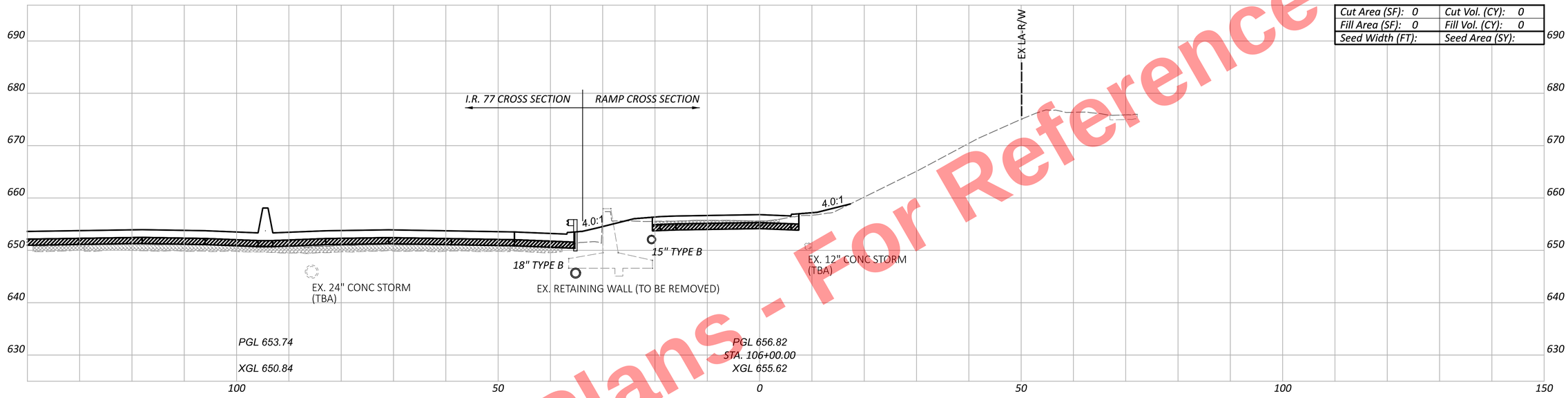
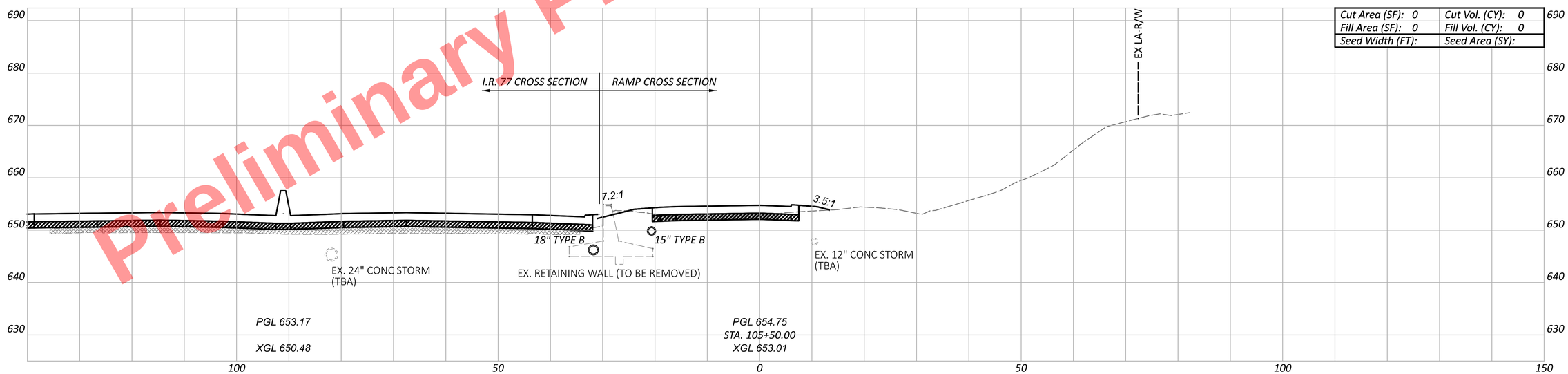
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP C1
STA. 105+50.00 TO STA. 106+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

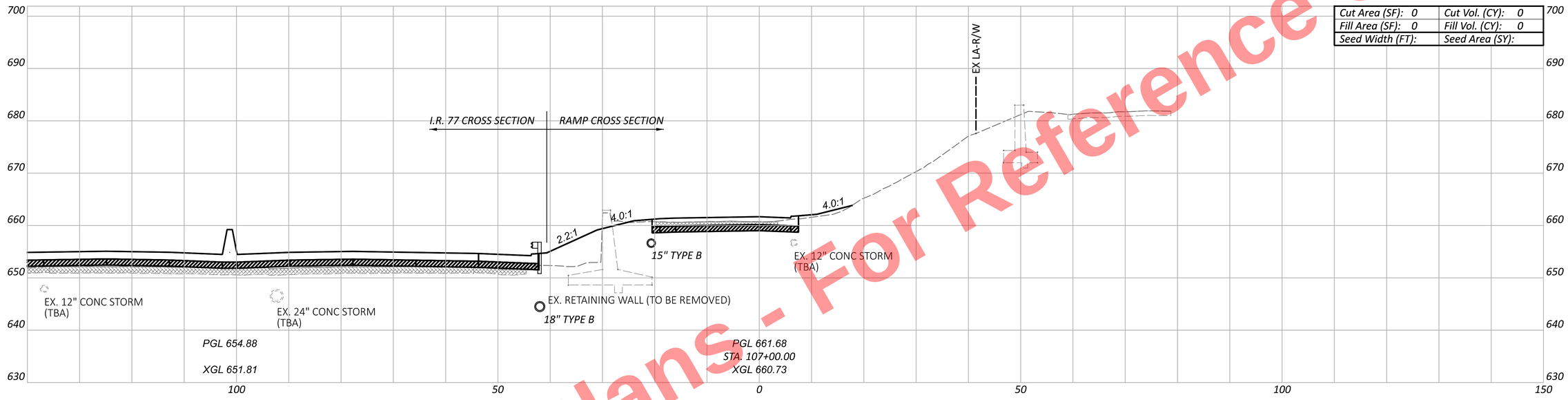
REVIEWER
MTR 04/01/22

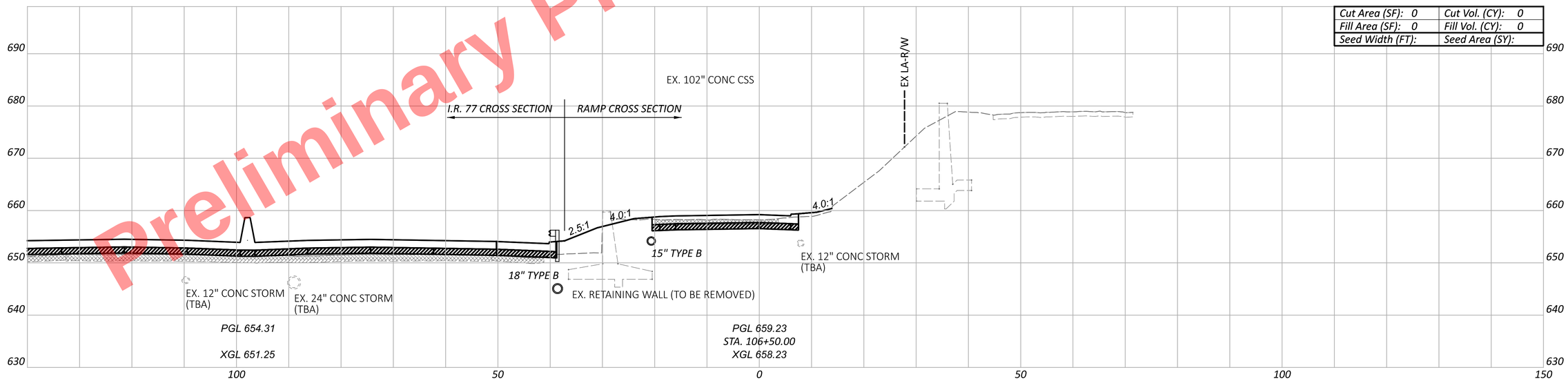
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.505 | P.1135 |

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: BLP_R743_C1 - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:49 AM USER: kperkins
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CROSS SECTIONS - RAMP C1
STA. 106+50.00 TOSTA. 107+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.506 TOTAL P.1135

For Reference Only
Preliminary Plans

| | |
|---|---|
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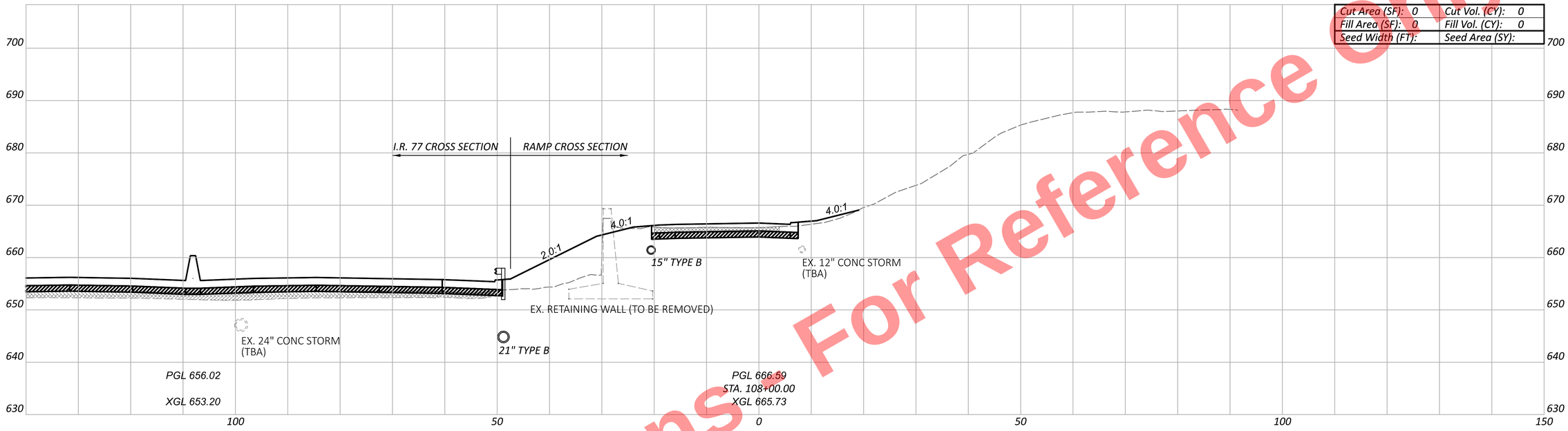
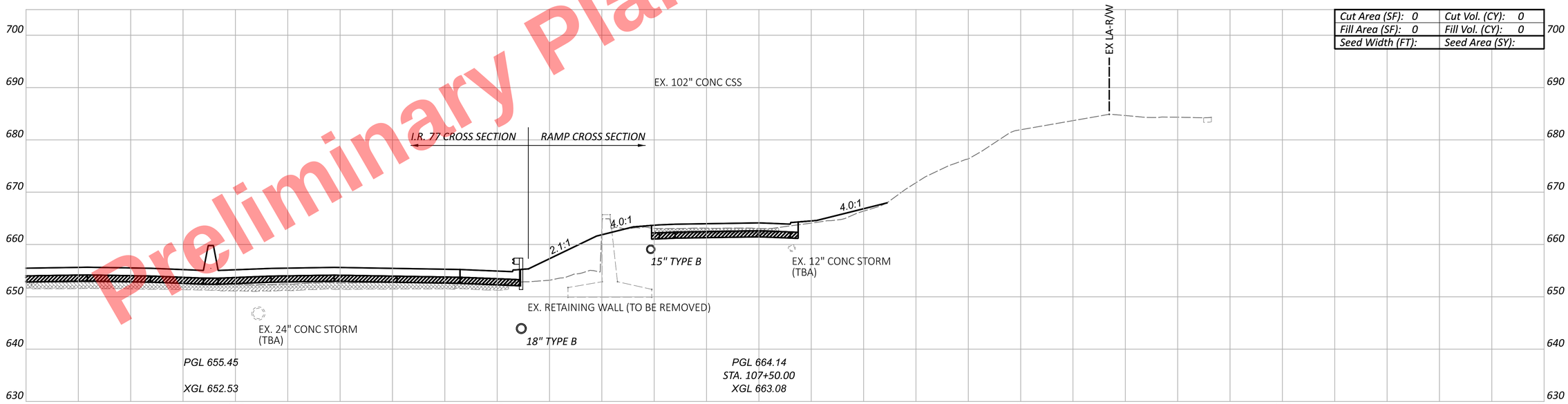
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - RAMP C1
STA. 107+50.00 TOSTA. 108+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.507 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C1 - 107+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:51 AM USER: kperkins
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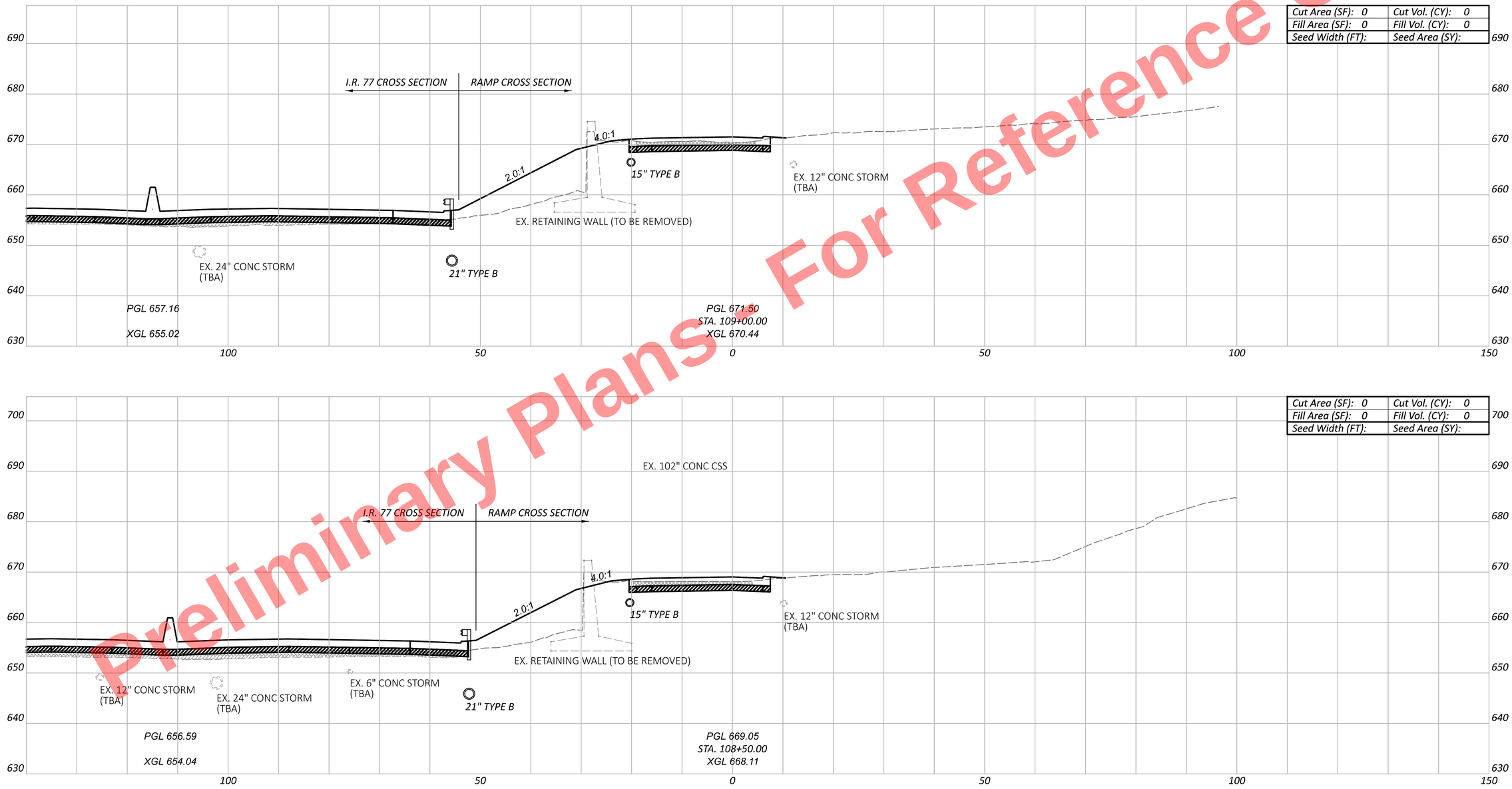
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP C1
STA. 108+50.00 TOSTA. 109+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

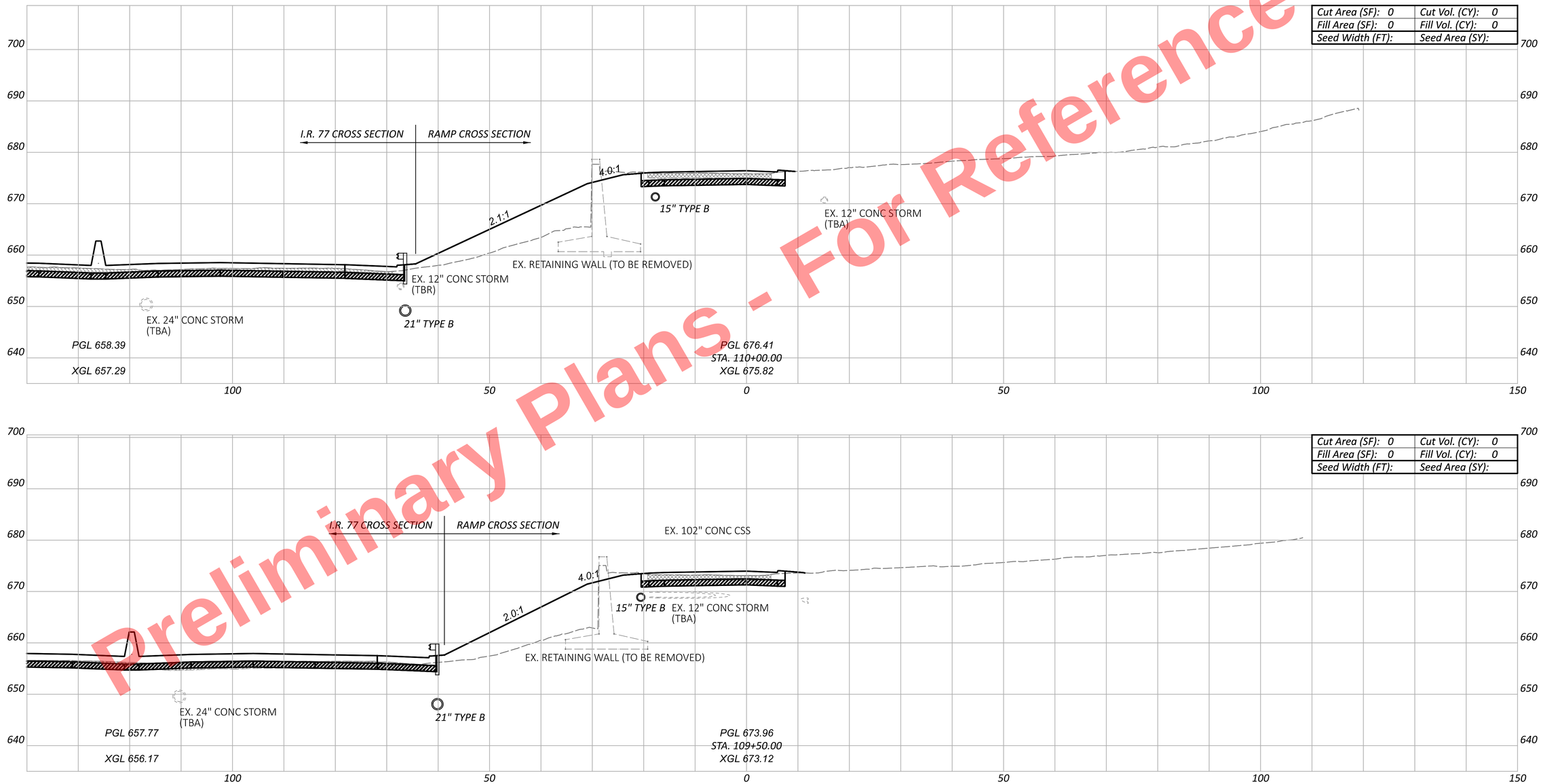
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.508 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP C1
STA. 109+50.00 TOSTA. 110+00.00

DESIGN AGENCY
HNTB

| DESIGNER | REVIEWER | PROJECT ID |
|---|---|---|
| AS | MTR 04/01/22 | 105743 |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.509 | P.1135 |

MODEL: BLP_R743_C1 - 109+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:26:56 AM USER: kperkins
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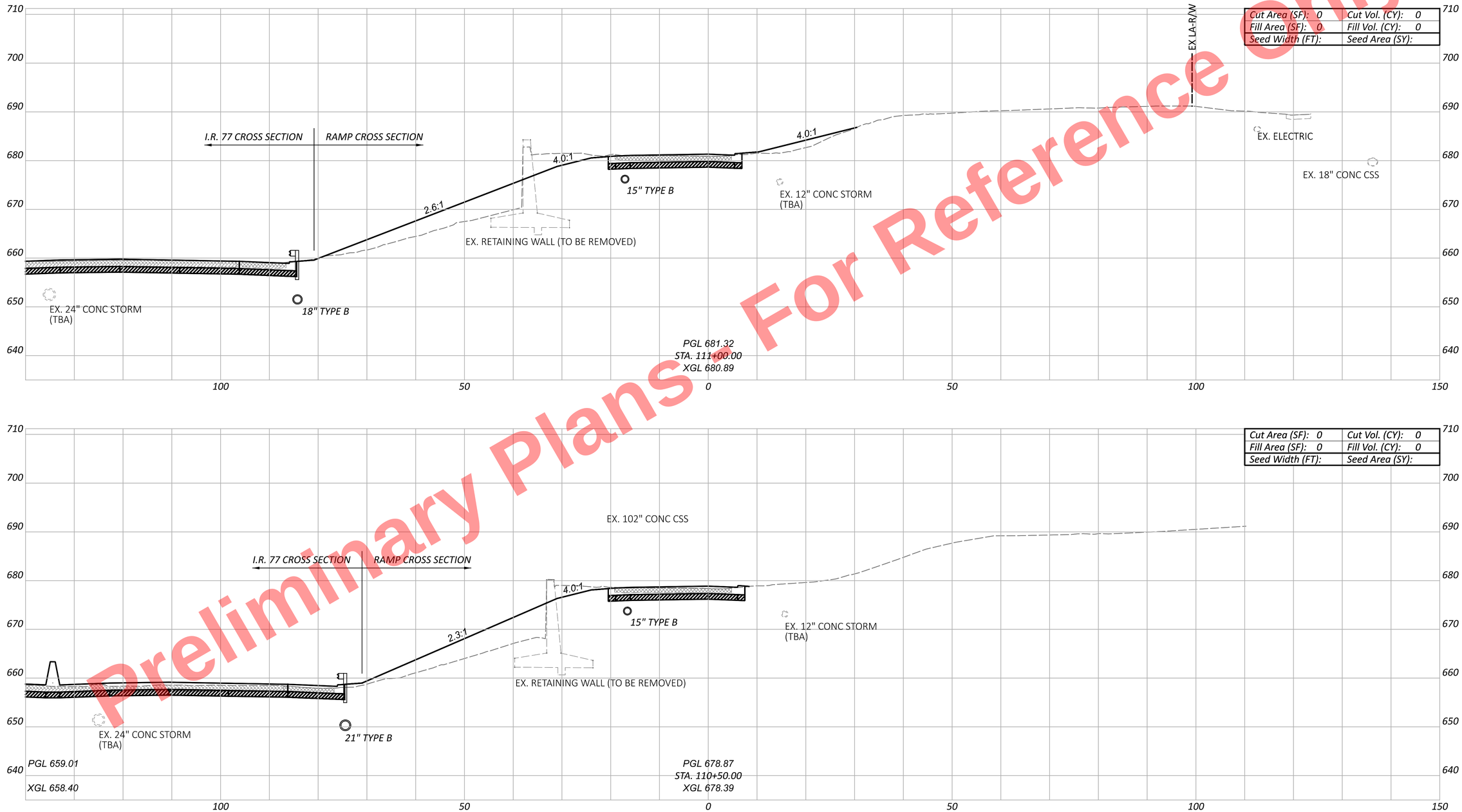


Preliminary Plans - Not for Construction
For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP C1
STA. 110+50.00 TOSTA. 111+00.00

DESIGN AGENCY
HNTB

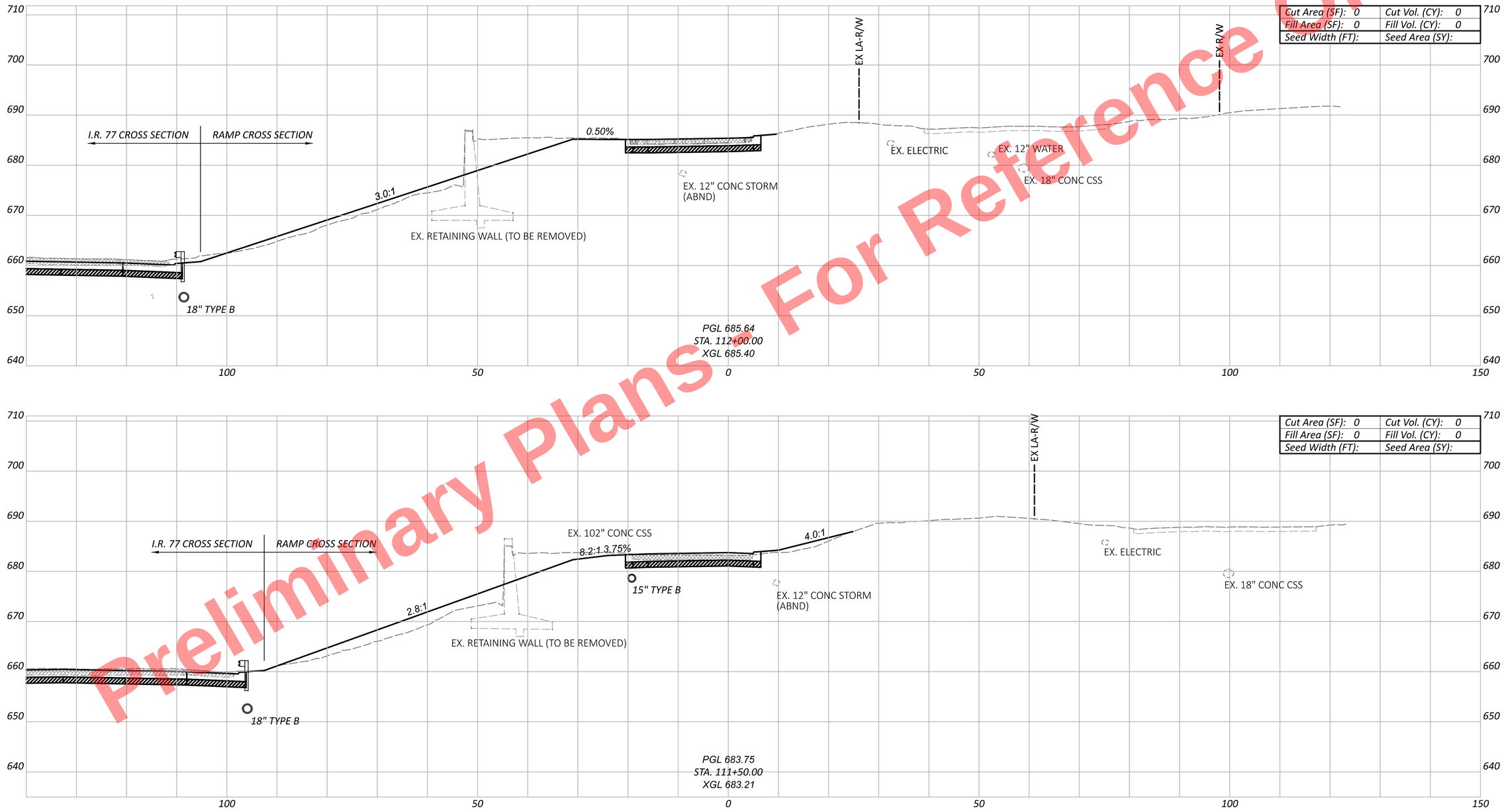
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.510 TOTAL P.1135




Preliminary Plans - Not For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C1 - 111+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:27:02 AM USER: kperkins
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CROSS SECTIONS - RAMP C1
STA. 111+50.00 TO END WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.511 | P.1135 |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C1 - 112+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:27:05 AM USER: kperkins
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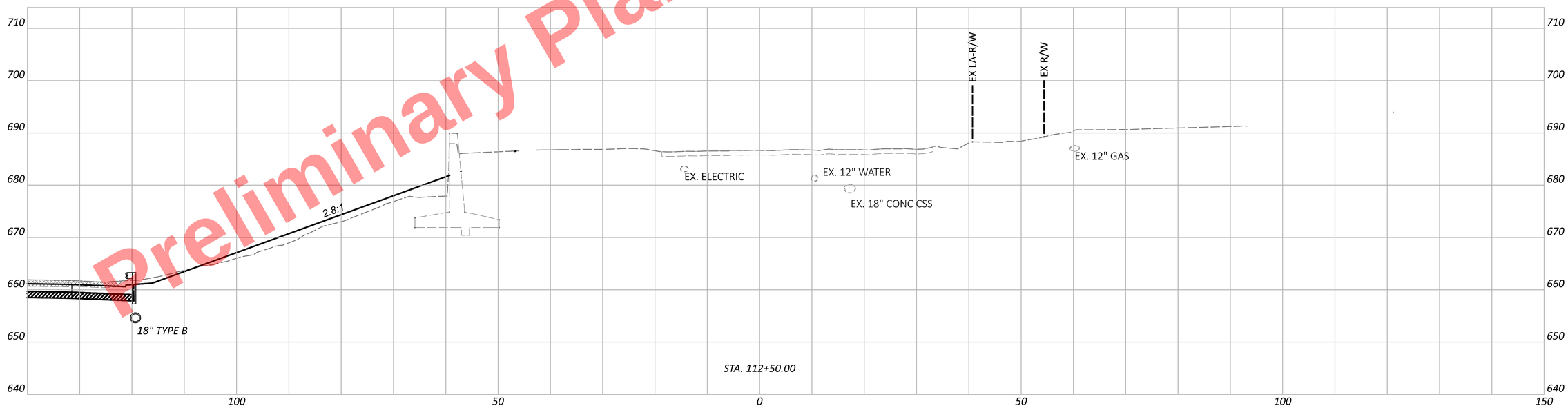


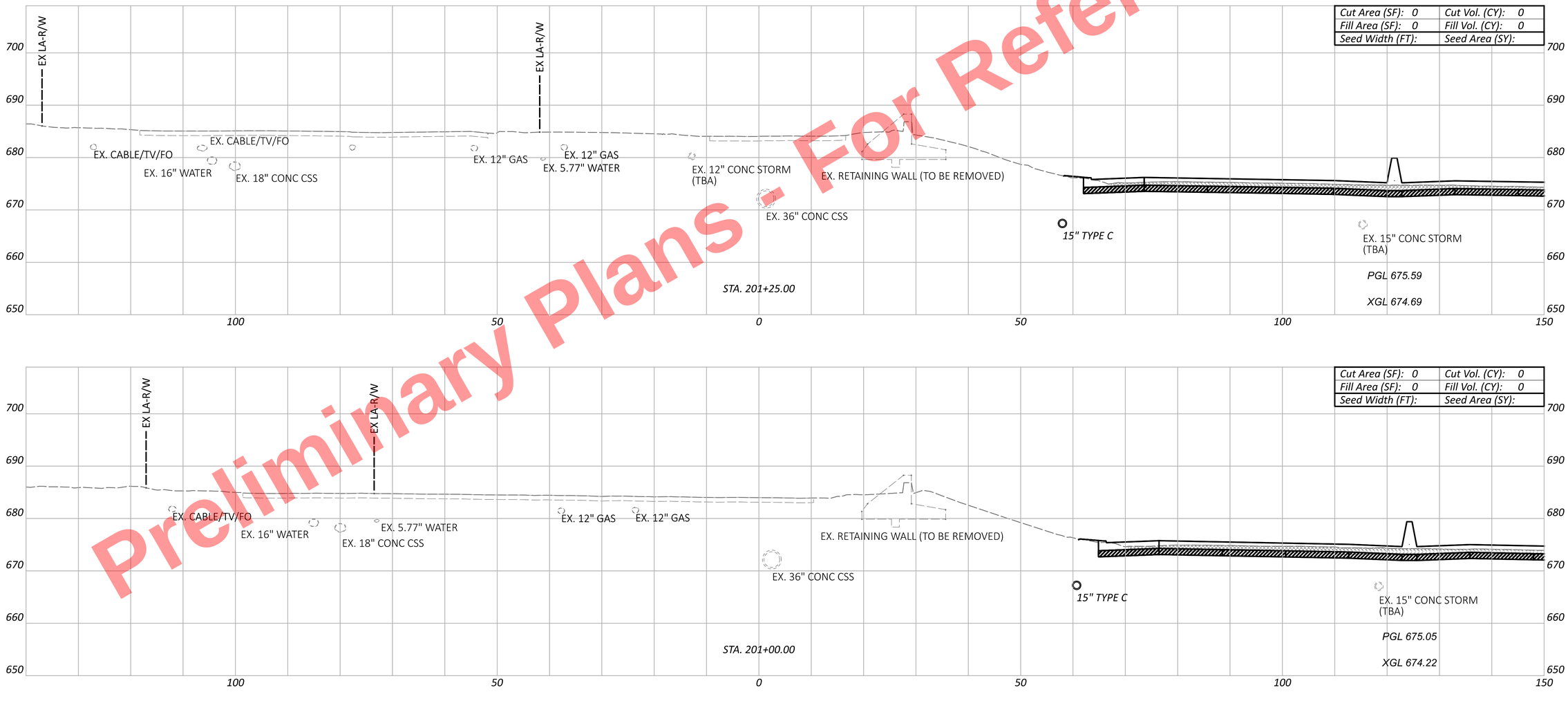

CROSS SECTIONS - RAMP C1
STA. 112+50.00

DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.512 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP C2
STA. 201+00.00 TO STA. 201+25.00

DESIGN AGENCY
HNTB

DESIGNER
AS

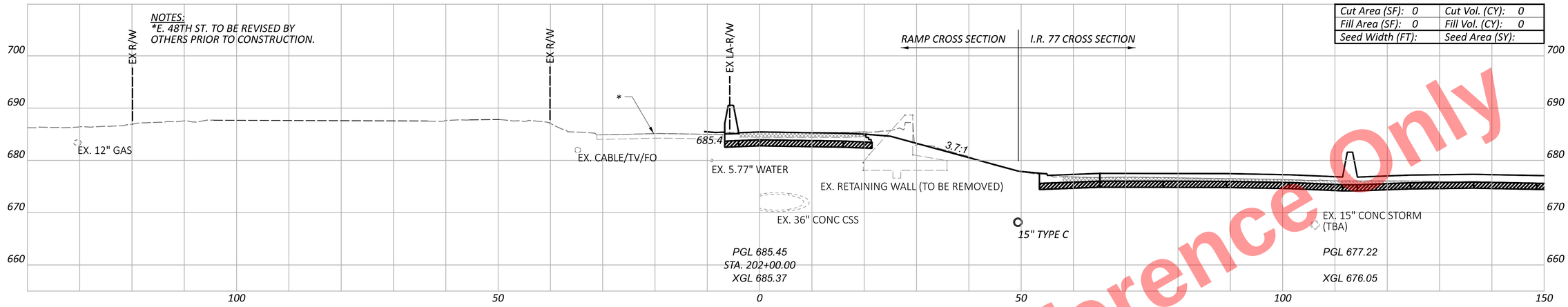
REVIEWER
MTR 04/01/22

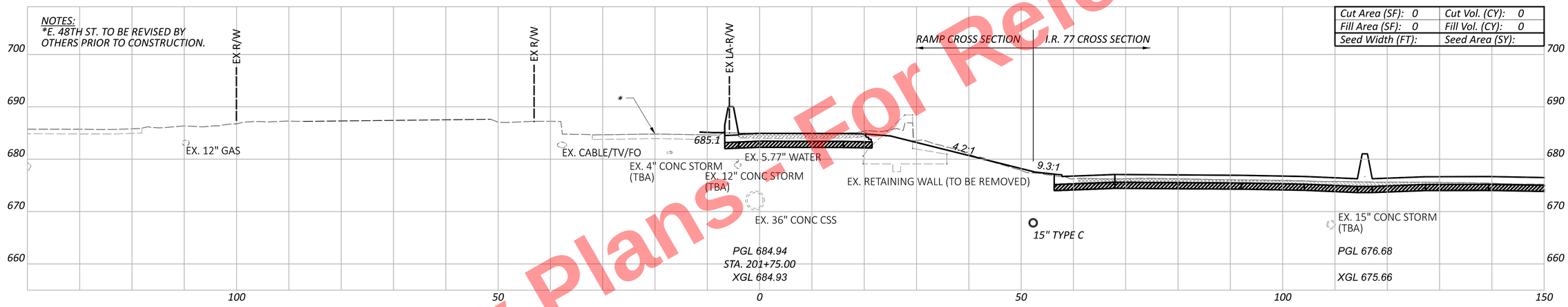
PROJECT ID
105743

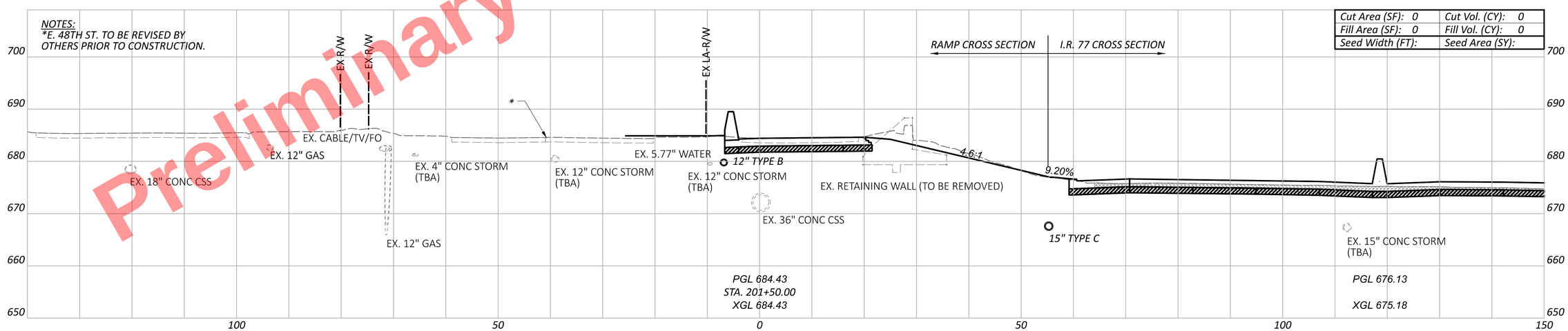
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.513 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP C2
BEGIN WORK TO STA. 202+00.00

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C2 - 201+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:27:10 AM USER: kperkins
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| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

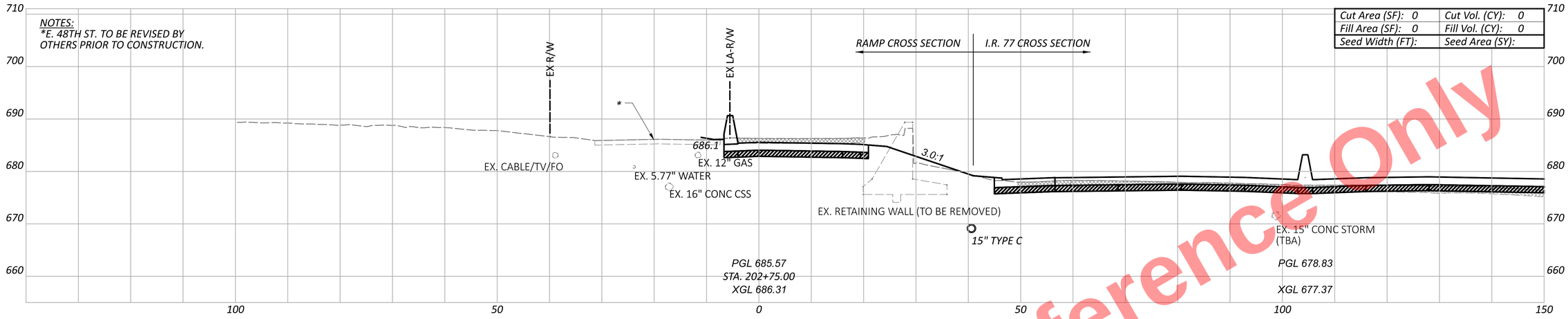
DESIGN AGENCY
HNTB

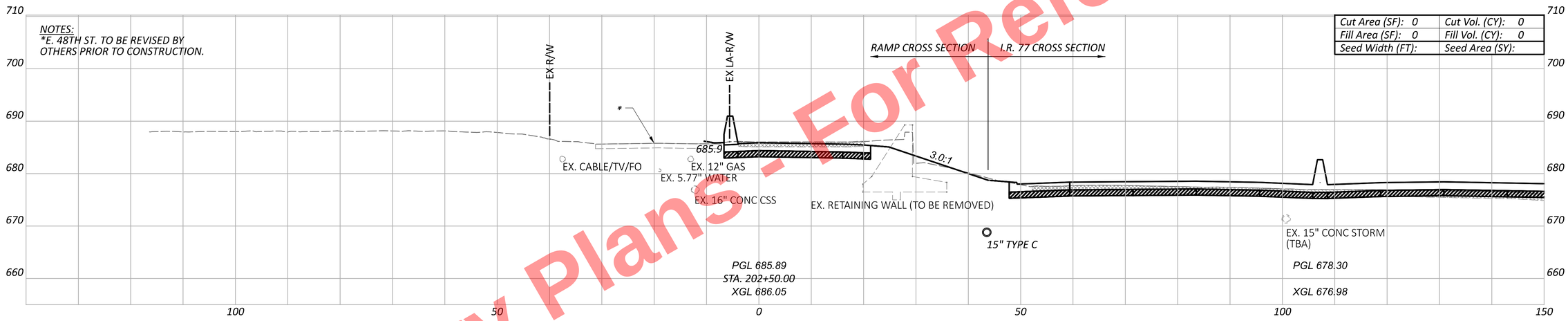
DESIGNER
AS

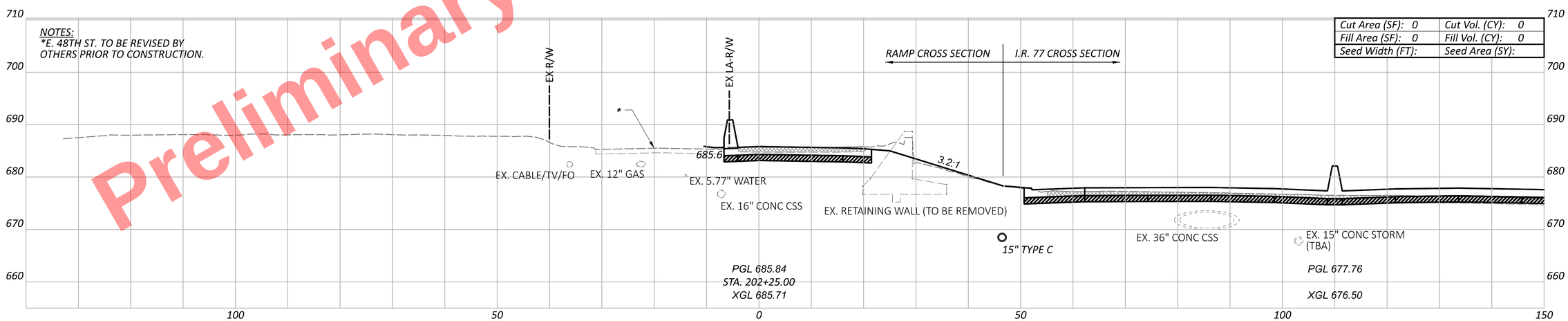
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.514 | TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C2
STA. 202+25.00 TO STA. 202+75.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.515 TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C2 - 202+25.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:27:14 AM USER: kperkins
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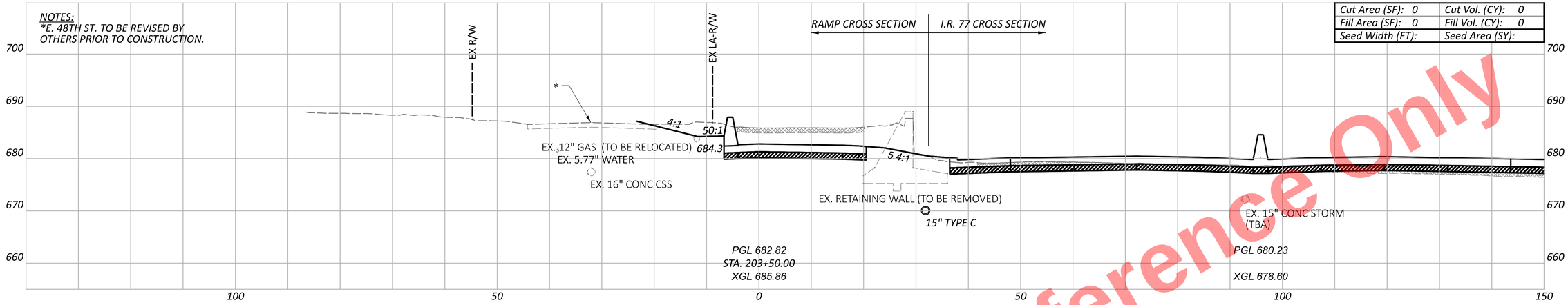


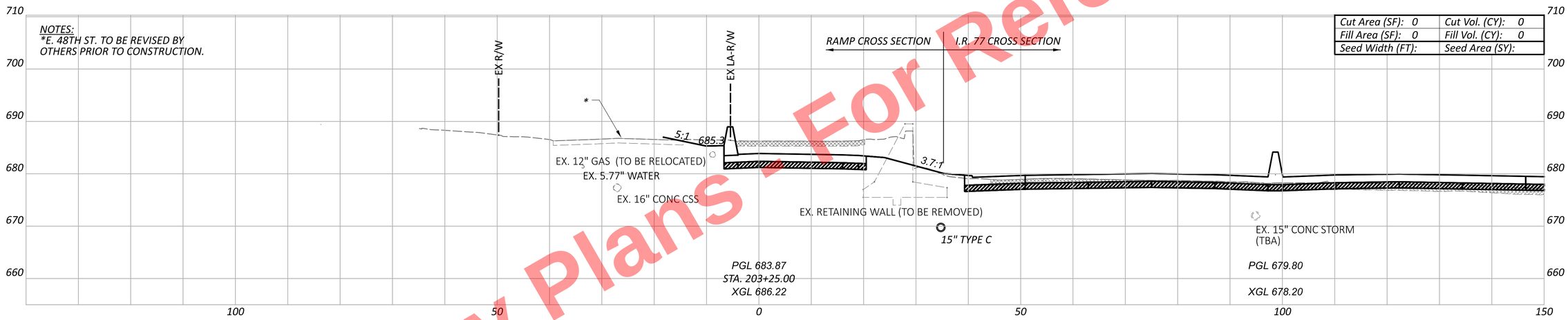


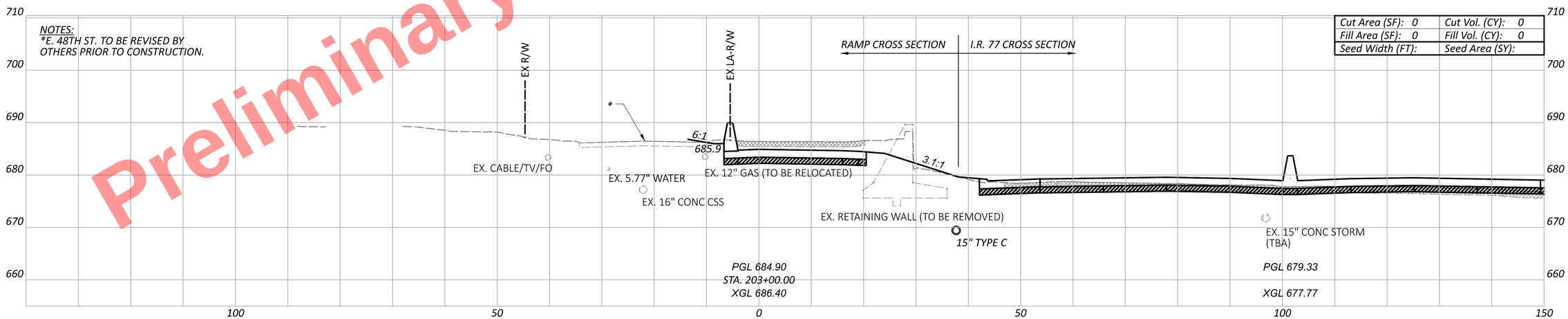


Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C2
STA. 203+00.00 TO STA. 203+50.00

CUY-77-11.43 - PART 1

MODEL: BLP_R743_C2 - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:27:18 AM USER: kperkins
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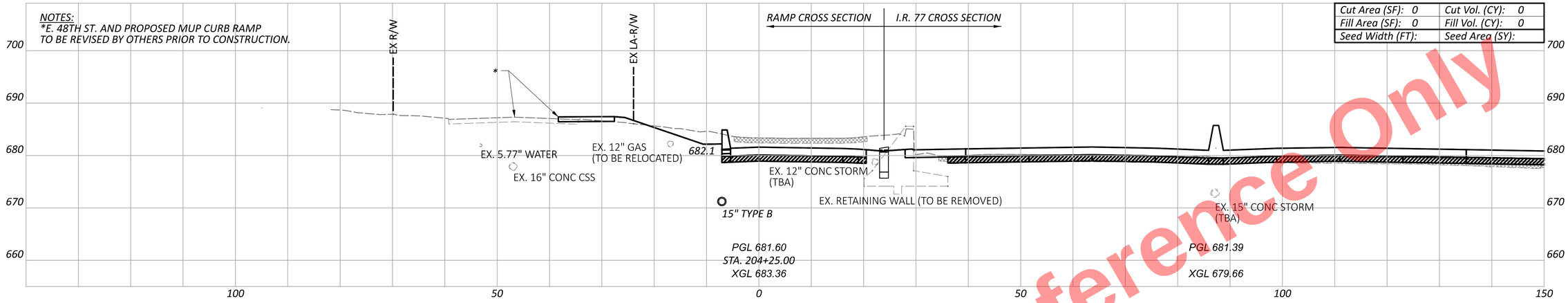
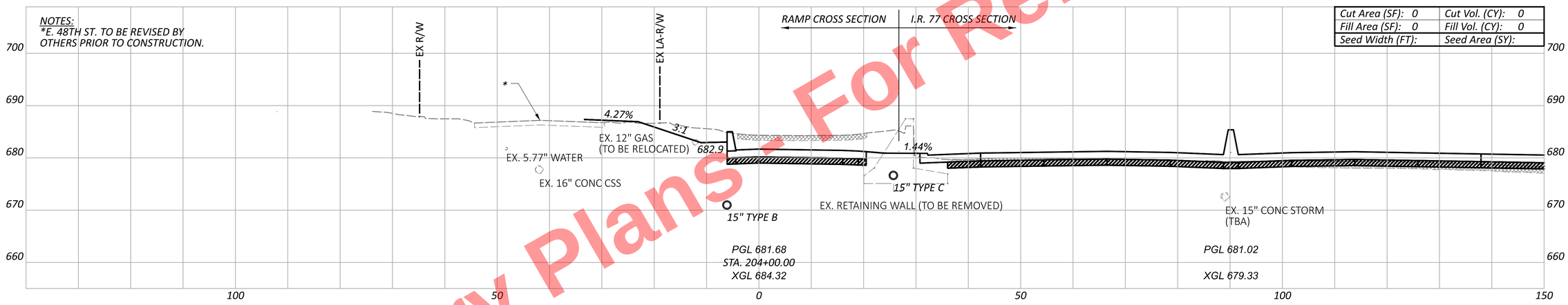
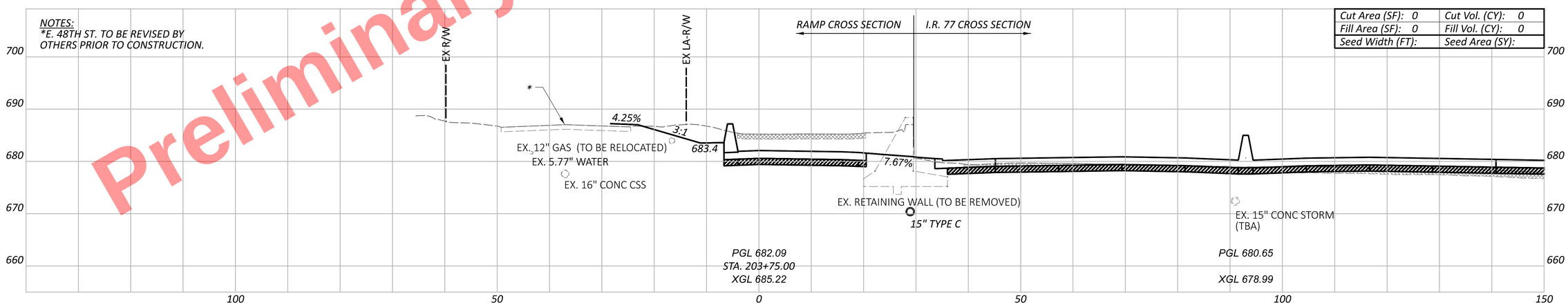
DESIGN AGENCY
HNTB

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.516 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP C2
STA. 203+75.00 TO STA. 204+25.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.517 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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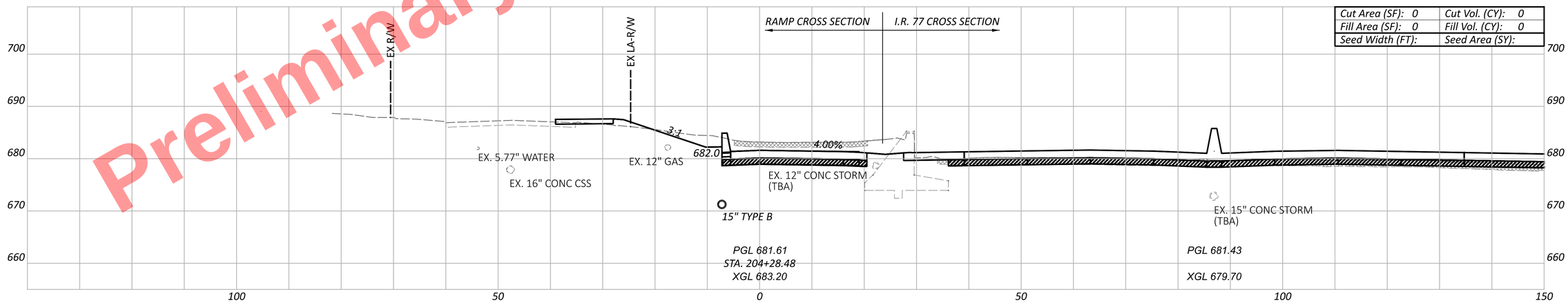


CROSS SECTIONS - RAMP C2
PHYSICAL GORE

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.518 TOTAL P.1135

Preliminary Plans - For Reference Only

I.R. 77 CROSS SECTION | RAMP CROSS SECTION

| | |
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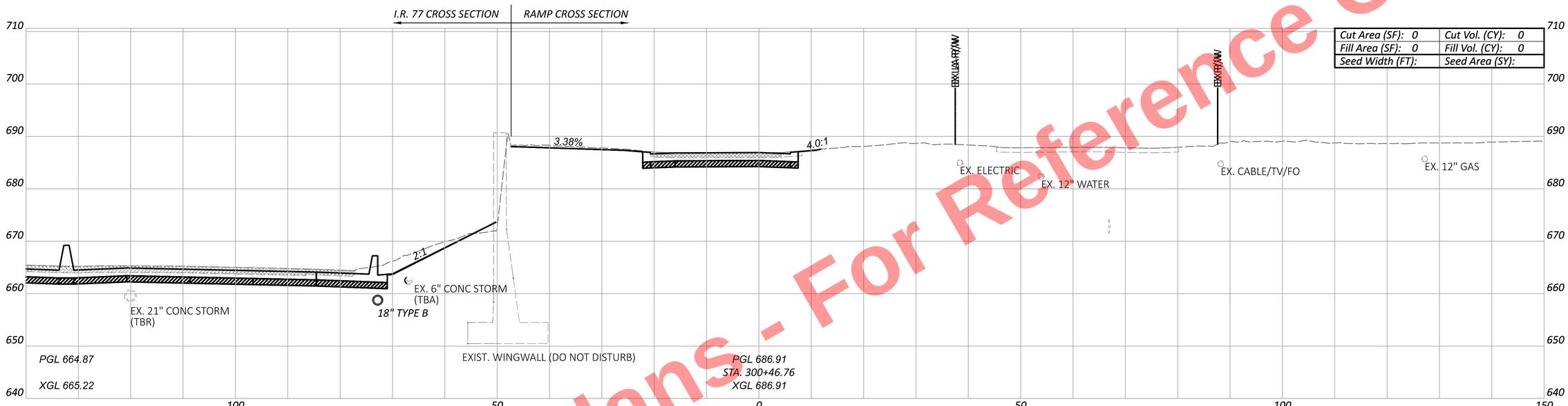
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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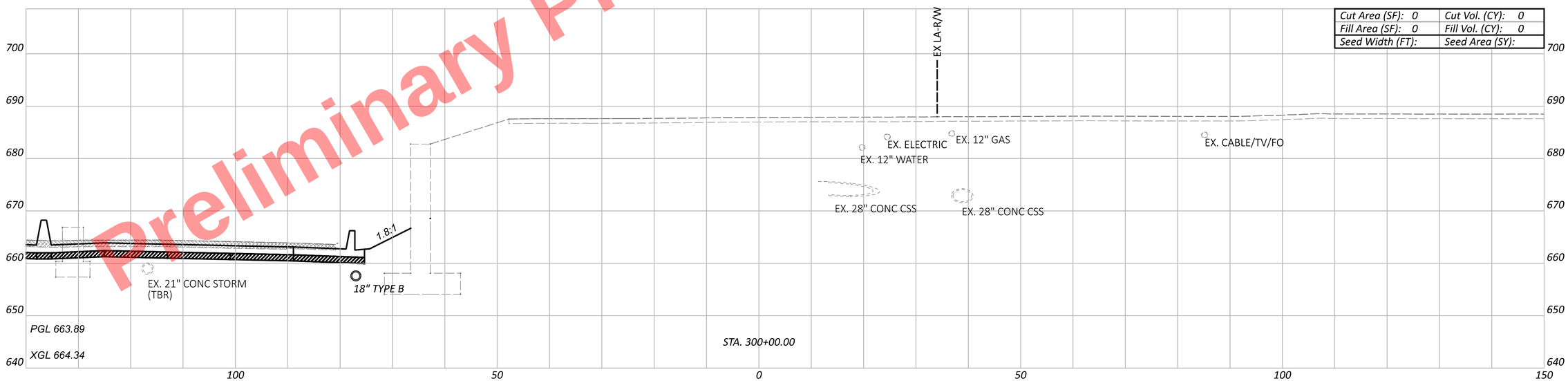
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - RAMP C3
STA. 300+00.00 TO BEGIN WORK

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.519 | TOTAL P.1135

CUY-77-11.43 - PART 1

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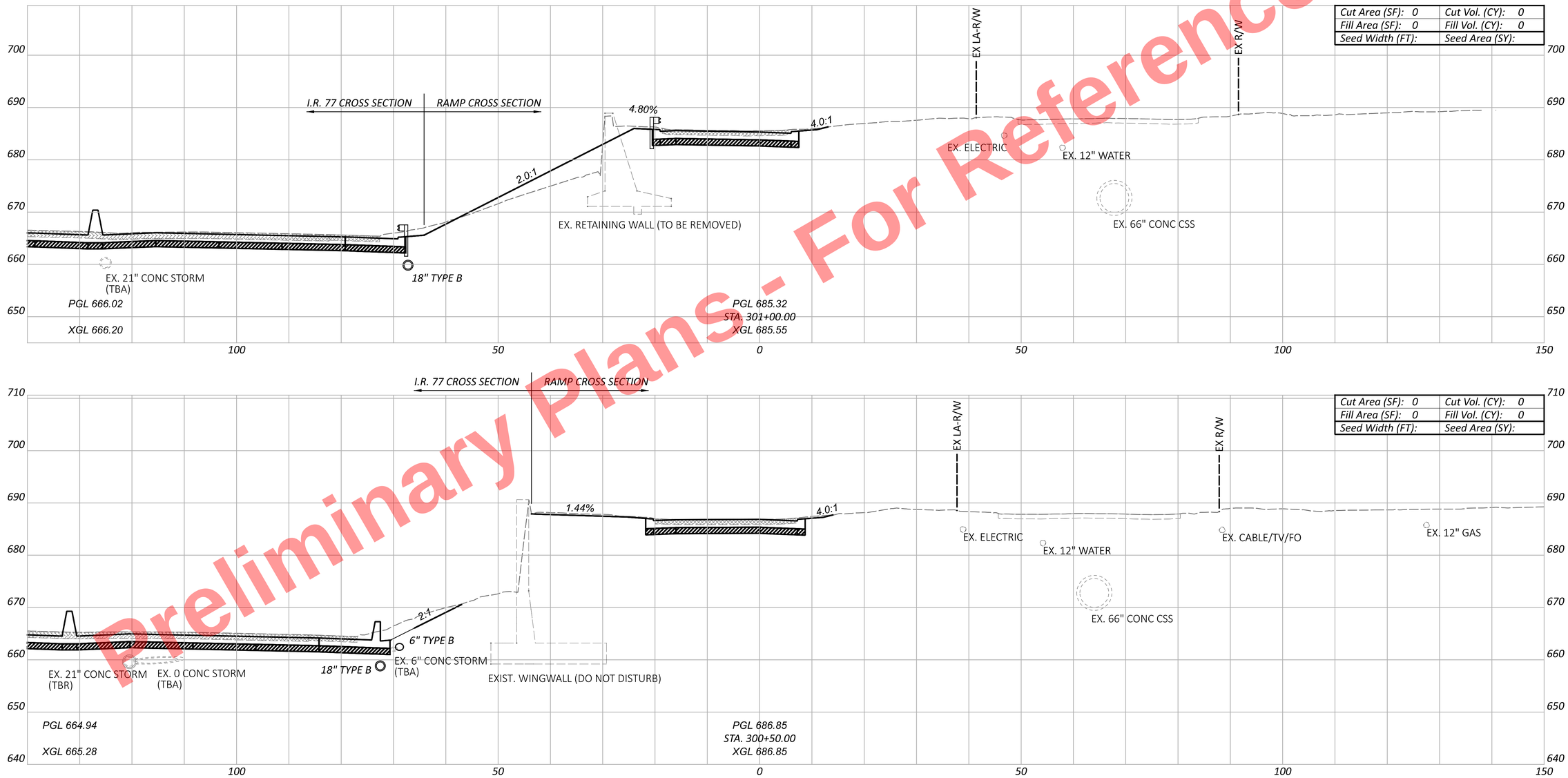
Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP C3
STA. 300+50.00 TO STA. 301+00.00

| | |
|---|---|
| DESIGN AGENCY | HNTB |
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.520 |
| TOTAL | P.1135 |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

CUY-77-11.43 - PART 1

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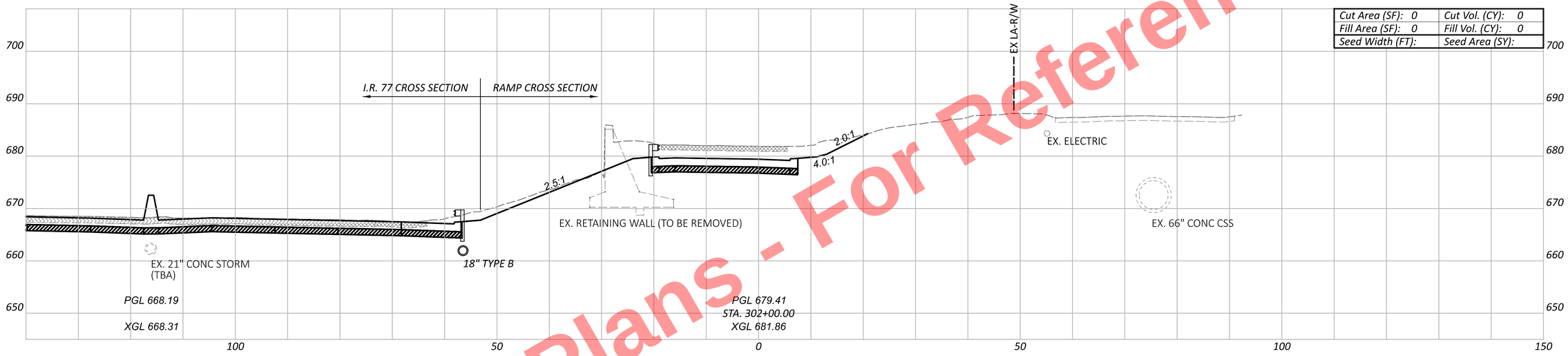
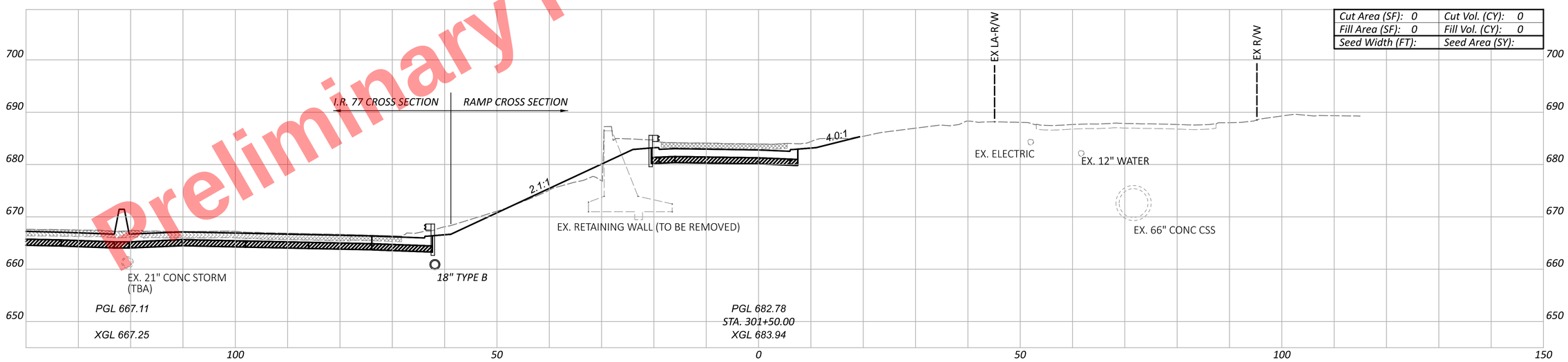
Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - RAMP C3
STA. 301+50.00 TO STA. 302+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.521 TOTAL P.1135

CUY-77-11.43 - PART 1

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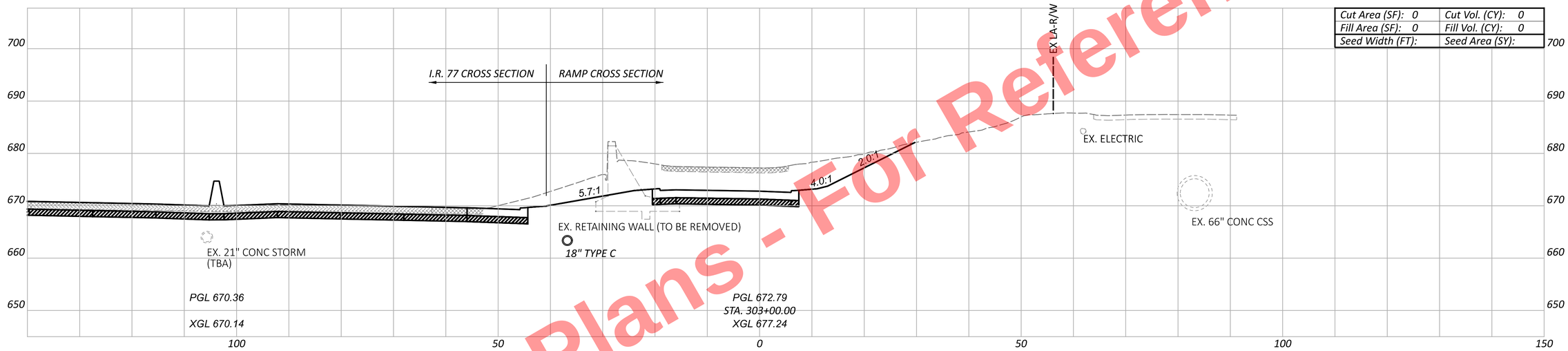
Preliminary Plans - For Reference Only




| | |
|---|---|
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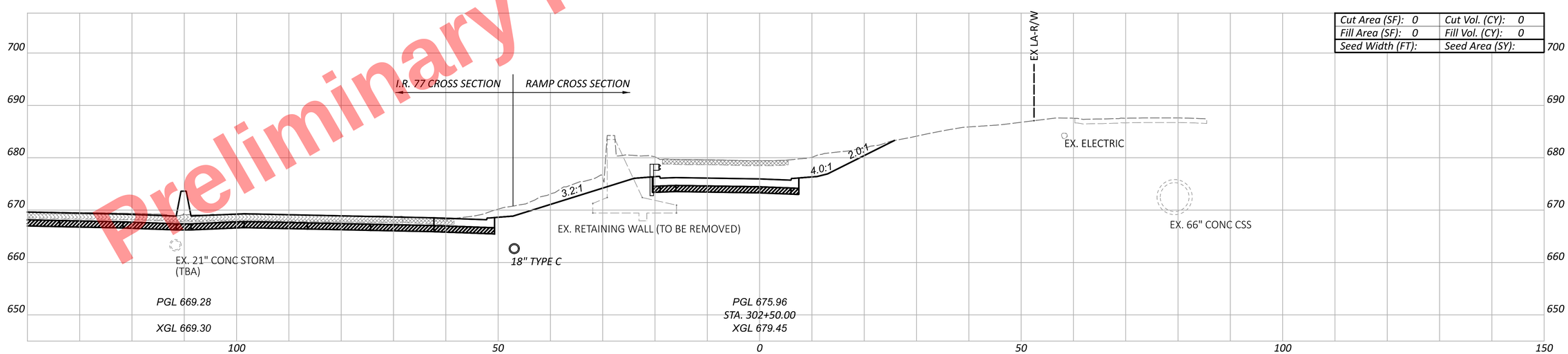
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP C3
STA. 302+50.00 TO STA. 303+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

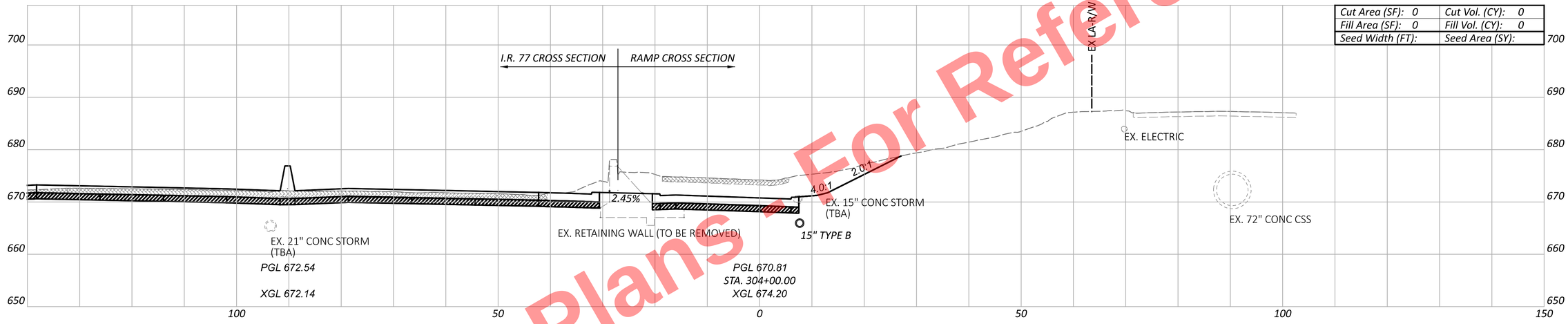
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.522 TOTAL P.1135

Preliminary Plans - For Reference Only




| | |
|---|---|
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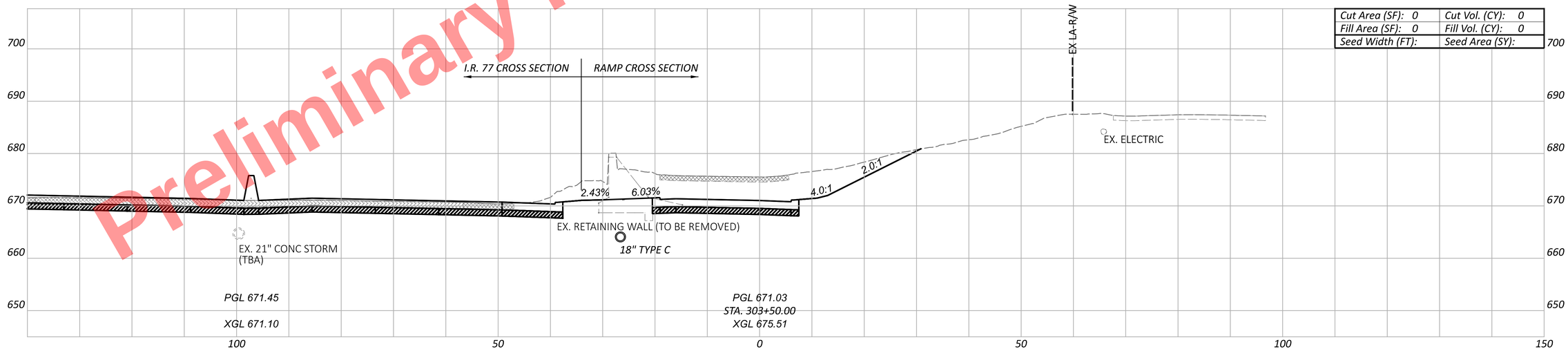
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP C3
STA. 303+50.00 TO STA. 304+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.523 | P.1135 |

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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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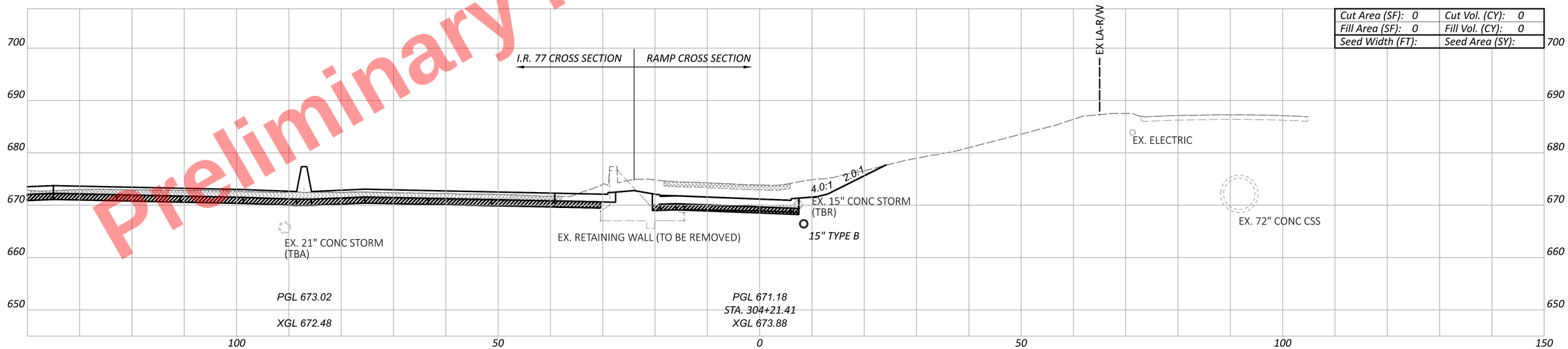
# CROSS SECTIONS - RAMP C3
## END WORK




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

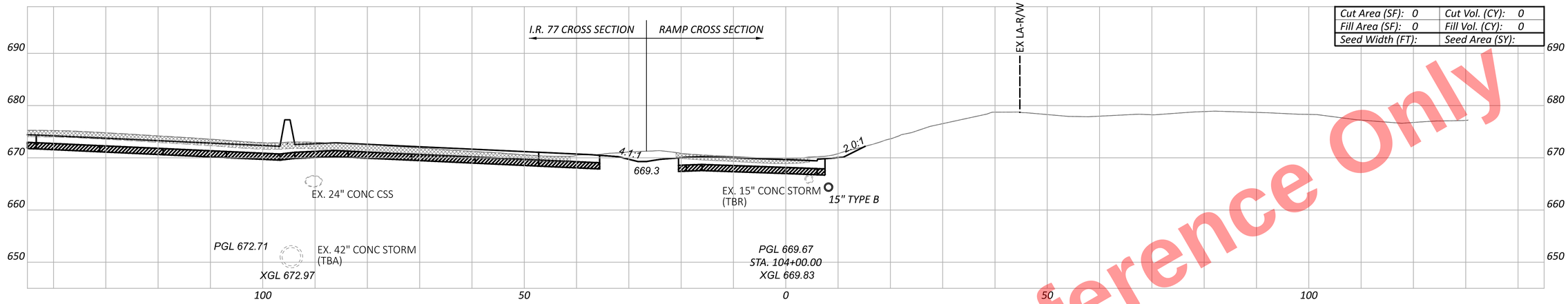
DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.524 TOTAL P.1135




| | |
|---|---|
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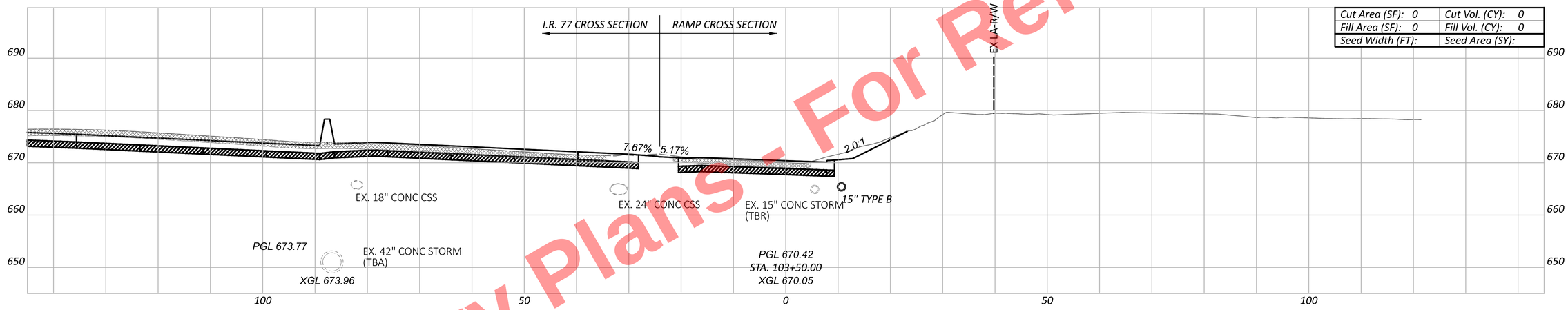
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

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|---|---|
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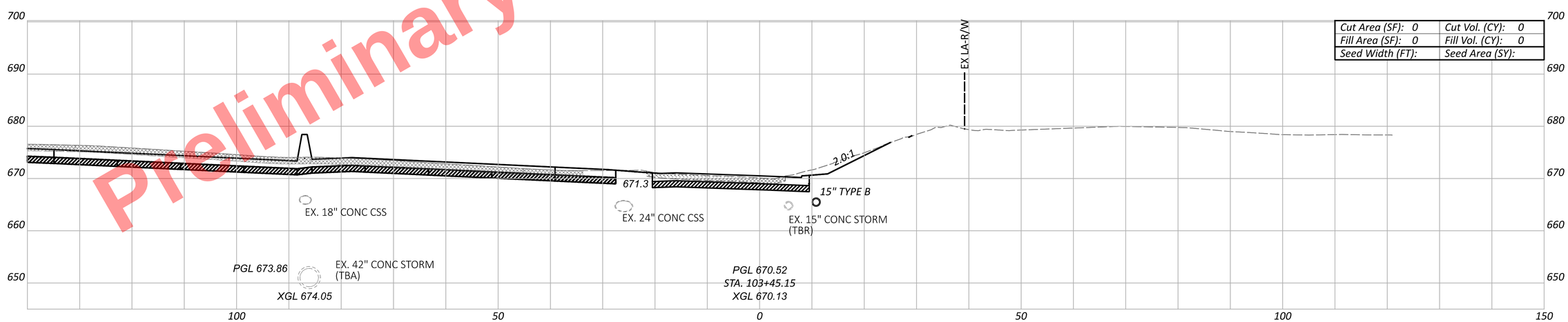
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D1
PHYSICAL GORE TO STA. 104+00.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

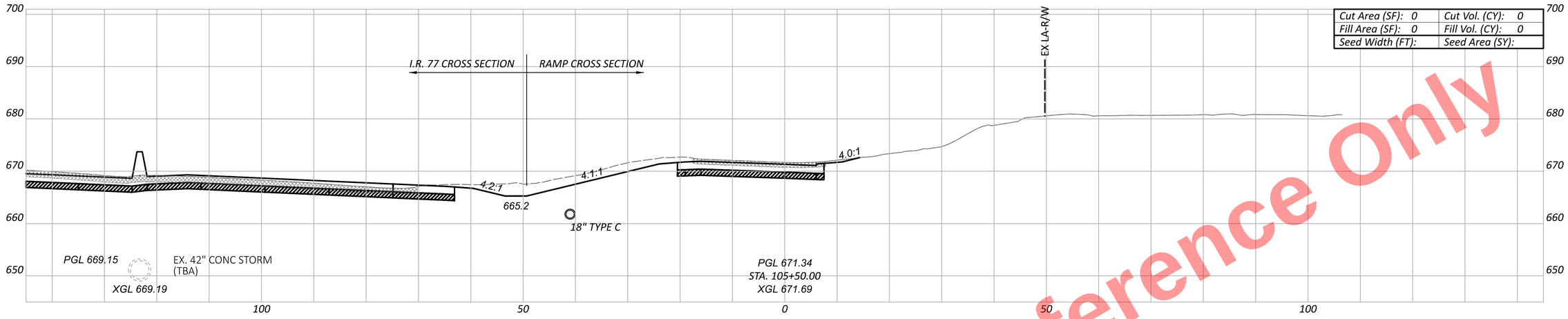
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

| SHEET | TOTAL |
|---|---|
| P.525 | P.1135 |




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
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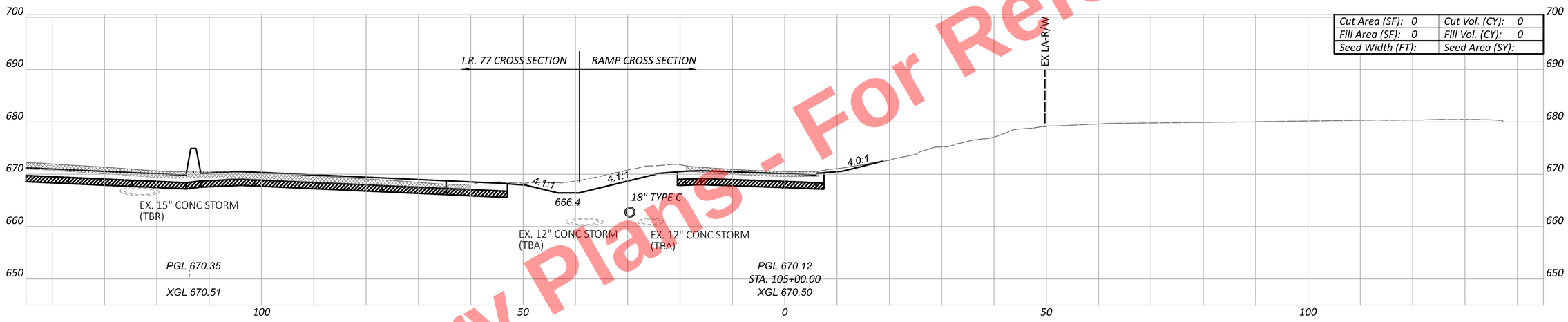


| | |
|---|---|
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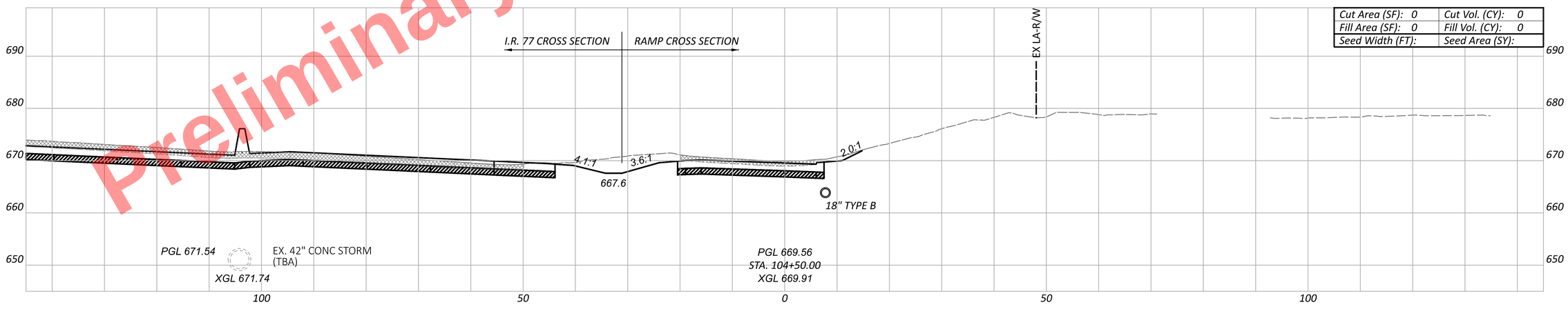
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP D1
STA. 104+50.00 TO STA. 105+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.526 | TOTAL P.1135

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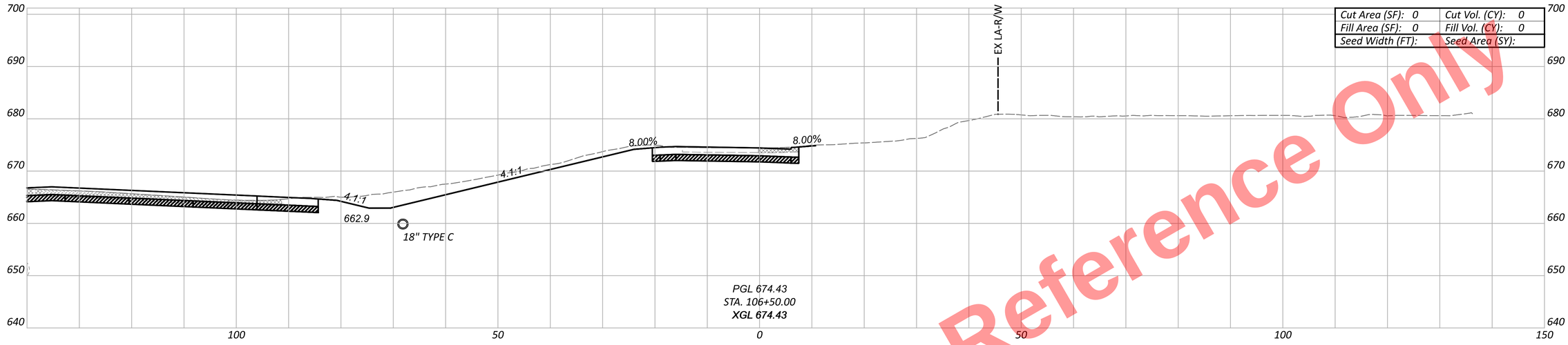


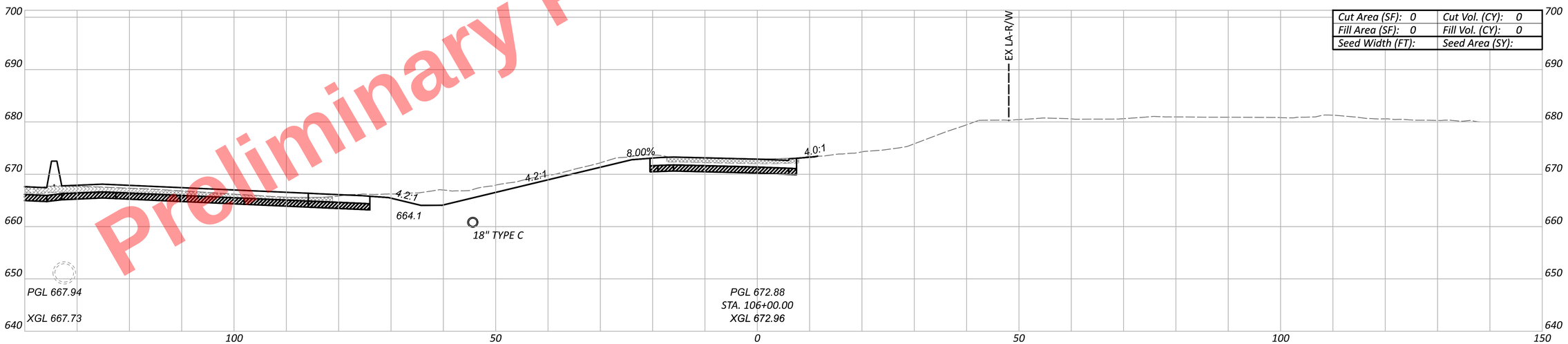


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

CROSS SECTIONS - RAMP D1
STA. 106+00.00 TO END WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.527 TOTAL P.1135

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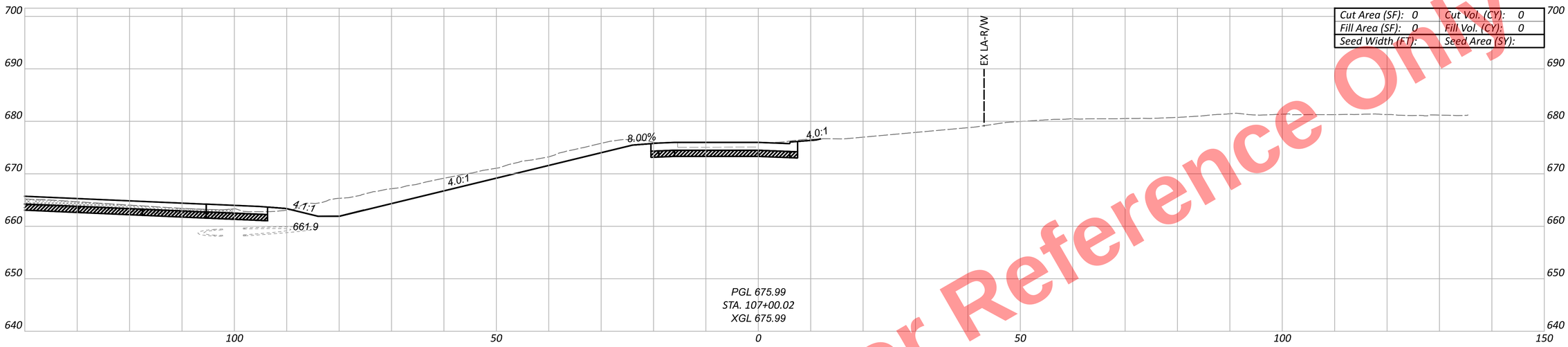


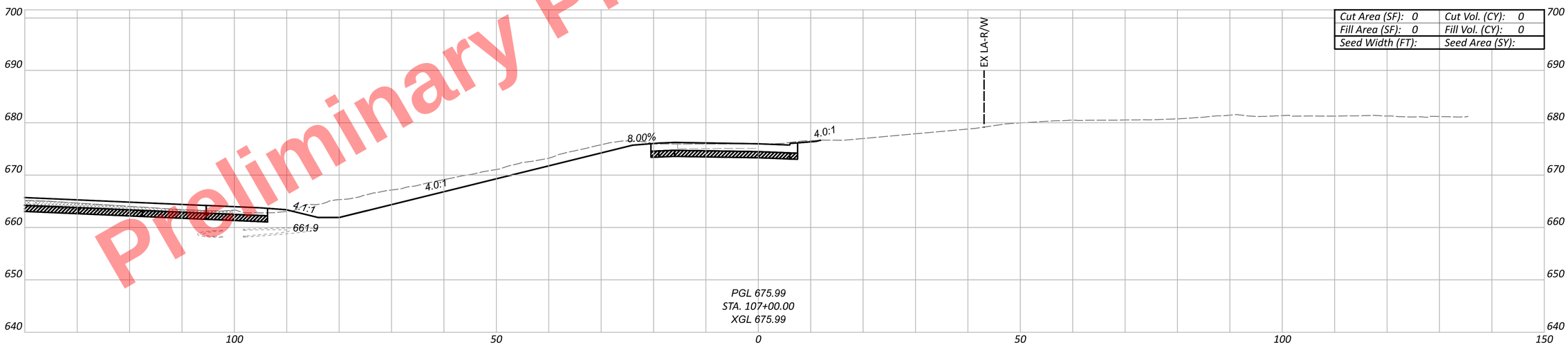


Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP D1
STA. 107+00.00

DESIGN AGENCY
HNTB

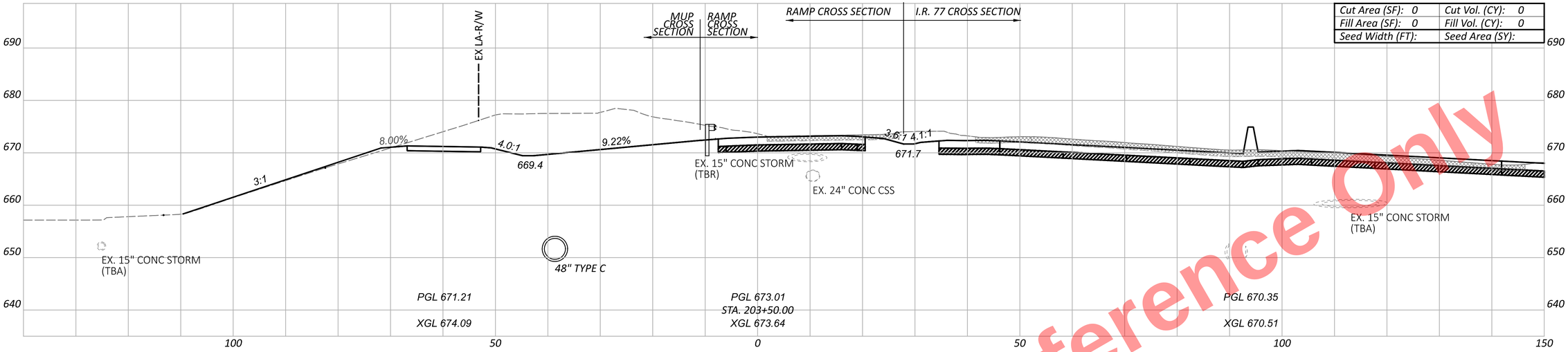
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.528 | TOTAL P.1135




| | |
|---|---|
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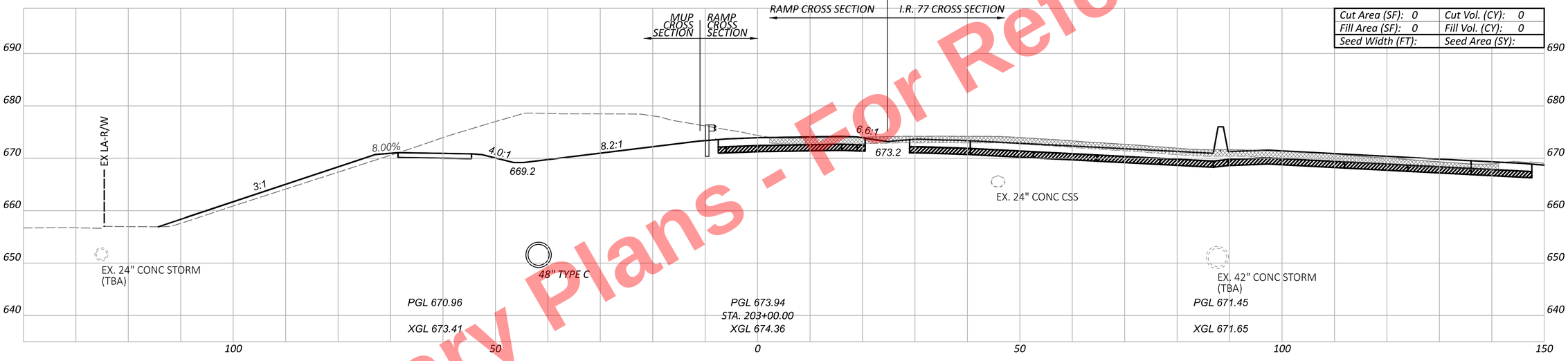
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

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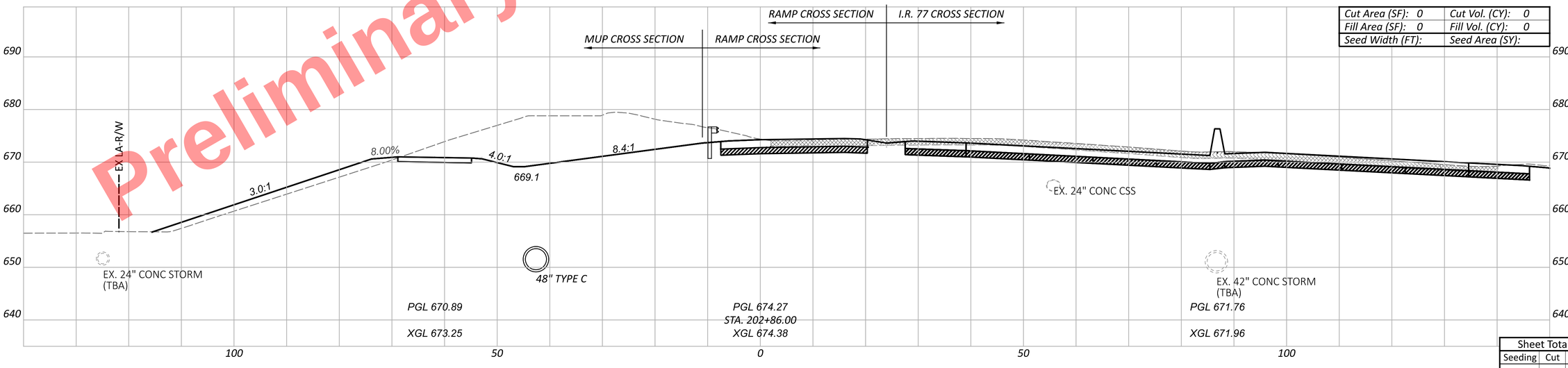
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D2
STA. 203+00.00 TO STA. 203+50.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
AS

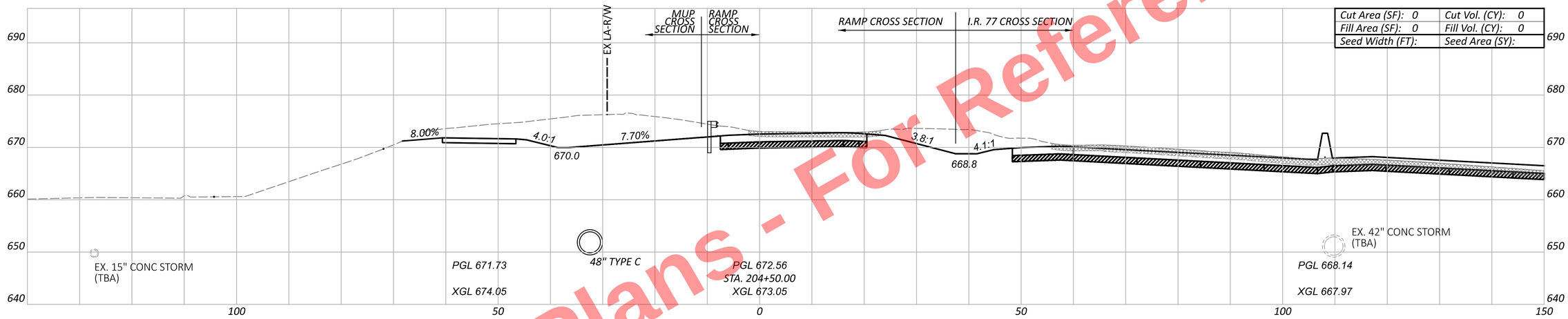
REVIEWER
MTR 04/01/22

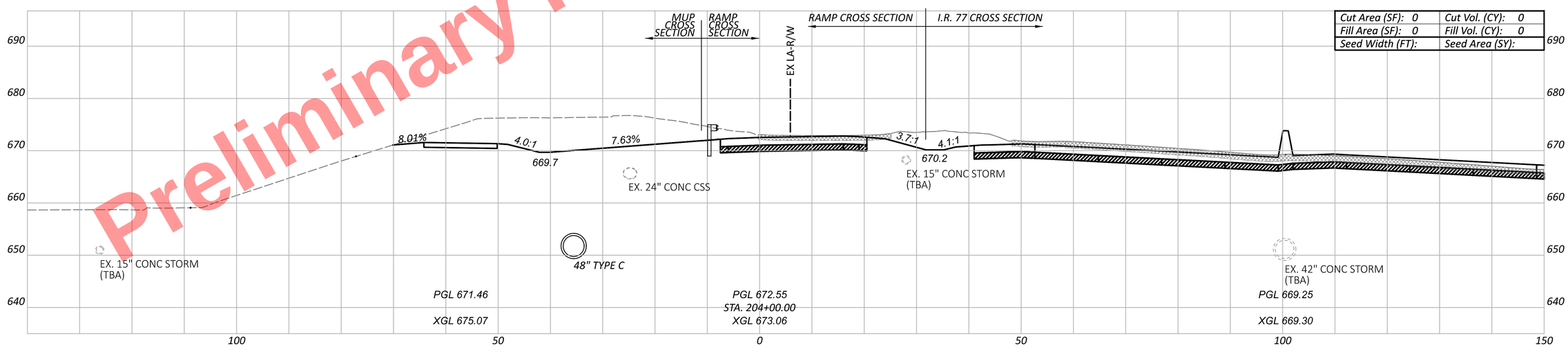
PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.529 | P.1135 |

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP D2
STA. 204+00.00 TO STA. 204+50.00

CUY-77-11.43 - PART 1

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.530 TOTAL P.1135

MODEL: BLP_R329_D2 - 204+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:28:25 AM USER: kperkins
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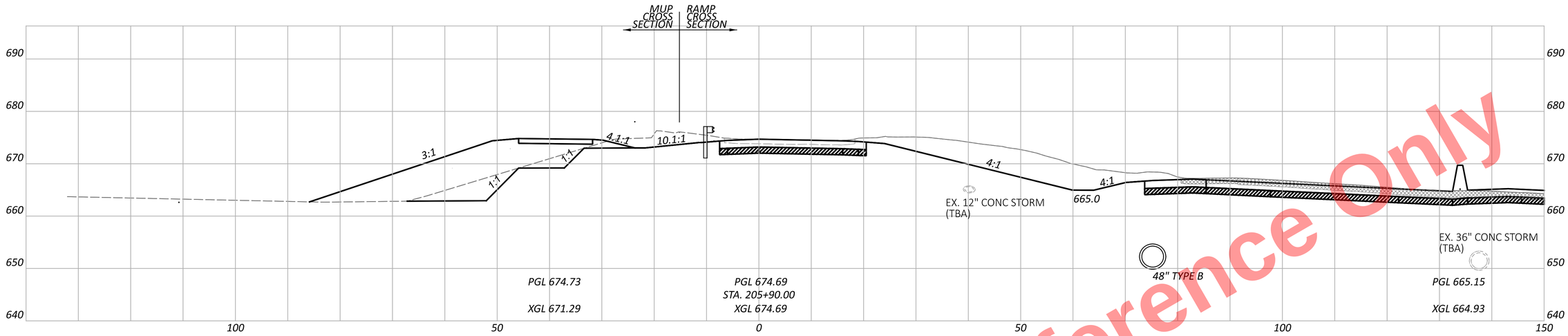


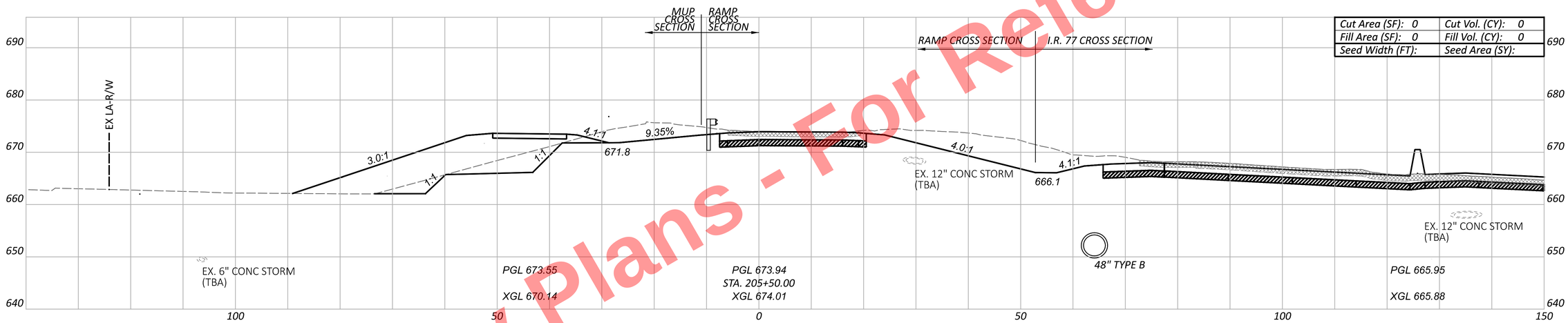


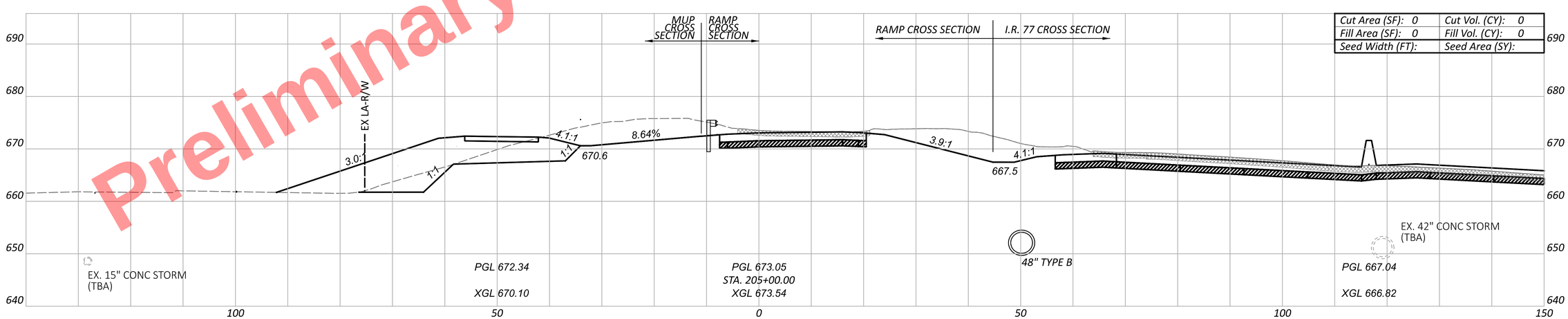


Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D2
STA. 205+00.00 TO END WORK

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
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DESIGNER AS

REVIEWER MTR 04/01/22

PROJECT ID 105743

SHEET P.531 TOTAL P.1135

CUY-77-11.43 - PART 1

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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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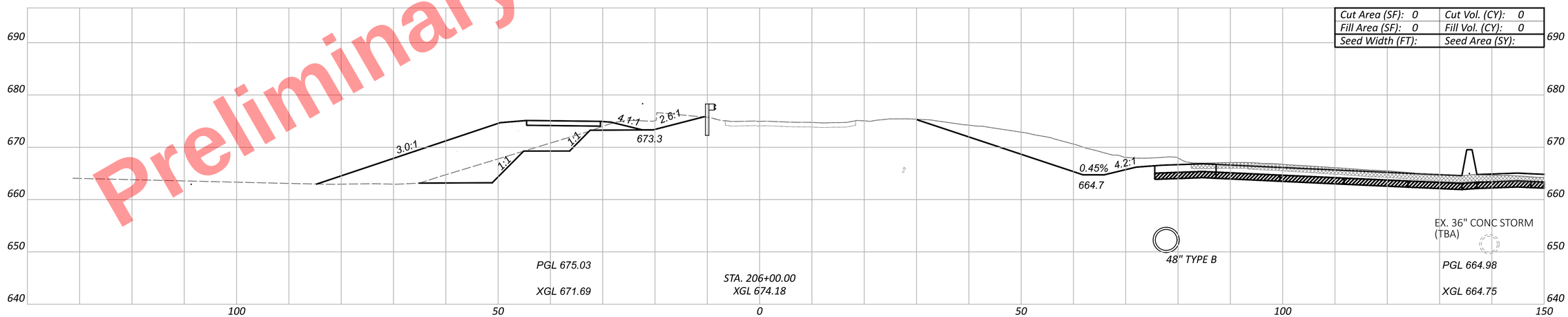
# CROSS SECTIONS - RAMP D2
## STA. 206+00.00




| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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DESIGN AGENCY
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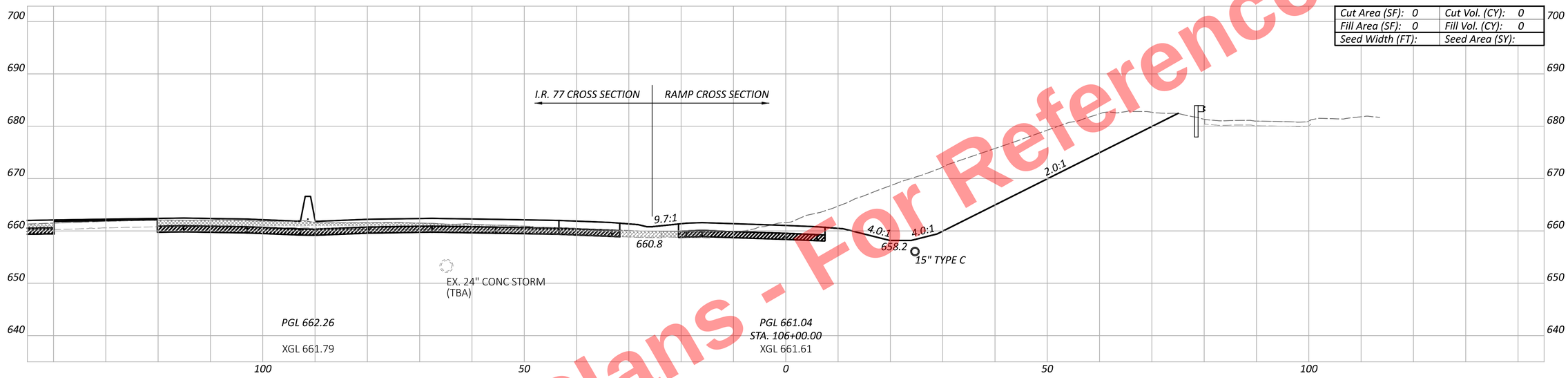
| DESIGNER | AS |
| REVIEWER | MTR 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.532 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




| | |
|---|---|
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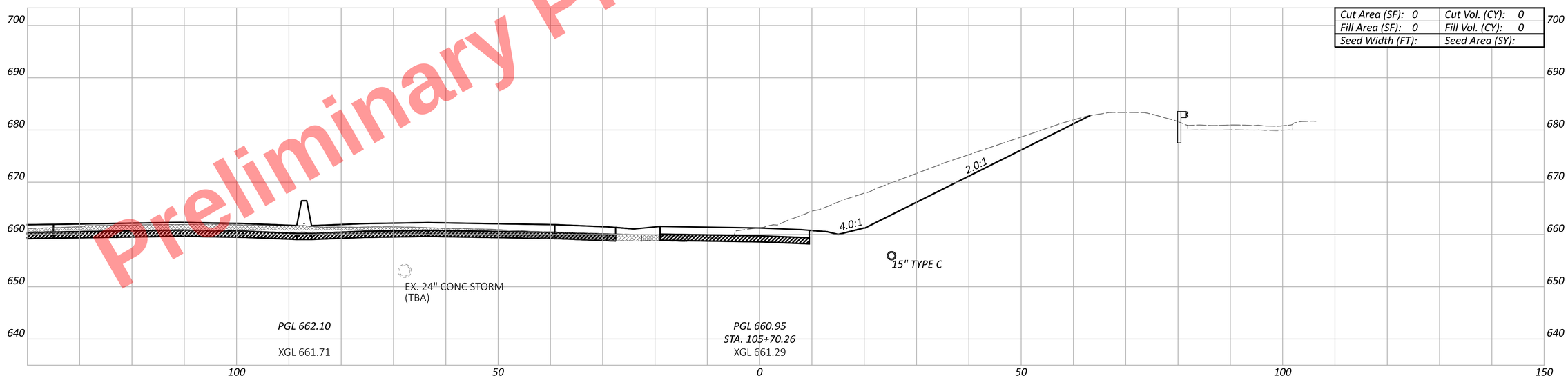
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP E1
## PHYSICAL GORE TO STA. 106+00.00

DESIGN AGENCY
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DESIGNER
AS

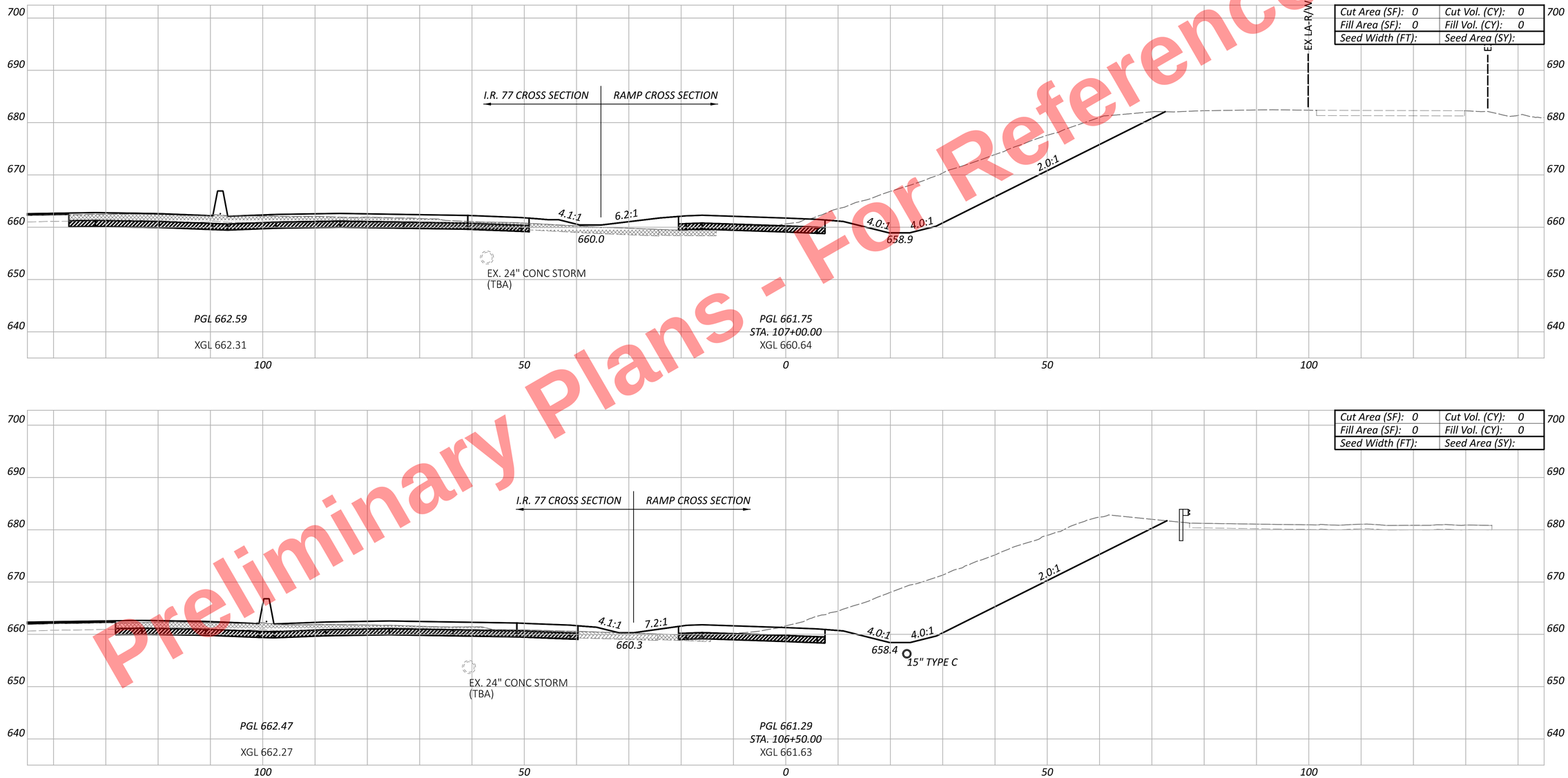
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.533 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP E1
# STA. 106+50.00 TO STA. 107+00.00

DESIGN AGENCY
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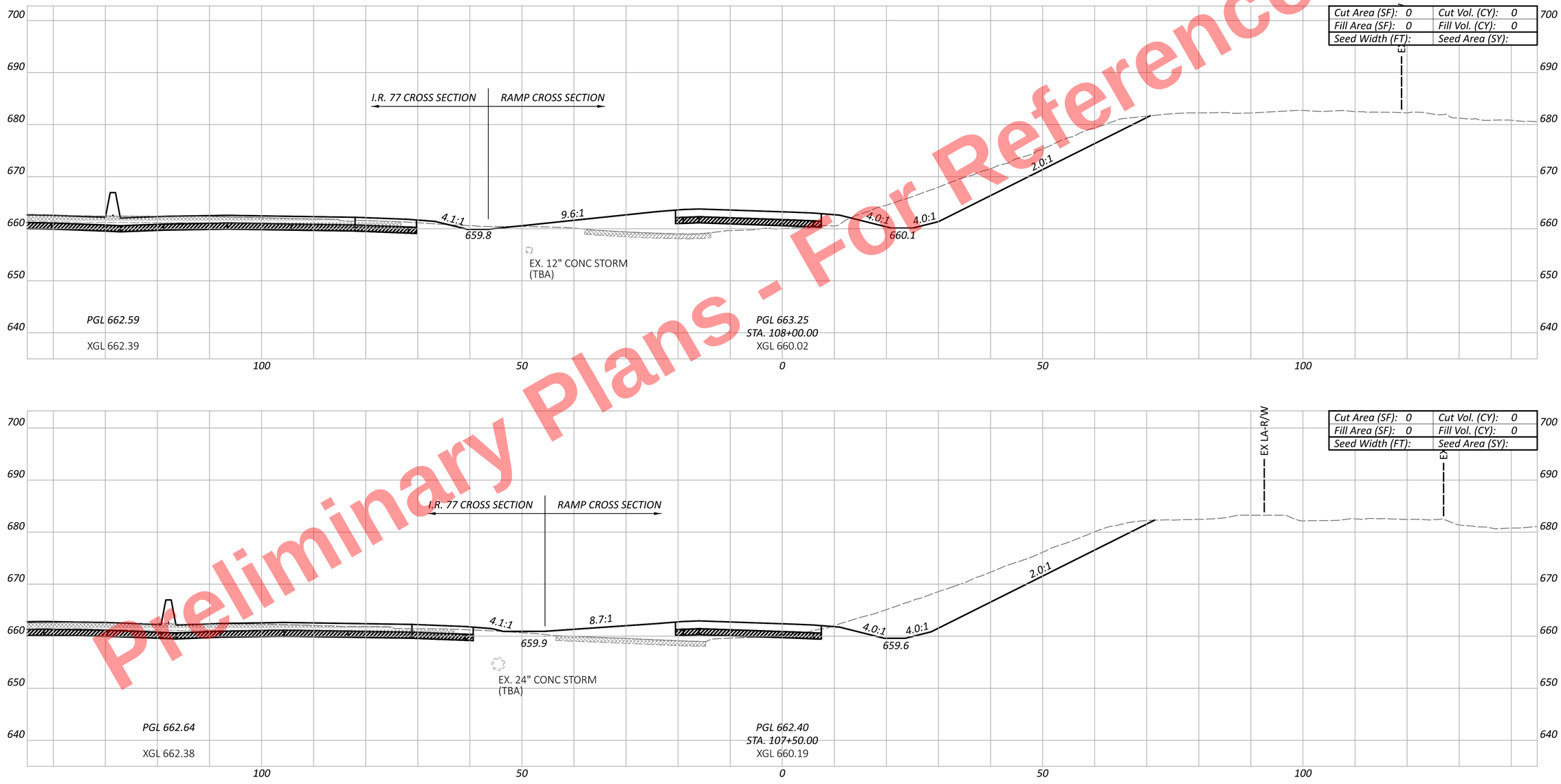
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.534 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP E1
STA. 107+50.00 TO STA. 108+00.00

DESIGN AGENCY
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DESIGNER
AS

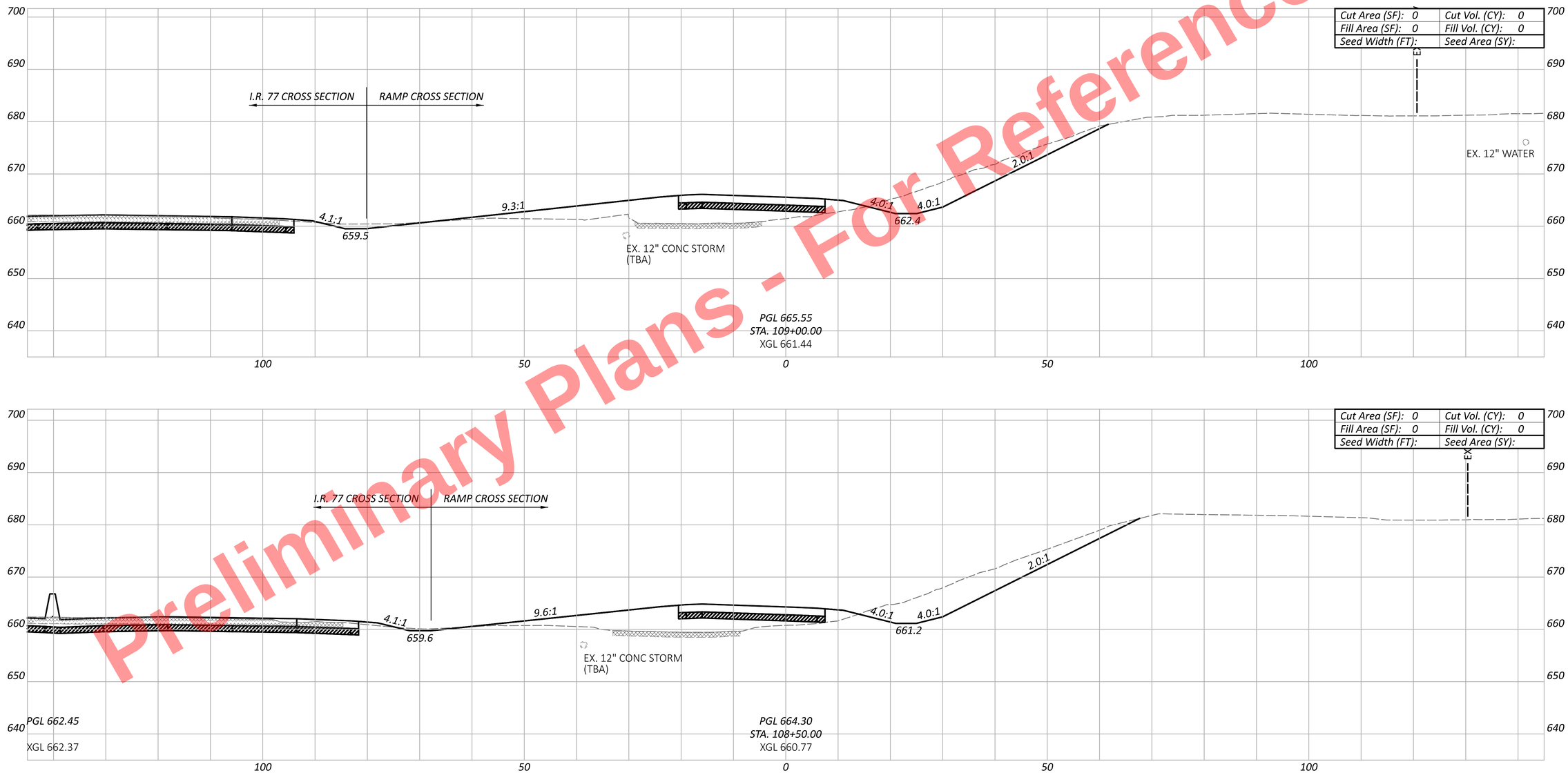
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.535 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP E1
# STA. 108+50.00 TO STA. 109+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
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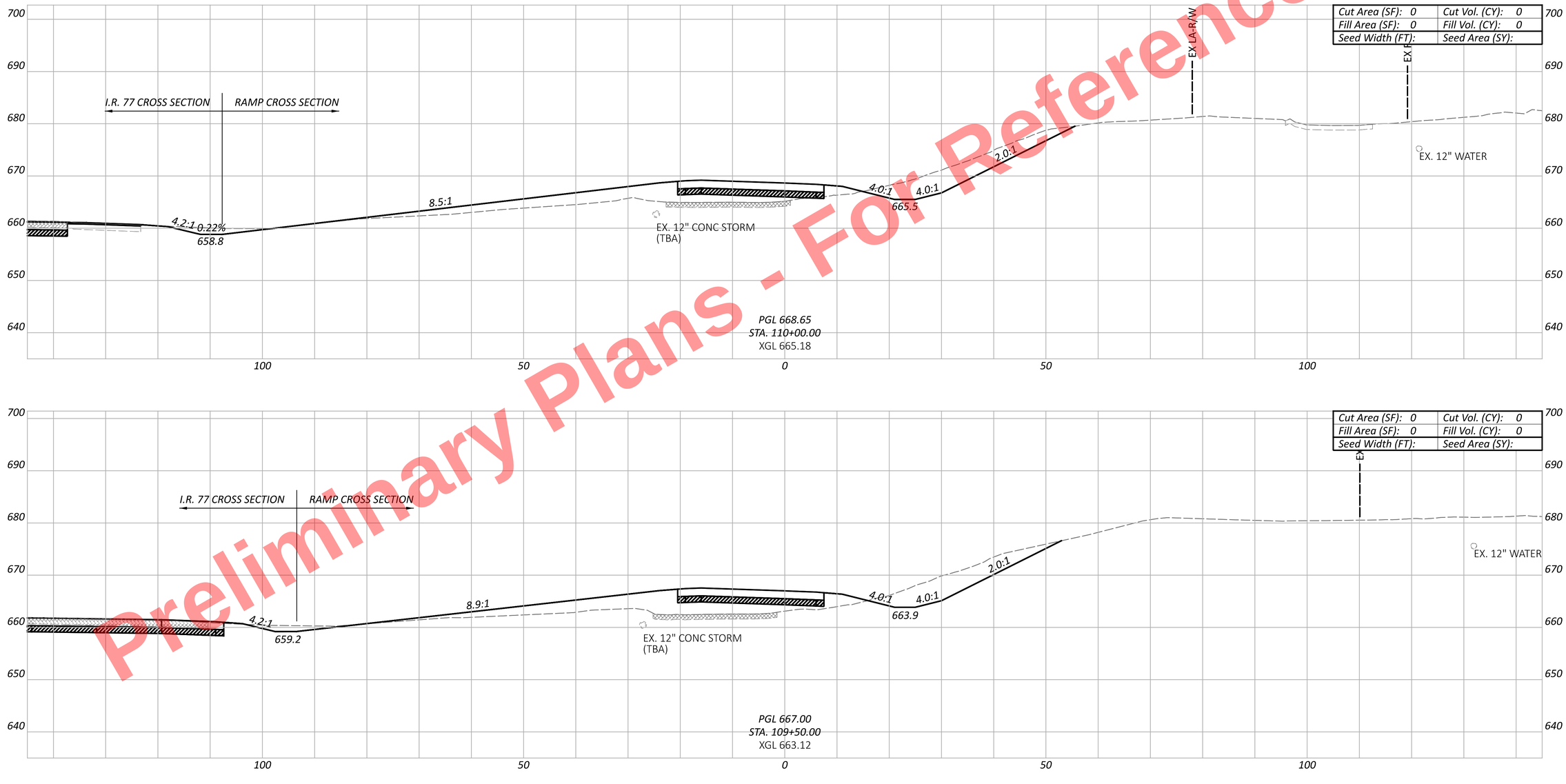
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.536 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - RAMP E1
STA. 109+50.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

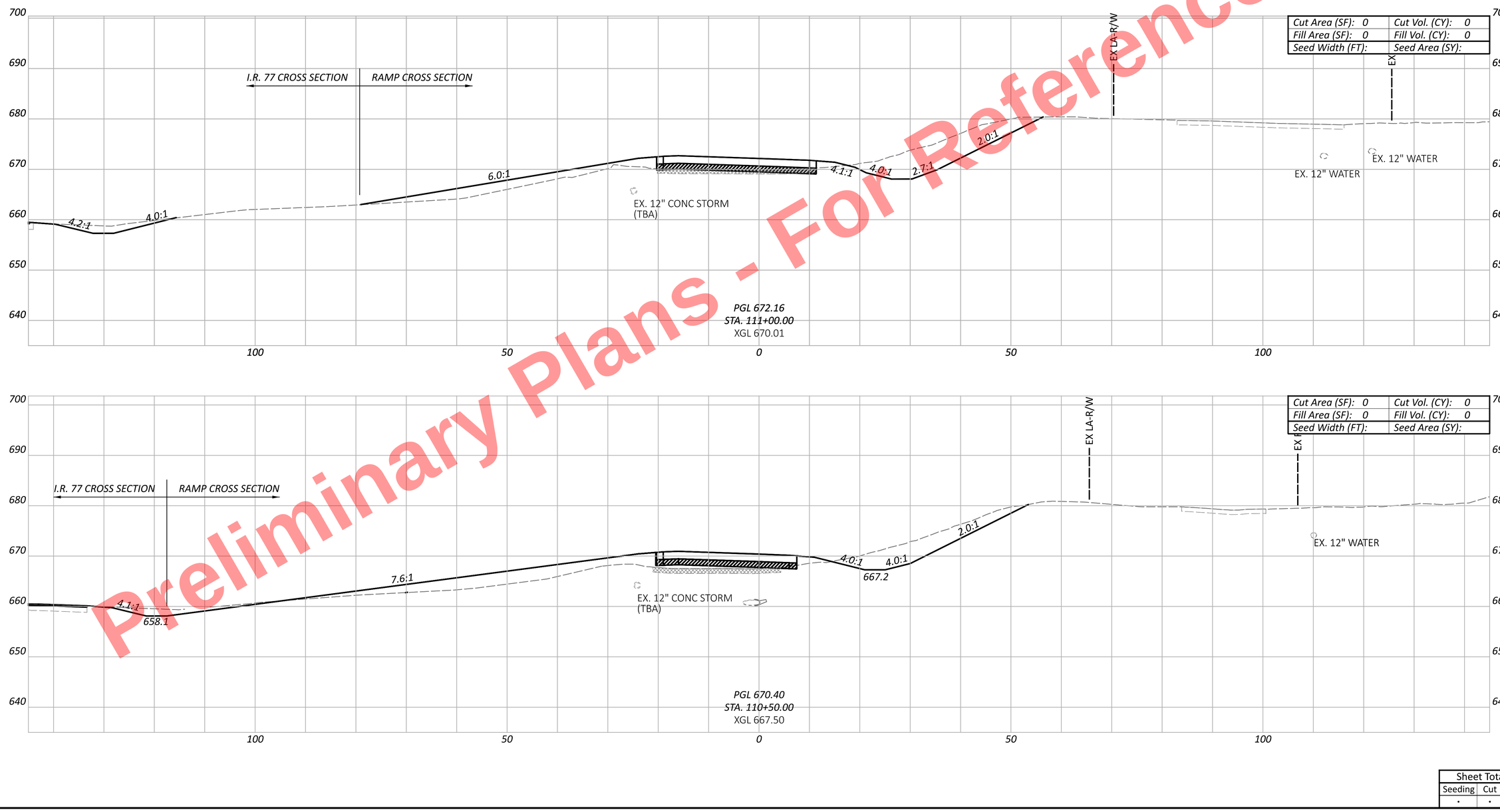
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

SHEET P.537
TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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CROSS SECTIONS - RAMP E1
STA. 110+50.00 TO STA. 111+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

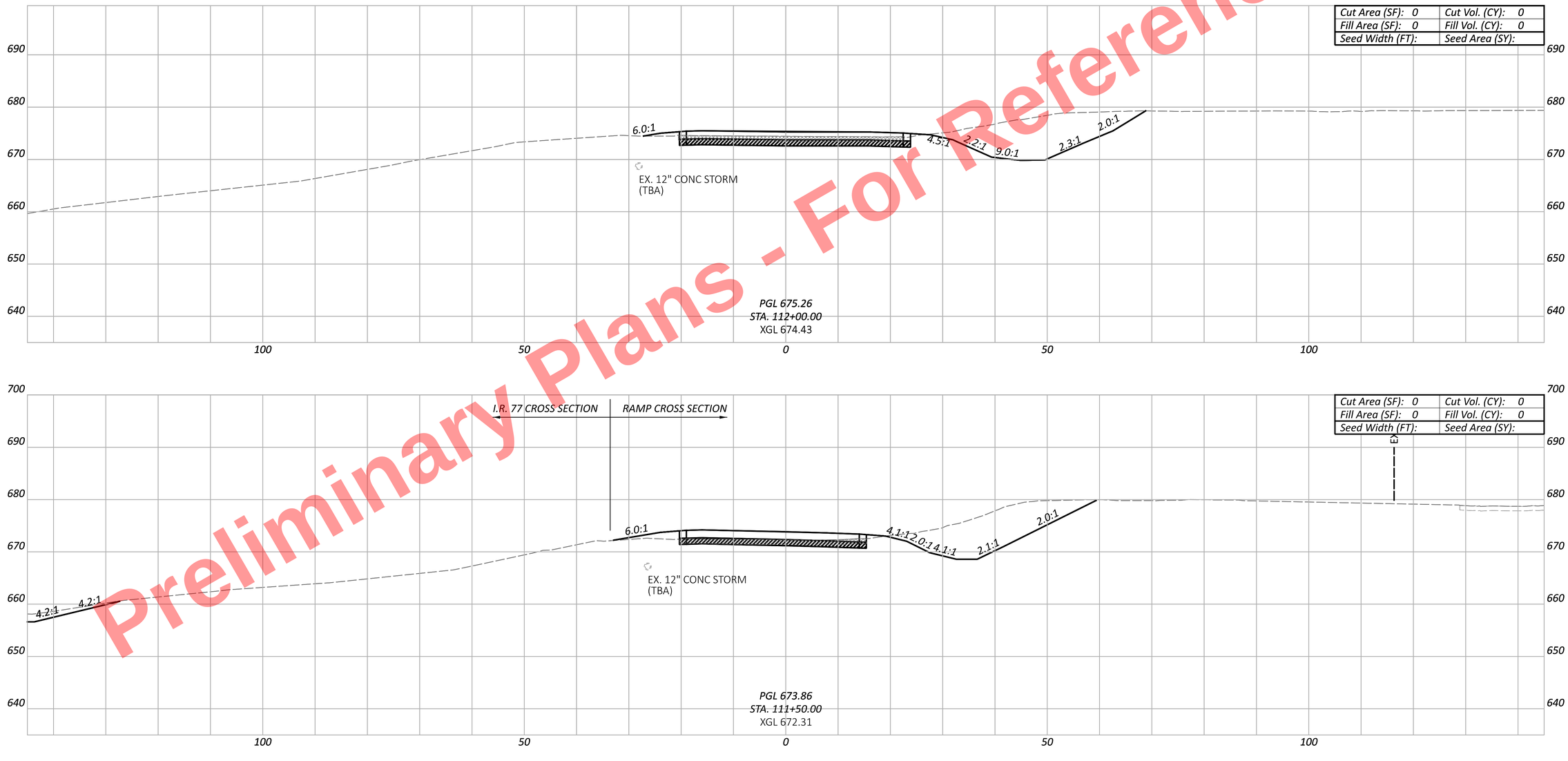
REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.538 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - RAMP E1
STA. 111+50.00 TO STA. 112+00.00

CUY-77-11.43 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
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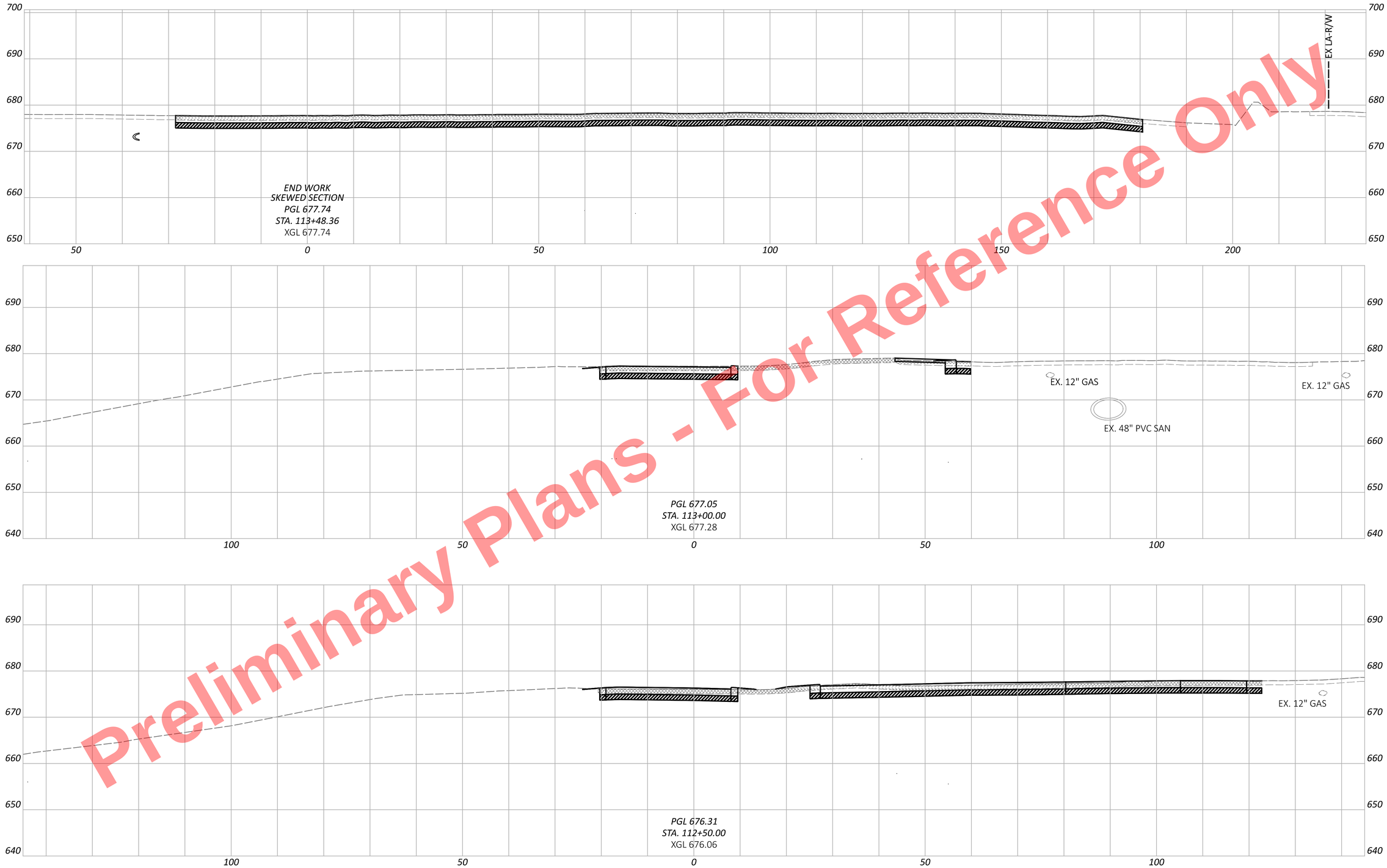
SHEET P.539 TOTAL P.1135




Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP E1
STA. 112+50.00 TO END WORK

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.540 TOTAL P.1135

CUY-77-11.43 - PART 1

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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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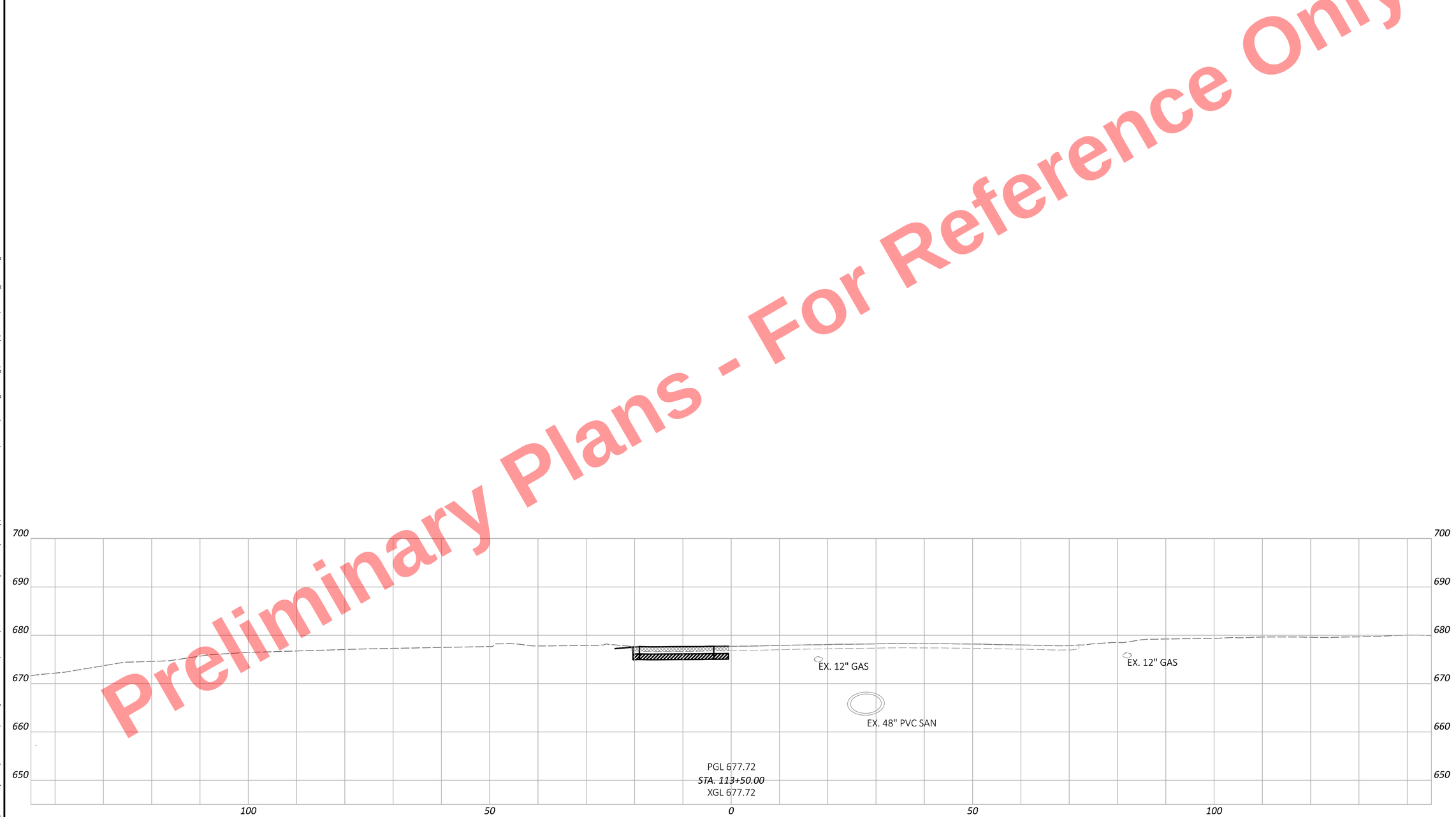



CROSS SECTIONS - RAMP E1
STA. 113+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

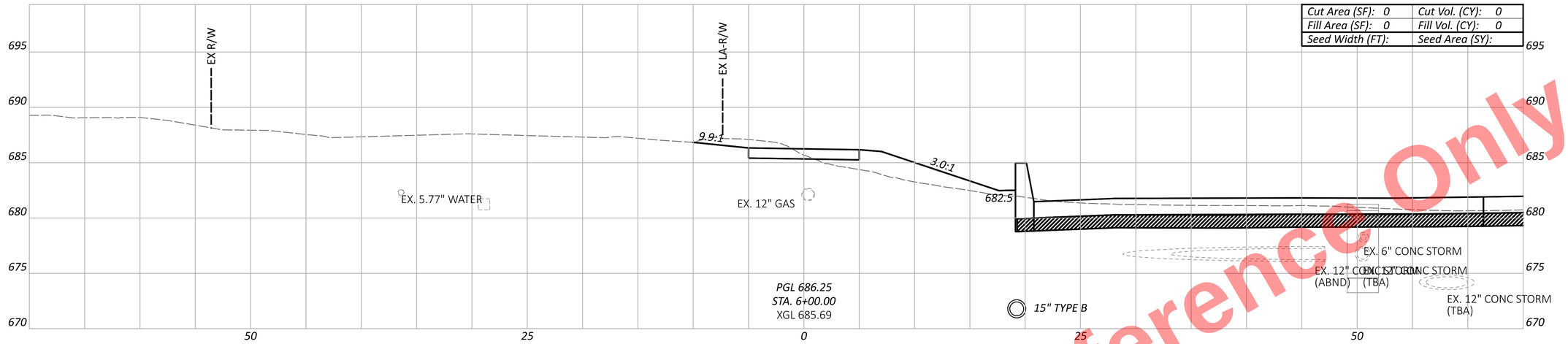
REVIEWER
MTR 04/01/22

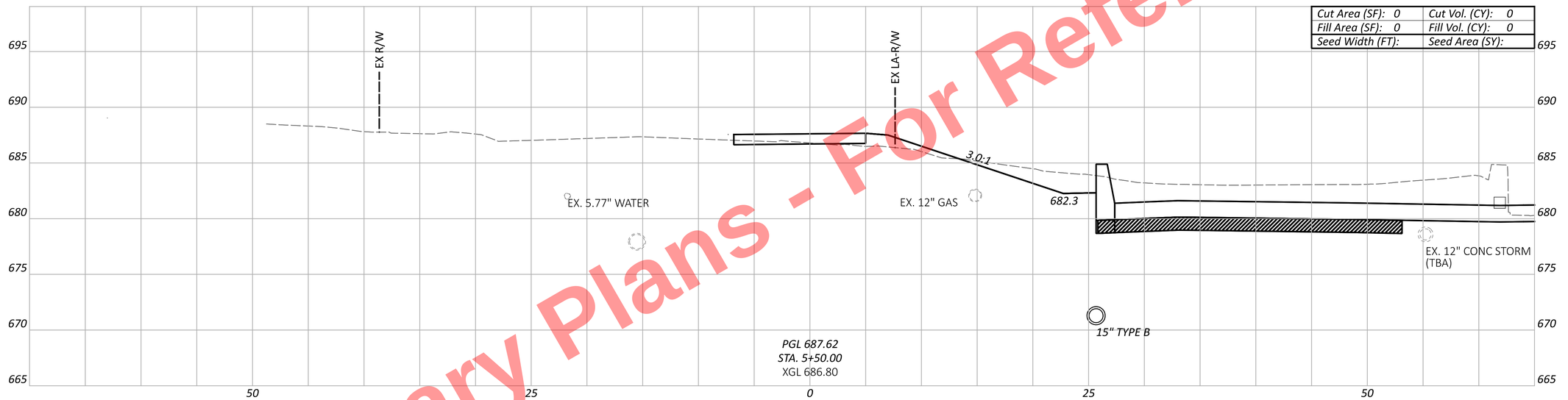
PROJECT ID
105743

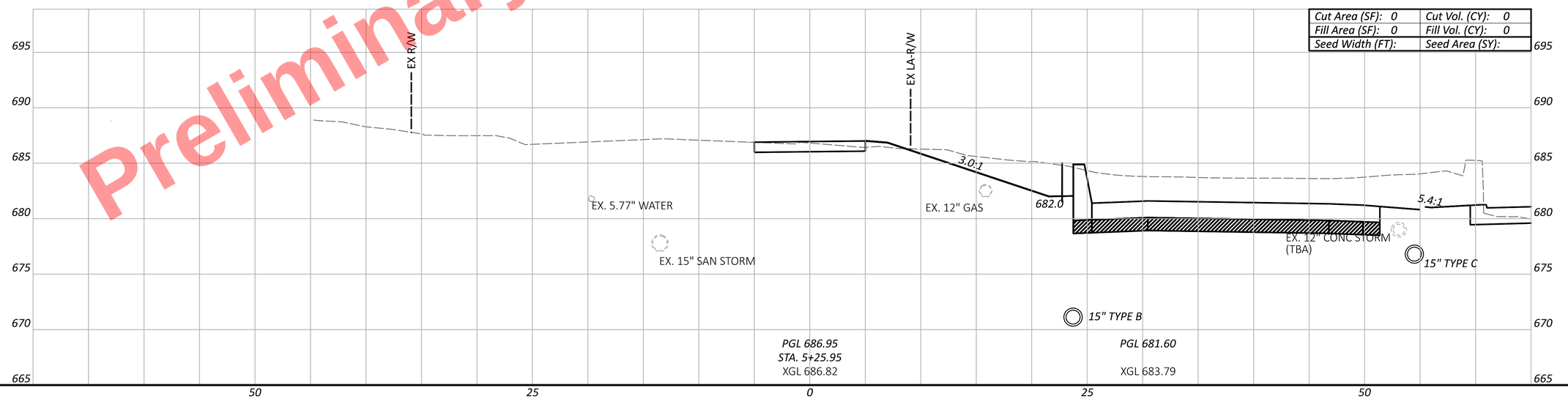
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.541 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - MUP WEST
## BEGIN TO STA. 6+00.00

DESIGN AGENCY

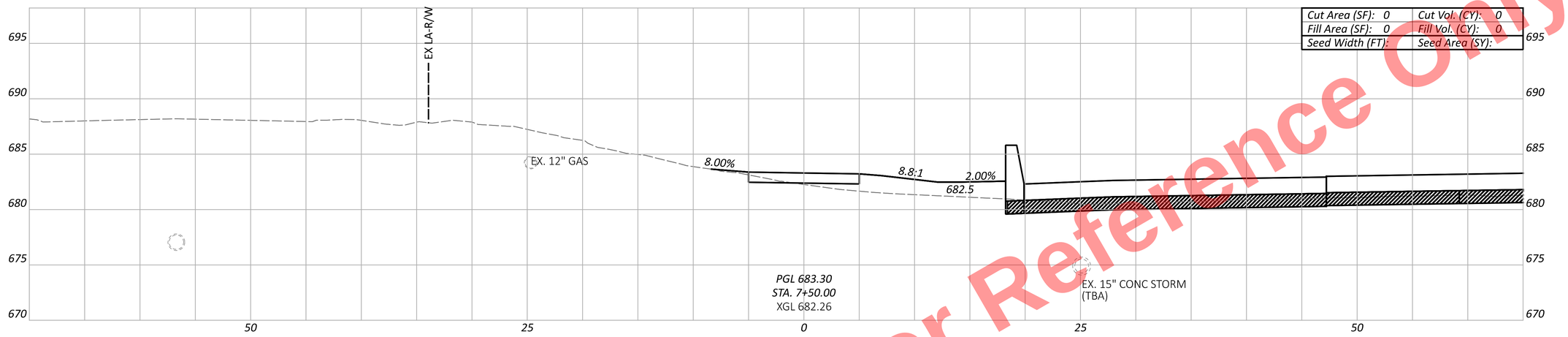
DESIGNER KMM

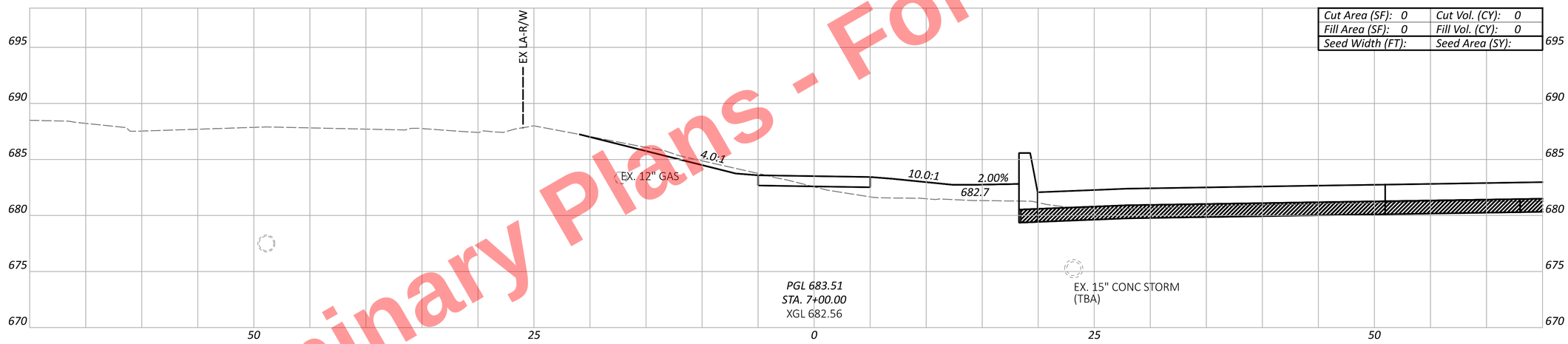
REVIEWER AS 11/05/25

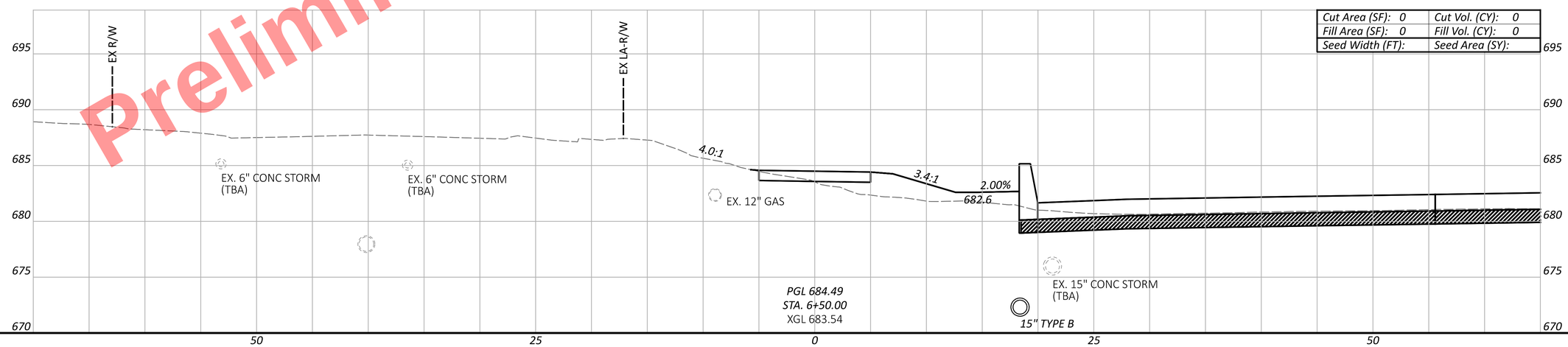
PROJECT ID 105743

SHEET P.542 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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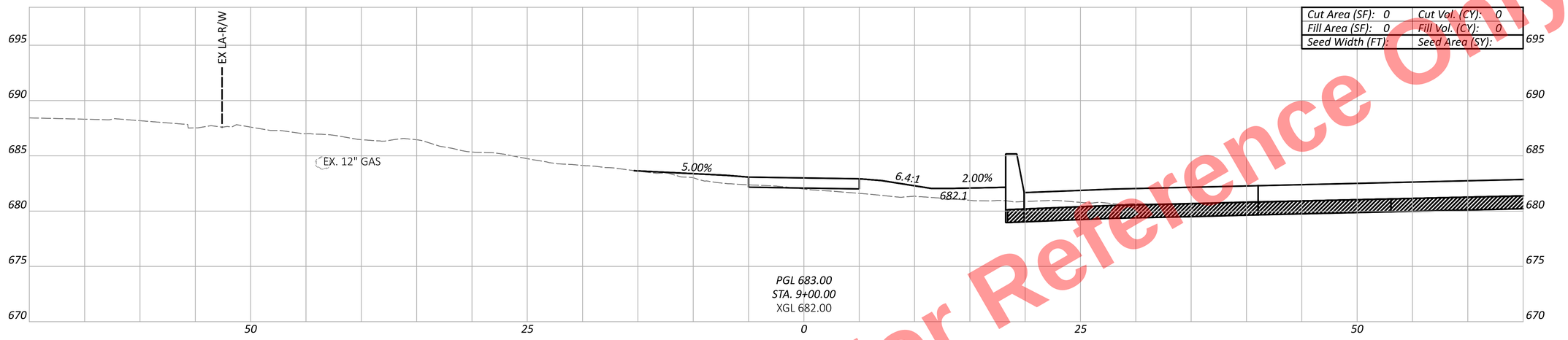
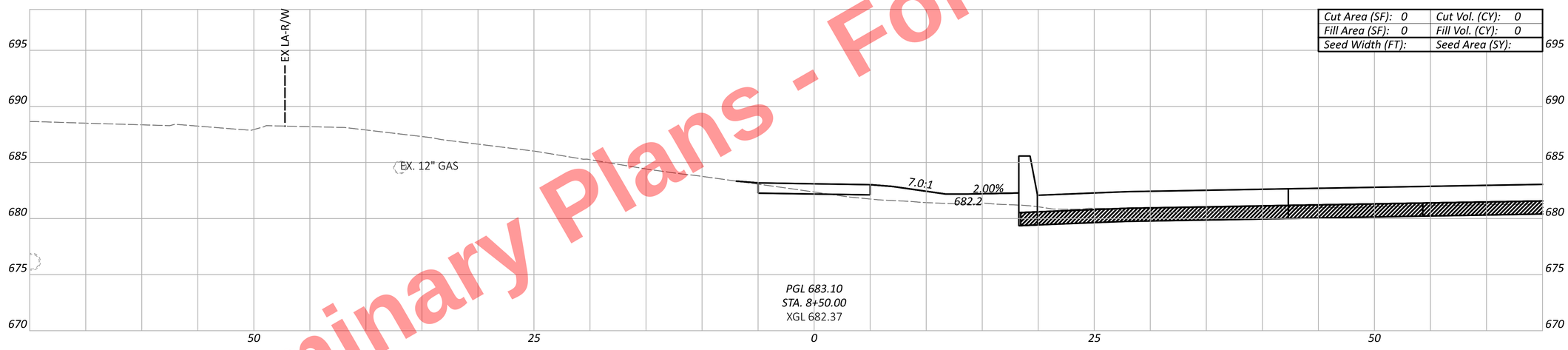
CROSS SECTIONS - MUP WEST
STA. 6+50.00 TO STA. 7+50.00

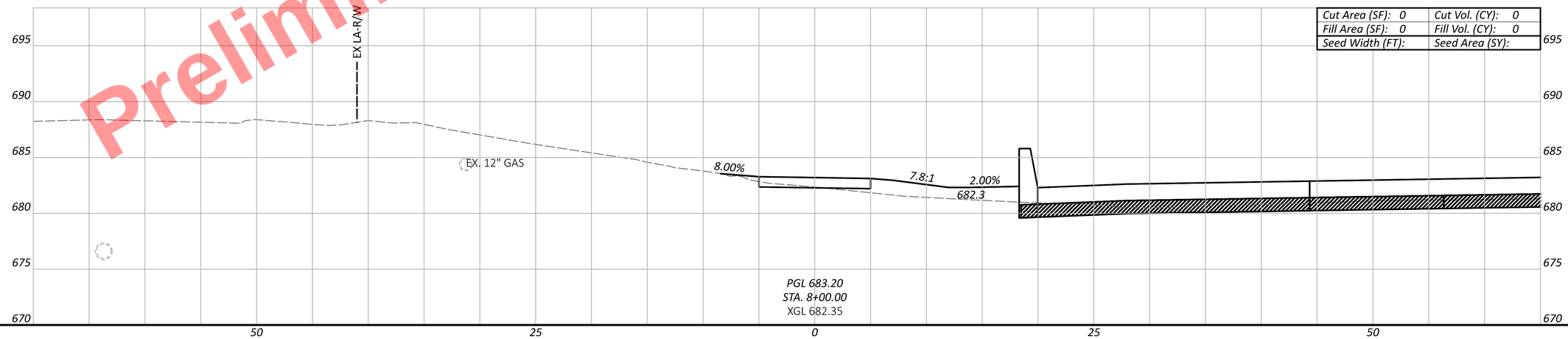
DESIGN AGENCY

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.543 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 8+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# CROSS SECTIONS - MUP WEST
# STA. 8+00.00 TO STA. 9+00.00

DESIGN AGENCY

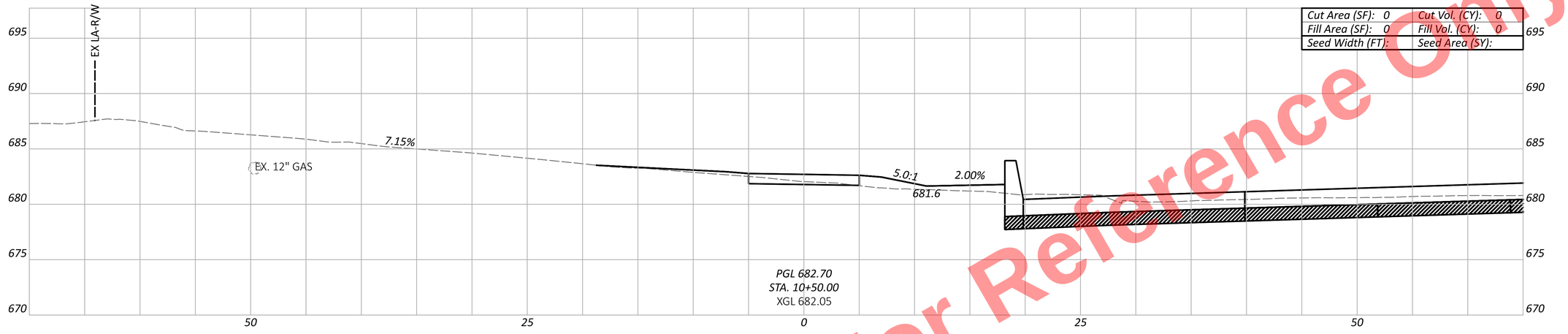
DESIGNER
KMM

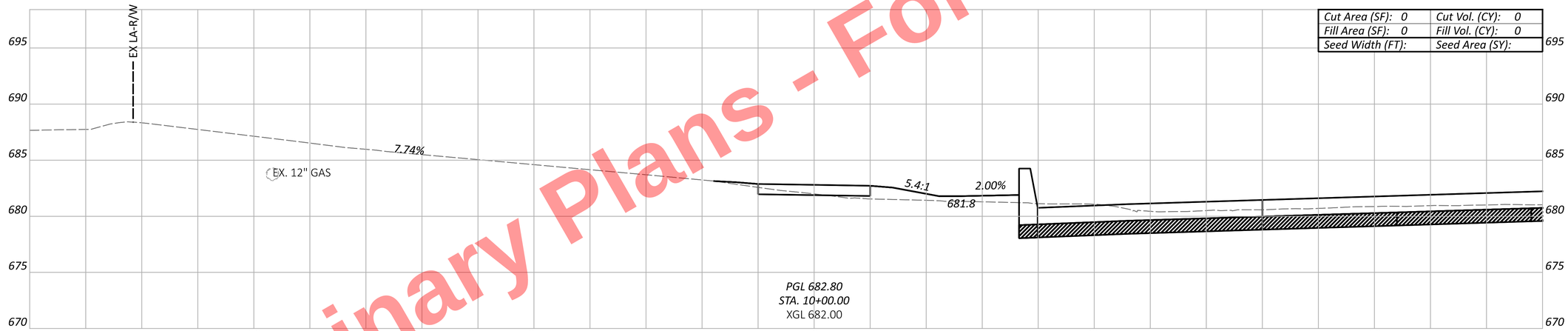
REVIEWER
AS 11/05/25

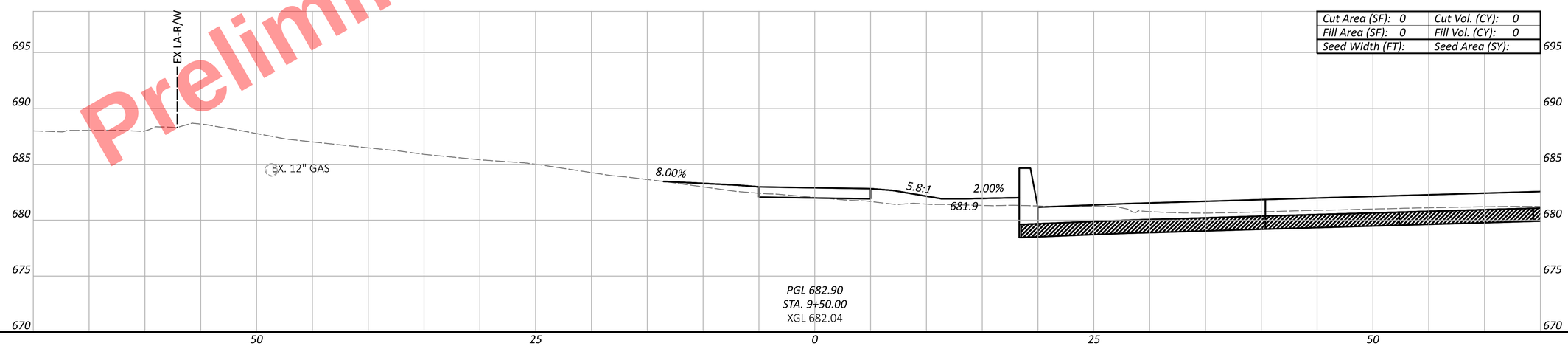
PROJECT ID
105743

SHEET P.544 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - MUP WEST
STA. 9+50.00 TO STA. 10+50.00

DESIGN AGENCY

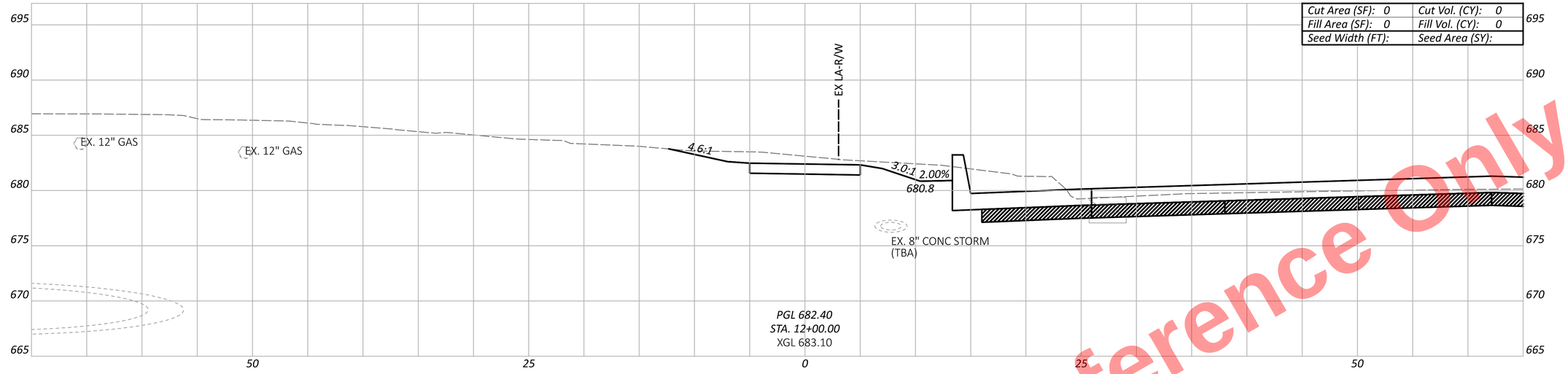
DESIGNER KMM

REVIEWER AS 11/05/25

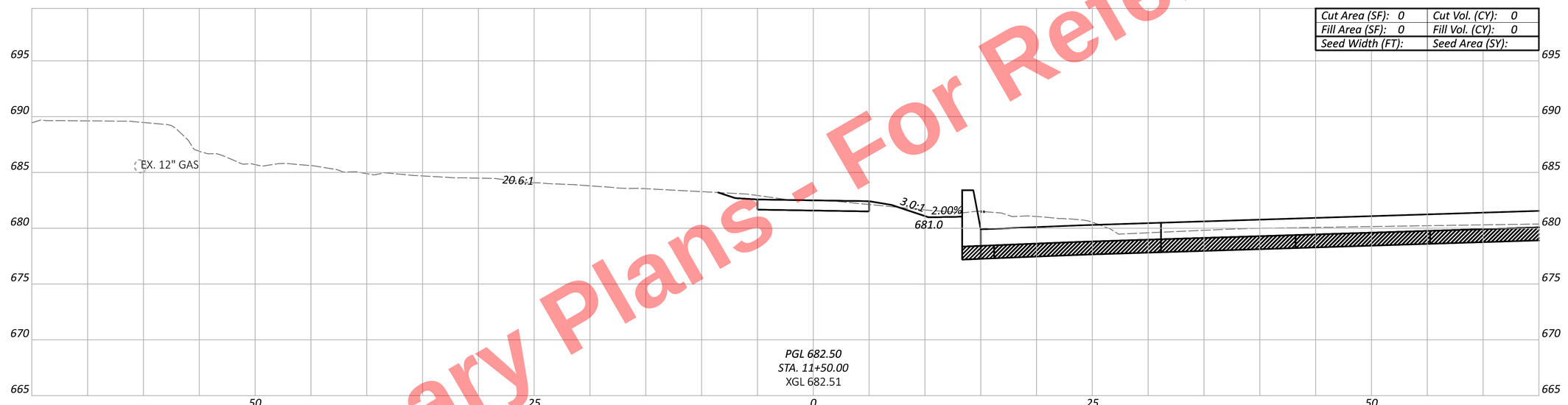
PROJECT ID 105743

SHEET P.545 | TOTAL P.1135

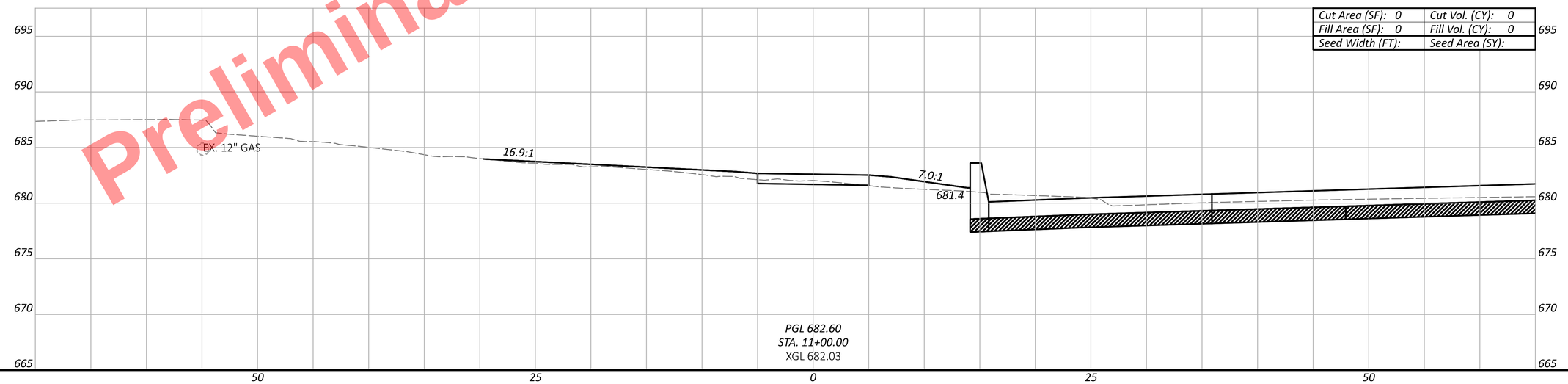
MODEL: CLP_MUP - 9+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 11+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# CROSS SECTIONS - MUP WEST
## STA. 11+00.00 TO STA. 12+00.00

DESIGN AGENCY

DESIGNER KMM

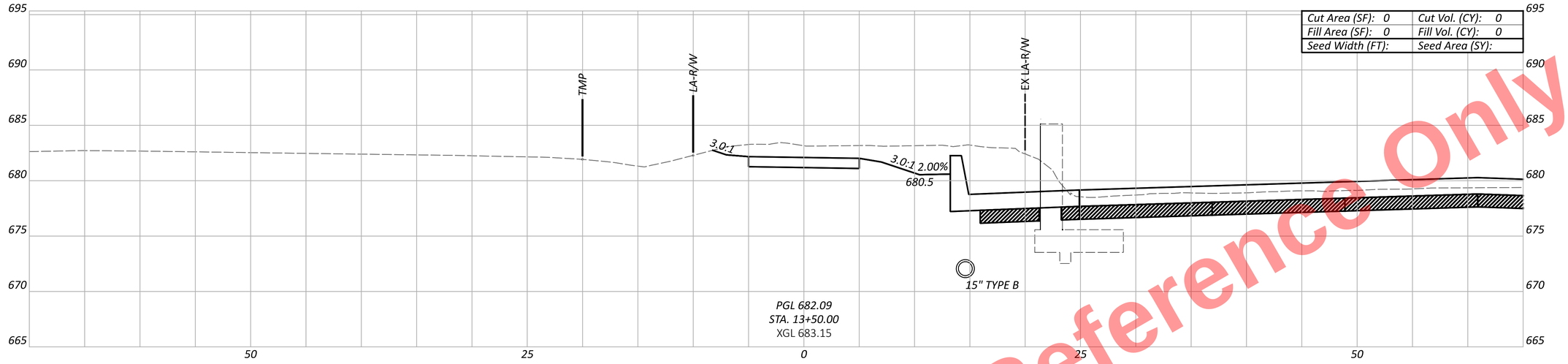
REVIEWER AS 11/05/25

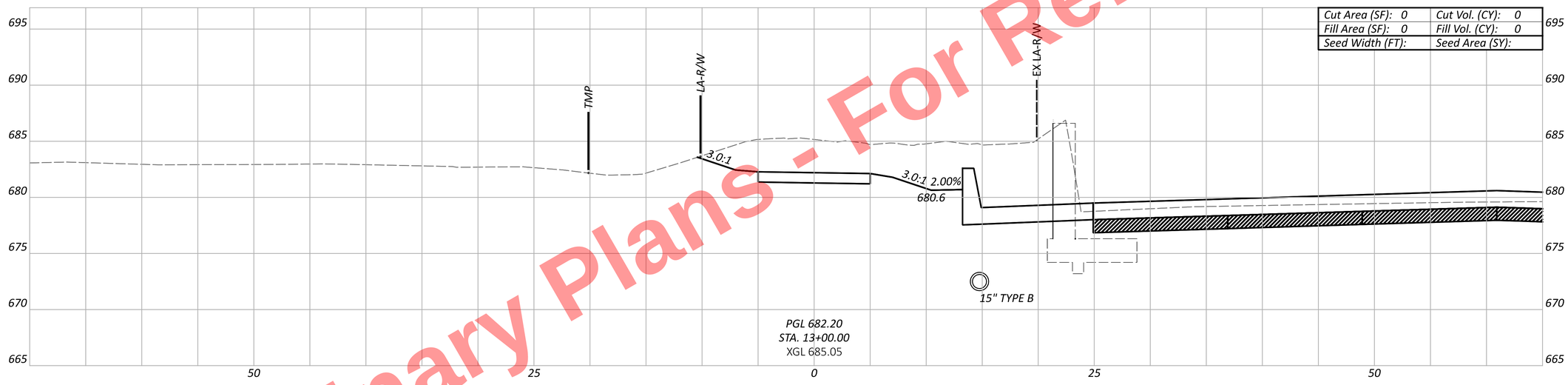
PROJECT ID 105743

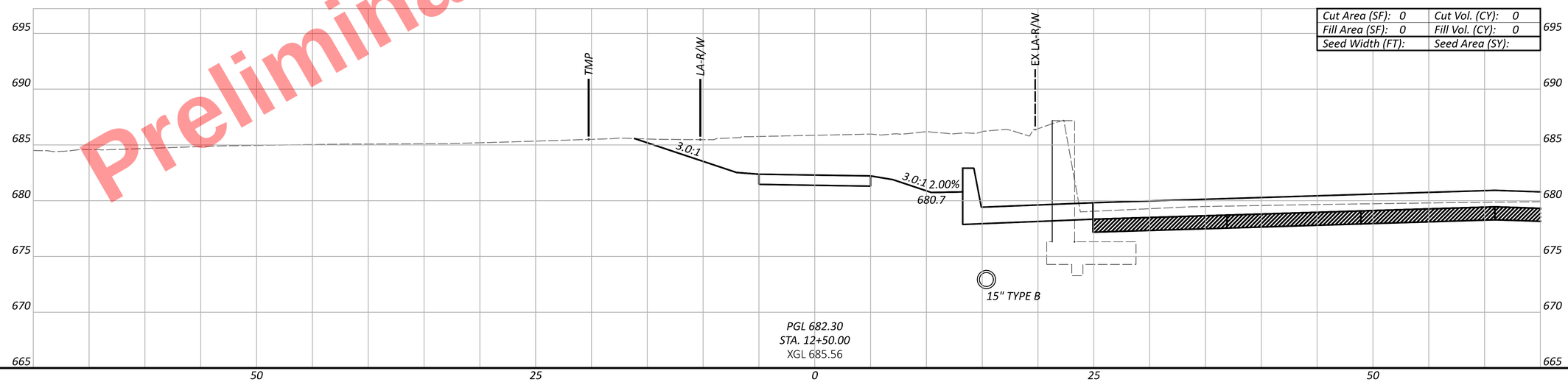
SHEET P.546 TOTAL P.1135

MODEL: CLP_MUP - 12+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:17 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn






Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 12+50.00 TO STA. 13+50.00

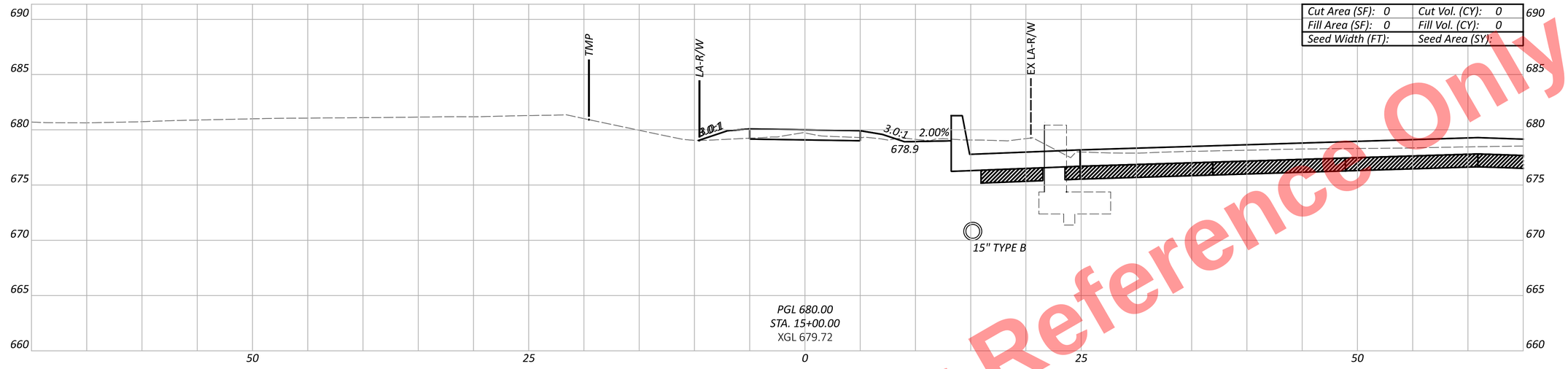
DESIGN AGENCY

DESIGNER KMM

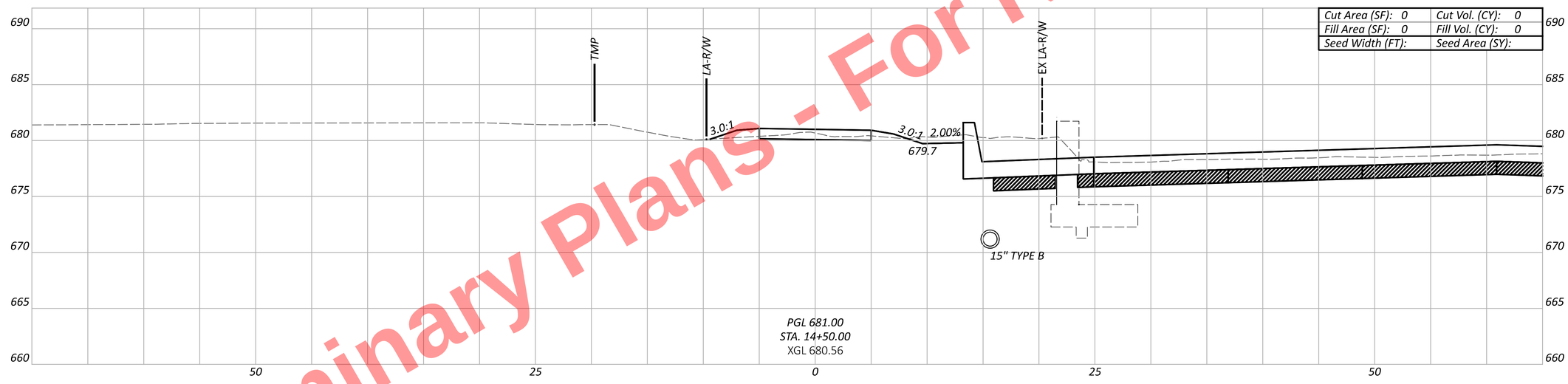
REVIEWER AS 11/05/25

PROJECT ID 105743

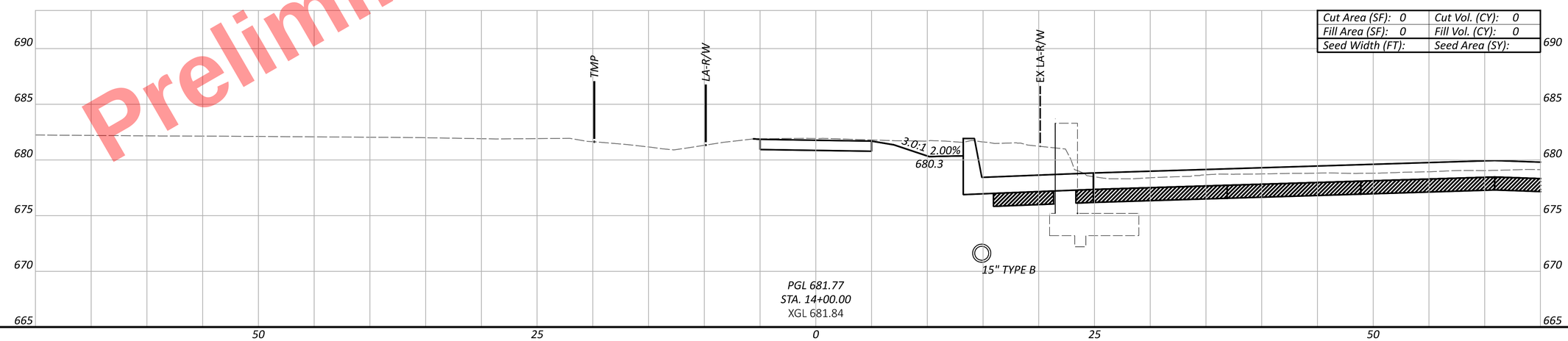
SHEET P.547 | TOTAL P.1135




PGL 680.00
STA. 15+00.00
XGL 679.72




PGL 681.00
STA. 14+50.00
XGL 680.56




PGL 681.77
STA. 14+00.00
XGL 681.84

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 14+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# CROSS SECTIONS - MUP WEST
## STA. 14+00.00 TO STA. 15+00.00

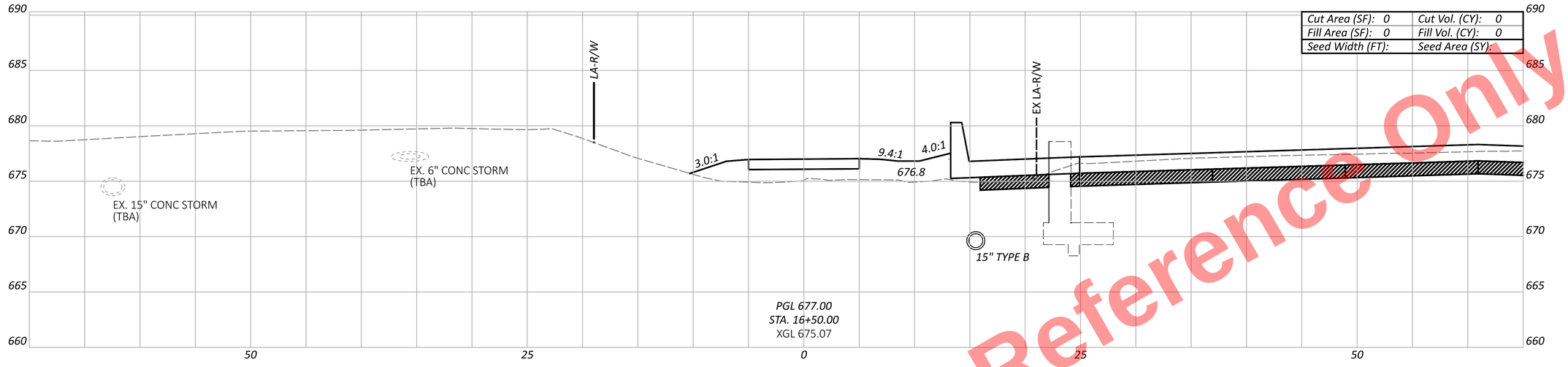
DESIGN AGENCY

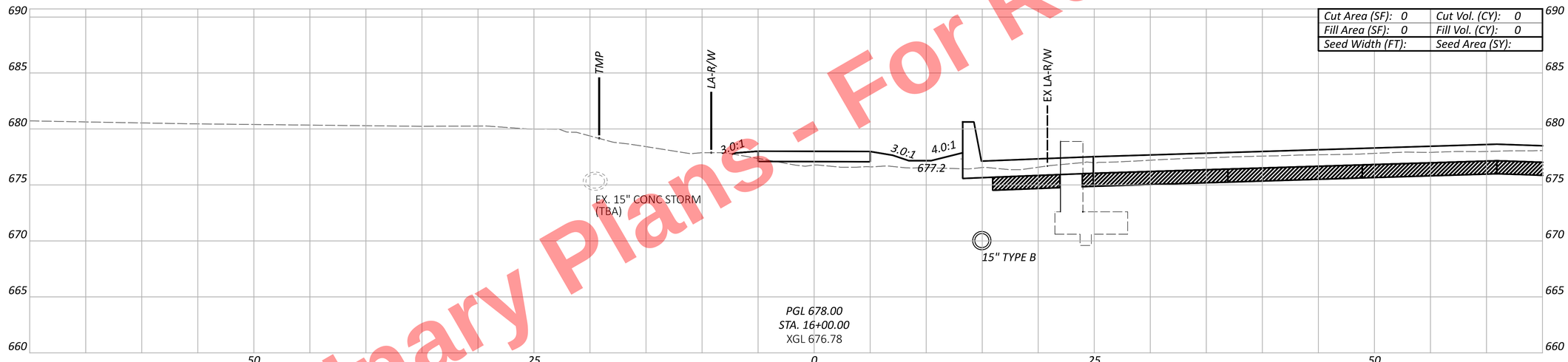
DESIGNER KMM

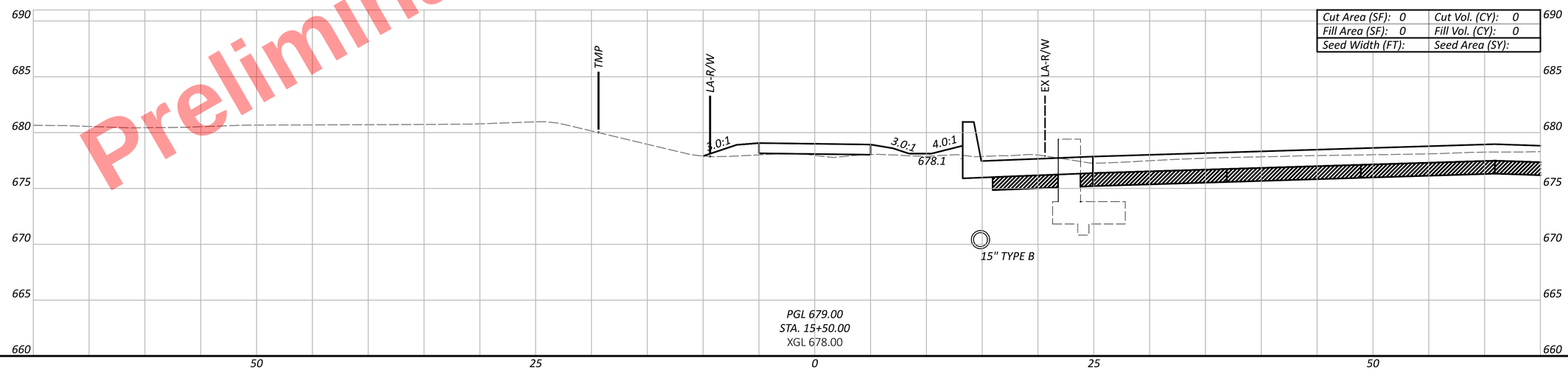
REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.548 TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

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# CROSS SECTIONS - MUP WEST
## STA. 15+50.00 TO STA. 16+50.00

DESIGN AGENCY

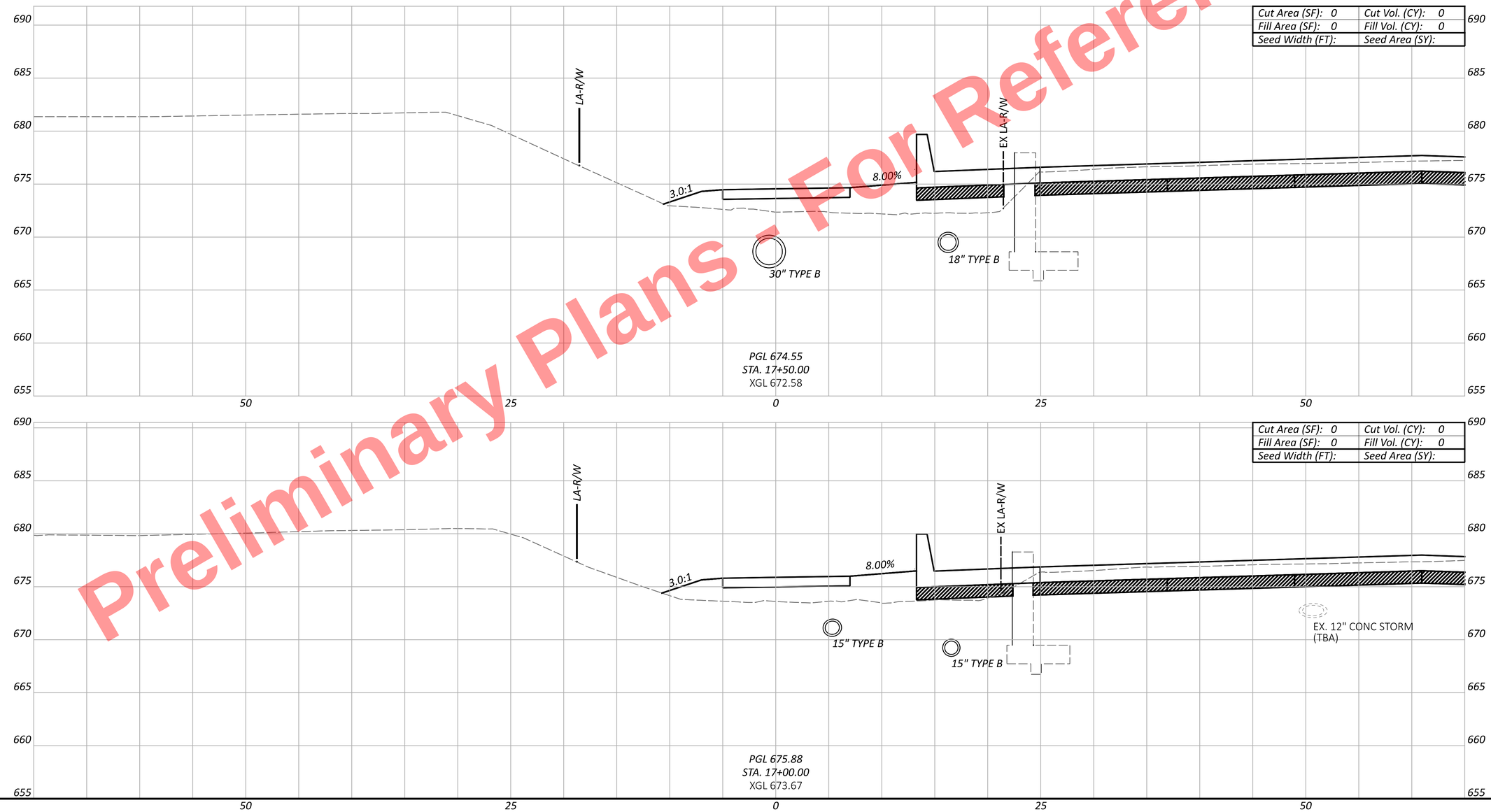
DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.549 | TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 17+00.00 TO STA. 17+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.550 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 17+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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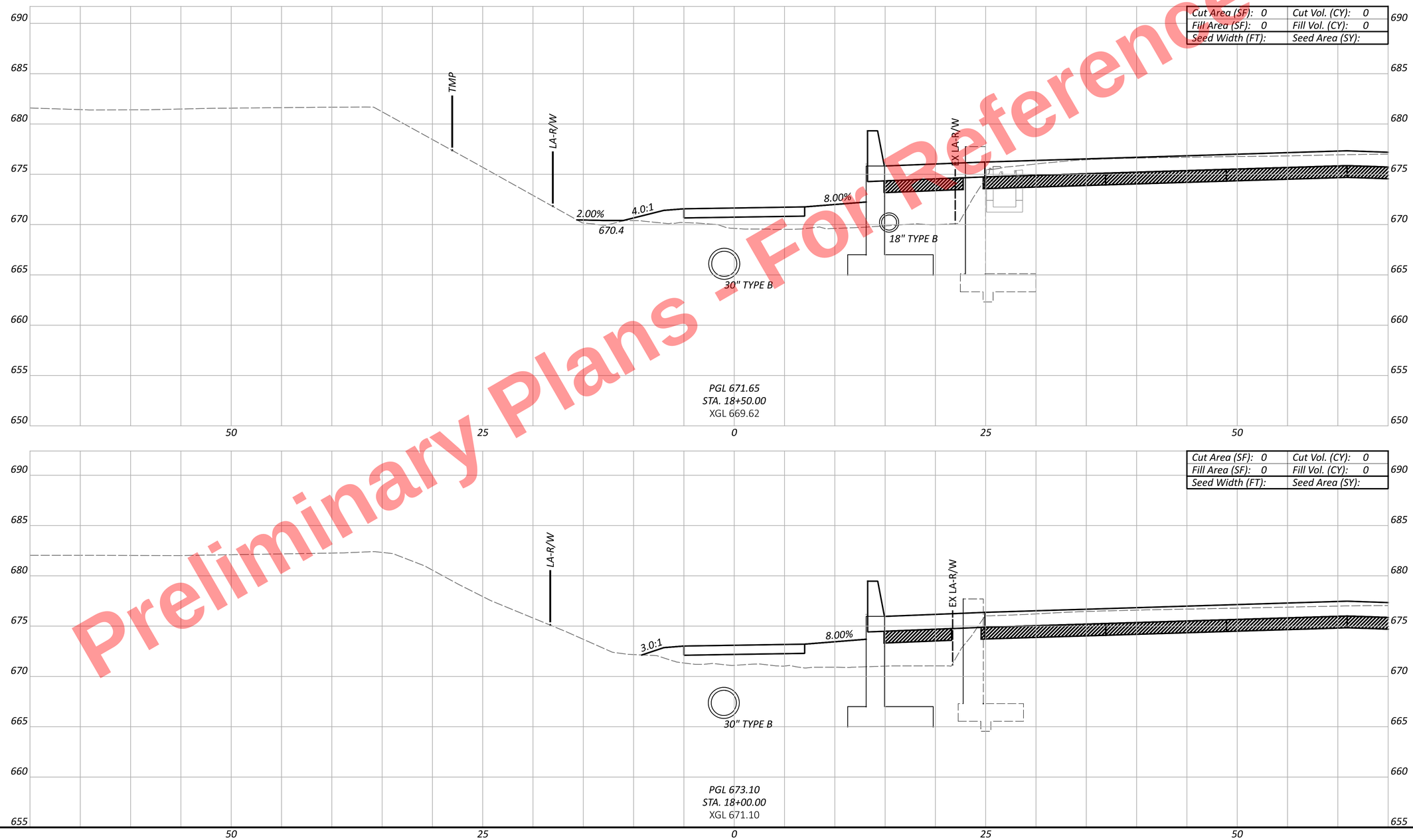
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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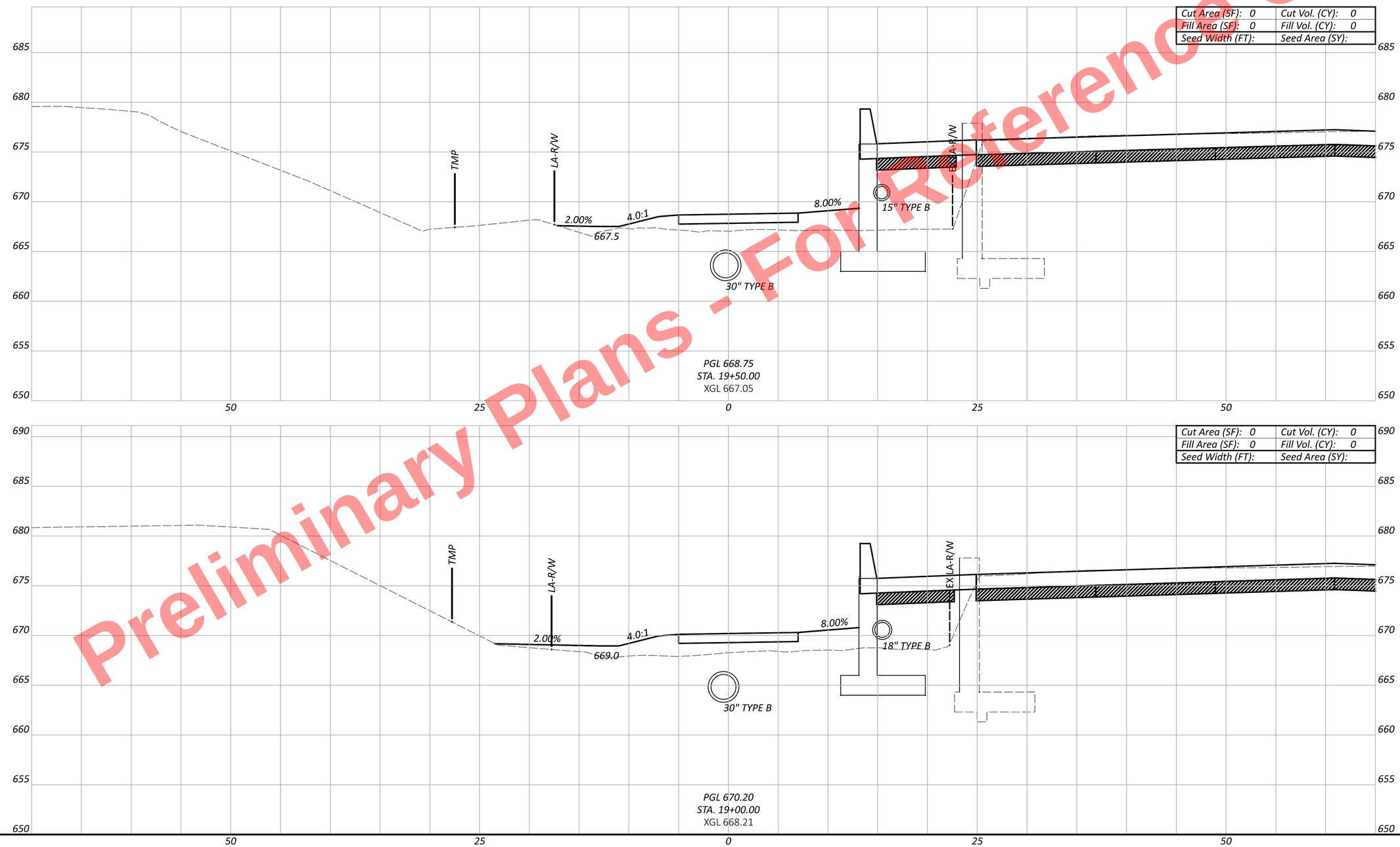
# CROSS SECTIONS - MUP WEST
# STA. 18+00.00 TO STA. 18+50.00

DESIGN AGENCY

DESIGNER: KMM
REVIEWER: AS 11/05/25
PROJECT ID: 105743
SHEET: P.551 | TOTAL: P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

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# CROSS SECTIONS - MUP WEST
STA. 19+00.00 TO STA. 19+50.00

DESIGN AGENCY

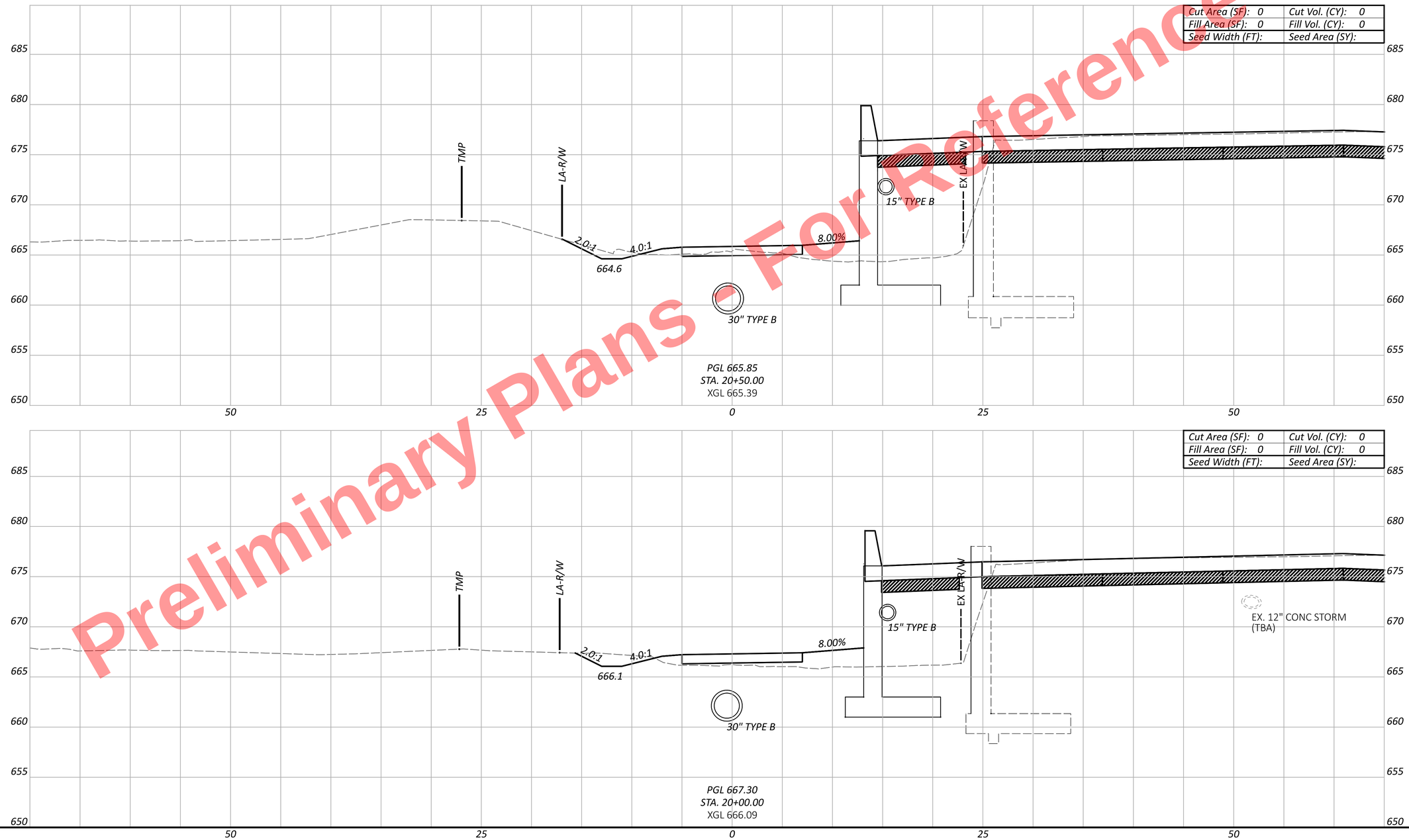
DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.552 TOTAL P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 20+00.00 TO STA. 20+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.553 | TOTAL P.1135

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 20+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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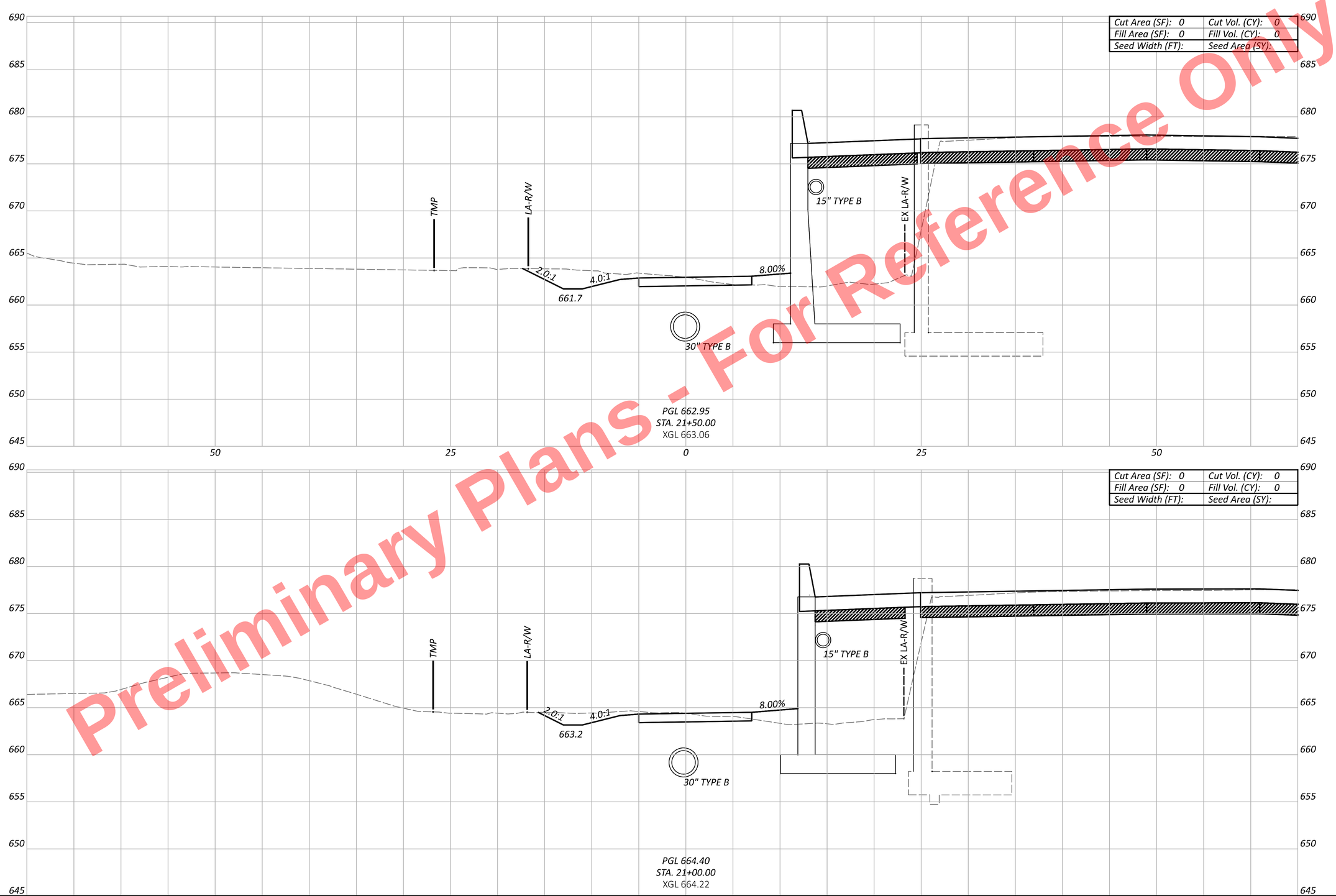
Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 21+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:27 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# CROSS SECTIONS - MUP WEST
# STA. 21+00.00 TO STA. 21+50.00

DESIGN AGENCY

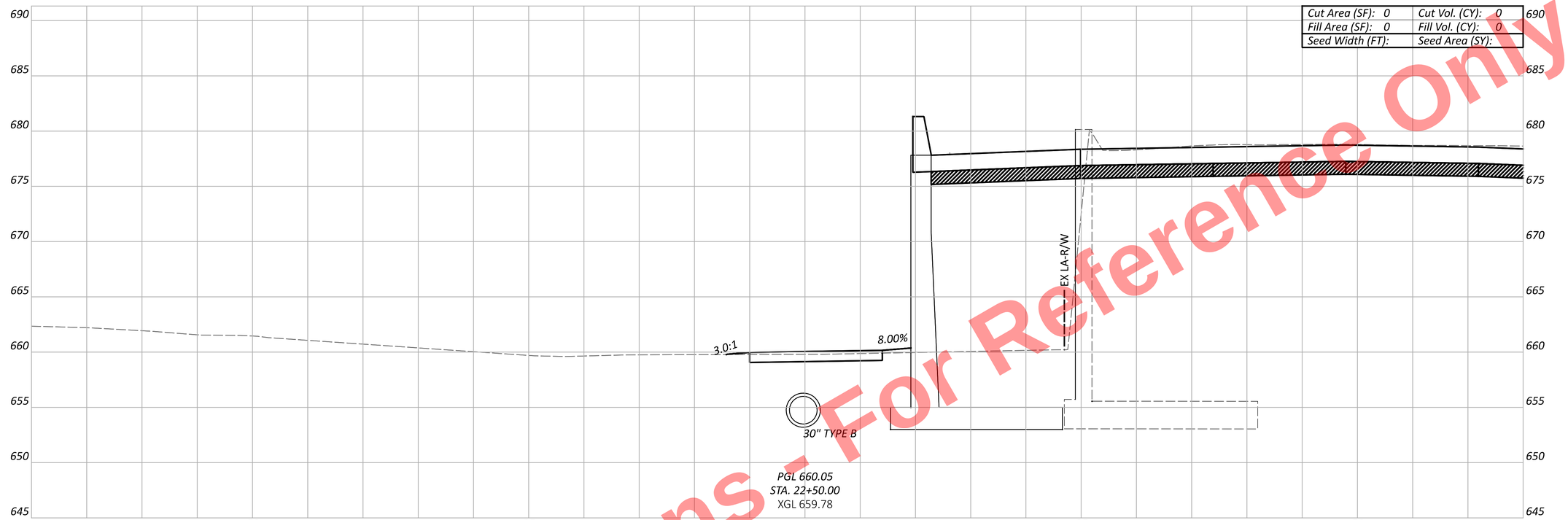
DESIGNER KMM

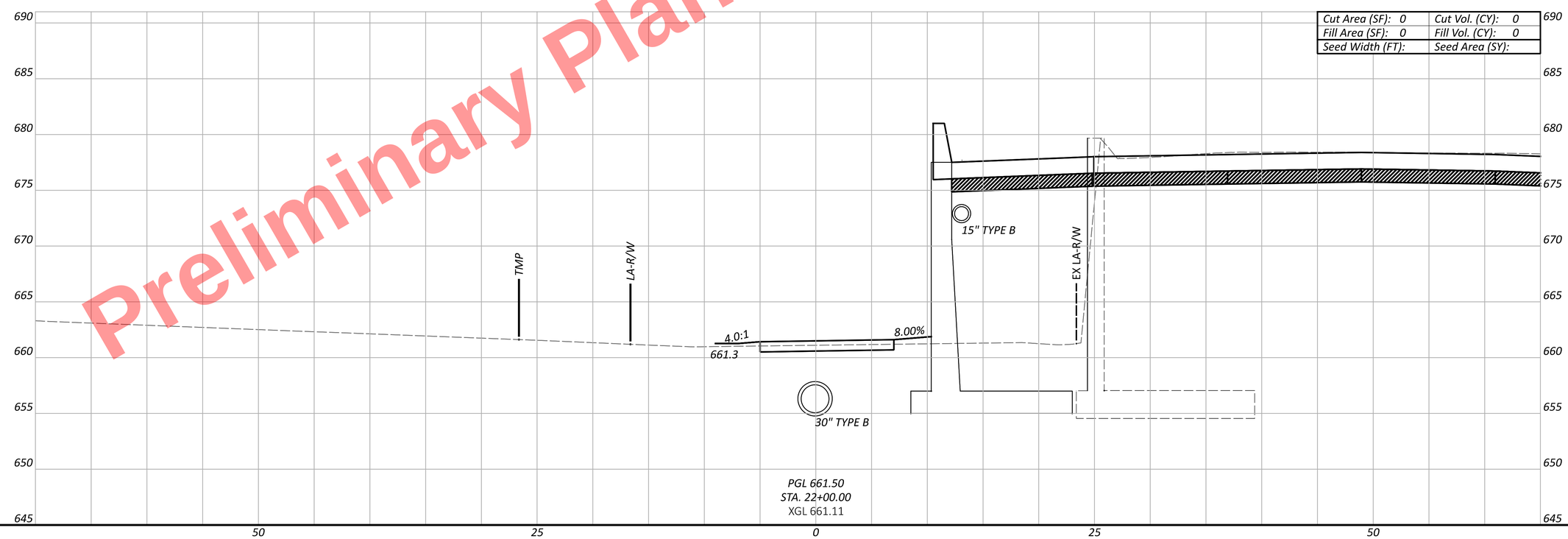
REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.554 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.43 - PART 1

CROSS SECTIONS - MUP WEST
STA. 22+00.00 TO STA. 22+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.555 | TOTAL P.1135

MODEL: CLP_MUP - 22+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_MUP - 23+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690
685
680
675
670
665
660
655
650
645
640

EX. 36" CONC STORM
(TBA)

EX LA-R/W

8.00%

30" TYPE B

PGL 658.60
STA. 23+00.00
XGL 658.43

50 25 0 25 50

CROSS SECTIONS - MUP WEST
STA. 23+00.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.556 TOTAL P.1135

MODEL: CLP_MUP - 23+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:31 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690 685 680 675 670 665 660 655 650 645 640

EX LA-R/W

8.00% 8.00%

PGL 657.15
STA. 23+50.00
XGL 656.90

50 25 0 25 50

# CROSS SECTIONS - MUP WEST
STA. 23+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

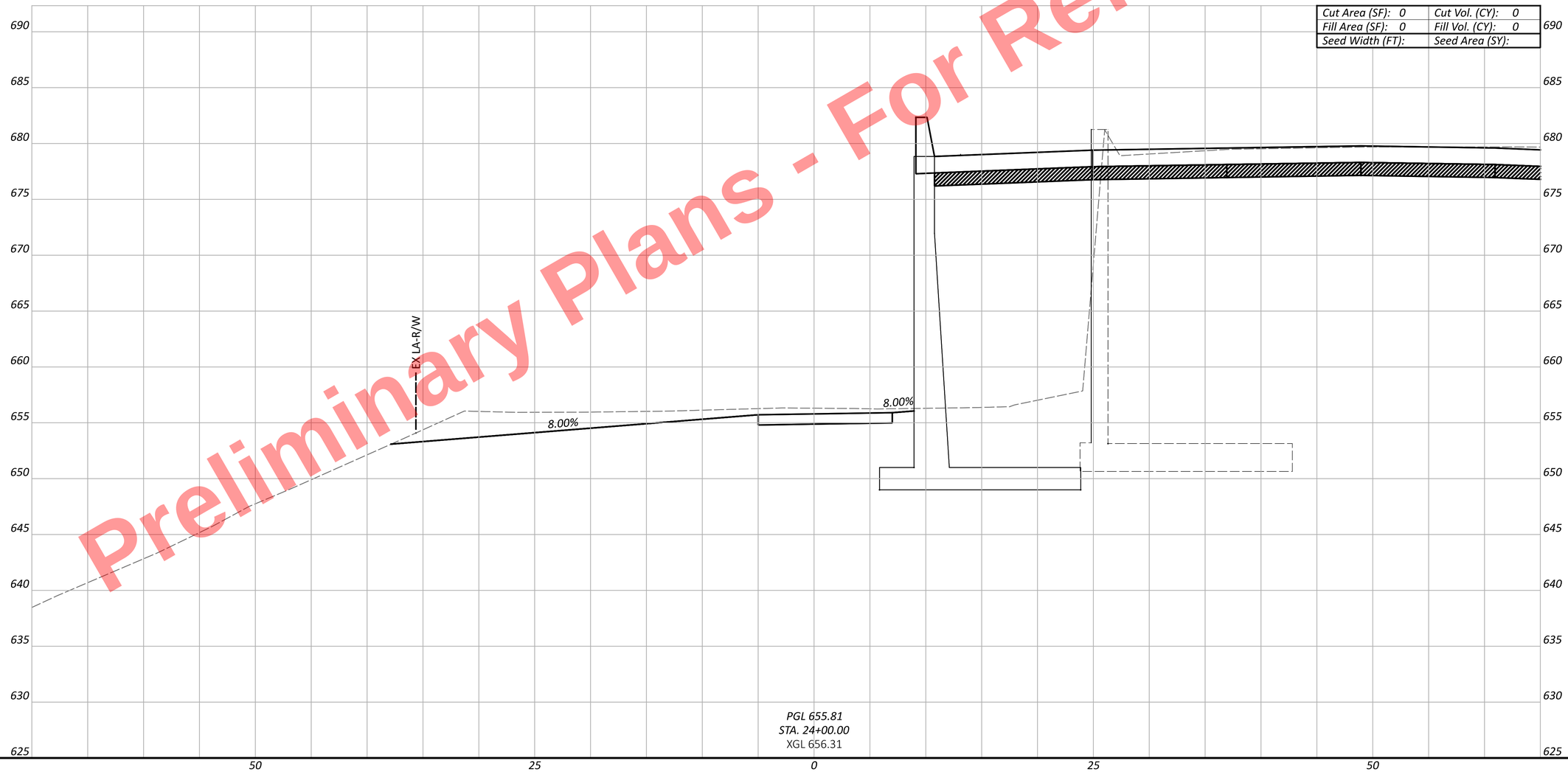
PROJECT ID 105743

SHEET P.557 TOTAL P.1135

MODEL: CLP_MUP - 24+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn



Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 24+00.00

DESIGN AGENCY

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.558 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 24+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.43 - PART 1

| | |
|---|---|
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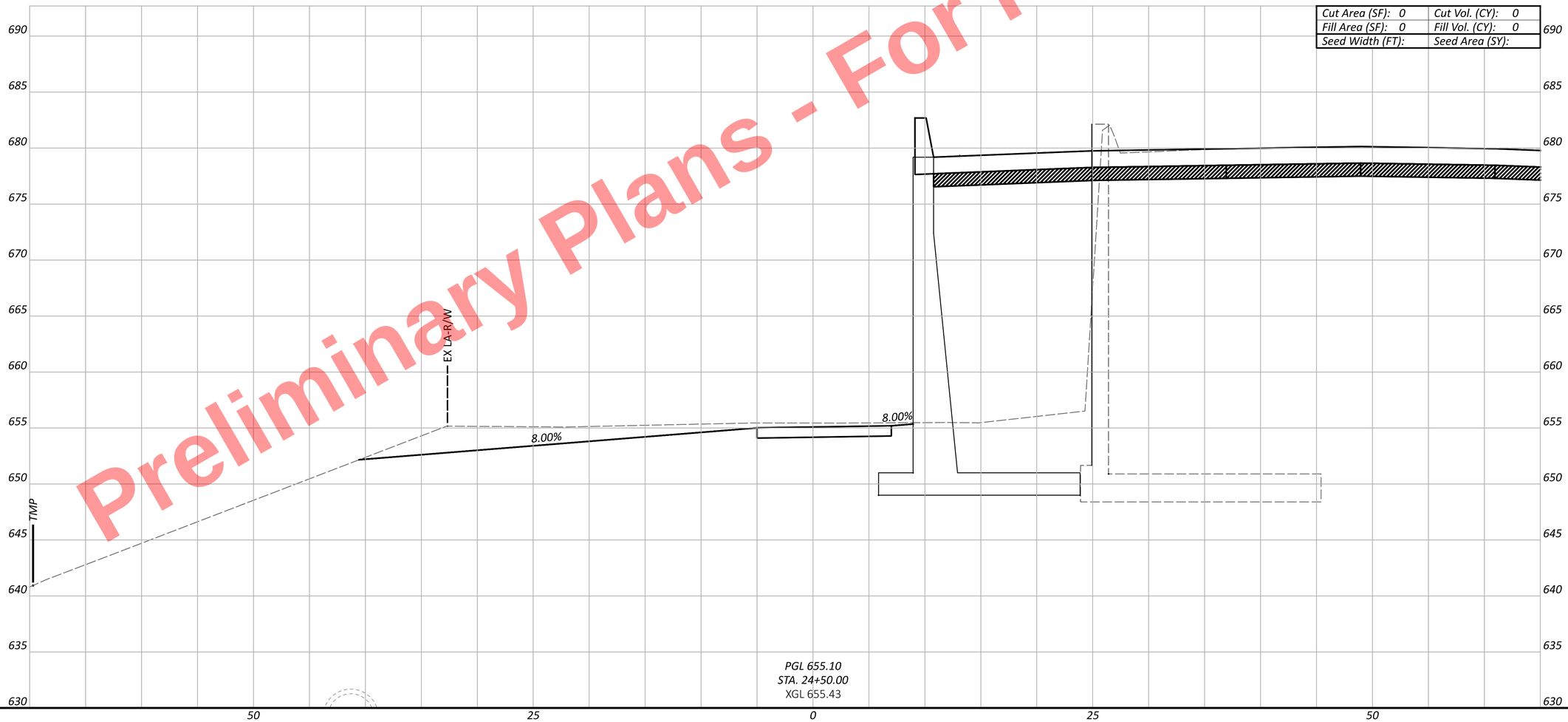
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




PGL 655.10
STA. 24+50.00
XGL 655.43

CROSS SECTIONS - MUP WEST
STA. 24+50.00

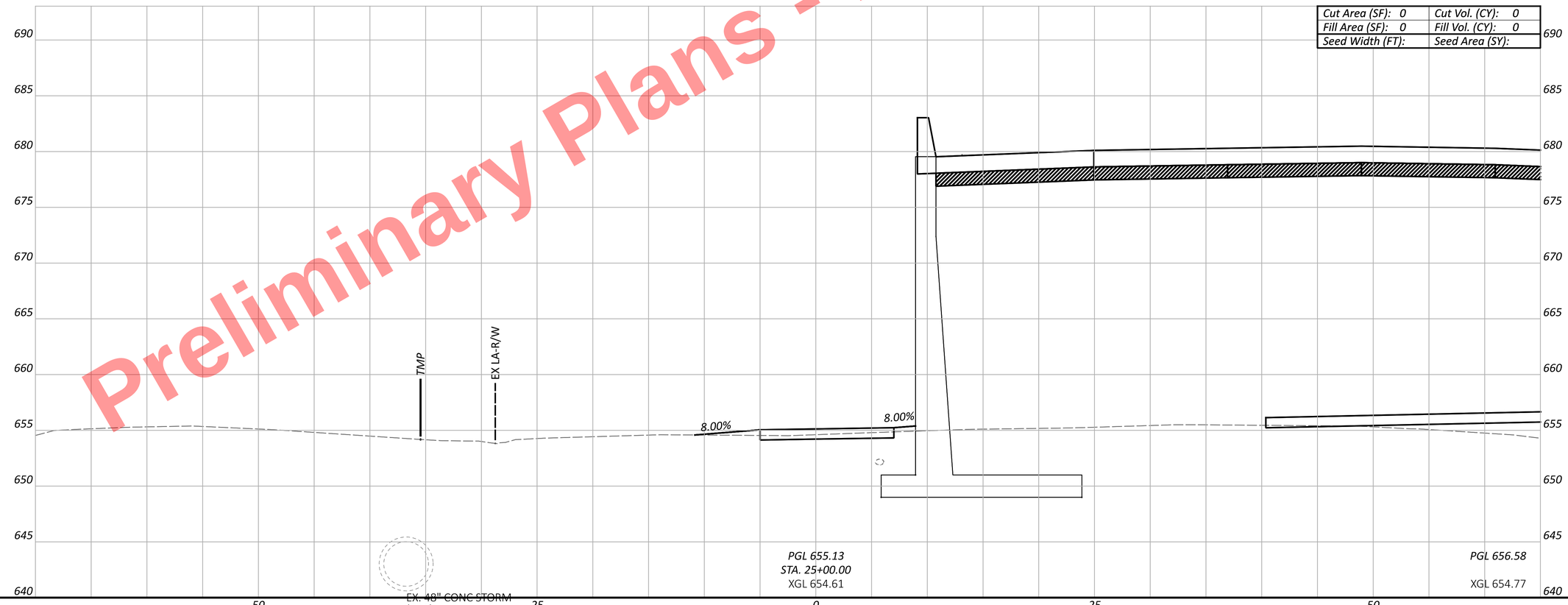
DESIGN AGENCY

| | |
|---|---|
| DESIGNER | KMM |
| REVIEWER | AS 11/05/25 |
| PROJECT ID | 105743 |
| SHEET | P.559 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 25+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:34 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn




CROSS SECTIONS - MUP WEST
STA. 25+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.560 TOTAL P.1135

Preliminary Plans - For Reference Only

CUY-77-11.43 - PART 1

MODEL: CLP_MUP - 25+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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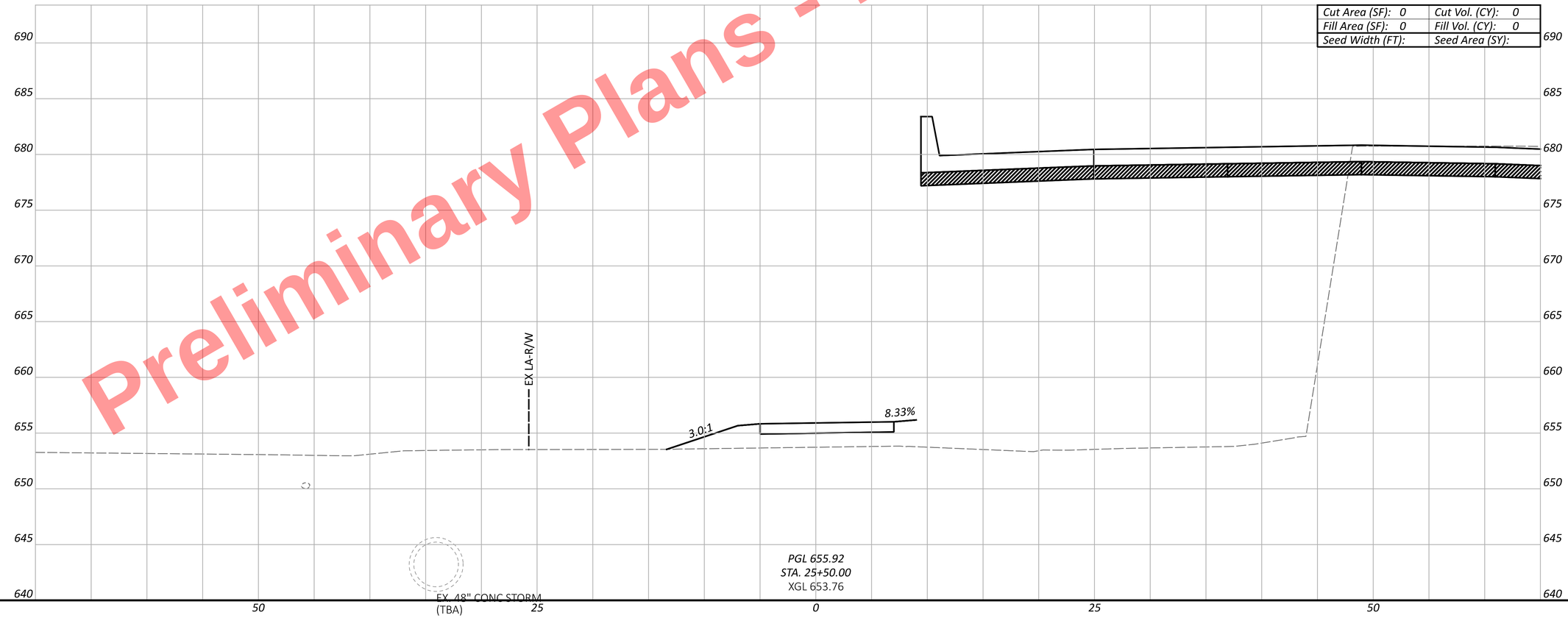
| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - MUP WEST
STA. 25+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.561 | TOTAL P.1135

Preliminary Plans - For Reference Only

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CUY-77-11.43 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690 685 680 675 670 665 660 655 650 645 640

EX LA-R/W

3.0:1

8.33%

EX. 48" CONC STORM (TBA)

PGL 657.34
STA. 26+00.00
XGL 654.48

50 25 0 25 50

CROSS SECTIONS - MUP WEST
STA. 26+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.562 | TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 26+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:37 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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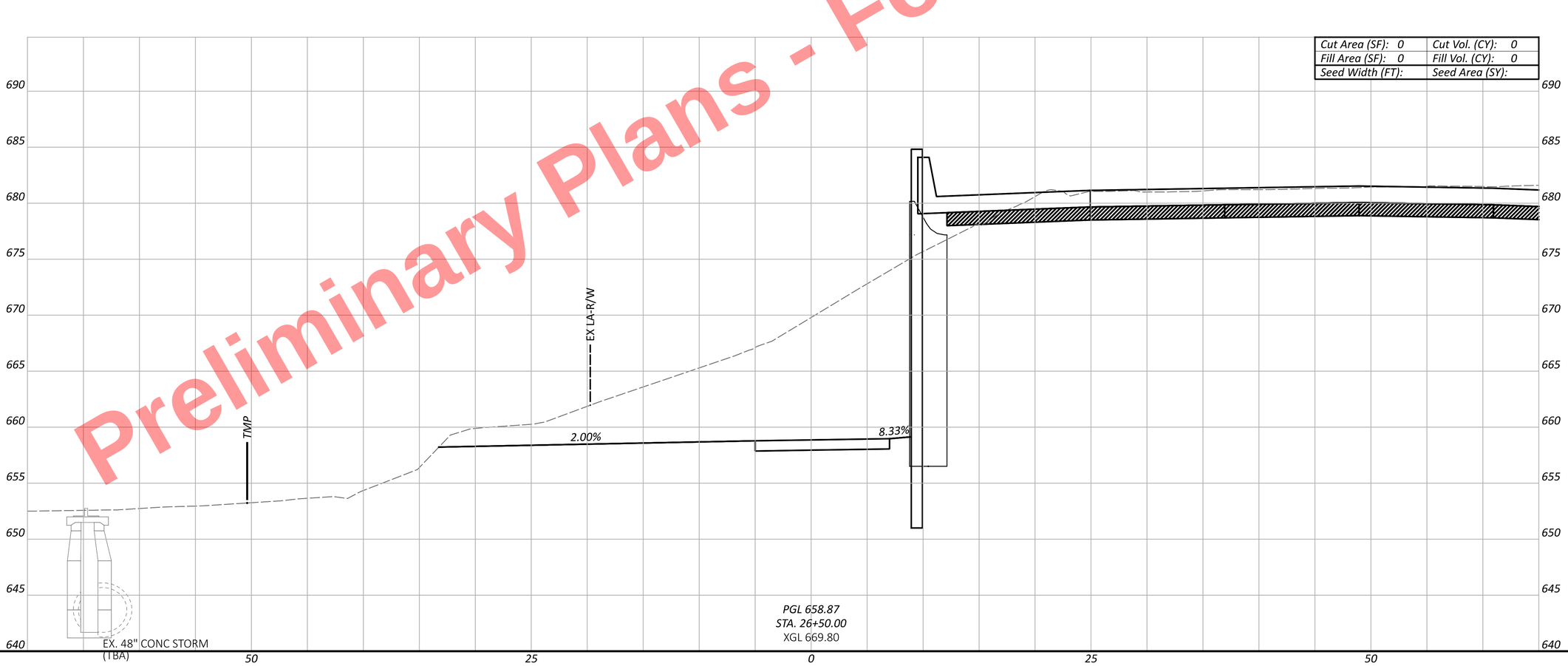
CUY-77-11.43 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




*PGL 658.87*
*STA. 26+50.00*
XGL 669.80

CROSS SECTIONS - MUP WEST
STA. 26+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.563 | TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 27+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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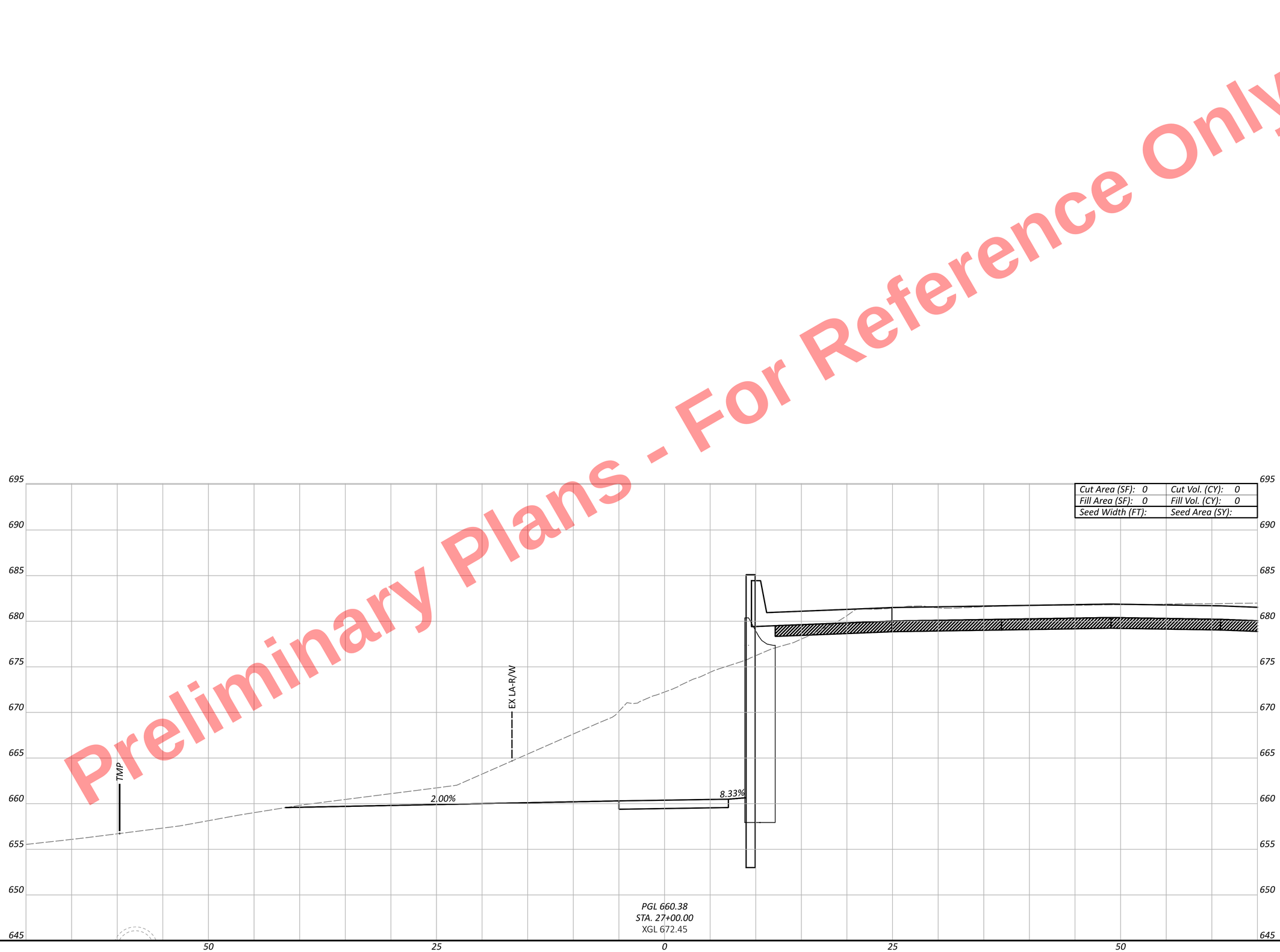
CUY-77-11.43 - PART 1




CROSS SECTIONS - MUP WEST
STA. 27+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.564 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 27+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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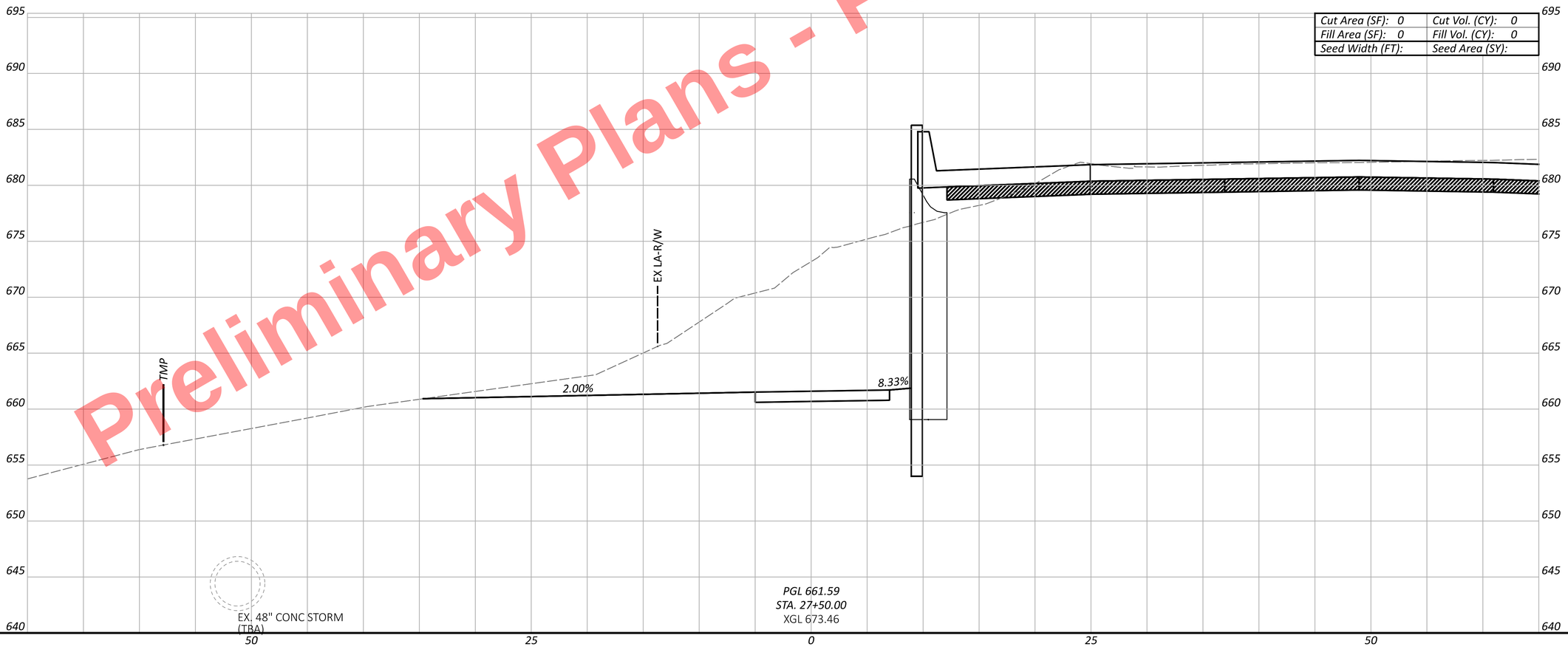
CUY-77-11.43 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




# CROSS SECTIONS - MUP WEST
## STA. 27+50.00

DESIGN AGENCY

DESIGNER: KMM

REVIEWER: AS 11/05/25

PROJECT ID: 105743

SHEET: P.565 TOTAL: P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 28+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.41 - PART 1

| | |
|---|---|
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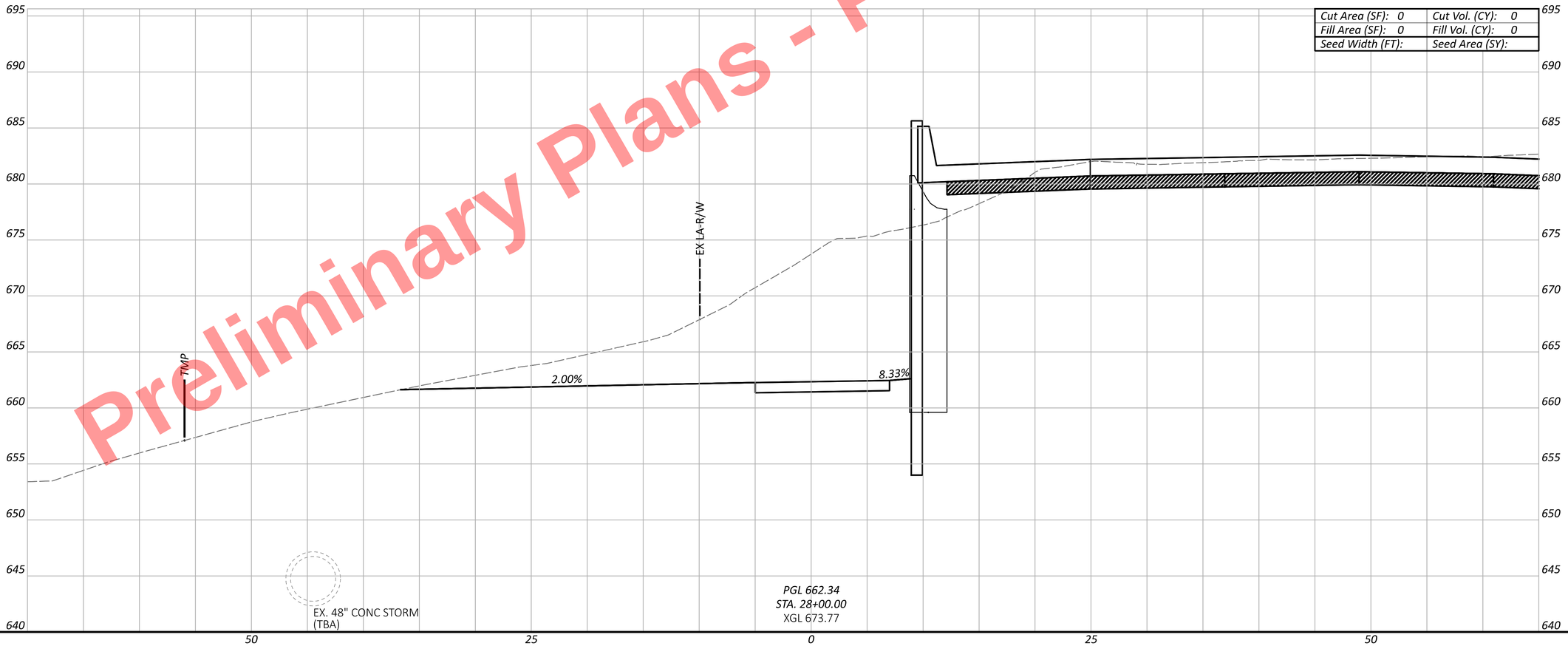
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - MUP WEST
STA. 28+00.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.566 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 28+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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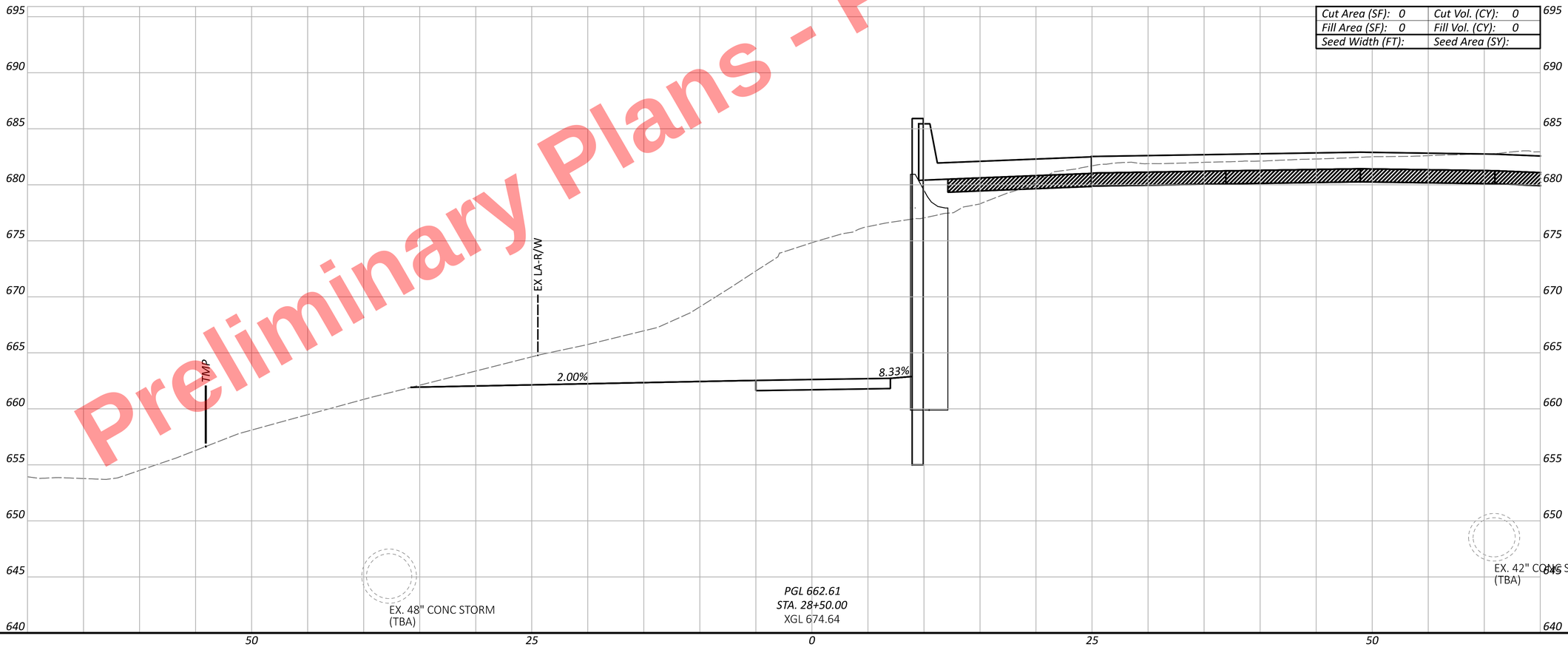
CUY-77-11.41 - PART 1




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

CROSS SECTIONS - MUP WEST
STA. 28+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.567 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 29+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.41 - PART 1

| | |
|---|---|
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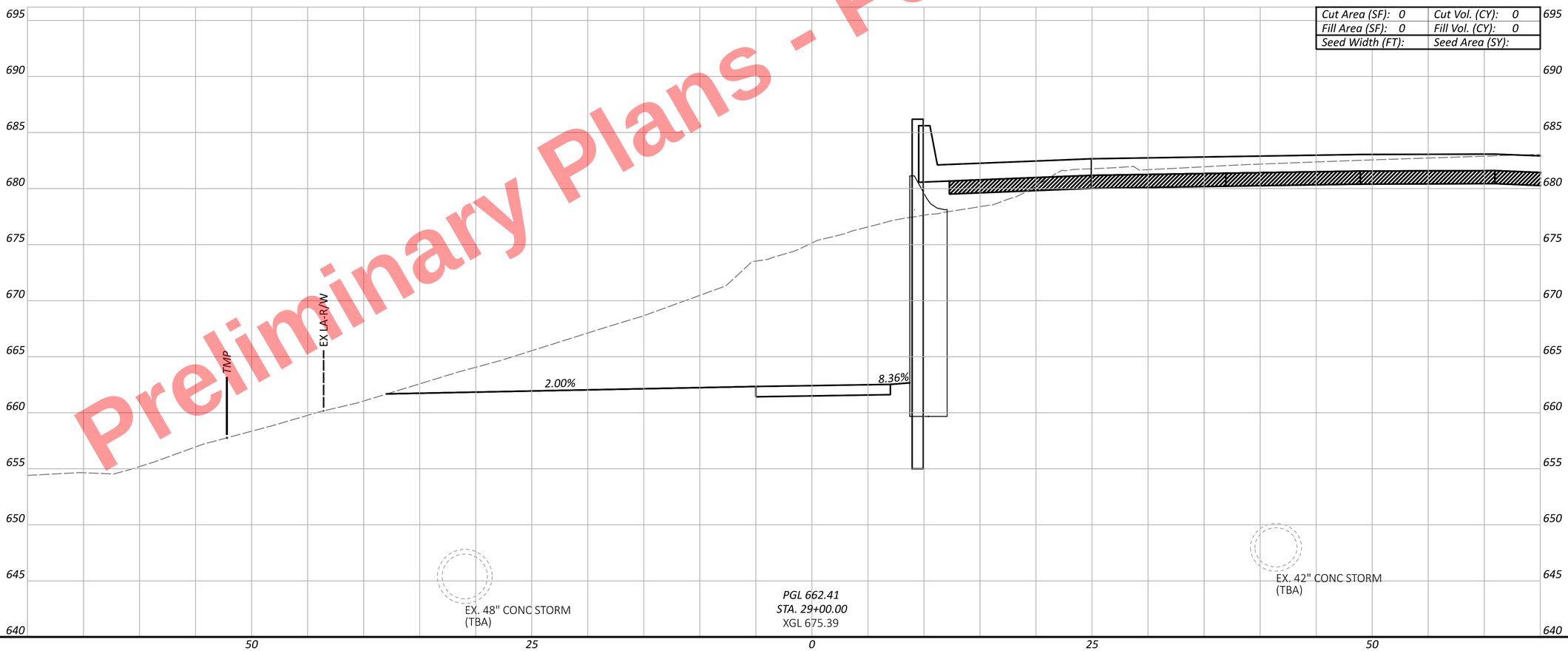
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - MUP WEST
STA. 29+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.568 | TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 29+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

695
690
685
680
675
670
665
660
655
650
645
640

EX LA-R/W

2.00%

8.37%

EX. 48" CONC STORM
(TBA)

*PGL 661.74*
*STA. 29+50.00*
XGL 670.62

EX. 42" CONC STORM
(TBA)

50 25 0 25 50

# CROSS SECTIONS - MUP WEST
# STA. 29+50.00

DESIGN AGENCY

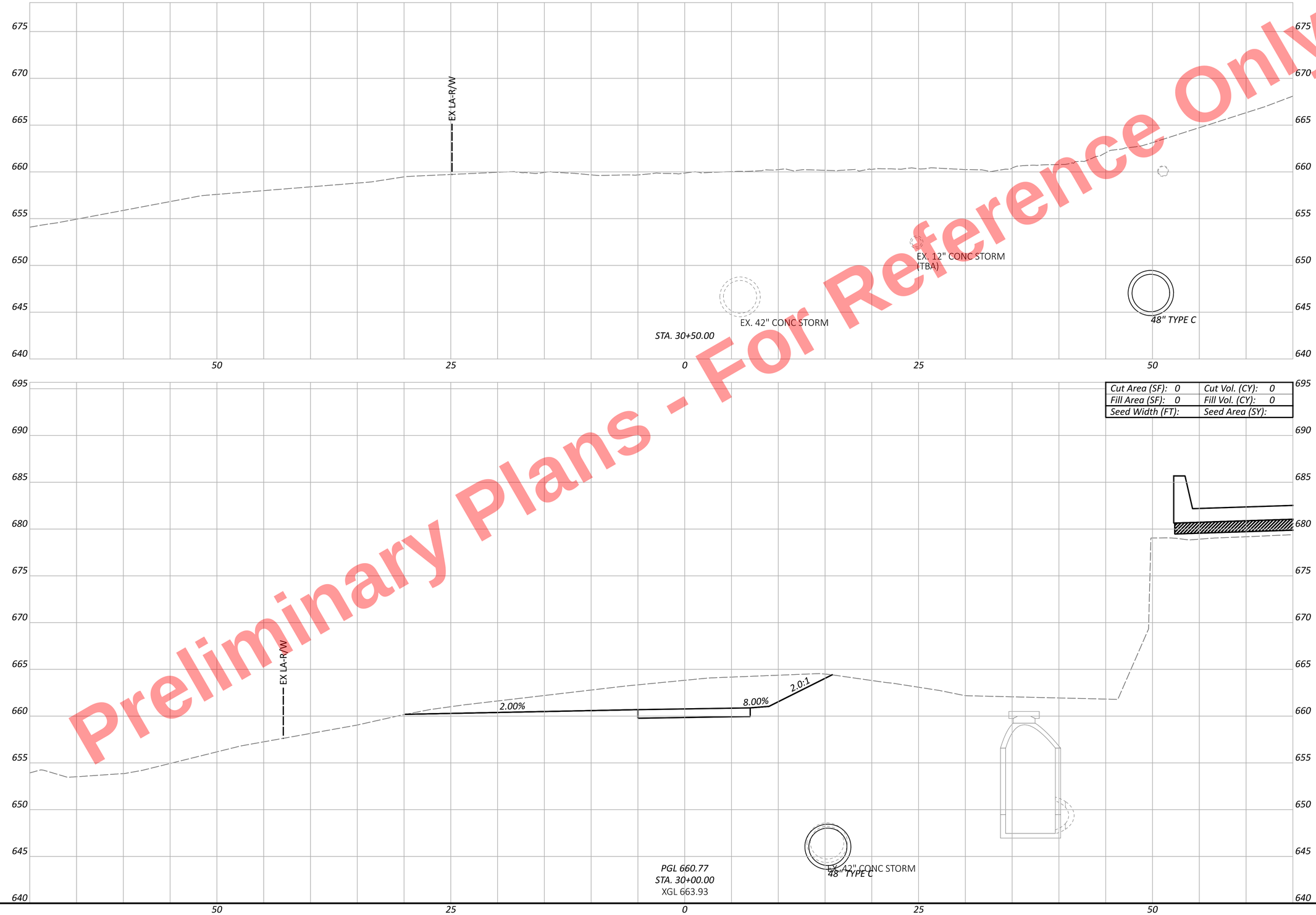
DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.569 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 30+00.00 TO STA. 30+50.00

DESIGN AGENCY

DESIGNER
KMM

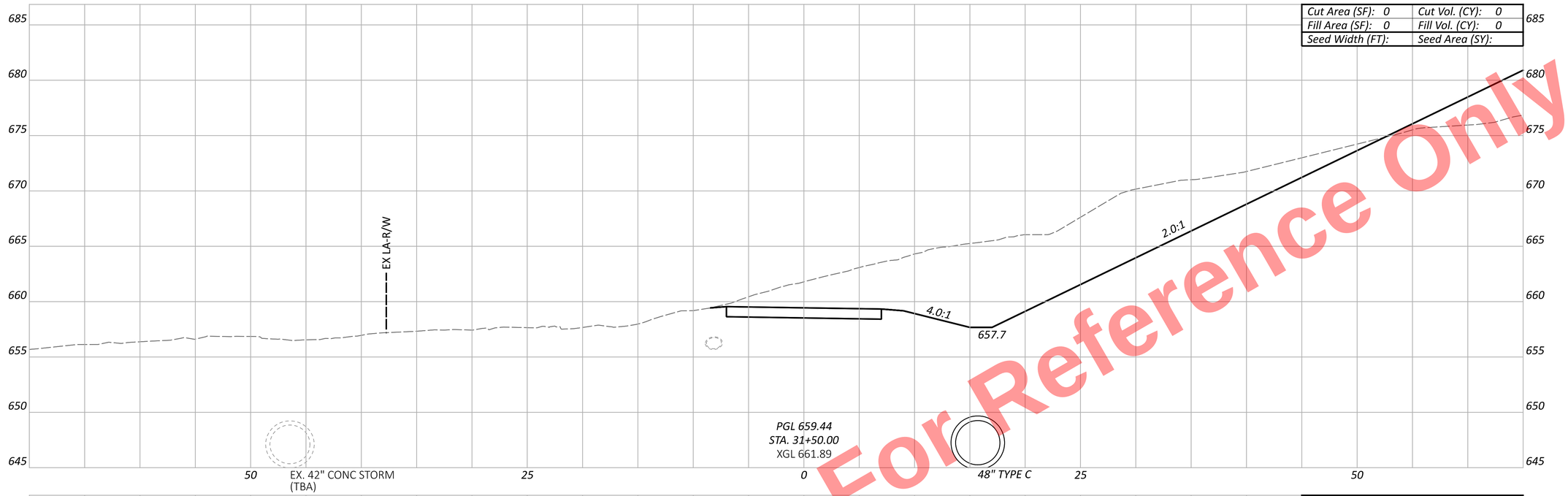
REVIEWER
AS 11/05/25

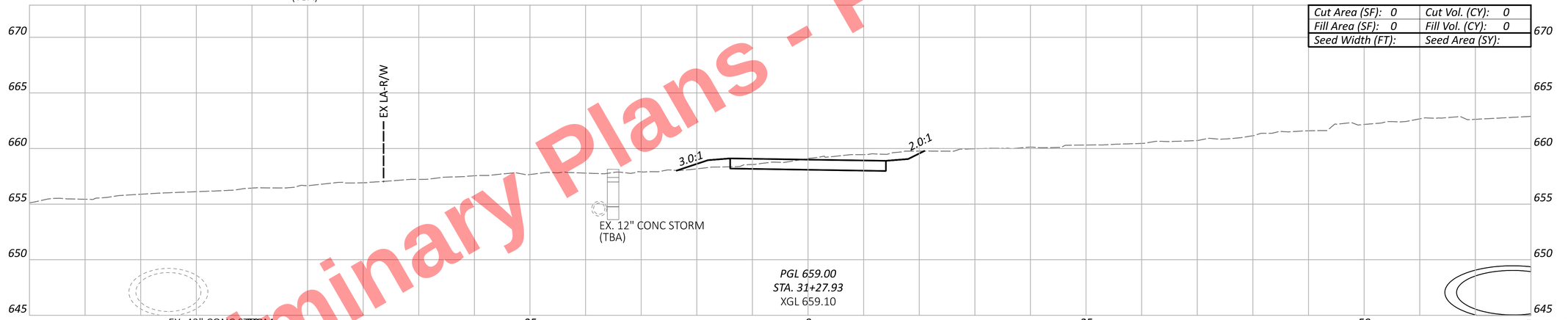
PROJECT ID
105743

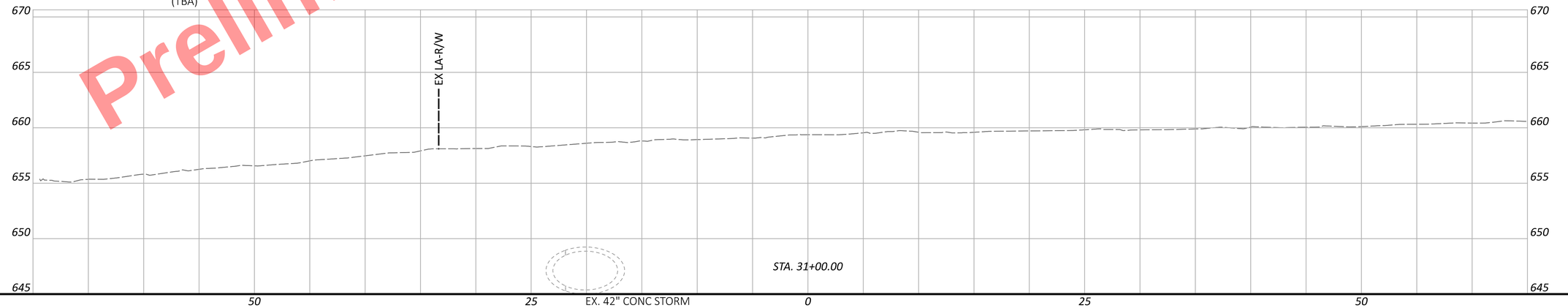
SHEET P.570 TOTAL P.1135

MODEL: CLP_MUP - 30+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:44 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 31+00.00 TO STA. 31+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.571 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 31+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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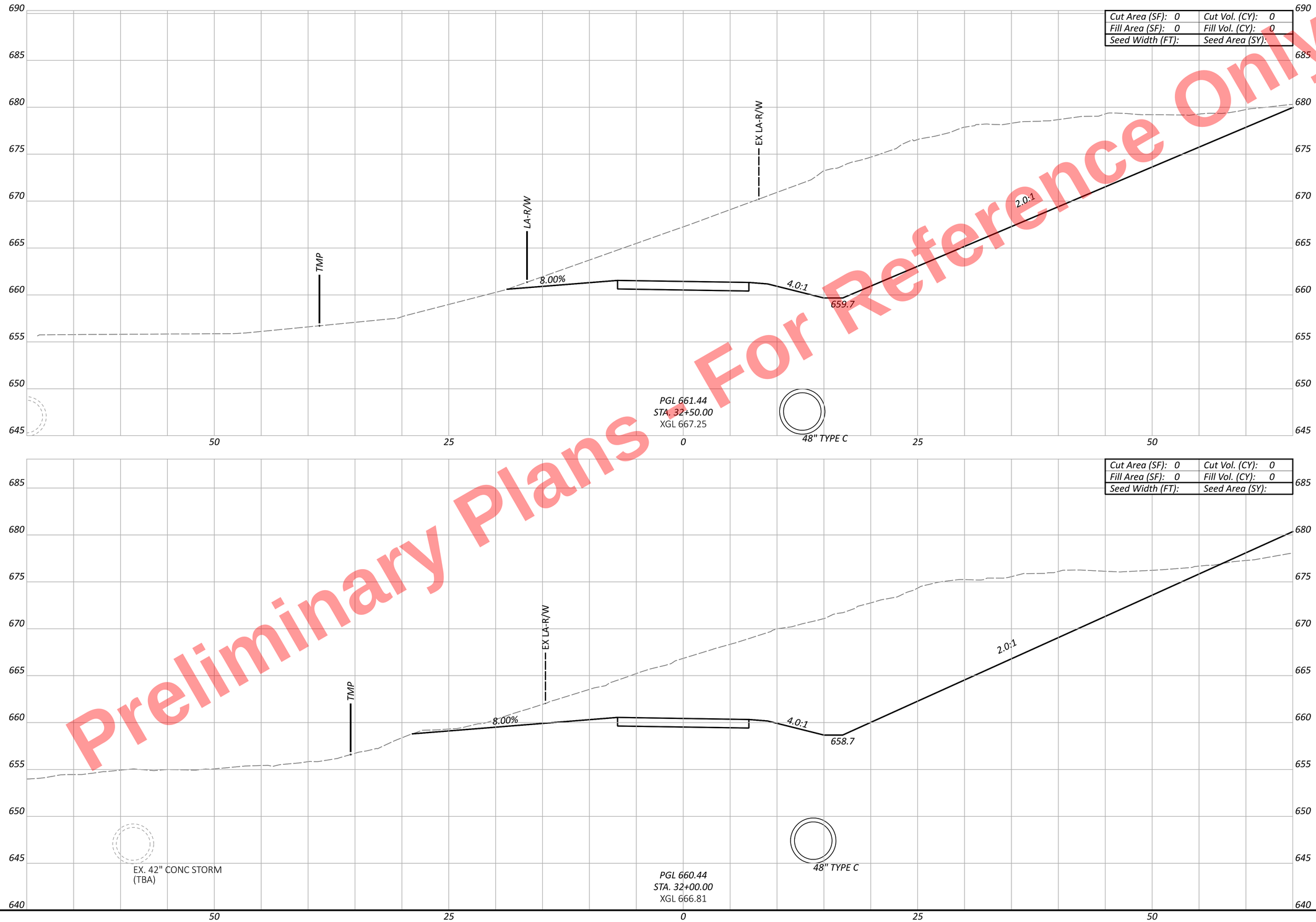
Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 32+00.00 TO STA. 32+50.00

CUY-77-11.41 - PART 1

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.572 TOTAL P.1135

MODEL: CLP_MUP - 32+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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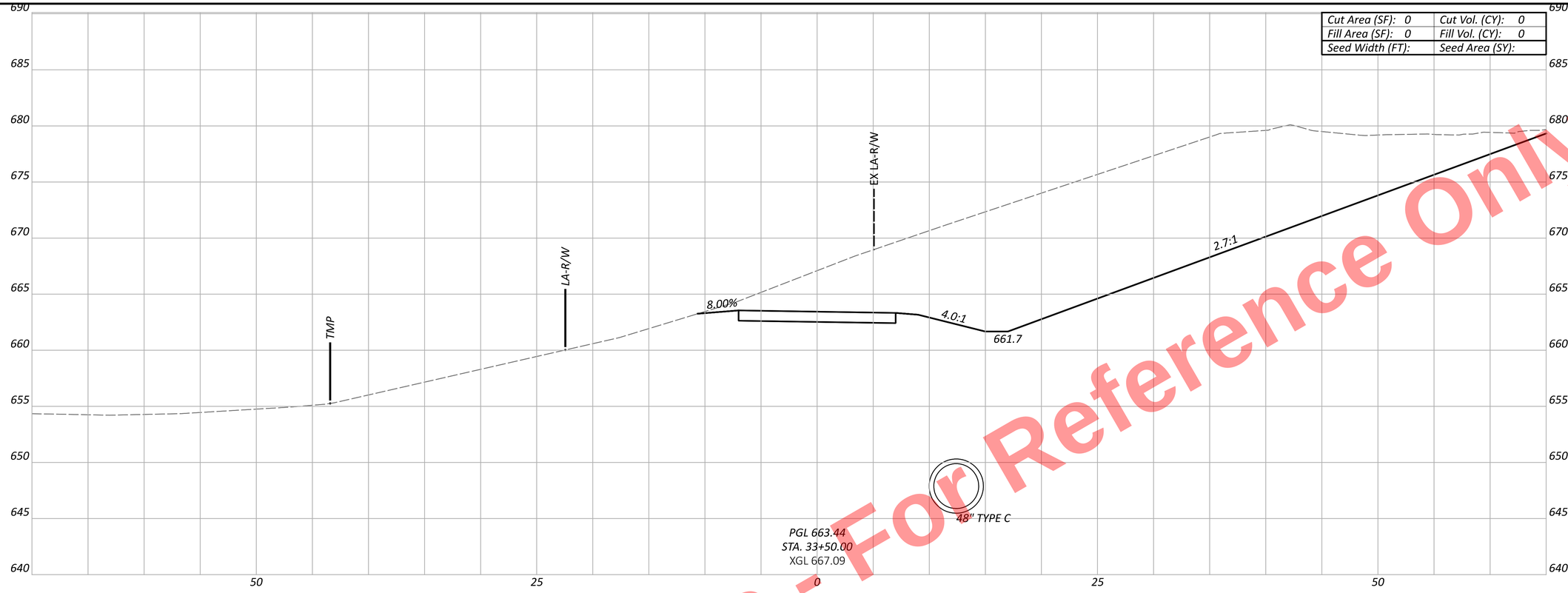
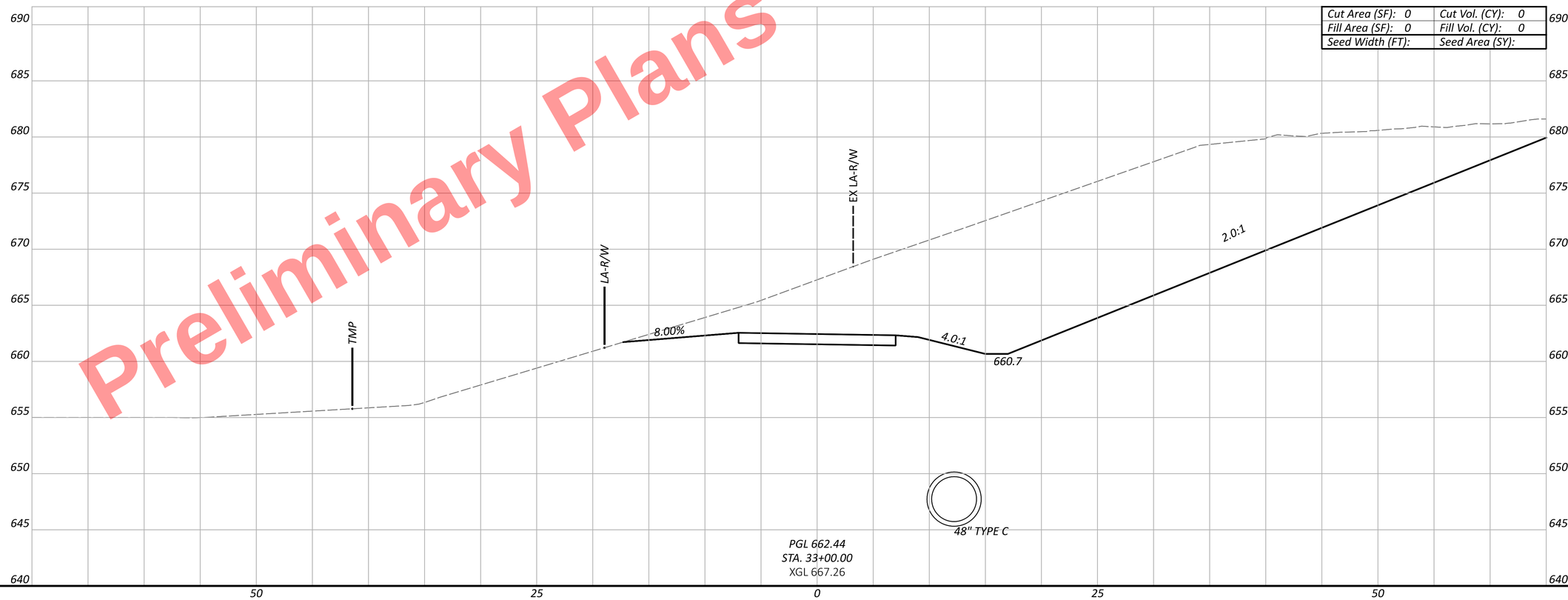
Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 33+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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# CROSS SECTIONS - MUP WEST
# STA. 33+00.00 TO STA. 33+50.00

DESIGN AGENCY

DESIGNER
KMM

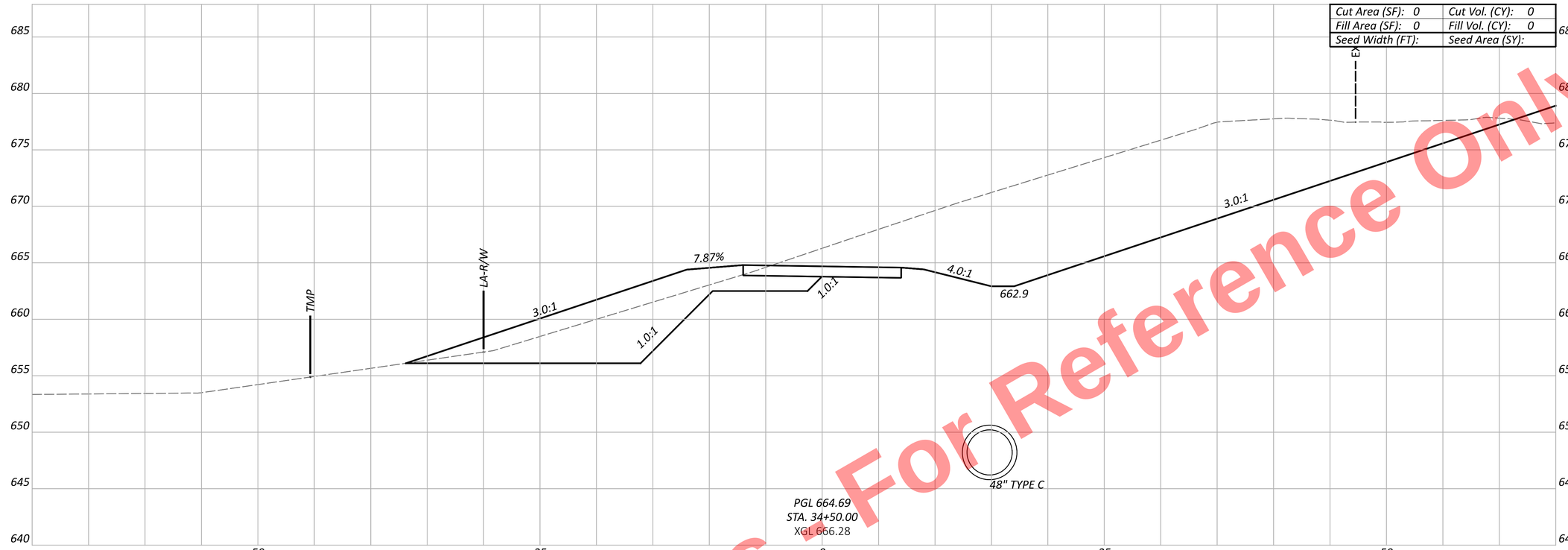
REVIEWER
AS 11/05/25

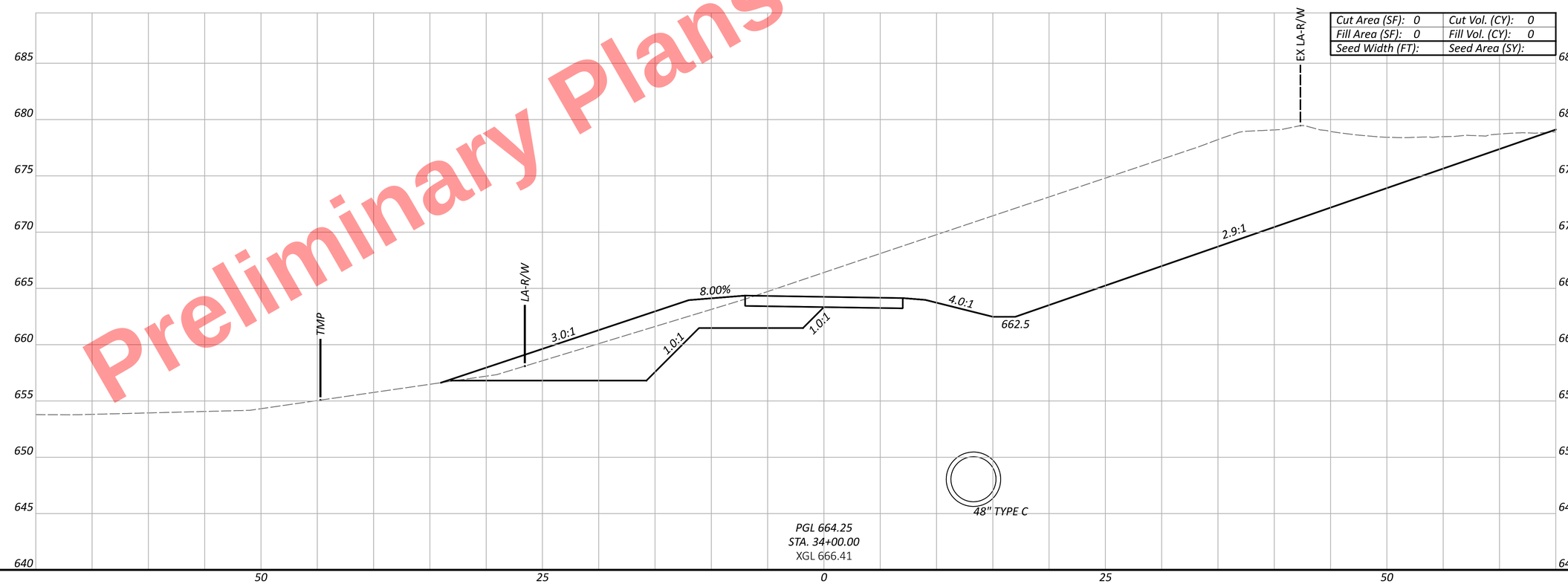
PROJECT ID
105743

SHEET P.573 TOTAL P.1135

MODEL: CLP_MUP - 34+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1




Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 34+00.00 TO STA. 34+50.00

DESIGN AGENCY

DESIGNER KMM

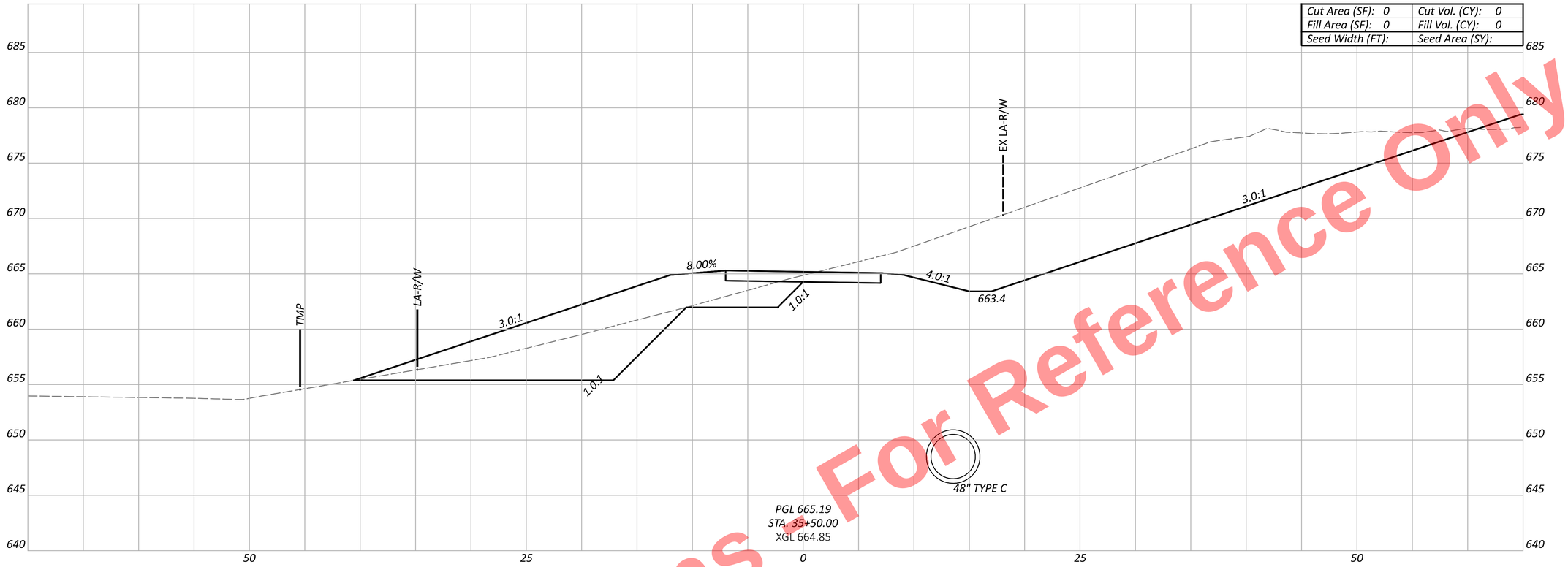
REVIEWER AS 11/05/25

PROJECT ID 105743

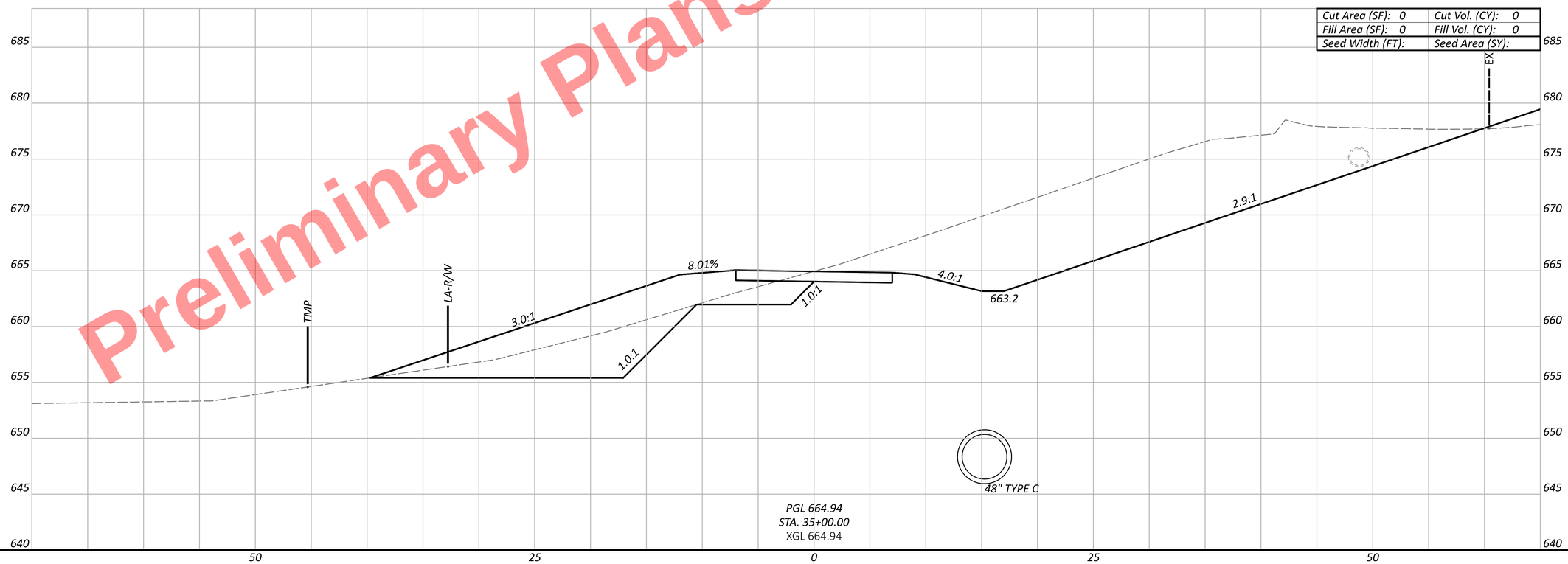
SHEET P.574 TOTAL P.1135

Preliminary Plans For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - MUP WEST
STA. 35+00.00 TO STA. 35+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

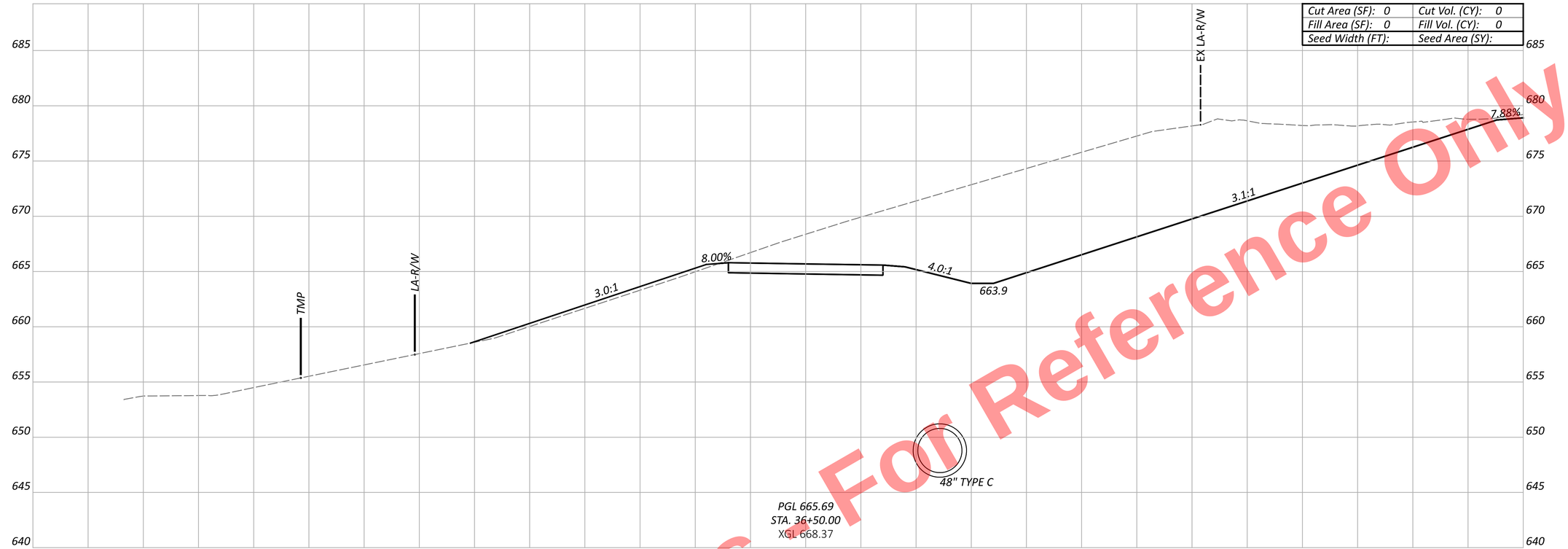
SHEET P.575 TOTAL P.1135

CUY-77-11.41 - PART 1

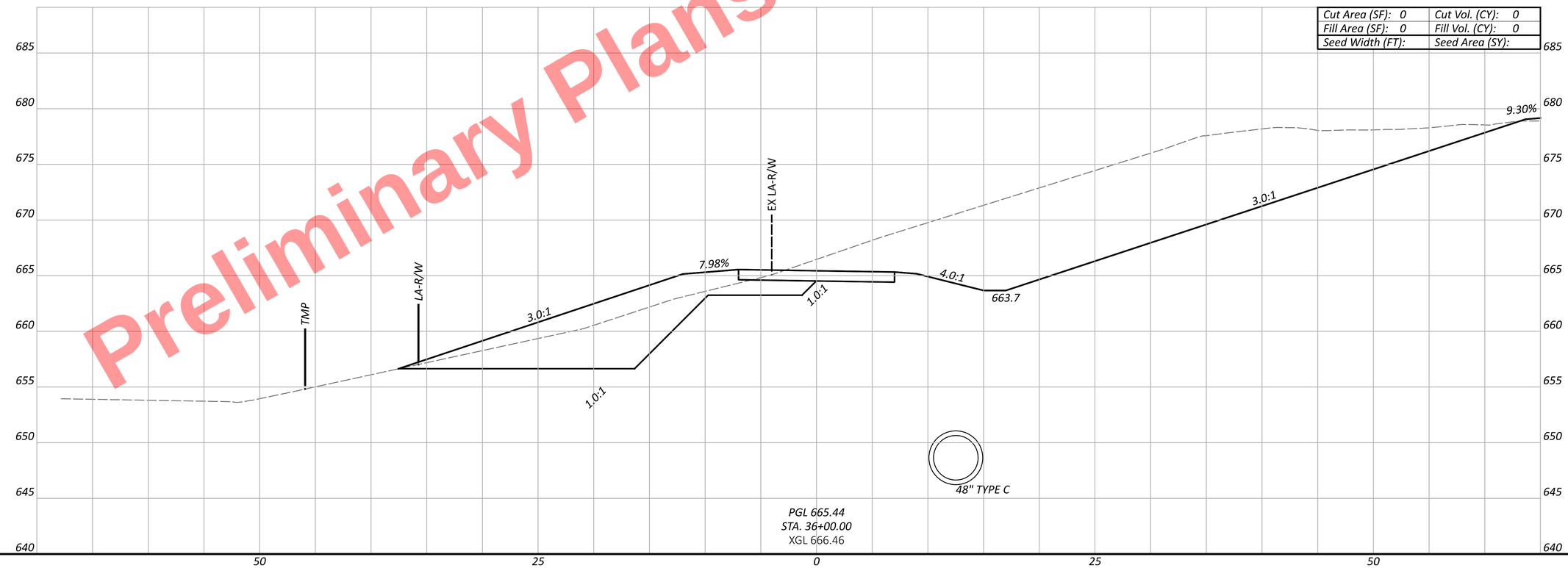
MODEL: CLP_MUP - 35+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CROSS SECTIONS - MUP WEST
STA. 36+00.00 TO STA. 36+50.00

CUY-77-11.41 - PART 1

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.576 TOTAL P.1135

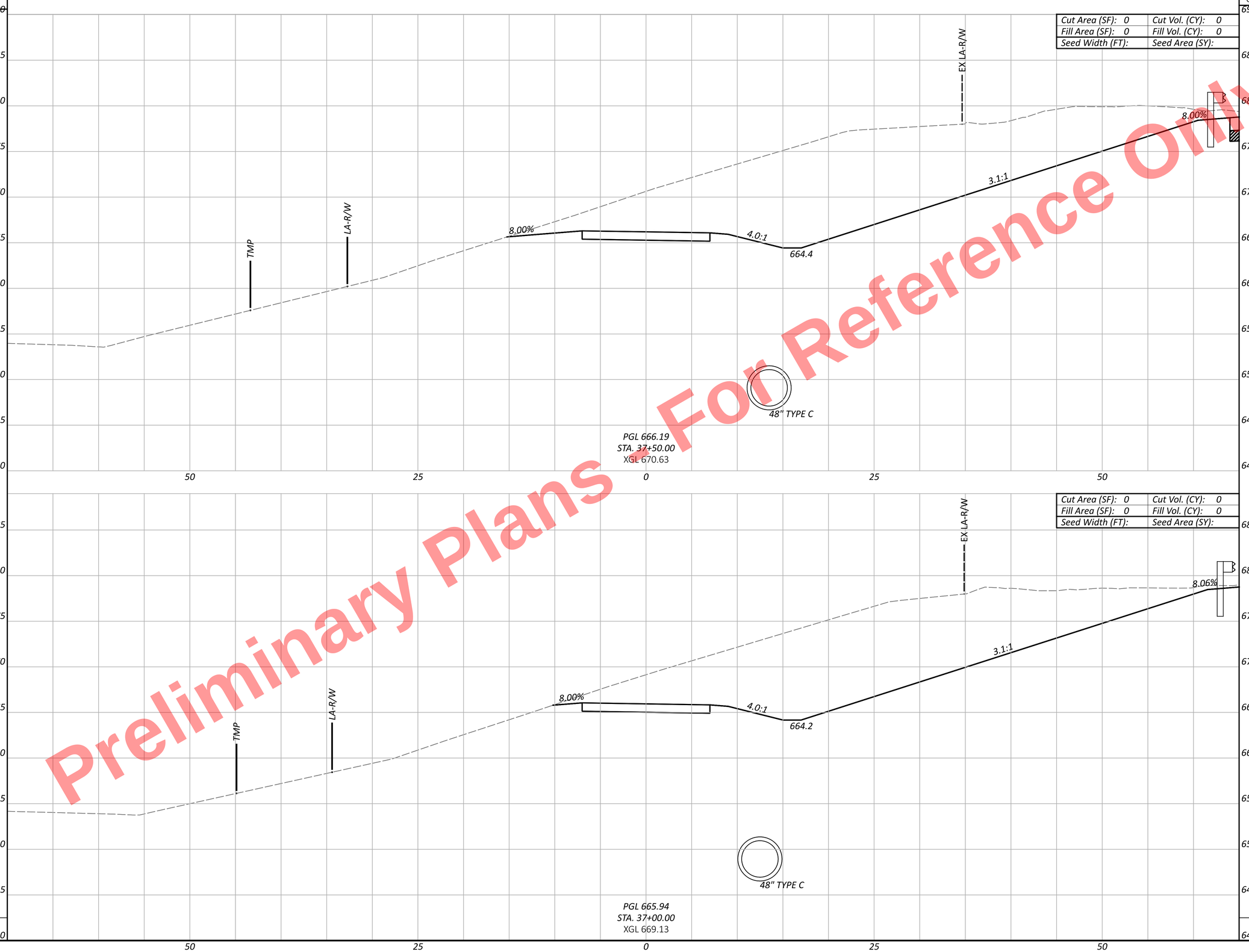
MODEL: CLP_MUP - 36+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans For Reference Only

| SEEDING | |
|---|---|
| END WIDTH | SQ. YDS. |

| END AREA | | VOLUME | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

SHEET TOTAL

SHEET TOTALS

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 37+00.00 TO STA. 37+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

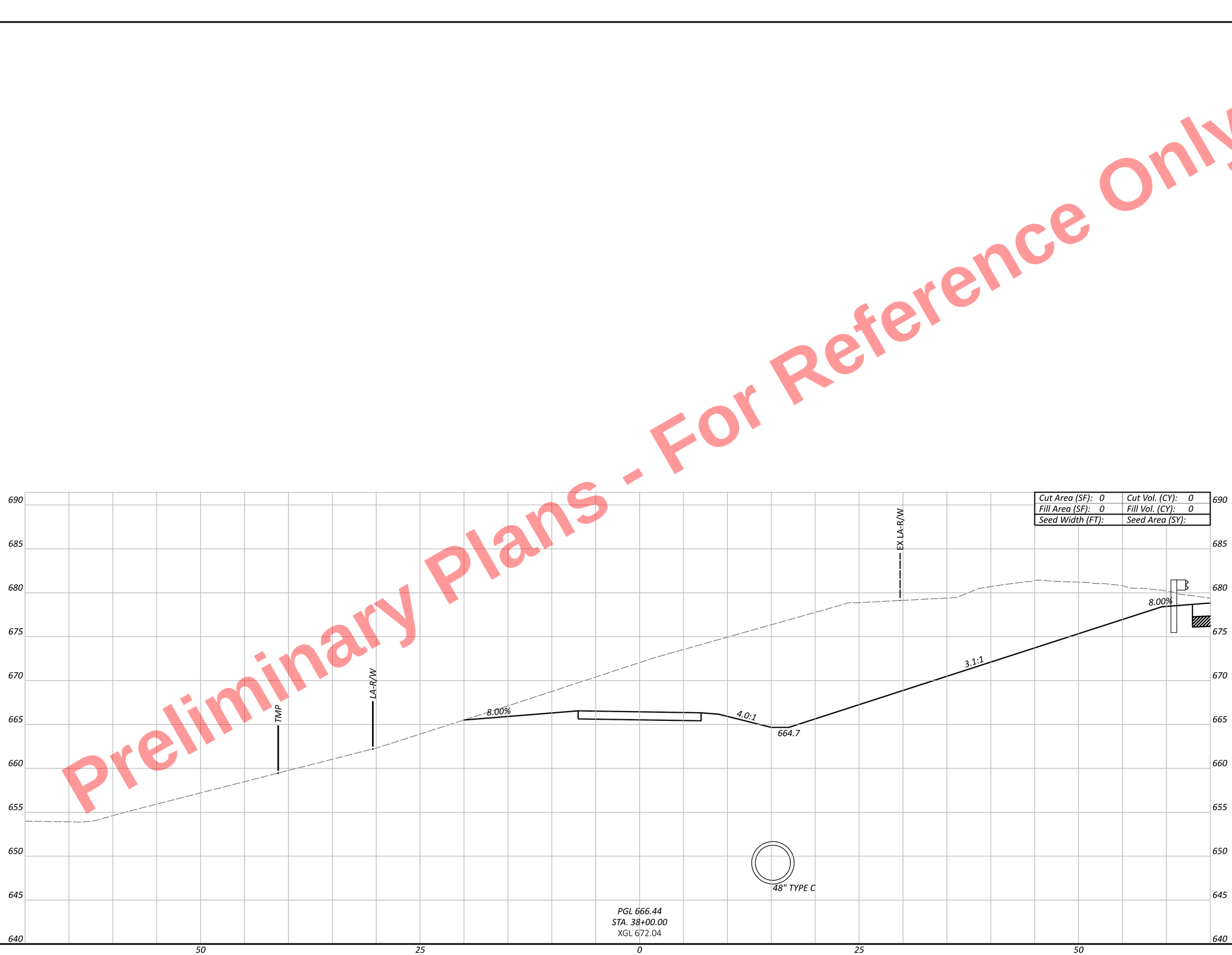
SHEET P.577 TOTAL P.1135

MODEL: CLP_MUP - 37+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 38+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1




CROSS SECTIONS - MUP WEST
STA. 38+00.00

DESIGN AGENCY

DESIGNER
KMM

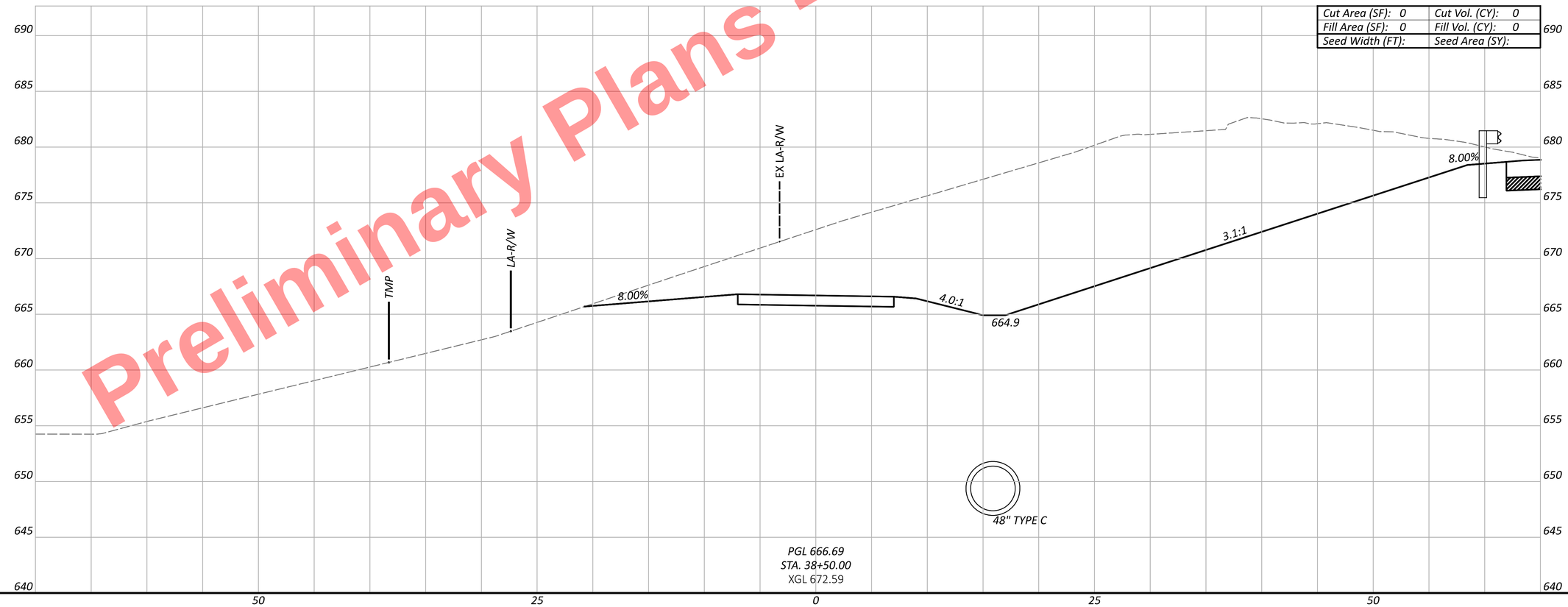
REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.578 TOTAL P.1135

MODEL: CLP_MUP - 38+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 38+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.579 | TOTAL P.1135

MODEL: CLP_MUP - 39+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:56 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690
685
680
675
670
665
660
655
650
645
640

EX LA-R/W

8.00%

4.0:1

665.2

3.1:1

8.00%

48" TYPE C

PGL 666.94
STA. 39+00.00
XGL 672.18

50 25 0 25 50

# CROSS SECTIONS - MUP WEST
STA. 39+00.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

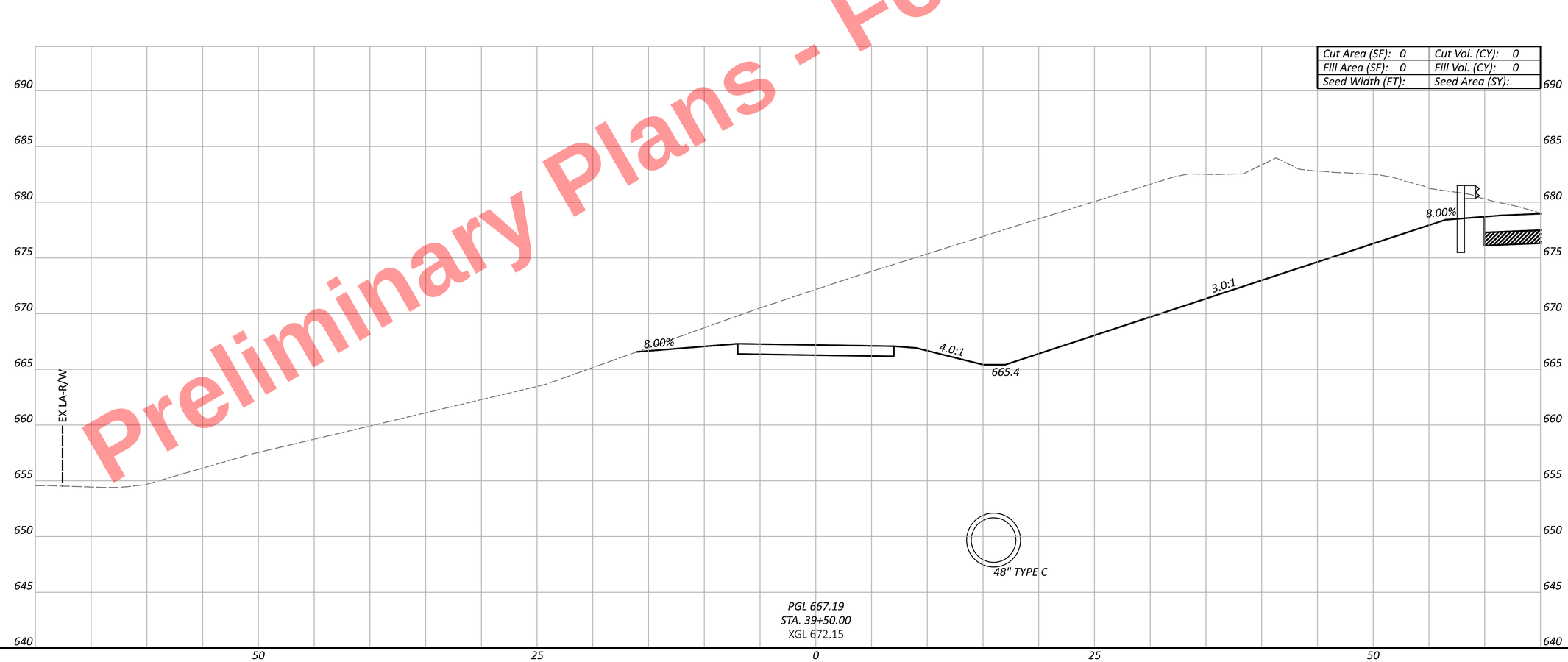
PROJECT ID
105743

SHEET P.580 TOTAL P.1135

MODEL: CLP_MUP - 39+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1




CROSS SECTIONS - MUP WEST
STA. 39+50.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

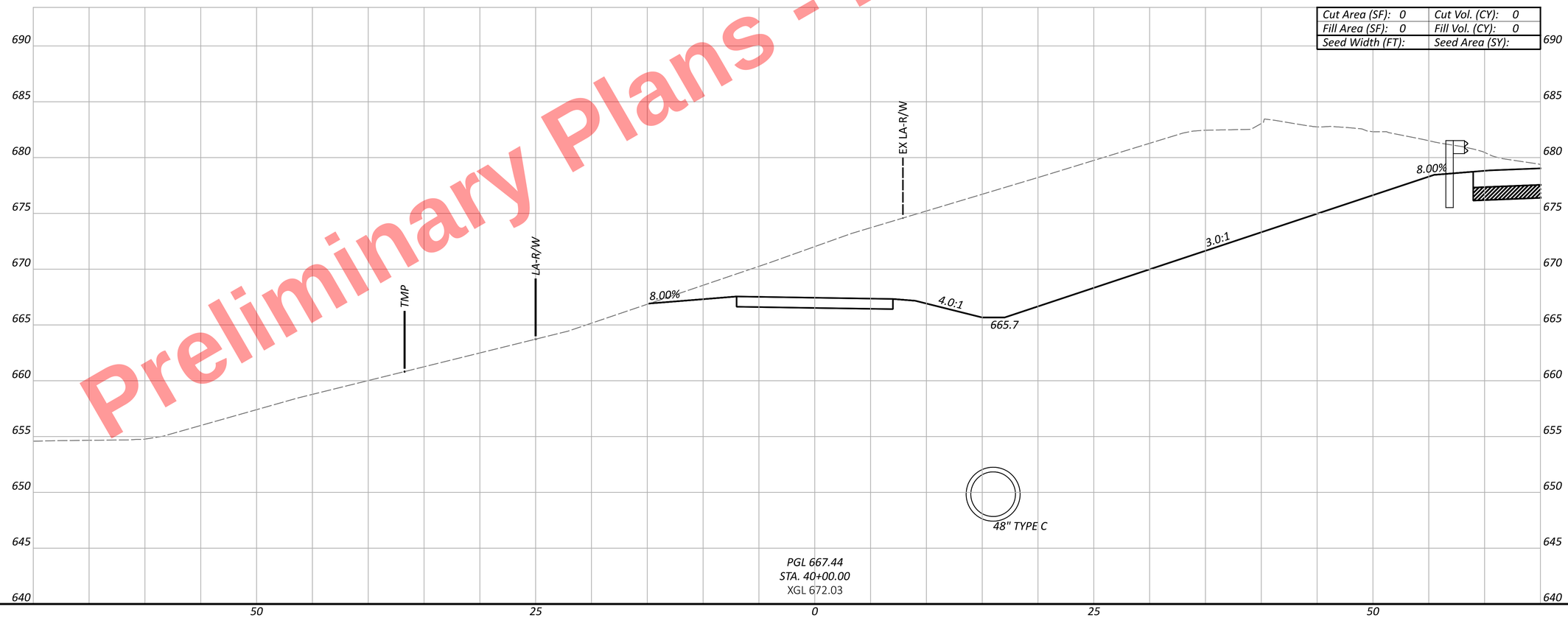
SHEET P.581 | TOTAL P.1135

MODEL: CLP_MUP - 40+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:58 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




PGL 667.44
STA. 40+00.00
XGL 672.03

CROSS SECTIONS - MUP WEST
STA. 40+00.00

DESIGN AGENCY

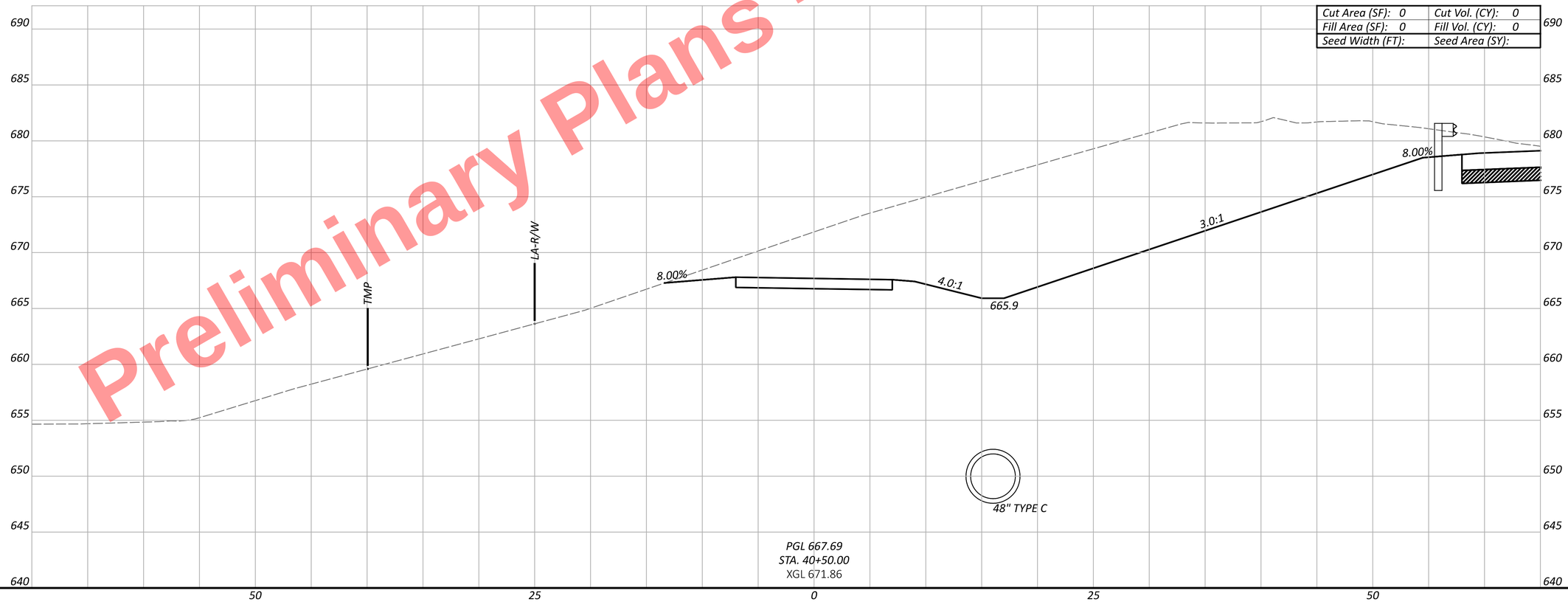
DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.582 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 40+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:29:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




# CROSS SECTIONS - MUP WEST
STA.40+50.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

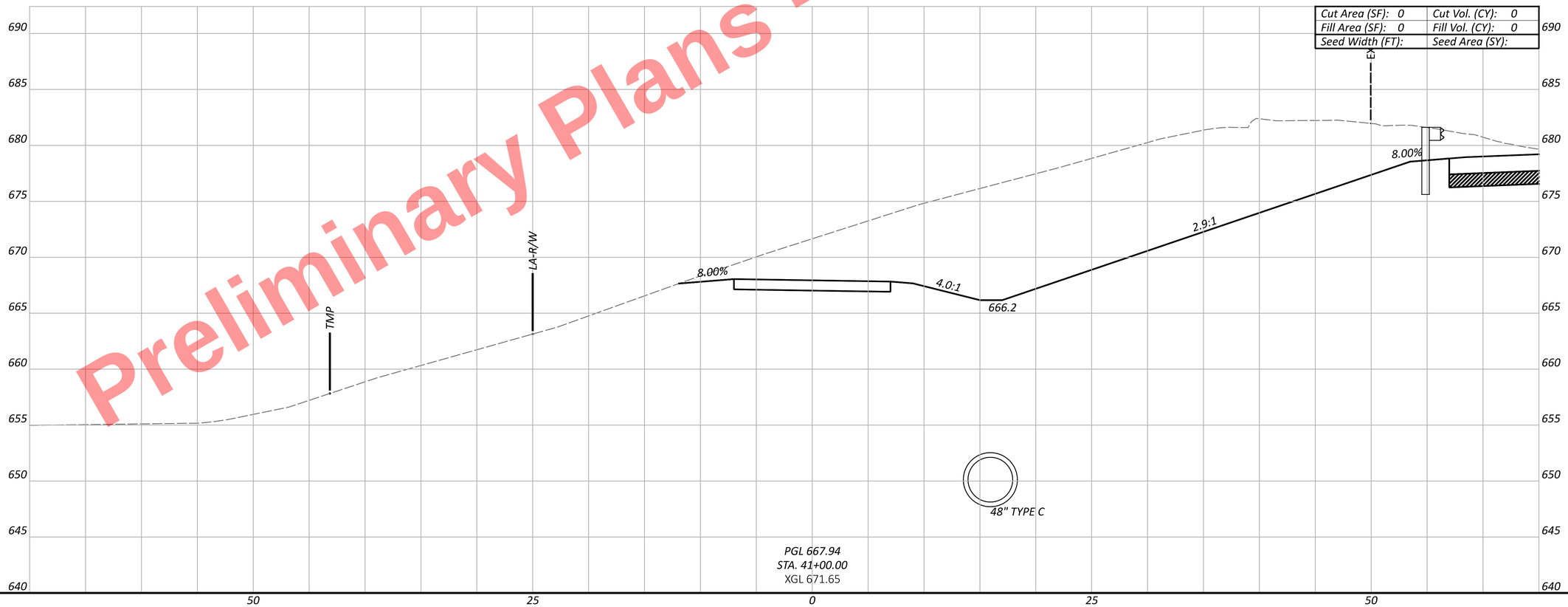
PROJECT ID 105743

SHEET P.583 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 41+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1




CROSS SECTIONS - MUP WEST
STA. 41+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.584 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 41+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690
685
680
675
670
665
660
655
650
645
640

50 25 0 25 50

TMP
LA-R/W
EX LA-R/W
3.80%
4.0:1
666.4
2.9:1
8.00%
48" TYPE C

PGL 668.19
STA. 41+50.00
XGL 671.21

# CROSS SECTIONS - MUP WEST
STA. 41+50.00

DESIGN AGENCY

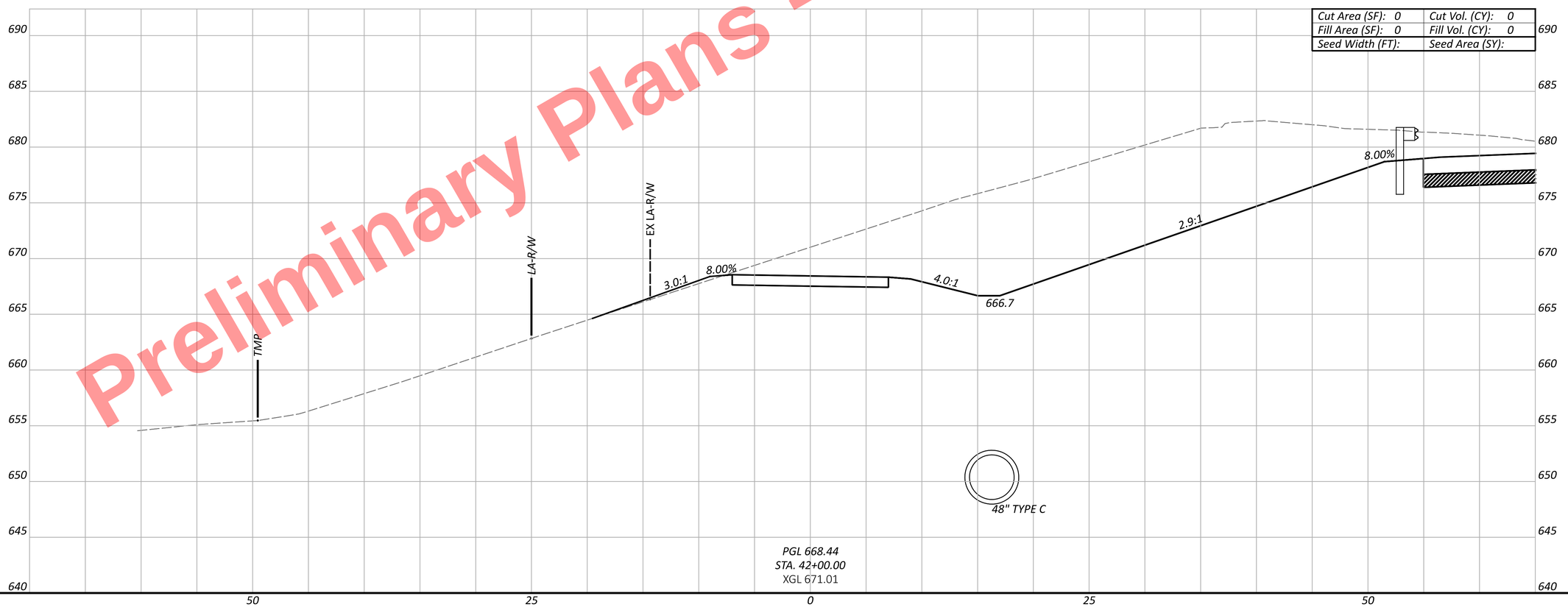
DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.585 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 42+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




# CROSS SECTIONS - MUP WEST
STA. 42+00.00

DESIGN AGENCY

DESIGNER: KMM

REVIEWER: AS 11/05/25

PROJECT ID: 105743

SHEET: P.586 TOTAL: P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 42+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |

690
685
680
675
670
665
660
655
650
645
640

50 25 0 25 50

EX LA-R/W
LA-R/W
TMP
3.0:1
1.0:1
1.0:1
4.0:1
666.9
2.8:1
8.00%
48" TYPE C

PGL 668.69
STA. 42+50.00
XGL 670.81

# CROSS SECTIONS - MUP WEST
STA. 42+50.00

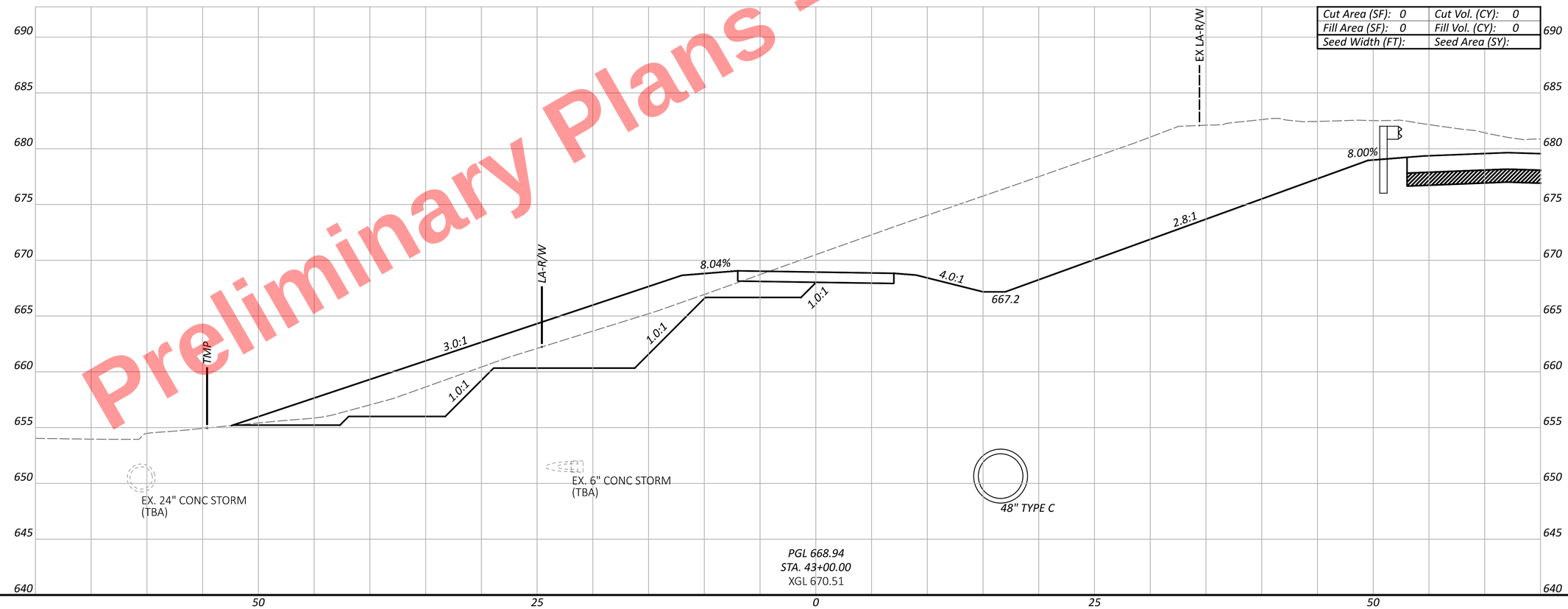
DESIGN AGENCY

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.587 TOTAL P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 43+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1




# CROSS SECTIONS - MUP WEST
STA. 43+00.00

DESIGN AGENCY

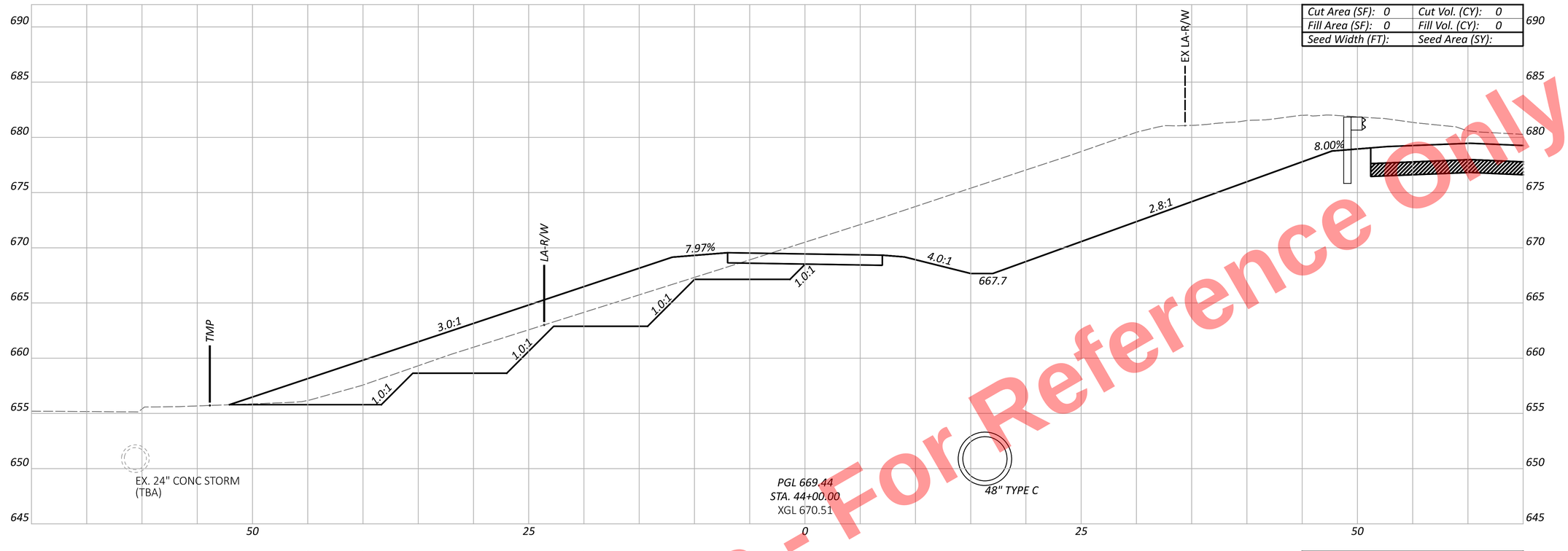
DESIGNER
KMM

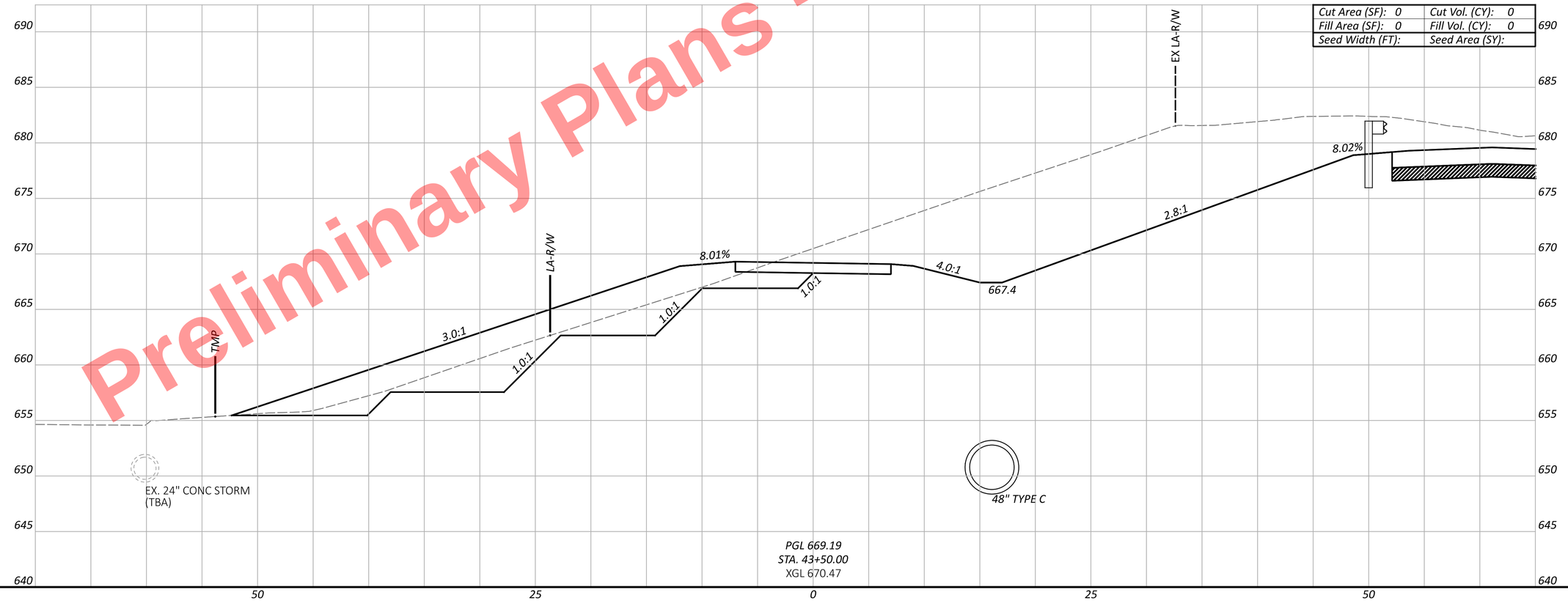
REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.588 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 43+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 43+50.00 TO STA. 44+00.00

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.589 TOTAL P.1135

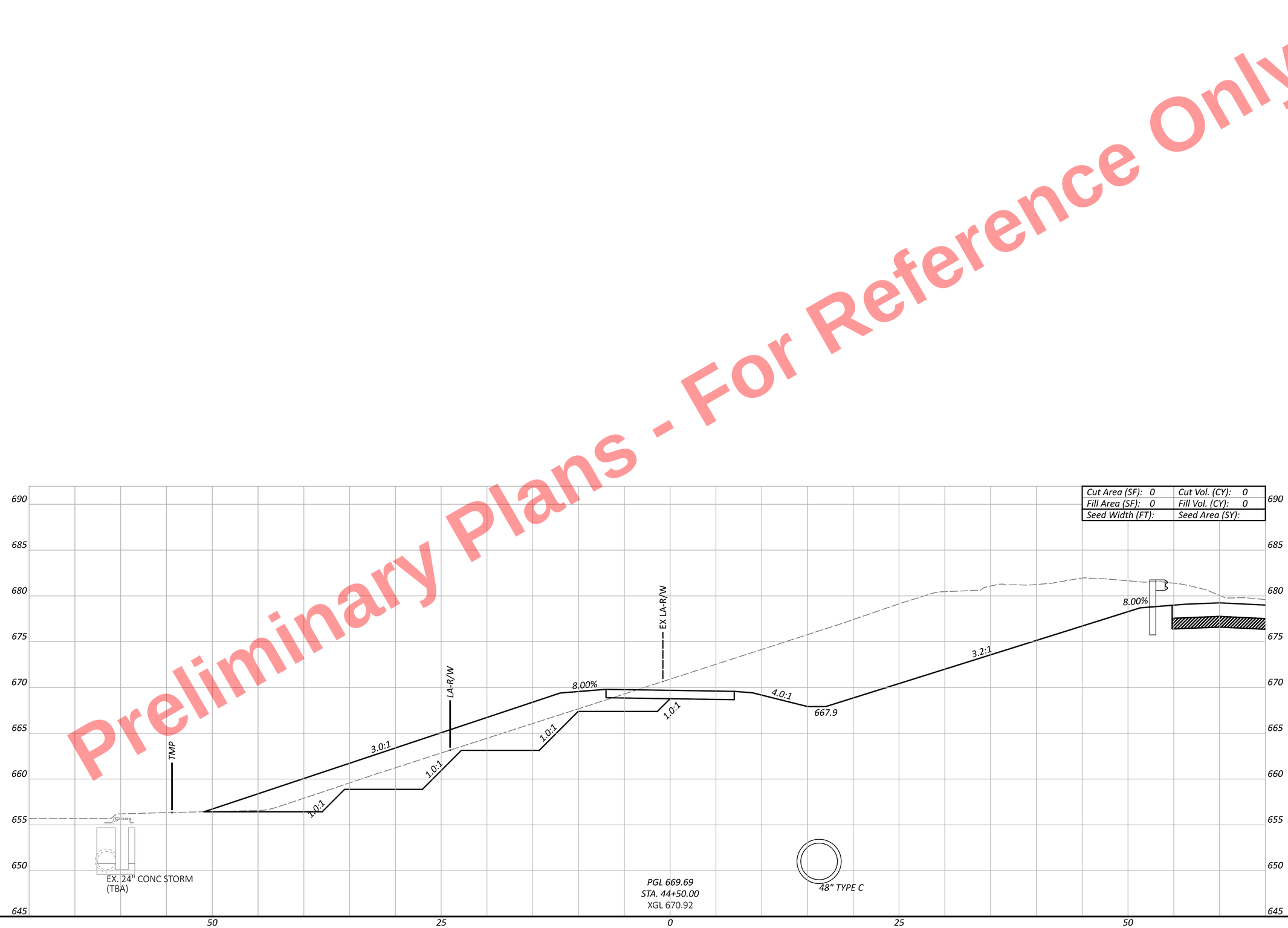
Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 44+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 44+50.00

| | |
|---|---|
| Cut Area (SF): 0 | Cut Vol. (CY): 0 |
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.590 TOTAL P.1135

MODEL: CLP_MUP - 45+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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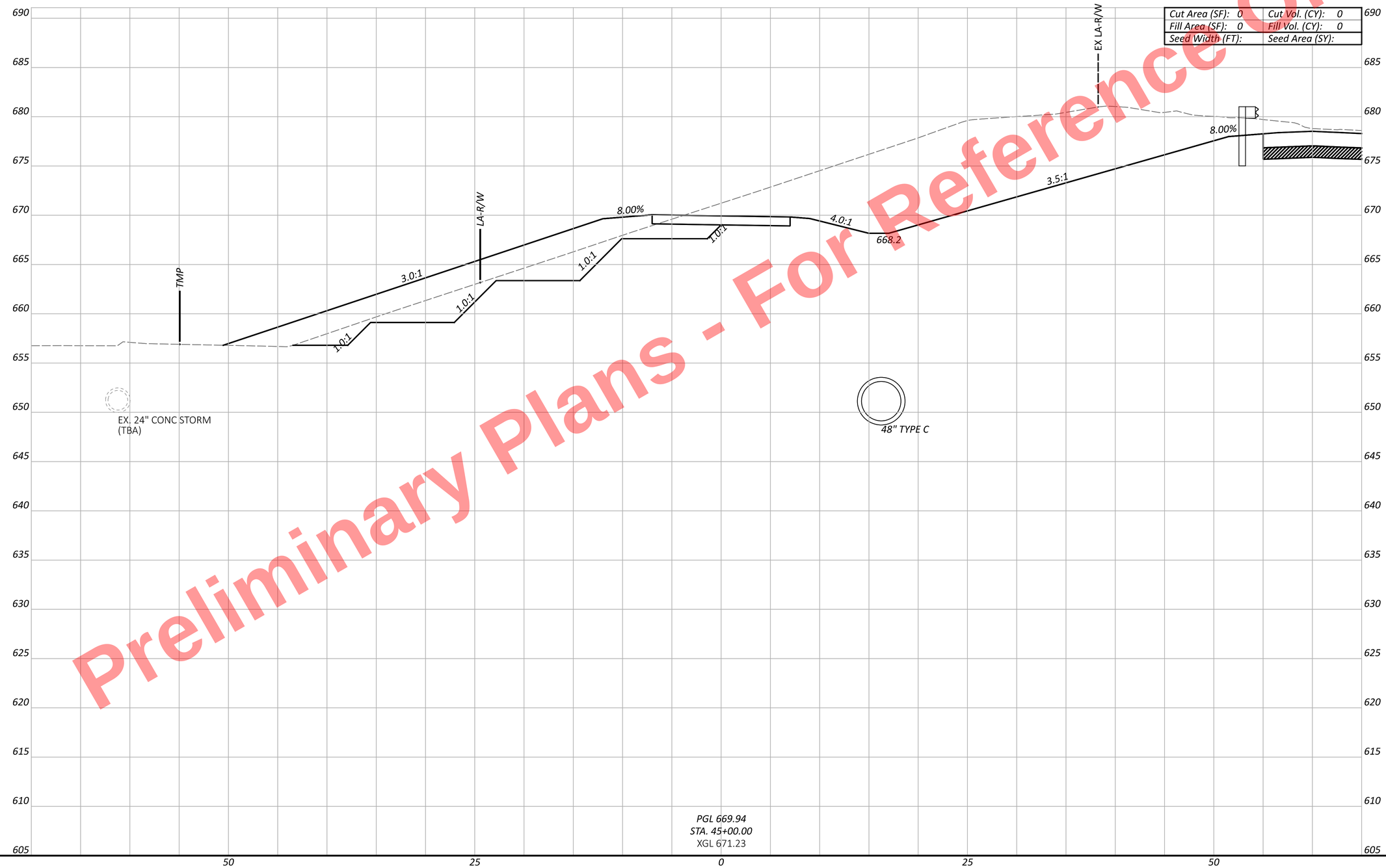
CUY-77-11.41 - PART 1




Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 45+00.00

DESIGN AGENCY

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.591 TOTAL P.1135

MODEL: CLP_MUP - 45+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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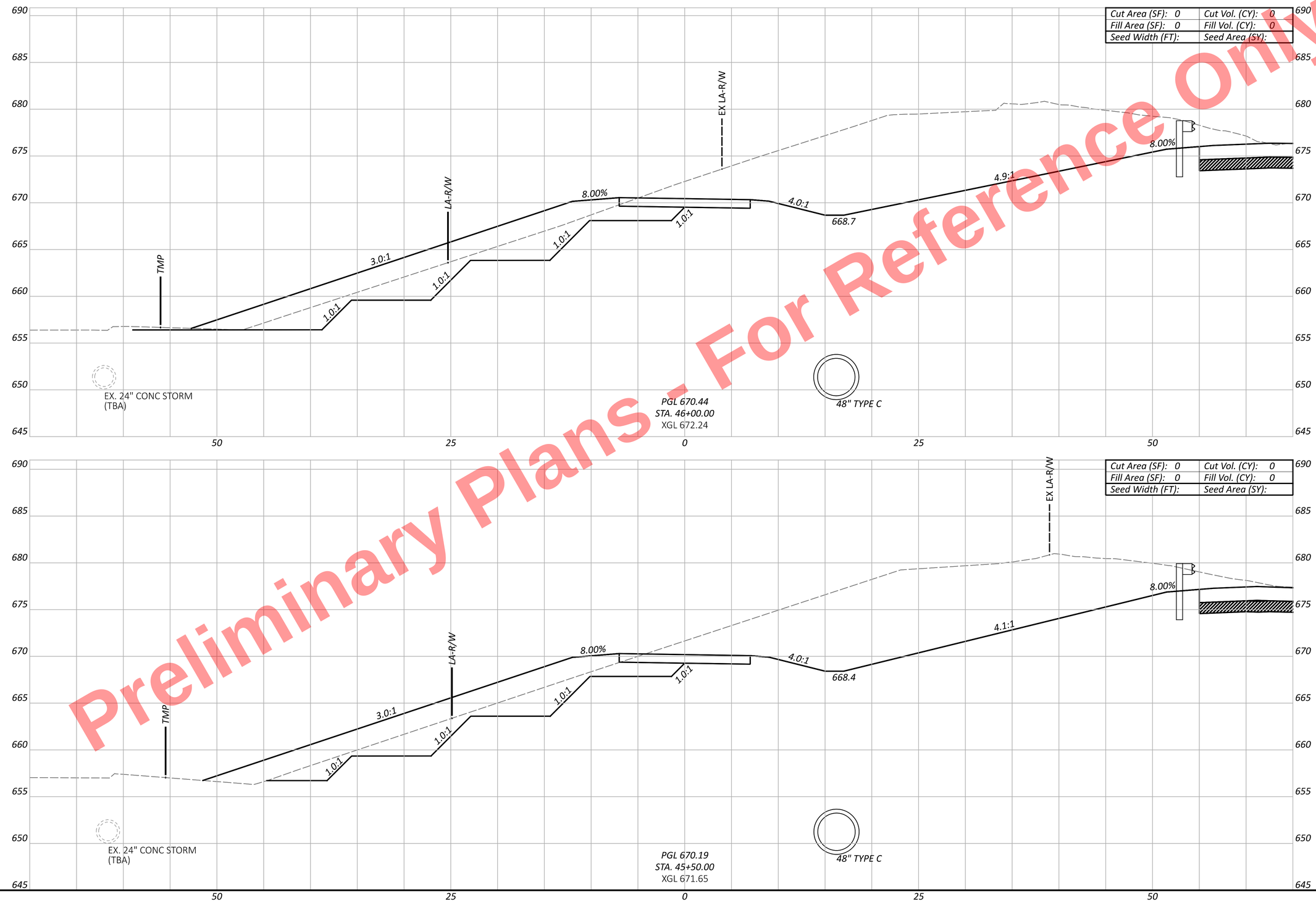
CUY-77-11.41 - PART 1

Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA.45+50.00 TO STA. 46+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.592 TOTAL P.1135

MODEL: CLP_MUP - 46+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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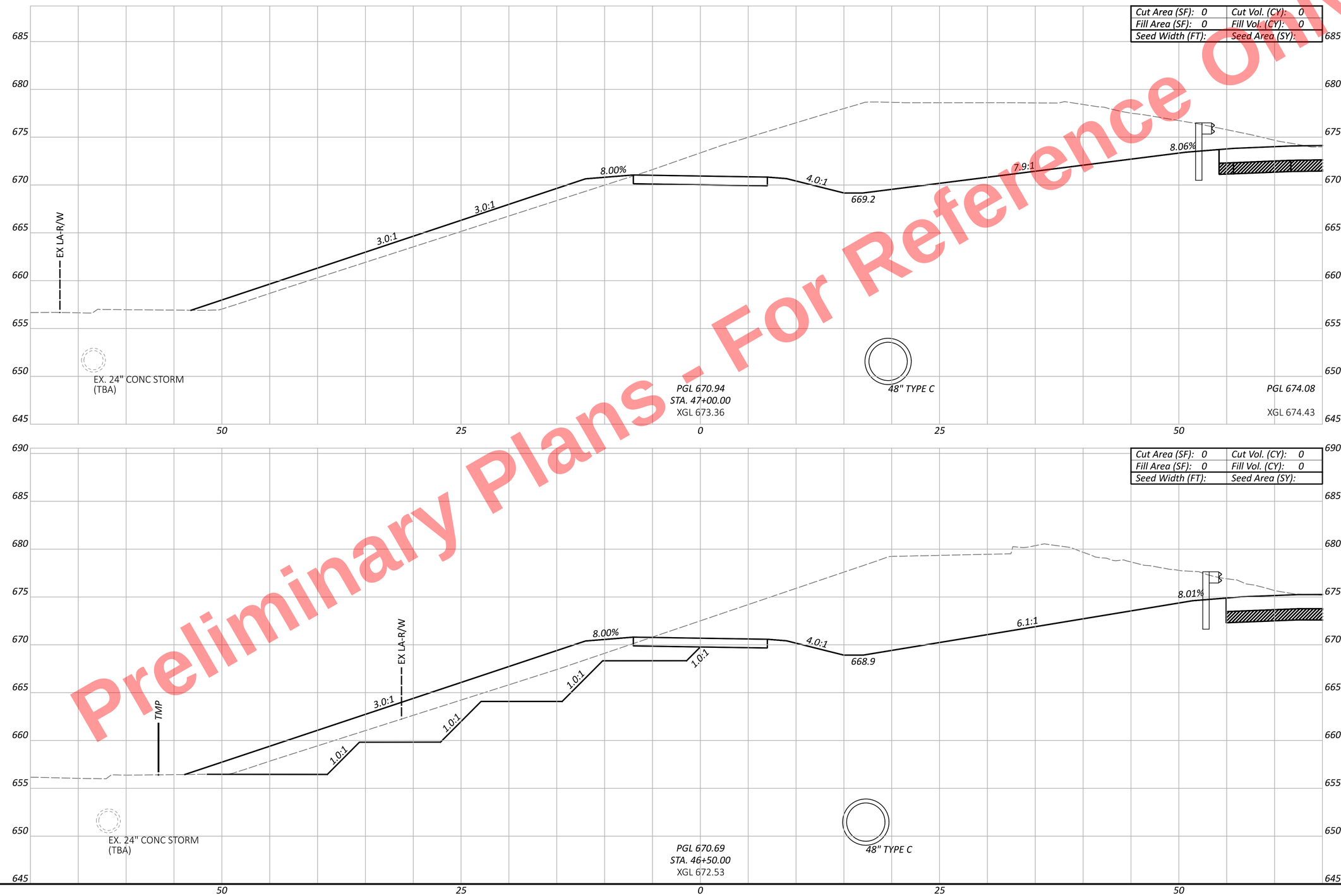



Preliminary Plans - For Reference Only

# CROSS SECTIONS - MUP WEST
## STA. 46+50.00 TO STA. 47+00.00

DESIGN AGENCY

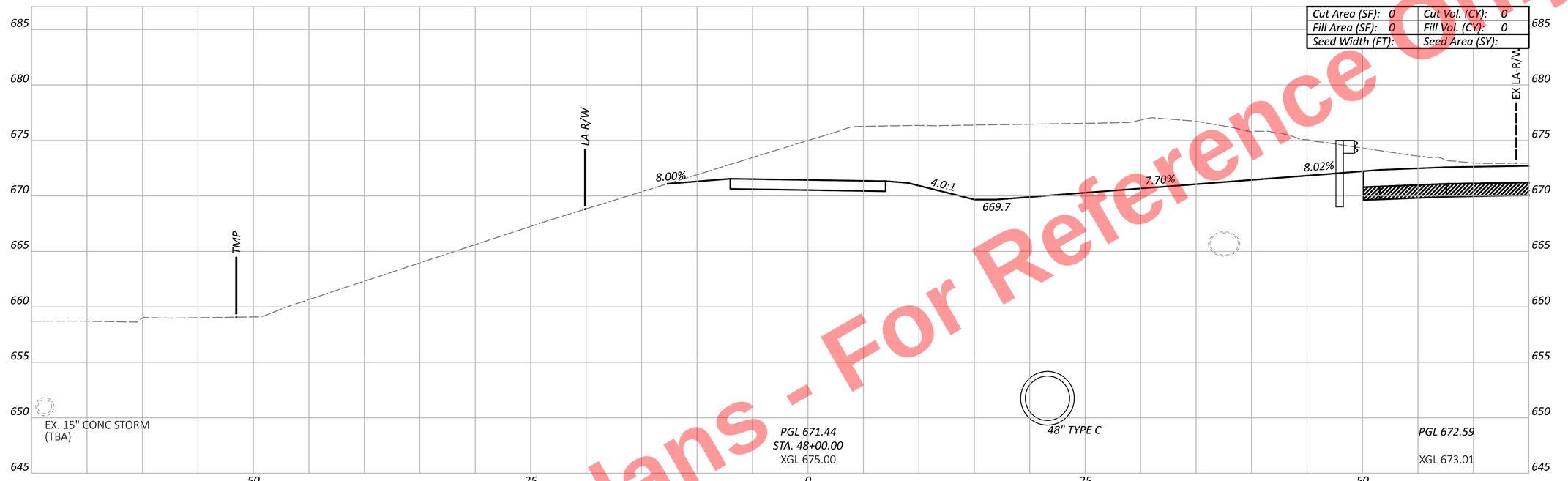
DESIGNER: KMM

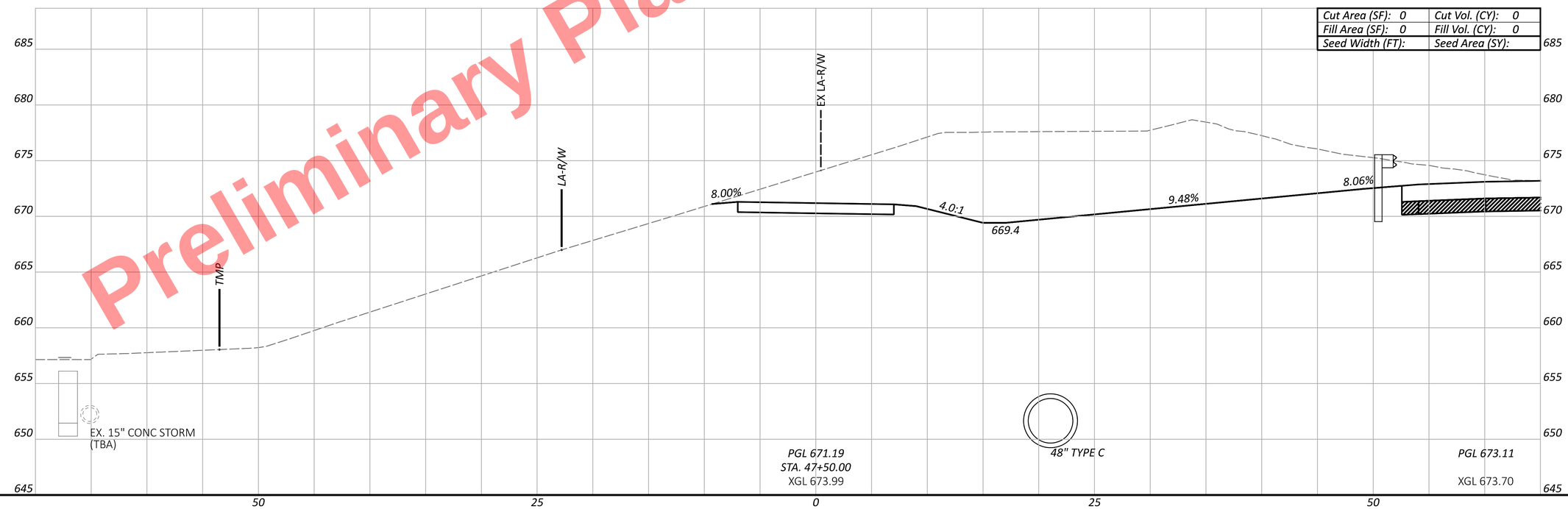
REVIEWER: AS 11/05/25

PROJECT ID: 105743

SHEET: P.593 | TOTAL: P.1135

Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP WEST
STA. 47+50.00 TO STA. 48+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 47+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY

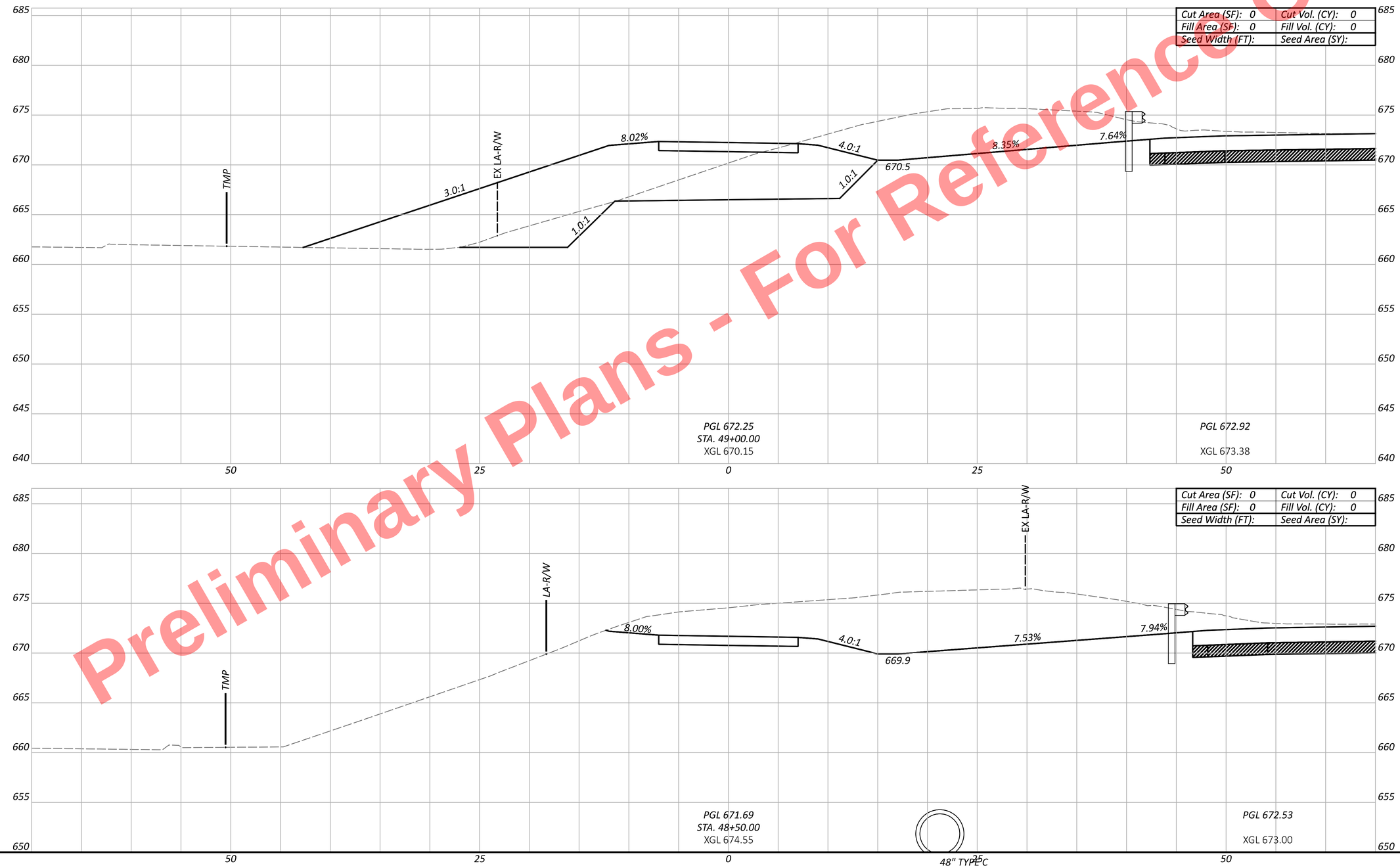
DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.594 | TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP WEST
STA.4 8+50.00 TO STA. 49+00.00

DESIGN AGENCY

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.595 TOTAL P.1135

Preliminary Plans - For Reference Only

| | |
|---|---|
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| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




| | |
|---|---|
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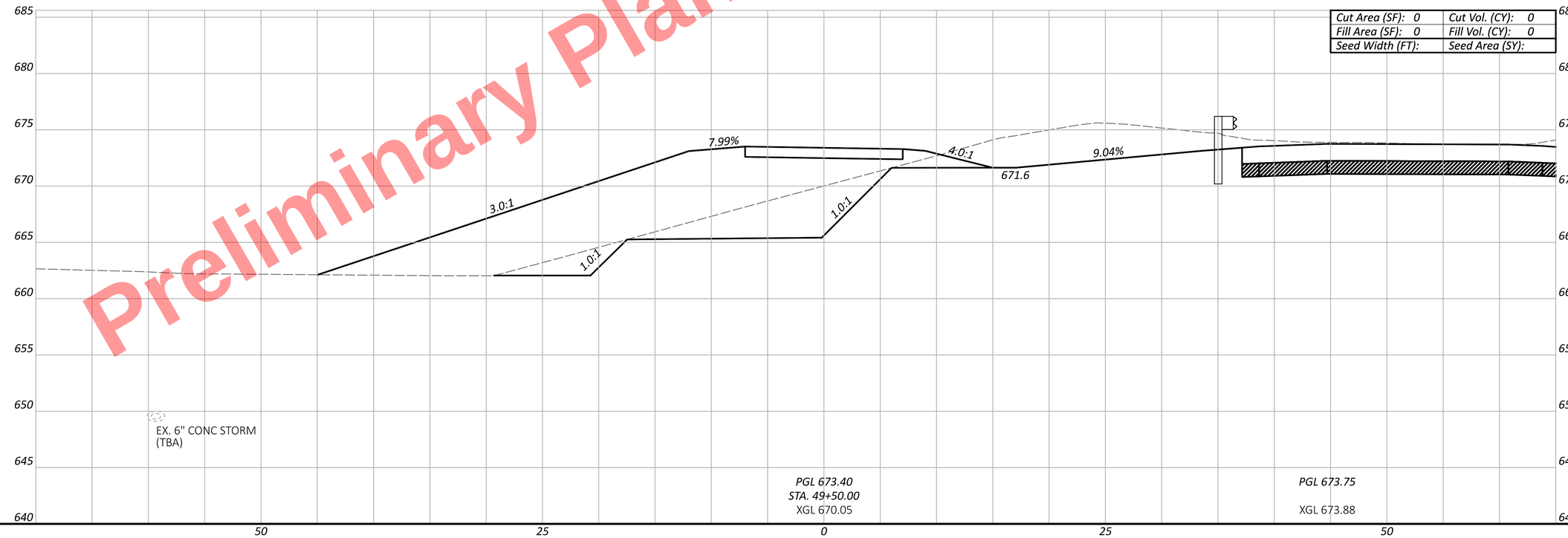
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP WEST
STA. 49+50.00 TO STA. 50+00.00

DESIGN AGENCY

DESIGNER KMM

REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.596 | TOTAL P.1135

MODEL: CLP_MUP - 50+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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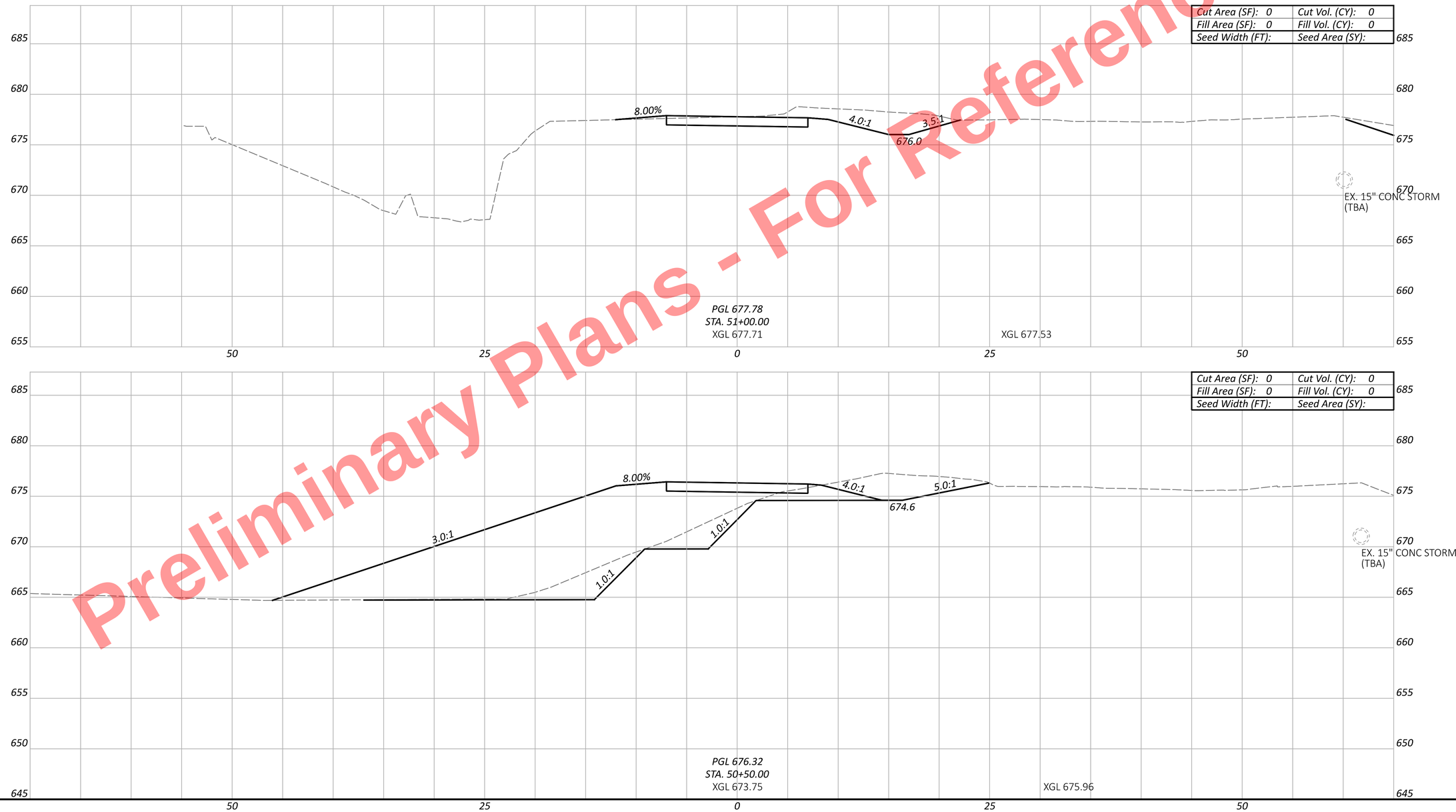



Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 50+50.00 TO STA. 51+00.00

DESIGN AGENCY

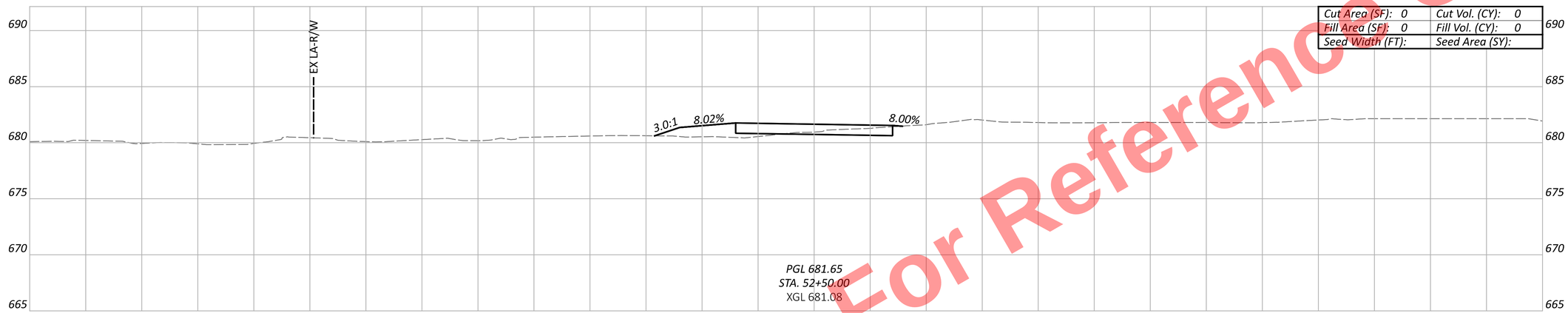
DESIGNER
KMM

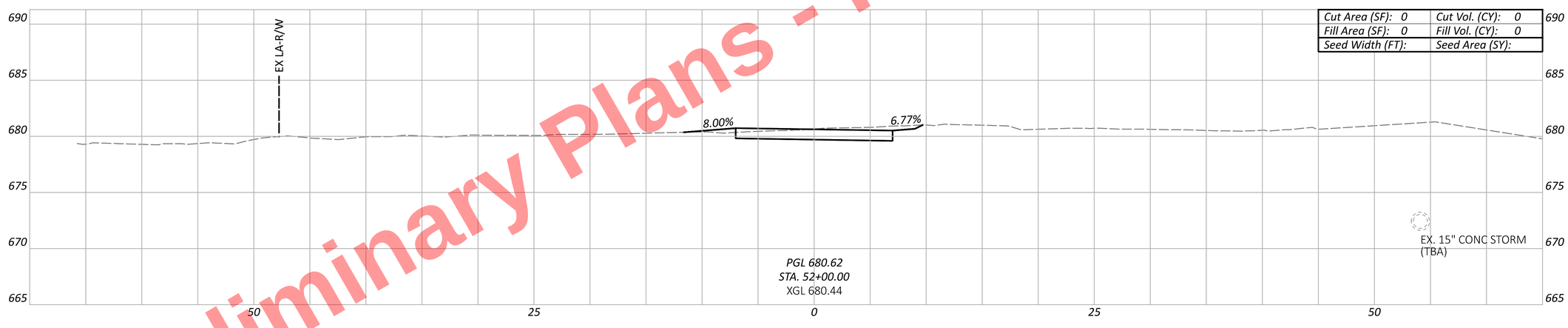
REVIEWER
AS 11/05/25

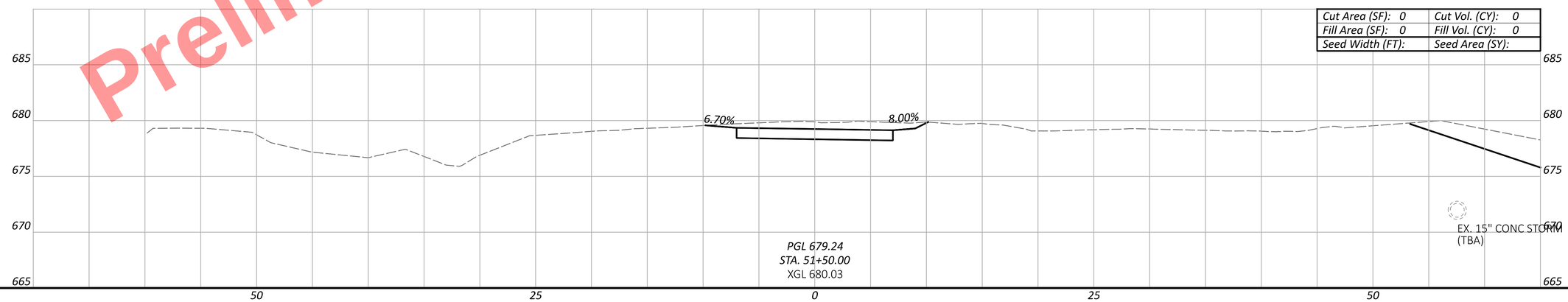
PROJECT ID
105743

SHEET P.597 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

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# CROSS SECTIONS - MUP WEST
STA. 51+50.00 TO STA. 52+50.00

DESIGN AGENCY

DESIGNER: KMM

REVIEWER: AS 11/05/25

PROJECT ID: 105743

SHEET: P.598 TOTAL: P.1135

Preliminary Plans - For Reference Only

MODEL: CLP_MUP - 52+82.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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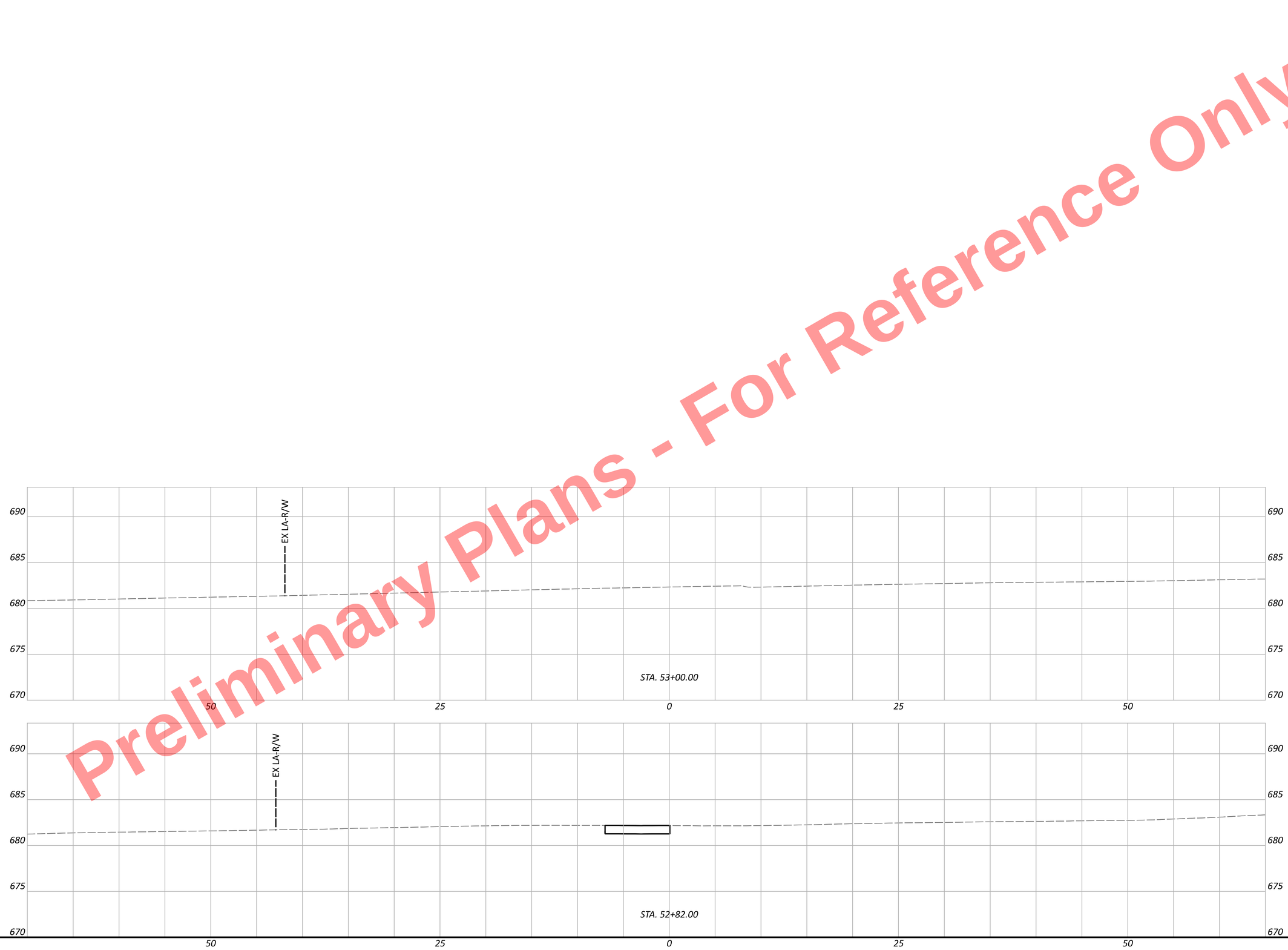
CUY-77-11.41 - PART 1




CROSS SECTIONS - MUP WEST
STA. 52+82.00 TO END

DESIGN AGENCY

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.599 TOTAL P.1135

Preliminary Plans - For Reference Only

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|---|---|
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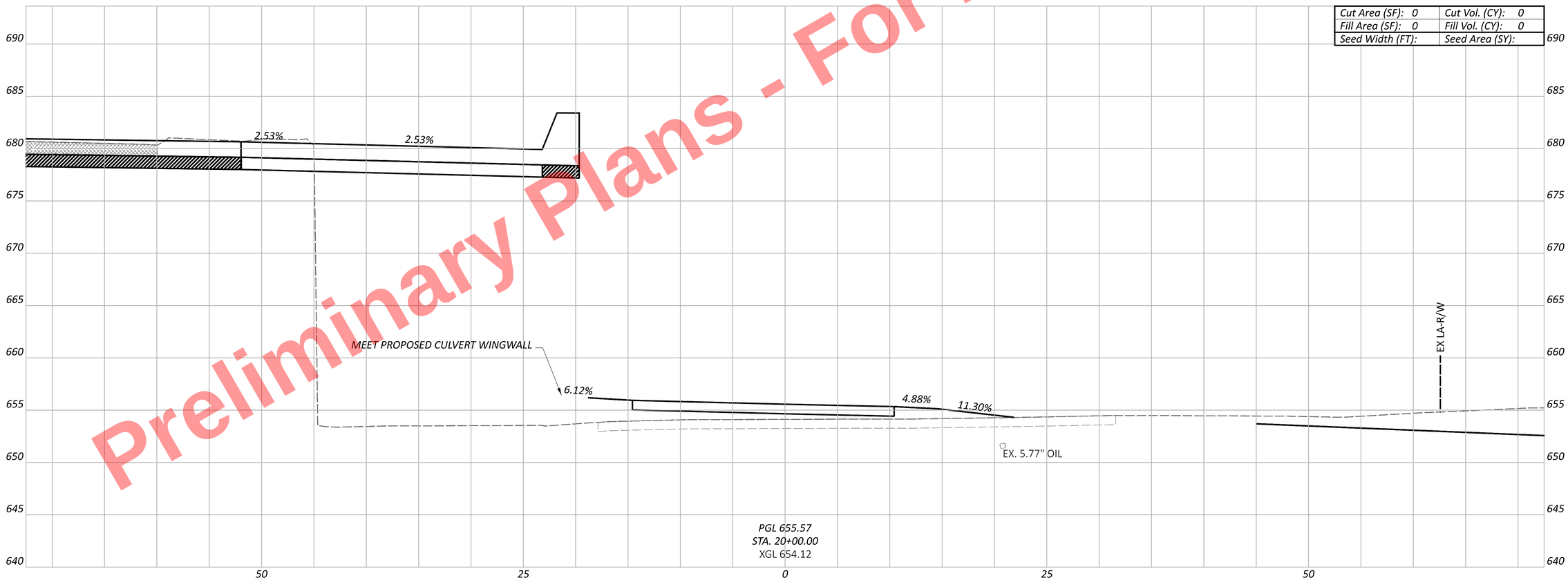
| Fill Area (SF): 0 | Fill Vol. (CY): 0 |
| Seed Width (FT): | Seed Area (SY): |




# CROSS SECTIONS - MUP EAST
STA. 20+00.00

CUY-77-11.41 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER
EAP

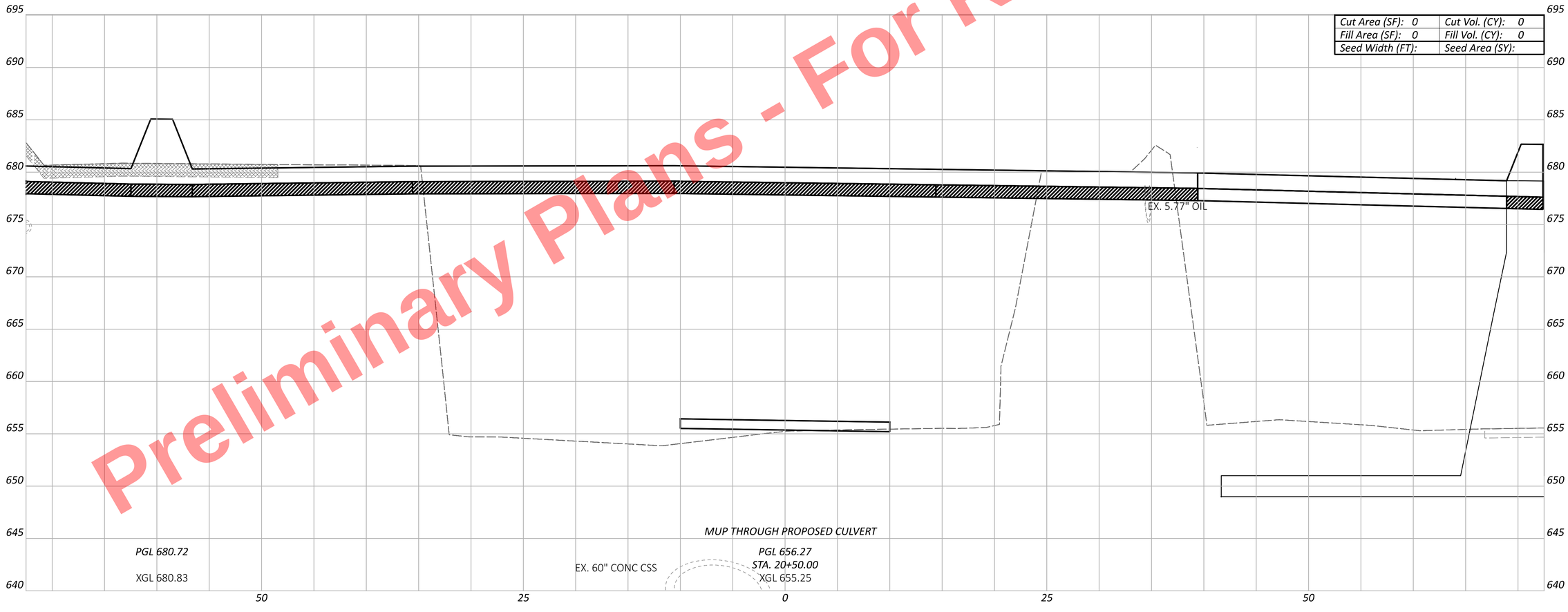
REVIEWER
KKP 05/02/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.600 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP EAST
STA. 20+50.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET P.601 TOTAL P.1135

Preliminary Plans - For Reference Only

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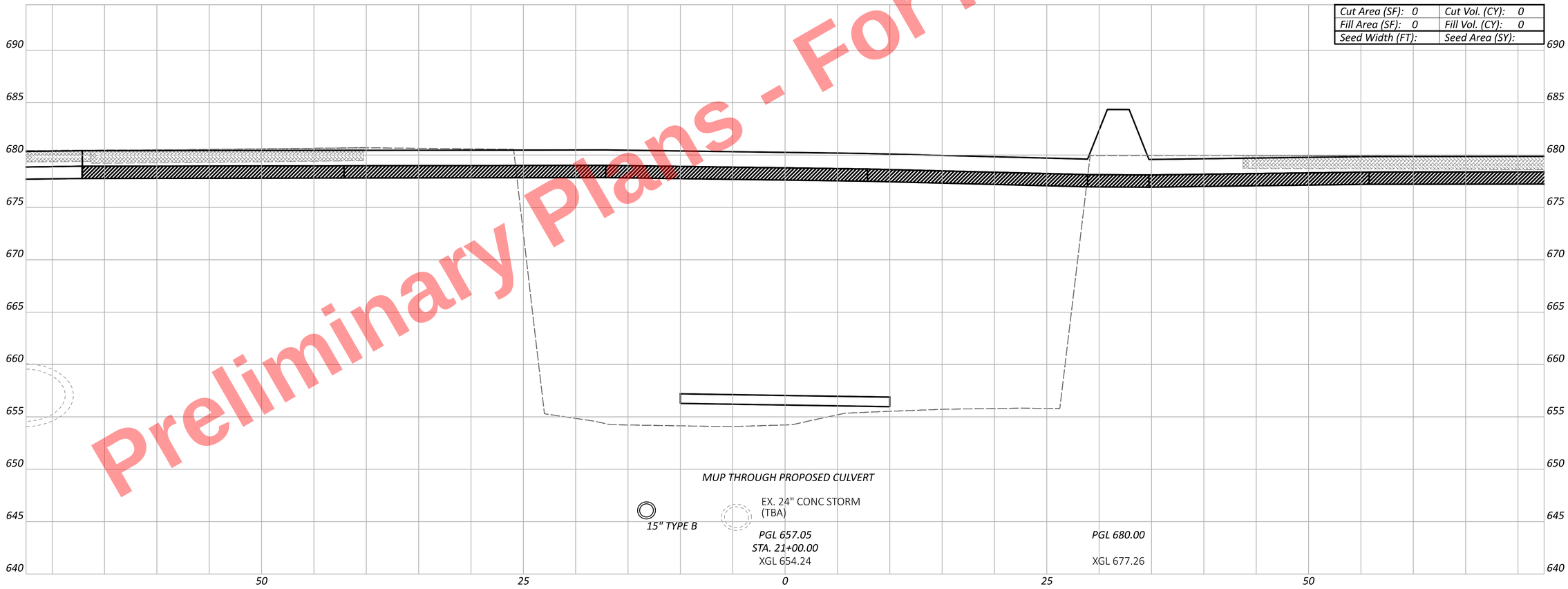


CROSS SECTIONS - MUP EAST
STA. 21+00.00

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

| SHEET | TOTAL |
|---|---|
| P.602 | P.1135 |

CUY-77-11.41 - PART 1

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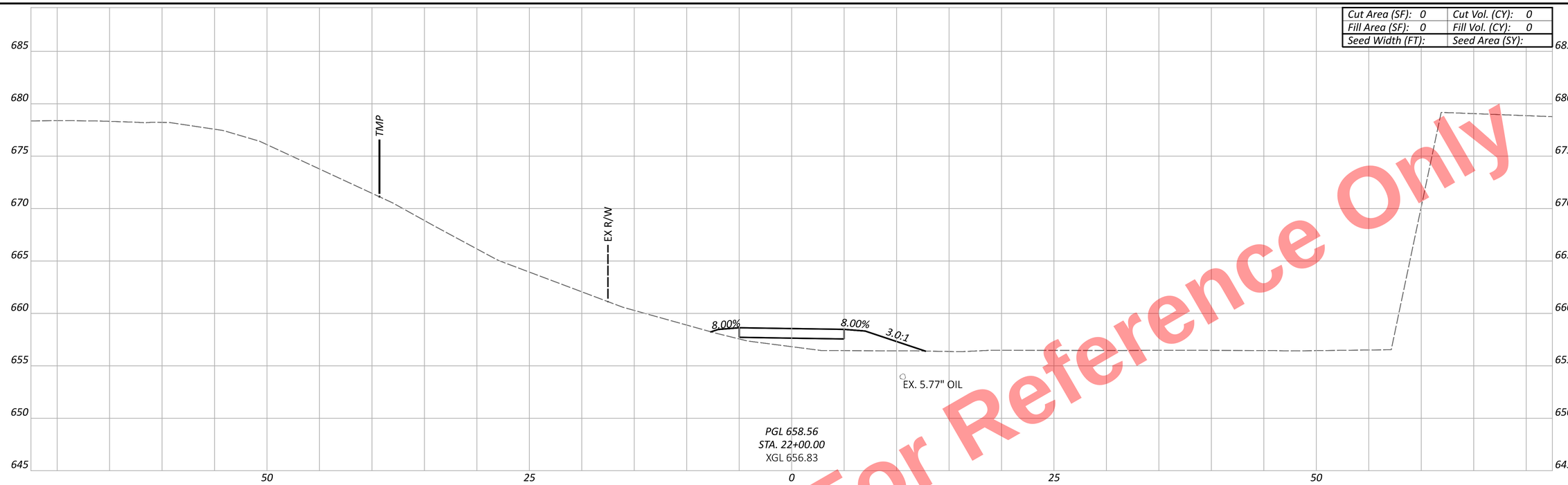
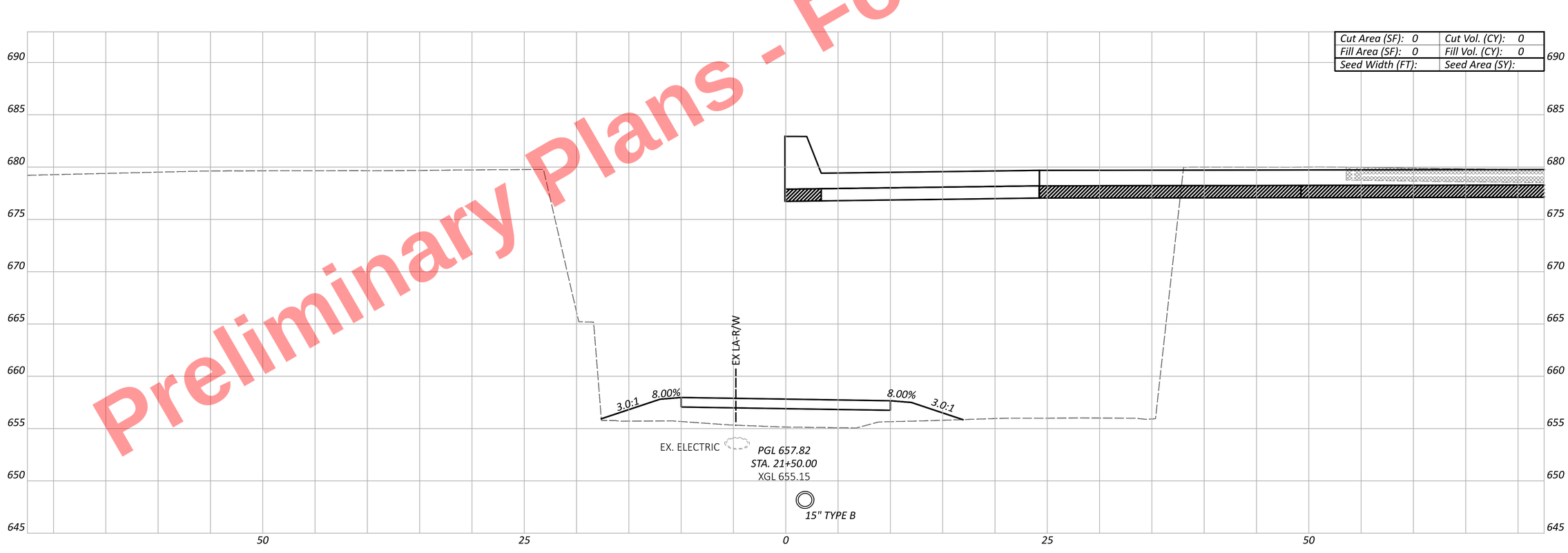
Preliminary Plans - For Reference Only




CROSS SECTIONS - MUP EAST
STA. 21+50.00 TO STA. 22+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET P.603 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 21+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:31 AM USER: kperkins
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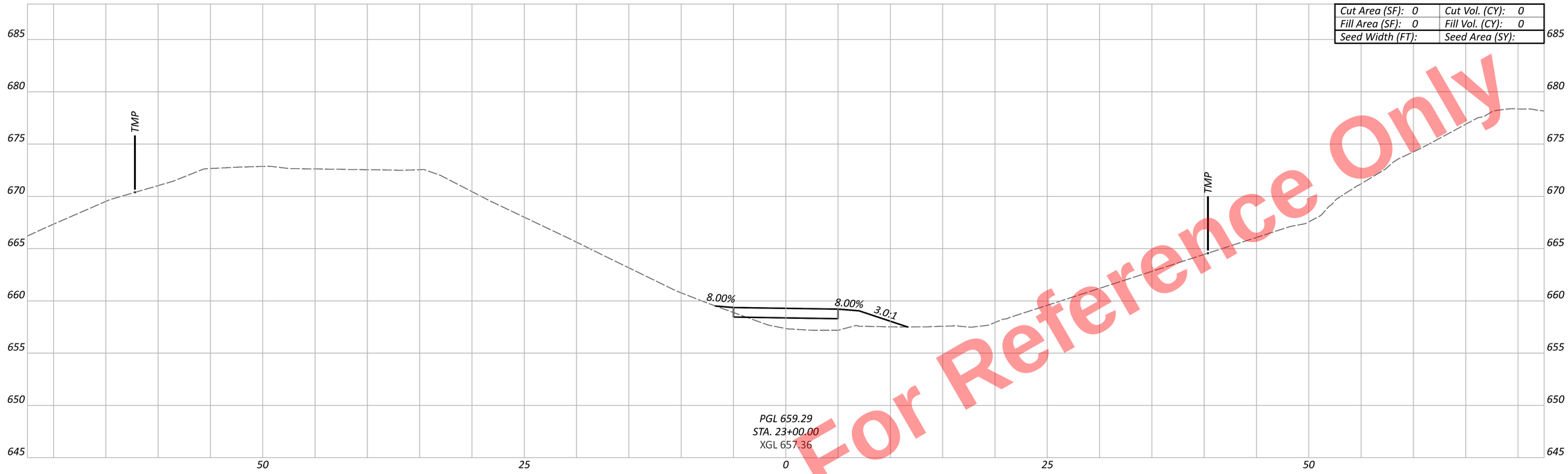


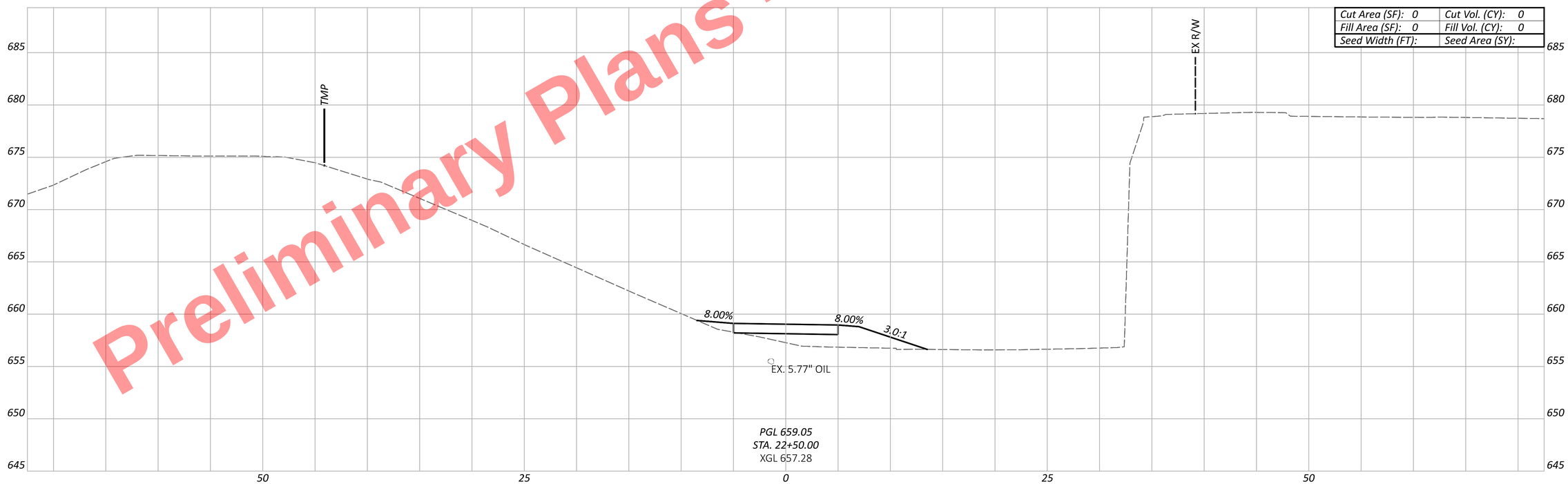


Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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# CROSS SECTIONS - MUP EAST
STA. 22+50.00 TO STA. 23+00.00

DESIGN AGENCY
HNTB

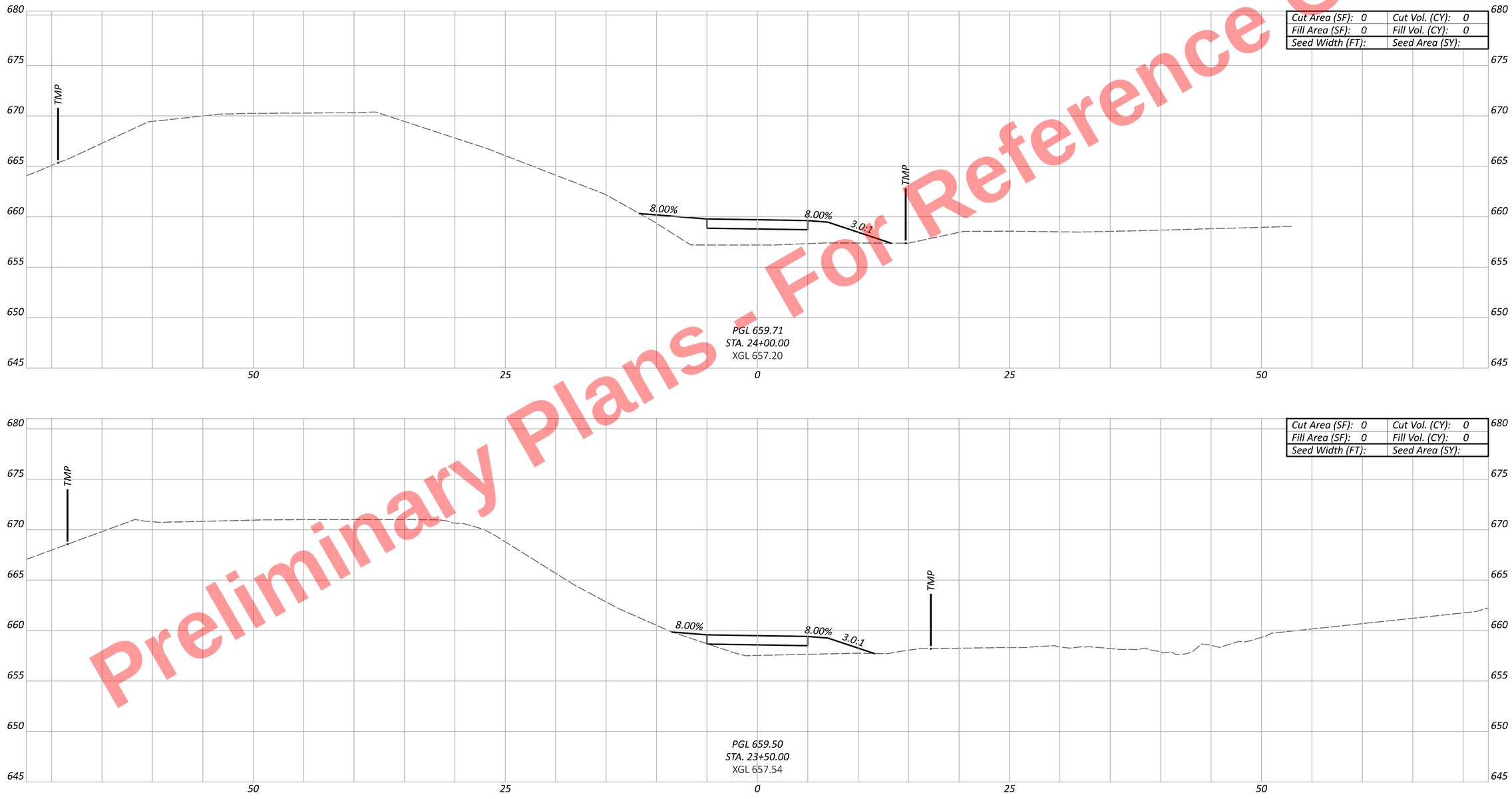
| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| - | - | - |

DESIGNER MTD

REVIEWER KKP 05/02/22

PROJECT ID 105743

SHEET P.604 | TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP EAST
STA. 23+50.00 TO STA. 24+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

DESIGN AGENCY
HNTB

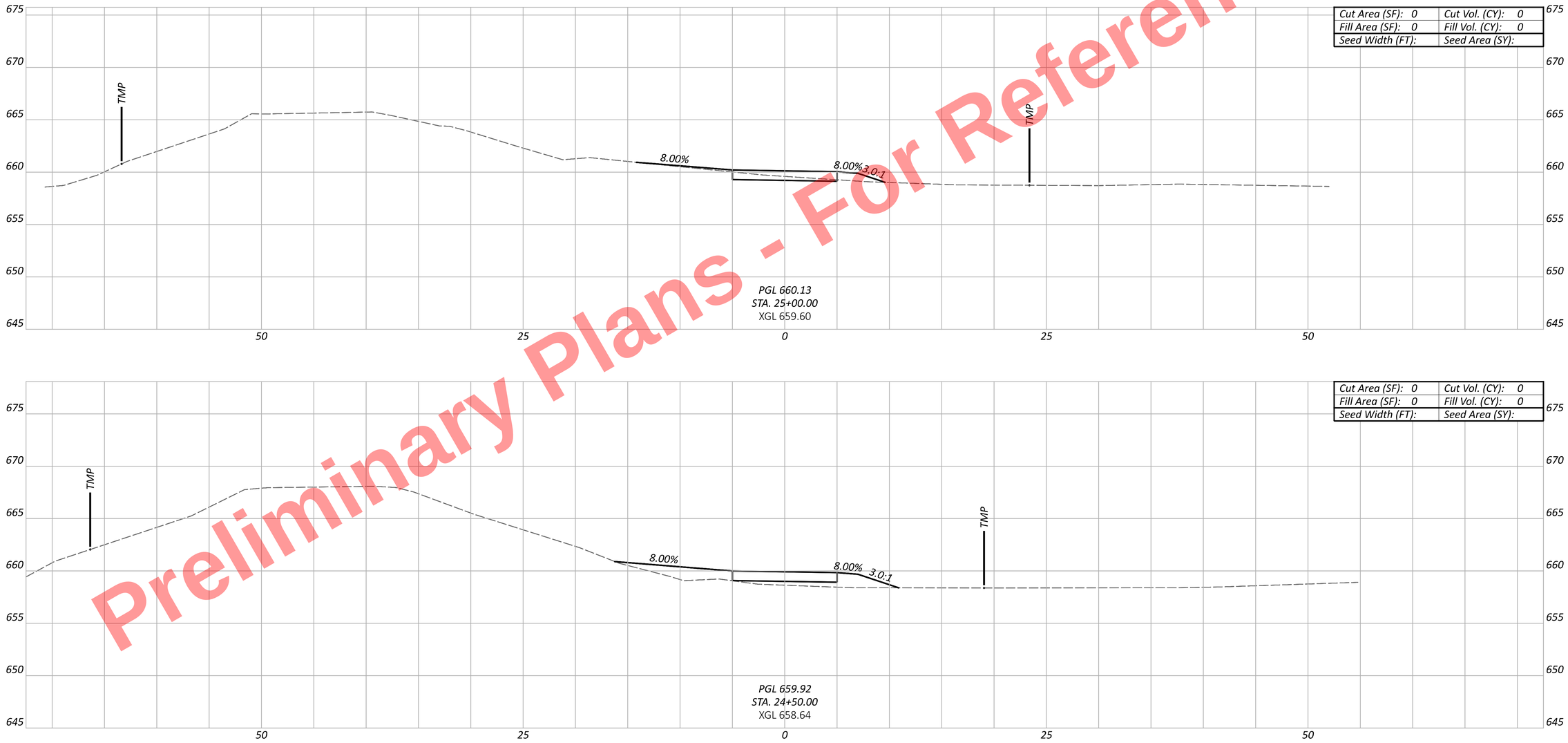
DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET P.605 TOTAL P.1135

Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP EAST
STA. 24+50.00 TO STA. 25+00.00

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

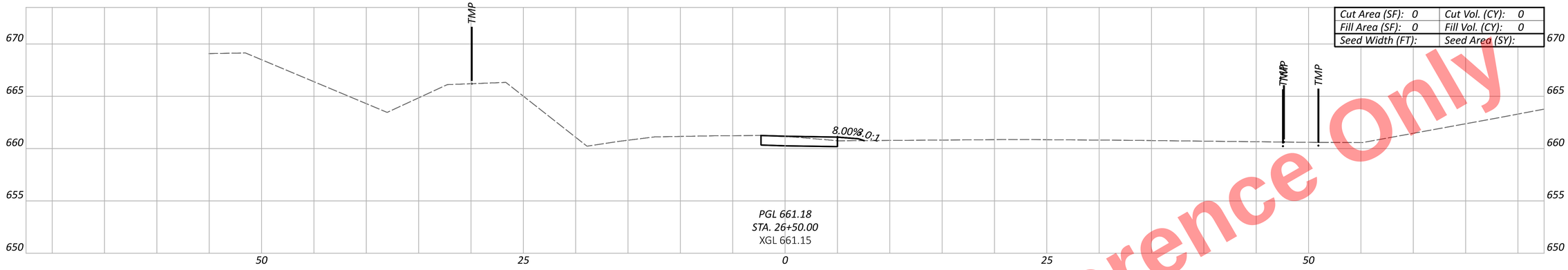
DESIGN AGENCY
HNTB

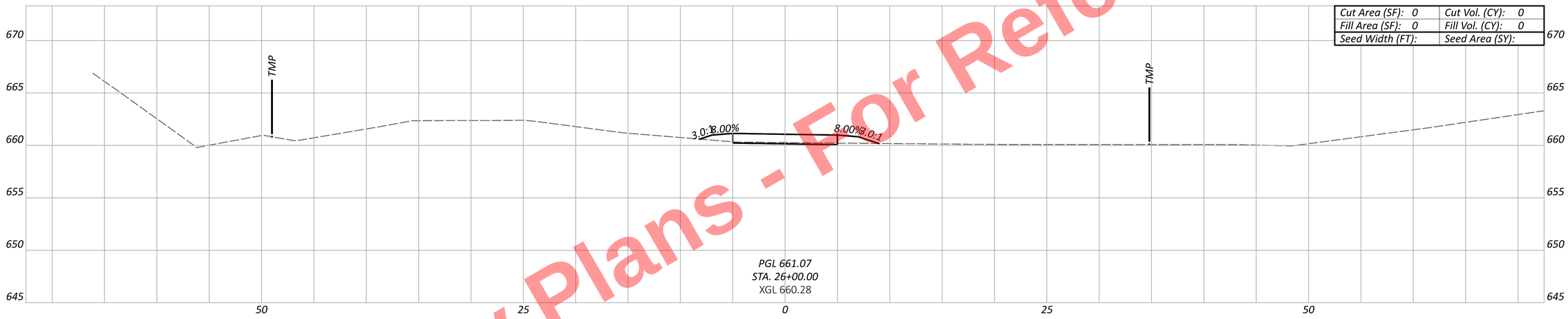
DESIGNER
MTD

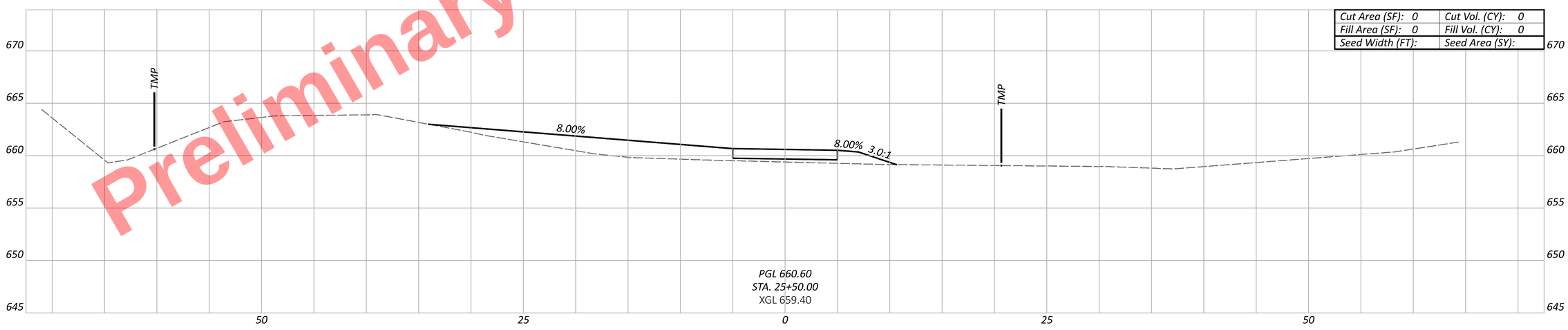
REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET P.606 | TOTAL P.1135




Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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CROSS SECTIONS - MUP EAST
STA. 25+50.00 TO STA. 26+50.00

DESIGN AGENCY
HNTB

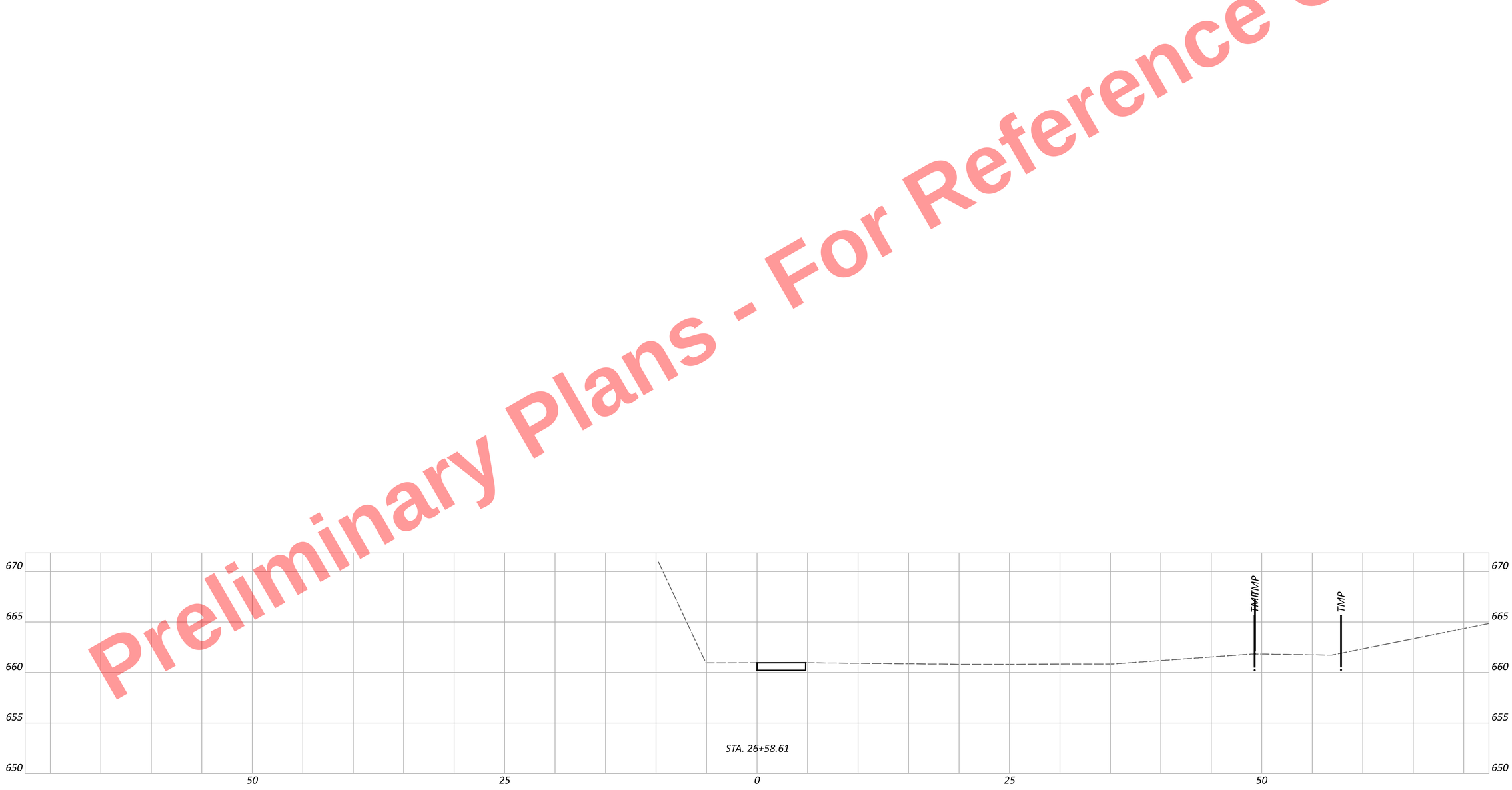
DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.607 TOTAL P.1135

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 27+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:30:47 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Roadway\Sheets\105743_XS702.dgn




CROSS SECTIONS - MUP EAST
STA. 27+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

| Sheet Totals | | |
|---|---|---|
| Seeding | Cut | Fill |
| . | . | . |

SHEET P.608 | TOTAL P.1135

# *SUPER ELEVATION TABLE (FUTURE CONDITION) - CURVE 1

| REMARKS | P.I. STATION 86+50.82 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | CENTERLINE CONTROL | 1°30'00" LT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| | | 700.20 | -0.40 | -0.040 | 10 | 700.60 | -0.65 | -0.018 | 36 | 701.25 | -0.40 | -0.040 | 10 | 700.85 | 74+50.00 | 700.85 | 10 | -0.040 | -0.40 | 701.25 | 36 | 0.018 | 0.65 | 701.90 | 10 | -0.040 | -0.40 | 701.50 | | |
| | | 699.87 | -0.40 | -0.040 | 10 | 700.27 | -0.68 | -0.019 | 36 | 700.95 | -0.40 | -0.040 | 10 | 700.55 | 74+75.00 | 700.55 | 10 | -0.040 | -0.40 | 700.95 | 36 | 0.019 | 0.68 | 701.63 | 10 | -0.040 | -0.40 | 701.23 | | |
| | | 699.49 | -0.40 | -0.040 | 10 | 699.89 | -0.76 | -0.021 | 36 | 700.65 | -0.40 | -0.040 | 10 | 700.25 | 75+00.00 | 700.25 | 10 | -0.040 | -0.40 | 700.65 | 36 | 0.021 | 0.76 | 701.41 | 10 | -0.040 | -0.40 | 701.01 | | |
| | | 699.16 | -0.40 | -0.040 | 10 | 699.56 | -0.79 | -0.022 | 36 | 700.35 | -0.40 | -0.040 | 10 | 699.95 | 75+25.00 | 699.95 | 10 | -0.040 | -0.40 | 700.35 | 36 | 0.022 | 0.79 | 701.14 | 10 | -0.040 | -0.40 | 700.74 | | |
| P.C. | | 699.14 | -0.40 | -0.040 | 10 | 699.54 | -0.79 | -0.022 | 36 | 700.33 | -0.40 | -0.040 | 10 | 699.93 | 75+26.62 | 699.93 | 10 | -0.040 | -0.40 | 700.33 | 36 | 0.022 | 0.79 | 701.12 | 10 | -0.040 | -0.40 | 700.72 | | P.C. |
| | | 698.84 | -0.40 | -0.040 | 10 | 699.24 | -0.86 | -0.024 | 36 | 700.10 | -0.40 | -0.040 | 10 | 699.70 | 75+50.00 | 699.70 | 10 | -0.040 | -0.40 | 700.10 | 36 | 0.024 | 0.86 | 700.96 | 10 | -0.040 | -0.40 | 700.56 | | |
| | | 698.55 | -0.40 | -0.040 | 10 | 698.95 | -0.90 | -0.025 | 36 | 699.85 | -0.40 | -0.040 | 10 | 699.45 | 75+75.00 | 699.45 | 10 | -0.040 | -0.40 | 699.85 | 36 | 0.025 | 0.90 | 700.75 | 10 | -0.040 | -0.40 | 700.35 | | |
| | | 698.23 | -0.40 | -0.040 | 10 | 698.63 | -0.97 | -0.027 | 36 | 699.60 | -0.40 | -0.040 | 10 | 699.20 | 76+00.00 | 699.20 | 10 | -0.040 | -0.40 | 699.60 | 36 | 0.027 | 0.97 | 700.57 | 10 | -0.040 | -0.40 | 700.17 | | |
| | | 697.95 | -0.40 | -0.040 | 10 | 698.35 | -1.01 | -0.028 | 36 | 699.36 | -0.40 | -0.040 | 10 | 698.96 | 76+25.00 | 698.96 | 10 | -0.040 | -0.40 | 699.36 | 36 | 0.028 | 1.01 | 700.37 | 10 | -0.040 | -0.40 | 699.97 | | |
| | | 697.63 | -0.40 | -0.040 | 10 | 698.03 | -1.08 | -0.030 | 36 | 699.11 | -0.40 | -0.040 | 10 | 698.71 | 76+50.00 | 698.71 | 10 | -0.040 | -0.40 | 699.11 | 36 | 0.030 | 1.08 | 700.19 | 10 | -0.040 | -0.40 | 699.79 | | |
| | | 697.34 | -0.40 | -0.040 | 10 | 697.74 | -1.12 | -0.031 | 36 | 698.86 | -0.22 | | 10 | 698.64 | 76+75.00 | 698.46 | 10 | -0.040 | -0.40 | 698.86 | 36 | 0.031 | 1.12 | 699.98 | 10 | | -0.22 | 699.76 | | |
| | | 697.06 | -0.40 | -0.040 | 10 | 697.46 | -1.15 | -0.032 | 36 | 698.61 | -0.22 | | 10 | 698.39 | 77+00.00 | 698.21 | 10 | -0.040 | -0.40 | 698.61 | 36 | 0.032 | 1.15 | 699.76 | 10 | | -0.22 | 699.54 | | |
| | | 696.74 | -0.40 | -0.040 | 10 | 697.14 | -1.22 | -0.034 | 36 | 698.36 | -0.21 | | 10 | 698.15 | 77+25.00 | 697.96 | 10 | -0.040 | -0.40 | 698.36 | 36 | 0.034 | 1.22 | 699.58 | 10 | | -0.21 | 699.37 | | |
| | | 696.45 | -0.40 | -0.040 | 10 | 696.85 | -1.26 | -0.035 | 36 | 698.11 | -0.21 | | 10 | 697.90 | 77+50.00 | 697.71 | 10 | -0.040 | -0.40 | 698.11 | 36 | 0.035 | 1.26 | 699.37 | 10 | | -0.21 | 699.16 | | |
| | | 696.14 | -0.40 | -0.040 | 10 | 696.54 | -1.33 | -0.037 | 36 | 697.87 | -0.21 | | 10 | 697.66 | 77+75.00 | 697.47 | 10 | -0.040 | -0.40 | 697.87 | 36 | 0.037 | 1.33 | 699.20 | 10 | | -0.21 | 698.99 | | |
| | | 695.85 | -0.40 | -0.040 | 10 | 696.25 | -1.37 | -0.038 | 36 | 697.62 | -0.20 | | 10 | 697.42 | 78+00.00 | 697.22 | 10 | -0.040 | -0.40 | 697.62 | 36 | 0.038 | 1.37 | 698.99 | 10 | | -0.20 | 698.79 | | |
| | | 695.53 | -0.40 | -0.040 | 10 | 695.93 | -1.44 | -0.040 | 36 | 697.37 | -0.20 | | 10 | 697.17 | 78+25.00 | 696.97 | 10 | -0.040 | -0.40 | 697.37 | 36 | 0.040 | 1.44 | 698.81 | 10 | | -0.20 | 698.61 | | |
| F.S. | | 695.23 | -0.41 | -0.041 | 10 | 695.64 | -1.48 | -0.041 | 36 | 697.12 | -0.20 | | 10 | 696.92 | 78+50.00 | 696.71 | 10 | -0.041 | -0.41 | 697.12 | 36 | 0.041 | 1.48 | 698.60 | 10 | | -0.20 | 698.40 | | F.S. |
| | | 694.98 | -0.41 | -0.041 | 10 | 695.39 | -1.48 | -0.041 | 36 | 696.87 | -0.20 | | 10 | 696.67 | 78+75.00 | 696.46 | 10 | -0.041 | -0.41 | 696.87 | 36 | 0.041 | 1.48 | 698.35 | 10 | | -0.20 | 698.15 | | |
| | | 694.73 | -0.41 | -0.041 | 10 | 695.14 | -1.48 | -0.041 | 36 | 696.62 | -0.20 | | 10 | 696.42 | 79+00.00 | 696.21 | 10 | -0.041 | -0.41 | 696.62 | 36 | 0.041 | 1.48 | 698.10 | 10 | | -0.20 | 697.90 | | |

HIGH SIDE SHOULDER WITH ROUNDING.

# BOTTOM OF SUBGRADE SUPER ELEVATION TABLE - CURVE 1

| REMARKS | P.I. STATION 86+50.82 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | CENTERLINE CONTROL | 1°30'00" LT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| | | 698.72 | -0.40 | -0.040 | 10 | 699.12 | -0.65 | -0.018 | 36 | 699.77 | -0.40 | -0.040 | 10 | 699.37 | 74+50.00 | 699.37 | 10 | -0.040 | -0.40 | 699.77 | 36 | 0.018 | 0.65 | 700.42 | 10 | -0.040 | -0.40 | 700.02 | | |
| | | 698.39 | -0.40 | -0.040 | 10 | 698.79 | -0.68 | -0.019 | 36 | 699.47 | -0.40 | -0.040 | 10 | 699.07 | 74+75.00 | 699.07 | 10 | -0.040 | -0.40 | 699.47 | 36 | 0.019 | 0.68 | 700.15 | 10 | -0.040 | -0.40 | 699.75 | | |
| | | 698.01 | -0.40 | -0.040 | 10 | 698.41 | -0.76 | -0.021 | 36 | 699.17 | -0.40 | -0.040 | 10 | 698.77 | 75+00.00 | 698.77 | 10 | -0.040 | -0.40 | 699.17 | 36 | 0.021 | 0.76 | 699.93 | 10 | -0.040 | -0.40 | 699.53 | | |
| | | 697.68 | -0.40 | -0.040 | 10 | 698.08 | -0.79 | -0.022 | 36 | 698.87 | -0.40 | -0.040 | 10 | 698.47 | 75+25.00 | 698.47 | 10 | -0.040 | -0.40 | 698.87 | 36 | 0.022 | 0.79 | 699.66 | 10 | -0.040 | -0.40 | 699.26 | | |
| P.C. | | 697.66 | -0.40 | -0.040 | 10 | 698.06 | -0.79 | -0.022 | 36 | 698.85 | -0.40 | -0.040 | 10 | 698.45 | 75+26.62 | 698.45 | 10 | -0.040 | -0.40 | 698.85 | 36 | 0.022 | 0.79 | 699.64 | 10 | -0.040 | -0.40 | 699.24 | | P.C. |
| | | 697.36 | -0.40 | -0.040 | 10 | 697.76 | -0.86 | -0.024 | 36 | 698.62 | -0.40 | -0.040 | 10 | 698.22 | 75+50.00 | 698.22 | 10 | -0.040 | -0.40 | 698.62 | 36 | 0.024 | 0.86 | 699.48 | 10 | -0.040 | -0.40 | 699.08 | | |
| | | 697.07 | -0.40 | -0.040 | 10 | 697.47 | -0.90 | -0.025 | 36 | 698.37 | -0.40 | -0.040 | 10 | 697.97 | 75+75.00 | 697.97 | 10 | -0.040 | -0.40 | 698.37 | 36 | 0.025 | 0.90 | 699.27 | 10 | -0.040 | -0.40 | 698.87 | | |
| | | 696.75 | -0.40 | -0.040 | 10 | 697.15 | -0.97 | -0.027 | 36 | 698.12 | -0.40 | -0.040 | 10 | 697.72 | 76+00.00 | 697.72 | 10 | -0.040 | -0.40 | 698.12 | 36 | 0.027 | 0.97 | 699.09 | 10 | -0.040 | -0.40 | 698.69 | | |
| | | 696.47 | -0.40 | -0.040 | 10 | 696.87 | -1.01 | -0.028 | 36 | 697.88 | -0.40 | -0.040 | 10 | 697.48 | 76+25.00 | 697.48 | 10 | -0.040 | -0.40 | 697.88 | 36 | 0.028 | 1.01 | 698.89 | 10 | -0.040 | -0.40 | 698.49 | | |
| | | 696.15 | -0.40 | -0.040 | 10 | 696.55 | -1.08 | -0.030 | 36 | 697.63 | -0.40 | -0.040 | 10 | 697.23 | 76+50.00 | 697.23 | 10 | -0.040 | -0.40 | 697.63 | 36 | 0.030 | 1.08 | 698.71 | 10 | -0.040 | -0.40 | 698.31 | | |
| | | 695.86 | -0.40 | -0.040 | 10 | 696.26 | -1.12 | -0.031 | 36 | 697.38 | -0.22 | | 10 | 697.16 | 76+75.00 | 696.98 | 10 | -0.040 | -0.40 | 697.38 | 36 | 0.031 | 1.12 | 698.50 | 10 | | -0.22 | 698.28 | | |
| | | 695.58 | -0.40 | -0.040 | 10 | 695.98 | -1.15 | -0.032 | 36 | 697.13 | -0.22 | | 10 | 696.91 | 77+00.00 | 696.73 | 10 | -0.040 | -0.40 | 697.13 | 36 | 0.032 | 1.15 | 698.28 | 10 | | -0.22 | 698.06 | | |
| | | 695.26 | -0.40 | -0.040 | 10 | 695.66 | -1.22 | -0.034 | 36 | 696.88 | -0.21 | | 10 | 696.67 | 77+25.00 | 696.48 | 10 | -0.040 | -0.40 | 696.88 | 36 | 0.034 | 1.22 | 698.10 | 10 | | -0.21 | 697.89 | | |
| | | 694.97 | -0.40 | -0.040 | 10 | 695.37 | -1.26 | -0.035 | 36 | 696.63 | -0.21 | | 10 | 696.42 | 77+50.00 | 696.23 | 10 | -0.040 | -0.40 | 696.63 | 36 | 0.035 | 1.26 | 697.89 | 10 | | -0.21 | 697.68 | | |
| | | 694.66 | -0.40 | -0.040 | 10 | 695.06 | -1.33 | -0.037 | 36 | 696.39 | -0.21 | | 10 | 696.18 | 77+75.00 | 695.99 | 10 | -0.040 | -0.40 | 696.39 | 36 | 0.037 | 1.33 | 697.72 | 10 | | -0.21 | 697.51 | | |
| | | 694.37 | -0.40 | -0.040 | 10 | 694.77 | -1.37 | -0.038 | 36 | 696.14 | -0.20 | | 10 | 695.94 | 78+00.00 | 695.74 | 10 | -0.040 | -0.40 | 696.14 | 36 | 0.038 | 1.37 | 697.51 | 10 | | -0.20 | 697.31 | | |
| | | 694.05 | -0.40 | -0.040 | 10 | 694.45 | -1.44 | -0.040 | 36 | 695.89 | -0.20 | | 10 | 695.69 | 78+25.00 | 695.49 | 10 | -0.040 | -0.40 | 695.89 | 36 | 0.040 | 1.44 | 697.33 | 10 | | -0.20 | 697.13 | | |
| F.S. | | 693.75 | -0.41 | -0.041 | 10 | 694.16 | -1.48 | -0.041 | 36 | 695.64 | -0.20 | | 10 | 695.44 | 78+50.00 | 695.23 | 10 | -0.041 | -0.41 | 695.64 | 36 | 0.041 | 1.48 | 697.12 | 10 | | -0.20 | 696.92 | | F.S. |
| | | 693.50 | -0.41 | -0.041 | 10 | 693.91 | -1.48 | -0.041 | 36 | 695.39 | -0.20 | | 10 | 695.19 | 78+75.00 | 694.98 | 10 | -0.041 | -0.41 | 695.39 | 36 | 0.041 | 1.48 | 696.87 | 10 | | -0.20 | 696.67 | | |
| | | 693.25 | -0.41 | -0.041 | 10 | 693.66 | -1.48 | -0.041 | 36 | 695.14 | -0.20 | | 10 | 694.94 | 79+00.00 | 694.73 | 10 | -0.041 | -0.41 | 695.14 | 36 | 0.041 | 1.48 | 696.62 | 10 | | -0.20 | 696.42 | | |

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

*SUPER ELEVATION TABLE (FUTURE CONDITION) PROVIDED FOR INFORMATION ONLY. BOTTOM OF SUBGRADE ELEVATIONS ARE CALCULATED AT APPROXIMATELY 1.48' BELOW FUTURE CONDITION ELEVATIONS.

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans - Not For Reference Only

BOTTOM OF SUBGRADE SUPERELEVATION TABLE I.R. 77 CURVE 7

CUY-77-11.41 - PART 1

MODEL: Sheet-1a PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:14 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

DESIGN AGENCY HNTB

DESIGNER

REVIEWER

PROJECT ID 105743

SHEET P.609 TOTAL P.1135

# SUPERELEVATION TABLE - CURVE 1

| REMARKS | P.I. STATION 86+50.82 — LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°30'00" LT — RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | INTERIM EOP ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | INTERIM EOP ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| EX. | | 700.27 | -0.40 | -0.040 | 10 | 700.67 | -1.04 | -0.029 | 36 | - | - | - | - | 701.71 | 0.14 | 0.020 | 6.97 | 701.85 | 0.01 | | 3.50 | 701.86 | 74+50.00 | 701.90 | 3.61 | -0.018 | -0.06 | 701.96 | 6.43 | -0.015 | -0.10 | 702.06 | - | - | - | - | 36 | 0.015 | 0.54 | 702.60 | 10 | -0.040 | -0.40 | 702.20 | | EX. |
| | | 699.91 | -0.40 | -0.040 | 10 | 700.31 | -1.08 | -0.030 | 36 | - | - | - | - | 701.39 | 0.20 | 0.030 | 6.58 | 701.59 | 0.04 | | 3.50 | 701.63 | 74+75.00 | 701.42 | 4.01 | -0.040 | -0.16 | 701.58 | 6.07 | -0.017 | -0.10 | 701.68 | - | - | - | - | 36 | 0.017 | 0.61 | 702.29 | 10 | -0.040 | -0.40 | 701.89 | | |
| | | 699.54 | -0.40 | -0.040 | 10 | 699.94 | -1.12 | -0.031 | 36 | - | - | - | - | 701.06 | 0.19 | 0.031 | 6.20 | 701.25 | 0.02 | | 3.88 | 701.27 | 75+00.00 | 701.03 | 4.36 | -0.040 | -0.17 | 701.20 | 5.72 | -0.018 | -0.10 | 701.30 | - | - | - | - | 36 | 0.018 | 0.65 | 701.95 | 10 | -0.040 | -0.40 | 701.55 | | |
| | | 699.22 | -0.40 | -0.040 | 10 | 699.62 | -1.12 | -0.031 | 36 | - | - | - | - | 700.74 | 0.18 | 0.031 | 5.81 | 700.92 | 0.01 | | 4.26 | 700.93 | 75+25.00 | 700.61 | 4.71 | -0.040 | -0.19 | 700.80 | 5.36 | -0.020 | -0.11 | 700.91 | - | - | - | - | 36 | 0.020 | 0.72 | 701.63 | 10 | -0.040 | -0.40 | 701.23 | | |
| P.C. | | 699.19 | -0.40 | -0.040 | 10 | 699.59 | -1.12 | -0.031 | 36 | - | - | - | - | 700.71 | 0.18 | 0.031 | 5.78 | 700.89 | 0.01 | | 4.29 | 700.90 | 75+26.62 | 700.59 | 4.74 | -0.040 | -0.19 | 700.78 | 5.34 | -0.020 | -0.11 | 700.89 | - | - | - | - | 36 | 0.020 | 0.72 | 701.61 | 10 | -0.040 | -0.40 | 701.21 | | P.C. |
| | | 698.86 | -0.40 | -0.040 | 10 | 699.26 | -1.15 | -0.032 | 36 | - | - | - | - | 700.41 | 0.17 | 0.032 | 5.42 | 700.58 | -0.01 | | 4.65 | 700.57 | 75+50.00 | 700.23 | 5.07 | -0.040 | -0.20 | 700.43 | 5.00 | -0.022 | -0.11 | 700.54 | - | - | - | - | 36 | 0.022 | 0.79 | 701.33 | 10 | -0.040 | -0.40 | 700.93 | | |
| | | 698.55 | -0.40 | -0.040 | 10 | 698.95 | -1.19 | -0.033 | 36 | - | - | - | - | 700.14 | 0.17 | 0.033 | 5.03 | 700.31 | -0.02 | | 5.03 | 700.29 | 75+75.00 | 699.85 | 5.42 | -0.040 | -0.22 | 700.07 | 4.64 | -0.023 | -0.11 | 700.18 | - | - | - | - | 36 | 0.023 | 0.83 | 701.01 | 10 | -0.040 | -0.40 | 700.61 | | |
| | | 698.24 | -0.40 | -0.040 | 10 | 698.64 | -1.22 | -0.034 | 36 | - | - | - | - | 699.86 | 0.16 | 0.034 | 4.65 | 700.02 | -0.03 | | 5.41 | 699.99 | 76+00.00 | 699.50 | 5.77 | -0.040 | -0.23 | 699.73 | 4.29 | -0.025 | -0.11 | 699.84 | - | - | - | - | 36 | 0.025 | 0.90 | 700.74 | 10 | -0.040 | -0.40 | 700.34 | | |
| | | 697.97 | -0.40 | -0.040 | 10 | 698.37 | -1.22 | -0.034 | 36 | - | - | - | - | 699.59 | 0.14 | 0.034 | 4.26 | 699.73 | -0.05 | | 5.79 | 699.68 | 76+25.00 | 699.18 | 6.12 | -0.040 | -0.24 | 699.42 | 3.93 | -0.026 | -0.10 | 699.52 | - | - | - | - | 36 | 0.026 | 0.94 | 700.46 | 10 | -0.040 | -0.40 | 700.06 | | |
| | | 697.65 | -0.40 | -0.040 | 10 | 698.05 | -1.26 | -0.035 | 36 | - | - | - | - | 699.31 | 0.14 | 0.035 | 3.87 | 699.45 | -0.06 | | 6.18 | 699.39 | 76+50.00 | 698.86 | 6.48 | -0.040 | -0.26 | 699.12 | 3.57 | -0.028 | -0.10 | 699.22 | - | - | - | - | 36 | 0.028 | 1.01 | 700.23 | 10 | -0.040 | -0.40 | 699.83 | | |
| | | 697.34 | -0.40 | -0.040 | 10 | 697.74 | -1.30 | -0.036 | 36 | - | - | - | - | 699.04 | 0.13 | 0.036 | 3.49 | 699.17 | -0.07 | | 6.56 | 699.10 | 76+75.00 | 698.56 | 6.83 | -0.040 | -0.27 | 698.83 | 3.22 | -0.030 | -0.10 | 698.93 | - | - | - | - | 36 | 0.030 | 1.08 | 700.01 | 10 | | -0.22 | 699.79 | | |
| | | 697.04 | -0.40 | -0.040 | 10 | 697.44 | -1.33 | -0.037 | 36 | - | - | - | - | 698.77 | 0.11 | 0.037 | 3.10 | 698.88 | -0.09 | | 6.94 | 698.79 | 77+00.00 | 698.28 | 7.18 | -0.040 | -0.29 | 698.57 | 2.86 | -0.031 | -0.09 | 698.66 | - | - | - | - | 36 | 0.031 | 1.12 | 699.78 | 10 | | -0.22 | 699.56 | | |
| | | 696.76 | -0.40 | -0.040 | 10 | 697.16 | -1.33 | -0.037 | 36 | - | - | - | - | 698.49 | 0.10 | 0.037 | 2.71 | 698.59 | -0.10 | | 7.32 | 698.49 | 77+25.00 | 698.03 | 7.53 | -0.040 | -0.30 | 698.33 | 2.50 | -0.033 | -0.08 | 698.41 | - | - | - | - | 36 | 0.033 | 1.19 | 699.60 | 10 | | -0.22 | 699.38 | | |
| | | 696.45 | -0.40 | -0.040 | 10 | 696.85 | -1.37 | -0.038 | 36 | - | - | - | - | 698.22 | 0.09 | 0.038 | 2.32 | 698.31 | -0.11 | | 7.71 | 698.20 | 77+50.00 | 697.76 | 7.89 | -0.041 | -0.32 | 698.08 | 2.14 | -0.035 | -0.07 | 698.15 | - | - | - | - | 36 | 0.035 | 1.26 | 699.41 | 10 | | -0.21 | 699.20 | | |
| | | 696.14 | -0.40 | -0.040 | 10 | 696.54 | -1.40 | -0.039 | 36 | - | - | - | - | 697.94 | 0.08 | 0.039 | 1.94 | 698.02 | -0.13 | | 8.09 | 697.89 | 77+75.00 | 697.49 | 8.24 | -0.041 | -0.34 | 697.83 | 1.79 | -0.036 | -0.06 | 697.89 | - | - | - | - | 36 | 0.036 | 1.30 | 699.19 | 10 | | -0.21 | 698.98 | | |
| | | 695.83 | -0.40 | -0.040 | 10 | 696.23 | -1.44 | -0.040 | 36 | - | - | - | - | 697.67 | 0.06 | 0.040 | 1.55 | 697.73 | -0.14 | | 8.47 | 697.59 | 78+00.00 | 697.23 | 8.59 | -0.041 | -0.35 | 697.58 | 1.43 | -0.038 | -0.05 | 697.63 | - | - | - | - | 36 | 0.038 | 1.37 | 699.00 | 10 | | -0.20 | 698.80 | | |
| | | 695.55 | -0.40 | -0.040 | 10 | 695.95 | -1.44 | -0.040 | 36 | - | - | - | - | 697.39 | 0.05 | 0.040 | 1.16 | 697.44 | -0.15 | | 8.85 | 697.29 | 78+25.00 | 696.97 | 8.94 | -0.041 | -0.37 | 697.34 | 1.07 | -0.039 | -0.04 | 697.38 | - | - | - | - | 36 | 0.039 | 1.40 | 698.78 | 10 | | -0.20 | 698.58 | | |
| F.S. | | 695.23 | -0.41 | -0.041 | 10 | 695.64 | -1.48 | -0.041 | 36 | - | - | - | - | 697.12 | 0.03 | 0.041 | 0.77 | 697.15 | -0.17 | | 9.24 | 696.98 | 78+50.00 | 696.71 | 9.30 | -0.041 | -0.38 | 697.09 | 0.71 | -0.041 | -0.03 | 697.12 | - | - | - | - | 36 | 0.041 | 1.48 | 698.60 | 10 | | -0.20 | 698.40 | | F.S. |
| | | 694.98 | -0.41 | -0.041 | 10 | 695.39 | -1.48 | -0.041 | 36 | - | - | - | - | 696.87 | 0.02 | 0.041 | 0.39 | 696.89 | -0.18 | | 9.62 | 696.71 | 78+75.00 | 696.46 | 9.65 | -0.041 | -0.40 | 696.86 | 0.36 | -0.041 | -0.01 | 696.87 | - | - | - | - | 36 | 0.041 | 1.48 | 698.35 | 10 | | -0.20 | 698.15 | | |
| END INT. EOP | | 694.73 | -0.41 | -0.041 | 10 | 695.14 | -1.48 | -0.041 | 36 | - | - | - | - | 696.62 | 0.00 | 0.041 | 0 | 696.62 | -0.20 | | 10 | 696.42 | 79+00.00 | 696.21 | 10 | -0.041 | -0.41 | 696.62 | 0 | -0.041 | 0.00 | 696.62 | - | - | - | - | 36 | 0.041 | 1.48 | 698.10 | 10 | | -0.20 | 697.90 | | END INT. EOP |
| | | 694.48 | -0.41 | -0.041 | 10 | 694.89 | -1.48 | -0.041 | 36 | - | - | - | - | 696.37 | - | - | - | - | -0.20 | | 10 | 696.17 | 79+25.00 | 695.96 | 10 | -0.041 | -0.41 | - | - | - | - | 696.37 | - | - | - | - | 36 | 0.041 | 1.48 | 697.85 | 10 | | -0.20 | 697.65 | | |
| | | 694.24 | -0.41 | -0.041 | 10 | 694.65 | -1.48 | -0.041 | 36 | - | - | - | - | 696.13 | - | - | - | - | -0.20 | | 10 | 695.93 | 79+50.00 | 695.72 | 10 | -0.041 | -0.41 | - | - | - | - | 696.13 | - | - | - | - | 36 | 0.041 | 1.48 | 697.61 | 10 | | -0.20 | 697.41 | | |
| | | 693.99 | -0.41 | -0.041 | 10 | 694.40 | -1.48 | -0.041 | 36 | - | - | - | - | 695.88 | - | - | - | - | -0.20 | | 10 | 695.68 | 79+75.00 | 695.47 | 10 | -0.041 | -0.41 | - | - | - | - | 695.88 | - | - | - | - | 36 | 0.041 | 1.48 | 697.36 | 10 | | -0.20 | 697.16 | | |
| | | 693.75 | -0.41 | -0.041 | 10 | 694.16 | -1.48 | -0.041 | 36 | - | - | - | - | 695.64 | - | - | - | - | -0.20 | | 10 | 695.44 | 80+00.00 | 695.23 | 10 | -0.041 | -0.41 | - | - | - | - | 695.64 | - | - | - | - | 36 | 0.041 | 1.48 | 697.12 | 10 | | -0.20 | 696.92 | | |
| | | 693.53 | -0.41 | -0.041 | 10 | 693.94 | -1.48 | -0.041 | 36 | - | - | - | - | 695.42 | - | - | - | - | -0.20 | | 10 | 695.22 | 80+25.00 | 695.01 | 10 | -0.041 | -0.41 | - | - | - | - | 695.42 | - | - | - | - | 36 | 0.041 | 1.48 | 696.90 | 10 | | -0.20 | 696.70 | | |
| | | 693.33 | -0.41 | -0.041 | 10 | 693.74 | -1.48 | -0.041 | 36 | - | - | - | - | 695.22 | - | - | - | - | -0.20 | | 10 | 695.02 | 80+50.00 | 694.81 | 10 | -0.041 | -0.41 | - | - | - | - | 695.22 | - | - | - | - | 36 | 0.041 | 1.48 | 696.70 | | | | | | |
| | | 693.16 | -0.41 | -0.041 | 10 | 693.57 | -1.48 | -0.041 | 36 | - | - | - | - | 695.05 | - | - | - | - | -0.20 | | 10 | 694.85 | 80+75.00 | 694.64 | 10 | -0.041 | -0.41 | - | - | - | - | 695.05 | - | - | - | - | 36 | 0.041 | 1.48 | 696.53 | | | | | | |
| | | 693.00 | -0.41 | -0.041 | 10 | 693.41 | -1.48 | -0.041 | 36 | - | - | - | - | 694.89 | - | - | - | - | -0.20 | | 10 | 694.69 | 81+00.00 | 694.48 | 10 | -0.041 | -0.41 | - | - | - | - | 694.89 | - | - | - | - | 36 | 0.041 | 1.48 | 696.37 | | | | | | |
| | | 692.87 | -0.41 | -0.041 | 10 | 693.28 | -1.48 | -0.041 | 36 | - | - | - | - | 694.76 | - | - | - | - | -0.20 | | 10 | 694.56 | 81+25.00 | 694.35 | 10 | -0.041 | -0.41 | - | - | - | - | 694.76 | - | - | - | - | 36 | 0.041 | 1.48 | 696.24 | | | | | | |
| | | 692.77 | -0.41 | -0.041 | 10 | 693.18 | -1.48 | -0.041 | 36 | - | - | - | - | 694.66 | - | - | - | - | -0.20 | | 10 | 694.46 | 81+50.00 | 694.25 | 10 | -0.041 | -0.41 | - | - | - | - | 694.66 | - | - | - | - | 36 | 0.041 | 1.48 | 696.14 | | | | | | |
| | | 692.68 | -0.41 | -0.041 | 10 | 693.09 | -1.48 | -0.041 | 36 | - | - | - | - | 694.57 | - | - | - | - | -0.20 | | 10 | 694.37 | 81+75.00 | 694.16 | 10 | -0.041 | -0.41 | - | - | - | - | 694.57 | - | - | - | - | 36 | 0.041 | 1.48 | 696.05 | | | | | | |
| | | 692.62 | -0.41 | -0.041 | 10 | 693.03 | -1.48 | -0.041 | 36 | - | - | - | - | 694.51 | - | - | - | - | -0.20 | | 10 | 694.31 | 82+00.00 | 694.10 | 10 | -0.041 | -0.41 | - | - | - | - | 694.51 | - | - | - | - | 36 | 0.041 | 1.48 | 695.99 | | | | | | |
| | | 692.58 | -0.41 | -0.041 | 10 | 692.99 | -1.48 | -0.041 | 36 | - | - | - | - | 694.47 | - | - | - | - | -0.20 | | 10 | 694.27 | 82+25.00 | 694.06 | 10 | -0.041 | -0.41 | - | - | - | - | 694.47 | - | - | - | - | 36 | 0.041 | 1.48 | 695.95 | | | | | | |
| | | 692.56 | -0.41 | -0.041 | 10 | 692.97 | -1.48 | -0.041 | 36 | - | - | - | - | 694.45 | - | - | - | - | -0.20 | | 10 | 694.25 | 82+50.00 | 694.04 | 10 | -0.041 | -0.41 | - | - | - | - | 694.45 | - | - | - | - | 36 | 0.041 | 1.48 | 695.93 | | | | | | |
| | | 692.57 | -0.41 | -0.041 | 10 | 692.98 | -1.48 | -0.041 | 36 | - | - | - | - | 694.46 | - | - | - | - | -0.20 | | 10 | 694.26 | 82+75.00 | 694.05 | 10 | -0.041 | -0.41 | - | - | - | - | 694.46 | - | - | - | - | 36 | 0.041 | 1.48 | 695.94 | | | | | | |
| | | 692.60 | -0.41 | -0.041 | 10 | 693.01 | -1.48 | -0.041 | 36 | - | - | - | - | 694.49 | - | - | - | - | -0.20 | | 10 | 694.29 | 83+00.00 | 694.08 | 10 | -0.041 | -0.41 | - | - | - | - | 694.49 | - | - | - | - | 36 | 0.041 | 1.48 | 695.97 | | | | | | |
| | | 692.64 | -0.41 | -0.041 | 10 | 693.05 | -1.48 | -0.041 | 36 | - | - | - | - | 694.53 | - | - | - | - | -0.20 | | 10 | 694.33 | 83+25.00 | 694.12 | 10 | -0.041 | -0.41 | - | - | - | - | 694.53 | - | - | - | - | 36 | 0.041 | 1.48 | 696.01 | | | | | | |
| | | 692.72 | -0.41 | -0.041 | 10 | 693.13 | -1.48 | -0.041 | 36 | - | - | - | - | 694.61 | - | - | - | - | -0.20 | | 10 | 694.41 | 83+50.00 | 694.20 | 10 | -0.041 | -0.41 | - | - | - | - | 694.61 | - | - | - | - | 36 | 0.041 | 1.48 | 696.09 | | | | | | |
| | | 692.81 | -0.41 | -0.041 | 10 | 693.22 | -1.48 | -0.041 | 36 | - | - | - | - | 694.70 | - | - | - | - | -0.20 | | 10 | 694.50 | 83+75.00 | 694.29 | 10 | -0.041 | -0.41 | - | - | - | - | 694.70 | - | - | - | - | 36 | 0.041 | 1.48 | 696.18 | | | | | | |
| | | | | | | 693.34 | -1.48 | -0.041 | 36 | - | - | - | - | 694.82 | - | - | - | - | -0.20 | | 10 | 694.62 | 84+00.00 | 694.41 | 10 | -0.041 | -0.41 | - | - | - | - | 694.82 | - | - | - | - | 36 | 0.041 | 1.48 | 696.30 | | | | | | |
| | | | | | | 693.48 | -1.48 | -0.041 | 36 | - | - | - | - | 694.96 | - | - | - | - | -0.20 | | 10 | 694.76 | 84+25.00 | 694.55 | 10 | -0.041 | -0.41 | - | - | - | - | 694.96 | - | - | - | - | 36 | 0.041 | 1.48 | 696.44 | | | | | | |
| | | | | | | 693.64 | -1.48 | -0.041 | 36 | - | - | - | - | 695.12 | - | - | - | - | -0.20 | | 10 | 694.92 | 84+50.00 | 694.71 | 10 | -0.041 | -0.41 | - | - | - | - | 695.12 | - | - | - | - | 36 | 0.041 | 1.48 | 696.60 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION | | | | | |
| | | | | | | 693.83 | -1.48 | -0.041 | 36 | - | - | - | - | 695.31 | - | - | - | - | -0.20 | | 10 | 695.11 | 84+75.00 | 694.90 | 10 | -0.041 | -0.41 | - | - | - | - | 695.31 | - | - | - | - | 36 | 0.041 | 1.48 | 696.79 | | | | | | |
| | | | | | | 694.03 | -1.48 | -0.041 | 36 | - | - | - | - | 695.51 | - | - | - | - | -0.20 | | 10 | 695.31 | 85+00.00 | 695.10 | 10 | -0.041 | -0.41 | - | - | - | - | 695.51 | - | - | - | - | 36 | 0.041 | 1.48 | 696.99 | | | | | | |
| | | | | | | 694.23 | -1.48 | -0.041 | 36 | - | - | - | - | 695.71 | - | - | - | - | -0.20 | | 10 | 695.51 | 85+25.00 | 695.30 | 10 | -0.041 | -0.41 | - | - | - | - | 695.71 | - | - | - | - | 36 | 0.041 | 1.48 | 697.19 | | | | | | |
| | | | | | | 694.43 | -1.48 | -0.041 | 36 | - | - | - | - | 695.91 | - | - | - | - | -0.20 | | 10 | 695.71 | 85+50.00 | 695.50 | 10 | -0.041 | -0.41 | - | - | - | - | 695.91 | - | - | - | - | 36 | 0.041 | 1.48 | 697.39 | | | | | | |
| | | | | | | 694.63 | -1.48 | -0.041 | 36 | - | - | - | - | 696.11 | - | - | - | - | -0.20 | | 10 | 695.91 | 85+75.00 | 695.70 | 10 | -0.041 | -0.41 | - | - | - | - | 696.11 | - | - | - | - | 36 | 0.041 | 1.48 | 697.59 | | | | | | |
| | | | | | | 694.83 | -1.48 | -0.041 | 36 | - | - | - | - | 696.31 | - | - | - | - | -0.20 | | 10 | 696.11 | 86+00.00 | 695.90 | 10 | -0.041 | -0.41 | - | - | - | - | 696.31 | - | - | - | - | 36 | 0.041 | 1.48 | 697.79 | | | | | | |
| | | | | | | 695.02 | -1.48 | -0.041 | 36 | - | - | - | - | 696.50 | - | - | - | - | -0.20 | | 10 | 696.30 | 86+25.00 | 696.09 | 10 | -0.041 | -0.41 | - | - | - | - | 696.50 | - | - | - | - | 36 | 0.041 | 1.48 | 697.98 | | | | | | |
| | | | | | | 695.20 | -1.48 | -0.041 | 36 | - | - | - | - | 696.68 | - | - | - | - | -0.20 | | 10 | 696.48 | 86+50.00 | 696.27 | 10 | -0.041 | -0.41 | - | - | - | - | 696.68 | - | - | - | - | 36 | 0.041 | 1.48 | 698.16 | | | | | | |
| | | | | | | 695.38 | -1.48 | -0.041 | 36 | - | - | - | - | 696.86 | - | - | - | - | -0.20 | | 10 | 696.66 | 86+75.00 | 696.45 | 10 | -0.041 | -0.41 | - | - | - | - | 696.86 | - | - | - | - | 36 | 0.041 | 1.48 | 698.34 | | | | | | |
| | | | | | | 695.53 | -1.48 | -0.041 | 36 | - | - | - | - | 697.01 | - | - | - | - | -0.20 | | 10 | 696.81 | 87+00.00 | 696.60 | 10 | -0.041 | -0.41 | - | - | - | - | 697.01 | - | - | - | - | 36 | 0.041 | 1.48 | 698.49 | | | | | | |
| | | | | | | 695.68 | -1.48 | -0.041 | 36 | - | - | - | - | 697.16 | - | - | - | - | -0.20 | | 10 | 696.96 | 87+25.00 | 696.75 | 10 | -0.041 | -0.41 | - | - | - | - | 697.16 | - | - | - | - | 36 | 0.041 | 1.48 | 698.64 | | | | | | |
| | | | | | | 695.82 | -1.48 | -0.041 | 36 | - | - | - | - | 697.30 | - | - | - | - | -0.20 | | 10 | 697.10 | 87+50.00 | 696.89 | 10 | -0.041 | -0.41 | - | - | - | - | 697.30 | - | - | - | - | 36 | 0.041 | 1.48 | 698.78 | | | | | | |
| | | | | | | 695.94 | -1.48 | -0.041 | 36 | - | - | - | - | 697.42 | - | - | - | - | -0.20 | | 10 | 697.22 | 87+75.00 | 697.01 | 10 | -0.041 | -0.41 | - | - | - | - | 697.42 | - | - | - | - | 36 | 0.041 | 1.48 | 698.90 | | | | | | |
| | | | | | | 696.06 | -1.48 | -0.041 | 36 | - | - | - | - | 697.54 | - | - | - | - | -0.20 | | 10 | 697.34 | 88+00.00 | 697.13 | 10 | -0.041 | -0.41 | - | - | - | - | 697.54 | - | - | - | - | 36 | 0.041 | 1.48 | 699.02 | | | | | | |
| | | | | | | 696.16 | -1.48 | -0.041 | 36 | - | - | - | - | 697.64 | - | - | - | - | -0.20 | | 10 | 697.44 | 88+25.00 | 697.23 | 10 | -0.041 | -0.41 | - | - | - | - | 697.64 | - | - | - | - | 36 | 0.041 | 1.48 | 699.12 | | | | | | |
| | | | | | | 696.25 | -1.48 | -0.041 | 36 | - | - | - | - | 697.73 | - | - | - | - | -0.20 | | 10 | 697.53 | 88+50.00 | 697.32 | 10 | -0.041 | -0.41 | - | - | - | - | 697.73 | - | - | - | - | 36 | 0.041 | 1.48 | 699.21 | | | | | | |
| | | | | | | 696.32 | -1.48 | -0.041 | 36 | - | - | - | - | 697.80 | - | - | - | - | -0.20 | | 10 | 697.60 | 88+75.00 | 697.39 | 10 | -0.041 | -0.41 | - | - | - | - | 697.80 | - | - | - | - | 36 | 0.041 | 1.48 | 699.28 | | | | | | |
| | | | | | | 696.39 | -1.48 | -0.041 | 36 | - | - | - | - | 697.87 | - | - | - | - | -0.20 | | 10 | 697.67 | 89+00.00 | 697.46 | 10 | -0.041 | -0.41 | - | - | - | - | 697.87 | - | - | - | - | 36 | 0.041 | 1.48 | 699.35 | | | | | | |
| | | | | | | 696.44 | -1.48 | -0.041 | 36 | - | - | - | - | 697.92 | - | - | - | - | -0.20 | | 10 | 697.72 | 89+25.00 | 697.51 | 10 | -0.041 | -0.41 | - | - | - | - | 697.92 | - | - | - | - | 36 | 0.041 | 1.48 | 699.40 | | | | | | |

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans - Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 1

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.610 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-1 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:15 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GE001.dgn

# SUPERELEVATION TABLE - CURVE 1

| REMARKS | P.I. STATION 86+50.82 — LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°30'00" LT — RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | INTERIM EOP ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | INTERIM EOP ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| | | 696.00 | -0.49 | -0.041 | 12 | 696.49 | -1.48 | -0.041 | 36 | - | - | - | - | 697.97 | - | - | - | - | -0.20 | HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE | 10 | 697.77 | 89+50.00 | 697.56 | 10 | -0.041 | -0.41 | - | - | - | - | 697.97 | - | - | - | - | 36 | 0.041 | 1.48 | 699.45 | | | | | | |
| | | 696.03 | -0.49 | -0.041 | 12 | 696.52 | -1.48 | -0.041 | 36 | - | - | - | - | 698.00 | - | - | - | - | -0.20 | | 10 | 697.80 | 89+75.00 | 697.59 | 10 | -0.041 | -0.41 | - | - | - | - | 698.00 | - | - | - | - | 36 | 0.041 | 1.48 | 699.48 | | | | | | |
| | | 696.05 | -0.49 | -0.041 | 12 | 696.54 | -1.48 | -0.041 | 36 | - | - | - | - | 698.02 | - | - | - | - | -0.20 | | 10 | 697.82 | 90+00.00 | 697.61 | 10 | -0.041 | -0.41 | - | - | - | - | 698.02 | - | - | - | - | 36 | 0.041 | 1.48 | 699.50 | | | | | | |
| | | 696.05 | -0.49 | -0.041 | 12 | 696.54 | -1.48 | -0.041 | 36 | - | - | - | - | 698.02 | - | - | - | - | -0.20 | | 10 | 697.82 | 90+25.00 | 697.61 | 10 | -0.041 | -0.41 | - | - | - | - | 698.02 | - | - | - | - | 36 | 0.041 | 1.48 | 699.50 | | | | | | |
| | | 696.05 | -0.49 | -0.041 | 12 | 696.54 | -1.48 | -0.041 | 36 | - | - | - | - | 698.02 | - | - | - | - | -0.20 | | 10 | 697.82 | 90+50.00 | 697.61 | 10 | -0.041 | -0.41 | - | - | - | - | 698.02 | - | - | - | - | 36 | 0.041 | 1.48 | 699.50 | | | | | | |
| | | 696.03 | -0.49 | -0.041 | 12 | 696.52 | -1.48 | -0.041 | 36 | - | - | - | - | 698.00 | - | - | - | - | -0.20 | | 10 | 697.80 | 90+75.00 | 697.59 | 10 | -0.041 | -0.41 | - | - | - | - | 698.00 | - | - | - | - | 36 | 0.041 | 1.48 | 699.48 | | | | | | |
| | | 696.01 | -0.49 | -0.041 | 12 | 696.50 | -1.48 | -0.041 | 36 | - | - | - | - | 697.98 | - | - | - | - | -0.20 | | 10 | 697.78 | 91+00.00 | 697.57 | 10 | -0.041 | -0.41 | - | - | - | - | 697.98 | - | - | - | - | 36 | 0.041 | 1.48 | 699.46 | | | | | | |
| | | 695.97 | -0.49 | -0.041 | 12 | 696.46 | -1.48 | -0.041 | 36 | - | - | - | - | 697.94 | - | - | - | - | -0.20 | | 10 | 697.74 | 91+25.00 | 697.53 | 10 | -0.041 | -0.41 | - | - | - | - | 697.94 | - | - | - | - | 36 | 0.041 | 1.48 | 699.42 | | | | | | |
| | | 695.92 | -0.49 | -0.041 | 12 | 696.41 | -1.48 | -0.041 | 36 | - | - | - | - | 697.89 | - | - | - | - | -0.20 | | 10 | 697.69 | 91+50.00 | 697.48 | 10 | -0.041 | -0.41 | - | - | - | - | 697.89 | - | - | - | - | 36 | 0.041 | 1.48 | 699.37 | | | | | | |
| | | 695.85 | -0.49 | -0.041 | 12 | 696.34 | -1.48 | -0.041 | 36 | - | - | - | - | 697.82 | - | - | - | - | -0.20 | | 10 | 697.62 | 91+75.00 | 697.41 | 10 | -0.041 | -0.41 | - | - | - | - | 697.82 | - | - | - | - | 36 | 0.041 | 1.48 | 699.30 | | | | | | |
| | | 695.78 | -0.49 | -0.041 | 12 | 696.27 | -1.48 | -0.041 | 36 | - | - | - | - | 697.75 | - | - | - | - | -0.20 | | 10 | 697.55 | 92+00.00 | 697.34 | 10 | -0.041 | -0.41 | - | - | - | - | 697.75 | - | - | - | - | 36 | 0.041 | 1.48 | 699.23 | | | | | | |
| | | 695.69 | -0.49 | -0.041 | 12 | 696.18 | -1.48 | -0.041 | 36 | - | - | - | - | 697.66 | - | - | - | - | -0.20 | | 10 | 697.46 | 92+25.00 | 697.25 | 10 | -0.041 | -0.41 | - | - | - | - | 697.66 | - | - | - | - | 36 | 0.041 | 1.48 | 699.14 | | | | | | |
| | | 695.60 | -0.49 | -0.041 | 12 | 696.09 | -1.48 | -0.041 | 36 | - | - | - | - | 697.57 | - | - | - | - | -0.20 | | 10 | 697.37 | 92+50.00 | 697.16 | 10 | -0.041 | -0.41 | - | - | - | - | 697.57 | - | - | - | - | 36 | 0.041 | 1.48 | 699.05 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION | | | | | | |
| | | 695.49 | -0.49 | -0.041 | 12 | 695.98 | -1.48 | -0.041 | 36 | - | - | - | - | 697.46 | - | - | - | - | -0.20 | | 10 | 697.26 | 92+75.00 | 697.05 | 10 | -0.041 | -0.41 | - | - | - | - | 697.46 | - | - | - | - | 36 | 0.041 | 1.48 | 698.94 | | | | | | |
| | | 695.37 | -0.49 | -0.041 | 12 | 695.86 | -1.48 | -0.041 | 36 | - | - | - | - | 697.34 | - | - | - | - | -0.20 | | 10 | 697.14 | 93+00.00 | 696.93 | 10 | -0.041 | -0.41 | - | - | - | - | 697.34 | - | - | - | - | 36 | 0.041 | 1.48 | 698.82 | | | | | | |
| | | 695.23 | -0.49 | -0.041 | 12 | 695.72 | -1.48 | -0.041 | 36 | - | - | - | - | 697.20 | - | - | - | - | -0.20 | | 10 | 697.00 | 93+25.00 | 696.79 | 10 | -0.041 | -0.41 | - | - | - | - | 697.20 | - | - | - | - | 36 | 0.041 | 1.48 | 698.68 | | | | | | |
| | | 695.09 | -0.49 | -0.041 | 12 | 695.58 | -1.48 | -0.041 | 36 | - | - | - | - | 697.06 | - | - | - | - | -0.20 | | 10 | 696.86 | 93+50.00 | 696.65 | 10 | -0.041 | -0.41 | - | - | - | - | 697.06 | - | - | - | - | 36 | 0.041 | 1.48 | 698.54 | | | | | | |
| | | | | | | 695.42 | -1.48 | -0.041 | 36 | - | - | - | - | 696.90 | - | - | - | - | -0.20 | | 10 | 696.70 | 93+75.00 | 696.49 | 10 | -0.041 | -0.41 | - | - | - | - | 696.90 | - | - | - | - | 36 | 0.041 | 1.48 | 698.38 | | | | | | |
| | | | | | | 695.26 | -1.48 | -0.041 | 36 | - | - | - | - | 696.74 | - | - | - | - | -0.20 | | 10 | 696.54 | 94+00.00 | 696.33 | 10 | -0.041 | -0.41 | - | - | - | - | 696.74 | - | - | - | - | 36 | 0.041 | 1.48 | 698.22 | | | | | | |
| | | | | | | 695.08 | -1.48 | -0.041 | 36 | - | - | - | - | 696.56 | - | - | - | - | -0.20 | | 10 | 696.36 | 94+25.00 | 696.15 | 10 | -0.041 | -0.41 | - | - | - | - | 696.56 | - | - | - | - | 36 | 0.041 | 1.48 | 698.04 | | | | | | |
| | | | | | | 694.89 | -1.48 | -0.041 | 36 | - | - | - | - | 696.37 | - | - | - | - | -0.20 | | 10 | 696.17 | 94+50.00 | 695.96 | 10 | -0.041 | -0.41 | - | - | - | - | 696.37 | - | - | - | - | 36 | 0.041 | 1.48 | 697.85 | | | | | | |
| | | | | | | 694.68 | -1.48 | -0.041 | 36 | - | - | - | - | 696.16 | - | - | - | - | -0.20 | | 10 | 695.96 | 94+75.00 | 695.75 | 10 | -0.041 | -0.41 | - | - | - | - | 696.16 | - | - | - | - | 36 | 0.041 | 1.48 | 697.64 | | | | | | |
| | | | | | | 694.47 | -1.48 | -0.041 | 36 | - | - | - | - | 695.95 | - | - | - | - | -0.20 | | 10 | 695.75 | 95+00.00 | 695.54 | 10 | -0.041 | -0.41 | - | - | - | - | 695.95 | - | - | - | - | 36 | 0.041 | 1.48 | 697.43 | | | | | | |
| | | | | | | 694.24 | -1.48 | -0.041 | 36 | - | - | - | - | 695.72 | - | - | - | - | -0.20 | | 10 | 695.52 | 95+25.00 | 695.31 | 10 | -0.041 | -0.41 | - | - | - | - | 695.72 | - | - | - | - | 36 | 0.041 | 1.48 | 697.20 | | | | | | |
| | | | | | | 694.00 | -1.48 | -0.041 | 36 | - | - | - | - | 695.48 | - | - | - | - | -0.20 | | 10 | 695.28 | 95+50.00 | 695.07 | 10 | -0.041 | -0.41 | - | - | - | - | 695.48 | - | - | - | - | 36 | 0.041 | 1.48 | 696.96 | | | | | | |
| | | | | | | 693.76 | -1.48 | -0.041 | 36 | - | - | - | - | 695.24 | - | - | - | - | -0.20 | | 10 | 695.04 | 95+75.00 | 694.83 | 10 | -0.041 | -0.41 | - | - | - | - | 695.24 | - | - | - | - | 36 | 0.041 | 1.48 | 696.72 | | | | | | |
| F.S. | | | | | | 694.05 | -0.49 | -0.041 | 24 | 694.54 | -0.49 | -0.041 | 12 | 695.03 | - | - | - | - | -0.20 | | 10 | 694.83 | 95+95.00 | 694.62 | 10 | -0.041 | -0.41 | - | - | - | - | 695.03 | 12 | 0.041 | 0.49 | 695.52 | 24 | 0.041 | 0.98 | 696.50 | | | | | | F.S. |
| | | | | | | 694.01 | -0.48 | -0.040 | 24 | 694.49 | -0.48 | -0.040 | 12 | 694.97 | - | - | - | - | -0.20 | | 10 | 694.77 | 96+00.00 | 694.57 | 10 | -0.040 | -0.40 | - | - | - | - | 694.97 | 12 | 0.040 | 0.48 | 695.45 | 24 | 0.040 | 0.96 | 696.41 | 10 | H.S. SHLD W/ RNDNG | -0.20 | 696.21 | | |
| | | | | | | 693.80 | -0.45 | -0.038 | 24 | 694.25 | -0.46 | -0.038 | 12 | 694.71 | - | - | - | - | -0.20 | | 10 | 694.51 | 96+25.00 | 694.31 | 10 | -0.040 | -0.40 | - | - | - | - | 694.71 | 12 | 0.038 | 0.46 | 695.17 | 24 | 0.038 | 0.91 | 696.08 | 10 | | -0.20 | 695.88 | | |
| | | | | | | 693.60 | -0.42 | -0.035 | 24 | 694.02 | -0.42 | -0.035 | 12 | 694.44 | - | - | - | - | -0.21 | | 10 | 694.23 | 96+50.00 | 694.04 | 10 | -0.040 | -0.40 | - | - | - | - | 694.44 | 12 | 0.035 | 0.42 | 694.86 | 24 | 0.035 | 0.84 | 695.70 | 10 | | -0.21 | 695.49 | | |
| | | | | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION | | 693.40 | -0.39 | -0.032 | 24 | 693.79 | -0.38 | -0.032 | 12 | 694.17 | - | - | - | - | -0.22 | | 10 | 693.95 | 96+75.00 | 693.77 | 10 | -0.040 | -0.40 | - | - | - | - | 694.17 | 12 | 0.032 | 0.38 | 694.55 | 24 | 0.032 | 0.77 | 695.32 | 10 | | -0.22 | 695.10 | | |
| | | | | | | 693.21 | -0.35 | -0.029 | 24 | 693.56 | -0.35 | -0.029 | 12 | 693.91 | - | - | - | - | -0.40 | -0.040 | 10 | 693.51 | 97+00.00 | 693.51 | 10 | -0.040 | -0.40 | - | - | - | - | 693.91 | 12 | 0.029 | 0.35 | 694.26 | 24 | 0.029 | 0.70 | 694.96 | 10 | -0.040 | -0.40 | 694.56 | | |
| P.T. | | | | | | 693.10 | -0.33 | -0.028 | 24 | 693.43 | -0.34 | -0.028 | 12 | 693.77 | - | - | - | - | -0.40 | -0.040 | 10 | 693.37 | 97+13.27 | 693.37 | 10 | -0.040 | -0.40 | - | - | - | - | 693.77 | 12 | 0.028 | 0.34 | 694.11 | 24 | 0.028 | 0.67 | 694.78 | 10 | -0.040 | -0.40 | 694.38 | | P.T. |
| | | | | | | 692.99 | -0.33 | -0.027 | 24 | 693.32 | -0.32 | -0.027 | 12 | 693.64 | - | - | - | - | -0.40 | -0.040 | 10 | 693.24 | 97+25.00 | 693.24 | 10 | -0.040 | -0.40 | - | - | - | - | 693.64 | 12 | 0.027 | 0.32 | 693.96 | 24 | 0.027 | 0.65 | 694.61 | 10 | -0.040 | -0.40 | 694.21 | | |
| | | | | | | 692.82 | -0.27 | -0.023 | 24 | 693.09 | -0.28 | -0.023 | 12 | 693.37 | - | - | - | - | -0.40 | -0.040 | 10 | 692.97 | 97+50.00 | 692.97 | 10 | -0.040 | -0.40 | - | - | - | - | 693.37 | 12 | 0.023 | 0.28 | 693.65 | 24 | 0.023 | 0.55 | 694.20 | 10 | -0.040 | -0.40 | 693.80 | | |
| | | | | | | 692.63 | -0.24 | -0.020 | 24 | 692.87 | -0.24 | -0.020 | 12 | 693.11 | - | - | - | - | -0.40 | -0.040 | 10 | 692.71 | 97+75.00 | 692.71 | 10 | -0.040 | -0.40 | - | - | - | - | 693.11 | 12 | 0.020 | 0.24 | 693.35 | 24 | 0.020 | 0.48 | 693.83 | 10 | -0.040 | -0.40 | 693.43 | | |
| | | 233 : 1 | | | | 692.43 | -0.21 | -0.017 | 24 | 692.64 | -0.20 | -0.017 | 12 | 692.84 | - | - | - | - | -0.40 | -0.040 | 10 | 692.44 | 98+00.00 | 692.44 | 10 | -0.040 | -0.40 | - | - | - | - | 692.84 | 12 | 0.017 | 0.20 | 693.04 | 24 | 0.017 | 0.41 | 693.45 | 10 | -0.040 | -0.40 | 693.05 | 233 : 1 | |
| R.C. | | | | | | 692.35 | -0.19 | -0.016 | 24 | 692.54 | -0.19 | -0.016 | 12 | 692.73 | - | - | - | - | -0.40 | -0.040 | 10 | 692.33 | 98+10.00 | 692.33 | 10 | -0.040 | -0.40 | - | - | - | - | 692.73 | 12 | 0.016 | 0.19 | 692.92 | 24 | 0.016 | 0.38 | 693.30 | 10 | -0.040 | -0.40 | 692.90 | | R.C. |
| | | | | | | 692.19 | -0.25 | -0.016 | 24 | 692.44 | -0.13 | -0.011 | 12 | 692.57 | - | - | - | - | -0.40 | -0.040 | 10 | 692.17 | 98+25.00 | 692.17 | 10 | -0.040 | -0.40 | - | - | - | - | 692.57 | 12 | 0.016 | 0.19 | 692.76 | 24 | 0.013 | 0.31 | 693.07 | 10 | -0.040 | -0.40 | 692.67 | | |
| | | | | | | 691.93 | -0.36 | -0.016 | 24 | 692.29 | -0.02 | -0.002 | 12 | 692.31 | - | - | - | - | -0.40 | -0.040 | 10 | 691.91 | 98+50.00 | 691.91 | 10 | -0.040 | -0.40 | - | - | - | - | 692.31 | 12 | 0.016 | 0.19 | 692.50 | 24 | 0.009 | 0.22 | 692.72 | 10 | -0.040 | -0.40 | 692.32 | | |
| ½ FLAT | | | | | | 691.87 | -0.38 | -0.016 | 24 | 692.25 | 0.00 | 0.000 | 12 | 692.25 | - | - | - | - | -0.40 | -0.040 | 10 | 691.85 | 98+55.00 | 691.85 | 10 | -0.040 | -0.40 | - | - | - | - | 692.25 | 12 | 0.016 | 0.19 | 692.44 | 24 | 0.008 | 0.19 | 692.63 | 10 | -0.040 | -0.40 | 692.23 | | |
| | | | | | | 691.66 | -0.46 | -0.016 | 24 | 692.12 | 0.08 | 0.007 | 12 | 692.04 | - | - | - | - | -0.40 | -0.040 | 10 | 691.64 | 98+75.00 | 691.64 | 10 | -0.040 | -0.40 | - | - | - | - | 692.04 | 12 | 0.016 | 0.19 | 692.23 | 24 | 0.004 | 0.10 | 692.33 | 10 | -0.040 | -0.40 | 691.93 | | |
| | | | | | | 691.39 | -0.57 | -0.016 | 24 | 691.96 | 0.19 | 0.016 | 12 | 691.77 | - | - | - | - | -0.40 | -0.040 | 10 | 691.37 | 99+00.00 | 691.37 | 10 | -0.040 | -0.40 | - | - | - | - | 691.77 | 12 | 0.016 | 0.19 | 691.96 | 24 | 0.000 | 0.00 | 691.96 | 10 | -0.040 | -0.40 | 691.56 | | ½ FLAT |
| | | | | | | 691.12 | -0.57 | -0.016 | 24 | 691.69 | 0.19 | 0.016 | 12 | 691.50 | - | - | - | - | -0.40 | -0.040 | 10 | 691.10 | 99+25.00 | 691.10 | 10 | -0.040 | -0.40 | - | - | - | - | 691.50 | 12 | 0.016 | 0.19 | 691.69 | 24 | -0.004 | -0.10 | 691.59 | 10 | -0.040 | -0.40 | 691.19 | | |
| | | | | | | 690.86 | -0.57 | -0.016 | 24 | 691.43 | 0.19 | 0.016 | 12 | 691.24 | - | - | - | - | -0.40 | -0.040 | 10 | 690.84 | 99+50.00 | 690.84 | 10 | -0.040 | -0.40 | - | - | - | - | 691.24 | 12 | 0.016 | 0.19 | 691.43 | 24 | -0.009 | -0.22 | 691.21 | 10 | -0.040 | -0.40 | 690.81 | | |
| | | | | | | 690.59 | -0.57 | -0.016 | 24 | 691.16 | 0.19 | 0.016 | 12 | 690.97 | - | - | - | - | -0.40 | -0.040 | 10 | 690.57 | 99+75.00 | 690.57 | 10 | -0.040 | -0.40 | - | - | - | - | 690.97 | 12 | 0.016 | 0.19 | 691.16 | 24 | -0.013 | -0.31 | 690.85 | 10 | -0.040 | -0.40 | 690.45 | | |
| N.C. | | | | | | 690.43 | -0.57 | -0.016 | 24 | 691.00 | 0.19 | 0.016 | 12 | 690.81 | - | - | - | - | -0.40 | -0.040 | 10 | 690.41 | 99+90.00 | 690.41 | 10 | -0.040 | -0.40 | - | - | - | - | 690.81 | 12 | 0.016 | 0.19 | 691.00 | 24 | -0.016 | -0.38 | 690.62 | 10 | -0.040 | -0.40 | 690.22 | | N.C. |

Preliminary Plans - For Reference Only

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

SUPERELEVATION TABLE
I.R. 77 CURVE 1

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.611 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-2 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:17 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\s00-Engineering\0-Engineering\Roadway\Sheets\105743_GE001.dgn

# SUPERELEVATION TABLE - CURVE 2

| REMARKS | P.I. STATION 117+76.34 — LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°15'00" RT — RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| N.C. | 233 : 1 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION | | | | 689.69 | -0.38 | -0.016 | 24 | 690.08 | 0.19 | 0.016 | 12 | 689.88 | -0.40 | -0.040 | 10 | 689.48 | 100+75.00 | 689.48 | 10 | -0.040 | -0.40 | 689.88 | 12 | 0.016 | 0.19 | 690.08 | 24 | -0.016 | -0.38 | 689.69 | 10 | -0.040 | -0.40 | 689.29 | 233 : 1 | N.C. |
| | | | | | | 689.50 | -0.28 | -0.012 | 24 | 689.78 | 0.19 | 0.016 | 12 | 689.59 | -0.40 | -0.040 | 10 | 689.19 | 101+00.00 | 689.19 | 10 | -0.040 | -0.40 | 689.59 | 12 | 0.016 | 0.19 | 689.78 | 24 | -0.016 | -0.38 | 689.40 | 10 | -0.040 | -0.40 | 689.00 | | |
| | | | | | | 689.30 | -0.17 | -0.007 | 24 | 689.47 | 0.19 | 0.016 | 12 | 689.28 | -0.40 | -0.040 | 10 | 688.88 | 101+25.00 | 688.88 | 10 | -0.040 | -0.40 | 689.28 | 12 | 0.016 | 0.19 | 689.47 | 24 | -0.016 | -0.38 | 689.09 | 10 | -0.040 | -0.40 | 688.69 | | |
| | | | | | | 689.09 | -0.06 | -0.003 | 24 | 689.16 | 0.19 | 0.016 | 12 | 688.96 | -0.40 | -0.040 | 10 | 688.56 | 101+50.00 | 688.56 | 10 | -0.040 | -0.40 | 688.96 | 12 | 0.016 | 0.19 | 689.16 | 24 | -0.016 | -0.38 | 688.77 | 10 | -0.040 | -0.40 | 688.37 | | |
| ½ FLAT | | | | | | 688.96 | 0.00 | 0.000 | 24 | 688.96 | 0.19 | 0.016 | 12 | 688.77 | -0.40 | -0.040 | 10 | 688.37 | 101+65.00 | 688.37 | 10 | -0.040 | -0.40 | 688.77 | 12 | 0.016 | 0.19 | 688.96 | 24 | -0.016 | -0.38 | 688.58 | 10 | -0.040 | -0.40 | 688.18 | | |
| | | | | | | 688.87 | 0.04 | 0.002 | 24 | 688.83 | 0.19 | 0.016 | 12 | 688.63 | -0.40 | -0.040 | 10 | 688.23 | 101+75.00 | 688.23 | 10 | -0.040 | -0.40 | 688.63 | 12 | 0.012 | 0.15 | 688.78 | 24 | -0.016 | -0.38 | 688.40 | 10 | -0.031 | -0.31 | 688.09 | | |
| | | | | | | 688.63 | 0.15 | 0.006 | 24 | 688.48 | 0.19 | 0.016 | 12 | 688.29 | -0.40 | -0.040 | 10 | 687.89 | 102+00.00 | 687.89 | 10 | -0.040 | -0.40 | 688.29 | 12 | 0.004 | 0.04 | 688.33 | 24 | -0.016 | -0.38 | 687.95 | | | | | | | |
| | | | | | | 688.53 | 0.19 | 0.008 | 24 | 688.34 | 0.19 | 0.016 | 12 | 688.15 | -0.40 | -0.040 | 10 | 687.75 | 102+10.00 | 687.75 | 10 | -0.040 | -0.40 | 688.15 | 12 | 0.000 | 0.00 | 688.15 | 24 | -0.016 | -0.38 | 687.77 | | | | | | ½ FLAT |
| | | | | | | 688.39 | 0.26 | 0.011 | 24 | 688.13 | 0.19 | 0.016 | 12 | 687.94 | -0.40 | -0.040 | 10 | 687.54 | 102+25.00 | 687.54 | 10 | -0.040 | -0.40 | 687.94 | 12 | -0.005 | -0.06 | 687.88 | 24 | -0.016 | -0.38 | 687.49 | | | | | | |
| | | | | | | 688.13 | 0.36 | 0.015 | 24 | 687.77 | 0.19 | 0.016 | 12 | 687.58 | -0.40 | -0.040 | 10 | 687.18 | 102+50.00 | 687.18 | 10 | -0.040 | -0.40 | 687.58 | 12 | -0.014 | -0.17 | 687.41 | 24 | -0.016 | -0.38 | 687.02 | | | | | | |
| R.C. | | | | | | 688.08 | 0.38 | 0.016 | 24 | 687.69 | 0.19 | 0.016 | 12 | 687.50 | -0.40 | -0.040 | 10 | 687.10 | 102+55.00 | 687.10 | 10 | -0.040 | -0.40 | 687.50 | 12 | -0.016 | -0.19 | 687.31 | 24 | -0.016 | -0.38 | 686.92 | | | | | | R.C. |
| | | | | | | 687.87 | 0.44 | 0.018 | 24 | 687.43 | 0.22 | 0.018 | 12 | 687.22 | -0.40 | -0.040 | 10 | 686.82 | 102+75.00 | 686.82 | 10 | -0.040 | -0.40 | 687.22 | 12 | -0.018 | -0.22 | 687.00 | 24 | -0.018 | -0.44 | 686.56 | | | | | | |
| | | | | | | 687.61 | 0.51 | 0.021 | 24 | 687.10 | 0.25 | 0.021 | 12 | 686.85 | -0.40 | -0.040 | 10 | 686.45 | 103+00.00 | 686.45 | 10 | -0.040 | -0.40 | 686.85 | 12 | -0.021 | -0.25 | 686.60 | 24 | -0.021 | -0.51 | 686.09 | | | | | | |
| | | | | | | 687.35 | 0.57 | 0.024 | 24 | 686.78 | 0.29 | 0.024 | 12 | 686.49 | -0.40 | -0.040 | 10 | 686.09 | 103+25.00 | 686.09 | 10 | -0.040 | -0.40 | 686.49 | 12 | -0.024 | -0.29 | 686.20 | 24 | -0.024 | -0.57 | 685.63 | | | | | | |
| P.C. | | | | | | 687.34 | 0.58 | 0.024 | 24 | 686.77 | 0.29 | 0.024 | 12 | 686.48 | -0.40 | -0.040 | 10 | 686.08 | 103+25.93 | 686.08 | 10 | -0.040 | -0.40 | 686.48 | 12 | -0.024 | -0.29 | 686.19 | 24 | -0.024 | -0.58 | 685.62 | | | | | | P.C. |
| | | | | | | 687.09 | 0.64 | 0.027 | 24 | 686.45 | 0.32 | 0.027 | 12 | 686.13 | -0.40 | -0.040 | 10 | 685.73 | 103+50.00 | 685.73 | 10 | -0.040 | -0.40 | 686.13 | 12 | -0.027 | -0.32 | 685.81 | 24 | -0.027 | -0.64 | 685.16 | | | | | | |
| | | | | | | 686.83 | 0.71 | 0.030 | 24 | 686.12 | 0.36 | 0.030 | 12 | 685.77 | -0.40 | -0.040 | 10 | 685.37 | 103+75.00 | 685.37 | 10 | -0.040 | -0.40 | 685.77 | 12 | -0.030 | -0.36 | 685.41 | 24 | -0.030 | -0.71 | 684.70 | | | | | | |
| | | | | | | 686.58 | 0.78 | 0.033 | 24 | 685.79 | 0.39 | 0.033 | 12 | 685.40 | -0.40 | -0.040 | 10 | 685.00 | 104+00.00 | 685.19 | 10 | | -0.22 | 685.40 | 12 | -0.033 | -0.39 | 685.01 | 24 | -0.033 | -0.78 | 684.23 | | | | | | |
| | | | | | | 686.32 | 0.85 | 0.035 | 24 | 685.47 | 0.43 | 0.035 | 12 | 685.04 | -0.40 | -0.040 | 10 | 684.64 | 104+25.00 | 684.83 | 10 | | -0.21 | 685.04 | 12 | -0.035 | -0.43 | 684.62 | 24 | -0.035 | -0.85 | 683.77 | | | | | | |
| F.S. | | | | | | 686.27 | 0.86 | 0.036 | 24 | 685.40 | 0.43 | 0.036 | 12 | 684.97 | -0.40 | -0.040 | 10 | 684.57 | 104+30.00 | 684.76 | 10 | | -0.21 | 684.97 | 12 | -0.036 | -0.43 | 684.54 | 24 | -0.036 | -0.86 | 683.67 | | | | | | F.S. |
| | | | | | | 685.98 | 1.30 | 0.036 | 36 | - | - | - | - | 684.68 | -0.40 | -0.040 | 10 | 684.28 | 104+50.00 | 684.47 | 10 | | -0.21 | 684.68 | - | - | - | - | 36 | -0.036 | -1.30 | 683.38 | | | | | | |
| | | | | | | 685.61 | 1.30 | 0.036 | 36 | - | - | - | - | 684.32 | -0.40 | -0.040 | 10 | 683.92 | 104+75.00 | 684.11 | 10 | | -0.21 | 684.32 | - | - | - | - | 36 | -0.036 | -1.30 | 683.02 | | | | | | |
| | | | | | | 685.25 | 1.30 | 0.036 | 36 | - | - | - | - | 683.96 | -0.40 | -0.040 | 10 | 683.56 | 105+00.00 | 683.75 | 10 | | -0.21 | 683.96 | - | - | - | - | 36 | -0.036 | -1.30 | 682.66 | | | | | | |
| | | | | | | 684.89 | 1.30 | 0.036 | 36 | - | - | - | - | 683.59 | -0.40 | -0.040 | 10 | 683.19 | 105+25.00 | 683.38 | 10 | | -0.21 | 683.59 | - | - | - | - | 36 | -0.036 | -1.30 | 682.30 | | | | | | |
| | | | | | | 684.53 | 1.30 | 0.036 | 36 | - | - | - | - | 683.23 | -0.40 | -0.040 | 10 | 682.83 | 105+50.00 | 683.02 | 10 | | -0.21 | 683.23 | - | - | - | - | 36 | -0.036 | -1.30 | 681.94 | | | | | | |
| | | | | | | 684.17 | 1.30 | 0.036 | 36 | - | - | - | - | 682.87 | -0.40 | -0.040 | 10 | 682.47 | 105+75.00 | 682.66 | 10 | | -0.21 | 682.87 | - | - | - | - | 36 | -0.036 | -1.30 | 681.57 | | | | | | |
| | | | | | | 683.80 | 1.30 | 0.036 | 36 | - | - | - | - | 682.51 | -0.40 | -0.040 | 10 | 682.11 | 106+00.00 | 682.30 | 10 | | -0.21 | 682.51 | - | - | - | - | 36 | -0.036 | -1.30 | 681.21 | | | | | | |
| | | | | | | 683.44 | 1.30 | 0.036 | 36 | - | - | - | - | 682.15 | -0.40 | -0.040 | 10 | 681.75 | 106+25.00 | 681.94 | 10 | | -0.21 | 682.15 | - | - | - | - | 36 | -0.036 | -1.30 | 680.85 | | | | | | |
| | | | | | | 683.08 | 1.30 | 0.036 | 36 | - | - | - | - | 681.78 | -0.40 | -0.040 | 10 | 681.38 | 106+50.00 | 681.57 | 10 | | -0.21 | 681.78 | - | - | - | - | 36 | -0.036 | -1.30 | 680.49 | | | | | | |
| | | | | | | 682.72 | 1.30 | 0.036 | 36 | - | - | - | - | 681.42 | -0.40 | -0.040 | 10 | 681.02 | 106+75.00 | 681.21 | 10 | | -0.21 | 681.42 | - | - | - | - | 36 | -0.036 | -1.30 | 680.13 | 10 | -0.040 | -0.40 | 679.73 | | |
| | | | | | | 682.35 | 1.30 | 0.036 | 36 | - | - | - | - | 681.06 | -0.40 | -0.040 | 10 | 680.66 | 107+00.00 | 680.85 | 10 | | -0.21 | 681.06 | - | - | - | - | 36 | -0.036 | -1.30 | 679.76 | 10 | -0.040 | -0.40 | 679.36 | | |
| | | | | | | 681.99 | 1.30 | 0.036 | 36 | - | - | - | - | 680.70 | -0.40 | -0.040 | 10 | 680.30 | 107+25.00 | 680.49 | 10 | | -0.21 | 680.70 | - | - | - | - | 36 | -0.036 | -1.30 | 679.40 | 10 | -0.040 | -0.40 | 679.00 | | |
| | | | | | | 681.63 | 1.30 | 0.036 | 36 | - | - | - | - | 680.33 | -0.40 | -0.040 | 10 | 679.93 | 107+50.00 | 680.12 | 10 | | -0.21 | 680.33 | - | - | - | - | 36 | -0.036 | -1.30 | 679.04 | 10 | -0.040 | -0.40 | 678.64 | | |
| | | | | | | 681.27 | 1.30 | 0.036 | 36 | - | - | - | - | 679.97 | -0.40 | -0.040 | 10 | 679.57 | 107+75.00 | 679.76 | 10 | | -0.21 | 679.97 | - | - | - | - | 36 | -0.036 | -1.30 | 678.68 | 10 | -0.040 | -0.40 | 678.28 | | |
| | | | | | | 680.91 | 1.30 | 0.036 | 36 | - | - | - | - | 679.61 | -0.40 | -0.040 | 10 | 679.21 | 108+00.00 | 679.40 | 10 | | -0.21 | 679.61 | - | - | - | - | 36 | -0.036 | -1.30 | 678.31 | 10 | -0.040 | -0.40 | 677.91 | | |
| | | | | | | 680.54 | 1.30 | 0.036 | 36 | - | - | - | - | 679.25 | -0.40 | -0.040 | 10 | 678.85 | 108+25.00 | 679.04 | 10 | | -0.21 | 679.25 | - | - | - | - | 36 | -0.036 | -1.30 | 677.95 | 10 | -0.040 | -0.40 | 677.55 | | |
| | | | | | | 680.18 | 1.30 | 0.036 | 36 | - | - | - | - | 678.89 | -0.40 | -0.040 | 10 | 678.49 | 108+50.00 | 678.68 | 10 | | -0.21 | 678.89 | - | - | - | - | 36 | -0.036 | -1.30 | 677.59 | 10 | -0.040 | -0.40 | 677.19 | | |
| | | 679.61 | -0.21 | HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE | 10 | 679.82 | 1.30 | 0.036 | 36 | - | - | - | - | 678.52 | -0.40 | -0.040 | 10 | 678.12 | 108+75.00 | 678.31 | 10 | | -0.21 | 678.52 | - | - | - | - | 36 | -0.036 | -1.30 | 677.23 | 10 | -0.040 | -0.40 | 676.83 | | |
| | | 679.25 | -0.21 | | 10 | 679.46 | 1.30 | 0.036 | 36 | - | - | - | - | 678.16 | -0.40 | -0.040 | 10 | 677.76 | 109+00.00 | 677.95 | 10 | | -0.21 | 678.16 | - | - | - | - | 36 | -0.036 | -1.30 | 676.87 | 10 | -0.040 | -0.40 | 676.47 | | |
| | | 678.89 | -0.21 | | 10 | 679.10 | 1.30 | 0.036 | 36 | - | - | - | - | 677.80 | -0.40 | -0.040 | 10 | 677.40 | 109+25.00 | 677.59 | 10 | | -0.21 | 677.80 | - | - | - | - | 36 | -0.036 | -1.30 | 676.50 | 10 | -0.040 | -0.40 | 676.10 | | |
| | | 678.52 | -0.21 | | 10 | 678.73 | 1.30 | 0.036 | 36 | - | - | - | - | 677.44 | -0.40 | -0.040 | 10 | 677.04 | 109+50.00 | 677.23 | 10 | | -0.21 | 677.44 | - | - | - | - | 36 | -0.036 | -1.30 | 676.14 | 10 | -0.040 | -0.40 | 675.74 | | |
| | | 678.16 | -0.21 | | 10 | 678.37 | 1.30 | 0.036 | 36 | - | - | - | - | 677.08 | -0.40 | -0.040 | 10 | 676.68 | 109+75.00 | 676.87 | 10 | | -0.21 | 677.08 | - | - | - | - | 36 | -0.036 | -1.30 | 675.78 | 10 | -0.040 | -0.40 | 675.38 | | |
| | | 677.80 | -0.21 | | 10 | 678.01 | 1.30 | 0.036 | 36 | - | - | - | - | 676.71 | -0.40 | -0.040 | 10 | 676.31 | 110+00.00 | 676.50 | 10 | | -0.21 | 676.71 | - | - | - | - | 36 | -0.036 | -1.30 | 675.42 | 10 | -0.040 | -0.40 | 675.02 | | |
| | | 677.44 | -0.21 | | 10 | 677.65 | 1.30 | 0.036 | 36 | - | - | - | - | 676.35 | -0.40 | -0.040 | 10 | 675.95 | 110+25.00 | 676.14 | 10 | | -0.21 | 676.35 | - | - | - | - | 36 | -0.036 | -1.30 | 675.06 | 10 | -0.040 | -0.40 | 674.66 | | |
| | | 677.08 | -0.21 | | 10 | 677.29 | 1.30 | 0.036 | 36 | - | - | - | - | 675.99 | -0.40 | -0.040 | 10 | 675.59 | 110+50.00 | 675.78 | 10 | | -0.21 | 675.99 | - | - | - | - | 36 | -0.036 | -1.30 | 674.69 | 10 | -0.040 | -0.40 | 674.29 | | |
| | | 676.71 | -0.21 | | 10 | 676.92 | 1.30 | 0.036 | 36 | - | - | - | - | 675.63 | -0.40 | -0.040 | 10 | 675.23 | 110+75.00 | 675.42 | 10 | | -0.21 | 675.63 | - | - | - | - | 36 | -0.036 | -1.30 | 674.33 | 10 | -0.040 | -0.40 | 673.93 | | |
| | | 676.35 | -0.21 | | 10 | 676.56 | 1.30 | 0.036 | 36 | - | - | - | - | 675.26 | -0.40 | -0.040 | 10 | 674.86 | 111+00.00 | 675.05 | 10 | | -0.21 | 675.26 | - | - | - | - | 36 | -0.036 | -1.30 | 673.97 | 10 | -0.040 | -0.40 | 673.57 | | |
| | | 675.99 | -0.21 | | 10 | 676.20 | 1.30 | 0.036 | 36 | - | - | - | - | 674.90 | -0.40 | -0.040 | 10 | 674.50 | 111+25.00 | 674.69 | 10 | | -0.21 | 674.90 | - | - | - | - | 36 | -0.036 | -1.30 | 673.61 | 10 | -0.040 | -0.40 | 673.21 | | |
| | | 675.63 | -0.21 | | 10 | 675.84 | 1.30 | 0.036 | 36 | - | - | - | - | 674.54 | -0.40 | -0.040 | 10 | 674.14 | 111+50.00 | 674.33 | 10 | | -0.21 | 674.54 | - | - | - | - | 36 | -0.036 | -1.30 | 673.24 | 10 | -0.040 | -0.40 | 672.84 | | |
| | | 675.26 | -0.21 | | 10 | 675.47 | 1.30 | 0.036 | 36 | - | - | - | - | 674.18 | -0.40 | -0.040 | 10 | 673.78 | 111+75.00 | 673.97 | 10 | | -0.21 | 674.18 | - | - | - | - | 36 | -0.036 | -1.30 | 672.88 | 10 | -0.040 | -0.40 | 672.48 | | |
| | | 674.90 | -0.21 | | 10 | 675.11 | 1.30 | 0.036 | 36 | - | - | - | - | 673.82 | -0.40 | -0.040 | 10 | 673.42 | 112+00.00 | 673.61 | 10 | | -0.21 | 673.82 | - | - | - | - | 36 | -0.036 | -1.30 | 672.52 | 10 | -0.040 | -0.40 | 672.12 | | |
| | | 674.54 | -0.21 | | 10 | 674.75 | 1.30 | 0.036 | 36 | - | - | - | - | 673.45 | -0.40 | -0.040 | 10 | 673.05 | 112+25.00 | 673.24 | 10 | | -0.21 | 673.45 | - | - | - | - | 36 | -0.036 | -1.30 | 672.16 | 10 | -0.040 | -0.40 | 671.76 | | |
| | | 674.18 | -0.21 | | 10 | 674.39 | 1.30 | 0.036 | 36 | - | - | - | - | 673.09 | -0.40 | -0.040 | 10 | 672.69 | 112+50.00 | 672.88 | 10 | | -0.21 | 673.09 | - | - | - | - | 36 | -0.036 | -1.30 | 671.80 | 10 | -0.040 | -0.40 | 671.40 | | |
| | | 673.82 | -0.21 | | 10 | 674.03 | 1.30 | 0.036 | 36 | - | - | - | - | 672.73 | -0.40 | -0.040 | 10 | 672.33 | 112+75.00 | 672.52 | 10 | | -0.21 | 672.73 | - | - | - | - | 36 | -0.036 | -1.30 | 671.43 | 10 | -0.040 | -0.40 | 671.03 | | |
| | | 673.45 | -0.21 | | 10 | 673.66 | 1.30 | 0.036 | 36 | - | - | - | - | 672.37 | -0.40 | -0.040 | 10 | 671.97 | 113+00.00 | 672.16 | 10 | | -0.21 | 672.37 | - | - | - | - | 36 | -0.036 | -1.30 | 671.07 | 10 | -0.040 | -0.40 | 670.67 | | |
| | | 673.09 | -0.21 | | 10 | 673.30 | 1.30 | 0.036 | 36 | - | - | - | - | 672.01 | -0.40 | -0.040 | 10 | 671.61 | 113+25.00 | 671.80 | 10 | | -0.21 | 672.01 | - | - | - | - | 36 | -0.036 | -1.30 | 670.71 | 10 | -0.040 | -0.40 | 670.31 | | |
| | | 672.73 | -0.21 | | 10 | 672.94 | 1.30 | 0.036 | 36 | - | - | - | - | 671.64 | -0.40 | -0.040 | 10 | 671.24 | 113+50.00 | 671.43 | 10 | | -0.21 | 671.64 | - | - | - | - | 36 | -0.036 | -1.30 | 670.35 | 10 | -0.040 | -0.40 | 669.95 | | |
| | | 672.37 | -0.21 | | 10 | 672.58 | 1.30 | 0.036 | 36 | - | - | - | - | 671.28 | -0.40 | -0.040 | 10 | 670.88 | 113+75.00 | 671.07 | 10 | | -0.21 | 671.28 | - | - | - | - | 36 | -0.036 | -1.30 | 669.99 | 10 | -0.040 | -0.40 | 669.59 | | |
| | | 672.01 | -0.21 | | 10 | 672.22 | 1.30 | 0.036 | 36 | - | - | - | - | 670.92 | -0.40 | -0.040 | 10 | 670.52 | 114+00.00 | 670.71 | 10 | | -0.21 | 670.92 | - | - | - | - | 36 | -0.036 | -1.30 | 669.62 | 10 | -0.040 | -0.40 | 669.22 | | |
| | | 671.64 | -0.21 | | 10 | 671.85 | 1.30 | 0.036 | 36 | - | - | - | - | 670.56 | -0.40 | -0.040 | 10 | 670.16 | 114+25.00 | 670.35 | 10 | | -0.21 | 670.56 | - | - | - | - | 36 | -0.036 | -1.30 | 669.26 | 10 | -0.040 | -0.40 | 668.86 | | |
| | | 671.28 | -0.21 | | 10 | 671.49 | 1.30 | 0.036 | 36 | - | - | - | - | 670.19 | -0.40 | -0.040 | 10 | 669.79 | 114+50.00 | 669.98 | 10 | | -0.21 | 670.19 | - | - | - | - | 36 | -0.036 | -1.30 | 668.90 | 10 | -0.040 | -0.40 | 668.50 | | |
| | | 670.92 | -0.21 | | 10 | 671.13 | 1.30 | 0.036 | 36 | - | - | - | - | 669.83 | -0.40 | -0.040 | 10 | 669.43 | 114+75.00 | 669.62 | 10 | | -0.21 | 669.83 | - | - | - | - | 36 | -0.036 | -1.30 | 668.54 | 10 | -0.040 | -0.40 | 668.14 | | |
| | | 670.56 | -0.21 | | 10 | 670.77 | 1.30 | 0.036 | 36 | - | - | - | - | 669.47 | -0.40 | -0.040 | 10 | 669.07 | 115+00.00 | 669.26 | 10 | | -0.21 | 669.47 | - | - | - | - | 36 | -0.036 | -1.30 | 668.17 | 10 | -0.040 | -0.40 | 667.77 | | |
| | | 670.19 | -0.21 | | 10 | 670.40 | 1.30 | 0.036 | 36 | - | - | - | - | 669.11 | -0.40 | -0.040 | 10 | 668.71 | 115+25.00 | 668.90 | 10 | | -0.21 | 669.11 | - | - | - | - | 36 | -0.036 | -1.30 | 667.81 | 10 | -0.040 | -0.40 | 667.41 | | |
| | | 669.83 | -0.21 | | 10 | 670.04 | 1.30 | 0.036 | 36 | - | - | - | - | 668.75 | -0.40 | -0.040 | 10 | 668.35 | 115+50.00 | 668.54 | 10 | | -0.21 | 668.75 | - | - | - | - | 36 | -0.036 | -1.30 | 667.45 | 10 | -0.040 | -0.40 | 667.05 | | |
| | | 669.47 | -0.21 | | 10 | 669.68 | 1.30 | 0.036 | 36 | - | - | - | - | 668.38 | -0.40 | -0.040 | 10 | 667.98 | 115+75.00 | 668.17 | 10 | | -0.21 | 668.38 | - | - | - | - | 36 | -0.036 | -1.30 | 667.09 | 10 | -0.040 | -0.40 | 666.69 | | |
| | | 669.11 | -0.21 | | 10 | 669.32 | 1.30 | 0.036 | 36 | - | - | - | - | 668.02 | -0.40 | -0.040 | 10 | 667.62 | 116+00.00 | 667.81 | 10 | | -0.21 | 668.02 | - | - | - | - | 36 | -0.036 | -1.30 | 666.73 | 10 | -0.040 | -0.40 | 666.33 | | |
| | | 668.75 | -0.21 | | 10 | 668.96 | 1.30 | 0.036 | 36 | - | - | - | - | 667.66 | -0.40 | -0.040 | 10 | 667.26 | 116+25.00 | 667.45 | 10 | | -0.21 | 667.66 | - | - | - | - | 36 | -0.036 | -1.30 | 666.36 | 10 | -0.040 | -0.40 | 665.96 | | |
| | | 668.38 | -0.21 | | 10 | 668.59 | 1.30 | 0.036 | 36 | - | - | - | - | 667.30 | -0.40 | -0.040 | 10 | 666.90 | 116+50.00 | 667.09 | 10 | | -0.21 | 667.30 | - | - | - | - | 36 | -0.036 | -1.30 | 666.00 | 10 | -0.040 | -0.40 | 665.60 | | |
| | | 668.02 | -0.21 | | 10 | 668.23 | 1.30 | 0.036 | 36 | - | - | - | - | 666.94 | -0.40 | -0.040 | 10 | 666.54 | 116+75.00 | 666.73 | 10 | | -0.21 | 666.94 | - | - | - | - | 36 | -0.036 | -1.30 | 665.64 | 10 | -0.040 | -0.40 | 665.24 | | |
| | | 667.66 | -0.21 | | 10 | 667.87 | 1.30 | 0.036 | 36 | - | - | - | - | 666.57 | -0.40 | -0.040 | 10 | 666.17 | 117+00.00 | 666.36 | 10 | | -0.21 | 666.57 | - | - | - | - | 36 | -0.036 | -1.30 | 665.28 | 10 | -0.040 | -0.40 | 664.88 | | |
| | | 667.30 | -0.21 | | 10 | 667.51 | 1.30 | 0.036 | 36 | - | - | - | - | 666.21 | -0.40 | -0.040 | 10 | 665.81 | 117+25.00 | 666.00 | 10 | | -0.21 | 666.21 | - | - | - | - | 36 | -0.036 | -1.30 | 664.92 | 10 | -0.040 | -0.40 | 664.52 | | |
| | | 666.94 | -0.21 | | 10 | 667.15 | 1.30 | 0.036 | 36 | - | - | - | - | 665.85 | -0.40 | -0.040 | 10 | 665.45 | 117+50.00 | 665.64 | 10 | | -0.21 | 665.85 | - | - | - | - | 36 | -0.036 | -1.30 | 664.55 | 10 | -0.040 | -0.40 | 664.15 | | |

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans Not For Reference Only

CUY-77-11.41 - PART 1
MODEL: Sheet-3 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:18 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

SUPERELEVATION TABLE
I.R. 77 CURVE 2

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.612 TOTAL P.1135

# SUPERELEVATION TABLE - CURVE 2

| REMARKS | P.I. STATION 218+10.24 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°00'00" LT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| | | 666.57 | -0.21 | | 10 | 666.78 | 1.30 | 0.036 | 36 | - | - | - | - | 665.49 | -0.40 | -0.040 | 10 | 665.09 | 117+75.00 | 665.28 | 10 | | -0.21 | 665.49 | - | - | - | - | 36 | -0.036 | -1.30 | 664.19 | 10 | -0.040 | -0.40 | 663.79 | | |
| | | 666.21 | -0.21 | | 10 | 666.42 | 1.30 | 0.036 | 36 | - | - | - | - | 665.13 | -0.40 | -0.040 | 10 | 664.73 | 118+00.00 | 664.92 | 10 | | -0.21 | 665.13 | - | - | - | - | 36 | -0.036 | -1.30 | 663.83 | | | | | | |
| | | 665.85 | -0.21 | | 10 | 666.06 | 1.30 | 0.036 | 36 | - | - | - | - | 664.76 | -0.40 | -0.040 | 10 | 664.36 | 118+25.00 | 664.55 | 10 | | -0.21 | 664.76 | - | - | - | - | 36 | -0.036 | -1.30 | 663.47 | | | | | | |
| | | 665.49 | -0.21 | | 10 | 665.70 | 1.30 | 0.036 | 36 | - | - | - | - | 664.40 | -0.40 | -0.040 | 10 | 664.00 | 118+50.00 | 664.19 | 10 | | -0.21 | 664.40 | - | - | - | - | 36 | -0.036 | -1.30 | 663.10 | | | | | | |
| | | 665.12 | -0.21 | | 10 | 665.33 | 1.30 | 0.036 | 36 | - | - | - | - | 664.04 | -0.40 | -0.040 | 10 | 663.64 | 118+75.00 | 663.83 | 10 | | -0.21 | 664.04 | - | - | - | - | 36 | -0.036 | -1.30 | 662.74 | | | | | | |
| | | 664.76 | -0.21 | | 10 | 664.97 | 1.30 | 0.036 | 36 | - | - | - | - | 663.68 | -0.40 | -0.040 | 10 | 663.28 | 119+00.00 | 663.47 | 10 | | -0.21 | 663.68 | - | - | - | - | 36 | -0.036 | -1.30 | 662.38 | | | | | | |
| | | 664.40 | -0.21 | | 10 | 664.61 | 1.30 | 0.036 | 36 | - | - | - | - | 663.31 | -0.40 | -0.040 | 10 | 662.91 | 119+25.00 | 663.10 | 10 | | -0.21 | 663.31 | - | - | - | - | 36 | -0.036 | -1.30 | 662.02 | | | | | | |
| | | 664.04 | -0.21 | | 10 | 664.25 | 1.30 | 0.036 | 36 | - | - | - | - | 662.95 | -0.40 | -0.040 | 10 | 662.55 | 119+50.00 | 662.74 | 10 | | -0.21 | 662.95 | - | - | - | - | 36 | -0.036 | -1.30 | 661.66 | | | | | | |
| | | | | | | 663.89 | 1.30 | 0.036 | 36 | - | - | - | - | 662.59 | -0.40 | -0.040 | 10 | 662.19 | 119+75.00 | 662.38 | 10 | | -0.21 | 662.59 | - | - | - | - | 36 | -0.036 | -1.30 | 661.29 | | | | | | |
| | | | | | | 663.52 | 1.30 | 0.036 | 36 | - | - | - | - | 662.23 | -0.40 | -0.040 | 10 | 661.83 | 120+00.00 | 662.02 | 10 | | -0.21 | 662.23 | - | - | - | - | 36 | -0.036 | -1.30 | 660.93 | | | | | | |
| | | | | | | 663.16 | 1.30 | 0.036 | 36 | - | - | - | - | 661.87 | -0.40 | -0.040 | 10 | 661.47 | 120+25.00 | 661.66 | 10 | | -0.21 | 661.87 | - | - | - | - | 36 | -0.036 | -1.30 | 660.57 | | | | | | |
| | | | | | | 662.80 | 1.30 | 0.036 | 36 | - | - | - | - | 661.50 | -0.40 | -0.040 | 10 | 661.10 | 120+50.00 | 661.29 | 10 | | -0.21 | 661.50 | - | - | - | - | 36 | -0.036 | -1.30 | 660.21 | | | | | | |
| | | | | | | 662.44 | 1.30 | 0.036 | 36 | - | - | - | - | 661.14 | -0.40 | -0.040 | 10 | 660.74 | 120+75.00 | 660.93 | 10 | | -0.21 | 661.14 | - | - | - | - | 36 | -0.036 | -1.30 | 659.85 | | | | | | |
| | | | | | | 662.08 | 1.30 | 0.036 | 36 | - | - | - | - | 660.78 | -0.40 | -0.040 | 10 | 660.38 | 121+00.00 | 660.57 | 10 | | -0.21 | 660.78 | - | - | - | - | 36 | -0.036 | -1.30 | 659.48 | | | | | | |
| | | | | | | 661.71 | 1.30 | 0.036 | 36 | - | - | - | - | 660.42 | -0.40 | -0.040 | 10 | 660.02 | 121+25.00 | 660.21 | 10 | | -0.21 | 660.42 | - | - | - | - | 36 | -0.036 | -1.30 | 659.12 | | | | | | |
| | | | | | | 661.35 | 1.30 | 0.036 | 36 | - | - | - | - | 660.06 | -0.40 | -0.040 | 10 | 659.66 | 121+50.00 | 659.85 | 10 | | -0.21 | 660.06 | - | - | - | - | 36 | -0.036 | -1.30 | 658.76 | | | | | | |
| | | | | | | 660.99 | 1.30 | 0.036 | 36 | - | - | - | - | 659.69 | -0.40 | -0.040 | 10 | 659.29 | 121+75.00 | 659.48 | 10 | | -0.21 | 659.69 | - | - | - | - | 36 | -0.036 | -1.30 | 658.40 | | | | | | |
| | | | | | | 660.63 | 1.30 | 0.036 | 36 | - | - | - | - | 659.33 | -0.40 | -0.040 | 10 | 658.93 | 122+00.00 | 659.12 | 10 | | -0.21 | 659.33 | - | - | - | - | 36 | -0.036 | -1.30 | 658.03 | | | | | | |
| | | | | | | 660.26 | 1.30 | 0.036 | 36 | - | - | - | - | 658.97 | -0.40 | -0.040 | 10 | 658.57 | 122+25.00 | 658.76 | 10 | | -0.21 | 658.97 | - | - | - | - | 36 | -0.036 | -1.30 | 657.67 | | | | | | |
| | | | | | | 659.90 | 1.30 | 0.036 | 36 | - | - | - | - | 658.61 | -0.40 | -0.040 | 10 | 658.21 | 122+50.00 | 658.40 | 10 | | -0.21 | 658.61 | - | - | - | - | 36 | -0.036 | -1.30 | 657.31 | | | | | | |
| | | | | | | 659.54 | 1.30 | 0.036 | 36 | - | - | - | - | 658.24 | -0.40 | -0.040 | 10 | 657.84 | 122+75.00 | 658.03 | 10 | | -0.21 | 658.24 | - | - | - | - | 36 | -0.036 | -1.30 | 656.95 | | | | | | |
| | | | | | | 659.18 | 1.30 | 0.036 | 36 | - | - | - | - | 657.88 | -0.40 | -0.040 | 10 | 657.48 | 123+00.00 | 657.67 | 10 | | -0.21 | 657.88 | - | - | - | - | 36 | -0.036 | -1.30 | 656.59 | | | | | | |
| | | | | | | 658.82 | 1.30 | 0.036 | 36 | - | - | - | - | 657.52 | -0.40 | -0.040 | 10 | 657.12 | 123+25.00 | 657.31 | 10 | | -0.21 | 657.52 | - | - | - | - | 36 | -0.036 | -1.30 | 656.22 | | | | | | |
| | | | | | | 658.45 | 1.30 | 0.036 | 36 | - | - | - | - | 657.16 | -0.40 | -0.040 | 10 | 656.76 | 123+50.00 | 656.95 | 10 | | -0.21 | 657.16 | - | - | - | - | 36 | -0.036 | -1.30 | 655.86 | | | | | | |
| | | | | | | 658.09 | 1.30 | 0.036 | 36 | - | - | - | - | 656.80 | -0.40 | -0.040 | 10 | 656.40 | 123+75.00 | 656.59 | 10 | | -0.21 | 656.80 | - | - | - | - | 36 | -0.036 | -1.30 | 655.50 | | | | | | |
| | | | | | | 657.73 | 1.30 | 0.036 | 36 | - | - | - | - | 656.43 | -0.40 | -0.040 | 10 | 656.03 | 124+00.00 | 656.22 | 10 | | -0.21 | 656.43 | - | - | - | - | 36 | -0.036 | -1.30 | 655.14 | | | | | | |
| | | | | | | 657.37 | 1.30 | 0.036 | 36 | - | - | - | - | 656.07 | -0.40 | -0.040 | 10 | 655.67 | 124+25.00 | 655.86 | 10 | | -0.21 | 656.07 | - | - | - | - | 36 | -0.036 | -1.30 | 654.78 | | | | | | |
| | | | | | | 657.01 | 1.30 | 0.036 | 36 | - | - | - | - | 655.71 | -0.40 | -0.040 | 10 | 655.31 | 124+50.00 | 655.50 | 10 | | -0.21 | 655.71 | - | - | - | - | 36 | -0.036 | -1.30 | 654.41 | | | | | | |
| | | | | | | 656.64 | 1.30 | 0.036 | 36 | - | - | - | - | 655.35 | -0.40 | -0.040 | 10 | 654.95 | 124+75.00 | 655.14 | 10 | | -0.21 | 655.35 | - | - | - | - | 36 | -0.036 | -1.30 | 654.05 | | | | | | |
| | | | | | | 656.28 | 1.30 | 0.036 | 36 | - | - | - | - | 654.99 | -0.40 | -0.040 | 10 | 654.59 | 125+00.00 | 654.78 | 10 | | -0.21 | 654.99 | - | - | - | - | 36 | -0.036 | -1.30 | 653.69 | | | | | | |
| | | | | | | 655.92 | 1.30 | 0.036 | 36 | - | - | - | - | 654.62 | -0.40 | -0.040 | 10 | 654.22 | 125+25.00 | 654.41 | 10 | | -0.21 | 654.62 | - | - | - | - | 36 | -0.036 | -1.30 | 653.33 | | | | | | |
| | | | | | | 655.56 | 1.30 | 0.036 | 36 | - | - | - | - | 654.26 | -0.40 | -0.040 | 10 | 653.86 | 125+50.00 | 654.05 | 10 | | -0.21 | 654.26 | - | - | - | - | 36 | -0.036 | -1.30 | 652.97 | | | | | | |
| | | | | | | 655.19 | 1.30 | 0.036 | 36 | - | - | - | - | 653.90 | -0.40 | -0.040 | 10 | 653.50 | 125+75.00 | 653.69 | 10 | | -0.21 | 653.90 | - | - | - | - | 36 | -0.036 | -1.30 | 652.60 | | | | | | |
| | | | | | | 654.83 | 1.30 | 0.036 | 36 | - | - | - | - | 653.54 | -0.40 | -0.040 | 10 | 653.14 | 126+00.00 | 653.33 | 10 | | -0.21 | 653.54 | - | - | - | - | 36 | -0.036 | -1.30 | 652.24 | | | | | | |
| | | | | | | 654.47 | 1.30 | 0.036 | 36 | - | - | - | - | 653.17 | -0.40 | -0.040 | 10 | 652.77 | 126+25.00 | 652.96 | 10 | | -0.21 | 653.17 | - | - | - | - | 36 | -0.036 | -1.30 | 651.88 | | | | | | |
| | | | | | | 654.11 | 1.30 | 0.036 | 36 | - | - | - | - | 652.81 | -0.40 | -0.040 | 10 | 652.41 | 126+50.00 | 652.60 | 10 | | -0.21 | 652.81 | - | - | - | - | 36 | -0.036 | -1.30 | 651.52 | | | | | | |
| | | | | | | 653.75 | 1.30 | 0.036 | 36 | - | - | - | - | 652.45 | -0.40 | -0.040 | 10 | 652.05 | 126+75.00 | 652.24 | 10 | | -0.21 | 652.45 | - | - | - | - | 36 | -0.036 | -1.30 | 651.15 | | | | | | |
| | | | | | | 653.38 | 1.30 | 0.036 | 36 | - | - | - | - | 652.09 | -0.40 | -0.040 | 10 | 651.69 | 127+00.00 | 651.88 | 10 | | -0.21 | 652.09 | - | - | - | - | 36 | -0.036 | -1.30 | 650.79 | | | | | | |
| | | 652.81 | -0.21 | | 10 | 653.02 | 1.30 | 0.036 | 36 | - | - | - | - | 651.73 | -0.40 | -0.040 | 10 | 651.33 | 127+25.00 | 651.52 | 10 | | -0.21 | 651.73 | - | - | - | - | 36 | -0.036 | -1.30 | 650.43 | | | | | | |
| | | 652.47 | -0.21 | | 10 | 652.68 | 1.30 | 0.036 | 36 | - | - | - | - | 651.38 | -0.40 | -0.040 | 10 | 650.98 | 127+50.00 | 651.17 | 10 | | -0.21 | 651.38 | - | - | - | - | 36 | -0.036 | -1.30 | 650.09 | | | | | | |
| | | 652.16 | -0.21 | | 10 | 652.37 | 1.30 | 0.036 | 36 | - | - | - | - | 651.07 | -0.40 | -0.040 | 10 | 650.67 | 127+75.00 | 650.86 | 10 | | -0.21 | 651.07 | - | - | - | - | 36 | -0.036 | -1.30 | 649.78 | | | | | | |
| | | 651.89 | -0.21 | | 10 | 652.10 | 1.30 | 0.036 | 36 | - | - | - | - | 650.80 | -0.40 | -0.040 | 10 | 650.40 | 128+00.00 | 650.59 | 10 | | -0.21 | 650.80 | - | - | - | - | 36 | -0.036 | -1.30 | 649.51 | | | | | | |
| | | 651.65 | -0.21 | | 10 | 651.86 | 1.30 | 0.036 | 36 | - | - | - | - | 650.56 | -0.40 | -0.040 | 10 | 650.16 | 128+25.00 | 650.35 | 10 | | -0.21 | 650.56 | - | - | - | - | 36 | -0.036 | -1.30 | 649.27 | | | | | | |
| | | 651.45 | -0.21 | | 10 | 651.66 | 1.30 | 0.036 | 36 | - | - | - | - | 650.36 | -0.40 | -0.040 | 10 | 649.96 | 128+50.00 | 650.15 | 10 | | -0.21 | 650.36 | - | - | - | - | 36 | -0.036 | -1.30 | 649.07 | | | | | | |
| | | 651.29 | -0.21 | | 10 | 651.50 | 1.30 | 0.036 | 36 | - | - | - | - | 650.20 | -0.40 | -0.040 | 10 | 649.80 | 128+75.00 | 649.99 | 10 | | -0.21 | 650.20 | - | - | - | - | 36 | -0.036 | -1.30 | 648.90 | | | | | | |
| | | 651.16 | -0.21 | | 10 | 651.37 | 1.30 | 0.036 | 36 | - | - | - | - | 650.07 | -0.40 | -0.040 | 10 | 649.67 | 129+00.00 | 649.86 | 10 | | -0.21 | 650.07 | - | - | - | - | 36 | -0.036 | -1.30 | 648.77 | | | | | | |
| | | 651.06 | -0.21 | | 10 | 651.27 | 1.30 | 0.036 | 36 | - | - | - | - | 649.98 | -0.40 | -0.040 | 10 | 649.58 | 129+25.00 | 649.77 | 10 | | -0.21 | 649.98 | - | - | - | - | 36 | -0.036 | -1.30 | 648.68 | | | | | | |
| | | 651.01 | -0.21 | | 10 | 651.22 | 1.30 | 0.036 | 36 | - | - | - | - | 649.92 | -0.40 | -0.040 | 10 | 649.52 | 129+50.00 | 649.71 | 10 | | -0.21 | 649.92 | - | - | - | - | 36 | -0.036 | -1.30 | 648.62 | | | | | | |
| | | 650.98 | -0.21 | | 10 | 651.19 | 1.30 | 0.036 | 36 | - | - | - | - | 649.90 | -0.40 | -0.040 | 10 | 649.50 | 129+75.00 | 649.69 | 10 | | -0.21 | 649.90 | - | - | - | - | 36 | -0.036 | -1.30 | 648.60 | | | | | | |
| | | 651.00 | -0.21 | | 10 | 651.21 | 1.30 | 0.036 | 36 | - | - | - | - | 649.91 | -0.40 | -0.040 | 10 | 649.51 | 130+00.00 | 649.70 | 10 | | -0.21 | 649.91 | - | - | - | - | 36 | -0.036 | -1.30 | 648.62 | | | | | | |
| | | 651.05 | -0.21 | | 10 | 651.26 | 1.30 | 0.036 | 36 | - | - | - | - | 649.96 | -0.40 | -0.040 | 10 | 649.56 | 130+25.00 | 649.75 | 10 | | -0.21 | 649.96 | - | - | - | - | 36 | -0.036 | -1.30 | 648.67 | | | | | | |
| F.S. | | 651.06 | -0.21 | | 10 | 651.27 | 0.86 | 0.036 | 24 | 650.41 | 0.43 | 0.036 | 12 | 649.98 | -0.40 | -0.040 | 10 | 649.58 | 130+30.00 | 649.77 | 10 | | -0.21 | 649.98 | 12 | -0.036 | -0.43 | 649.55 | 24 | -0.036 | -0.86 | 648.68 | | | | | F.S. | |
| | | 651.05 | -0.22 | | 10 | 651.26 | 0.81 | 0.034 | 24 | 650.45 | 0.40 | 0.034 | 12 | 650.05 | -0.40 | -0.040 | 10 | 649.65 | 130+50.00 | 649.83 | 10 | | -0.22 | 650.05 | 12 | -0.034 | -0.40 | 649.65 | 24 | -0.034 | -0.81 | 648.84 | | | | | | |
| | | 651.06 | -0.22 | | 10 | 651.28 | 0.74 | 0.031 | 24 | 650.54 | 0.37 | 0.031 | 12 | 650.17 | -0.40 | -0.040 | 10 | 649.77 | 130+75.00 | 649.95 | 10 | | -0.22 | 650.17 | 12 | -0.031 | -0.37 | 649.80 | 24 | -0.031 | -0.74 | 649.06 | | | | | | |
| | | 651.07 | -0.27 | -0.027 | 10 | 651.34 | 0.67 | 0.028 | 24 | 650.67 | 0.34 | 0.028 | 12 | 650.33 | -0.40 | -0.040 | 10 | 649.93 | 131+00.00 | 650.06 | 10 | -0.027 | -0.27 | 650.33 | 12 | -0.028 | -0.34 | 649.99 | 24 | -0.028 | -0.67 | 649.32 | | | | | | |
| | | 651.07 | -0.36 | -0.036 | 10 | 651.43 | 0.60 | 0.025 | 24 | 650.83 | 0.30 | 0.025 | 12 | 650.52 | -0.40 | -0.040 | 10 | 650.12 | 131+25.00 | 650.16 | 10 | -0.036 | -0.36 | 650.52 | 12 | -0.025 | -0.30 | 650.22 | 24 | -0.025 | -0.60 | 649.62 | | | | | | |
| P.C. | | 651.08 | -0.40 | -0.040 | 10 | 651.48 | 0.58 | 0.024 | 24 | 650.90 | 0.29 | 0.024 | 12 | 650.62 | -0.40 | -0.040 | 10 | 650.22 | 131+35.36 | 650.22 | 10 | -0.040 | -0.40 | 650.62 | 12 | -0.024 | -0.29 | 650.33 | 24 | -0.024 | -0.58 | 649.75 | | | | | | P.T. |
| | | 651.16 | -0.40 | -0.040 | 10 | 651.56 | 0.54 | 0.022 | 24 | 651.02 | 0.27 | 0.022 | 12 | 650.75 | -0.40 | -0.040 | 10 | 650.35 | 131+50.00 | 650.35 | 10 | -0.040 | -0.40 | 650.75 | 12 | -0.022 | -0.27 | 650.49 | 24 | -0.022 | -0.54 | 649.95 | | | | | | |
| | | 651.32 | -0.40 | -0.040 | 10 | 651.72 | 0.47 | 0.019 | 24 | 651.25 | 0.23 | 0.019 | 12 | 651.02 | -0.40 | -0.040 | 10 | 650.62 | 131+75.00 | 650.62 | 10 | -0.040 | -0.40 | 651.02 | 12 | -0.019 | -0.23 | 650.79 | 24 | -0.019 | -0.47 | 650.32 | | | | | | |
| | | 651.50 | -0.40 | -0.040 | 10 | 651.90 | 0.40 | 0.017 | 24 | 651.50 | 0.20 | 0.017 | 12 | 651.30 | -0.40 | -0.040 | 10 | 650.90 | 132+00.00 | 650.90 | 10 | -0.040 | -0.40 | 651.30 | 12 | -0.017 | -0.20 | 651.11 | 24 | -0.017 | -0.40 | 650.71 | | | | | | |
| R.C. | | 651.54 | -0.40 | -0.040 | 10 | 651.94 | 0.38 | 0.016 | 24 | 651.55 | 0.19 | 0.016 | 12 | 651.36 | -0.40 | -0.040 | 10 | 650.96 | 132+05.00 | 650.96 | 10 | -0.040 | -0.40 | 651.36 | 12 | -0.016 | -0.19 | 651.17 | 24 | -0.016 | -0.38 | 650.79 | | | | | | R.C. |
| | | 651.68 | -0.40 | -0.040 | 10 | 652.08 | 0.30 | 0.012 | 24 | 651.78 | 0.19 | 0.016 | 12 | 651.59 | -0.40 | -0.040 | 10 | 651.19 | 132+25.00 | 651.19 | 10 | -0.040 | -0.40 | 651.59 | 12 | -0.009 | -0.11 | 651.48 | 24 | -0.016 | -0.38 | 651.10 | | | | | | |
| | | 651.86 | -0.40 | -0.040 | 10 | 652.26 | 0.19 | 0.008 | 24 | 652.06 | 0.19 | 0.016 | 12 | 651.87 | -0.40 | -0.040 | 10 | 651.47 | 132+50.00 | 651.47 | 10 | -0.040 | -0.40 | 651.87 | 12 | 0.000 | 0.00 | 651.87 | 24 | -0.016 | -0.38 | 651.49 | | | | | | |
| | | 652.03 | -0.40 | -0.040 | 10 | 652.43 | 0.09 | 0.004 | 24 | 652.35 | 0.19 | 0.016 | 12 | 652.16 | -0.40 | -0.040 | 10 | 651.76 | 132+75.00 | 651.76 | 10 | -0.040 | -0.40 | 652.16 | 12 | 0.009 | 0.11 | 652.26 | 24 | -0.016 | -0.38 | 651.88 | | | | | | |
| ½ FLAT | | 652.17 | -0.40 | -0.040 | 10 | 652.57 | 0.00 | 0.000 | 24 | 652.57 | 0.19 | 0.016 | 12 | 652.38 | -0.40 | -0.040 | 10 | 651.98 | 132+95.00 | 651.98 | 10 | -0.040 | -0.40 | 652.38 | 12 | 0.016 | 0.19 | 652.57 | 24 | -0.016 | -0.38 | 652.19 | | | | | | ½ FLAT |
| | | 652.21 | -0.40 | -0.040 | 10 | 652.61 | -0.02 | -0.001 | 24 | 652.63 | 0.19 | 0.016 | 12 | 652.44 | -0.40 | -0.040 | 10 | 652.04 | 133+00.00 | 652.04 | 10 | -0.040 | -0.40 | 652.44 | 12 | 0.016 | 0.19 | 652.63 | 24 | -0.016 | -0.38 | 652.25 | | | | | | |
| | | 652.39 | -0.40 | -0.040 | 10 | 652.79 | -0.13 | -0.005 | 24 | 652.92 | 0.19 | 0.016 | 12 | 652.72 | -0.40 | -0.040 | 10 | 652.32 | 133+25.00 | 652.32 | 10 | -0.040 | -0.40 | 652.72 | 12 | 0.016 | 0.19 | 652.92 | 24 | -0.016 | -0.38 | 652.53 | | | | | | |
| | | 652.56 | -0.40 | -0.040 | 10 | 652.96 | -0.23 | -0.010 | 24 | 653.20 | 0.19 | 0.016 | 12 | 653.01 | -0.40 | -0.040 | 10 | 652.61 | 133+50.00 | 652.61 | 10 | -0.040 | -0.40 | 653.01 | 12 | 0.016 | 0.19 | 653.20 | 24 | -0.016 | -0.38 | 652.81 | | | | | | |
| | | 652.74 | -0.40 | -0.040 | 10 | 653.14 | -0.34 | -0.014 | 24 | 653.48 | 0.19 | 0.016 | 12 | 653.29 | -0.40 | -0.040 | 10 | 652.89 | 133+75.00 | 652.89 | 10 | -0.040 | -0.40 | 653.29 | 12 | 0.016 | 0.19 | 653.48 | 24 | -0.016 | -0.38 | 653.10 | | | | | | |
| N.C. | | 652.81 | -0.40 | -0.040 | 10 | 653.21 | -0.38 | -0.016 | 24 | 653.60 | 0.19 | 0.016 | 12 | 653.40 | -0.40 | -0.040 | 10 | 653.00 | 133+85.00 | 653.00 | 10 | -0.040 | -0.40 | 653.40 | 12 | 0.016 | 0.19 | 653.60 | 24 | -0.016 | -0.38 | 653.21 | | | | | | N.C. |

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

HIGH SIDE SHLDER W/ ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

233 : 1

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 2

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.613  TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-4 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:20 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

# SUPERELEVATION TABLE - CURVE 3

| REMARKS | P.I. STATION 144+13.27 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 00°45'00" RT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| N.C. | | 658.66 | -0.59 | -0.040 | 10 | 659.06 | -0.19 | -0.016 | 24 | 659.44 | 0.19 | 0.016 | 12 | 659.25 | -0.40 | -0.040 | 10 | 658.85 | 139+05.00 | 658.85 | 10 | -0.040 | -0.40 | 659.25 | 12 | 0.016 | 0.19 | 659.44 | 24 | -0.016 | -0.38 | 659.06 | 10 | -0.040 | -0.40 | 658.66 | | N.C. |
| | | 659.03 | -0.51 | -0.040 | 10 | 659.43 | -0.11 | -0.012 | 24 | 659.73 | 0.19 | 0.016 | 12 | 659.53 | -0.40 | -0.040 | 10 | 659.13 | 139+25.00 | 659.22 | 10 | -0.031 | -0.31 | 659.53 | 12 | 0.016 | 0.19 | 659.73 | 24 | -0.016 | -0.38 | 659.34 | 10 | -0.040 | -0.40 | 658.94 | | |
| | | 659.42 | -0.40 | -0.040 | 10 | 659.82 | 0.00 | -0.008 | 24 | 660.01 | 0.19 | 0.016 | 12 | 659.82 | -0.40 | -0.040 | 10 | 659.42 | 139+50.00 | 659.62 | 10 | -0.020 | -0.20 | 659.82 | 12 | 0.016 | 0.19 | 660.01 | 24 | -0.016 | -0.38 | 659.62 | 10 | -0.040 | -0.40 | 659.22 | | |
| | | 659.82 | -0.29 | -0.040 | 10 | 660.22 | 0.11 | -0.004 | 24 | 660.30 | 0.19 | 0.016 | 12 | 660.11 | -0.40 | -0.040 | 10 | 659.71 | 139+75.00 | 660.02 | 10 | -0.009 | -0.09 | 660.11 | 12 | 0.016 | 0.19 | 660.30 | 24 | -0.016 | -0.38 | 659.92 | 10 | -0.040 | -0.40 | 659.52 | | |
| | | 660.22 | -0.21 | -0.040 | 10 | 660.62 | 0.19 | 0.000 | 24 | 660.62 | 0.19 | 0.016 | 12 | 660.43 | -0.40 | -0.040 | 10 | 660.03 | 139+95.00 | 660.43 | 10 | 0.000 | 0.00 | 660.43 | 12 | 0.016 | 0.19 | 660.62 | 24 | -0.016 | -0.38 | 660.23 | 10 | -0.040 | -0.40 | 659.83 | | 1/2 FLAT |
| | | 660.58 | -0.19 | -0.040 | 10 | 660.98 | 0.21 | 0.001 | 24 | 660.96 | 0.19 | 0.016 | 12 | 660.76 | -0.40 | -0.040 | 10 | 660.36 | 140+00.00 | 660.72 | 10 | -0.004 | -0.04 | 660.76 | 12 | 0.014 | 0.17 | 660.93 | 24 | -0.016 | -0.38 | 660.55 | 10 | -0.040 | -0.40 | 660.15 | | |
| | | 661.04 | -0.08 | -0.040 | 10 | 661.44 | 0.32 | 0.005 | 24 | 661.31 | 0.19 | 0.016 | 12 | 661.12 | -0.40 | -0.040 | 10 | 660.72 | 140+25.00 | 660.86 | 10 | -0.027 | -0.27 | 661.12 | 12 | 0.005 | 0.06 | 661.19 | 24 | -0.016 | -0.38 | 660.80 | 10 | -0.040 | -0.40 | 660.40 | | |
| | | 661.49 | -0.02 | -0.040 | 10 | 661.89 | 0.38 | 0.008 | 24 | 661.69 | 0.19 | 0.016 | 12 | 661.50 | -0.40 | -0.040 | 10 | 661.10 | 140+40.00 | 661.10 | 10 | -0.040 | -0.40 | 661.50 | 12 | 0.000 | 0.00 | 661.50 | 24 | -0.016 | -0.38 | 661.12 | 10 | -0.040 | -0.40 | 660.72 | | |
| | | 661.36 | 0.03 | -0.040 | 10 | 661.76 | 0.43 | 0.010 | 24 | 661.52 | 0.19 | 0.016 | 12 | 661.33 | -0.40 | -0.040 | 10 | 660.93 | 140+50.00 | 660.93 | 10 | -0.040 | -0.40 | 661.33 | 12 | -0.003 | -0.04 | 661.29 | 24 | -0.016 | -0.38 | 660.90 | 10 | -0.040 | -0.40 | 660.50 | | |
| | | 661.93 | 0.13 | -0.040 | 10 | 662.33 | 0.53 | 0.014 | 24 | 662.00 | 0.19 | 0.016 | 12 | 661.81 | -0.40 | -0.040 | 10 | 661.41 | 140+75.00 | 661.41 | 10 | -0.040 | -0.40 | 661.81 | 12 | -0.012 | -0.15 | 661.66 | 24 | -0.016 | -0.38 | 661.28 | 10 | -0.040 | -0.40 | 660.88 | | |
| | | 662.03 | 0.18 | -0.040 | 10 | 662.43 | 0.58 | 0.016 | 24 | 662.04 | 0.19 | 0.016 | 12 | 661.85 | -0.40 | -0.040 | 10 | 661.45 | 140+86.20 | 661.45 | 10 | -0.040 | -0.40 | 661.85 | 12 | -0.016 | -0.19 | 661.66 | 24 | -0.016 | -0.38 | 661.27 | 10 | -0.040 | -0.40 | 660.87 | | P.C./R.C. |
| | | 662.14 | 0.23 | -0.040 | 10 | 662.54 | 0.63 | 0.018 | 24 | 662.11 | 0.21 | 0.018 | 12 | 661.90 | -0.40 | -0.040 | 10 | 661.50 | 141+00.00 | 661.50 | 10 | -0.040 | -0.40 | 661.90 | 12 | -0.018 | -0.21 | 661.69 | 24 | -0.018 | -0.42 | 661.27 | 10 | -0.040 | -0.40 | 660.87 | | |
| | | 662.66 | 0.34 | -0.040 | 10 | 663.06 | 0.74 | 0.021 | 24 | 662.57 | 0.25 | 0.021 | 12 | 662.32 | -0.40 | -0.040 | 10 | 661.92 | 141+25.00 | 661.92 | 10 | -0.040 | -0.40 | 662.32 | 12 | -0.021 | -0.25 | 662.08 | 24 | -0.021 | -0.49 | 661.59 | 10 | -0.040 | -0.40 | 661.19 | | |
| | | 663.21 | 0.44 | -0.040 | 10 | 663.61 | 0.84 | 0.023 | 24 | 663.05 | 0.28 | 0.023 | 12 | 662.77 | -0.40 | -0.040 | 10 | 662.37 | 141+50.00 | 662.37 | 10 | -0.040 | -0.40 | 662.77 | 12 | -0.023 | -0.28 | 662.49 | 24 | -0.023 | -0.56 | 661.92 | 10 | -0.040 | -0.40 | 661.52 | | |
| | | 663.06 | 0.46 | -0.040 | 10 | 663.46 | 0.86 | 0.024 | 24 | 662.89 | 0.29 | 0.024 | 12 | 662.60 | -0.40 | -0.040 | 10 | 662.20 | 141+55.00 | 662.20 | 10 | -0.040 | -0.40 | 662.60 | 12 | -0.024 | -0.29 | 662.31 | 24 | -0.024 | -0.58 | 661.74 | 10 | -0.040 | -0.40 | 661.34 | | F.S. |
| | | 663.70 | 0.46 | -0.040 | 10 | 664.10 | 0.86 | 0.024 | 36 | - | - | - | - | 663.23 | -0.40 | -0.040 | 10 | 662.83 | 141+75.00 | 662.83 | 10 | -0.040 | -0.40 | 663.23 | - | - | - | - | 36 | -0.024 | -0.86 | 662.37 | 10 | -0.040 | -0.40 | 661.97 | | |
| | | 664.18 | 0.46 | -0.040 | 10 | 664.58 | 0.86 | 0.024 | 36 | - | - | - | - | 663.72 | -0.40 | -0.040 | 10 | 663.32 | 142+00.00 | 663.32 | 10 | -0.040 | -0.40 | 663.72 | - | - | - | - | 36 | -0.024 | -0.86 | 662.85 | 10 | -0.040 | -0.40 | 662.45 | | |
| | | 664.69 | 0.46 | -0.040 | 10 | 665.09 | 0.86 | 0.024 | 36 | - | - | - | - | 664.22 | -0.40 | -0.040 | 10 | 663.82 | 142+25.00 | 663.82 | 10 | -0.040 | -0.40 | 664.22 | - | - | - | - | 36 | -0.024 | -0.86 | 663.36 | 10 | -0.040 | -0.40 | 662.96 | | |
| | | 665.22 | 0.46 | -0.040 | 10 | 665.62 | 0.86 | 0.024 | 36 | - | - | - | - | 664.75 | -0.40 | -0.040 | 10 | 664.35 | 142+50.00 | 664.35 | 10 | -0.040 | -0.40 | 664.75 | - | - | - | - | 36 | -0.024 | -0.86 | 663.89 | 10 | -0.040 | -0.40 | 663.49 | | |
| | | 665.76 | 0.46 | -0.040 | 10 | 666.16 | 0.86 | 0.024 | 36 | - | - | - | - | 665.29 | -0.40 | -0.040 | 10 | 664.89 | 142+75.00 | 664.89 | 10 | -0.040 | -0.40 | 665.29 | - | - | - | - | 36 | -0.024 | -0.86 | 664.43 | 10 | -0.040 | -0.40 | 664.03 | | |
| | | 666.29 | 0.46 | -0.040 | 10 | 666.69 | 0.86 | 0.024 | 36 | - | - | - | - | 665.83 | -0.40 | -0.040 | 10 | 665.43 | 143+00.00 | 665.43 | 10 | -0.040 | -0.40 | 665.83 | - | - | - | - | 36 | -0.024 | -0.86 | 664.97 | 10 | -0.040 | -0.40 | 664.57 | | |
| | | 666.83 | 0.46 | -0.040 | 10 | 667.23 | 0.86 | 0.024 | 36 | - | - | - | - | 666.37 | -0.40 | -0.040 | 10 | 665.97 | 143+25.00 | 665.97 | 10 | -0.040 | -0.40 | 666.37 | - | - | - | - | 36 | -0.024 | -0.86 | 665.51 | 10 | -0.040 | -0.40 | 665.11 | | |
| | | 667.37 | 0.46 | -0.040 | 10 | 667.77 | 0.86 | 0.024 | 36 | - | - | - | - | 666.91 | -0.40 | -0.040 | 10 | 666.51 | 143+50.00 | 666.51 | 10 | -0.040 | -0.40 | 666.91 | - | - | - | - | 36 | -0.024 | -0.86 | 666.04 | 10 | -0.040 | -0.40 | 665.64 | | |
| | | 667.91 | 0.46 | -0.040 | 10 | 668.31 | 0.86 | 0.024 | 36 | - | - | - | - | 667.45 | -0.40 | -0.040 | 10 | 667.05 | 143+75.00 | 667.05 | 10 | -0.040 | -0.40 | 667.45 | - | - | - | - | 36 | -0.024 | -0.86 | 666.58 | 10 | -0.040 | -0.40 | 666.18 | | |
| | | 668.45 | 0.46 | -0.040 | 10 | 668.85 | 0.86 | 0.024 | 36 | - | - | - | - | 667.99 | -0.40 | -0.040 | 10 | 667.59 | 144+00.00 | 667.59 | 10 | -0.040 | -0.40 | 667.99 | - | - | - | - | 36 | -0.024 | -0.86 | 667.12 | 10 | -0.040 | -0.40 | 666.72 | | |
| | | 668.99 | 0.46 | -0.040 | 10 | 669.39 | 0.86 | 0.024 | 36 | - | - | - | - | 668.53 | -0.40 | -0.040 | 10 | 668.13 | 144+25.00 | 668.13 | 10 | -0.040 | -0.40 | 668.53 | - | - | - | - | 36 | -0.024 | -0.86 | 667.66 | 10 | -0.040 | -0.40 | 667.26 | | |
| | | 669.53 | 0.46 | -0.040 | 10 | 669.93 | 0.86 | 0.024 | 36 | - | - | - | - | 669.06 | -0.40 | -0.040 | 10 | 668.66 | 144+50.00 | 668.66 | 10 | -0.040 | -0.40 | 669.06 | - | - | - | - | 36 | -0.024 | -0.86 | 668.20 | 10 | -0.040 | -0.40 | 667.80 | | |
| | | 670.07 | 0.46 | -0.040 | 10 | 670.47 | 0.86 | 0.024 | 36 | - | - | - | - | 669.60 | -0.40 | -0.040 | 10 | 669.20 | 144+75.00 | 669.20 | 10 | -0.040 | -0.40 | 669.60 | - | - | - | - | 36 | -0.024 | -0.86 | 668.74 | 10 | -0.040 | -0.40 | 668.34 | | |
| | | 670.61 | 0.46 | -0.040 | 10 | 671.01 | 0.86 | 0.024 | 36 | - | - | - | - | 670.14 | -0.40 | -0.040 | 10 | 669.74 | 145+00.00 | 669.74 | 10 | -0.040 | -0.40 | 670.14 | - | - | - | - | 36 | -0.024 | -0.86 | 669.28 | 10 | -0.040 | -0.40 | 668.88 | | |
| | | 671.14 | 0.46 | -0.040 | 10 | 671.54 | 0.86 | 0.024 | 36 | - | - | - | - | 670.68 | -0.40 | -0.040 | 10 | 670.28 | 145+25.00 | 670.28 | 10 | -0.040 | -0.40 | 670.68 | - | - | - | - | 36 | -0.024 | -0.86 | 669.82 | 10 | -0.040 | -0.40 | 669.42 | | |
| | | 671.68 | 0.46 | -0.040 | 10 | 672.08 | 0.86 | 0.024 | 36 | - | - | - | - | 671.22 | -0.40 | -0.040 | 10 | 670.82 | 145+50.00 | 670.82 | 10 | -0.040 | -0.40 | 671.22 | - | - | - | - | 36 | -0.024 | -0.86 | 670.36 | 10 | -0.040 | -0.40 | 669.96 | | |
| | | 672.22 | 0.46 | -0.040 | 10 | 672.62 | 0.86 | 0.024 | 36 | - | - | - | - | 671.76 | -0.40 | -0.040 | 10 | 671.36 | 145+75.00 | 671.36 | 10 | -0.040 | -0.40 | 671.76 | - | - | - | - | 36 | -0.024 | -0.86 | 670.89 | 10 | -0.040 | -0.40 | 670.49 | | |
| | | 672.76 | 0.46 | -0.040 | 10 | 673.16 | 0.86 | 0.024 | 36 | - | - | - | - | 672.30 | -0.40 | -0.040 | 10 | 671.90 | 146+00.00 | 671.90 | 10 | -0.040 | -0.40 | 672.30 | - | - | - | - | 36 | -0.024 | -0.86 | 671.43 | 10 | -0.040 | -0.40 | 671.03 | | |
| | | 673.30 | 0.46 | -0.040 | 10 | 673.70 | 0.86 | 0.024 | 36 | - | - | - | - | 672.84 | -0.40 | -0.040 | 10 | 672.44 | 146+25.00 | 672.44 | 10 | -0.040 | -0.40 | 672.84 | - | - | - | - | 36 | -0.024 | -0.86 | 671.97 | 10 | -0.040 | -0.40 | 671.57 | | |
| | | 673.84 | 0.46 | -0.040 | 10 | 674.24 | 0.86 | 0.024 | 36 | - | - | - | - | 673.38 | -0.40 | -0.040 | 10 | 672.98 | 146+50.00 | 672.98 | 10 | -0.040 | -0.40 | 673.38 | - | - | - | - | 36 | -0.024 | -0.86 | 672.51 | 10 | -0.040 | -0.40 | 672.11 | | |
| | | 674.26 | 0.46 | -0.040 | 10 | 674.66 | 0.86 | 0.024 | 24 | 674.09 | 0.29 | 0.024 | 12 | 673.80 | -0.40 | -0.040 | 10 | 673.40 | 146+70.00 | 673.40 | 10 | -0.040 | -0.40 | 673.80 | 12 | -0.024 | -0.29 | 673.51 | 24 | -0.024 | -0.58 | 672.94 | 10 | -0.040 | -0.40 | 672.54 | | F.S. |
| | | 674.36 | 0.44 | -0.040 | 10 | 674.76 | 0.84 | 0.023 | 24 | 674.20 | 0.28 | 0.023 | 12 | 673.91 | -0.40 | -0.040 | 10 | 673.51 | 146+75.00 | 673.51 | 10 | -0.040 | -0.40 | 673.91 | 12 | -0.023 | -0.28 | 673.63 | 24 | -0.023 | -0.56 | 673.07 | 10 | -0.040 | -0.40 | 672.67 | | |
| | | 674.79 | 0.34 | -0.040 | 10 | 675.19 | 0.74 | 0.021 | 24 | 674.70 | 0.25 | 0.021 | 12 | 674.45 | -0.40 | -0.040 | 10 | 674.05 | 147+00.00 | 674.05 | 10 | -0.040 | -0.40 | 674.45 | 12 | -0.021 | -0.25 | 674.21 | 24 | -0.021 | -0.49 | 673.71 | 10 | -0.040 | -0.40 | 673.31 | | |
| | | 675.23 | 0.24 | -0.040 | 10 | 675.63 | 0.64 | 0.018 | 24 | 675.20 | 0.21 | 0.018 | 12 | 674.99 | -0.40 | -0.040 | 10 | 674.59 | 147+25.00 | 674.59 | 10 | -0.040 | -0.40 | 674.99 | 12 | -0.018 | -0.21 | 674.78 | 24 | -0.018 | -0.43 | 674.35 | 10 | -0.040 | -0.40 | 673.95 | | |
| | | 675.49 | 0.18 | -0.040 | 10 | 675.89 | 0.58 | 0.016 | 24 | 675.50 | 0.19 | 0.016 | 12 | 675.31 | -0.40 | -0.040 | 10 | 674.91 | 147+39.94 | 674.91 | 10 | -0.040 | -0.40 | 675.31 | 12 | -0.016 | -0.19 | 675.12 | 24 | -0.016 | -0.38 | 674.73 | 10 | -0.040 | -0.40 | 674.33 | | P.T./R.C. |
| | | 675.66 | 0.13 | -0.040 | 10 | 676.06 | 0.53 | 0.014 | 24 | 675.72 | 0.19 | 0.016 | 12 | 675.53 | -0.40 | -0.040 | 10 | 675.13 | 147+50.00 | 675.13 | 10 | -0.040 | -0.40 | 675.53 | 12 | -0.012 | -0.15 | 675.38 | 24 | -0.016 | -0.38 | 675.00 | 10 | -0.040 | -0.40 | 674.60 | | |
| | | 676.10 | 0.03 | -0.040 | 10 | 676.50 | 0.43 | 0.010 | 24 | 676.26 | 0.19 | 0.016 | 12 | 676.07 | -0.40 | -0.040 | 10 | 675.67 | 147+75.00 | 675.67 | 10 | -0.040 | -0.40 | 676.07 | 12 | -0.004 | -0.04 | 676.03 | 24 | -0.016 | -0.38 | 675.64 | 10 | -0.040 | -0.40 | 675.24 | | |
| | | 676.27 | -0.02 | -0.040 | 10 | 676.67 | 0.38 | 0.008 | 24 | 676.48 | 0.19 | 0.016 | 12 | 676.29 | -0.40 | -0.040 | 10 | 675.89 | 147+85.00 | 675.89 | 10 | -0.040 | -0.40 | 676.29 | 12 | 0.000 | 0.00 | 676.29 | 24 | -0.016 | -0.38 | 675.91 | 10 | -0.040 | -0.40 | 675.51 | | |
| | | 676.53 | -0.08 | -0.040 | 10 | 676.93 | 0.32 | 0.005 | 24 | 676.80 | 0.19 | 0.016 | 12 | 676.61 | -0.40 | -0.040 | 10 | 676.21 | 148+00.00 | 676.21 | 10 | -0.040 | -0.40 | 676.61 | 12 | 0.005 | 0.06 | 676.67 | 24 | -0.016 | -0.38 | 676.29 | 10 | -0.040 | -0.40 | 675.89 | | |
| | | 676.96 | -0.19 | -0.040 | 10 | 677.36 | 0.21 | 0.001 | 24 | 677.34 | 0.19 | 0.016 | 12 | 677.15 | -0.40 | -0.040 | 10 | 676.75 | 148+25.00 | 676.75 | 10 | -0.040 | -0.40 | 677.15 | 12 | 0.014 | 0.17 | 677.32 | 24 | -0.016 | -0.38 | 676.93 | 10 | -0.040 | -0.40 | 676.53 | | |
| | | 677.05 | -0.21 | -0.040 | 10 | 677.45 | 0.19 | 0.000 | 24 | 677.45 | 0.19 | 0.016 | 12 | 677.26 | -0.40 | -0.040 | 10 | 676.86 | 148+30.00 | 676.86 | 10 | -0.040 | -0.40 | 677.26 | 12 | 0.016 | 0.19 | 677.45 | 24 | -0.016 | -0.38 | 677.07 | 10 | -0.040 | -0.40 | 676.67 | | 1/2 FLAT |
| | | 677.39 | -0.29 | -0.040 | 10 | 677.79 | 0.11 | -0.004 | 24 | 677.88 | 0.19 | 0.016 | 12 | 677.69 | -0.40 | -0.040 | 10 | 677.29 | 148+50.00 | 677.29 | 10 | -0.040 | -0.40 | 677.69 | 12 | 0.016 | 0.19 | 677.88 | 24 | -0.016 | -0.38 | 677.49 | 10 | -0.040 | -0.40 | 677.09 | | |
| | | 677.83 | -0.40 | -0.040 | 10 | 678.23 | 0.00 | -0.008 | 24 | 678.42 | 0.19 | 0.016 | 12 | 678.23 | -0.40 | -0.040 | 10 | 677.83 | 148+75.00 | 677.83 | 10 | -0.040 | -0.40 | 678.23 | 12 | 0.016 | 0.19 | 678.42 | 24 | -0.016 | -0.38 | 678.03 | 10 | -0.040 | -0.40 | 677.63 | | |
| | | 678.25 | -0.51 | -0.040 | 10 | 678.65 | -0.11 | -0.012 | 24 | 678.95 | 0.19 | 0.016 | 12 | 678.76 | -0.40 | -0.040 | 10 | 678.36 | 149+00.00 | 678.36 | 10 | -0.040 | -0.40 | 678.76 | 12 | 0.016 | 0.19 | 678.95 | 24 | -0.016 | -0.38 | 678.56 | 10 | -0.040 | -0.40 | 678.16 | | |
| | | 678.57 | -0.59 | -0.040 | 10 | 678.97 | -0.19 | -0.016 | 24 | 679.35 | 0.19 | 0.016 | 12 | 679.16 | -0.40 | -0.040 | 10 | 678.76 | 149+20.00 | 678.76 | 10 | -0.040 | -0.40 | 679.16 | 12 | 0.016 | 0.19 | 679.35 | 24 | -0.016 | -0.38 | 678.97 | 10 | -0.040 | -0.40 | 678.57 | | N.C. |

For Reference Only
Preliminary Plans

CUY-77-11.41 - PART 1

MODEL: Curve 3 Boundary-2 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:25:27 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE004.dgn

SUPERELEVATION TABLE

DESIGN AGENCY
HNTB

DESIGNER ANC
REVIEWER XXX 03/31/22
PROJECT ID 105743
SHEET P.614 TOTAL P.1135

# SUPERELEVATION TABLE - CURVE 4

P.I. STATION 159+82.97 — CENTERLINE CONTROL — 1°01'45" LT

| REMARKS | LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| N.C. | | | | | | 682.51 | -0.38 | -0.016 | 24 | 682.89 | 0.19 | 0.016 | 12 | 682.70 | -0.40 | -0.040 | 10 | 682.30 | 151+80.00 | 682.30 | 10 | -0.040 | -0.40 | 682.70 | 12 | 0.016 | 0.19 | 682.89 | 24 | -0.016 | -0.38 | 682.51 | | | | | | N.C. |
| | | | | | | 682.65 | -0.38 | -0.016 | 24 | 683.03 | 0.19 | 0.016 | 12 | 682.84 | -0.40 | -0.040 | 10 | 682.44 | 152+00.00 | 682.44 | 10 | -0.040 | -0.40 | 682.84 | 12 | 0.016 | 0.19 | 683.03 | 24 | -0.012 | -0.30 | 682.73 | | | | | | |
| | | | | | | 682.80 | -0.38 | -0.016 | 24 | 683.18 | 0.19 | 0.016 | 12 | 682.99 | -0.40 | -0.040 | 10 | 682.59 | 152+25.00 | 682.59 | 10 | -0.040 | -0.40 | 682.99 | 12 | 0.016 | 0.19 | 683.18 | 24 | -0.008 | -0.19 | 682.99 | | | | | | |
| | | | | | | 682.92 | -0.38 | -0.016 | 24 | 683.31 | 0.19 | 0.016 | 12 | 683.11 | -0.40 | -0.040 | 10 | 682.71 | 152+50.00 | 682.71 | 10 | -0.040 | -0.40 | 683.11 | 12 | 0.016 | 0.19 | 683.31 | 24 | -0.004 | -0.09 | 683.22 | | | | | | |
| | | | | | | 683.00 | -0.38 | -0.016 | 24 | 683.38 | 0.19 | 0.016 | 12 | 683.19 | -0.40 | -0.040 | 10 | 682.79 | 152+70.00 | 682.79 | 10 | -0.040 | -0.40 | 683.19 | 12 | 0.016 | 0.19 | 683.38 | 24 | 0.000 | 0.00 | 683.38 | | | | | | 1/2 FLAT |
| | | | | | | 682.99 | -0.38 | -0.016 | 24 | 683.38 | 0.17 | 0.014 | 12 | 683.21 | -0.40 | -0.040 | 10 | 682.81 | 152+75.00 | 682.81 | 10 | -0.040 | -0.40 | 683.21 | 12 | 0.016 | 0.19 | 683.40 | 24 | 0.001 | 0.02 | 683.42 | | | | | | |
| | | | | | | 682.95 | -0.38 | -0.016 | 24 | 683.33 | 0.06 | 0.005 | 12 | 683.27 | -0.40 | -0.040 | 10 | 682.87 | 153+00.00 | 682.87 | 10 | -0.040 | -0.40 | 683.27 | 12 | 0.016 | 0.19 | 683.46 | 24 | 0.005 | 0.13 | 683.59 | | | | | | |
| 1/2 FLAT | | | | | | 682.91 | -0.38 | -0.016 | 24 | 683.29 | 0.00 | 0.000 | 12 | 683.29 | -0.40 | -0.040 | 10 | 682.89 | 153+15.00 | 682.89 | 10 | -0.040 | -0.40 | 683.29 | 12 | 0.016 | 0.19 | 683.48 | 24 | 0.008 | 0.19 | 683.68 | | | | | | |
| | | | | | | 682.88 | -0.38 | -0.016 | 24 | 683.26 | -0.04 | -0.004 | 12 | 683.30 | -0.40 | -0.040 | 10 | 682.90 | 153+25.00 | 682.90 | 10 | -0.040 | -0.40 | 683.30 | 12 | 0.016 | 0.19 | 683.49 | 24 | 0.010 | 0.23 | 683.73 | | | | | | |
| | | | | | | 682.77 | -0.38 | -0.016 | 24 | 683.16 | -0.15 | -0.012 | 12 | 683.31 | -0.40 | -0.040 | 10 | 682.91 | 153+50.00 | 682.91 | 10 | -0.040 | -0.40 | 683.31 | 12 | 0.016 | 0.19 | 683.50 | 24 | 0.014 | 0.34 | 683.84 | | | | | | |
| R.C. | | | | | | 682.73 | -0.38 | -0.016 | 24 | 683.11 | -0.19 | -0.016 | 12 | 683.30 | -0.40 | -0.040 | 10 | 682.90 | 153+60.00 | 682.90 | 10 | -0.040 | -0.40 | 683.30 | 12 | 0.016 | 0.19 | 683.49 | 24 | 0.016 | 0.38 | 683.88 | | | | | | R.C. |
| | | | | | | 682.65 | -0.42 | -0.018 | 24 | 683.07 | -0.21 | -0.018 | 12 | 683.28 | -0.40 | -0.040 | 10 | 682.88 | 153+75.00 | 682.88 | 10 | -0.040 | -0.40 | 683.28 | 12 | 0.018 | 0.21 | 683.50 | 24 | 0.018 | 0.42 | 683.92 | | | | | | |
| | | | | | | 682.49 | -0.49 | -0.021 | 24 | 682.98 | -0.25 | -0.021 | 12 | 683.23 | -0.40 | -0.040 | 10 | 682.83 | 154+00.00 | 682.83 | 10 | -0.040 | -0.40 | 683.23 | 12 | 0.021 | 0.25 | 683.48 | 24 | 0.021 | 0.49 | 683.97 | | | | | | |
| | | | | | | 682.48 | -0.50 | -0.021 | 24 | 682.98 | -0.25 | -0.021 | 12 | 683.22 | -0.40 | -0.040 | 10 | 682.82 | 154+01.67 | 682.82 | 10 | -0.040 | -0.40 | 683.22 | 12 | 0.021 | 0.25 | 683.47 | 24 | 0.021 | 0.50 | 683.97 | | | | | | P.C. |
| | | | | | | 682.30 | -0.56 | -0.023 | 24 | 682.86 | -0.28 | -0.023 | 12 | 683.15 | -0.40 | -0.040 | 10 | 682.75 | 154+25.00 | 682.75 | 10 | -0.040 | -0.40 | 683.15 | 12 | 0.023 | 0.28 | 683.43 | 24 | 0.023 | 0.56 | 683.99 | | | | | | |
| | | | | | | 682.09 | -0.63 | -0.026 | 24 | 682.72 | -0.32 | -0.026 | 12 | 683.03 | -0.40 | -0.040 | 10 | 682.63 | 154+50.00 | 682.63 | 10 | -0.040 | -0.40 | 683.03 | 12 | 0.026 | 0.32 | 683.35 | 24 | 0.026 | 0.63 | 683.98 | | | | | | |
| | | | | | | 681.84 | -0.70 | -0.029 | 24 | 682.54 | -0.35 | -0.029 | 12 | 682.89 | -0.40 | -0.040 | 10 | 682.49 | 154+75.00 | 682.49 | 10 | -0.040 | -0.40 | 682.89 | 12 | 0.029 | 0.35 | 683.24 | 24 | 0.029 | 0.70 | 683.95 | | | | | | |
| F.S. | | | | | | 681.68 | -0.74 | -0.031 | 24 | 682.43 | -0.37 | -0.031 | 12 | 682.80 | -0.22 | | 10 | 682.57 | 154+90.00 | 682.40 | 10 | -0.040 | -0.40 | 682.80 | 12 | 0.031 | 0.37 | 683.17 | 24 | 0.031 | 0.74 | 683.91 | | | | | | F.S. |
| | | | | | | 681.62 | -1.12 | -0.031 | 36 | - | - | - | - | 682.73 | -0.22 | | 10 | 682.51 | 155+00.00 | 682.33 | 10 | -0.040 | -0.40 | 682.73 | - | - | - | - | 36 | 0.031 | 1.12 | 683.85 | | | | | | |
| | | | | | | 681.46 | -1.12 | -0.031 | 36 | - | - | - | - | 682.57 | -0.22 | | 10 | 682.35 | 155+25.00 | 682.17 | 10 | -0.040 | -0.40 | 682.57 | - | - | - | - | 36 | 0.031 | 1.12 | 683.69 | | | | | | |
| | | | | | | 681.29 | -1.12 | -0.031 | 36 | - | - | - | - | 682.41 | -0.22 | | 10 | 682.19 | 155+50.00 | 682.01 | 10 | -0.040 | -0.40 | 682.41 | - | - | - | - | 36 | 0.031 | 1.12 | 683.53 | | | | | | |
| | | | | | | 681.13 | -1.12 | -0.031 | 36 | - | - | - | - | 682.25 | -0.22 | | 10 | 682.03 | 155+75.00 | 681.85 | 10 | -0.040 | -0.40 | 682.25 | - | - | - | - | 36 | 0.031 | 1.12 | 683.36 | | | | | | |
| | | | | | | 680.97 | -1.12 | -0.031 | 36 | - | - | - | - | 682.09 | -0.22 | | 10 | 681.86 | 156+00.00 | 681.69 | 10 | -0.040 | -0.40 | 682.09 | - | - | - | - | 36 | 0.031 | 1.12 | 683.20 | | | | | | |
| | | | | | | 680.81 | -1.12 | -0.031 | 36 | - | - | - | - | 681.93 | -0.22 | | 10 | 681.70 | 156+25.00 | 681.53 | 10 | -0.040 | -0.40 | 681.93 | - | - | - | - | 36 | 0.031 | 1.12 | 683.04 | | | | | | |
| | | | | | | 680.65 | -1.12 | -0.031 | 36 | - | - | - | - | 681.76 | -0.22 | | 10 | 681.54 | 156+50.00 | 681.36 | 10 | -0.040 | -0.40 | 681.76 | - | - | - | - | 36 | 0.031 | 1.12 | 682.88 | | | | | | |
| | | | | | | 680.49 | -1.12 | -0.031 | 36 | - | - | - | - | 681.60 | -0.22 | | 10 | 681.38 | 156+75.00 | 681.20 | 10 | -0.040 | -0.40 | 681.60 | - | - | - | - | 36 | 0.031 | 1.12 | 682.72 | | | | | | |
| | | | | | | 680.32 | -1.12 | -0.031 | 36 | - | - | - | - | 681.44 | -0.22 | | 10 | 681.22 | 157+00.00 | 681.04 | 10 | -0.040 | -0.40 | 681.44 | - | - | - | - | 36 | 0.031 | 1.12 | 682.56 | | | | | | |
| | | | | | | 680.16 | -1.12 | -0.031 | 36 | - | - | - | - | 681.28 | -0.22 | | 10 | 681.06 | 157+25.00 | 680.88 | 10 | -0.040 | -0.40 | 681.28 | - | - | - | - | 36 | 0.031 | 1.12 | 682.39 | | | | | | |
| | | 679.60 | -0.40 | -0.040 | 10 | 680.00 | -1.12 | -0.031 | 36 | - | - | - | - | 681.12 | -0.22 | | 10 | 680.89 | 157+50.00 | 680.72 | 10 | -0.040 | -0.40 | 681.12 | - | - | - | - | 36 | 0.031 | 1.12 | 682.23 | | | | | | |
| | | 679.44 | -0.40 | -0.040 | 10 | 679.84 | -1.12 | -0.031 | 36 | - | - | - | - | 680.96 | -0.22 | | 10 | 680.73 | 157+75.00 | 680.56 | 10 | -0.040 | -0.40 | 680.96 | - | - | - | - | 36 | 0.031 | 1.12 | 682.07 | | | | | | |
| | | 679.28 | -0.40 | -0.040 | 10 | 679.68 | -1.12 | -0.031 | 36 | - | - | - | - | 680.79 | -0.22 | | 10 | 680.57 | 158+00.00 | 680.39 | 10 | -0.040 | -0.40 | 680.79 | - | - | - | - | 36 | 0.031 | 1.12 | 681.91 | | | | | | |
| | | 679.12 | -0.40 | -0.040 | 10 | 679.52 | -1.12 | -0.031 | 36 | - | - | - | - | 680.63 | -0.22 | | 10 | 680.41 | 158+25.00 | 680.23 | 10 | -0.040 | -0.40 | 680.63 | - | - | - | - | 36 | 0.031 | 1.12 | 681.75 | | | | | | |
| | | 678.96 | -0.40 | -0.040 | 10 | 679.36 | -1.12 | -0.031 | 36 | - | - | - | - | 680.47 | -0.22 | | 10 | 680.25 | 158+50.00 | 680.07 | 10 | -0.040 | -0.40 | 680.47 | - | - | - | - | 36 | 0.031 | 1.12 | 681.59 | | | | | | |
| | | 678.79 | -0.40 | -0.040 | 10 | 679.19 | -1.12 | -0.031 | 36 | - | - | - | - | 680.31 | -0.22 | | 10 | 680.09 | 158+75.00 | 679.91 | 10 | -0.040 | -0.40 | 680.31 | - | - | - | - | 36 | 0.031 | 1.12 | 681.43 | | | | | | |
| | | 678.63 | -0.40 | -0.040 | 10 | 679.03 | -1.12 | -0.031 | 36 | - | - | - | - | 680.15 | -0.22 | | 10 | 679.93 | 159+00.00 | 679.75 | 10 | -0.040 | -0.40 | 680.15 | - | - | - | - | 36 | 0.031 | 1.12 | 681.26 | | | | | | |
| | | 678.47 | -0.40 | -0.040 | 10 | 678.87 | -1.12 | -0.031 | 36 | - | - | - | - | 679.99 | -0.22 | | 10 | 679.76 | 159+25.00 | 679.59 | 10 | -0.040 | -0.40 | 679.99 | - | - | - | - | 36 | 0.031 | 1.12 | 681.10 | | | | | | |
| | | 678.31 | -0.40 | -0.040 | 10 | 678.71 | -1.12 | -0.031 | 36 | - | - | - | - | 679.83 | -0.22 | | 10 | 679.60 | 159+50.00 | 679.43 | 10 | -0.040 | -0.40 | 679.83 | - | - | - | - | 36 | 0.031 | 1.12 | 680.94 | | | | | | |
| | | 678.15 | -0.40 | -0.040 | 10 | 678.55 | -1.12 | -0.031 | 36 | - | - | - | - | 679.66 | -0.22 | | 10 | 679.44 | 159+75.00 | 679.26 | 10 | -0.040 | -0.40 | 679.66 | - | - | - | - | 36 | 0.031 | 1.12 | 680.78 | | | | | | |
| | | 677.99 | -0.40 | -0.040 | 10 | 678.39 | -1.12 | -0.031 | 36 | - | - | - | - | 679.50 | -0.22 | | 10 | 679.28 | 160+00.00 | 679.10 | 10 | -0.040 | -0.40 | 679.50 | - | - | - | - | 36 | 0.031 | 1.12 | 680.62 | | | | | | |
| | | 677.82 | -0.40 | -0.040 | 10 | 678.22 | -1.12 | -0.031 | 36 | - | - | - | - | 679.34 | -0.22 | | 10 | 679.12 | 160+25.00 | 678.94 | 10 | -0.040 | -0.40 | 679.34 | - | - | - | - | 36 | 0.031 | 1.12 | 680.46 | | | | | | |
| | | 677.66 | -0.40 | -0.040 | 10 | 678.06 | -1.12 | -0.031 | 36 | - | - | - | - | 679.18 | -0.22 | | 10 | 678.96 | 160+50.00 | 678.78 | 10 | -0.040 | -0.40 | 679.18 | - | - | - | - | 36 | 0.031 | 1.12 | 680.29 | | | | | | |
| | | 677.50 | -0.40 | -0.040 | 10 | 677.90 | -1.12 | -0.031 | 36 | - | - | - | - | 679.02 | -0.22 | | 10 | 678.79 | 160+75.00 | 678.62 | 10 | -0.040 | -0.40 | 679.02 | - | - | - | - | 36 | 0.031 | 1.12 | 680.13 | | | | | | |
| | | 677.34 | -0.40 | -0.040 | 10 | 677.74 | -1.12 | -0.031 | 36 | - | - | - | - | 678.86 | -0.22 | | 10 | 678.63 | 161+00.00 | 678.46 | 10 | -0.040 | -0.40 | 678.86 | - | - | - | - | 36 | 0.031 | 1.12 | 679.97 | | | | | | |
| | | 677.18 | -0.40 | -0.040 | 10 | 677.58 | -1.12 | -0.031 | 36 | - | - | - | - | 678.69 | -0.22 | | 10 | 678.47 | 161+25.00 | 678.29 | 10 | -0.040 | -0.40 | 678.69 | - | - | - | - | 36 | 0.031 | 1.12 | 679.81 | | | | | | |
| | | 677.02 | -0.40 | -0.040 | 10 | 677.42 | -1.12 | -0.031 | 36 | - | - | - | - | 678.53 | -0.22 | | 10 | 678.31 | 161+50.00 | 678.13 | 10 | -0.040 | -0.40 | 678.53 | - | - | - | - | 36 | 0.031 | 1.12 | 679.65 | | | | | | |
| | | 676.86 | -0.40 | -0.040 | 10 | 677.26 | -1.12 | -0.031 | 36 | - | - | - | - | 678.37 | -0.22 | | 10 | 678.15 | 161+75.00 | 677.97 | 10 | -0.040 | -0.40 | 678.37 | - | - | - | - | 36 | 0.031 | 1.12 | 679.49 | 10 | | -0.22 | 679.26 | | | | | |
| | | 676.69 | -0.40 | -0.040 | 10 | 677.09 | -1.12 | -0.031 | 36 | - | - | - | - | 678.21 | -0.22 | | 10 | 677.99 | 162+00.00 | 677.81 | 10 | -0.040 | -0.40 | 678.21 | - | - | - | - | 36 | 0.031 | 1.12 | 679.33 | 10 | | -0.22 | 679.10 | | | | | |
| | | 676.53 | -0.40 | -0.040 | 10 | 676.93 | -1.12 | -0.031 | 36 | - | - | - | - | 678.05 | -0.22 | | 10 | 677.83 | 162+25.00 | 677.65 | 10 | -0.040 | -0.40 | 678.05 | - | - | - | - | 36 | 0.031 | 1.12 | 679.16 | 10 | | -0.22 | 678.94 | | | | | |
| | | 676.38 | -0.40 | -0.040 | 10 | 676.78 | -1.12 | -0.031 | 36 | - | - | - | - | 677.89 | -0.22 | | 10 | 677.67 | 162+50.00 | 677.49 | 10 | -0.040 | -0.40 | 677.89 | - | - | - | - | 36 | 0.031 | 1.12 | 679.01 | 10 | | -0.22 | 678.79 | | | | | |
| | | 676.24 | -0.40 | -0.040 | 10 | 676.64 | -1.12 | -0.031 | 36 | - | - | - | - | 677.75 | -0.22 | | 10 | 677.53 | 162+75.00 | 677.35 | 10 | -0.040 | -0.40 | 677.75 | - | - | - | - | 36 | 0.031 | 1.12 | 678.87 | 10 | | -0.22 | 678.65 | | | | | |
| | | 676.11 | -0.40 | -0.040 | 10 | 676.51 | -1.12 | -0.031 | 36 | - | - | - | - | 677.63 | -0.22 | | 10 | 677.41 | 163+00.00 | 677.23 | 10 | -0.040 | -0.40 | 677.63 | - | - | - | - | 36 | 0.031 | 1.12 | 678.75 | 10 | | -0.22 | 678.52 | | | | | |
| | | 676.01 | -0.40 | -0.040 | 10 | 676.41 | -1.12 | -0.031 | 36 | - | - | - | - | 677.52 | -0.22 | | 10 | 677.30 | 163+25.00 | 677.12 | 10 | -0.040 | -0.40 | 677.52 | - | - | - | - | 36 | 0.031 | 1.12 | 678.64 | 10 | | -0.22 | 678.42 | | | | | |
| | | 675.92 | -0.40 | -0.040 | 10 | 676.32 | -1.12 | -0.031 | 36 | - | - | - | - | 677.43 | -0.22 | | 10 | 677.21 | 163+50.00 | 677.03 | 10 | -0.040 | -0.40 | 677.43 | - | - | - | - | 36 | 0.031 | 1.12 | 678.55 | 10 | | -0.22 | 678.33 | | | | | |
| | | 675.85 | -0.40 | -0.040 | 10 | 676.25 | -1.12 | -0.031 | 36 | - | - | - | - | 677.36 | -0.22 | | 10 | 677.14 | 163+75.00 | 676.96 | 10 | -0.040 | -0.40 | 677.36 | - | - | - | - | 36 | 0.031 | 1.12 | 678.48 | 10 | | -0.22 | 678.25 | | | | | |
| | | 675.79 | -0.40 | -0.040 | 10 | 676.19 | -1.12 | -0.031 | 36 | - | - | - | - | 677.31 | -0.22 | | 10 | 677.08 | 164+00.00 | 676.91 | 10 | -0.040 | -0.40 | 677.31 | - | - | - | - | 36 | 0.031 | 1.12 | 678.42 | 10 | | -0.22 | 678.20 | | | | | |
| | | 675.75 | -0.40 | -0.040 | 10 | 676.15 | -1.12 | -0.031 | 36 | - | - | - | - | 677.27 | -0.22 | | 10 | 677.04 | 164+25.00 | 676.87 | 10 | -0.040 | -0.40 | 677.27 | - | - | - | - | 36 | 0.031 | 1.12 | 678.38 | 10 | | -0.22 | 678.16 | | | | | |
| | | 675.73 | -0.40 | -0.040 | 10 | 676.13 | -1.12 | -0.031 | 36 | - | - | - | - | 677.24 | -0.22 | | 10 | 677.02 | 164+50.00 | 676.84 | 10 | -0.040 | -0.40 | 677.24 | - | - | - | - | 36 | 0.031 | 1.12 | 678.36 | 10 | | -0.22 | 678.14 | | | | | |
| F.S. | | 675.72 | -0.40 | -0.040 | 10 | 676.12 | -0.74 | -0.031 | 24 | 676.87 | -0.37 | -0.031 | 12 | 677.24 | -0.22 | | 10 | 677.02 | 164+70.00 | 676.84 | 10 | -0.040 | -0.40 | 677.24 | 12 | 0.031 | 0.37 | 677.61 | 24 | 0.031 | 0.74 | 678.35 | 10 | | -0.22 | 678.13 | | | F.S. |
| | | 675.74 | -0.40 | -0.040 | 10 | 676.14 | -0.73 | -0.030 | 24 | 676.87 | -0.37 | -0.030 | 12 | 677.24 | -0.40 | -0.040 | 10 | 676.84 | 164+75.00 | 676.84 | 10 | -0.040 | -0.40 | 677.24 | 12 | 0.030 | 0.37 | 677.60 | 24 | 0.030 | 0.73 | 678.33 | 10 | -0.040 | -0.40 | 677.93 | | | |
| | | 675.86 | -0.40 | -0.040 | 10 | 676.26 | -0.66 | -0.028 | 24 | 676.92 | -0.33 | -0.028 | 12 | 677.25 | -0.23 | -0.040 | 10 | 677.02 | 165+00.00 | 676.85 | 10 | -0.040 | -0.40 | 677.25 | 12 | 0.028 | 0.33 | 677.58 | 24 | 0.028 | 0.66 | 678.24 | 10 | -0.040 | -0.40 | 677.84 | | | |
| | | 675.99 | -0.40 | -0.040 | 10 | 676.39 | -0.59 | -0.025 | 24 | 676.98 | -0.30 | -0.025 | 12 | 677.28 | -0.40 | -0.040 | 10 | 676.88 | 165+25.00 | 676.88 | 10 | -0.040 | -0.40 | 677.28 | 12 | 0.025 | 0.30 | 677.57 | 24 | 0.025 | 0.59 | 678.17 | 10 | -0.040 | -0.40 | 677.77 | | | |
| | | 676.14 | -0.40 | -0.040 | 10 | 676.54 | -0.52 | -0.022 | 24 | 677.06 | -0.26 | -0.022 | 12 | 677.32 | -0.40 | -0.040 | 10 | 676.92 | 165+50.00 | 676.92 | 10 | -0.040 | -0.40 | 677.32 | 12 | 0.022 | 0.26 | 677.59 | 24 | 0.022 | 0.52 | 678.11 | 10 | -0.040 | -0.40 | 677.71 | | | |
| P.T. | | 676.20 | -0.40 | -0.040 | 10 | 676.60 | -0.50 | -0.021 | 24 | 677.10 | -0.25 | -0.021 | 12 | 677.35 | -0.40 | -0.040 | 10 | 676.95 | 165+60.07 | 676.95 | 10 | -0.040 | -0.40 | 677.35 | 12 | 0.021 | 0.25 | 677.59 | 24 | 0.021 | 0.50 | 678.09 | 10 | -0.040 | -0.40 | 677.69 | | | P.T. |
| | | 676.30 | -0.40 | -0.040 | 10 | 676.70 | -0.45 | -0.019 | 24 | 677.16 | -0.23 | -0.019 | 12 | 677.39 | -0.40 | -0.040 | 10 | 676.99 | 165+75.00 | 676.99 | 10 | -0.040 | -0.40 | 677.39 | 12 | 0.019 | 0.23 | 677.61 | 24 | 0.019 | 0.45 | 678.07 | 10 | -0.040 | -0.40 | 677.67 | | | |
| R.C. | | 676.49 | -0.40 | -0.040 | 10 | 676.89 | -0.38 | -0.016 | 24 | 677.27 | -0.19 | -0.016 | 12 | 677.46 | -0.40 | -0.040 | 10 | 677.06 | 166+00.00 | 677.06 | 10 | -0.040 | -0.40 | 677.46 | 12 | 0.016 | 0.19 | 677.66 | 24 | 0.016 | 0.38 | 678.04 | 10 | -0.040 | -0.40 | 677.64 | | | R.C. |
| | | 676.69 | -0.40 | -0.040 | 10 | 677.09 | -0.38 | -0.016 | 24 | 677.47 | -0.09 | -0.007 | 12 | 677.56 | -0.40 | -0.040 | 10 | 677.16 | 166+25.00 | 677.16 | 10 | -0.040 | -0.40 | 677.56 | 12 | 0.016 | 0.19 | 677.75 | 24 | 0.012 | 0.28 | 678.03 | 10 | -0.040 | -0.40 | 677.63 | | | |
| 1/2 FLAT | | 676.86 | -0.40 | -0.040 | 10 | 677.26 | -0.38 | -0.016 | 24 | 677.65 | 0.00 | 0.000 | 12 | 677.65 | -0.40 | -0.040 | 10 | 677.25 | 166+45.00 | 677.25 | 10 | -0.040 | -0.40 | 677.65 | 12 | 0.016 | 0.19 | 677.84 | 24 | 0.008 | 0.19 | 678.03 | 10 | -0.040 | -0.40 | 677.63 | | | |
| | | 676.91 | -0.40 | -0.040 | 10 | 677.31 | -0.38 | -0.016 | 24 | 677.69 | 0.02 | 0.002 | 12 | 677.67 | -0.40 | -0.040 | 10 | 677.27 | 166+50.00 | 677.27 | 10 | -0.040 | -0.40 | 677.67 | 12 | 0.016 | 0.19 | 677.86 | 24 | 0.007 | 0.17 | 678.03 | 10 | -0.040 | -0.40 | 677.63 | | | |
| | | 677.14 | -0.40 | -0.040 | 10 | 677.54 | -0.38 | -0.016 | 24 | 677.93 | 0.13 | 0.011 | 12 | 677.80 | -0.40 | -0.040 | 10 | 677.40 | 166+75.00 | 677.40 | 10 | -0.040 | -0.40 | 677.80 | 12 | 0.016 | 0.19 | 677.99 | 24 | 0.003 | 0.06 | 678.06 | 10 | -0.040 | -0.40 | 677.66 | | | |
| | | 677.29 | -0.40 | -0.040 | 10 | 677.69 | -0.38 | -0.016 | 24 | 678.08 | 0.19 | 0.016 | 12 | 677.89 | -0.40 | -0.040 | 10 | 677.49 | 166+90.00 | 677.49 | 10 | -0.040 | -0.40 | 677.89 | 12 | 0.016 | 0.19 | 678.08 | 24 | 0.000 | 0.00 | 678.08 | 10 | -0.040 | -0.40 | 677.68 | | | 1/2 FLAT |
| | | 677.35 | -0.40 | -0.040 | 10 | 677.75 | -0.38 | -0.016 | 24 | 678.14 | 0.19 | 0.016 | 12 | 677.95 | -0.40 | -0.040 | 10 | 677.55 | 167+00.00 | 677.55 | 10 | -0.040 | -0.40 | 677.95 | 12 | 0.016 | 0.19 | 678.14 | 24 | -0.002 | -0.04 | 678.09 | 10 | -0.040 | -0.40 | 677.69 | | | |
| | | 677.52 | -0.40 | -0.040 | 10 | 677.92 | -0.38 | -0.016 | 24 | 678.30 | 0.19 | 0.016 | 12 | 678.11 | -0.40 | -0.040 | 10 | 677.71 | 167+25.00 | 677.71 | 10 | -0.040 | -0.40 | 678.11 | 12 | 0.016 | 0.19 | 678.30 | 24 | -0.006 | -0.15 | 678.15 | 10 | -0.040 | -0.40 | 677.75 | | | |
| | | 677.69 | -0.40 | -0.040 | 10 | 678.09 | -0.38 | -0.016 | 24 | 678.47 | 0.19 | 0.016 | 12 | 678.28 | -0.40 | -0.040 | 10 | 677.88 | 167+50.00 | 677.88 | 10 | -0.040 | -0.40 | 678.28 | 12 | 0.016 | 0.19 | 678.47 | 24 | -0.011 | -0.26 | 678.22 | 10 | -0.040 | -0.40 | 677.82 | | | |
| | | 677.86 | -0.40 | -0.040 | 10 | 678.26 | -0.38 | -0.016 | 24 | 678.65 | 0.19 | 0.016 | 12 | 678.46 | -0.40 | -0.040 | 10 | 678.06 | 167+75.00 | 678.06 | 10 | -0.040 | -0.40 | 678.46 | 12 | 0.016 | 0.19 | 678.65 | 24 | -0.015 | -0.36 | 678.29 | 10 | -0.040 | -0.40 | 677.89 | | | |
| N.C. | | 677.90 | -0.40 | -0.040 | 10 | 678.30 | -0.38 | -0.016 | 24 | 678.68 | 0.19 | 0.016 | 12 | 678.49 | -0.40 | -0.040 | 10 | 678.09 | 167+80.00 | 678.09 | 10 | -0.040 | -0.40 | 678.49 | 12 | 0.016 | 0.19 | 678.68 | 24 | -0.016 | -0.38 | 678.30 | 10 | -0.040 | -0.40 | 677.90 | | | N.C. |

233 : 1 — ARE OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS

233 : 1 — AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS

HIGH SIDE SHOULDER WITH ROUNDING, SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

HIGH SIDE SHOULDER WITH ROUNDING, SEE TYPICALS FOR DETAILS

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans Not for Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 4

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.615 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-5 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:26:07 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

# SUPERELEVATION TABLE - CURVE 5

| REMARKS | P.I. STATION 179+84.25 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°30'00" LT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| N.C. | | 681.49 | -0.59 | -0.040 | 10 | 681.89 | -0.19 | -0.016 | 24 | 682.27 | 0.19 | 0.016 | 12 | 682.08 | -0.40 | -0.040 | 10 | 681.68 | 172+95.00 | 681.68 | 10 | -0.040 | -0.40 | 682.08 | 12 | 0.016 | 0.19 | 682.27 | 24 | -0.016 | -0.38 | 681.89 | 10 | -0.040 | -0.40 | 681.49 | | N.C. |
| | | 681.52 | -0.59 | -0.040 | 10 | 681.92 | -0.19 | -0.016 | 24 | 682.31 | 0.19 | 0.016 | 12 | 682.12 | -0.40 | -0.040 | 10 | 681.72 | 173+00.00 | 681.72 | 10 | -0.040 | -0.40 | 682.12 | 12 | 0.016 | 0.19 | 682.31 | 24 | -0.015 | -0.36 | 681.94 | 10 | -0.040 | -0.40 | 681.54 | | |
| | | 681.70 | -0.59 | -0.040 | 10 | 682.10 | -0.19 | -0.016 | 24 | 682.48 | 0.19 | 0.016 | 12 | 682.29 | -0.40 | -0.040 | 10 | 681.89 | 173+25.00 | 681.89 | 10 | -0.040 | -0.40 | 682.29 | 12 | 0.016 | 0.19 | 682.48 | 24 | -0.011 | -0.26 | 682.23 | 10 | -0.040 | -0.40 | 681.83 | | |
| | | 681.87 | -0.59 | -0.040 | 10 | 682.27 | -0.19 | -0.016 | 24 | 682.66 | 0.19 | 0.016 | 12 | 682.46 | -0.40 | -0.040 | 10 | 682.06 | 173+50.00 | 682.06 | 10 | -0.040 | -0.40 | 682.46 | 12 | 0.016 | 0.19 | 682.66 | 24 | -0.006 | -0.15 | 682.51 | 10 | -0.040 | -0.40 | 682.11 | | |
| | | 682.05 | -0.59 | -0.040 | 10 | 682.45 | -0.19 | -0.016 | 24 | 682.83 | 0.19 | 0.016 | 12 | 682.64 | -0.40 | -0.040 | 10 | 682.24 | 173+75.00 | 682.24 | 10 | -0.040 | -0.40 | 682.64 | 12 | 0.016 | 0.19 | 682.83 | 24 | -0.002 | -0.04 | 682.79 | 10 | -0.040 | -0.40 | 682.39 | | |
| | | 682.12 | -0.59 | -0.040 | 10 | 682.52 | -0.19 | -0.016 | 24 | 682.90 | 0.19 | 0.016 | 12 | 682.71 | -0.40 | -0.040 | 10 | 682.31 | 173+85.00 | 682.31 | 10 | -0.040 | -0.40 | 682.71 | 12 | 0.016 | 0.19 | 682.90 | 24 | 0.000 | 0.00 | 682.90 | 10 | -0.040 | -0.40 | 682.50 | | 1/2 FLAT |
| | | 682.16 | -0.66 | -0.040 | 10 | 682.56 | -0.26 | -0.016 | 24 | 682.94 | 0.13 | 0.011 | 12 | 682.81 | -0.40 | -0.040 | 10 | 682.41 | 174+00.00 | 682.41 | 10 | -0.040 | -0.40 | 682.81 | 12 | 0.016 | 0.19 | 683.00 | 24 | 0.003 | 0.06 | 683.07 | 10 | -0.040 | -0.40 | 682.67 | | |
| | | 682.22 | -0.76 | -0.040 | 10 | 682.62 | -0.36 | -0.016 | 24 | 683.01 | 0.02 | 0.002 | 12 | 682.99 | -0.40 | -0.040 | 10 | 682.59 | 174+25.00 | 682.59 | 10 | -0.040 | -0.40 | 682.99 | 12 | 0.016 | 0.19 | 683.18 | 24 | 0.007 | 0.17 | 683.35 | 10 | -0.040 | -0.40 | 682.95 | | |
| | | 682.24 | -0.78 | -0.040 | 10 | 682.64 | -0.38 | -0.016 | 24 | 683.02 | 0.00 | 0.000 | 12 | 683.02 | -0.40 | -0.040 | 10 | 682.62 | 174+30.00 | 682.62 | 10 | -0.040 | -0.40 | 683.02 | 12 | 0.016 | 0.19 | 683.21 | 24 | 0.008 | 0.19 | 683.40 | 10 | -0.040 | -0.40 | 683.00 | | |
| | | 682.28 | -0.87 | -0.040 | 10 | 682.68 | -0.47 | -0.016 | 24 | 683.07 | -0.09 | -0.007 | 12 | 683.15 | -0.40 | -0.040 | 10 | 682.75 | 174+50.00 | 682.75 | 10 | -0.040 | -0.40 | 683.15 | 12 | 0.016 | 0.19 | 683.35 | 24 | 0.012 | 0.28 | 683.62 | 10 | -0.040 | -0.40 | 683.22 | | |
| | | 682.33 | -0.98 | -0.040 | 10 | 682.73 | -0.58 | -0.016 | 24 | 683.11 | -0.19 | -0.016 | 12 | 683.30 | -0.40 | -0.040 | 10 | 682.90 | 174+75.00 | 682.90 | 10 | -0.040 | -0.40 | 683.30 | 12 | 0.016 | 0.19 | 683.50 | 24 | 0.016 | 0.38 | 683.88 | 10 | -0.040 | -0.40 | 683.48 | | R.C. |
| | | 682.36 | -1.08 | -0.040 | 10 | 682.76 | -0.68 | -0.019 | 24 | 683.21 | -0.23 | -0.019 | 12 | 683.43 | -0.40 | -0.040 | 10 | 683.03 | 175+00.00 | 683.03 | 10 | -0.040 | -0.40 | 683.43 | 12 | 0.019 | 0.23 | 683.66 | 24 | 0.019 | 0.45 | 684.11 | 10 | -0.040 | -0.40 | 683.71 | | |
| | | 682.36 | -1.18 | -0.040 | 10 | 682.76 | -0.78 | -0.022 | 24 | 683.28 | -0.26 | -0.022 | 12 | 683.54 | -0.40 | -0.040 | 10 | 683.14 | 175+25.00 | 683.14 | 10 | -0.040 | -0.40 | 683.54 | 12 | 0.022 | 0.26 | 683.80 | 24 | 0.022 | 0.52 | 684.33 | 10 | -0.040 | -0.40 | 683.93 | | |
| | | 682.35 | -1.28 | -0.040 | 10 | 682.75 | -0.88 | -0.024 | 24 | 683.34 | -0.30 | -0.025 | 12 | 683.63 | -0.40 | -0.040 | 10 | 683.23 | 175+50.00 | 683.23 | 10 | -0.040 | -0.40 | 683.63 | 12 | 0.025 | 0.30 | 683.93 | 24 | 0.025 | 0.59 | 684.52 | 10 | -0.040 | -0.40 | 684.12 | | |
| | | 682.32 | -1.38 | -0.040 | 10 | 682.72 | -0.98 | -0.027 | 24 | 683.37 | -0.33 | -0.027 | 12 | 683.70 | -0.40 | -0.040 | 10 | 683.30 | 175+73.03 | 683.30 | 10 | -0.040 | -0.40 | 683.70 | 12 | 0.027 | 0.33 | 684.03 | 24 | 0.027 | 0.66 | 684.68 | 10 | -0.040 | -0.40 | 684.28 | | P.C. |
| | | 682.32 | -1.38 | -0.040 | 10 | 682.72 | -0.98 | -0.027 | 24 | 683.37 | -0.33 | -0.028 | 12 | 683.70 | -0.40 | -0.040 | 10 | 683.30 | 175+75.00 | 683.30 | 10 | -0.040 | -0.40 | 683.70 | 12 | 0.028 | 0.33 | 684.03 | 24 | 0.028 | 0.66 | 684.70 | 10 | -0.040 | -0.40 | 684.30 | | |
| | | 682.26 | -1.49 | -0.040 | 10 | 682.66 | -1.09 | -0.030 | 24 | 683.39 | -0.37 | -0.030 | 12 | 683.76 | -0.20 | -0.020 | 10 | 683.56 | 176+00.00 | 683.36 | 10 | -0.040 | -0.40 | 683.76 | 12 | 0.030 | 0.37 | 684.12 | 24 | 0.030 | 0.73 | 684.85 | 10 | -0.020 | -0.20 | 684.65 | | |
| | | 682.19 | -1.60 | -0.040 | 10 | 682.59 | -1.20 | -0.033 | 24 | 683.39 | -0.40 | -0.033 | 12 | 683.79 | -0.20 | -0.020 | 10 | 683.59 | 176+25.00 | 683.39 | 10 | -0.040 | -0.40 | 683.79 | 12 | 0.033 | 0.40 | 684.19 | 24 | 0.033 | 0.80 | 684.99 | 10 | -0.020 | -0.20 | 684.79 | | |
| | | 682.10 | -1.70 | -0.040 | 10 | 682.50 | -1.30 | -0.036 | 24 | 683.36 | -0.44 | -0.036 | 12 | 683.80 | -0.20 | -0.020 | 10 | 683.60 | 176+50.00 | 683.40 | 10 | -0.040 | -0.40 | 683.80 | 12 | 0.036 | 0.44 | 684.24 | 24 | 0.036 | 0.87 | 685.11 | 10 | -0.020 | -0.20 | 684.91 | | |
| | | 681.98 | -1.81 | -0.040 | 10 | 682.38 | -1.41 | -0.039 | 24 | 683.32 | -0.47 | -0.039 | 12 | 683.79 | -0.20 | -0.020 | 10 | 683.59 | 176+75.00 | 683.39 | 10 | -0.040 | -0.40 | 683.79 | 12 | 0.039 | 0.47 | 684.26 | 24 | 0.039 | 0.94 | 685.21 | 10 | -0.020 | -0.20 | 685.01 | | |
| | 233 : 1 | 681.89 | -1.89 | -0.041 | 10 | 682.30 | -1.48 | -0.041 | 24 | 683.29 | -0.49 | -0.041 | 12 | 683.78 | -0.20 | -0.020 | 10 | 683.58 | 176+90.00 | 683.37 | 10 | -0.041 | -0.41 | 683.78 | 12 | 0.041 | 0.49 | 684.27 | 24 | 0.041 | 0.98 | 685.26 | 10 | -0.020 | -0.20 | 685.06 | 233 : 1 | F.S. |
| | | 681.88 | -1.89 | -0.041 | 10 | 682.29 | -1.48 | -0.041 | 36 | - | - | - | - | 683.77 | -0.20 | -0.020 | 10 | 683.57 | 177+00.00 | 683.36 | 10 | -0.041 | -0.41 | 683.77 | - | - | - | - | 36 | 0.041 | 1.48 | 685.24 | 10 | -0.020 | -0.20 | 685.04 | | |
| | | 681.84 | -1.89 | -0.041 | 10 | 682.25 | -1.48 | -0.041 | 36 | - | - | - | - | 683.72 | -0.20 | -0.020 | 10 | 683.52 | 177+25.00 | 683.31 | 10 | -0.041 | -0.41 | 683.72 | - | - | - | - | 36 | 0.041 | 1.48 | 685.20 | 10 | -0.020 | -0.20 | 685.00 | | |
| | | 681.77 | -1.89 | -0.041 | 10 | 682.18 | -1.48 | -0.041 | 36 | - | - | - | - | 683.66 | -0.20 | -0.020 | 10 | 683.46 | 177+50.00 | 683.25 | 10 | -0.041 | -0.41 | 683.66 | - | - | - | - | 36 | 0.041 | 1.48 | 685.13 | 10 | -0.020 | -0.20 | 684.93 | | |
| | | 681.68 | -1.89 | -0.041 | 10 | 682.09 | -1.48 | -0.041 | 36 | - | - | - | - | 683.57 | -0.20 | -0.020 | 10 | 683.37 | 177+75.00 | 683.16 | 10 | -0.041 | -0.41 | 683.57 | - | - | - | - | 36 | 0.041 | 1.48 | 685.05 | 10 | -0.020 | -0.20 | 684.85 | | |
| | | 681.58 | -1.89 | -0.041 | 10 | 681.99 | -1.48 | -0.041 | 36 | - | - | - | - | 683.47 | -0.20 | -0.020 | 10 | 683.27 | 178+00.00 | 683.06 | 10 | -0.041 | -0.41 | 683.47 | - | - | - | - | 36 | 0.041 | 1.48 | 684.94 | 10 | -0.020 | -0.20 | 684.74 | | |
| | | 681.46 | -1.89 | -0.041 | 10 | 681.87 | -1.48 | -0.041 | 36 | - | - | - | - | 683.34 | -0.20 | -0.020 | 10 | 683.14 | 178+25.00 | 682.93 | 10 | -0.041 | -0.41 | 683.34 | - | - | - | - | 36 | 0.041 | 1.48 | 684.82 | 10 | -0.020 | -0.20 | 684.62 | | |
| | | 681.32 | -1.89 | -0.041 | 10 | 681.73 | -1.48 | -0.041 | 36 | - | - | - | - | 683.21 | -0.20 | -0.020 | 10 | 683.01 | 178+50.00 | 682.80 | 10 | -0.041 | -0.41 | 683.21 | - | - | - | - | 36 | 0.041 | 1.48 | 684.68 | 10 | -0.020 | -0.20 | 684.48 | | |
| | | 681.18 | -1.89 | -0.041 | 10 | 681.59 | -1.48 | -0.041 | 36 | - | - | - | - | 683.07 | -0.20 | -0.020 | 10 | 682.87 | 178+75.00 | 682.66 | 10 | -0.041 | -0.41 | 683.07 | - | - | - | - | 36 | 0.041 | 1.48 | 684.54 | 10 | -0.020 | -0.20 | 684.34 | | |
| | | 681.04 | -1.89 | -0.041 | 10 | 681.45 | -1.48 | -0.041 | 36 | - | - | - | - | 682.93 | -0.20 | -0.020 | 10 | 682.73 | 179+00.00 | 682.52 | 10 | -0.041 | -0.41 | 682.93 | - | - | - | - | 36 | 0.041 | 1.48 | 684.41 | 10 | -0.020 | -0.20 | 684.21 | | |
| | | 680.91 | -1.89 | -0.041 | 10 | 681.32 | -1.48 | -0.041 | 36 | - | - | - | - | 682.79 | -0.20 | -0.020 | 10 | 682.59 | 179+25.00 | 682.38 | 10 | -0.041 | -0.41 | 682.79 | - | - | - | - | 36 | 0.041 | 1.48 | 684.27 | 10 | -0.020 | -0.20 | 684.07 | | |
| | | 680.77 | -1.89 | -0.041 | 10 | 681.18 | -1.48 | -0.041 | 36 | - | - | - | - | 682.66 | -0.20 | -0.020 | 10 | 682.46 | 179+50.00 | 682.25 | 10 | -0.041 | -0.41 | 682.66 | - | - | - | - | 36 | 0.041 | 1.48 | 684.13 | 10 | -0.020 | -0.20 | 683.93 | | |
| | | 680.63 | -1.89 | -0.041 | 10 | 681.04 | -1.48 | -0.041 | 36 | - | - | - | - | 682.52 | -0.20 | -0.020 | 10 | 682.32 | 179+75.00 | 682.11 | 10 | -0.041 | -0.41 | 682.52 | - | - | - | - | 36 | 0.041 | 1.48 | 683.99 | 10 | -0.020 | -0.20 | 683.79 | | |
| | | 680.49 | -1.89 | -0.041 | 10 | 680.90 | -1.48 | -0.041 | 36 | - | - | - | - | 682.38 | -0.20 | -0.020 | 10 | 682.18 | 180+00.00 | 681.97 | 10 | -0.041 | -0.41 | 682.38 | - | - | - | - | 36 | 0.041 | 1.48 | 683.86 | 10 | -0.020 | -0.20 | 683.66 | | |
| | | 680.36 | -1.89 | -0.041 | 10 | 680.77 | -1.48 | -0.041 | 36 | - | - | - | - | 682.24 | -0.20 | -0.020 | 10 | 682.04 | 180+25.00 | 681.83 | 10 | -0.041 | -0.41 | 682.24 | - | - | - | - | 36 | 0.041 | 1.48 | 683.72 | 10 | -0.020 | -0.20 | 683.52 | | |
| | | 680.22 | -1.89 | -0.041 | 10 | 680.63 | -1.48 | -0.041 | 36 | - | - | - | - | 682.11 | -0.20 | -0.020 | 10 | 681.91 | 180+50.00 | 681.70 | 10 | -0.041 | -0.41 | 682.11 | - | - | - | - | 36 | 0.041 | 1.48 | 683.58 | 10 | -0.020 | -0.20 | 683.38 | | |
| | | 680.08 | -1.89 | -0.041 | 10 | 680.49 | -1.48 | -0.041 | 36 | - | - | - | - | 681.97 | -0.20 | -0.020 | 10 | 681.77 | 180+75.00 | 681.56 | 10 | -0.041 | -0.41 | 681.97 | - | - | - | - | 36 | 0.041 | 1.48 | 683.44 | 10 | -0.020 | -0.20 | 683.24 | | |
| | | 679.94 | -1.89 | -0.041 | 10 | 680.35 | -1.48 | -0.041 | 36 | - | - | - | - | 681.83 | -0.20 | -0.020 | 10 | 681.63 | 181+00.00 | 681.42 | 10 | -0.041 | -0.41 | 681.83 | - | - | - | - | 36 | 0.041 | 1.48 | 683.31 | 10 | -0.020 | -0.20 | 683.11 | | |
| | | 679.81 | -1.89 | -0.041 | 10 | 680.22 | -1.48 | -0.041 | 36 | - | - | - | - | 681.69 | -0.20 | -0.020 | 10 | 681.49 | 181+25.00 | 681.28 | 10 | -0.041 | -0.41 | 681.69 | - | - | - | - | 36 | 0.041 | 1.48 | 683.17 | 10 | -0.020 | -0.20 | 682.97 | | |
| | | 679.67 | -1.89 | -0.041 | 10 | 680.08 | -1.48 | -0.041 | 36 | - | - | - | - | 681.56 | -0.20 | -0.020 | 10 | 681.36 | 181+50.00 | 681.15 | 10 | -0.041 | -0.41 | 681.56 | - | - | - | - | 36 | 0.041 | 1.48 | 683.03 | 10 | -0.020 | -0.20 | 682.83 | | |
| | | 679.53 | -1.89 | -0.041 | 10 | 679.94 | -1.48 | -0.041 | 36 | - | - | - | - | 681.42 | -0.20 | -0.020 | 10 | 681.22 | 181+75.00 | 681.01 | 10 | -0.041 | -0.41 | 681.42 | - | - | - | - | 36 | 0.041 | 1.48 | 682.89 | 10 | -0.020 | -0.20 | 682.69 | | |
| | | 679.39 | -1.89 | -0.041 | 10 | 679.80 | -1.48 | -0.041 | 36 | - | - | - | - | 681.28 | -0.20 | -0.020 | 10 | 681.08 | 182+00.00 | 680.87 | 10 | -0.041 | -0.41 | 681.28 | - | - | - | - | 36 | 0.041 | 1.48 | 682.76 | 10 | -0.020 | -0.20 | 682.56 | | |
| | | 679.28 | -1.89 | -0.041 | 10 | 679.69 | -1.48 | -0.041 | 24 | 680.68 | -0.49 | -0.041 | 12 | 681.17 | -0.20 | -0.020 | 10 | 680.97 | 182+20.00 | 680.76 | 10 | -0.041 | -0.41 | 681.17 | 12 | 0.041 | 0.49 | 681.66 | 24 | 0.041 | 0.98 | 682.65 | 10 | -0.020 | -0.20 | 682.45 | | F.S. |
| | | 679.29 | -1.85 | -0.040 | 10 | 679.69 | -1.45 | -0.040 | 24 | 680.66 | -0.48 | -0.040 | 12 | 681.14 | -0.20 | -0.020 | 10 | 680.94 | 182+25.00 | 680.74 | 10 | -0.040 | -0.40 | 681.14 | 12 | 0.040 | 0.48 | 681.63 | 24 | 0.040 | 0.97 | 682.60 | 10 | -0.020 | -0.20 | 682.40 | | |
| | | 679.26 | -1.75 | -0.040 | 10 | 679.66 | -1.35 | -0.037 | 24 | 680.56 | -0.45 | -0.037 | 12 | 681.01 | -0.20 | -0.020 | 10 | 680.81 | 182+50.00 | 680.61 | 10 | -0.040 | -0.40 | 681.01 | 12 | 0.037 | 0.45 | 681.45 | 24 | 0.037 | 0.90 | 682.35 | 10 | -0.020 | -0.20 | 682.15 | | |
| | | 679.23 | -1.64 | -0.040 | 10 | 679.63 | -1.24 | -0.034 | 24 | 680.45 | -0.41 | -0.034 | 12 | 680.87 | -0.20 | -0.020 | 10 | 680.67 | 182+75.00 | 680.47 | 10 | -0.040 | -0.40 | 680.87 | 12 | 0.034 | 0.41 | 681.28 | 24 | 0.034 | 0.83 | 682.11 | 10 | -0.020 | -0.20 | 681.91 | | |
| | | 679.20 | -1.53 | -0.040 | 10 | 679.60 | -1.13 | -0.031 | 24 | 680.35 | -0.38 | -0.031 | 12 | 680.73 | -0.20 | -0.020 | 10 | 680.53 | 183+00.00 | 680.33 | 10 | -0.040 | -0.40 | 680.73 | 12 | 0.031 | 0.38 | 681.11 | 24 | 0.031 | 0.76 | 681.86 | 10 | -0.020 | -0.20 | 681.66 | | |
| | | 679.17 | -1.43 | -0.040 | 10 | 679.57 | -1.03 | -0.029 | 24 | 680.25 | -0.34 | -0.029 | 12 | 680.59 | -0.40 | -0.040 | 10 | 680.19 | 183+25.00 | 680.19 | 10 | -0.040 | -0.40 | 680.59 | 12 | 0.029 | 0.34 | 680.93 | 24 | 0.029 | 0.68 | 681.62 | 10 | -0.040 | -0.40 | 681.22 | | |
| | | 679.14 | -1.32 | -0.040 | 10 | 679.54 | -0.92 | -0.026 | 24 | 680.15 | -0.31 | -0.026 | 12 | 680.46 | -0.40 | -0.040 | 10 | 680.06 | 183+50.00 | 680.06 | 10 | -0.040 | -0.40 | 680.46 | 12 | 0.026 | 0.31 | 680.76 | 24 | 0.026 | 0.61 | 681.37 | 10 | -0.040 | -0.40 | 680.97 | | |
| | | 679.10 | -1.21 | -0.040 | 10 | 679.50 | -0.81 | -0.023 | 24 | 680.05 | -0.27 | -0.023 | 12 | 680.32 | -0.40 | -0.040 | 10 | 679.92 | 183+75.00 | 679.92 | 10 | -0.040 | -0.40 | 680.32 | 12 | 0.023 | 0.27 | 680.59 | 24 | 0.023 | 0.54 | 681.13 | 10 | -0.040 | -0.40 | 680.73 | | |
| | | 679.08 | -1.14 | -0.040 | 10 | 679.48 | -0.74 | -0.021 | 24 | 679.97 | -0.25 | -0.021 | 12 | 680.22 | -0.40 | -0.040 | 10 | 679.82 | 183+92.31 | 679.82 | 10 | -0.040 | -0.40 | 680.22 | 12 | 0.021 | 0.25 | 680.47 | 24 | 0.021 | 0.49 | 680.96 | 10 | -0.040 | -0.40 | 680.56 | | #5 P.T. |
| | | 679.08 | -1.10 | -0.040 | 10 | 679.48 | -0.70 | -0.020 | 24 | 679.95 | -0.23 | -0.020 | 12 | 680.18 | -0.40 | -0.040 | 10 | 679.78 | 184+00.00 | 679.78 | 10 | -0.040 | -0.40 | 680.18 | 12 | 0.020 | 0.23 | 680.41 | 24 | 0.020 | 0.47 | 680.88 | 10 | -0.040 | -0.40 | 680.48 | | |
| | | 679.05 | -1.00 | -0.040 | 10 | 679.45 | -0.60 | -0.017 | 24 | 679.84 | -0.20 | -0.017 | 12 | 680.04 | -0.40 | -0.040 | 10 | 679.64 | 184+25.00 | 679.64 | 10 | -0.040 | -0.40 | 680.04 | 12 | 0.017 | 0.20 | 680.24 | 24 | 0.017 | 0.40 | 680.64 | 10 | -0.040 | -0.40 | 680.24 | | |
| | | 679.01 | -0.89 | -0.040 | 10 | 679.41 | -0.49 | -0.014 | 24 | 679.74 | -0.16 | -0.014 | 12 | 679.91 | -0.40 | -0.040 | 10 | 679.51 | 184+50.00 | 679.51 | 10 | -0.040 | -0.40 | 679.91 | 12 | 0.014 | 0.16 | 680.07 | 24 | 0.014 | 0.33 | 680.40 | 10 | -0.040 | -0.40 | 680.00 | | |
| | 233 : 1 | 678.98 | -0.78 | -0.040 | 10 | 679.38 | -0.38 | -0.011 | 24 | 679.64 | -0.13 | -0.011 | 12 | 679.77 | -0.40 | -0.040 | 10 | 679.37 | 184+75.00 | 679.37 | 10 | -0.040 | -0.40 | 679.77 | 12 | 0.011 | 0.13 | 679.90 | 24 | 0.011 | 0.26 | 680.15 | 10 | -0.040 | -0.40 | 679.75 | 233 : 1 | |
| | | 678.95 | -0.68 | -0.040 | 10 | 679.35 | -0.28 | -0.008 | 24 | 679.54 | -0.09 | -0.008 | 12 | 679.63 | -0.40 | -0.040 | 10 | 679.23 | 185+00.00 | 679.23 | 10 | -0.040 | -0.40 | 679.63 | 12 | 0.008 | 0.09 | 679.72 | 24 | 0.008 | 0.18 | 679.91 | 10 | -0.040 | -0.40 | 679.51 | | |
| | | 678.92 | -0.57 | -0.040 | 10 | 679.32 | -0.17 | -0.005 | 24 | 679.44 | -0.06 | -0.005 | 12 | 679.49 | -0.40 | -0.040 | 10 | 679.09 | 185+25.00 | 679.09 | 10 | -0.040 | -0.40 | 679.49 | 12 | 0.005 | 0.06 | 679.55 | 24 | 0.005 | 0.11 | 679.66 | 10 | -0.040 | -0.40 | 679.26 | | |
| | | 678.89 | -0.46 | -0.040 | 10 | 679.29 | -0.06 | -0.002 | 24 | 679.33 | -0.02 | -0.002 | 12 | 679.36 | -0.40 | -0.040 | 10 | 678.96 | 185+50.00 | 678.96 | 10 | -0.040 | -0.40 | 679.36 | 12 | 0.002 | 0.02 | 679.38 | 24 | 0.002 | 0.04 | 679.42 | 10 | -0.040 | -0.40 | 679.02 | | |
| | | 678.86 | -0.35 | -0.040 | 10 | 679.26 | 0.05 | 0.001 | 24 | 679.23 | 0.02 | 0.001 | 12 | 679.22 | -0.40 | -0.040 | 10 | 678.82 | 185+75.00 | 678.82 | 10 | -0.040 | -0.40 | 679.22 | 12 | -0.001 | -0.02 | 679.20 | 24 | -0.001 | -0.03 | 679.17 | 10 | -0.040 | -0.40 | 678.77 | | |
| | | 678.83 | -0.25 | -0.040 | 10 | 679.23 | 0.15 | 0.004 | 24 | 679.13 | 0.05 | 0.004 | 12 | 679.08 | -0.40 | -0.040 | 10 | 678.68 | 186+00.00 | 678.68 | 10 | -0.040 | -0.40 | 679.08 | 12 | -0.004 | -0.05 | 679.03 | 24 | -0.004 | -0.10 | 678.93 | 10 | -0.040 | -0.40 | 678.53 | | |
| | | 678.80 | -0.14 | -0.040 | 10 | 679.20 | 0.26 | 0.007 | 24 | 679.03 | 0.09 | 0.007 | 12 | 678.94 | -0.40 | -0.040 | 10 | 678.54 | 186+25.00 | 678.54 | 10 | -0.040 | -0.40 | 678.94 | 12 | -0.007 | -0.09 | 678.86 | 24 | -0.007 | -0.17 | 678.68 | 10 | -0.040 | -0.40 | 678.28 | | |
| | | 678.77 | -0.03 | -0.040 | 10 | 679.17 | 0.37 | 0.010 | 24 | 678.93 | 0.12 | 0.010 | 12 | 678.81 | -0.40 | -0.040 | 10 | 678.41 | 186+50.00 | 678.41 | 10 | -0.040 | -0.40 | 678.81 | 12 | -0.010 | -0.12 | 678.68 | 24 | -0.010 | -0.25 | 678.44 | 10 | -0.040 | -0.40 | 678.04 | | |
| | | 678.74 | 0.08 | -0.040 | 10 | 679.14 | 0.48 | 0.013 | 24 | 678.83 | 0.16 | 0.013 | 12 | 678.67 | -0.40 | -0.040 | 10 | 678.27 | 186+75.00 | 678.27 | 10 | -0.040 | -0.40 | 678.67 | 12 | -0.013 | -0.16 | 678.51 | 24 | -0.013 | -0.32 | 678.19 | 10 | -0.040 | -0.40 | 677.79 | | |
| | | 678.71 | 0.18 | -0.040 | 10 | 679.11 | 0.58 | 0.016 | 24 | 678.72 | 0.19 | 0.016 | 12 | 678.53 | -0.40 | -0.040 | 10 | 678.13 | 187+00.00 | 678.13 | 10 | -0.040 | -0.40 | 678.53 | 12 | -0.016 | -0.19 | 678.34 | 24 | -0.016 | -0.39 | 677.95 | 10 | -0.040 | -0.40 | 677.55 | | |
| | | 678.68 | 0.29 | -0.040 | 10 | 679.08 | 0.69 | 0.019 | 24 | 678.62 | 0.23 | 0.019 | 12 | 678.39 | -0.40 | -0.040 | 10 | 677.99 | 187+25.00 | 677.99 | 10 | -0.040 | -0.40 | 678.39 | 12 | -0.019 | -0.23 | 678.16 | 24 | -0.019 | -0.46 | 677.70 | 10 | -0.040 | -0.40 | 677.30 | | |
| | | 678.65 | 0.40 | -0.040 | 10 | 679.05 | 0.80 | 0.022 | 24 | 678.52 | 0.27 | 0.022 | 12 | 678.26 | -0.40 | -0.040 | 10 | 677.86 | 187+50.00 | 677.86 | 10 | -0.040 | -0.40 | 678.26 | 12 | -0.022 | -0.27 | 677.99 | 24 | -0.022 | -0.53 | 677.46 | 10 | -0.040 | -0.40 | 677.06 | | |
| | | 678.61 | 0.50 | -0.040 | 10 | 679.01 | 0.90 | 0.025 | 24 | 678.41 | 0.30 | 0.025 | 12 | 678.11 | -0.40 | -0.040 | 10 | 677.71 | 187+75.00 | 677.71 | 10 | -0.040 | -0.40 | 678.11 | 12 | -0.025 | -0.30 | 677.81 | 24 | -0.025 | -0.60 | 677.21 | 10 | -0.040 | -0.40 | 676.81 | | |
| | | 678.55 | 0.61 | -0.040 | 10 | 678.95 | 1.01 | 0.028 | 24 | 678.28 | 0.34 | 0.028 | 12 | 677.94 | -0.40 | -0.040 | 10 | 677.54 | 188+00.00 | 677.54 | 10 | -0.040 | -0.40 | 677.94 | 12 | -0.028 | -0.34 | 677.61 | 24 | -0.028 | -0.67 | 676.93 | 10 | -0.040 | -0.40 | 676.53 | | |
| | | 678.49 | 0.69 | -0.040 | 10 | 678.89 | 1.09 | 0.030 | 24 | 678.16 | 0.36 | 0.030 | 12 | 677.80 | -0.18 | -0.018 | 10 | 677.62 | 188+19.29 | 677.40 | 10 | -0.040 | -0.40 | 677.80 | 12 | -0.030 | -0.36 | 677.44 | 24 | -0.030 | -0.73 | 676.71 | 10 | -0.018 | -0.18 | 676.53 | | #6 P.C. |

Preliminary Plans - Not for Reference Only

SUPERELEVATION TABLE

DESIGN AGENCY
HNTB

DESIGNER
ANC

REVIEWER
XXX 03/31/22

PROJECT ID
105743

SHEET P.616 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Curve 5 Boundary-1 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:26:14 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE004.dgn

# SUPERELEVATION TABLE - CURVE 6

| REMARKS | P.I. STATION 192+18.47 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 2°00'00" RT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| P.C. | 233 : 1 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS | | | | 678.89 | 0.73 | 0.030 | 24 | 678.16 | 0.36 | 0.030 | 12 | 677.80 | -0.40 | -0.040 | 10 | 677.40 | 188+19.29 | 677.62 | 10 | -0.018 | -0.18 | 677.80 | 12 | -0.030 | -0.36 | 677.44 | 24 | -0.030 | -0.73 | 676.71 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS | | | | 233 : 1 | P.C. |
| | | | | | | 678.87 | 0.75 | 0.031 | 24 | 678.13 | 0.37 | 0.031 | 12 | 677.75 | -0.40 | -0.040 | 10 | 677.35 | 188+25.00 | 677.53 | 10 | HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE | -0.22 | 677.75 | 12 | -0.031 | -0.37 | 677.38 | 24 | -0.031 | -0.75 | 676.64 | | | | | | |
| | | | | | | 678.77 | 0.82 | 0.034 | 24 | 677.95 | 0.41 | 0.034 | 12 | 677.54 | -0.40 | -0.040 | 10 | 677.14 | 188+50.00 | 677.33 | 10 | | -0.21 | 677.54 | 12 | -0.034 | -0.41 | 677.13 | 24 | -0.034 | -0.82 | 676.32 | | | | | | |
| | | | | | | 678.64 | 0.89 | 0.037 | 24 | 677.75 | 0.44 | 0.037 | 12 | 677.31 | -0.40 | -0.040 | 10 | 676.91 | 188+75.00 | 677.10 | 10 | | -0.21 | 677.31 | 12 | -0.037 | -0.44 | 676.86 | 24 | -0.037 | -0.89 | 675.97 | | | | | | |
| | | | | | | 678.49 | 0.96 | 0.040 | 24 | 677.53 | 0.48 | 0.040 | 12 | 677.05 | -0.40 | -0.040 | 10 | 676.65 | 189+00.00 | 676.85 | 10 | | -0.20 | 677.05 | 12 | -0.040 | -0.48 | 676.57 | 24 | -0.040 | -0.96 | 675.61 | | | | | | |
| | | | | | | 678.31 | 1.03 | 0.043 | 24 | 677.28 | 0.51 | 0.043 | 12 | 676.77 | -0.43 | -0.043 | 10 | 676.34 | 189+25.00 | 676.58 | 10 | | -0.19 | 676.77 | 12 | -0.043 | -0.51 | 676.25 | 24 | -0.043 | -1.03 | 675.22 | | | | | | |
| | | | | | | 678.11 | 1.10 | 0.046 | 24 | 677.01 | 0.55 | 0.046 | 12 | 676.46 | -0.46 | -0.046 | 10 | 676.00 | 189+50.00 | 676.28 | 10 | | -0.19 | 676.46 | 12 | -0.046 | -0.55 | 675.91 | 24 | -0.046 | -1.10 | 674.81 | | | | | | |
| | | | | | | 677.90 | 1.17 | 0.049 | 24 | 676.72 | 0.59 | 0.049 | 12 | 676.14 | -0.49 | -0.049 | 10 | 675.65 | 189+75.00 | 675.96 | 10 | | -0.18 | 676.14 | 12 | -0.049 | -0.59 | 675.55 | 24 | -0.049 | -1.17 | 674.38 | | | | | | |
| F.S. | | | | | | 677.80 | 1.20 | 0.050 | 24 | 676.60 | 0.60 | 0.050 | 12 | 676.00 | -0.50 | -0.050 | 10 | 675.50 | 189+85.00 | 675.83 | 10 | | -0.17 | 676.00 | 12 | -0.050 | -0.60 | 675.40 | 24 | -0.050 | -1.20 | 674.20 | | | | | | F.S. |
| | | | | | | 677.59 | 1.80 | 0.050 | 36 | - | - | - | - | 675.79 | -0.50 | -0.050 | 10 | 675.29 | 190+00.00 | 675.62 | 10 | | -0.17 | 675.79 | - | - | - | - | 36 | -0.050 | -1.80 | 673.99 | | | | | | |
| | | | | | | 677.22 | 1.80 | 0.050 | 36 | - | - | - | - | 675.42 | -0.50 | -0.050 | 10 | 674.92 | 190+25.00 | 675.24 | 10 | | -0.17 | 675.42 | - | - | - | - | 36 | -0.050 | -1.80 | 673.62 | | | | | | |
| | | | | | | 676.83 | 1.80 | 0.050 | 36 | - | - | - | - | 675.03 | -0.50 | -0.050 | 10 | 674.53 | 190+50.00 | 674.85 | 10 | | -0.17 | 675.03 | - | - | - | - | 36 | -0.050 | -1.80 | 673.23 | | | | | | |
| | | | | | | 676.41 | 1.80 | 0.050 | 36 | - | - | - | - | 674.61 | -0.50 | -0.050 | 10 | 674.11 | 190+75.00 | 674.43 | 10 | | -0.17 | 674.61 | - | - | - | - | 36 | -0.050 | -1.80 | 672.81 | | | | | | |
| | | | | | | 675.97 | 1.80 | 0.050 | 36 | - | - | - | - | 674.17 | -0.50 | -0.050 | 10 | 673.67 | 191+00.00 | 673.99 | 10 | | -0.17 | 674.17 | - | - | - | - | 36 | -0.050 | -1.80 | 672.37 | | | | | | |
| | | | | | | 675.51 | 1.80 | 0.050 | 36 | - | - | - | - | 673.71 | -0.50 | -0.050 | 10 | 673.21 | 191+25.00 | 673.53 | 10 | | -0.17 | 673.71 | - | - | - | - | 36 | -0.050 | -1.80 | 671.91 | 10 | -0.050 | -0.50 | 671.41 | | |
| | | | | | | 675.02 | 1.80 | 0.050 | 36 | - | - | - | - | 673.22 | -0.50 | -0.050 | 10 | 672.72 | 191+50.00 | 673.05 | 10 | | -0.17 | 673.22 | - | - | - | - | 36 | -0.050 | -1.80 | 671.42 | 10 | -0.050 | -0.50 | 670.92 | | |
| | | | | | | 674.51 | 1.80 | 0.050 | 36 | - | - | - | - | 672.71 | -0.50 | -0.050 | 10 | 672.21 | 191+75.00 | 672.54 | 10 | | -0.17 | 672.71 | - | - | - | - | 36 | -0.050 | -1.80 | 670.91 | 10 | -0.050 | -0.50 | 670.41 | | |
| | | | | | | 673.98 | 1.80 | 0.050 | 36 | - | - | - | - | 672.18 | -0.50 | -0.050 | 10 | 671.68 | 192+00.00 | 672.01 | 10 | | -0.17 | 672.18 | - | - | - | - | 36 | -0.050 | -1.80 | 670.38 | 10 | -0.050 | -0.50 | 669.88 | | |
| | | 673.26 | -0.17 | HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE | 10 | 673.44 | 1.80 | 0.050 | 36 | - | - | - | - | 671.64 | -0.50 | -0.050 | 10 | 671.14 | 192+25.00 | 671.46 | 10 | | -0.17 | 671.64 | - | - | - | - | 36 | -0.050 | -1.80 | 669.84 | 10 | -0.050 | -0.50 | 669.34 | | |
| | | 672.72 | -0.17 | | 10 | 672.89 | 1.80 | 0.050 | 36 | - | - | - | - | 671.09 | -0.50 | -0.050 | 10 | 670.59 | 192+50.00 | 670.92 | 10 | | -0.17 | 671.09 | - | - | - | - | 36 | -0.050 | -1.80 | 669.29 | 10 | -0.050 | -0.50 | 668.79 | | |
| | | 672.17 | -0.17 | | 10 | 672.35 | 1.80 | 0.050 | 36 | - | - | - | - | 670.55 | -0.50 | -0.050 | 10 | 670.05 | 192+75.00 | 670.37 | 10 | | -0.17 | 670.55 | - | - | - | - | 36 | -0.050 | -1.80 | 668.75 | 10 | -0.050 | -0.50 | 668.25 | | |
| | | 671.63 | -0.17 | | 10 | 671.80 | 1.80 | 0.050 | 36 | - | - | - | - | 670.00 | -0.50 | -0.050 | 10 | 669.50 | 193+00.00 | 669.83 | 10 | | -0.17 | 670.00 | - | - | - | - | 36 | -0.050 | -1.80 | 668.20 | 10 | -0.050 | -0.50 | 667.70 | | |
| | | 671.08 | -0.17 | | 10 | 671.25 | 1.80 | 0.050 | 36 | - | - | - | - | 669.45 | -0.50 | -0.050 | 10 | 668.95 | 193+25.00 | 669.28 | 10 | | -0.17 | 669.45 | - | - | - | - | 36 | -0.050 | -1.80 | 667.65 | 10 | -0.050 | -0.50 | 667.15 | | |
| | | 670.53 | -0.17 | | 10 | 670.71 | 1.80 | 0.050 | 36 | - | - | - | - | 668.91 | -0.50 | -0.050 | 10 | 668.41 | 193+50.00 | 668.73 | 10 | | -0.17 | 668.91 | - | - | - | - | 36 | -0.050 | -1.80 | 667.11 | 10 | -0.050 | -0.50 | 666.61 | | |
| | | 669.99 | -0.17 | | 10 | 670.16 | 1.80 | 0.050 | 36 | - | - | - | - | 668.36 | -0.50 | -0.050 | 10 | 667.86 | 193+75.00 | 668.19 | 10 | | -0.17 | 668.36 | - | - | - | - | 36 | -0.050 | -1.80 | 666.56 | 10 | -0.050 | -0.50 | 666.06 | | |
| | | 669.44 | -0.17 | | 10 | 669.62 | 1.80 | 0.050 | 36 | - | - | - | - | 667.82 | -0.50 | -0.050 | 10 | 667.32 | 194+00.00 | 667.64 | 10 | | -0.17 | 667.82 | - | - | - | - | 36 | -0.050 | -1.80 | 666.02 | 10 | -0.050 | -0.50 | 665.52 | | |
| | | 668.89 | -0.17 | | 10 | 669.07 | 1.80 | 0.050 | 36 | - | - | - | - | 667.27 | -0.50 | -0.050 | 10 | 666.77 | 194+25.00 | 667.09 | 10 | | -0.17 | 667.27 | - | - | - | - | 36 | -0.050 | -1.80 | 665.47 | 10 | -0.050 | -0.50 | 664.97 | | |
| | | 668.35 | -0.17 | | 10 | 668.52 | 1.80 | 0.050 | 36 | - | - | - | - | 666.72 | -0.50 | -0.050 | 10 | 666.22 | 194+50.00 | 666.55 | 10 | | -0.17 | 666.72 | - | - | - | - | 36 | -0.050 | -1.80 | 664.92 | 10 | -0.050 | -0.50 | 664.42 | | |
| F.S. | | 667.92 | -0.17 | | 10 | 668.09 | 1.20 | 0.050 | 24 | 666.89 | 0.60 | 0.050 | 12 | 666.29 | -0.50 | -0.050 | 10 | 665.79 | 194+70.00 | 666.12 | 10 | | -0.17 | 666.29 | 12 | -0.050 | -0.60 | 665.69 | 24 | -0.050 | -1.20 | 664.49 | 10 | -0.050 | -0.50 | 663.99 | | F.S. |
| | | 667.79 | -0.18 | | 10 | 667.97 | 1.19 | 0.049 | 24 | 666.78 | 0.59 | 0.049 | 12 | 666.19 | -0.49 | -0.049 | 10 | 665.70 | 194+75.00 | 666.01 | 10 | | -0.18 | 666.19 | 12 | -0.049 | -0.59 | 665.60 | 24 | -0.049 | -1.19 | 664.41 | 10 | -0.049 | -0.49 | 663.92 | | |
| | | 667.17 | -0.18 | | 10 | 667.35 | 1.12 | 0.046 | 24 | 666.24 | 0.56 | 0.046 | 12 | 665.68 | -0.46 | -0.046 | 10 | 665.22 | 195+00.00 | 665.50 | 10 | | -0.18 | 665.68 | 12 | -0.046 | -0.56 | 665.12 | 24 | -0.046 | -1.12 | 664.01 | 10 | -0.046 | -0.46 | 663.55 | | |
| | | 666.57 | -0.19 | | 10 | 666.76 | 1.05 | 0.044 | 24 | 665.72 | 0.52 | 0.044 | 12 | 665.19 | -0.44 | -0.044 | 10 | 664.75 | 195+25.00 | 665.00 | 10 | | -0.19 | 665.19 | 12 | -0.044 | -0.52 | 664.67 | 24 | -0.044 | -1.05 | 663.62 | 10 | -0.044 | -0.44 | 663.18 | | |
| | | 666.00 | -0.20 | | 10 | 666.19 | 0.98 | 0.041 | 24 | 665.22 | 0.49 | 0.041 | 12 | 664.73 | -0.41 | -0.041 | 10 | 664.32 | 195+50.00 | 664.53 | 10 | | -0.20 | 664.73 | 12 | -0.041 | -0.49 | 664.24 | 24 | -0.041 | -0.98 | 663.27 | 10 | -0.041 | -0.41 | 662.86 | | |
| | | 665.44 | -0.21 | | 10 | 665.65 | 0.90 | 0.038 | 24 | 664.75 | 0.45 | 0.038 | 12 | 664.29 | -0.40 | -0.040 | 10 | 663.89 | 195+75.00 | 664.09 | 10 | | -0.21 | 664.29 | 12 | -0.038 | -0.45 | 663.84 | 24 | -0.038 | -0.90 | 662.94 | 10 | -0.040 | -0.40 | 662.54 | | |
| | | 664.92 | -0.21 | | 10 | 665.13 | 0.83 | 0.035 | 24 | 664.30 | 0.42 | 0.035 | 12 | 663.88 | -0.40 | -0.040 | 10 | 663.48 | 196+00.00 | 663.67 | 10 | | -0.21 | 663.88 | 12 | -0.035 | -0.42 | 663.46 | 24 | -0.035 | -0.83 | 662.63 | 10 | -0.040 | -0.40 | 662.23 | | |
| P.T. | | 664.66 | -0.22 | | 10 | 664.88 | 0.80 | 0.033 | 24 | 664.08 | 0.40 | 0.033 | 12 | 663.68 | -0.40 | -0.040 | 10 | 663.28 | 196+12.54 | 663.46 | 10 | | -0.22 | 663.68 | 12 | -0.033 | -0.40 | 663.28 | 24 | -0.033 | -0.80 | 662.48 | 10 | -0.040 | -0.40 | 662.08 | | P.T. |
| | | 664.41 | -0.22 | | 10 | 664.63 | 0.76 | 0.032 | 24 | 663.87 | 0.38 | 0.032 | 12 | 663.49 | -0.40 | -0.040 | 10 | 663.09 | 196+25.00 | 663.27 | 10 | | -0.22 | 663.49 | 12 | -0.032 | -0.38 | 663.11 | 24 | -0.032 | -0.76 | 662.34 | 10 | -0.037 | -0.37 | 661.98 | | |
| | | 663.76 | -0.40 | -0.040 | 10 | 664.16 | 0.69 | 0.029 | 24 | 663.47 | 0.35 | 0.029 | 12 | 663.12 | -0.40 | -0.040 | 10 | 662.72 | 196+50.00 | 662.72 | 10 | -0.040 | -0.40 | 663.12 | 12 | -0.029 | -0.35 | 662.78 | 24 | -0.029 | -0.69 | 662.09 | 10 | -0.030 | -0.30 | 661.79 | | |
| | | 663.31 | -0.40 | -0.040 | 10 | 663.71 | 0.62 | 0.026 | 24 | 663.09 | 0.31 | 0.026 | 12 | 662.78 | -0.40 | -0.040 | 10 | 662.38 | 196+75.00 | 662.38 | 10 | -0.040 | -0.40 | 662.78 | 12 | -0.026 | -0.31 | 662.47 | 24 | -0.026 | -0.62 | 661.85 | 10 | -0.023 | -0.23 | 661.62 | | |
| | | 662.89 | -0.40 | -0.040 | 10 | 663.29 | 0.55 | 0.023 | 24 | 662.74 | 0.27 | 0.023 | 12 | 662.46 | -0.40 | -0.040 | 10 | 662.06 | 197+00.00 | 662.06 | 10 | -0.040 | -0.40 | 662.46 | 12 | -0.023 | -0.27 | 662.19 | 24 | -0.023 | -0.55 | 661.64 | 10 | -0.016 | -0.16 | 661.48 | | |
| | | 662.49 | -0.40 | -0.040 | 10 | 662.89 | 0.48 | 0.020 | 24 | 662.41 | 0.24 | 0.020 | 12 | 662.17 | -0.40 | -0.040 | 10 | 661.77 | 197+25.00 | 661.77 | 10 | -0.040 | -0.40 | 662.17 | 12 | -0.020 | -0.24 | 661.93 | 24 | -0.020 | -0.48 | 661.45 | | | | | | |
| | | 662.11 | -0.40 | -0.040 | 10 | 662.51 | 0.41 | 0.017 | 24 | 662.10 | 0.20 | 0.017 | 12 | 661.90 | -0.40 | -0.040 | 10 | 661.50 | 197+50.00 | 661.50 | 10 | -0.040 | -0.40 | 661.90 | 12 | -0.017 | -0.20 | 661.70 | 24 | -0.017 | -0.41 | 661.29 | | | | | | |
| R.C. | | 662.00 | -0.40 | -0.040 | 10 | 662.40 | 0.38 | 0.016 | 24 | 662.01 | 0.19 | 0.016 | 12 | 661.82 | -0.40 | -0.040 | 10 | 661.42 | 197+58.00 | 661.42 | 10 | -0.040 | -0.40 | 661.82 | 12 | -0.016 | -0.19 | 661.63 | 24 | -0.016 | -0.38 | 661.24 | | | | | | R.C. |
| | | 661.76 | -0.40 | -0.040 | 10 | 662.16 | 0.31 | 0.013 | 24 | 661.85 | 0.19 | 0.016 | 12 | 661.66 | -0.40 | -0.040 | 10 | 661.26 | 197+75.00 | 661.26 | 10 | -0.040 | -0.40 | 661.66 | 12 | -0.010 | -0.12 | 661.54 | 24 | -0.016 | -0.38 | 661.15 | | | | | | |
| | | 661.43 | -0.40 | -0.040 | 10 | 661.83 | 0.20 | 0.009 | 24 | 661.63 | 0.19 | 0.016 | 12 | 661.44 | -0.40 | -0.040 | 10 | 661.04 | 198+00.00 | 661.04 | 10 | -0.040 | -0.40 | 661.44 | 12 | -0.001 | -0.01 | 661.42 | 24 | -0.016 | -0.38 | 661.04 | | | | | | |
| | | 661.39 | -0.40 | -0.040 | 10 | 661.79 | 0.19 | 0.008 | 24 | 661.60 | 0.19 | 0.016 | 12 | 661.41 | -0.40 | -0.040 | 10 | 661.01 | 198+03.00 | 661.01 | 10 | -0.040 | -0.40 | 661.41 | 12 | 0.000 | 0.00 | 661.41 | 24 | -0.016 | -0.38 | 661.03 | AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS | | | | | 1/2 FLAT |
| | | 661.13 | -0.40 | -0.040 | 10 | 661.53 | 0.10 | 0.004 | 24 | 661.43 | 0.19 | 0.016 | 12 | 661.24 | -0.40 | -0.040 | 10 | 660.84 | 198+25.00 | 660.84 | 10 | -0.040 | -0.40 | 661.24 | 12 | 0.008 | 0.09 | 661.33 | 24 | -0.016 | -0.38 | 660.95 | | | | | | |
| 1/2 FLAT | | 660.87 | -0.40 | -0.040 | 10 | 661.27 | 0.00 | 0.000 | 24 | 661.27 | 0.19 | 0.016 | 12 | 661.08 | -0.40 | -0.040 | 10 | 660.68 | 198+48.00 | 660.68 | 10 | -0.040 | -0.40 | 661.08 | 12 | 0.016 | 0.19 | 661.27 | 24 | -0.016 | -0.38 | 660.89 | | | | | | |
| | | 660.85 | -0.40 | -0.040 | 10 | 661.25 | -0.01 | 0.000 | 24 | 661.26 | 0.19 | 0.016 | 12 | 661.06 | -0.40 | -0.040 | 10 | 660.66 | 198+50.00 | 660.66 | 10 | -0.040 | -0.40 | 661.06 | 12 | 0.016 | 0.19 | 661.26 | 24 | -0.016 | -0.38 | 660.87 | | | | | | |
| | | 660.59 | -0.40 | -0.040 | 10 | 660.99 | -0.12 | -0.005 | 24 | 661.11 | 0.19 | 0.016 | 12 | 660.92 | -0.40 | -0.040 | 10 | 660.52 | 198+75.00 | 660.52 | 10 | -0.040 | -0.40 | 660.92 | 12 | 0.016 | 0.19 | 661.11 | 24 | -0.016 | -0.38 | 660.72 | | | | | | |
| | | 660.36 | -0.40 | -0.040 | 10 | 660.76 | -0.22 | -0.009 | 24 | 660.98 | 0.19 | 0.016 | 12 | 660.79 | -0.40 | -0.040 | 10 | 660.39 | 199+00.00 | 660.39 | 10 | -0.040 | -0.40 | 660.79 | 12 | 0.016 | 0.19 | 660.98 | 24 | -0.016 | -0.38 | 660.60 | | | | | | |
| | | 660.15 | -0.40 | -0.040 | 10 | 660.55 | -0.33 | -0.014 | 24 | 660.88 | 0.19 | 0.016 | 12 | 660.69 | -0.40 | -0.040 | 10 | 660.29 | 199+25.00 | 660.29 | 10 | -0.040 | -0.40 | 660.69 | 12 | 0.016 | 0.19 | 660.88 | 24 | -0.016 | -0.38 | 660.50 | | | | | | |
| N.C. | | 660.06 | -0.40 | -0.040 | 10 | 660.46 | -0.38 | -0.016 | 24 | 660.84 | 0.19 | 0.016 | 12 | 660.65 | -0.40 | -0.040 | 10 | 660.25 | 199+38.00 | 660.25 | 10 | -0.040 | -0.40 | 660.65 | 12 | 0.016 | 0.19 | 660.84 | 24 | -0.016 | -0.38 | 660.46 | | | | | | N.C. |

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans
Not for Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 6

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.617 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-6 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:26:52 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

# SUPERELEVATION TABLE - CURVE 7

| REMARKS | P.I. STATION 218+10.24 LEFT SIDE (SOUTHBOUND) | | | | | | | | | | | | | | | | | | CENTERLINE CONTROL | 1°00'00" LT RIGHT SIDE (NORTHBOUND) | | | | | | | | | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRANSITION RATE | EOS ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOP ELVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | CROWN ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | PGL ELEVATION | ELEVATION CORRECTION | CROSS SLOPE | WIDTH | EOS ELEVATION | STATION | EOS ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | PGL ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | CROWN ELEVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOP ELVATION | WIDTH | CROSS SLOPE | ELEVATION CORRECTION | EOS ELEVATION | TRANSITION RATE | |
| N.C. | | 657.03 | -0.40 | -0.040 | 10 | 657.43 | -0.38 | -0.016 | 24 | 657.81 | 0.19 | 0.016 | 12 | 657.62 | -0.40 | -0.040 | 10 | 657.22 | 211+38.00 | 657.22 | 10 | -0.040 | -0.40 | 657.62 | 12 | 0.016 | 0.19 | 657.81 | 24 | -0.016 | -0.38 | 657.43 | 10 | -0.040 | -0.40 | 657.03 | | N.C. |
| | | 656.83 | -0.40 | -0.040 | 10 | 657.23 | -0.38 | -0.016 | 24 | 657.61 | 0.17 | 0.015 | 12 | 657.44 | -0.40 | -0.040 | 10 | 657.04 | 211+50.00 | 656.81 | 10 | -0.040 | -0.40 | 657.21 | 12 | 0.016 | 0.19 | 657.40 | 24 | -0.014 | -0.33 | 657.07 | 10 | -0.040 | -0.40 | 656.67 | | |
| | | 656.32 | -0.40 | -0.040 | 10 | 656.72 | -0.38 | -0.016 | 24 | 657.11 | 0.14 | 0.011 | 12 | 656.97 | -0.40 | -0.040 | 10 | 656.57 | 211+75.00 | 656.36 | 10 | -0.040 | -0.40 | 656.76 | 12 | 0.016 | 0.19 | 656.95 | 24 | -0.009 | -0.22 | 656.73 | 10 | -0.040 | -0.40 | 656.33 | | |
| | | 655.80 | -0.40 | -0.040 | 10 | 656.20 | -0.38 | -0.016 | 24 | 656.58 | 0.10 | 0.008 | 12 | 656.49 | -0.40 | -0.040 | 10 | 656.09 | 212+00.00 | 655.89 | 10 | -0.040 | -0.40 | 656.29 | 12 | 0.016 | 0.19 | 656.48 | 24 | -0.004 | -0.11 | 656.37 | 10 | -0.040 | -0.40 | 655.97 | | |
| | | 655.20 | -0.40 | -0.040 | 10 | 655.60 | -0.38 | -0.016 | 24 | 655.99 | 0.06 | 0.005 | 12 | 655.92 | -0.40 | -0.040 | 10 | 655.52 | 212+24.00 | 655.52 | 10 | -0.040 | -0.40 | 655.92 | 12 | 0.016 | 0.19 | 656.12 | 24 | 0.000 | 0.00 | 656.12 | 10 | -0.040 | -0.40 | 655.72 | | 1/2 FLAT |
| | | 655.26 | -0.40 | -0.040 | 10 | 655.66 | -0.38 | -0.016 | 24 | 656.04 | 0.06 | 0.005 | 12 | 655.98 | -0.40 | -0.040 | 10 | 655.58 | 212+25.00 | 655.40 | 10 | -0.040 | -0.40 | 655.80 | 12 | 0.016 | 0.19 | 655.99 | 24 | 0.000 | 0.00 | 656.00 | 10 | -0.040 | -0.40 | 655.60 | | |
| | | 654.69 | -0.40 | -0.040 | 10 | 655.09 | -0.38 | -0.016 | 24 | 655.48 | 0.03 | 0.002 | 12 | 655.45 | -0.40 | -0.040 | 10 | 655.05 | 212+50.00 | 654.90 | 10 | -0.040 | -0.40 | 655.30 | 12 | 0.016 | 0.19 | 655.50 | 24 | 0.005 | 0.12 | 655.61 | 10 | -0.040 | -0.40 | 655.21 | | |
| 1/2 FLAT | | 654.22 | -0.40 | -0.040 | 10 | 654.62 | -0.38 | -0.016 | 24 | 655.01 | 0.00 | 0.000 | 12 | 655.01 | -0.40 | -0.040 | 10 | 654.61 | 212+67.00 | 654.61 | 10 | -0.040 | -0.40 | 655.01 | 12 | 0.016 | 0.19 | 655.20 | 24 | 0.008 | 0.19 | 655.39 | 10 | -0.040 | -0.40 | 654.99 | | |
| | | 654.09 | -0.40 | -0.040 | 10 | 654.49 | -0.38 | -0.016 | 24 | 654.87 | -0.04 | -0.003 | 12 | 654.91 | -0.40 | -0.040 | 10 | 654.51 | 212+75.00 | 654.41 | 10 | -0.040 | -0.40 | 654.81 | 12 | 0.016 | 0.19 | 655.00 | 24 | 0.009 | 0.23 | 655.23 | 10 | -0.040 | -0.40 | 654.83 | | |
| | | 653.41 | -0.40 | -0.040 | 10 | 653.81 | -0.38 | -0.016 | 24 | 654.19 | -0.18 | -0.015 | 12 | 654.37 | -0.40 | -0.040 | 10 | 653.97 | 213+00.00 | 653.91 | 10 | -0.040 | -0.40 | 654.31 | 12 | 0.016 | 0.19 | 654.50 | 24 | 0.014 | 0.34 | 654.84 | 10 | -0.040 | -0.40 | 654.44 | | |
| R.C. | | 653.12 | -0.40 | -0.040 | 10 | 653.52 | -0.38 | -0.016 | 24 | 653.90 | -0.19 | -0.016 | 12 | 654.09 | -0.40 | -0.040 | 10 | 653.69 | 213+10.00 | 653.69 | 10 | -0.040 | -0.40 | 654.09 | 12 | 0.016 | 0.19 | 654.28 | 24 | 0.016 | 0.38 | 654.67 | 10 | -0.040 | -0.40 | 654.27 | | R.C. |
| | | 652.85 | -0.40 | -0.040 | 10 | 653.25 | -0.42 | -0.018 | 24 | 653.67 | -0.21 | -0.018 | 12 | 653.89 | -0.40 | -0.040 | 10 | 653.49 | 213+25.00 | 653.42 | 10 | -0.040 | -0.40 | 653.82 | 12 | 0.018 | 0.21 | 654.03 | 24 | 0.018 | 0.42 | 654.45 | 10 | -0.040 | -0.40 | 654.05 | | |
| P.C. | | 652.67 | -0.40 | -0.040 | 10 | 653.07 | -0.43 | -0.018 | 24 | 653.50 | -0.22 | -0.018 | 12 | 653.71 | -0.40 | -0.040 | 10 | 653.31 | 213+28.63 | 653.31 | 10 | -0.040 | -0.40 | 653.71 | 12 | 0.018 | 0.22 | 653.93 | 24 | 0.018 | 0.43 | 654.36 | 10 | -0.040 | -0.40 | 653.96 | | P.C. |
| | | 652.32 | -0.40 | -0.040 | 10 | 652.72 | -0.49 | -0.020 | 24 | 653.21 | -0.24 | -0.020 | 12 | 653.45 | -0.40 | -0.040 | 10 | 653.05 | 213+50.00 | 652.98 | 10 | -0.040 | -0.40 | 653.38 | 12 | 0.020 | 0.24 | 653.62 | 24 | 0.020 | 0.49 | 654.11 | 10 | -0.040 | -0.40 | 653.71 | | |
| | | 651.84 | -0.40 | -0.040 | 10 | 652.24 | -0.55 | -0.023 | 24 | 652.79 | -0.28 | -0.023 | 12 | 653.06 | -0.40 | -0.040 | 10 | 652.66 | 213+75.00 | 652.60 | 10 | -0.040 | -0.40 | 653.00 | 12 | 0.023 | 0.28 | 653.27 | 24 | 0.023 | 0.55 | 653.82 | 10 | -0.040 | -0.40 | 653.42 | | |
| | | 651.40 | -0.40 | -0.040 | 10 | 651.80 | -0.61 | -0.026 | 24 | 652.42 | -0.31 | -0.026 | 12 | 652.73 | -0.40 | -0.040 | 10 | 652.33 | 214+00.00 | 652.27 | 10 | -0.040 | -0.40 | 652.67 | 12 | 0.026 | 0.31 | 652.97 | 24 | 0.026 | 0.61 | 653.59 | 10 | -0.040 | -0.40 | 653.19 | | |
| F.S. | | 652.07 | -0.40 | -0.040 | 10 | 652.47 | -0.65 | -0.027 | 24 | 653.12 | -0.32 | -0.027 | 12 | 653.45 | -0.40 | -0.040 | 10 | 653.05 | 214+13.00 | 652.28 | 10 | -0.040 | -0.40 | 652.68 | 12 | 0.027 | 0.32 | 653.01 | 24 | 0.027 | 0.65 | 653.66 | 10 | -0.040 | -0.40 | 653.26 | | F.S. |
| | | 651.07 | -0.40 | -0.040 | 10 | 651.47 | -0.97 | -0.027 | 36 | - | - | - | - | 652.44 | -0.40 | -0.040 | 10 | 652.04 | 214+25.00 | 651.99 | 10 | -0.040 | -0.40 | 652.39 | - | - | - | - | 36 | 0.027 | 0.97 | 653.36 | 10 | -0.040 | -0.40 | 652.96 | | |
| | | 650.84 | -0.40 | -0.040 | 10 | 651.24 | -0.97 | -0.027 | 36 | - | - | - | - | 652.21 | -0.40 | -0.040 | 10 | 651.81 | 214+50.00 | 651.77 | 10 | -0.040 | -0.40 | 652.17 | - | - | - | - | 36 | 0.027 | 0.97 | 653.14 | 10 | -0.040 | -0.40 | 652.74 | | |
| | | 650.65 | -0.40 | -0.040 | 10 | 651.05 | -0.97 | -0.027 | 36 | - | - | - | - | 652.03 | -0.40 | -0.040 | 10 | 651.63 | 214+75.00 | 651.60 | 10 | -0.040 | -0.40 | 652.00 | - | - | - | - | 36 | 0.027 | 0.97 | 652.97 | 10 | -0.040 | -0.40 | 652.57 | | |
| | | 650.52 | -0.40 | -0.040 | 10 | 650.92 | -0.97 | -0.027 | 36 | - | - | - | - | 651.90 | -0.40 | -0.040 | 10 | 651.50 | 215+00.00 | 651.49 | 10 | -0.040 | -0.40 | 651.89 | - | - | - | - | 36 | 0.027 | 0.97 | 652.86 | 10 | -0.040 | -0.40 | 652.46 | | |
| | | 650.44 | -0.40 | -0.040 | 10 | 650.84 | -0.97 | -0.027 | 36 | - | - | - | - | 651.81 | -0.40 | -0.040 | 10 | 651.41 | 215+25.00 | 651.43 | 10 | -0.040 | -0.40 | 651.83 | - | - | - | - | 36 | 0.027 | 0.97 | 652.80 | 10 | -0.040 | -0.40 | 652.40 | | |
| | | 650.41 | -0.40 | -0.040 | 10 | 650.81 | -0.97 | -0.027 | 36 | - | - | - | - | 651.78 | -0.40 | -0.040 | 10 | 651.38 | 215+50.00 | 651.43 | 10 | -0.040 | -0.40 | 651.83 | - | - | - | - | 36 | 0.027 | 0.97 | 652.80 | 10 | -0.040 | -0.40 | 652.40 | | |
| | | 650.43 | -0.40 | -0.040 | 10 | 650.83 | -0.97 | -0.027 | 36 | - | - | - | - | 651.81 | -0.40 | -0.040 | 10 | 651.41 | 215+75.00 | 651.48 | 10 | -0.040 | -0.40 | 651.88 | - | - | - | - | 36 | 0.027 | 0.97 | 652.85 | 10 | -0.040 | -0.40 | 652.45 | | |
| | | 650.51 | -0.40 | -0.040 | 10 | 650.91 | -0.97 | -0.027 | 36 | - | - | - | - | 651.88 | -0.40 | -0.040 | 10 | 651.48 | 216+00.00 | 651.58 | 10 | -0.040 | -0.40 | 651.98 | - | - | - | - | 36 | 0.027 | 0.97 | 652.95 | 10 | -0.040 | -0.40 | 652.55 | | |
| | | 650.63 | -0.40 | -0.040 | 10 | 651.03 | -0.97 | -0.027 | 36 | - | - | - | - | 652.00 | -0.40 | -0.040 | 10 | 651.60 | 216+25.00 | 651.74 | 10 | -0.040 | -0.40 | 652.14 | - | - | - | - | 36 | 0.027 | 0.97 | 653.11 | 10 | -0.040 | -0.40 | 652.71 | | |
| | | 650.80 | -0.40 | -0.040 | 10 | 651.20 | -0.97 | -0.027 | 36 | - | - | - | - | 652.18 | -0.40 | -0.040 | 10 | 651.78 | 216+50.00 | 651.95 | 10 | -0.040 | -0.40 | 652.35 | - | - | - | - | 36 | 0.027 | 0.97 | 653.33 | 10 | -0.040 | -0.40 | 652.93 | | |
| | | 651.03 | -0.40 | -0.040 | 10 | 651.43 | -0.97 | -0.027 | 36 | - | - | - | - | 652.40 | -0.40 | -0.040 | 10 | 652.00 | 216+75.00 | 652.22 | 10 | -0.040 | -0.40 | 652.62 | - | - | - | - | 36 | 0.027 | 0.97 | 653.59 | 10 | -0.040 | -0.40 | 653.19 | | |
| | | 651.30 | -0.40 | -0.040 | 10 | 651.70 | -0.97 | -0.027 | 36 | - | - | - | - | 652.68 | -0.40 | -0.040 | 10 | 652.28 | 217+00.00 | 652.54 | 10 | -0.040 | -0.40 | 652.94 | - | - | - | - | 36 | 0.027 | 0.97 | 653.92 | 10 | -0.040 | -0.40 | 653.52 | | |
| | | 651.63 | -0.40 | -0.040 | 10 | 652.03 | -0.97 | -0.027 | 36 | - | - | - | - | 653.00 | -0.40 | -0.040 | 10 | 652.60 | 217+25.00 | 652.92 | 10 | -0.040 | -0.40 | 653.32 | - | - | - | - | 36 | 0.027 | 0.97 | 654.29 | 10 | -0.040 | -0.40 | 653.89 | | |
| | | 652.01 | -0.40 | -0.040 | 10 | 652.41 | -0.97 | -0.027 | 36 | - | - | - | - | 653.38 | -0.40 | -0.040 | 10 | 652.98 | 217+50.00 | 653.35 | 10 | -0.040 | -0.40 | 653.75 | - | - | - | - | 36 | 0.027 | 0.97 | 654.72 | 10 | -0.040 | -0.40 | 654.32 | | |
| | | 652.44 | -0.40 | -0.040 | 10 | 652.84 | -0.97 | -0.027 | 36 | - | - | - | - | 653.81 | -0.40 | -0.040 | 10 | 653.41 | 217+75.00 | 653.84 | 10 | -0.040 | -0.40 | 654.24 | - | - | - | - | 36 | 0.027 | 0.97 | 655.21 | 10 | -0.040 | -0.40 | 654.81 | | |
| | | 652.92 | -0.40 | -0.040 | 10 | 653.32 | -0.97 | -0.027 | 36 | - | - | - | - | 654.29 | -0.40 | -0.040 | 10 | 653.89 | 218+00.00 | 654.38 | 10 | -0.040 | -0.40 | 654.78 | - | - | - | - | 36 | 0.027 | 0.97 | 655.75 | 10 | -0.040 | -0.40 | 655.35 | | |
| | | 653.45 | -0.40 | -0.040 | 10 | 653.85 | -0.97 | -0.027 | 36 | - | - | - | - | 654.82 | -0.40 | -0.040 | 10 | 654.42 | 218+25.00 | 654.97 | 10 | -0.040 | -0.40 | 655.37 | - | - | - | - | 36 | 0.027 | 0.97 | 656.34 | 10 | -0.040 | -0.40 | 655.94 | | |
| | | 654.03 | -0.40 | -0.040 | 10 | 654.43 | -0.97 | -0.027 | 36 | - | - | - | - | 655.40 | -0.40 | -0.040 | 10 | 655.00 | 218+50.00 | 655.62 | 10 | -0.040 | -0.40 | 656.02 | - | - | - | - | 36 | 0.027 | 0.97 | 656.99 | 10 | -0.040 | -0.40 | 656.59 | | |
| | | 654.66 | -0.40 | -0.040 | 10 | 655.06 | -0.97 | -0.027 | 36 | - | - | - | - | 656.04 | -0.40 | -0.040 | 10 | 655.64 | 218+75.00 | 656.29 | 10 | -0.040 | -0.40 | 656.69 | - | - | - | - | 36 | 0.027 | 0.97 | 657.66 | 10 | -0.040 | -0.40 | 657.26 | | |
| | | 655.35 | -0.40 | -0.040 | 10 | 655.75 | -0.97 | -0.027 | 36 | - | - | - | - | 656.72 | -0.40 | -0.040 | 10 | 656.32 | 219+00.00 | 656.97 | 10 | -0.040 | -0.40 | 657.37 | - | - | - | - | 36 | 0.027 | 0.97 | 658.34 | 10 | -0.040 | -0.40 | 657.94 | | |
| | | 656.08 | -0.40 | -0.040 | 10 | 656.48 | -0.97 | -0.027 | 36 | - | - | - | - | 657.45 | -0.40 | -0.040 | 10 | 657.05 | 219+25.00 | 657.64 | 10 | -0.040 | -0.40 | 658.04 | - | - | - | - | 36 | 0.027 | 0.97 | 659.02 | 10 | -0.040 | -0.40 | 658.62 | | |
| | | 656.84 | -0.40 | -0.040 | 10 | 657.24 | -0.97 | -0.027 | 36 | - | - | - | - | 658.21 | -0.40 | -0.040 | 10 | 657.81 | 219+50.00 | 658.32 | 10 | -0.040 | -0.40 | 658.72 | - | - | - | - | 36 | 0.027 | 0.97 | 659.69 | 10 | -0.040 | -0.40 | 659.29 | | |
| | | 657.60 | -0.40 | -0.040 | 10 | 658.00 | -0.97 | -0.027 | 36 | - | - | - | - | 658.97 | -0.40 | -0.040 | 10 | 658.57 | 219+75.00 | 658.99 | 10 | -0.040 | -0.40 | 659.39 | - | - | - | - | 36 | 0.027 | 0.97 | 660.37 | 10 | -0.040 | -0.40 | 659.97 | | |
| | | 658.36 | -0.40 | -0.040 | 10 | 658.76 | -0.97 | -0.027 | 36 | - | - | - | - | 659.73 | -0.40 | -0.040 | 10 | 659.33 | 220+00.00 | 659.67 | 10 | -0.040 | -0.40 | 660.07 | - | - | - | - | 36 | 0.027 | 0.97 | 661.04 | 10 | -0.040 | -0.40 | 660.64 | | |
| | | 659.12 | -0.40 | -0.040 | 10 | 659.52 | -0.97 | -0.027 | 36 | - | - | - | - | 660.49 | -0.40 | -0.040 | 10 | 660.09 | 220+25.00 | 660.34 | 10 | -0.040 | -0.40 | 660.74 | - | - | - | - | 36 | 0.027 | 0.97 | 661.72 | 10 | -0.040 | -0.40 | 661.32 | | |
| | | 659.88 | -0.40 | -0.040 | 10 | 660.28 | -0.97 | -0.027 | 36 | - | - | - | - | 661.26 | -0.40 | -0.040 | 10 | 660.86 | 220+50.00 | 661.02 | 10 | -0.040 | -0.40 | 661.42 | - | - | - | - | 36 | 0.027 | 0.97 | 662.39 | 10 | -0.040 | -0.40 | 661.99 | | |
| | | 660.64 | -0.40 | -0.040 | 10 | 661.04 | -0.97 | -0.027 | 36 | - | - | - | - | 662.02 | -0.40 | -0.040 | 10 | 661.62 | 220+75.00 | 661.69 | 10 | -0.040 | -0.40 | 662.09 | - | - | - | - | 36 | 0.027 | 0.97 | 663.07 | 10 | -0.040 | -0.40 | 662.67 | | |
| | | 660.91 | -0.40 | -0.040 | 10 | 661.31 | -0.97 | -0.027 | 36 | - | - | - | - | 662.28 | -0.40 | -0.040 | 10 | 661.88 | 220+83.50 | | | | | 662.33 | - | - | - | - | 36 | 0.027 | 0.97 | 663.30 | 10 | -0.040 | -0.40 | 662.90 | | |

N.C. = NORMAL CROWN  R.C. = REVERSE CROWN  P.C. = POINT OF CURVATURE  F.S. = FULL SUPER  H.S. = HIGH SIDE

Preliminary Plans for Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 7

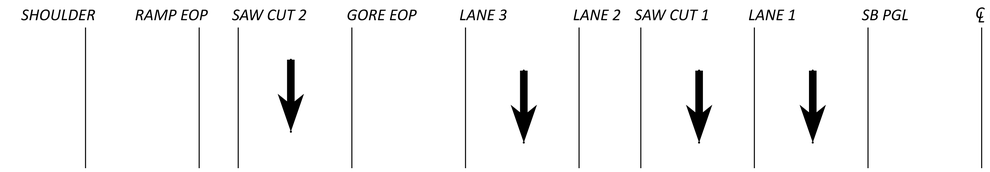
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.618 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet-7 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:26:54 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Engineering\Roadway\Sheets\105743_GE001.dgn

| SHOULDER | | | | RAMP EOP | | | | SAWCUT 2 | | | | GORE EOP | | | | LANE 3 | | | | LANE 2 | | | | SAWCUT 1 | | | | PGL SB | | CL 77 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | ELEVATION DIFFERENCE | EXISTING ELEVATION | PROPOSED ELEVATION | OFFSET | PROPOSED ELEVATION | OFFSET | STATION |
| - | - | - | - | - | - | - | - | 0.61 | 661.35 | 661.96 | -47.50 | - | - | - | - | 0.61 | 661.35 | 661.96 | -47.50 | 0.33 | 661.82 | 662.15 | -35.50 | 0.39 | 661.87 | 662.26 | -28.50 | 662.15 | -11.50 | 204+03.00 |
| - | - | - | - | - | - | - | - | 0.59 | 661.47 | 662.06 | -47.94 | - | - | - | - | 0.58 | 661.49 | 662.07 | -47.50 | 0.38 | 661.88 | 662.26 | -35.50 | 0.37 | 662.00 | 662.37 | -28.50 | 662.26 | -11.50 | 204+25.00 |
| - | - | - | - | - | - | - | - | 0.57 | 661.60 | 662.17 | -48.44 | - | - | - | - | 0.56 | 661.63 | 662.19 | -47.50 | 0.41 | 661.97 | 662.38 | -35.50 | 0.40 | 662.09 | 662.49 | -28.50 | 662.38 | -11.50 | 204+50.00 |
| - | - | - | - | - | - | - | - | 0.53 | 661.72 | 662.25 | -48.94 | - | - | - | - | 0.51 | 661.77 | 662.28 | -47.50 | 0.38 | 662.09 | 662.47 | -35.50 | 0.37 | 662.21 | 662.58 | -28.50 | 662.47 | -11.50 | 204+75.00 |
| - | - | - | - | - | - | - | - | 0.50 | 661.82 | 662.32 | -49.44 | - | - | - | - | 0.47 | 661.88 | 662.35 | -47.50 | 0.37 | 662.17 | 662.54 | -35.50 | 0.33 | 662.33 | 662.66 | -28.50 | 662.54 | -11.50 | 205+00.00 |
| - | - | - | - | - | - | - | - | 0.46 | 661.90 | 662.36 | -49.94 | - | - | - | - | 0.42 | 661.98 | 662.40 | -47.50 | 0.33 | 662.26 | 662.59 | -35.50 | 0.34 | 662.36 | 662.70 | -28.50 | 662.59 | -11.50 | 205+25.00 |
| - | - | - | - | - | - | - | - | 0.44 | 661.95 | 662.39 | -50.44 | - | - | - | - | 0.39 | 662.05 | 662.44 | -47.50 | 0.28 | 662.35 | 662.63 | -35.50 | 0.28 | 662.46 | 662.74 | -28.50 | 662.63 | -11.50 | 205+50.00 |
| - | - | - | - | - | - | - | - | 0.42 | 661.97 | 662.39 | -50.94 | - | - | - | - | 0.35 | 662.09 | 662.44 | -47.50 | 0.23 | 662.41 | 662.64 | -35.50 | 0.21 | 662.54 | 662.75 | -28.50 | 662.64 | -11.50 | 205+75.00 |
| - | - | - | - | - | - | - | - | 0.40 | 661.98 | 662.38 | -51.44 | - | - | - | - | 0.34 | 662.11 | 662.45 | -47.50 | 0.20 | 662.44 | 662.64 | -35.50 | 0.17 | 662.58 | 662.75 | -28.50 | 662.64 | -11.50 | 206+00.00 |
| - | - | - | - | - | - | - | - | 0.37 | 661.97 | 662.34 | -51.94 | - | - | - | - | 0.29 | 662.12 | 662.41 | -47.50 | 0.16 | 662.44 | 662.60 | -35.50 | 0.10 | 662.61 | 662.71 | -28.50 | 662.60 | -11.50 | 206+25.00 |
| - | - | - | - | - | - | - | - | 0.34 | 661.95 | 662.29 | -52.44 | - | - | - | - | 0.28 | 662.09 | 662.37 | -47.50 | 0.13 | 662.44 | 662.57 | -35.50 | 0.09 | 662.59 | 662.68 | -28.50 | 662.57 | -11.50 | 206+50.00 |
| - | - | - | - | - | - | - | - | 0.30 | 661.91 | 662.21 | -52.94 | - | - | - | - | 0.24 | 662.06 | 662.30 | -47.50 | 0.12 | 662.37 | 662.49 | -35.50 | 0.07 | 662.53 | 662.60 | -28.50 | 662.49 | -11.50 | 206+75.00 |
| - | - | - | - | - | - | - | - | 0.29 | 661.84 | 662.13 | -53.44 | - | - | - | - | 0.23 | 661.99 | 662.22 | -47.50 | 0.09 | 662.32 | 662.41 | -35.50 | 0.05 | 662.47 | 662.52 | -28.50 | 662.41 | -11.50 | 207+00.00 |
| - | - | - | - | - | - | - | - | 0.23 | 661.77 | 662.00 | -53.94 | - | - | - | - | 0.19 | 661.91 | 662.10 | -47.50 | 0.06 | 662.24 | 662.30 | -35.50 | 0.05 | 662.36 | 662.41 | -28.50 | 662.30 | -11.50 | 207+25.00 |
| - | - | - | - | - | - | - | - | 0.25 | 661.63 | 661.88 | -54.44 | - | - | - | - | 0.18 | 661.81 | 661.99 | -47.50 | 0.05 | 662.13 | 662.18 | -35.50 | 0.03 | 662.26 | 662.29 | -28.50 | 662.18 | -11.50 | 207+50.00 |
| - | - | - | - | - | - | - | - | 0.23 | 661.48 | 661.71 | -54.93 | - | - | - | - | 0.14 | 661.69 | 661.83 | -47.50 | 0.00 | 662.02 | 662.02 | -35.50 | 0.01 | 662.13 | 662.14 | -28.50 | 662.02 | -11.50 | 207+75.00 |
| - | - | - | - | - | - | - | - | 0.23 | 661.32 | 661.55 | -55.43 | - | - | - | - | 0.16 | 661.52 | 661.68 | -47.50 | 0.01 | 661.86 | 661.87 | -35.50 | 0.05 | 661.93 | 661.98 | -28.50 | 661.87 | -11.50 | 208+00.00 |
| - | - | - | - | - | - | - | - | 0.20 | 661.14 | 661.34 | -55.93 | - | - | - | - | 0.14 | 661.34 | 661.48 | -47.50 | 0.06 | 661.61 | 661.67 | -35.50 | 0.05 | 661.74 | 661.79 | -28.50 | 661.67 | -11.50 | 208+25.00 |
| - | - | - | - | - | - | - | - | 0.21 | 660.93 | 661.14 | -56.43 | - | - | - | - | 0.14 | 661.14 | 661.28 | -47.50 | 0.09 | 661.38 | 661.47 | -35.50 | 0.06 | 661.53 | 661.59 | -28.50 | 661.47 | -11.50 | 208+50.00 |
| - | - | - | - | - | - | - | - | 0.20 | 660.69 | 660.89 | -56.93 | - | - | - | - | 0.11 | 660.94 | 661.05 | -47.50 | 0.04 | 661.20 | 661.24 | -35.50 | 0.02 | 661.33 | 661.35 | -28.50 | 661.24 | -11.50 | 208+75.00 |
| - | - | - | - | - | - | - | - | 0.22 | 660.43 | 660.65 | -57.43 | - | - | - | - | 0.12 | 660.69 | 660.81 | -47.50 | 0.01 | 660.99 | 661.00 | -35.50 | -0.01 | 661.12 | 661.11 | -28.50 | 661.00 | -11.50 | 209+00.00 |
| - | - | - | - | - | - | - | - | 0.21 | 660.16 | 660.37 | -57.93 | - | - | - | - | 0.10 | 660.43 | 660.53 | -47.50 | 0.09 | 660.64 | 660.73 | -35.50 | 0.00 | 660.84 | 660.84 | -28.50 | 660.73 | -11.50 | 209+25.00 |
| - | - | - | - | - | - | - | - | 0.22 | 659.86 | 660.08 | -58.43 | - | - | - | - | 0.12 | 660.14 | 660.26 | -47.50 | 0.08 | 660.37 | 660.45 | -35.50 | 0.01 | 660.55 | 660.56 | -28.50 | 660.45 | -11.50 | 209+50.00 |
| - | - | - | - | - | - | - | - | 0.21 | 659.55 | 659.76 | -58.93 | - | - | - | - | 0.11 | 659.84 | 659.95 | -47.50 | 0.05 | 660.09 | 660.14 | -35.50 | -0.01 | 660.26 | 660.25 | -28.50 | 660.14 | -11.50 | 209+75.00 |
| - | - | - | - | - | - | - | - | 0.21 | 659.22 | 659.43 | -59.43 | - | - | - | - | 0.07 | 659.55 | 659.62 | -47.50 | 0.09 | 659.73 | 659.82 | -35.50 | 0.08 | 659.85 | 659.93 | -28.50 | 659.82 | -11.50 | 210+00.00 |
| - | - | - | - | - | - | - | - | 0.22 | 658.85 | 659.07 | -59.93 | - | - | - | - | 0.07 | 659.20 | 659.27 | -47.50 | 0.06 | 659.40 | 659.46 | -35.50 | -0.03 | 659.60 | 659.57 | -28.50 | 659.46 | -11.50 | 210+25.00 |
| - | - | - | - | - | - | - | - | 0.22 | 658.48 | 658.70 | -60.43 | - | - | - | - | 0.09 | 658.82 | 658.91 | -47.50 | 0.08 | 659.02 | 659.10 | -35.50 | 0.01 | 659.21 | 659.22 | -28.50 | 659.10 | -11.50 | 210+50.00 |
| - | - | - | - | - | - | - | - | 0.19 | 658.11 | 658.30 | -60.93 | 0.11 | 658.36 | 658.47 | -50.00 | 0.09 | 658.42 | 658.51 | -47.50 | 0.05 | 658.65 | 658.70 | -35.50 | 0.02 | 658.80 | 658.82 | -28.50 | 658.71 | -11.50 | 210+75.00 |
| - | - | - | - | - | - | - | - | 0.16 | 657.73 | 657.89 | -61.43 | 0.09 | 657.98 | 658.07 | -50.00 | 0.08 | 658.04 | 658.12 | -47.12 | 0.04 | 658.27 | 658.31 | -35.12 | 0.00 | 658.41 | 658.41 | -28.68 | 658.31 | -11.12 | 211+00.00 |
| - | - | - | - | - | - | - | - | 0.16 | 657.28 | 657.44 | -61.93 | 0.08 | 657.55 | 657.63 | -50.00 | 0.06 | 657.62 | 657.68 | -46.74 | 0.05 | 657.82 | 657.87 | -34.73 | 0.01 | 657.95 | 657.96 | -29.09 | 657.87 | -10.73 | 211+25.00 |
| - | - | - | - | - | - | - | - | 0.17 | 656.82 | 656.99 | -62.43 | 0.09 | 657.10 | 657.19 | -50.00 | 0.07 | 657.18 | 657.25 | -46.35 | 0.08 | 657.36 | 657.44 | -34.35 | 0.05 | 657.47 | 657.52 | -29.50 | 657.44 | -10.35 | 211+50.00 |
| - | - | - | - | - | - | - | - | 0.15 | 656.35 | 656.50 | -62.93 | 0.08 | 656.63 | 656.71 | -50.00 | 0.06 | 656.71 | 656.77 | -45.97 | 0.13 | 656.83 | 656.96 | -33.96 | 0.11 | 656.92 | 657.03 | -29.90 | 656.96 | -9.96 | 211+75.00 |
| - | - | - | - | - | - | - | - | 0.18 | 655.80 | 655.98 | -63.43 | 0.12 | 656.08 | 656.20 | -50.02 | 0.17 | 656.10 | 656.27 | -45.58 | 0.23 | 656.23 | 656.46 | -33.58 | 0.21 | 656.31 | 656.52 | -30.10 | 656.48 | -9.58 | 212+00.00 |
| - | - | - | - | - | - | - | - | 0.18 | 655.68 | 655.86 | -63.53 | 0.12 | 655.95 | 656.07 | -50.02 | 0.25 | 655.89 | 656.15 | -45.50 | 0.22 | 656.12 | 656.34 | -33.50 | 0.19 | 656.20 | 656.39 | -30.10 | 656.37 | -9.58 | 212+05.00 |
| - | - | - | - | - | - | - | - | 0.17 | 655.18 | 655.35 | -63.93 | 0.12 | 655.45 | 655.57 | -50.05 | 0.16 | 655.49 | 655.65 | -45.50 | 0.17 | 655.67 | 655.84 | -33.50 | 0.15 | 655.74 | 655.89 | -30.10 | 655.97 | -9.50 | 212+25.00 |
| - | - | - | - | - | - | - | - | 0.16 | 654.55 | 654.71 | -64.43 | 0.28 | 654.66 | 654.94 | -50.12 | 0.22 | 654.79 | 655.01 | -45.50 | 0.14 | 655.06 | 655.20 | -33.50 | 0.13 | 655.13 | 655.26 | -30.10 | 655.45 | -9.50 | 212+50.00 |
| - | - | - | - | - | - | - | - | 0.12 | 653.92 | 654.04 | -64.93 | 0.27 | 654.01 | 654.28 | -50.23 | 0.20 | 654.16 | 654.36 | -45.50 | 0.08 | 654.47 | 654.55 | -33.50 | 0.06 | 654.54 | 654.60 | -30.10 | 654.91 | -9.50 | 212+75.00 |
| - | - | - | - | - | - | - | - | 0.04 | 653.30 | 653.34 | -65.43 | 0.21 | 653.42 | 653.63 | -50.39 | 0.10 | 653.61 | 653.71 | -45.50 | 0.07 | 653.86 | 653.93 | -33.50 | 0.04 | 653.95 | 653.99 | -30.10 | 654.37 | -9.50 | 213+00.00 |
| - | - | - | - | - | - | - | - | -0.03 | 652.70 | 652.67 | -65.93 | 0.21 | 652.82 | 653.03 | -50.61 | 0.08 | 653.03 | 653.11 | -45.50 | 0.08 | 653.29 | 653.37 | -33.50 | 0.08 | 653.36 | 653.44 | -30.10 | 653.89 | -9.50 | 213+25.00 |
| - | - | - | - | - | - | - | - | -0.09 | 652.13 | 652.04 | -66.50 | 0.19 | 652.28 | 652.47 | -50.86 | 0.11 | 652.45 | 652.56 | -45.50 | 0.05 | 652.80 | 652.85 | -33.50 | 0.03 | 652.91 | 652.94 | -30.10 | 653.45 | -9.50 | 213+50.00 |
| 0.00 | 651.29 | 651.29 | -77.10 | 0.00 | 651.67 | 651.67 | -67.09 | - | - | - | - | 0.00 | 652.03 | 652.03 | -51.09 | -0.07 | 652.16 | 652.09 | -45.50 | 0.08 | 652.34 | 652.42 | -33.50 | 0.12 | 652.39 | 652.51 | -30.10 | 653.06 | -9.50 | 213+75.00 |
| 0.00 | 650.83 | 650.83 | -77.38 | 0.00 | 651.26 | 651.26 | -67.30 | - | - | - | - | 0.00 | 651.63 | 651.63 | -51.30 | -0.02 | 651.77 | 651.75 | -45.50 | 0.12 | 651.96 | 652.08 | -33.50 | 0.14 | 652.03 | 652.17 | -30.10 | 652.73 | -9.50 | 214+00.00 |
| 0.00 | 650.48 | 650.48 | -77.63 | 0.00 | 650.93 | 650.93 | -67.51 | - | - | - | - | 0.00 | 651.31 | 651.31 | -51.51 | 0.07 | 651.41 | 651.48 | -45.50 | 0.19 | 651.62 | 651.81 | -33.50 | 0.21 | 651.69 | 651.90 | -30.10 | 652.46 | -9.50 | 214+25.00 |
| 0.00 | 650.15 | 650.15 | -77.78 | 0.00 | 650.61 | 650.61 | -67.72 | - | - | - | - | 0.00 | 651.03 | 651.03 | -51.72 | 0.06 | 651.17 | 651.23 | -45.50 | 0.16 | 651.40 | 651.56 | -33.50 | 0.19 | 651.46 | 651.65 | -30.10 | 652.21 | -9.50 | 214+50.00 |
| 0.00 | 649.93 | 649.93 | -77.93 | 0.00 | 650.37 | 650.37 | -67.94 | - | - | - | - | 0.00 | 650.83 | 650.83 | -51.94 | 0.15 | 650.93 | 651.08 | -45.50 | 0.23 | 651.17 | 651.40 | -33.50 | 0.25 | 651.24 | 651.49 | -30.10 | 652.05 | -9.50 | 214+75.00 |
| 0.00 | 649.77 | 649.77 | -78.09 | 0.00 | 650.19 | 650.19 | -68.19 | - | - | - | - | 0.00 | 650.68 | 650.68 | -52.19 | 0.11 | 650.81 | 650.92 | -45.50 | 0.18 | 651.07 | 651.25 | -33.50 | 0.21 | 651.13 | 651.34 | -30.10 | 651.89 | -9.50 | 215+00.00 |
| 0.00 | 649.68 | 649.68 | -78.29 | 0.00 | 650.07 | 650.07 | -68.47 | - | - | - | - | 0.00 | 650.60 | 650.60 | -52.11 | 0.16 | 650.71 | 650.87 | -45.50 | 0.22 | 650.97 | 651.19 | -33.50 | 0.23 | 651.05 | 651.28 | -30.10 | 651.84 | -9.50 | 215+25.00 |
| 0.00 | 649.64 | 649.64 | -78.61 | 0.00 | 650.02 | 650.02 | -68.79 | - | - | - | - | 0.00 | 650.55 | 650.55 | -51.87 | 0.11 | 650.70 | 650.81 | -45.50 | 0.17 | 650.97 | 651.14 | -33.50 | 0.17 | 651.06 | 651.23 | -30.10 | 651.78 | -9.50 | 215+50.00 |
| 0.00 | 649.65 | 649.65 | -79.02 | 0.00 | 650.04 | 650.04 | -69.17 | - | - | - | - | 0.00 | 650.56 | 650.56 | -51.70 | 0.14 | 650.71 | 650.85 | -45.50 | 0.19 | 650.99 | 651.18 | -33.50 | 0.18 | 651.09 | 651.27 | -30.10 | 651.83 | -9.50 | 215+75.00 |
| 0.00 | 649.69 | 649.69 | -79.44 | 0.00 | 650.12 | 650.12 | -69.59 | - | - | - | - | 0.00 | 650.66 | 650.66 | -51.60 | 0.12 | 650.79 | 650.91 | -45.50 | 0.14 | 651.09 | 651.23 | -33.50 | 0.13 | 651.19 | 651.32 | -30.10 | 651.88 | -9.50 | 216+00.00 |
| 0.00 | 649.79 | 649.79 | -79.92 | 0.00 | 650.24 | 650.24 | -70.07 | - | - | - | - | 0.00 | 650.81 | 650.81 | -51.56 | 0.13 | 650.91 | 651.04 | -45.50 | 0.16 | 651.21 | 651.37 | -33.50 | 0.14 | 651.32 | 651.46 | -30.10 | 652.01 | -9.50 | 216+25.00 |
| 0.00 | 649.95 | 649.95 | -80.51 | 0.00 | 650.41 | 650.41 | -70.60 | - | - | - | - | 0.00 | 650.99 | 650.99 | -51.59 | 0.10 | 651.10 | 651.20 | -45.50 | 0.13 | 651.40 | 651.53 | -33.50 | 0.11 | 651.51 | 651.62 | -30.10 | 652.17 | -9.50 | 216+50.00 |
| 0.00 | 650.20 | 650.20 | -81.17 | 0.00 | 650.66 | 650.66 | -71.18 | - | - | - | - | 0.00 | 651.21 | 651.21 | -51.68 | 0.09 | 651.34 | 651.43 | -45.50 | 0.12 | 651.64 | 651.76 | -33.50 | 0.11 | 651.74 | 651.85 | -30.10 | 652.41 | -9.50 | 216+75.00 |
| 0.00 | 650.50 | 650.50 | -81.78 | 0.00 | 650.97 | 650.97 | -71.82 | - | - | - | - | 0.00 | 651.49 | 651.49 | -51.84 | 0.07 | 651.63 | 651.70 | -45.50 | 0.12 | 651.91 | 652.03 | -33.50 | 0.11 | 652.01 | 652.12 | -30.10 | 652.68 | -9.50 | 217+00.00 |
| 0.00 | 650.85 | 650.85 | -82.37 | 0.00 | 651.33 | 651.33 | -72.50 | - | - | - | - | 0.00 | 651.84 | 651.84 | -52.07 | 0.06 | 651.97 | 652.03 | -45.50 | 0.12 | 652.23 | 652.35 | -33.50 | 0.13 | 652.32 | 652.45 | -30.10 | 653.00 | -9.50 | 217+25.00 |
| 0.00 | 651.24 | 651.24 | -83.14 | 0.00 | 651.72 | 651.72 | -73.24 | - | - | - | - | 0.00 | 652.26 | 652.26 | -52.28 | 0.04 | 652.37 | 652.41 | -45.50 | 0.14 | 652.59 | 652.73 | -33.50 | 0.13 | 652.69 | 652.82 | -30.10 | 653.38 | -9.50 | 217+50.00 |
| 0.00 | 651.64 | 651.64 | -84.12 | 0.00 | 652.12 | 652.12 | -74.09 | - | - | - | - | 0.00 | 652.73 | 652.73 | -52.68 | 0.03 | 652.81 | 652.84 | -45.50 | 0.13 | 653.04 | 653.17 | -33.50 | 0.13 | 653.13 | 653.26 | -30.10 | 653.82 | -9.50 | 217+75.00 |
| 0.00 | 652.04 | 652.04 | -85.20 | 0.00 | 652.53 | 652.53 | -75.24 | - | - | - | - | 0.00 | 653.21 | 653.21 | -53.37 | 0.03 | 653.29 | 653.32 | -45.50 | 0.15 | 653.49 | 653.64 | -33.50 | 0.15 | 653.58 | 653.73 | -30.10 | 654.29 | -9.50 | 218+00.00 |
| 0.00 | 652.44 | 652.44 | -86.46 | 0.00 | 652.95 | 652.95 | -76.71 | - | - | - | - | 0.00 | 653.71 | 653.71 | -54.36 | 0.06 | 653.80 | 653.86 | -45.50 | 0.17 | 654.02 | 654.19 | -33.50 | 0.16 | 654.12 | 654.28 | -30.10 | 654.83 | -9.50 | 218+25.00 |
| 0.00 | 652.85 | 652.85 | -88.12 | 0.00 | 653.37 | 653.37 | -78.49 | - | - | - | - | 0.00 | 654.26 | 654.26 | -55.64 | 0.05 | 654.38 | 654.43 | -45.50 | 0.11 | 654.64 | 654.75 | -33.50 | 0.12 | 654.72 | 654.84 | -30.10 | 655.40 | -9.50 | 218+50.00 |
| 0.00 | 653.26 | 653.26 | -90.26 | 0.00 | 653.79 | 653.79 | -80.60 | - | - | - | - | 0.00 | 654.85 | 654.85 | -57.22 | 0.07 | 655.01 | 655.08 | -45.50 | 0.12 | 655.29 | 655.41 | -33.50 | 0.11 | 655.39 | 655.50 | -30.10 | 656.05 | -9.50 | 218+75.00 |
| 0.00 | 653.67 | 653.67 | -92.71 | 0.00 | 654.20 | 654.20 | -83.03 | - | - | - | - | 0.00 | 655.41 | 655.41 | -59.10 | 0.08 | 655.67 | 655.75 | -45.50 | 0.07 | 656.00 | 656.07 | -33.50 | 0.06 | 656.10 | 656.16 | -30.10 | 656.72 | -9.50 | 219+00.00 |
| 0.00 | 654.09 | 654.09 | -95.38 | 0.00 | 654.61 | 654.61 | -85.78 | - | - | - | - | 0.00 | 655.90 | 655.90 | -61.27 | 0.10 | 656.38 | 656.48 | -45.50 | 0.08 | 656.73 | 656.81 | -33.50 | 0.07 | 656.83 | 656.90 | -30.10 | 657.45 | -9.50 | 219+25.00 |
| 0.00 | 654.54 | 654.54 | -98.26 | 0.00 | 655.03 | 655.03 | -88.85 | - | - | - | - | 0.00 | 656.32 | 656.32 | -63.73 | 0.16 | 657.08 | 657.24 | -45.50 | 0.08 | 657.48 | 657.56 | -33.50 | 0.08 | 657.58 | 657.66 | -30.10 | 658.21 | -9.50 | 219+50.00 |
| 0.00 | 655.08 | 655.08 | -101.43 | 0.00 | 655.47 | 655.47 | -92.24 | - | - | - | - | 0.00 | 656.77 | 656.77 | -66.49 | 0.18 | 657.82 | 658.00 | -45.50 | 0.11 | 658.22 | 658.33 | -33.50 | 0.10 | 658.32 | 658.42 | -30.10 | 658.97 | -9.50 | 219+75.00 |
| 0.00 | 655.33 | 655.33 | -103.20 | 0.00 | 655.69 | 655.69 | -94.08 | - | - | - | - | 0.00 | 656.99 | 656.99 | -68.00 | 0.18 | 658.20 | 658.38 | -45.50 | 0.12 | 658.59 | 658.71 | -33.50 | 0.10 | 658.70 | 658.80 | -30.10 | 659.36 | -9.50 | 219+87.65 |
| BEGIN LANE 3 SHOULDER | | | | 0.00 | 655.72 | 655.72 | -94.30 | - | - | - | - | 0.00 | 657.02 | 657.02 | -68.18 | 0.19 | 658.24 | 658.43 | -45.50 | 0.13 | 658.63 | 658.76 | -33.50 | 0.10 | 658.75 | 658.85 | -30.10 | 659.40 | -9.50 | 219+89.14 |
| | | | | - | - | - | - | - | - | - | - | 0.00 | 657.08 | 657.08 | -68.66 | 0.19 | 658.36 | 658.55 | -45.50 | 0.12 | 658.75 | 658.87 | -33.50 | 0.10 | 658.86 | 658.96 | -30.10 | 659.52 | -9.50 | 219+92.98 |
| 0.35 | 657.73 | 658.08 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.19 | 658.37 | 658.56 | -45.50 | 0.12 | 658.76 | 658.88 | -33.50 | 0.10 | 658.88 | 658.98 | -30.10 | 659.53 | -9.50 | 219+93.40 |
| 0.31 | 657.97 | 658.28 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.20 | 658.56 | 658.76 | -45.50 | 0.12 | 658.96 | 659.08 | -33.50 | 0.10 | 659.08 | 659.18 | -30.10 | 659.73 | -9.50 | 220+00.00 |
| 0.18 | 658.86 | 659.04 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 | 659.40 | 659.52 | -45.50 | 0.11 | 659.74 | 659.85 | -33.50 | 0.07 | 659.87 | 659.94 | -30.10 | 660.49 | -9.50 | 220+25.00 |
| 0.08 | 659.72 | 659.80 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.03 | 660.25 | 660.28 | -45.50 | 0.05 | 660.55 | 660.60 | -33.50 | 0.02 | 660.68 | 660.70 | -30.10 | 661.25 | -9.50 | 220+50.00 |
| 0.08 | 660.48 | 660.56 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.00 | 661.04 | 661.04 | -45.50 | 0.02 | 661.35 | 661.37 | -33.50 | -0.02 | 661.48 | 661.46 | -30.10 | 662.01 | -9.50 | 220+75.00 |
| 0.00 | 660.72 | 660.72 | -57.50 | - | - | - | - | - | - | - | - | - | - | - | - | 0.01 | 661.29 | 661.30 | -45.50 | 0.02 | 661.61 | 661.63 | -33.50 | -0.02 | 661.74 | 661.72 | -30.10 | 662.27 | -9.50 | 220+83.50 |




Preliminary Plans - Not For Construction
For Reference Only

RESURFACING DETAIL TABLE
I.R. 77 SB STA. 204+03.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 04/25/22

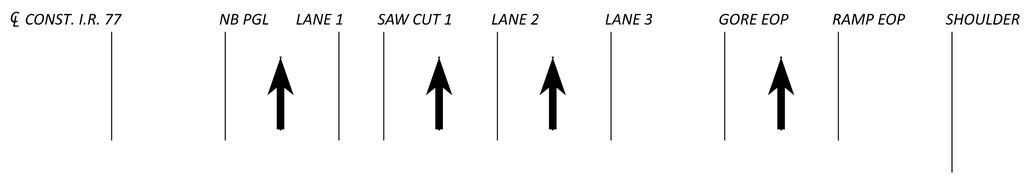
PROJECT ID
105743

SHEET P.619 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Plan 1 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:00 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE002.dgn

| CL 77 | PGL NB | | SAWCUT 1 | | | | LANE 2 | | | | LANE 3 | | | | GORE EOP | | | | RAMP EOP | | | | SHOULDER | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATION | OFFSET | PROPOSED ELEVATION | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE |
| 208+08.00 | 9.50 | 661.51 | 42.00 | 661.37 | 661.29 | 0.08 | - | - | - | - | 45.50 | 661.31 | 661.17 | 0.14 | - | - | - | - | - | - | - | - | 55.50 | 660.92 | 660.81 | 0.11 |
| 208+25.00 | 9.50 | 661.37 | 42.00 | 661.23 | 661.28 | -0.05 | - | - | - | - | 45.50 | 661.18 | 661.07 | 0.11 | - | - | - | - | - | - | - | - | 55.50 | 660.78 | 660.70 | 0.08 |
| 208+40.00 | 9.50 | 661.25 | 42.00 | 661.11 | 661.27 | -0.16 | - | - | - | - | 45.50 | 661.05 | 660.99 | 0.06 | - | - | - | - | 45.50 | 661.05 | 660.99 | 0.06 | 55.50 | 660.65 | 660.61 | 0.04 |
| 208+50.00 | 9.50 | 661.16 | 42.00 | 661.03 | 661.18 | -0.15 | - | - | - | - | 45.50 | 660.97 | 660.94 | 0.03 | - | - | - | - | 46.70 | 660.95 | 660.89 | 0.06 | 56.55 | 660.55 | 660.51 | 0.04 |
| 208+75.00 | 9.50 | 660.93 | 42.00 | 660.79 | 661.06 | -0.27 | - | - | - | - | 45.50 | 660.73 | 660.91 | -0.18 | - | - | - | - | 49.70 | 660.65 | 660.64 | 0.01 | 59.18 | 660.27 | 660.29 | -0.02 |
| 209+00.00 | 9.50 | 660.69 | 42.00 | 660.55 | 660.83 | -0.28 | - | - | - | - | 45.50 | 660.50 | 660.68 | -0.18 | - | - | - | - | 52.70 | 660.35 | 660.33 | 0.02 | 61.80 | 659.99 | 660.01 | -0.02 |
| 209+25.00 | 9.50 | 660.41 | 42.00 | 660.28 | 660.57 | -0.29 | - | - | - | - | 45.50 | 660.22 | 660.41 | -0.19 | - | - | - | - | 55.70 | 660.01 | 659.98 | 0.03 | 64.43 | 659.64 | 659.68 | -0.04 |
| 209+40.00 | 9.50 | 660.25 | 42.00 | 660.11 | 660.39 | -0.28 | - | - | - | - | 45.50 | 660.06 | 660.27 | -0.21 | - | - | - | - | 57.50 | 659.80 | 659.75 | 0.05 | 66.00 | 659.43 | 659.45 | -0.02 |
| 209+50.00 | 9.50 | 660.14 | 42.00 | 660.00 | 660.25 | -0.25 | - | - | - | - | 45.50 | 659.95 | 660.11 | -0.16 | - | - | - | - | 57.50 | 659.71 | 659.62 | 0.09 | 66.00 | 659.37 | 659.31 | 0.06 |
| 209+56.00 | 9.50 | 660.07 | 30.00 | 660.13 | 660.45 | -0.33 | 33.50 | | 660.38 | 660.38 | 45.50 | 659.88 | 660.06 | -0.19 | - | - | - | - | 57.50 | 659.64 | 659.55 | 0.09 | 66.00 | 659.30 | 659.24 | 0.06 |
| 209+75.00 | 9.50 | 659.84 | 30.00 | 659.89 | 660.21 | -0.32 | 33.50 | 660.16 | 659.84 | -0.32 | 45.50 | 659.66 | 659.84 | -0.18 | - | - | - | - | 57.50 | 659.42 | 659.29 | 0.13 | 66.00 | 659.08 | 658.95 | 0.13 |
| 210+00.00 | 9.50 | 659.52 | 30.00 | 659.59 | 659.91 | -0.32 | 33.50 | 659.86 | 659.54 | -0.32 | 45.50 | 659.37 | 659.52 | -0.15 | - | - | - | - | 57.50 | 659.13 | 658.94 | 0.19 | 66.00 | 658.79 | 658.59 | 0.20 |
| 210+25.00 | 9.50 | 659.17 | 30.00 | 659.27 | 659.56 | -0.29 | 33.50 | 659.50 | 659.22 | -0.28 | 45.50 | 659.08 | 659.15 | -0.07 | - | - | - | - | 57.50 | 658.84 | 658.59 | 0.25 | 66.00 | 658.50 | 658.22 | 0.28 |
| 210+50.00 | 9.50 | 658.82 | 30.00 | 658.93 | 659.21 | -0.28 | 33.50 | 659.12 | 658.90 | -0.22 | 45.50 | 658.78 | 658.85 | -0.07 | - | - | - | - | 57.50 | 658.54 | 658.21 | 0.33 | 66.00 | 658.20 | 657.87 | 0.33 |
| 210+75.00 | 9.50 | 658.44 | 30.00 | 658.56 | 658.77 | -0.21 | 33.50 | 658.69 | 658.54 | -0.15 | 45.50 | 658.45 | 658.41 | 0.04 | - | - | - | - | 57.50 | 658.21 | 657.84 | 0.37 | 66.00 | 657.87 | 657.52 | 0.35 |
| 211+00.00 | 9.50 | 658.05 | 30.00 | 658.20 | 658.37 | -0.17 | 33.50 | 658.29 | 658.18 | -0.11 | 45.50 | 658.13 | 658.09 | 0.04 | - | - | - | - | 57.50 | 657.89 | 657.50 | 0.39 | 66.00 | 657.55 | 657.18 | 0.37 |
| 211+25.00 | 9.50 | 657.63 | 30.00 | 657.79 | 657.96 | -0.17 | 33.50 | 657.85 | 657.79 | -0.06 | 45.50 | 657.76 | 657.65 | 0.11 | - | - | - | - | 57.50 | 657.52 | 657.18 | 0.34 | 66.00 | 657.18 | 656.90 | 0.28 |
| 211+50.00 | 9.50 | 657.21 | 30.00 | 657.40 | 657.49 | -0.09 | 33.50 | 657.45 | 657.40 | -0.05 | 45.50 | 657.39 | 657.28 | 0.11 | - | - | - | - | 57.50 | 657.15 | 656.89 | 0.26 | 66.00 | 656.81 | 656.60 | 0.21 |
| 211+75.00 | 9.50 | 656.75 | 30.00 | 656.95 | 657.16 | -0.21 | 33.50 | 657.05 | 656.97 | -0.08 | 45.50 | 656.99 | 656.89 | 0.10 | - | - | - | - | 57.50 | 656.75 | 656.57 | 0.18 | 66.00 | 656.41 | 656.28 | 0.13 |
| 212+00.00 | 9.50 | 656.29 | 30.00 | 656.52 | 656.64 | -0.12 | 33.50 | 656.60 | 656.54 | -0.06 | 45.50 | 656.59 | 656.46 | 0.13 | - | - | - | - | 57.50 | 656.35 | 655.91 | 0.44 | 66.00 | 656.01 | 655.88 | 0.13 |
| 212+25.00 | 9.50 | 655.80 | 30.00 | 656.04 | 656.21 | -0.17 | 33.50 | 656.18 | 656.07 | -0.11 | 45.50 | 656.16 | 655.99 | 0.17 | - | - | - | - | 57.50 | 655.92 | 655.26 | 0.66 | 66.00 | 655.58 | 655.47 | 0.11 |
| 212+50.00 | 9.50 | 655.30 | 30.00 | 655.57 | 655.76 | -0.19 | 33.50 | 655.75 | 655.61 | -0.14 | 45.50 | 655.72 | 655.61 | 0.11 | - | - | - | - | 57.50 | 655.53 | 654.60 | 0.93 | 66.00 | 655.19 | 655.07 | 0.12 |
| 212+75.00 | 9.50 | 654.81 | 30.00 | 655.09 | 655.34 | -0.25 | 33.50 | 655.33 | 655.14 | -0.19 | 45.50 | 655.28 | 655.19 | 0.09 | - | - | - | - | 57.50 | 655.14 | 654.24 | 0.90 | 66.00 | 654.80 | 654.76 | 0.04 |
| 213+00.00 | 9.50 | 654.31 | 30.00 | 654.62 | 654.89 | -0.27 | 33.50 | 654.86 | 654.67 | -0.19 | 45.50 | 654.83 | 654.76 | 0.07 | - | - | - | - | 57.50 | 654.75 | 654.25 | 0.50 | 66.00 | 654.41 | 654.46 | -0.05 |
| 213+25.00 | 9.50 | 653.82 | 30.00 | 654.15 | 654.47 | -0.32 | 33.50 | 654.49 | 654.21 | -0.28 | 45.50 | 654.41 | 654.34 | 0.07 | - | - | - | - | 57.50 | 654.35 | 654.41 | -0.06 | 66.00 | 654.01 | 654.20 | -0.19 |
| 213+50.00 | 9.50 | 653.38 | 30.00 | 653.76 | 654.05 | -0.29 | 33.50 | 654.05 | 653.83 | -0.22 | 45.50 | 654.05 | 653.99 | 0.06 | - | - | - | - | 57.50 | 653.99 | 654.08 | -0.09 | 66.00 | 653.65 | 653.90 | -0.25 |
| 213+75.00 | 9.50 | 653.00 | 30.00 | 653.43 | 653.65 | -0.22 | 33.50 | 653.69 | 653.50 | -0.19 | 45.50 | 653.76 | 653.76 | 0.00 | - | - | - | - | 57.50 | 653.70 | 653.78 | -0.08 | 66.00 | 653.36 | 653.60 | -0.24 |
| 214+00.00 | 9.50 | 652.66 | 30.00 | 653.14 | 653.30 | -0.16 | 33.50 | 653.34 | 653.22 | -0.12 | 45.50 | 653.50 | 653.49 | 0.01 | - | - | - | - | 57.50 | 653.44 | 653.50 | -0.06 | 66.00 | 653.10 | 653.32 | -0.22 |
| 214+25.00 | 9.50 | 652.40 | 30.00 | 652.94 | 653.02 | -0.08 | 33.50 | 653.07 | 653.02 | -0.05 | 45.50 | 653.33 | 653.26 | 0.07 | - | - | - | - | 57.50 | 653.27 | 653.27 | 0.00 | 66.00 | 653.03 | 653.13 | -0.10 |
| 214+50.00 | 9.50 | 652.17 | 30.00 | 652.72 | 652.75 | -0.03 | 33.50 | 652.82 | 652.81 | -0.01 | 45.50 | 653.14 | 653.02 | 0.12 | - | - | - | - | 57.50 | 653.08 | 653.04 | 0.04 | 66.00 | 652.90 | 652.90 | 0.00 |
| 214+75.00 | 9.50 | 652.03 | 30.00 | 652.58 | 652.53 | 0.05 | 33.50 | 652.60 | 652.67 | 0.07 | 45.50 | 653.00 | 652.79 | 0.21 | - | - | - | - | 57.59 | 652.94 | 652.78 | 0.16 | 66.09 | 652.69 | 652.67 | 0.02 |
| 215+00.00 | 9.50 | 651.89 | 30.00 | 652.44 | 652.36 | 0.08 | 33.50 | 652.43 | 652.54 | 0.11 | 45.50 | 652.86 | 652.61 | 0.25 | - | - | - | - | 57.85 | 652.80 | 652.58 | 0.22 | 66.35 | 652.48 | 652.47 | 0.01 |
| 215+25.00 | 9.50 | 651.86 | 30.00 | 652.41 | 652.26 | 0.15 | 33.50 | 652.31 | 652.51 | 0.20 | 45.50 | 652.83 | 652.44 | 0.39 | - | - | - | - | 58.26 | 652.77 | 652.41 | 0.36 | 66.76 | 652.33 | 652.30 | 0.03 |
| 215+50.00 | 9.50 | 651.82 | 30.00 | 652.38 | 652.24 | 0.14 | 33.50 | 652.30 | 652.47 | 0.17 | 45.50 | 652.80 | 652.43 | 0.37 | - | - | - | - | 58.83 | 652.73 | 652.34 | 0.39 | 67.33 | 652.19 | 652.17 | 0.02 |
| 215+75.00 | 9.50 | 651.90 | 30.00 | 652.45 | 652.28 | 0.17 | 33.50 | 652.33 | 652.55 | 0.22 | 45.50 | 652.87 | 652.44 | 0.43 | - | - | - | - | 59.56 | 652.80 | 652.33 | 0.47 | 68.06 | 652.25 | 652.23 | 0.02 |
| 216+00.00 | 9.50 | 651.98 | 30.00 | 652.53 | 652.37 | 0.16 | 33.50 | 652.43 | 652.63 | 0.20 | 45.50 | 652.95 | 652.55 | 0.40 | - | - | - | - | 60.45 | 652.88 | 652.49 | 0.39 | 68.95 | 652.30 | 652.28 | 0.02 |
| 216+25.00 | 9.50 | 652.15 | 30.00 | 652.71 | 652.51 | 0.20 | 33.50 | 652.56 | 652.80 | 0.24 | 45.50 | 653.13 | 652.75 | 0.38 | - | - | - | - | 61.49 | 653.05 | 652.74 | 0.31 | 70.00 | 652.71 | 652.49 | 0.22 |
| 216+25.47 | 9.50 | 652.16 | 30.00 | 652.71 | 652.51 | 0.20 | 33.50 | 652.57 | 652.81 | 0.24 | 45.50 | 653.13 | 652.75 | 0.38 | 45.50 | 653.13 | 652.75 | 0.38 | 61.52 | 653.05 | 652.75 | 0.30 | 70.03 | 652.77 | 652.49 | 0.28 |
| 216+50.00 | 9.50 | 652.35 | 30.00 | 652.91 | 652.69 | 0.22 | 33.50 | 652.74 | 653.00 | 0.26 | 45.50 | 653.33 | 652.96 | 0.37 | 46.68 | 653.32 | 652.97 | 0.35 | 62.70 | 653.24 | 652.97 | 0.27 | 71.21 | 652.90 | 652.71 | 0.19 |
| 216+75.00 | 9.50 | 652.63 | 30.00 | 653.18 | 652.92 | 0.26 | 33.50 | 652.99 | 653.28 | 0.29 | 45.50 | 653.60 | 653.19 | 0.41 | 48.05 | 653.59 | 653.21 | 0.38 | 64.07 | 653.51 | 653.19 | 0.32 | 72.59 | 653.17 | 652.93 | 0.24 |
| 217+00.00 | 9.50 | 652.94 | 30.00 | 653.50 | 653.20 | 0.30 | 33.50 | 653.28 | 653.59 | 0.31 | 45.50 | 653.92 | 653.50 | 0.42 | 49.57 | 653.90 | 653.54 | 0.36 | 65.60 | 653.80 | 653.53 | 0.27 | 74.12 | 653.46 | 653.20 | 0.26 |
| 217+25.00 | 9.50 | 653.32 | 30.00 | 653.87 | 653.53 | 0.34 | 33.50 | 653.61 | 653.97 | 0.36 | 45.50 | 654.29 | 653.86 | 0.43 | 51.25 | 654.26 | 653.92 | 0.34 | 67.29 | 654.16 | 653.89 | 0.27 | 75.81 | 653.82 | 653.48 | 0.34 |
| 217+50.00 | 9.50 | 653.74 | 30.00 | 654.30 | 653.90 | 0.40 | 33.50 | 653.99 | 654.40 | 0.41 | 45.50 | 654.72 | 654.25 | 0.47 | 53.10 | 654.68 | 654.36 | 0.32 | 69.14 | 654.58 | 654.31 | 0.27 | 77.67 | 654.24 | 653.90 | 0.34 |
| 217+75.00 | 9.50 | 654.24 | 30.00 | 654.79 | 654.33 | 0.46 | 33.50 | 654.41 | 654.89 | 0.48 | 45.50 | 655.21 | 654.70 | 0.51 | 55.10 | 655.17 | 654.84 | 0.33 | 71.15 | 655.05 | 654.72 | 0.33 | 79.68 | 654.71 | 654.33 | 0.38 |
| 218+00.00 | 9.50 | 654.77 | 30.00 | 655.33 | 654.83 | 0.50 | 33.50 | 654.91 | 655.42 | 0.51 | 45.50 | 655.75 | 655.18 | 0.57 | 57.27 | 655.69 | 655.36 | 0.33 | 73.33 | 655.56 | 655.28 | 0.28 | 81.86 | 655.22 | 654.89 | 0.33 |
| 218+25.00 | 9.50 | 655.38 | 30.00 | 655.94 | 655.40 | 0.54 | 33.50 | 655.47 | 656.03 | 0.56 | 45.50 | 656.35 | 655.72 | 0.63 | 59.59 | 656.28 | 655.95 | 0.33 | 75.66 | 656.15 | 655.85 | 0.30 | 84.20 | 655.81 | 655.47 | 0.34 |
| 218+50.00 | 9.50 | 656.02 | 30.00 | 656.57 | 656.02 | 0.55 | 33.50 | 656.09 | 656.66 | 0.57 | 45.50 | 656.99 | 656.33 | 0.66 | 62.08 | 656.91 | 656.58 | 0.33 | 78.16 | 656.76 | 656.50 | 0.26 | 86.71 | 656.42 | 656.12 | 0.30 |
| 218+75.00 | 9.50 | 656.69 | 30.00 | 657.25 | 656.68 | 0.57 | 33.50 | 656.75 | 657.34 | 0.59 | 45.50 | 657.66 | 656.97 | 0.69 | 64.73 | 657.45 | 657.22 | 0.23 | 80.82 | 657.30 | 657.15 | 0.15 | 89.37 | 656.96 | 656.78 | 0.18 |
| 219+00.00 | 9.50 | 657.37 | 30.00 | 657.92 | 657.37 | 0.55 | 33.50 | 657.44 | 658.01 | 0.57 | 45.50 | 658.34 | 657.64 | 0.70 | 67.54 | 657.97 | 657.89 | 0.08 | 83.65 | 657.81 | 657.79 | 0.02 | 92.20 | 657.46 | 657.46 | 0.00 |
| 219+06.35 | 9.50 | 657.54 | 30.00 | 658.09 | 657.56 | 0.53 | 33.50 | 657.62 | 658.19 | 0.57 | 45.50 | 658.51 | 657.82 | 0.69 | 68.28 | 658.05 | 658.06 | -0.01 | 84.39 | 657.93 | 657.95 | -0.02 | BEGIN LANE 3 SHOULDER | | | |
| 219+08.18 | 9.50 | 657.59 | 30.00 | 658.14 | 657.61 | 0.53 | 33.50 | 657.68 | 658.51 | 0.83 | 45.50 | 658.56 | 657.87 | 0.69 | 68.50 | 658.12 | 658.11 | 0.01 | - | - | - | - | | | | |
| 219+25.00 | 9.50 | 658.04 | 30.00 | 658.60 | 658.11 | 0.49 | 33.50 | 658.17 | 658.69 | 0.52 | 45.50 | 659.01 | 658.32 | 0.69 | - | - | - | - | - | - | - | - | 54.00 | 658.61 | 658.31 | 0.30 |
| 219+50.00 | 9.50 | 658.72 | 30.00 | 659.27 | 658.88 | 0.39 | 33.50 | 658.93 | 659.36 | 0.43 | 45.50 | 659.69 | 659.07 | 0.62 | - | - | - | - | - | - | - | - | 54.00 | 659.29 | 659.08 | 0.21 |
| 219+75.00 | 9.50 | 659.39 | 30.00 | 659.95 | 659.66 | 0.29 | 33.50 | 659.72 | 660.04 | 0.32 | 45.50 | 660.37 | 659.84 | 0.53 | - | - | - | - | - | - | - | - | 54.00 | 659.97 | 659.79 | 0.18 |
| 220+00.00 | 9.50 | 660.07 | 30.00 | 660.62 | 660.45 | 0.17 | 33.50 | 660.52 | 660.71 | 0.19 | 45.50 | 661.04 | 660.66 | 0.38 | - | - | - | - | - | - | - | - | 54.00 | 660.64 | 660.55 | 0.09 |
| 220+25.00 | 9.50 | 660.74 | 30.00 | 661.37 | 661.25 | 0.12 | 33.50 | 661.34 | 661.46 | 0.12 | 45.50 | 661.79 | 661.50 | 0.29 | - | - | - | - | - | - | - | - | 54.00 | 661.39 | 661.27 | 0.12 |
| 220+50.00 | 9.50 | 661.42 | 30.00 | 662.12 | 662.06 | 0.06 | 33.50 | 662.15 | 662.21 | 0.06 | 45.50 | 662.54 | 662.23 | 0.31 | - | - | - | - | - | - | - | - | 54.00 | 662.14 | 661.97 | 0.17 |
| 220+75.00 | 9.50 | 662.09 | 30.00 | 662.87 | 662.86 | 0.01 | 33.50 | 662.92 | 662.96 | 0.04 | 45.50 | 663.28 | 662.94 | 0.34 | - | - | - | - | - | - | - | - | 54.00 | 662.88 | 662.61 | 0.27 |
| 220+83.50 | 9.50 | 662.33 | 30.00 | 663.12 | 663.12 | 0.00 | 33.50 | 663.19 | 663.21 | 0.02 | 45.50 | 663.54 | 663.18 | 0.36 | - | - | - | - | - | - | - | - | 54.00 | 663.14 | 662.84 | 0.30 |




Preliminary Plans - For Reference Only

RESURFACING DETAIL TABLE
I.R. 77 NB STA. 208+08.00 TO 220+83.50

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 04/25/22

PROJECT ID
105743

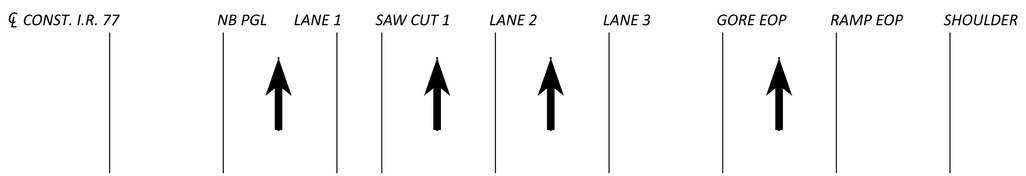
SHEET P.620 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Plan 2 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:02 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE002.dgn

| CL 77 | PGL NB | | SAWCUT 1 | | | | LANE 2 | | | | LANE 3 | | | | GORE EOP | | | | RAMP EOP | | | | SHOULDER | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATION | OFFSET | PROPOSED ELEVATION | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE | OFFSET | PROPOSED ELEVATION | EXISTING ELEVATION | ELEVATION DIFFERENCE |
| 221+00.00 | 9.50 | MATCH EXISTING | - | - | - | - | 33.50 | 663.69 | 663.69 | 0.00 | 45.50 | 664.01 | 663.66 | 0.35 | - | - | - | - | - | - | - | - | 54.00 | 663.67 | 663.37 | 0.30 |
| 221+25.00 | 9.50 | | - | - | - | - | 33.50 | 664.45 | 664.45 | 0.00 | 45.50 | 664.77 | 664.42 | 0.35 | - | - | - | - | - | - | - | - | 54.00 | 664.43 | 664.15 | 0.28 |
| 221+50.00 | 9.50 | | - | - | - | - | 33.50 | 665.23 | 665.23 | 0.00 | 45.50 | 665.55 | 665.20 | 0.35 | - | - | - | - | - | - | - | - | 54.00 | 665.21 | 664.96 | 0.25 |
| 221+75.00 | 9.50 | | - | - | - | - | 33.50 | 666.01 | 666.01 | 0.00 | 45.50 | 666.33 | 665.98 | 0.35 | - | - | - | - | - | - | - | - | 54.00 | 665.99 | 665.75 | 0.24 |
| 222+00.00 | 9.50 | | - | - | - | - | 33.50 | 666.75 | 666.75 | 0.00 | 45.50 | 667.07 | 666.74 | 0.33 | - | - | - | - | - | - | - | - | 54.00 | 666.73 | 666.52 | 0.21 |
| 222+15.00 | 9.50 | | - | - | - | - | 33.50 | 667.17 | 667.17 | 0.00 | 45.50 | 667.50 | 667.19 | 0.31 | - | - | - | - | - | - | - | - | 54.00 | 667.16 | 666.97 | 0.19 |
| 222+25.00 | 9.50 | | - | - | - | - | 33.50 | 667.45 | 667.45 | 0.00 | 45.50 | 667.76 | 667.47 | 0.29 | - | - | - | - | - | - | - | - | 54.00 | 667.42 | 667.25 | 0.17 |
| 222+50.00 | 9.50 | | - | - | - | - | 33.50 | 668.15 | 668.15 | 0.00 | 45.50 | 668.43 | 668.16 | 0.27 | - | - | - | - | - | - | - | - | 54.00 | 668.09 | 667.92 | 0.17 |
| 222+75.00 | 9.50 | | - | - | - | - | 33.50 | 668.85 | 668.85 | 0.00 | 45.50 | 669.09 | 668.83 | 0.26 | - | - | - | - | - | - | - | - | 54.00 | 668.75 | 668.56 | 0.19 |
| 223+00.00 | 9.50 | | - | - | - | - | 33.50 | 669.55 | 669.55 | 0.00 | 45.50 | 669.76 | 669.52 | 0.24 | - | - | - | - | - | - | - | - | 54.00 | 669.42 | 669.26 | 0.16 |
| 223+10.00 | 9.50 | | - | - | - | - | 33.50 | 669.83 | 669.83 | 0.00 | 45.50 | 670.02 | 669.80 | 0.22 | - | - | - | - | - | - | - | - | 54.00 | 669.68 | 669.55 | 0.13 |
| 223+25.00 | 9.50 | | - | - | - | - | 33.50 | 670.25 | 670.25 | 0.00 | 45.50 | 670.41 | 670.22 | 0.19 | - | - | - | - | - | - | - | - | 54.00 | 670.07 | 670.23 | -0.17 |
| 223+50.00 | 9.50 | | - | - | - | - | 33.50 | 671.06 | 671.06 | 0.00 | 45.50 | 671.16 | 670.97 | 0.19 | - | - | - | - | - | - | - | - | 54.00 | 670.82 | 670.98 | -0.16 |
| 223+75.00 | 9.50 | | - | - | - | - | 33.50 | 671.89 | 671.89 | 0.00 | 45.50 | 671.94 | 671.72 | 0.22 | - | - | - | - | - | - | - | - | 54.00 | 671.60 | 671.73 | -0.14 |
| 223+96.00 | 9.50 | | - | - | - | - | 33.50 | 672.59 | 672.59 | 0.00 | 45.50 | 672.59 | 672.38 | 0.21 | - | - | - | - | - | - | - | - | 54.00 | 672.25 | 672.40 | -0.15 |
| 224+00.00 | 9.50 | | - | - | - | - | 33.50 | 672.73 | 672.73 | 0.00 | 45.50 | 672.72 | 672.51 | 0.21 | - | - | - | - | - | - | - | - | 54.00 | 672.38 | 672.52 | -0.14 |
| 224+25.00 | 9.50 | | - | - | - | - | 33.50 | 673.56 | 673.56 | 0.00 | 45.50 | 673.50 | 673.31 | 0.19 | - | - | - | - | - | - | - | - | 54.00 | 673.16 | 673.32 | -0.17 |
| 224+50.00 | 9.50 | | - | - | - | - | 33.50 | 673.42 | 673.42 | 0.00 | 45.50 | 673.30 | 673.23 | 0.07 | - | - | - | - | - | - | - | - | 54.00 | 672.96 | 672.96 | 0.00 |
| 224+75.00 | 9.50 | | - | - | - | - | 33.50 | 674.21 | 674.21 | 0.00 | 45.50 | 674.03 | 674.02 | 0.02 | - | - | - | - | - | - | - | - | 54.00 | 673.69 | 673.69 | 0.00 |
| 224+82.00 | 9.50 | | - | - | - | - | 33.50 | 674.43 | 674.43 | 0.00 | 45.50 | 674.24 | 674.24 | 0.00 | - | - | - | - | - | - | - | - | 54.00 | 673.90 | 673.90 | 0.00 |
| 225+00.00 | 9.50 | | - | - | - | - | 33.50 | 675.00 | 675.00 | 0.00 | 45.50 | 674.81 | 674.81 | 0.00 | - | - | - | - | - | - | - | - | 54.00 | 674.47 | 674.47 | 0.00 |
| 225+25.00 | 9.50 | | - | - | - | - | 33.50 | 675.79 | 675.79 | 0.00 | 45.50 | 675.60 | 675.60 | 0.00 | - | - | - | - | - | - | - | - | 54.00 | 675.26 | 675.26 | 0.00 |
| 225+40.00 | 9.50 | | - | - | - | - | 33.50 | 676.26 | 676.26 | 0.00 | 45.50 | 676.07 | 676.07 | 0.00 | - | - | - | - | - | - | - | - | 54.00 | 675.73 | 675.73 | 0.00 |

Preliminary Plans - For Reference Only




RESURFACING DETAIL TABLE
I.R. 77 NB STA. 220+83.50 TO STA. 225+40.00

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/25/22
PROJECT ID 105743
SHEET P.621 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Plan 3 PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:03 PM USER: kperkins
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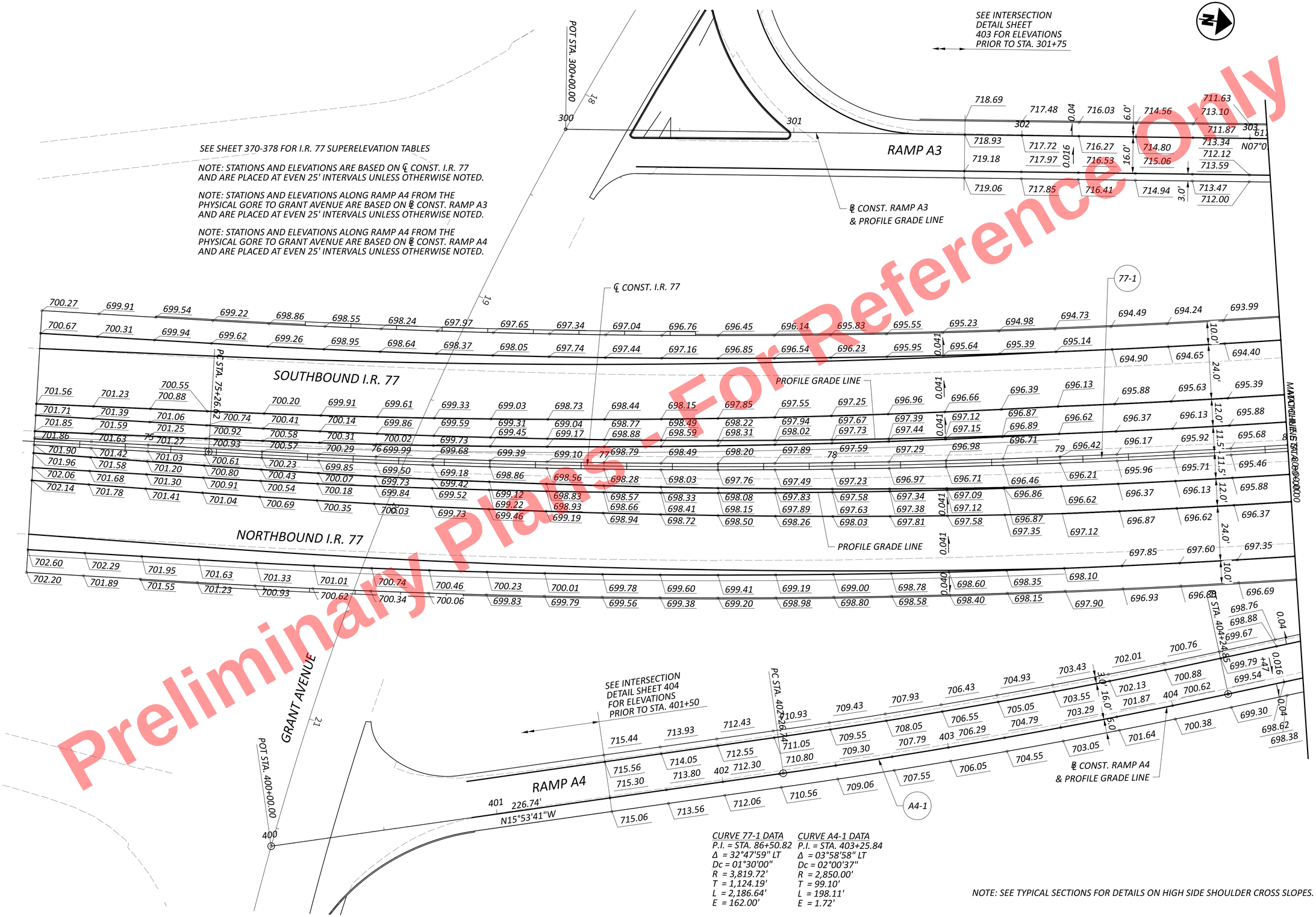


CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE A4-1 DATA
P.I. = STA. 403+25.84
Δ = 03°58'58" LT
Dc = 02°00'37"
R = 2,850.00'
T = 99.10'
L = 198.11'
E = 1.72'

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 10 20 40

# INTERCHANGE DETAILS RAMPS A3 & A4

DESIGN AGENCY HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.622 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:19 PM USER: kperkins
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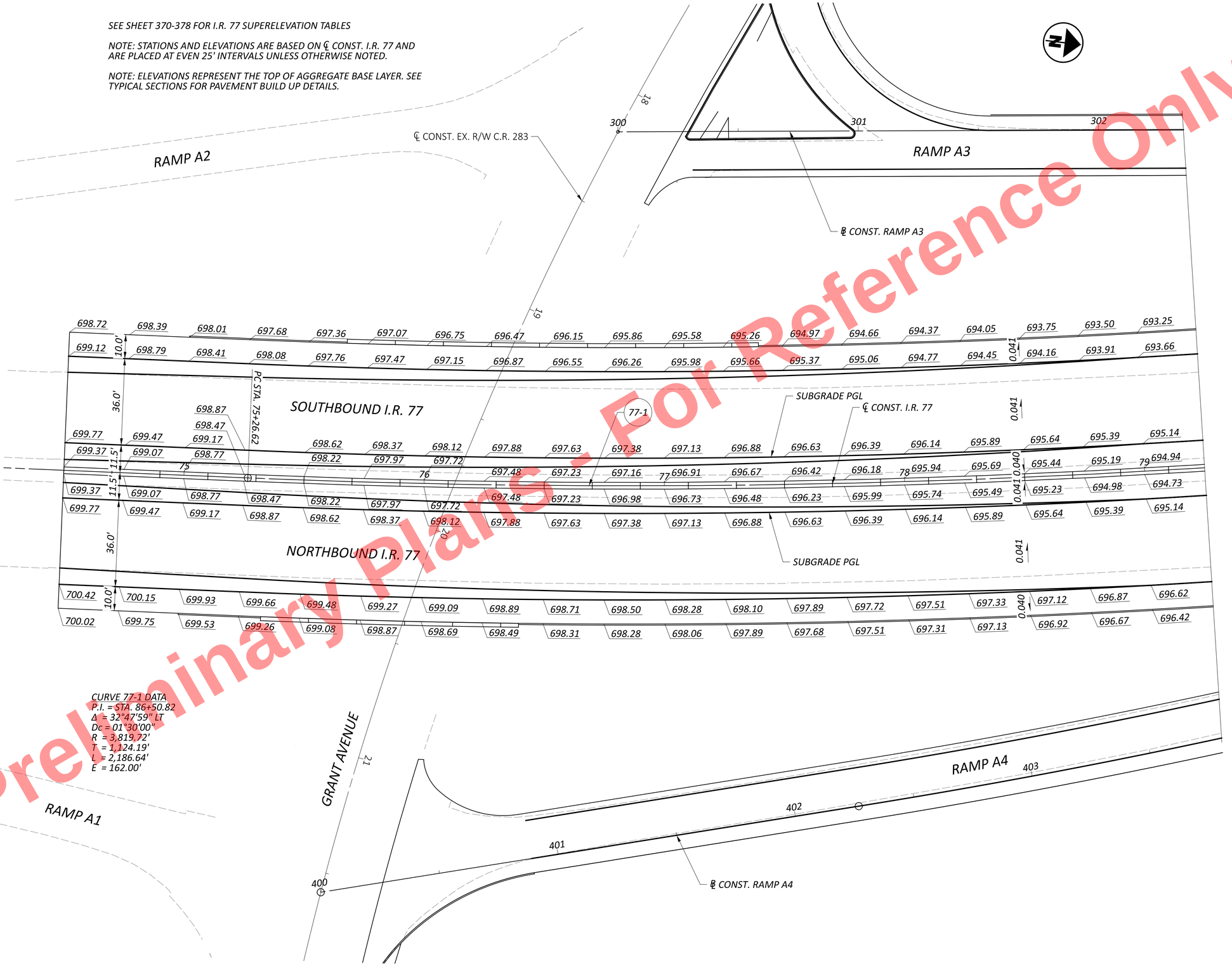
SEE SHEET 370-378 FOR I.R. 77 SUPERELEVATION TABLES

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: ELEVATIONS REPRESENT THE TOP OF AGGREGATE BASE LAYER. SEE TYPICAL SECTIONS FOR PAVEMENT BUILD UP DETAILS.




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# I.R. 77 SUBGRADE ELEVATIONS

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 08-08-25
PROJECT ID 105743
SHEET P.622A TOTAL P.1135

CUY-77-11.21 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:27 PM USER: kperkins
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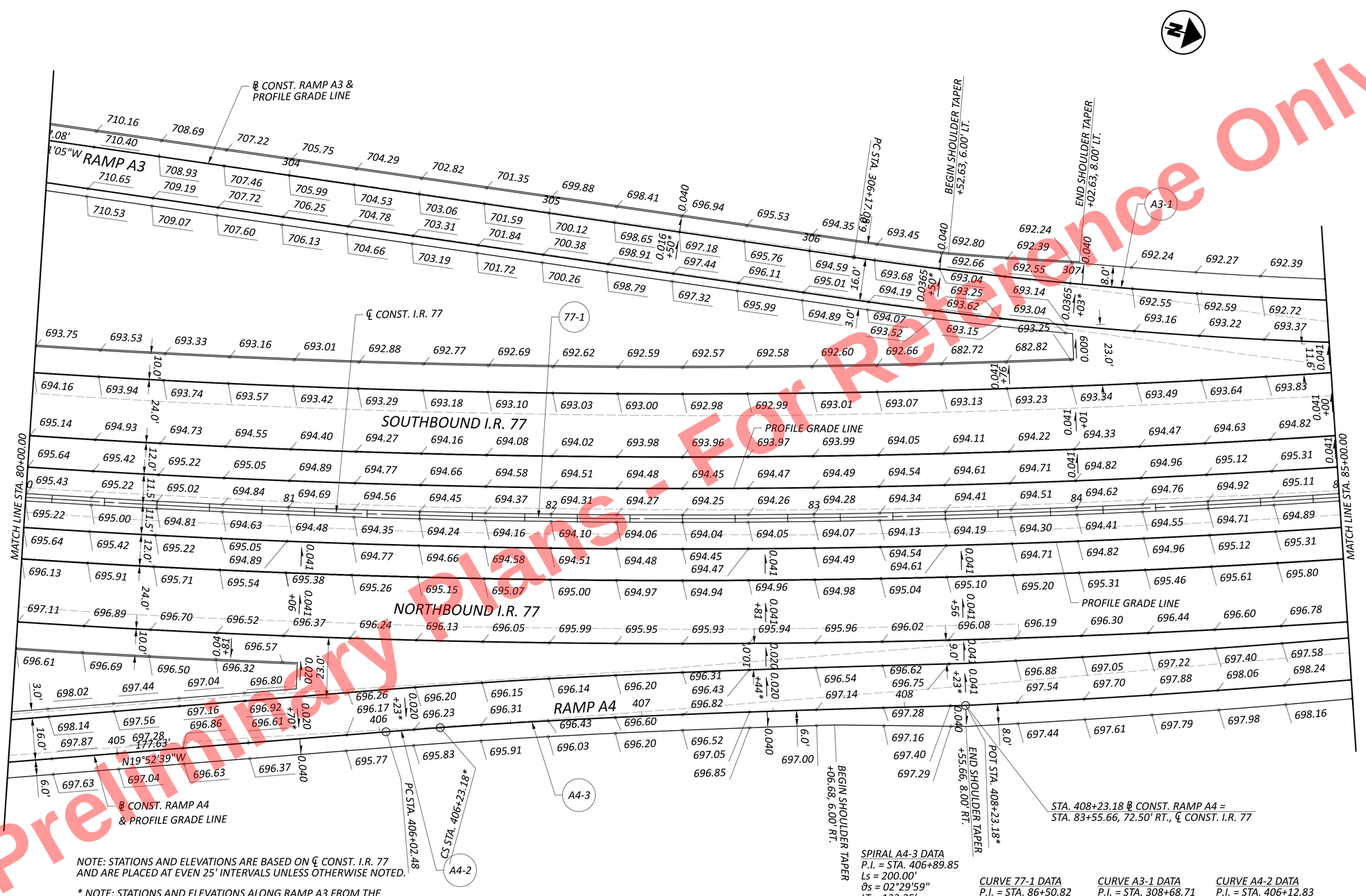


Preliminary Plans - For Reference Only

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* NOTE: STATIONS AND ELEVATIONS ALONG RAMP A3 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST RAMP A3 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

* NOTE: STATIONS AND ELEVATIONS ALONG RAMP A4 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST. RAMP A4 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

*SPIRAL A4-3 DATA*
P.I. = STA. 406+89.85
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 406+23.18
End = Sta. 408+23.18
C.B. = N17°41'37"W

*CURVE 77-1 DATA*
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

*CURVE A3-1 DATA*
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

*CURVE A4-2 DATA*
P.I. = STA. 406+12.83
Δ = 00°31'02" Rt
Dc = 02°29'59"
R = 2,292.00'
T = 10.35'
L = 20.69'
E = 0.02'

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.623 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:45 PM USER: kperkins
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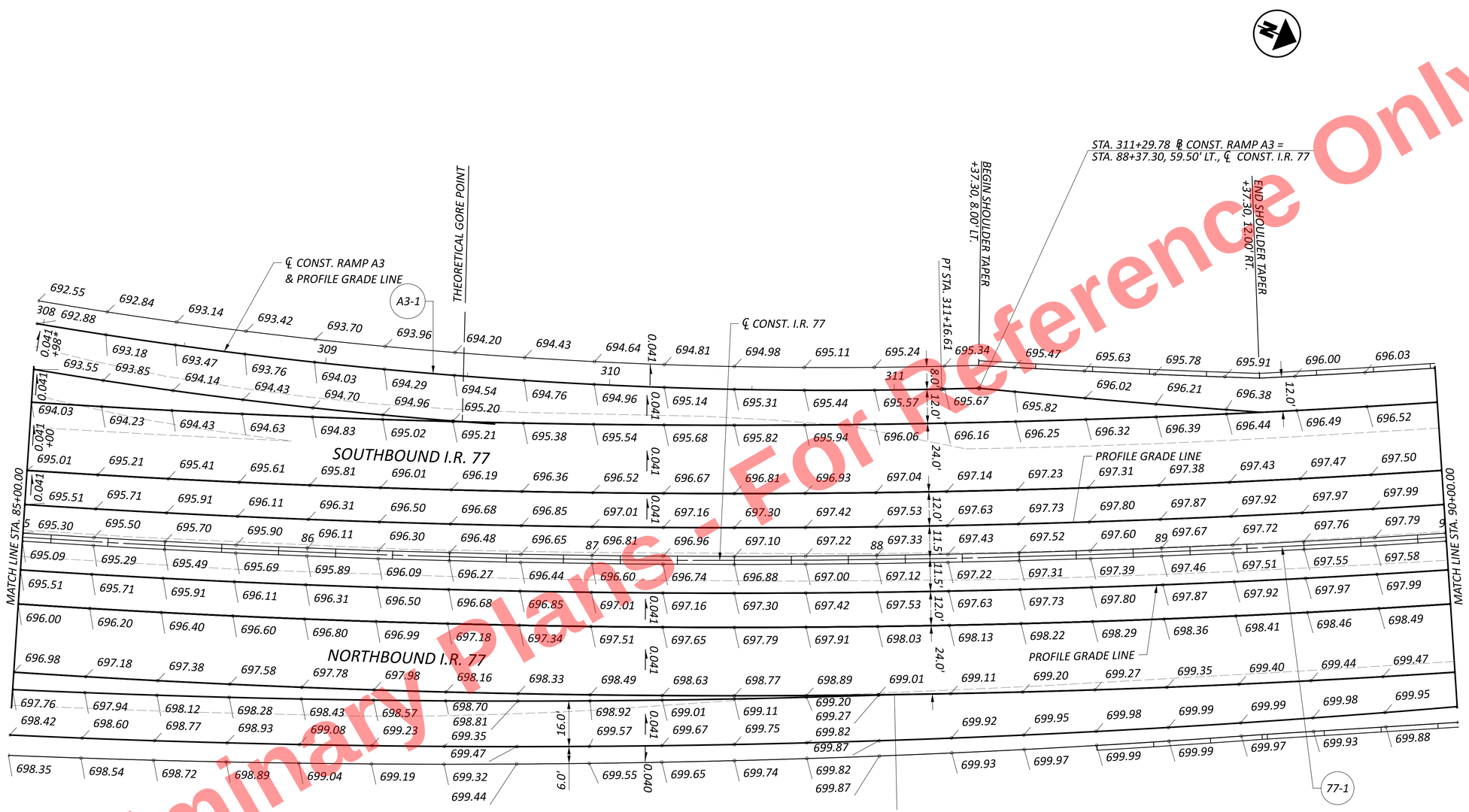


Preliminary Plans - For Reference Only

NOTES: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTES: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

**CURVE 77-1 DATA**
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

**CURVE A3-1 DATA**
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.624 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:47 PM USER: kperkins
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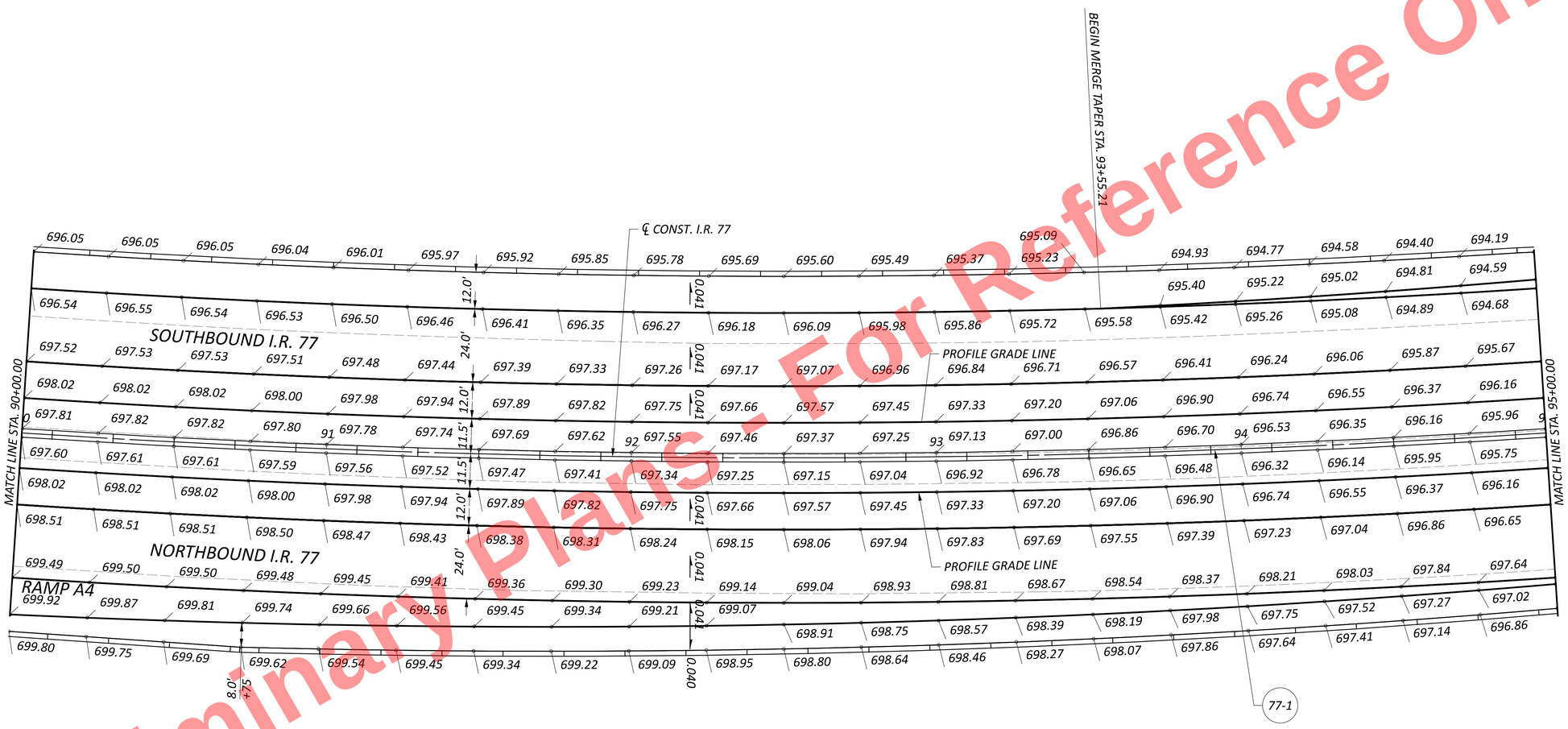



NOTE: RAMP A4 TAPERS FROM STA. 83+55.66
TO STA. 96+05.66 AT A RATE OF 50:1

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21
TO STA. 101+55.37 AT A RATE OF 50:1

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77
AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS A4 & B2

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:48 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GI201.dgn

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

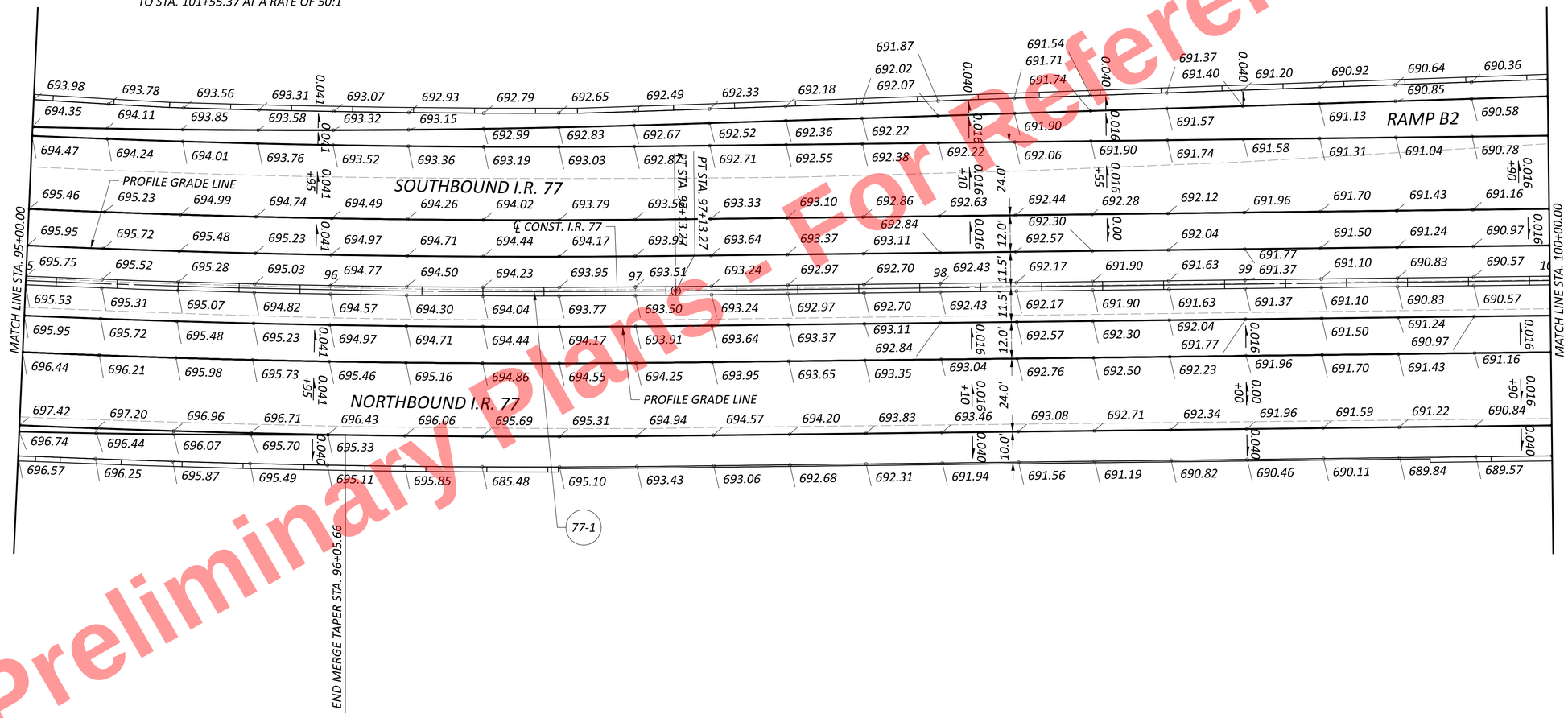
PROJECT ID
105743

SHEET P.625 TOTAL P.1135

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

NOTE: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21 TO STA. 101+55.37 AT A RATE OF 50:1




Preliminary Plans - For Reference Only

*CURVE 77-1 DATA*
*P.I. = STA. 86+50.82*
*Δ = 32°47'59" LT*
*Dc = 01°30'00"*
*R = 3,819.72'*
*T = 1,124.19'*
*L = 2,186.64'*
*E = 162.00'*

*NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.*

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS B1 & B2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.626 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:50 PM USER: kperkins
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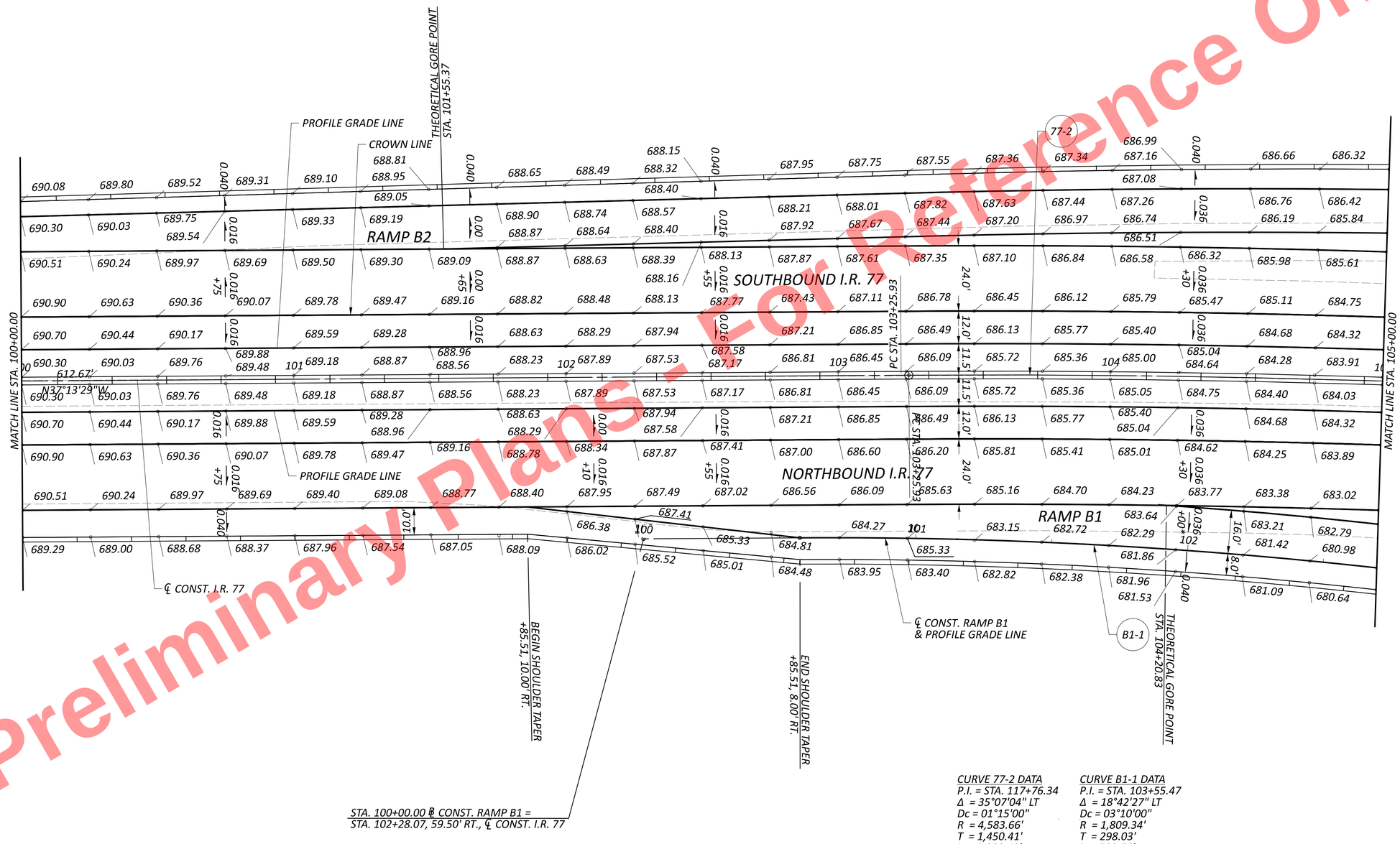
NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77
AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21
TO STA. 101+55.37 AT A RATE OF 50:1

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.




CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" LT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

Preliminary Plans - Not For Construction
For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.627 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:51 PM USER: kperkins
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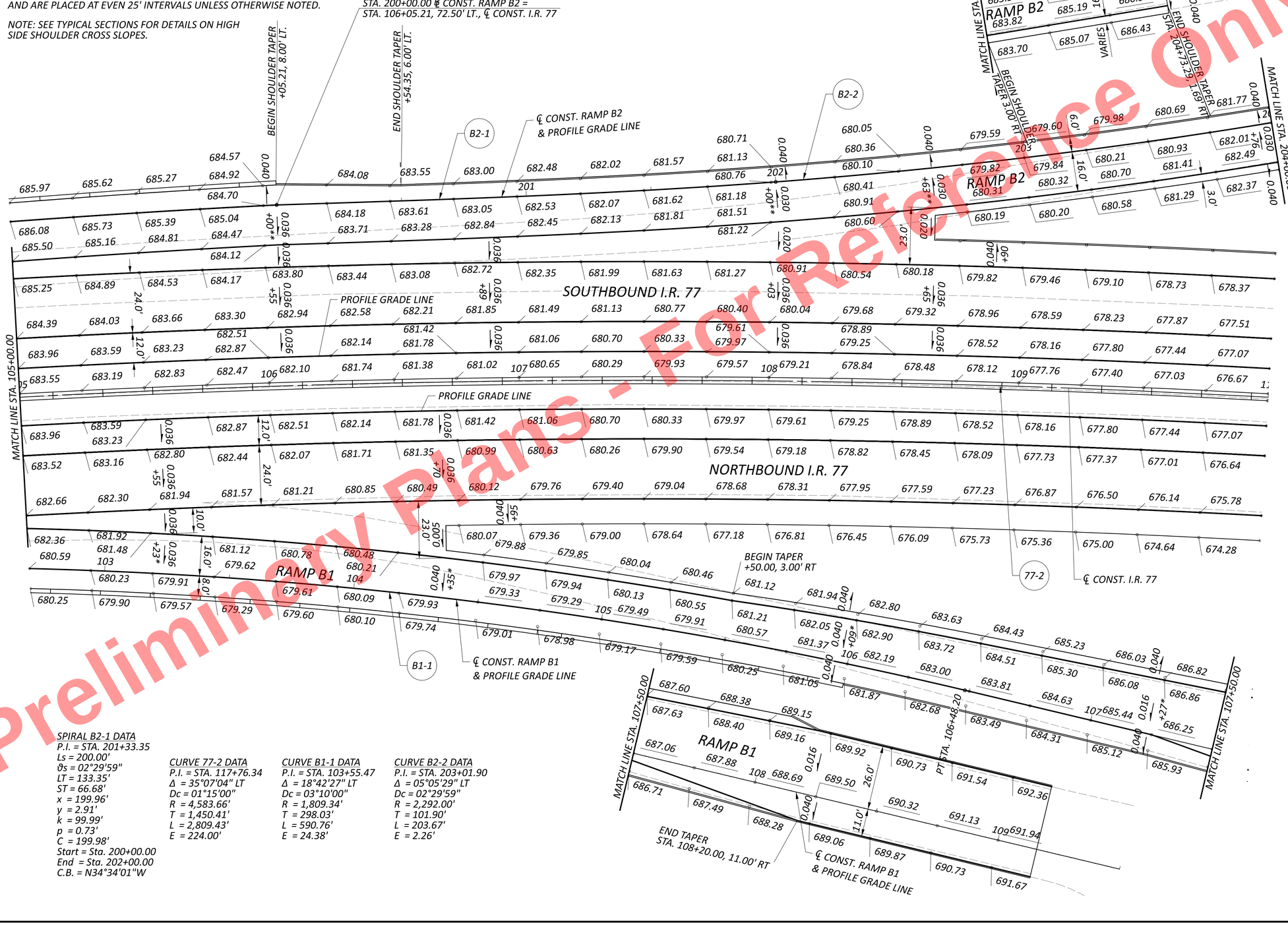
NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP B1 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST. RAMP B1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

**NOTE: STATIONS AND ELEVATIONS ALONG RAMP B2 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST. RAMP B2 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.




*SPIRAL B2-1 DATA*
P.I. = STA. 201+33.35
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 200+00.00
End = Sta. 202+00.00
C.B. = N34°34'01"W

*CURVE 77-2 DATA*
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

*CURVE B1-1 DATA*
P.I. = STA. 103+55.47
Δ = 18°42'27" LT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

*CURVE B2-2 DATA*
P.I. = STA. 203+01.90
Δ = 05°05'29" LT
Dc = 02°29'59"
R = 2,292.00'
T = 101.90'
L = 203.67'
E = 2.26'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMPS A4 & B2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.628 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_177 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:27:53 PM USER: kperkins
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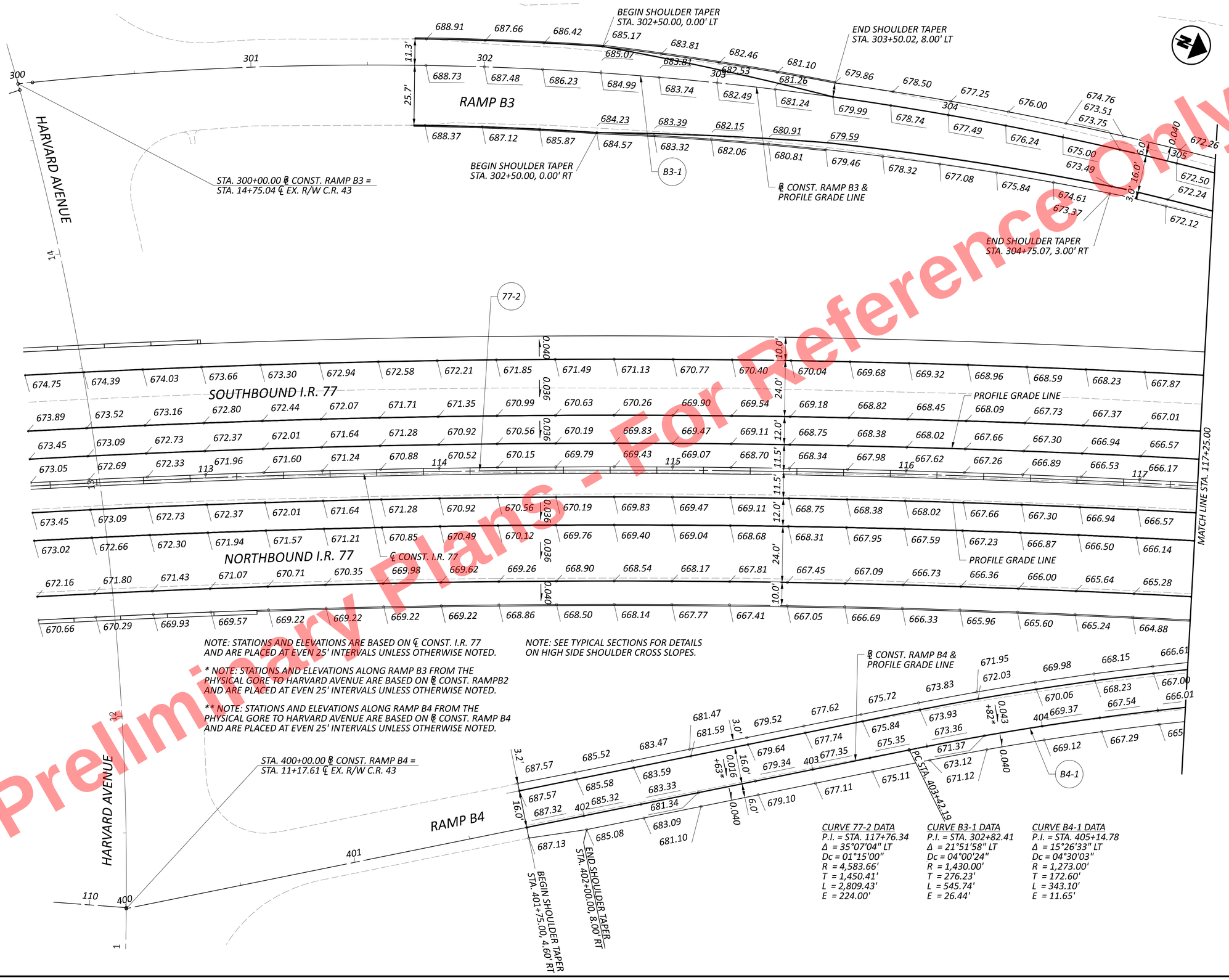


Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:28:07 PM USER: kperkins
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INTERCHANGE DETAILS
RAMPS C2 & C3

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.629 TOTAL P.1135




Preliminary Plans - For Reference Only

* NOTE: STATIONS AND ELEVATIONS ALONG RAMP B3 FROM THE PHYSICAL GORE TO HARVARD AVENUE ARE BASED ON ℄ CONST. RAMP B3 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

** NOTE: STATIONS AND ELEVATIONS ALONG RAMP B4 FROM THE PHYSICAL GORE TO HARVARD AVENUE ARE BASED ON ℄ CONST. RAMP B4 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

**SPIRAL B4-2 DATA**
P.I. = STA. 407+51.99
Ls = 200.00'
ϑs = 04°30'03"
LT = 133.38'
ST = 66.71'
x = 199.88'
y = 5.24'
k = 99.98'
p = 1.31'
C = 199.95'
Start = Sta. 406+85.29
End = Sta. 408+85.29
C.B. = N15°52'10"W

**CURVE 77-2 DATA**
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

**CURVE B3-1 DATA**
P.I. = STA. 302+82.41
Δ = 21°51'58" RT
Dc = 04°00'24"
R = 1,430.00'
T = 276.23'
L = 545.74'
E = 26.44'

**CURVE B3-2 DATA**
P.I. = STA. 309+06.95
Δ = 05°53'53" LT
Dc = 01°35'00"
R = 3,618.68'
T = 186.42'
L = 372.52'
E = 4.80'

**CURVE B4-1 DATA**
P.I. = STA. 405+14.78
Δ = 15°26'33" LT
Dc = 04°30'03"
R = 1,273.00'
T = 172.60'
L = 343.10'
E = 11.65'

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMPS B3 & B4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.630 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:28:08 PM USER: kperkins
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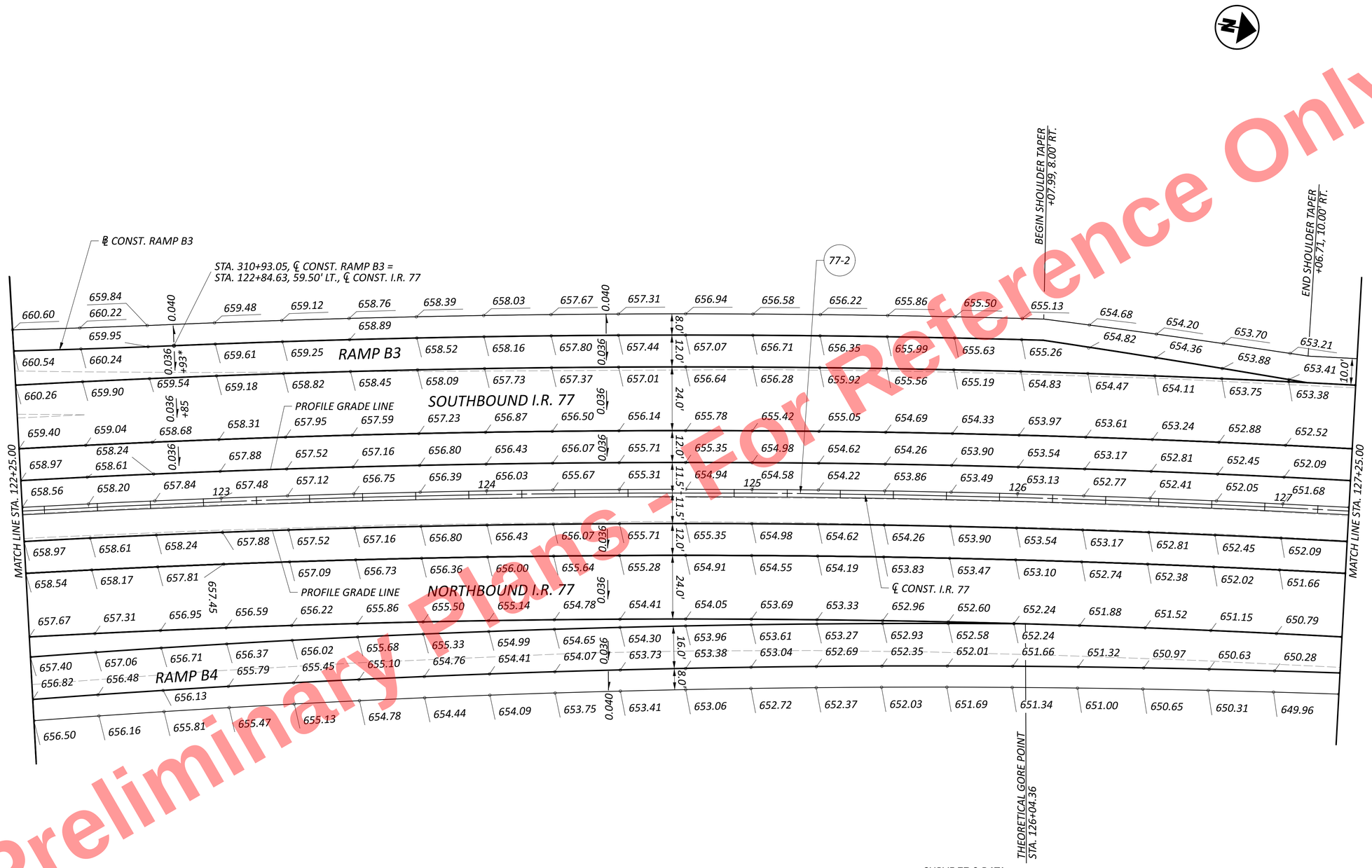


Preliminary Plans - For Reference Only

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMPS B3 & B4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.631 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:28:10 PM USER: kperkins
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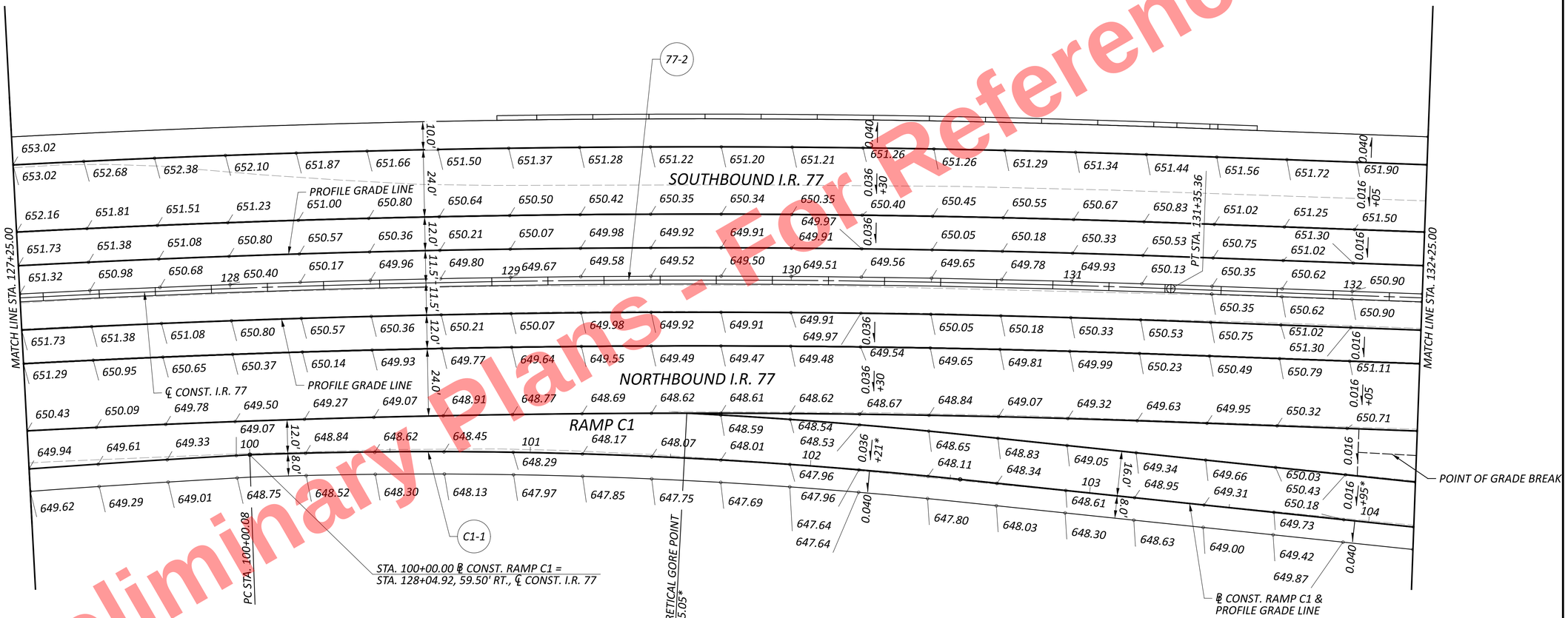


Preliminary Plans - For Reference Only

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* NOTE: STATIONS AND ELEVATIONS ALONG RAMP C1 FROM THE PHYSICAL GORE TO FLEET AVENUE ARE BASED ON ℘ CONST. RAMP C1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

*CURVE 77-2 DATA*
*P.I. = STA. 117+76.34*
*Δ = 35°07'04" LT*
*Dc = 01°15'00"*
*R = 4,583.66'*
*T = 1,450.41'*
*L = 2,809.43'*
*E = 224.00'*

*CURVE C1-1 DATA*
*P.I. = STA. 101+27.03*
*Δ = 08°01'37" LT*
*Dc = 03°10'00"*
*R = 1,809.34'*
*T = 126.95'*
*L = 253.48'*
*E = 4.45'*

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMP C1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.632 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:28:12 PM USER: kperkins
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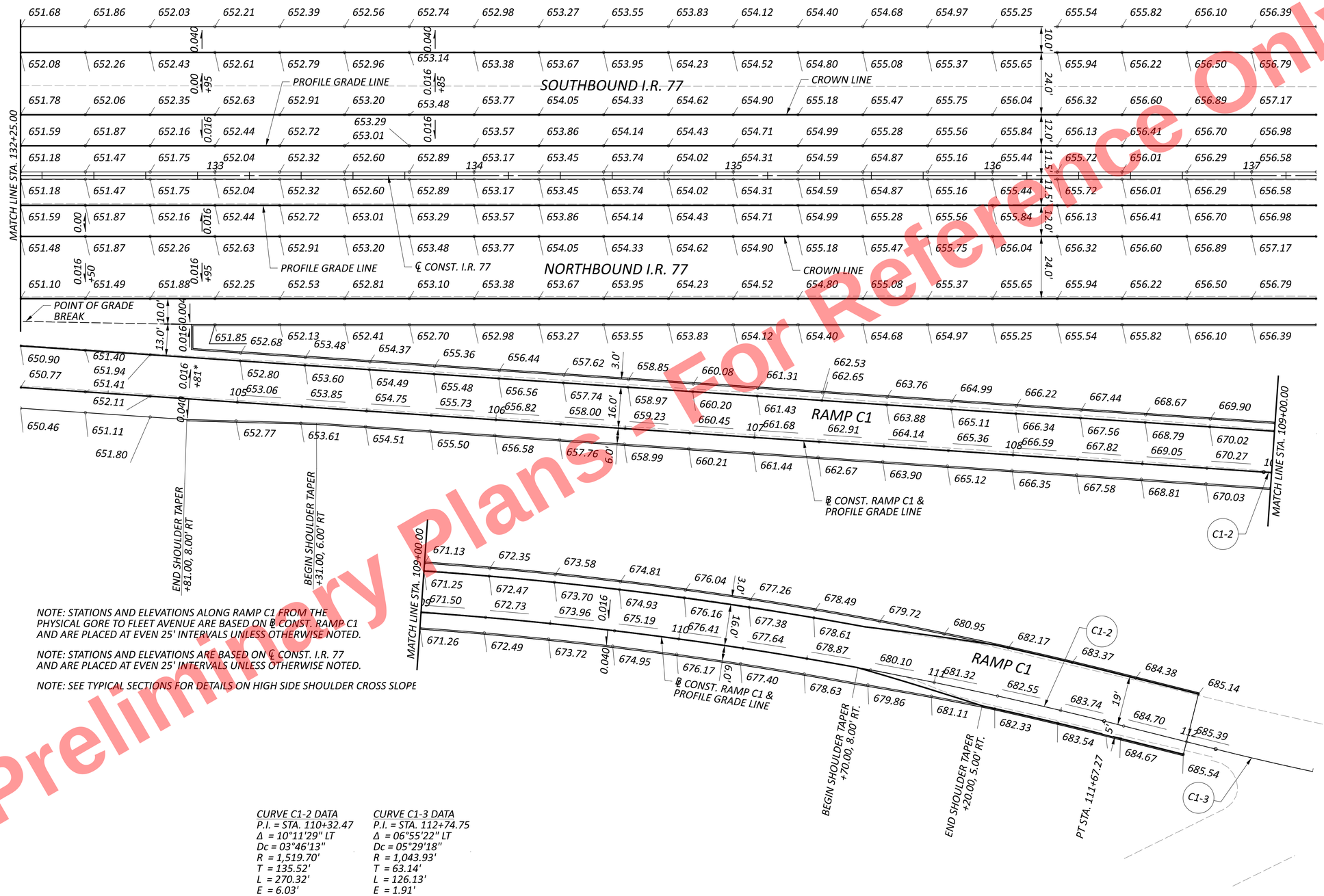


NOTE: STATIONS AND ELEVATIONS ALONG RAMP C1 FROM THE PHYSICAL GORE TO FLEET AVENUE ARE BASED ON ℄ CONST. RAMP C1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPE

*CURVE C1-2 DATA*
*P.I. = STA. 110+32.47*
*Δ = 10°11'29" LT*
*Dc = 03°46'13"*
*R = 1,519.70'*
*T = 135.52'*
*L = 270.32'*
*E = 6.03'*

*CURVE C1-3 DATA*
*P.I. = STA. 112+74.75*
*Δ = 06°55'22" LT*
*Dc = 05°29'18"*
*R = 1,043.93'*
*T = 63.14'*
*L = 126.13'*
*E = 1.91'*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMP C1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.633 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:28:13 PM USER: kperkins
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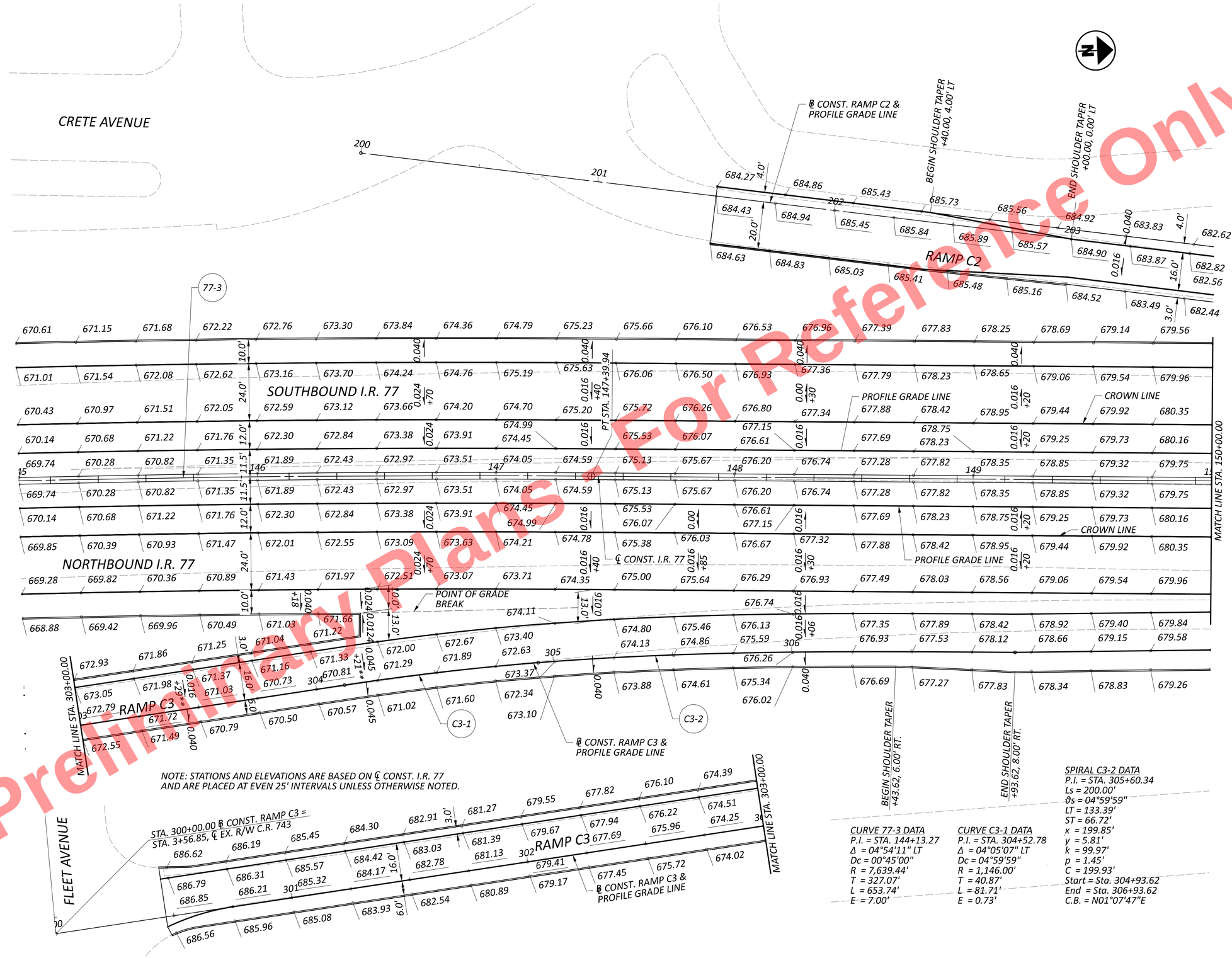


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS C2 & C3

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.634 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:04 PM USER: kperkins
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NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP C2 FROM THE PHYSICAL GORE TO FLEET AVENUE ARE BASED ON ℄ CONST. RAMP C2 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

**CURVE 77-4 DATA**
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

**CURVE C3-1 DATA**
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

Preliminary Plans - Not for Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMPS C2 & C3

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.635 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:05 PM USER: kperkins
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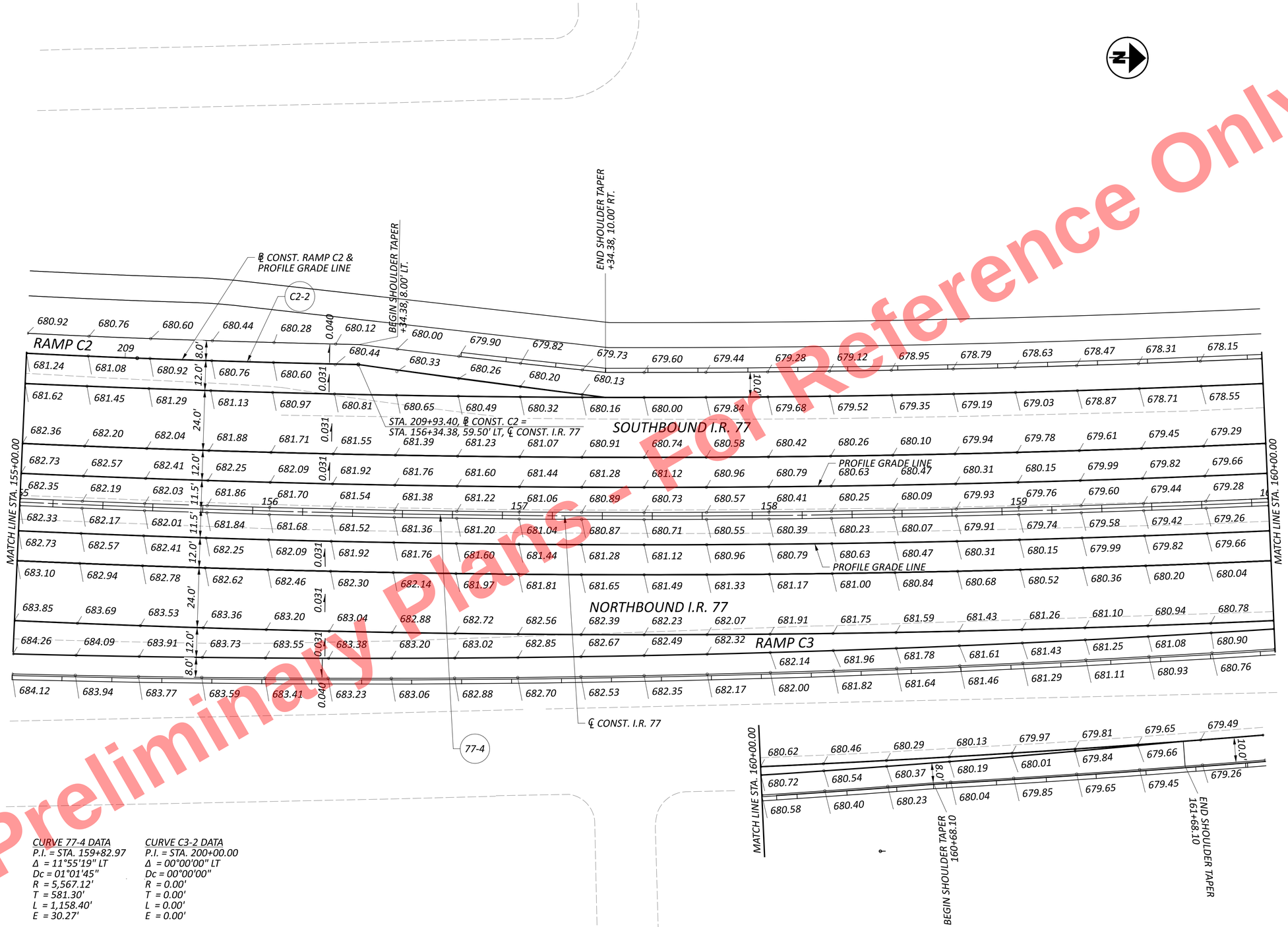


Preliminary Plans - For Reference Only

**CURVE 77-4 DATA**
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

**CURVE C3-2 DATA**
P.I. = STA. 200+00.00
Δ = 00°00'00" LT
Dc = 00°00'00"
R = 0.00'
T = 0.00'
L = 0.00'
E = 0.00'

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTION FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
## RAMP D2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.636 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:08 PM USER: kperkins
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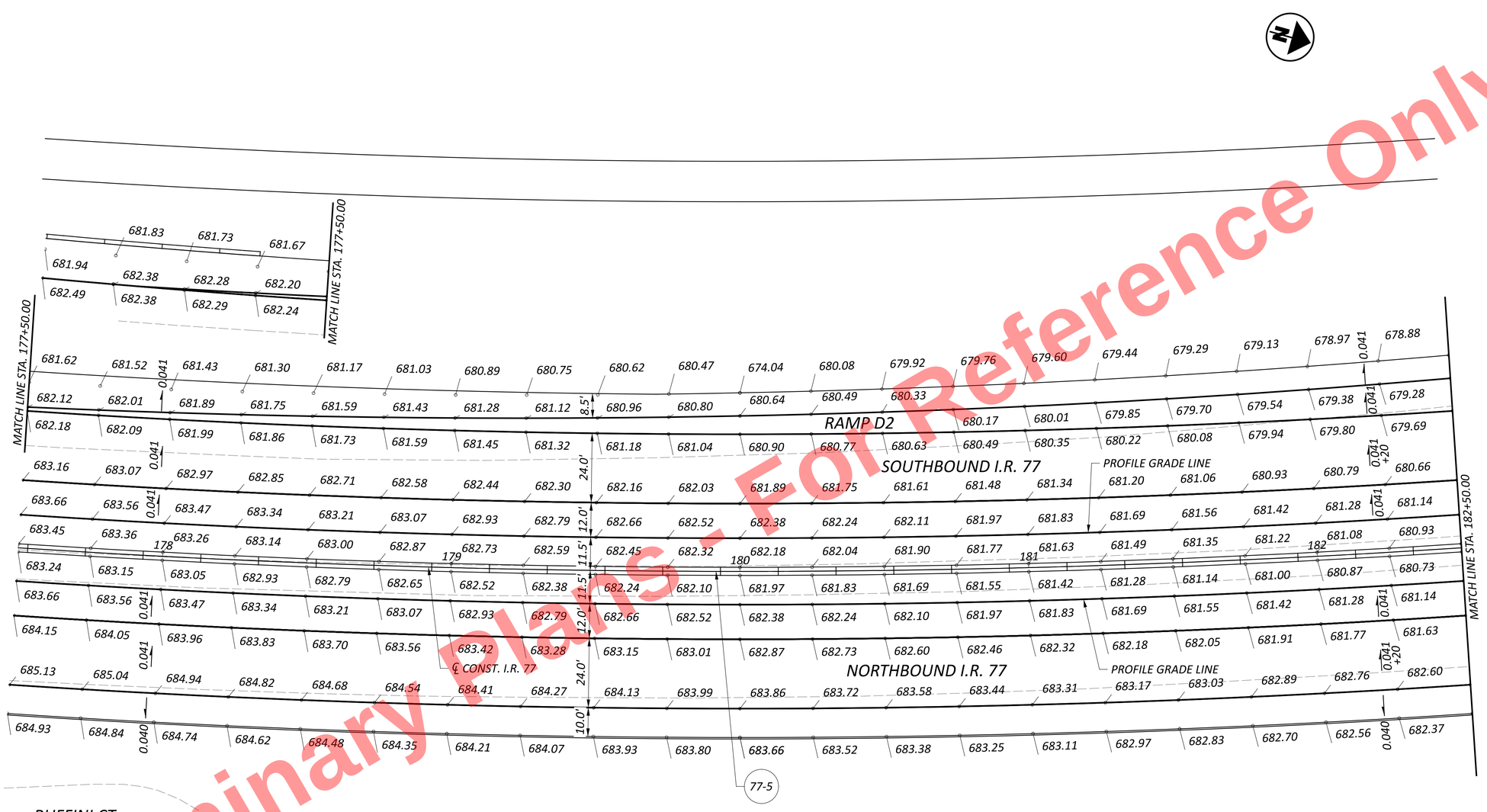


Preliminary Plans - For Reference Only

*CURVE 77-5 DATA*
*P.I. = STA. 179+84.25*
*Δ = 12°17'21" LT*
*Dc = 01°30'00"*
*R = 3,819.72'*
*T = 411.22'*
*L = 819.28'*
*E = 22.07'*

*NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.*

*NOTE: SEE TYPICAL SECTION FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.*

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS I.R. 77

CUY-77-11.41 - PART 1

MODEL: CLP_178 - Plan 4 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:09 PM USER: kperkins
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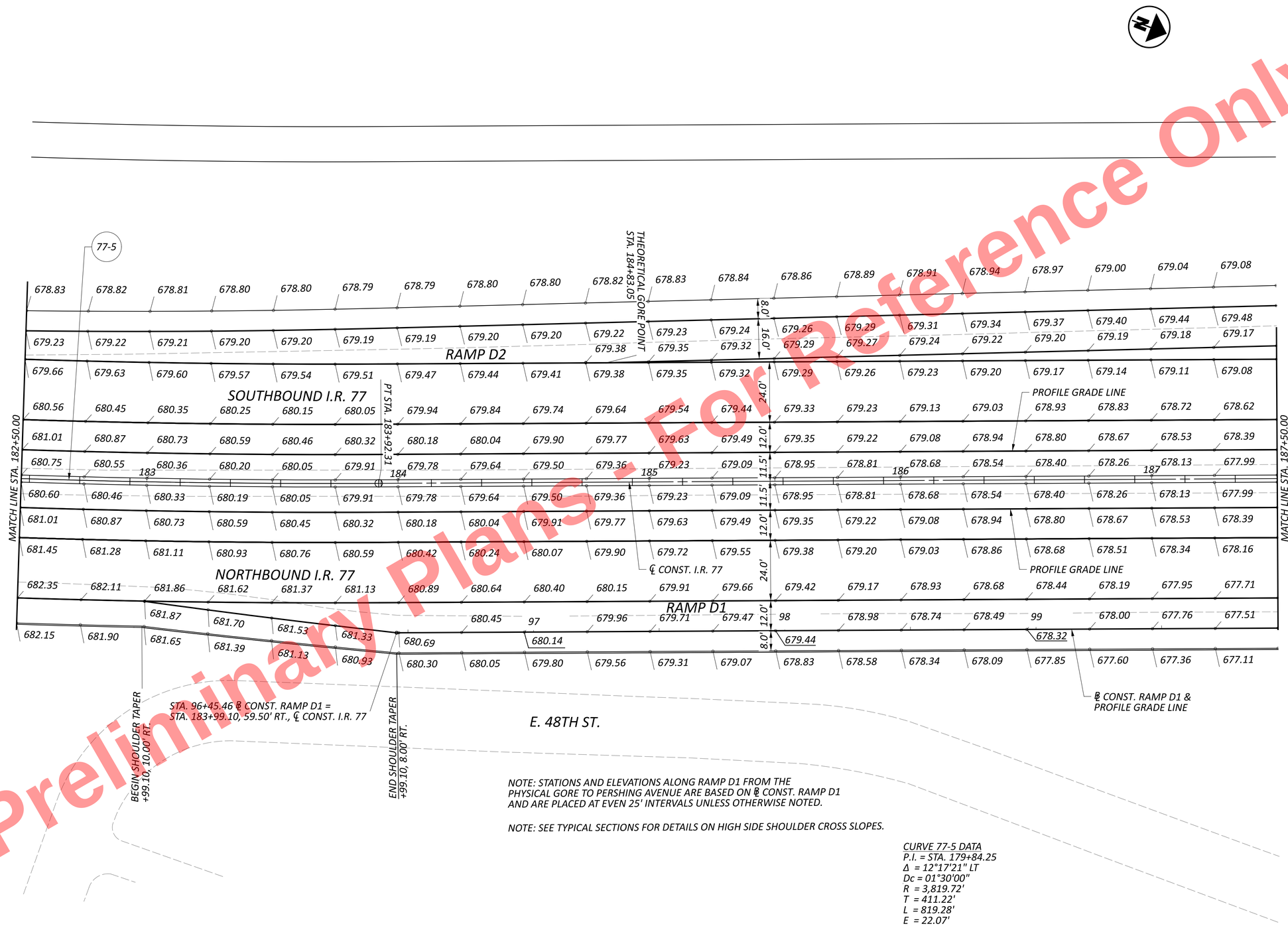
DESIGN AGENCY
HNTB

DESIGNER
XXX

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.637 TOTAL P.1135




Preliminary Plans - For Reference Only

NOTE: STATIONS AND ELEVATIONS ALONG RAMP D1 FROM THE PHYSICAL GORE TO PERSHING AVENUE ARE BASED ON ℘ CONST. RAMP D1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS D1 & D2

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:10 PM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.638 TOTAL P.1135

CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" LT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

CURVE D1-1 DATA
P.I. = STA. 103+02.97
Δ = 23°24'07" LT
Dc = 03°55'00"
R = 1,462.87'
T = 302.97'
L = 597.50'
E = 31.04'




NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP D1 FROM THE PHYSICAL GORE TO PERSHING AVENUE ARE BASED ON ℄ CONST. RAMP D1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMPS D1 & D2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.639 TOTAL P.1135

CUY-77-11.41 - PART 1

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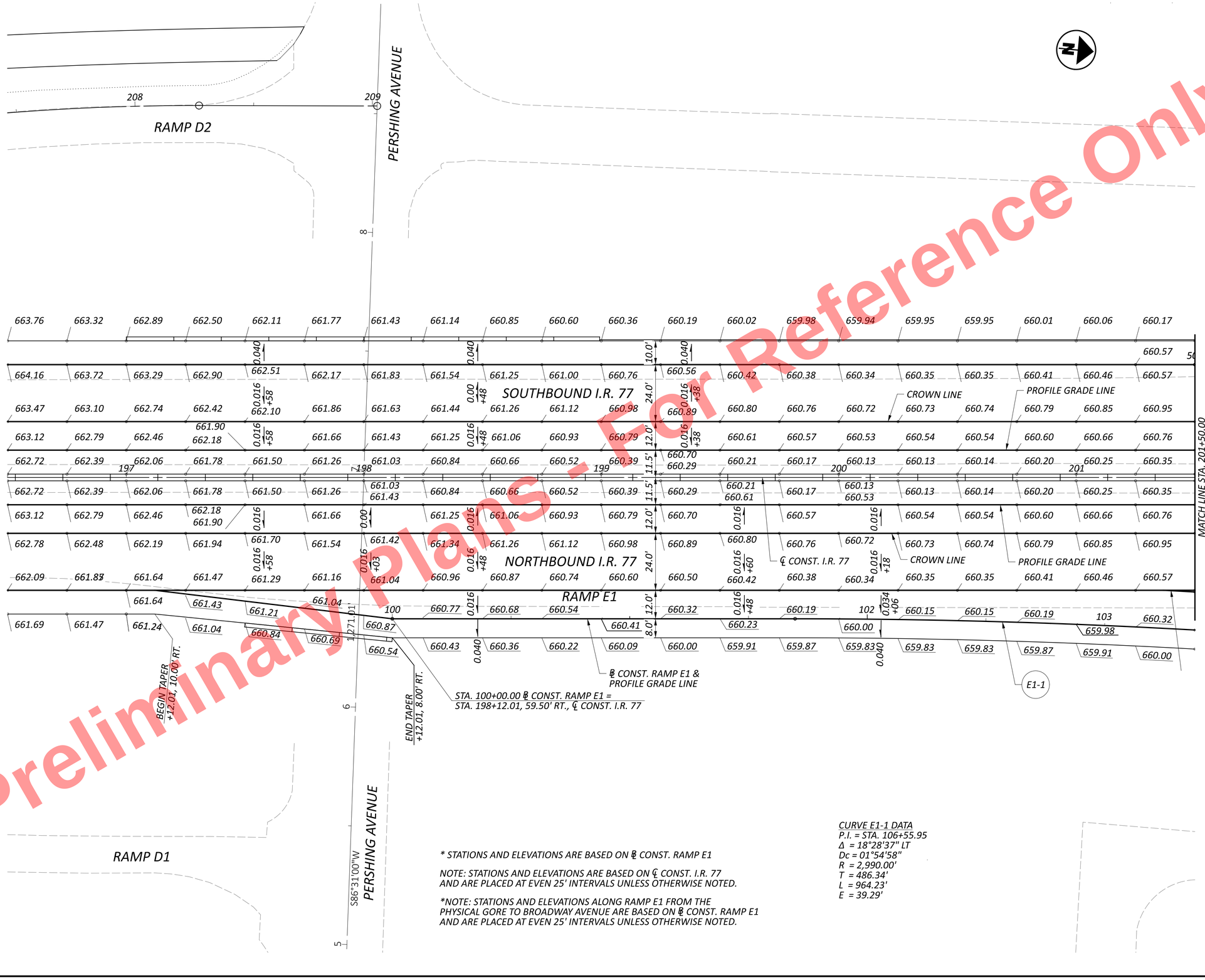


* STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. RAMP E1

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP E1 FROM THE PHYSICAL GORE TO BROADWAY AVENUE ARE BASED ON ℄ CONST. RAMP E1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*CURVE E1-1 DATA*
*P.I. = STA. 106+55.95*
*Δ = 18°28'37" LT*
*Dc = 01°54'58"*
*R = 2,990.00'*
*T = 486.34'*
*L = 964.23'*
*E = 39.29'*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
## RAMP E1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.640 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:13 PM USER: kperkins
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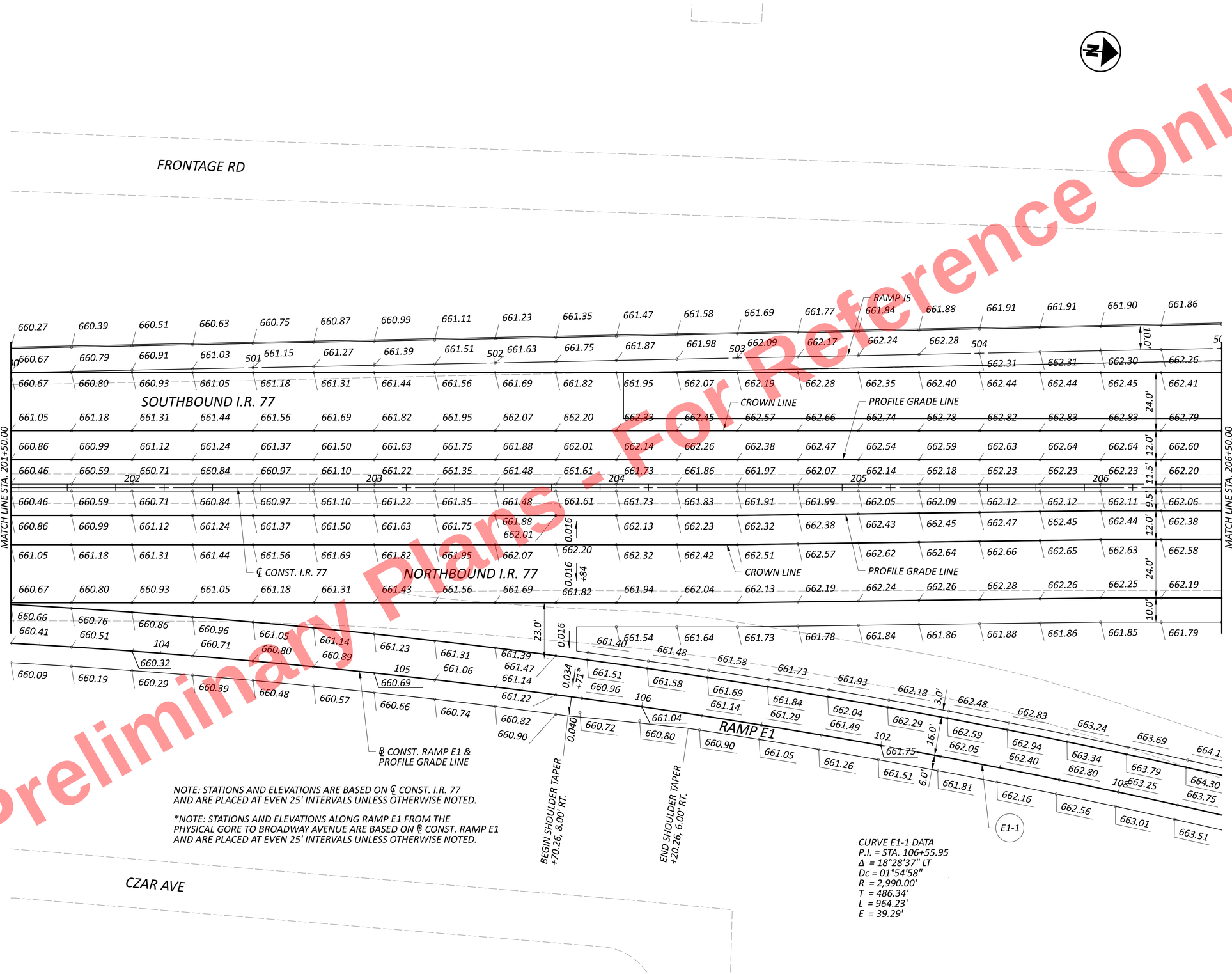


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS
# RAMP E1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.641 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:15 PM USER: kperkins
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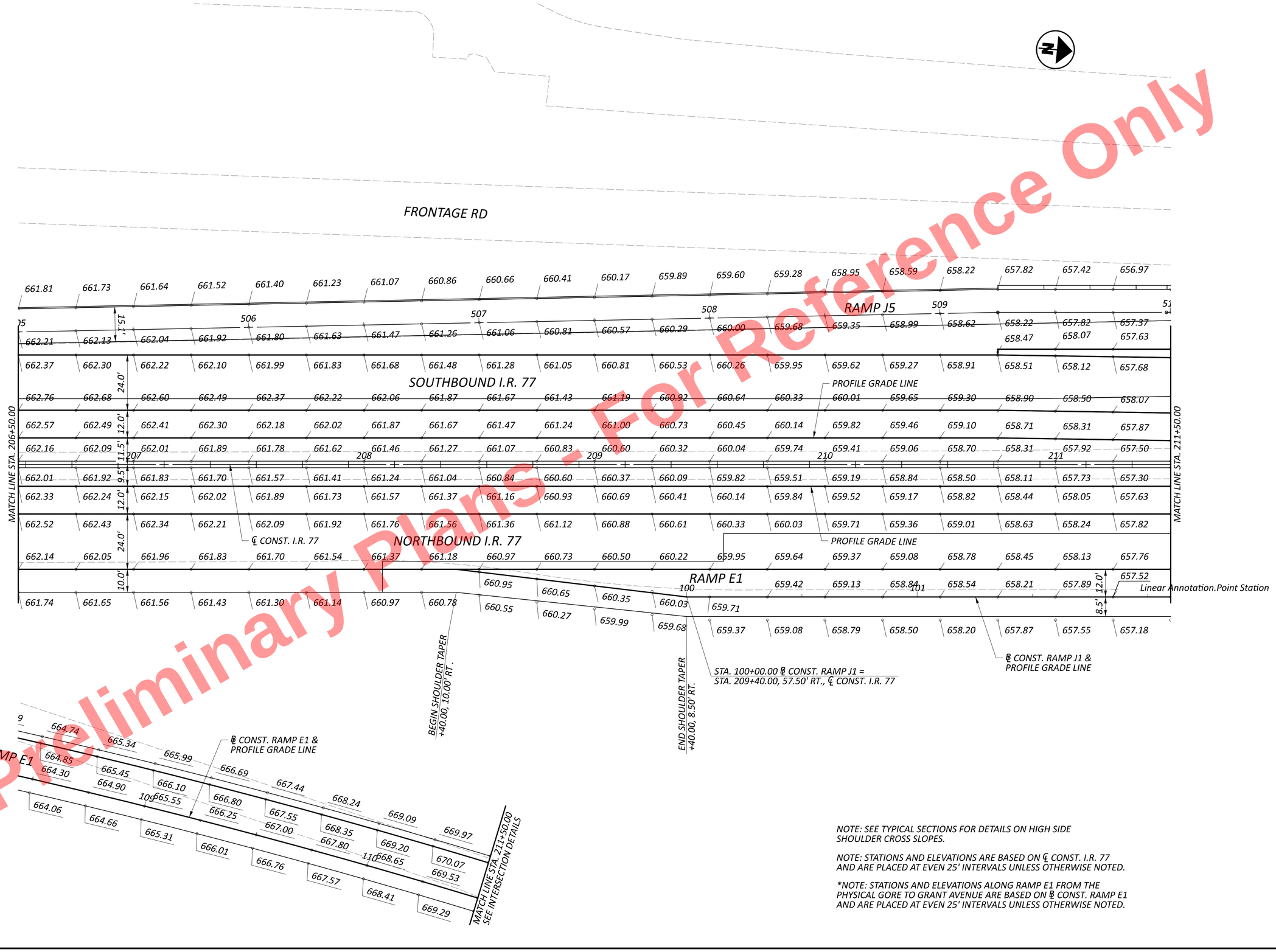


Preliminary Plans - For Reference Only

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP E1 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST. RAMP E1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 10 20 40

# INTERCHANGE DETAILS RAMP E1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.642 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:17 PM USER: kperkins
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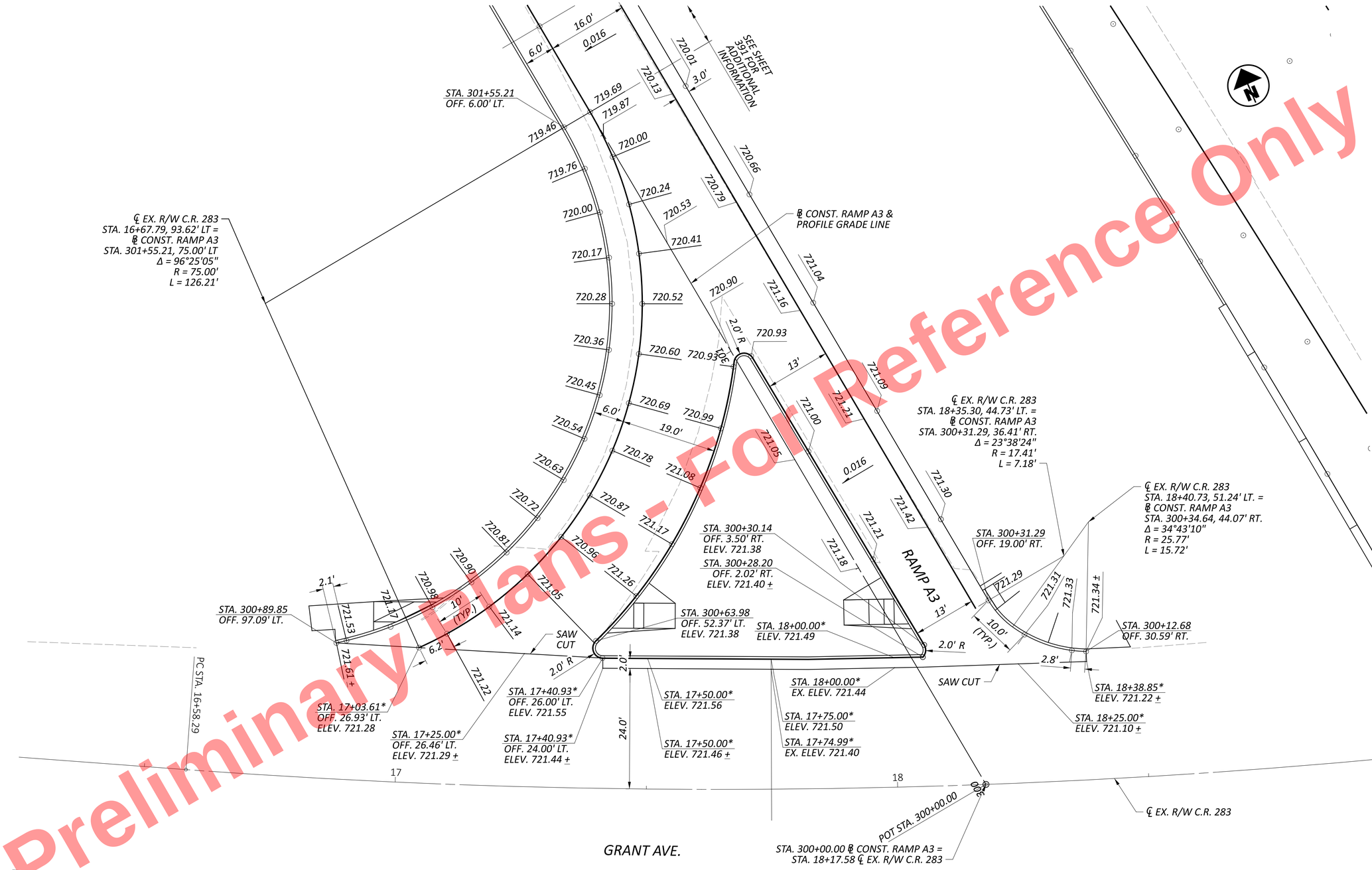


Preliminary Plans - For Reference Only

NOTES:

STATIONS AND ELEVATIONS ARE BASED ON ℘ CONST. RAMP A3
AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURE ADJUSTMENTS AND REPLACEMENTS.

* - BASED ON ℄ EX. R/W C.R. 283

HORIZONTAL SCALE IN FEET
0 5 10 20

# INTERSECTION DETAILS RAMP A3

CUY-77-11.41 - PART 1

MODEL: CIX_RW_C283 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:29 PM USER: kperkins
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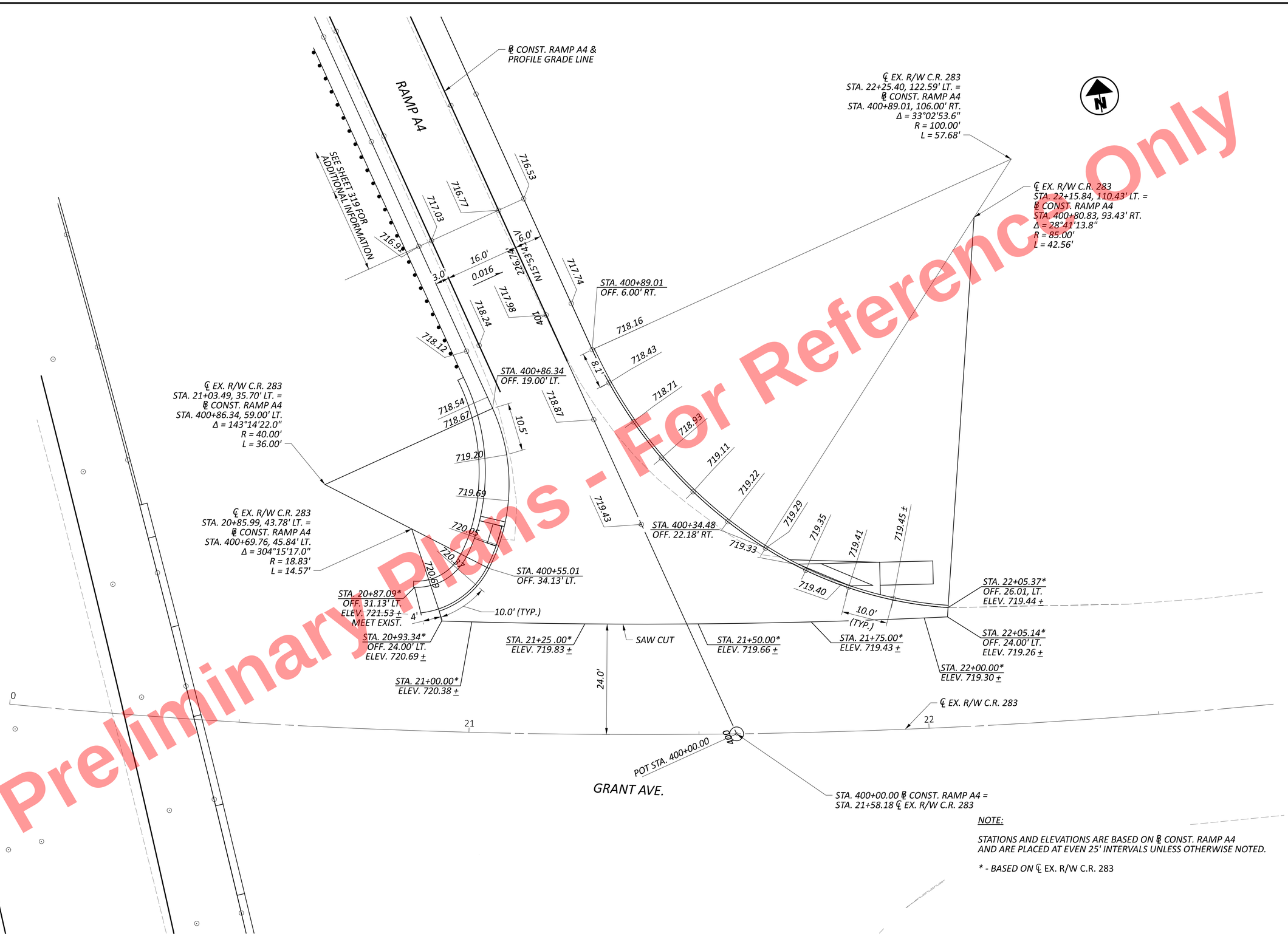
DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.643 TOTAL P.1135




NOTE:

STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. RAMP A4 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BASED ON ℄ EX. R/W C.R. 283

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 5 10 20

# INTERSECTION DETAILS RAMP A4

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | MTD |
| REVIEWER | KKP 05/02/22 |
| PROJECT ID | 105743 |
| SHEET | P.644 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLK_RW_C284 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:30 PM USER: kperkins
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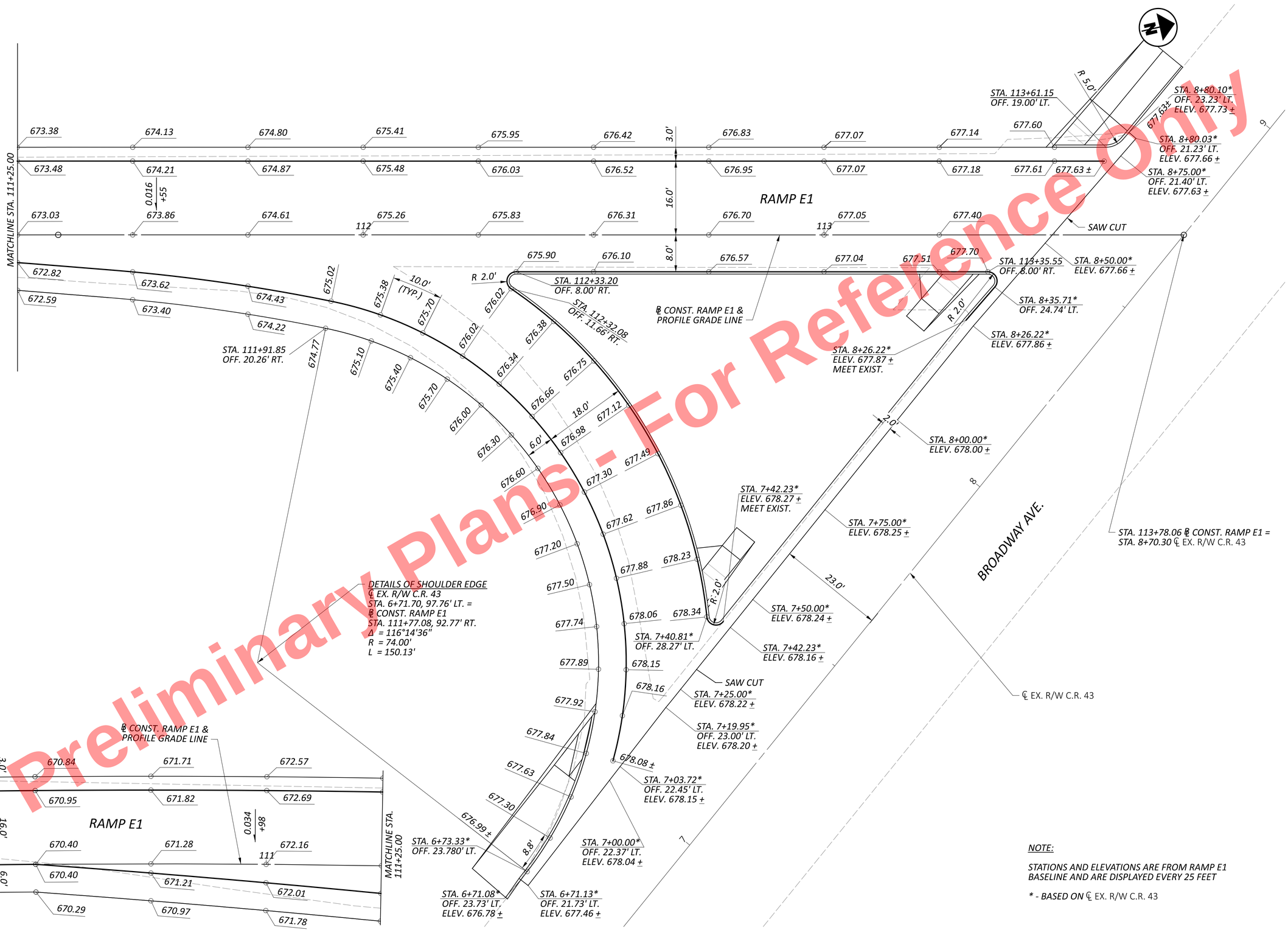


Preliminary Plans - For Reference Only

NOTE:

STATIONS AND ELEVATIONS ARE FROM RAMP E1 BASELINE AND ARE DISPLAYED EVERY 25 FEET

* - BASED ON ℄ EX. R/W C.R. 43

# INTERSECTION DETAILS
## RAMP E1

CUY-77-11.41 - PART 1

MODEL: BLP_R043E1 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:31 PM USER: kperkins
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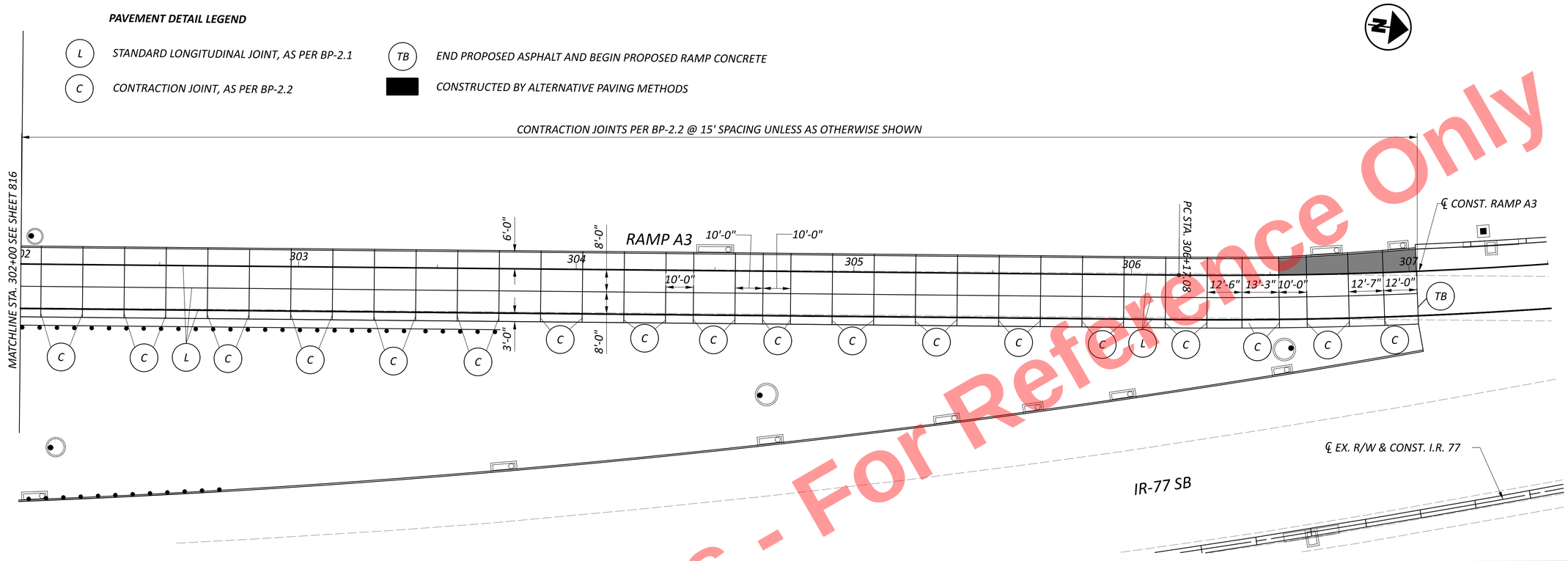
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | MTD |
| REVIEWER | KKP 05/02/22 |
| PROJECT ID | 105743 |
| SHEET | P.645 |
| TOTAL | P.1135 |

**PAVEMENT DETAIL LEGEND**

| | |
|---|---|
| L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1 | TB — END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE |
| C — CONTRACTION JOINT, AS PER BP-2.2 | CONSTRUCTED BY ALTERNATIVE PAVING METHODS |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PAVEMENT JOINT DETAILS RAMPS A3 & A4

CUY-77-11.41 - PART 1

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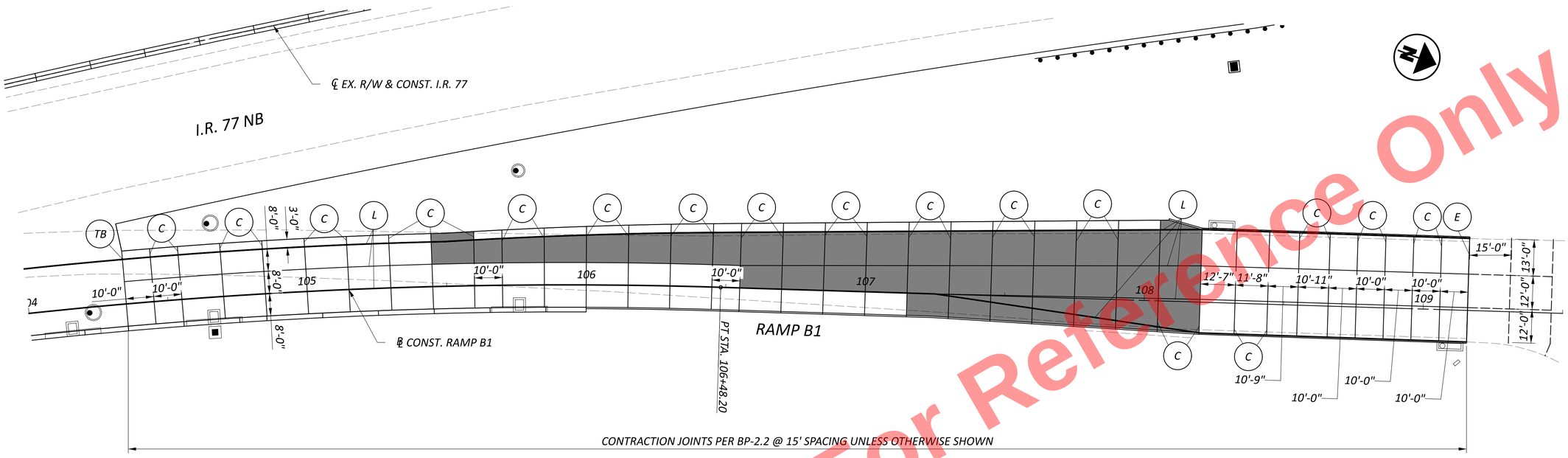
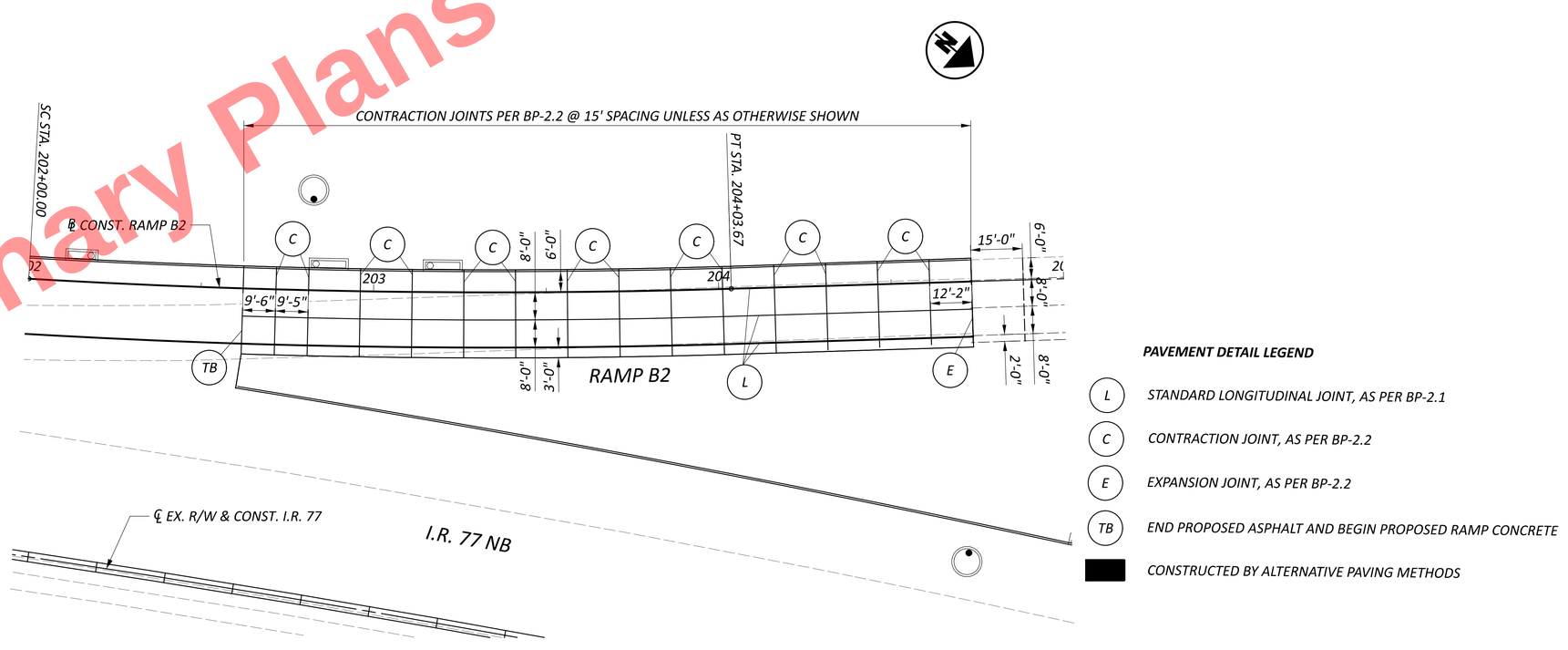
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 07/23/24 |
| PROJECT ID | 105743 |
| SHEET / TOTAL | P.646 / P.1135 |




**PAVEMENT DETAIL LEGEND**

- L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- C — CONTRACTION JOINT, AS PER BP-2.2
- E — EXPANSION JOINT, AS PER BP-2.2
- TB — END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PAVEMENT JOINT DETAILS RAMPS B1 & B2

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.647 TOTAL P.1135

CUY-77-11.41 - PART 1

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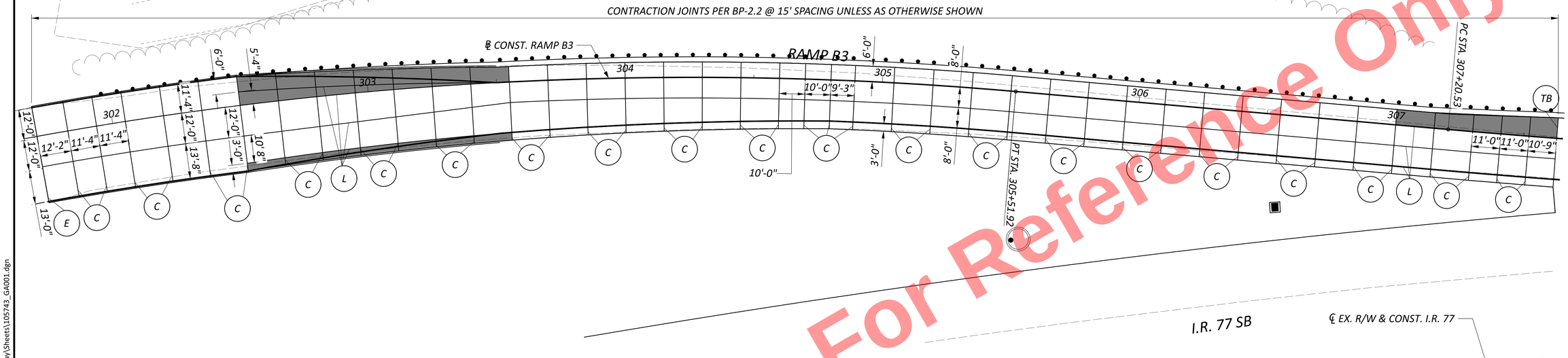
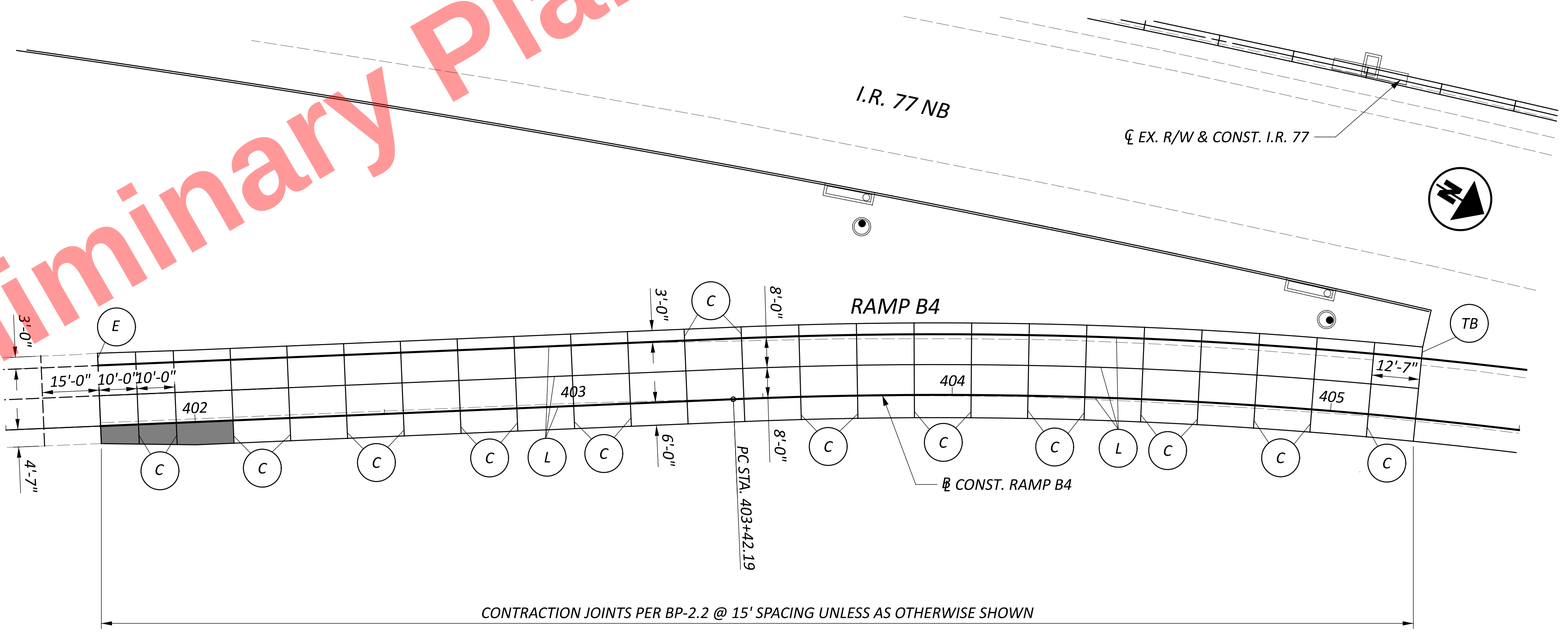
**PAVEMENT DETAIL LEGEND**

- L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- C — CONTRACTION JOINT, AS PER BP-2.2
- E — EXPANSION JOINT, AS PER BP-2.2
- TB — END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PAVEMENT JOINT DETAILS RAMPS B3 & B4

CUY-77-11.41 - PART 1

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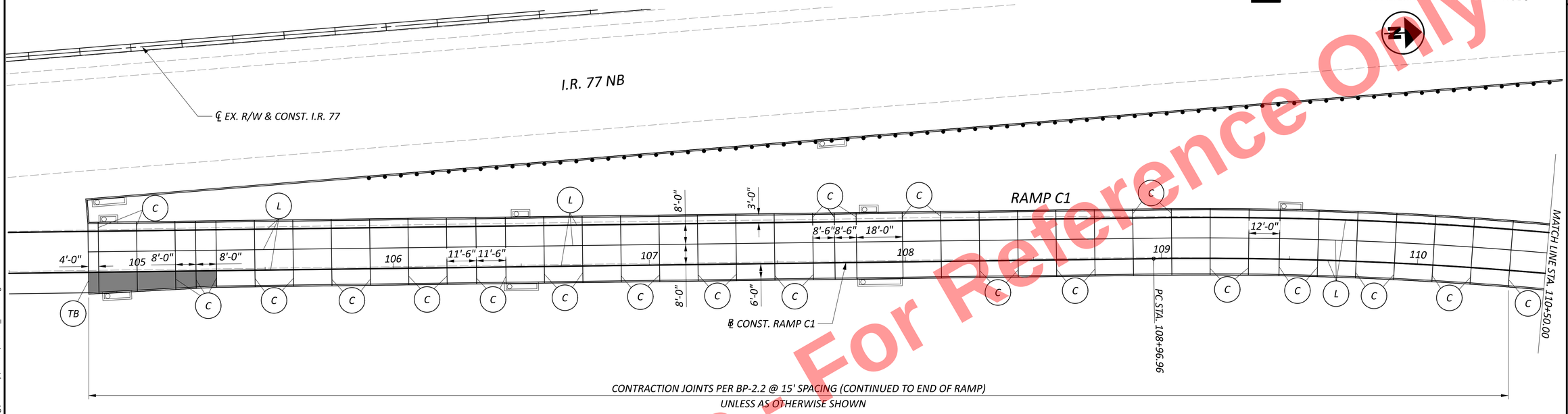
DESIGN AGENCY
HNTB

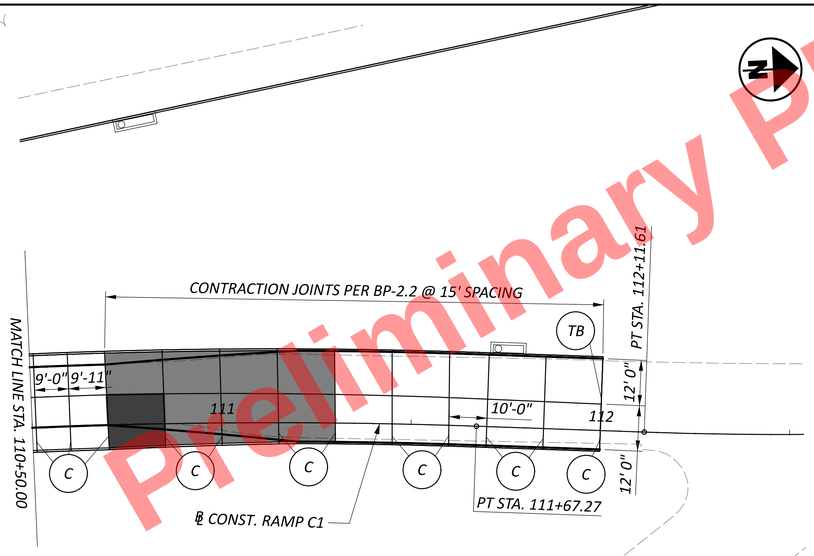
DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.648 | TOTAL P.1135

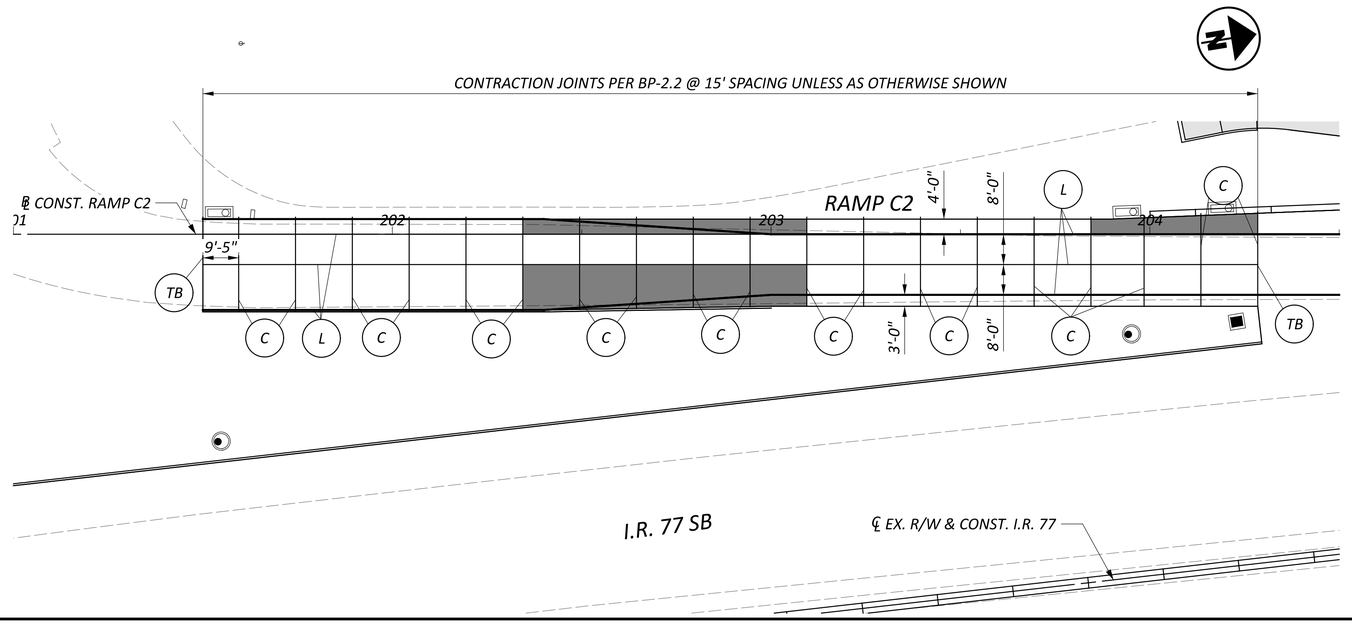
**PAVEMENT DETAIL LEGEND**

- L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- C — CONTRACTION JOINT, AS PER BP-2.2
- E — EXPANSION JOINT, AS PER BP-2.2
- TB — END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40




Preliminary Plans - For Reference Only

# PAVEMENT JOINT DETAILS RAMPS C1 & C2

DESIGN AGENCY: HNTB

DESIGNER: SJT
REVIEWER: KKP 07/23/24
PROJECT ID: 105743
SHEET: P.649 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - C1-C2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:45 PM USER: kperkins
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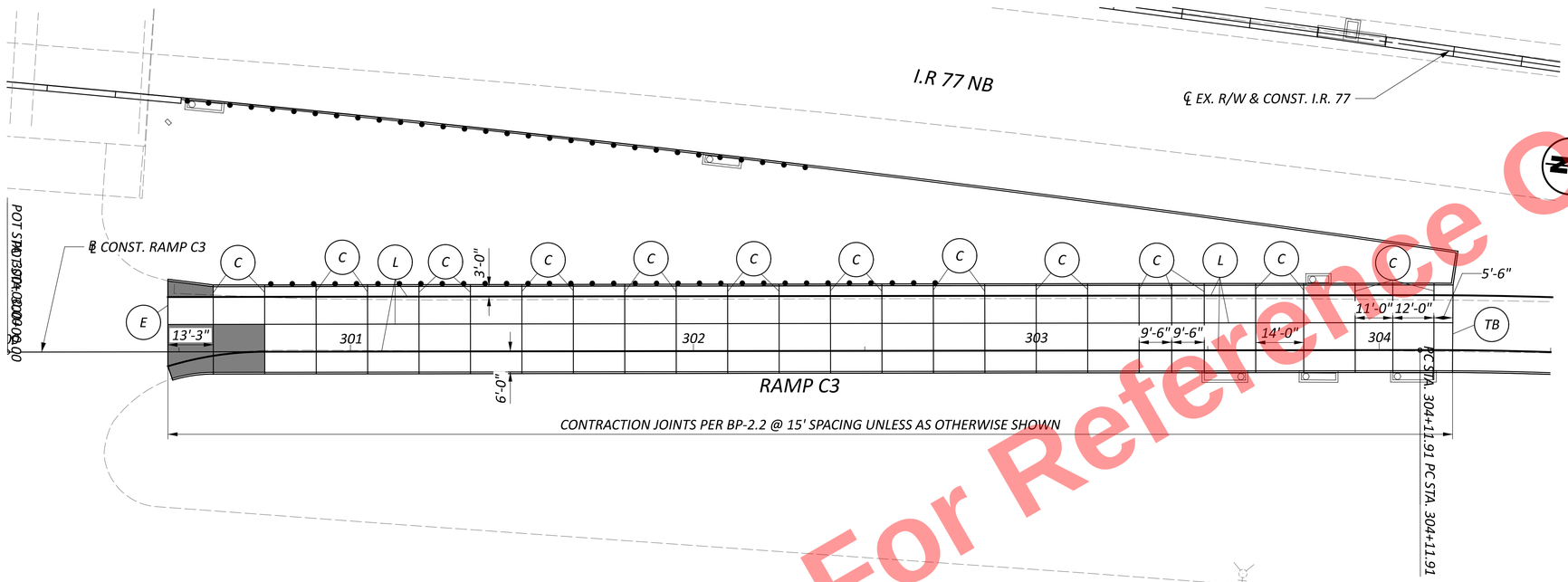


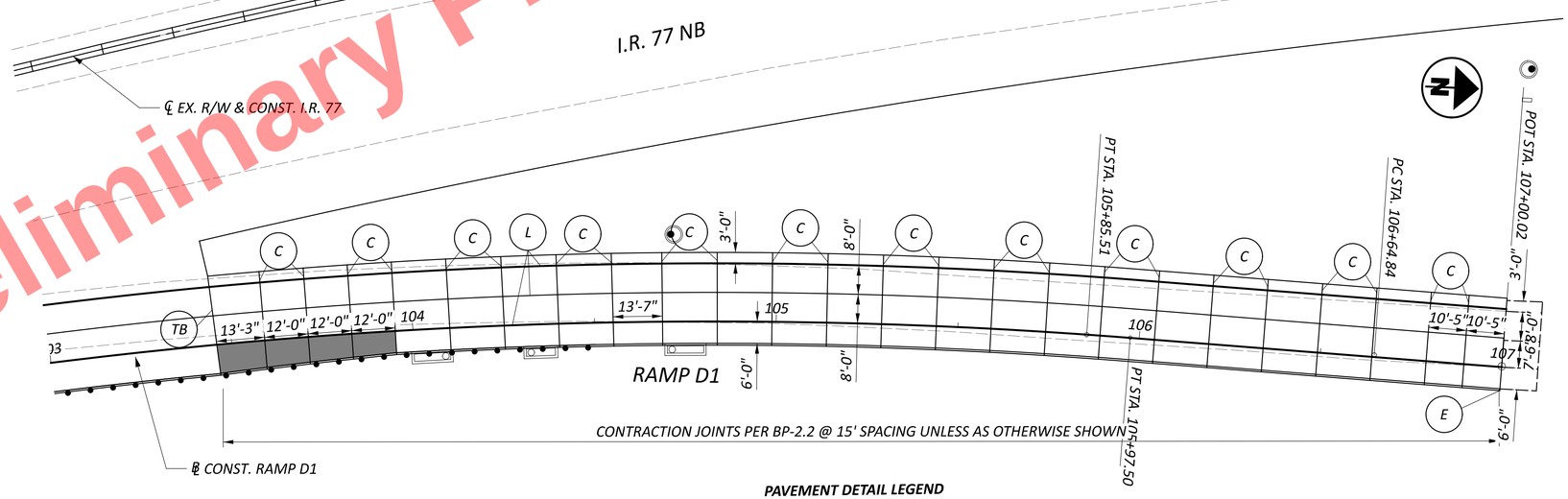


**PAVEMENT DETAIL LEGEND**

| | | | |
|---|---|---|---|
| L | STANDARD LONGITUDINAL JOINT, AS PER BP-2.1 | E | EXPANSION JOINT, AS PER BP-2.2 |
| C | CONTRACTION JOINT, AS PER BP-2.2 | TB | END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE |
| | | | CONSTRUCTED BY ALTERNATIVE PAVING METHODS |

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PAVEMENT JOINT DETAILS RAMPS C3 & D1

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 07/23/24 |
| PROJECT ID | 105743 |
| SHEET | P.650 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - C3-D1 [Sheet] PAPERSIZE: 34x22 [in.] DATE: 11/20/2025 TIME: 1:29:46 PM USER: kperkins
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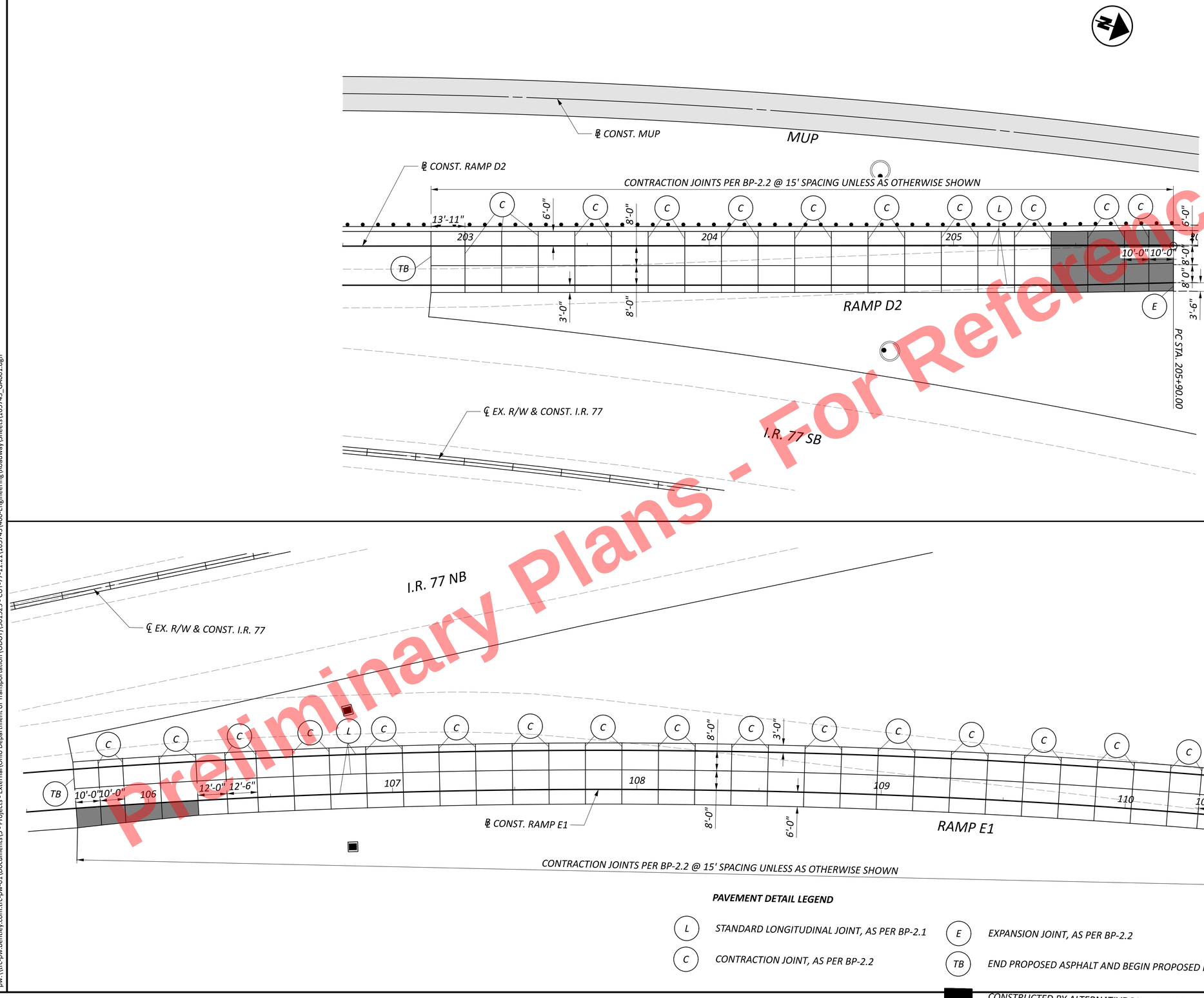


**PAVEMENT DETAIL LEGEND**

- L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- C — CONTRACTION JOINT, AS PER BP-2.2
- E — EXPANSION JOINT, AS PER BP-2.2
- TB — END PROPOSED ASPHALT AND BEGIN PROPOSED RAMP CONCRETE
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# PAVEMENT JOINT DETAILS RAMPS D2 & E1

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.651 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - D2:E1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:48 PM USER: kperkins
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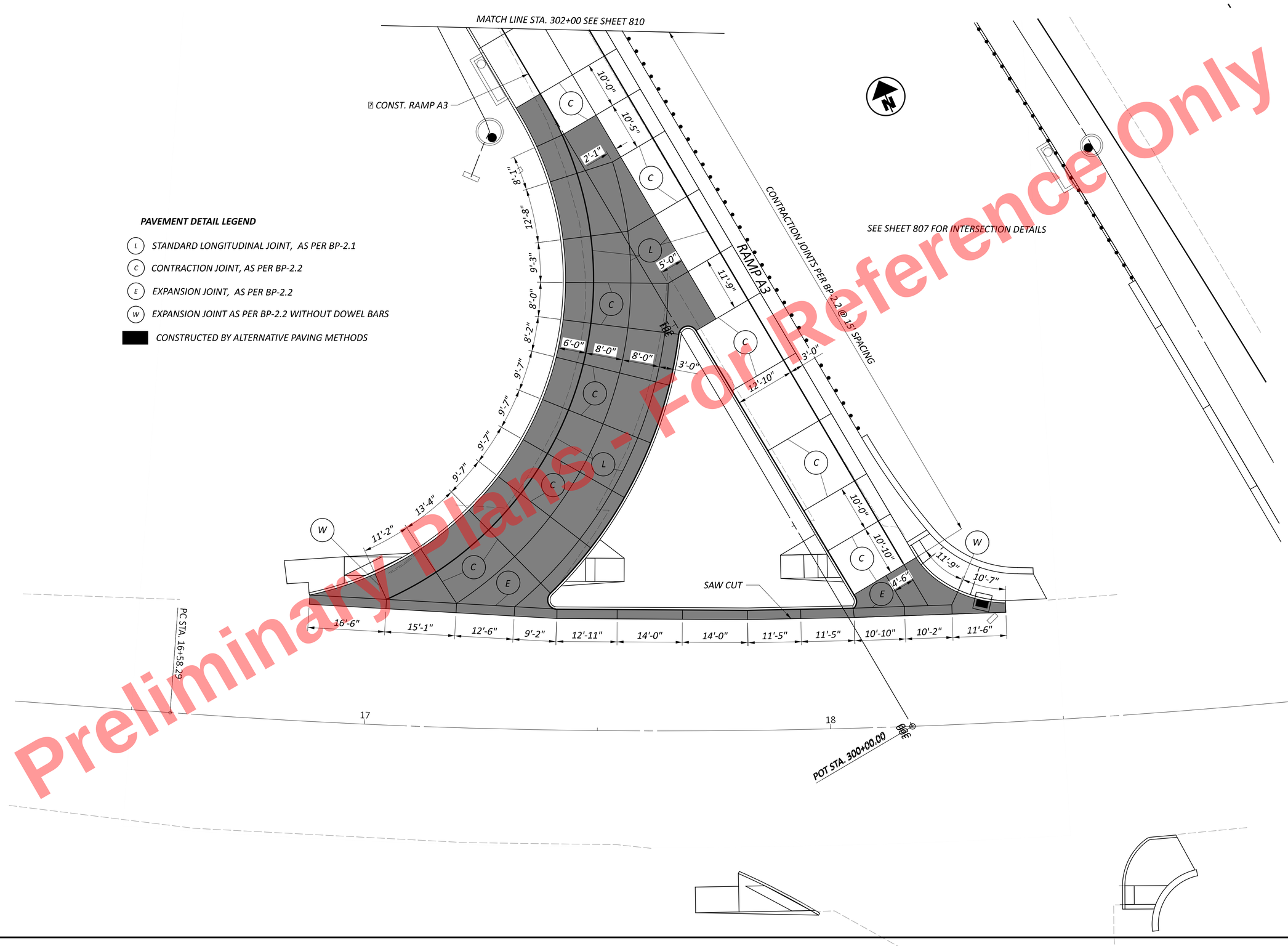


Preliminary Plans - For Reference Only

***PAVEMENT DETAIL LEGEND***

- (L) *STANDARD LONGITUDINAL JOINT, AS PER BP-2.1*
- (C) *CONTRACTION JOINT, AS PER BP-2.2*
- (E) *EXPANSION JOINT, AS PER BP-2.2*
- (W) *EXPANSION JOINT AS PER BP-2.2 WITHOUT DOWEL BARS*
- *CONSTRUCTED BY ALTERNATIVE PAVING METHODS*

HORIZONTAL SCALE IN FEET
0 2.5 5 10

# PAVEMENT JOINT DETAILS RAMP A3

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.652 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLX_RW_C286 - Ramp A3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:58 PM USER: kperkins
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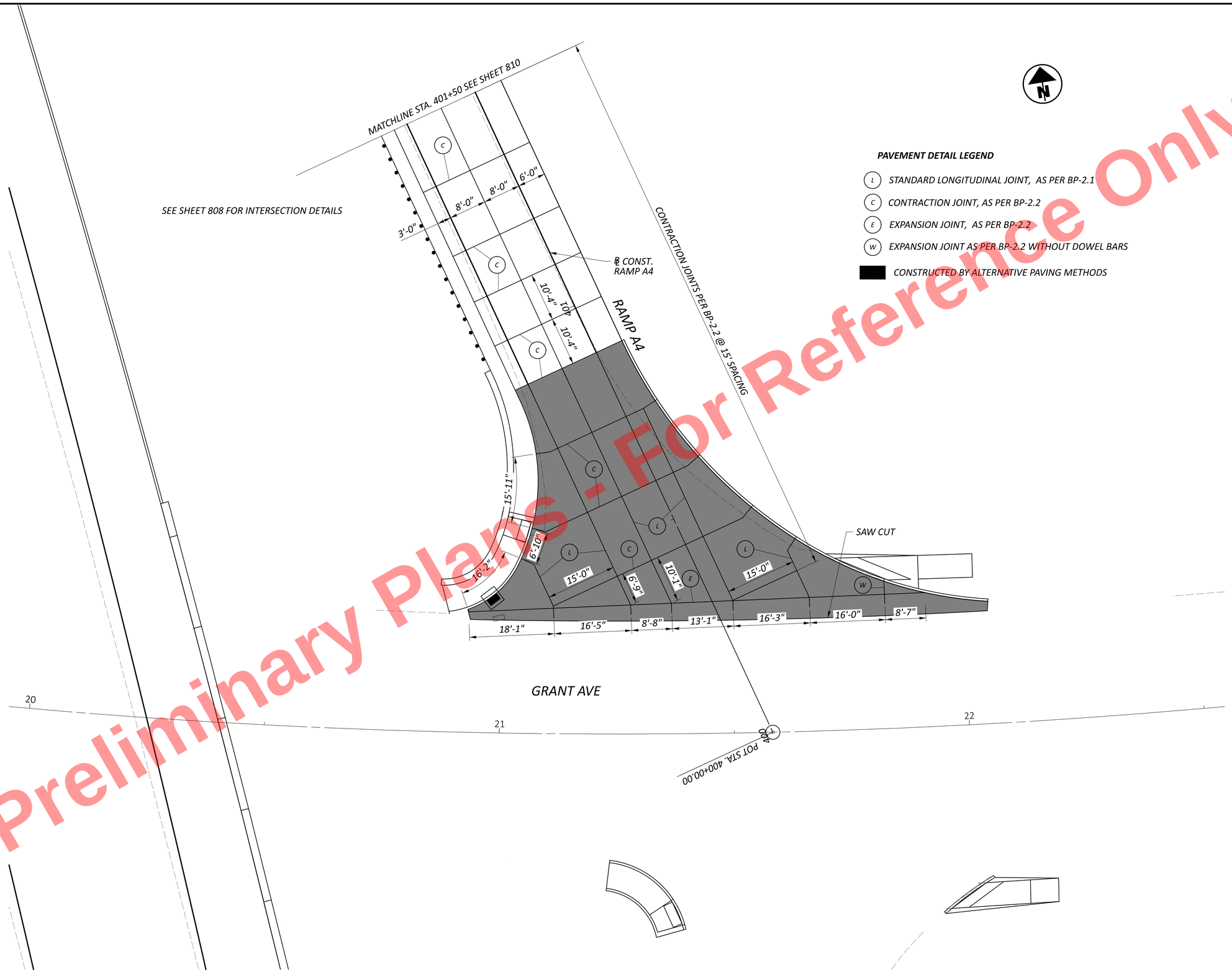


For Reference Only
Preliminary Plans - Not for Construction

# PAVEMENT JOINT DETAILS RAMP A4

CUY-77-11.41 - PART 1

MODEL: CLX_RW_C283 - Ramp A4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:58 PM USER: kperkins
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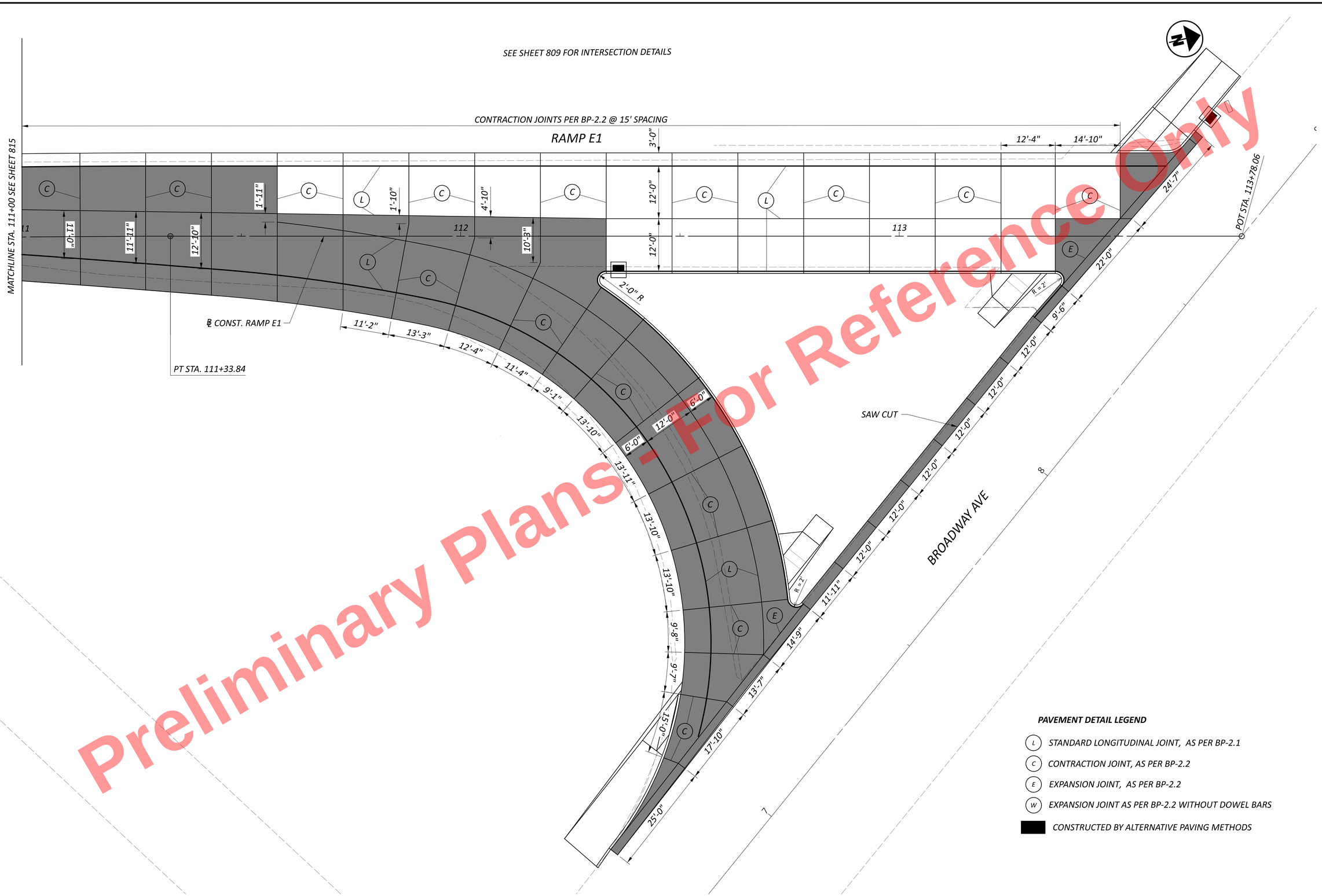
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 07/23/24 |
| PROJECT ID | 105743 |
| SHEET | P.653 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 2.5 5 10

# PAVEMENT JOINT DETAILS RAMP E1

CUY-77-11.41 - PART 1

MODEL: BLX_R043E1 - Ramp E1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:29:59 PM USER: kperkins
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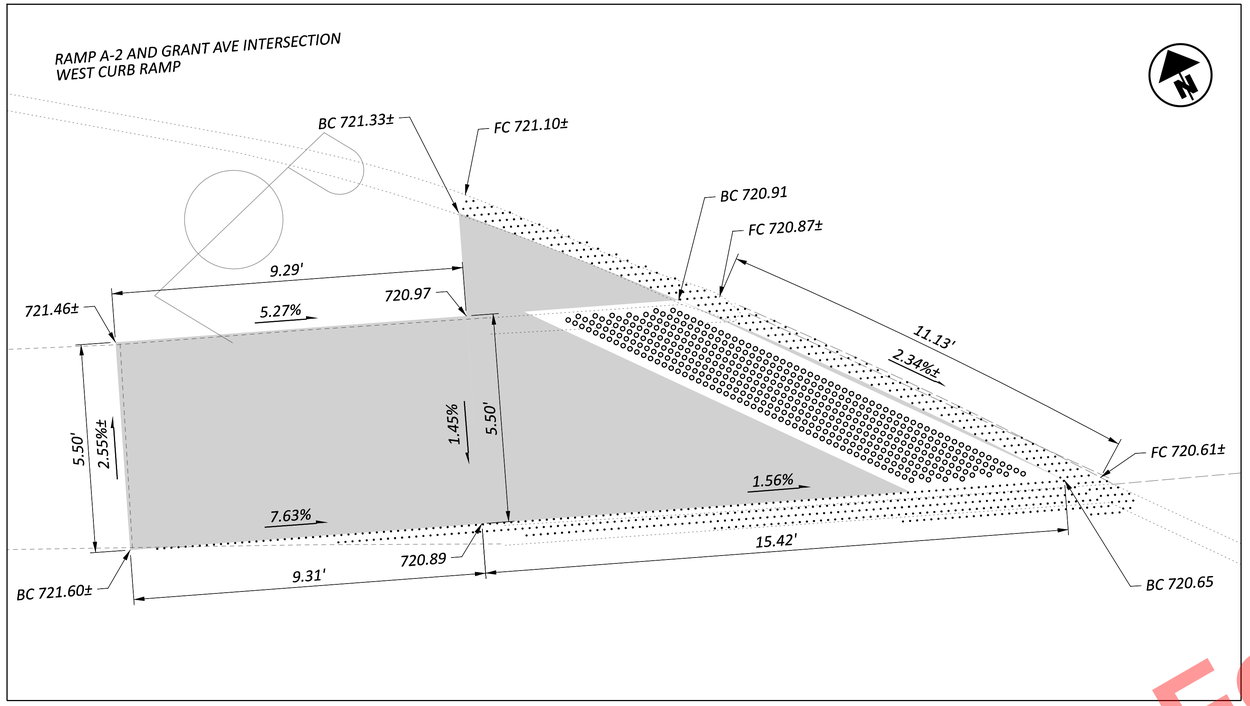
DESIGN AGENCY
HNTB

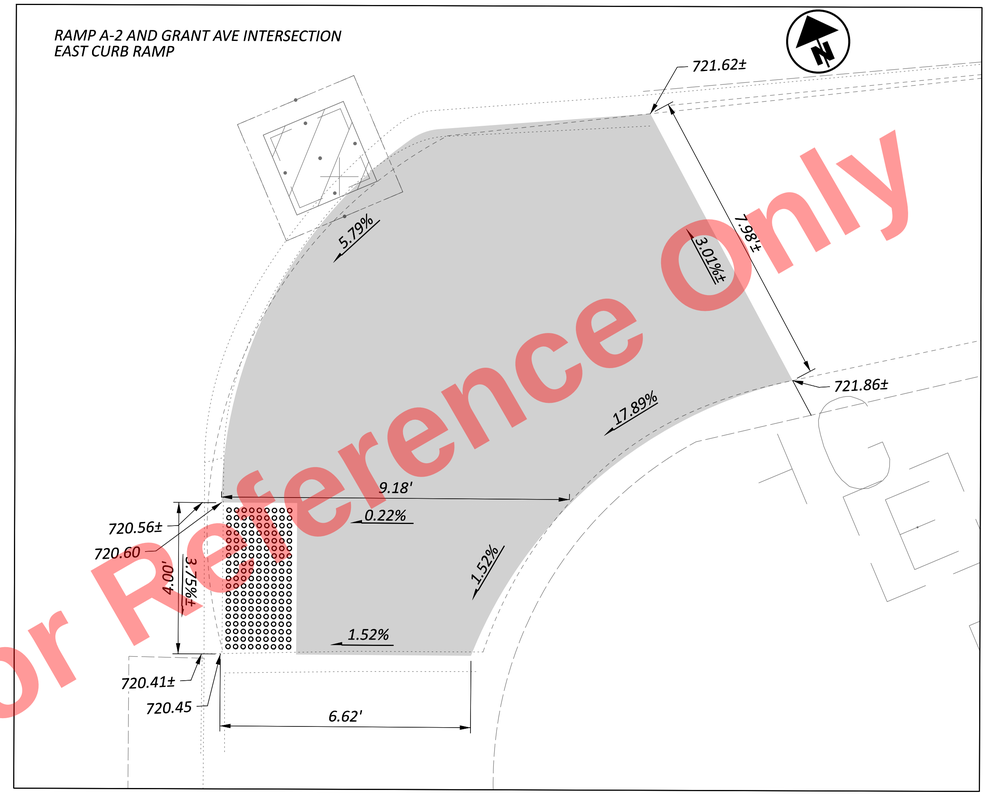
| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 07/23/24 |
| PROJECT ID | 105743 |
| SHEET | P.654 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only

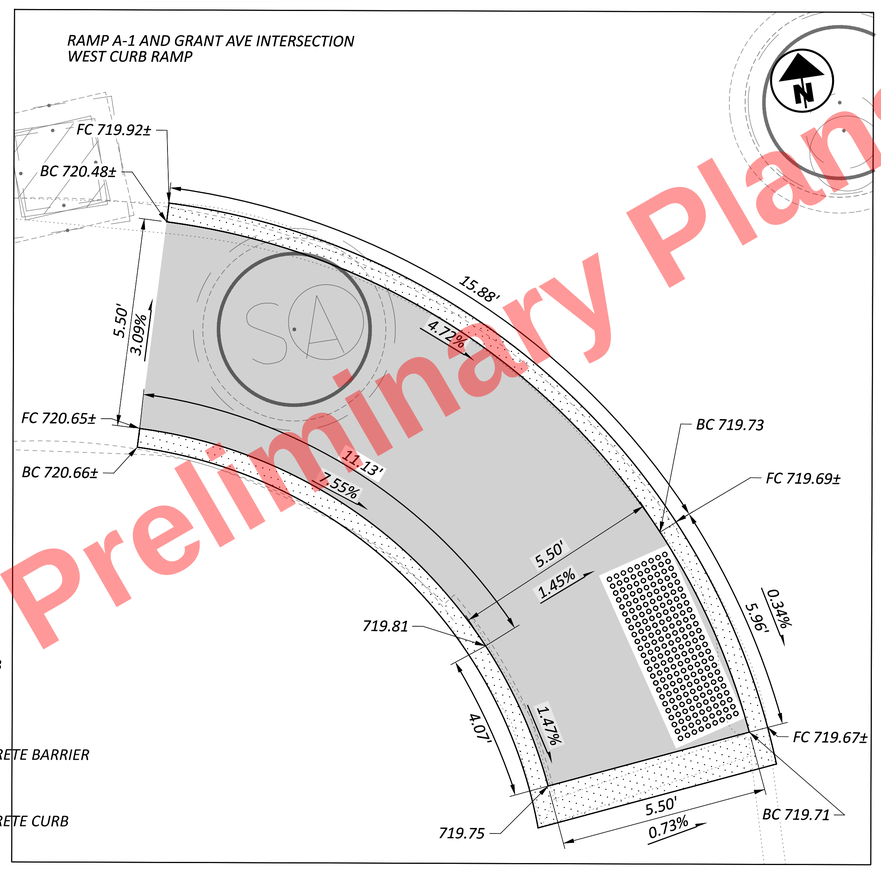
RAMP A-2 AND GRANT AVE INTERSECTION
WEST CURB RAMP



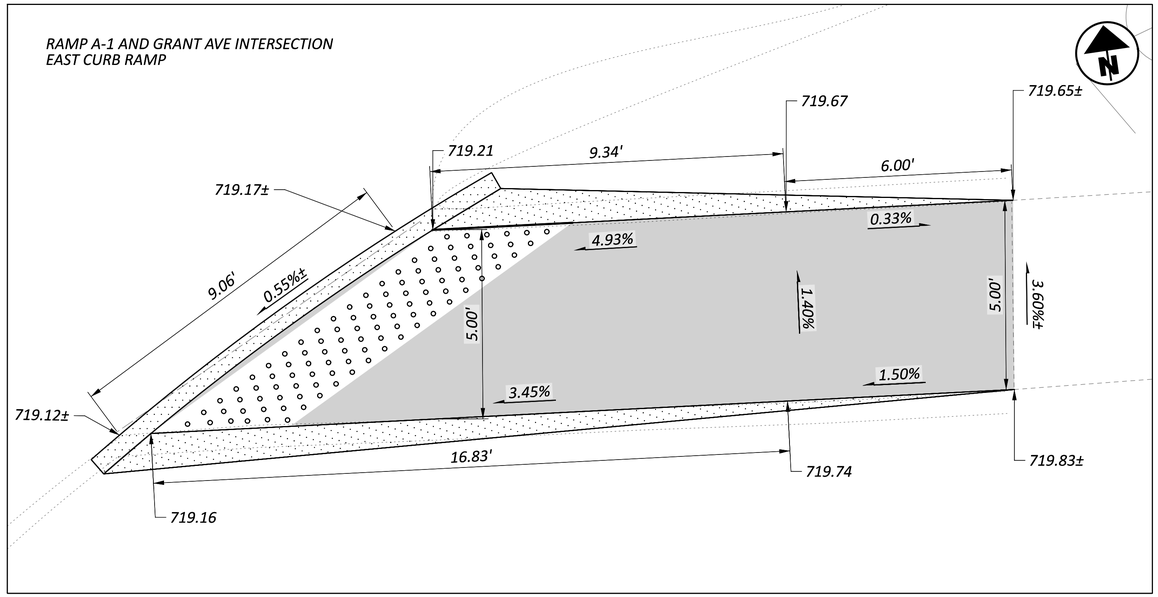

RAMP A-2 AND GRANT AVE INTERSECTION
EAST CURB RAMP




RAMP A-1 AND GRANT AVE INTERSECTION
WEST CURB RAMP




RAMP A-1 AND GRANT AVE INTERSECTION
EAST CURB RAMP




LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

# CURB RAMP DETAILS
# GRANT AVENUE

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | EIO |
| REVIEWER | KKP 07/24/24 |
| PROJECT ID | 105743 |
| SHEET | P.655 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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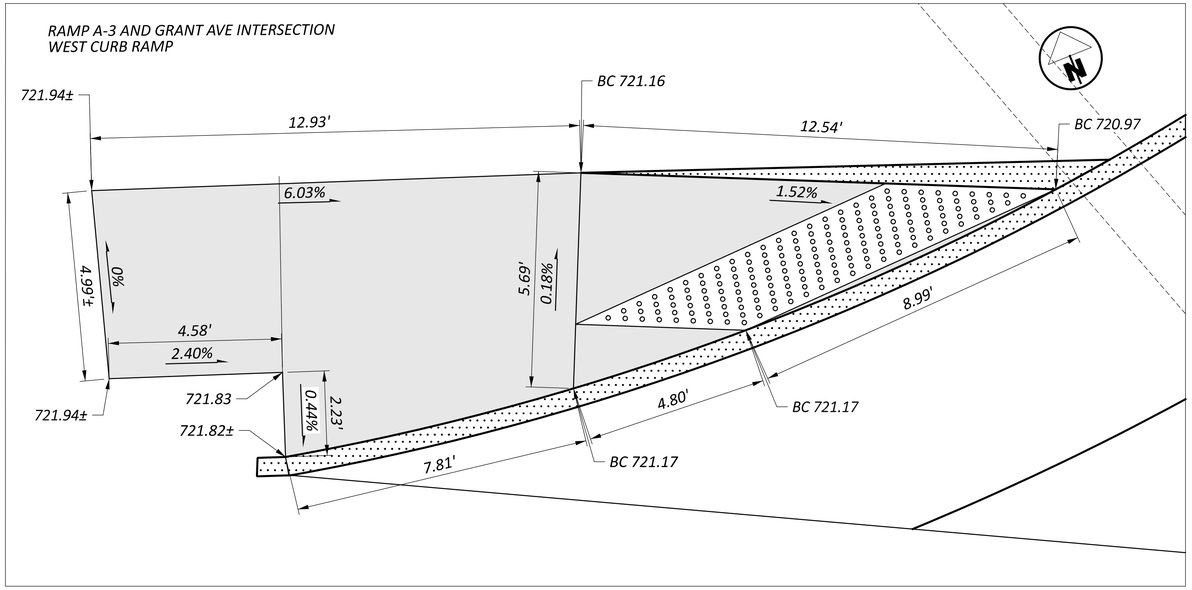


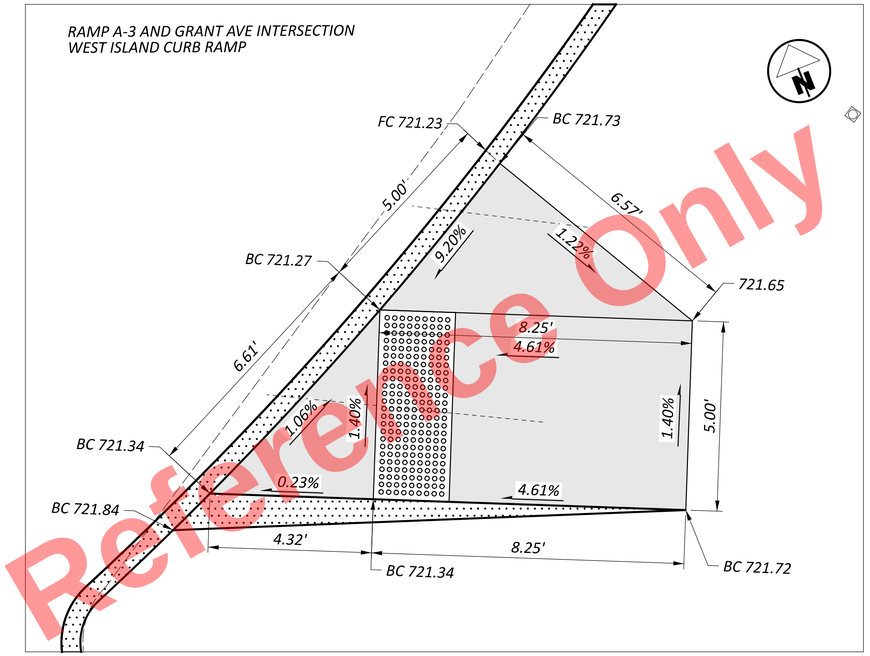


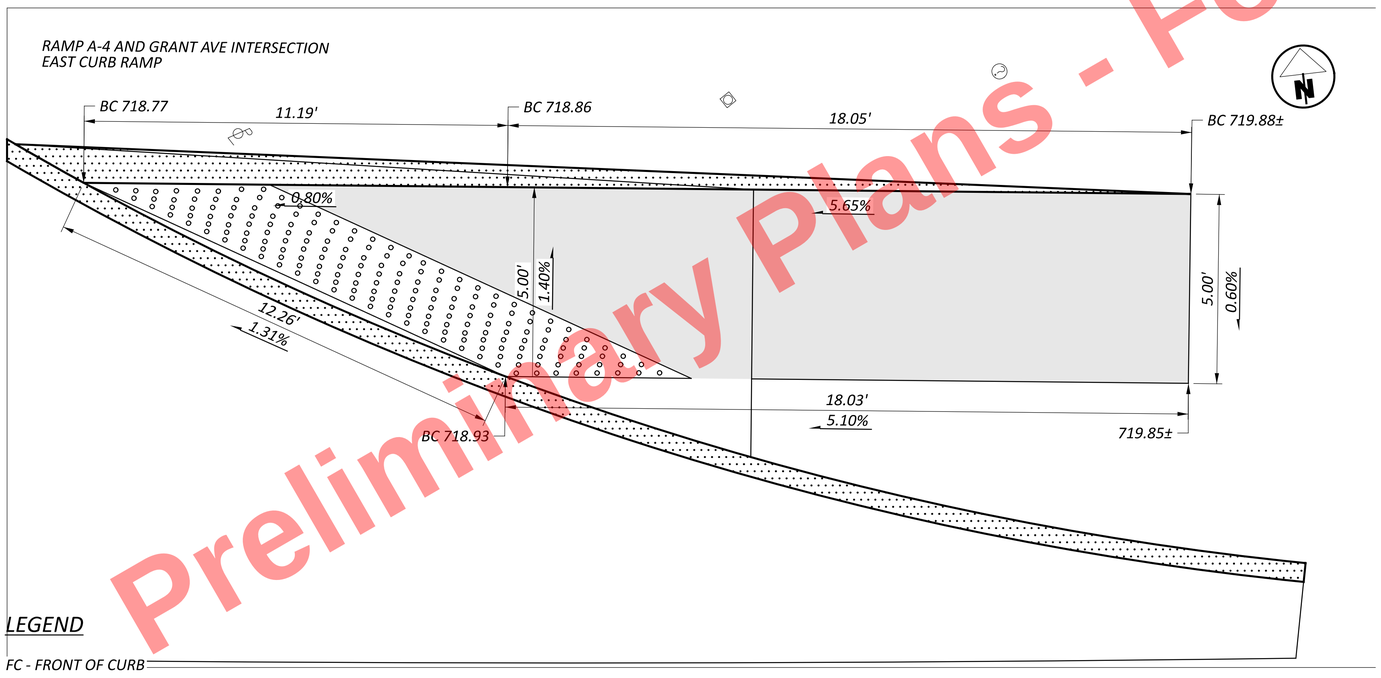


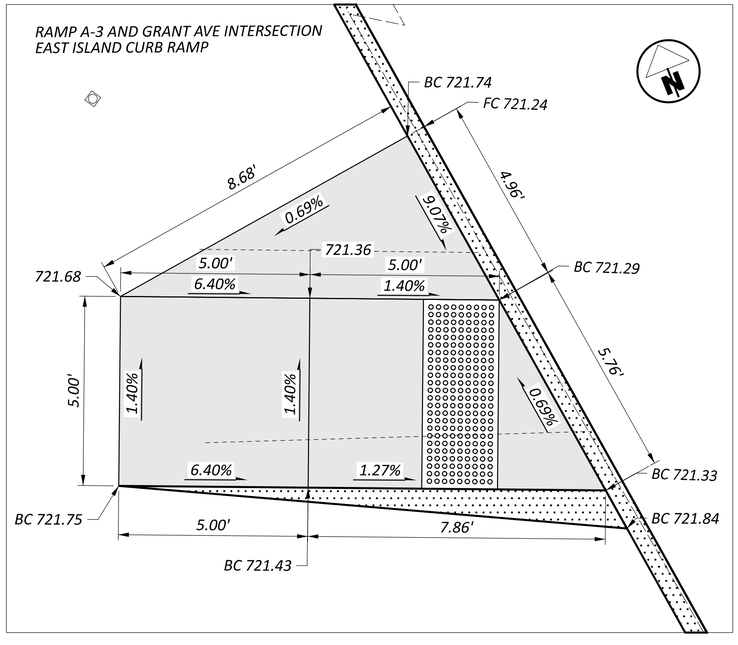


LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 1 2 4

# CURB RAMP DETAILS
# GRANT AVENUE

DESIGN AGENCY

HNTB

DESIGNER SJT

REVIEWER KKP 07/14/25

PROJECT ID 105743

SHEET P.656 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CURB RAMPS - GRANT 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:30:24 PM USER: kperkins
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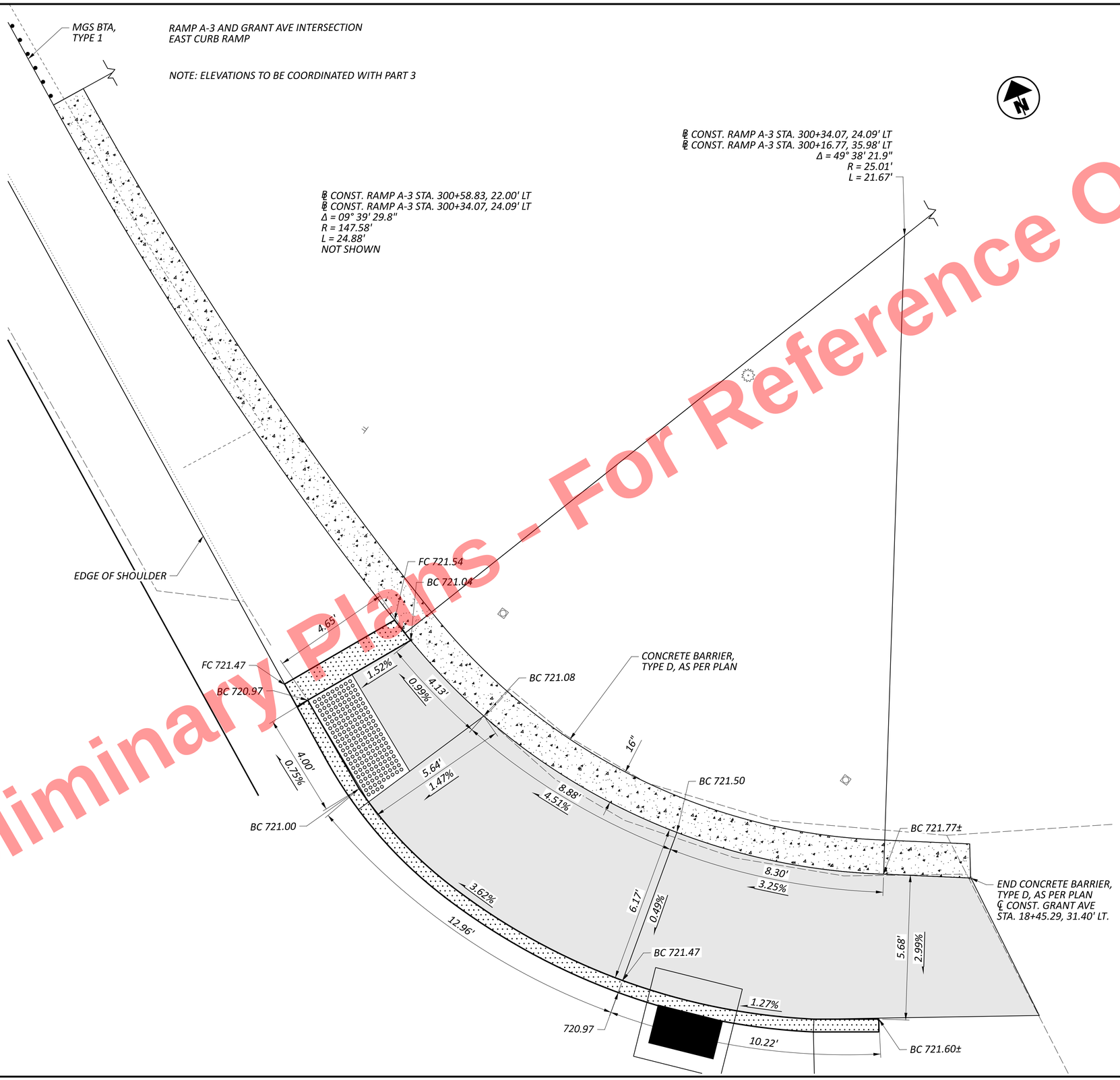


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS
GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.657 TOTAL P.1135

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

END CONCRETE BARRIER, TYPE D, AS PER PLAN
℄ CONST. GRANT AVE
STA. 20+86.82, 31.13' LT

℄ CONST. RAMP A-4 STA. 400+58.08, 50.76' LT
℄ CONST. RAMP A-4 STA. 400+59.31, 37.55' LT
Δ = 66° 56' 33.9"
R = 10.81'
L = 12.64'

℄ CONST. RAMP A-4 STA. 400+59.31, 37.55' LT
℄ CONST. RAMP A-4 STA. 400+66.90, 32.13' LT
Δ = 15° 40' 46.6"
R = 33.17'
L = 9.08'
NOT SHOWN

℄ CONST. RAMP A-4 STA. 400+66.10, 31.05' LT
℄ CONST. RAMP A-4 STA. 400+95.09, 22.00' LT
Δ = 39° 29' 43.2"
R = 45.19'
L = 31.15'
NOT SHOWN

BC 721.63 ±
5.80'±
BC 721.60±
FC 721.10±
0.54%
18.41'
7.55%
6.12%
23.12'
BC 720.24
BC 720.18
FC 720.68
4.01'
1.50%
5.00'
1.40%
1.40%
5.00'
4.60'
1.30%
BC 720.17
FC 720.61
BC 720.11
CONCRETE BARRIER, TYPE D, AS PER PLAN
16"
MGS BTA, TYPE 2
EDGE OF SHOULDER

LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

# CURB RAMP DETAILS
# GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.658 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CURB RAMPS - GRANT 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:30:25 PM USER: kperkins
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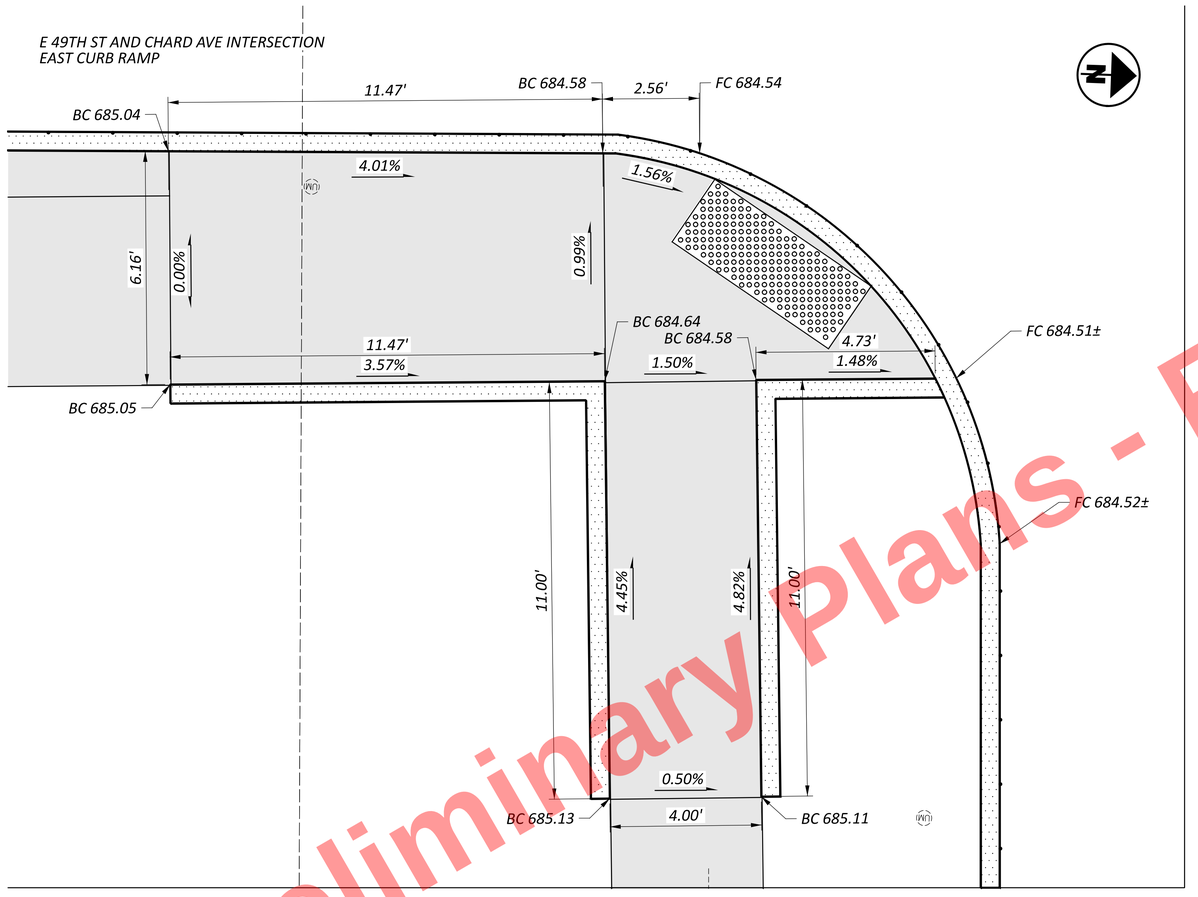


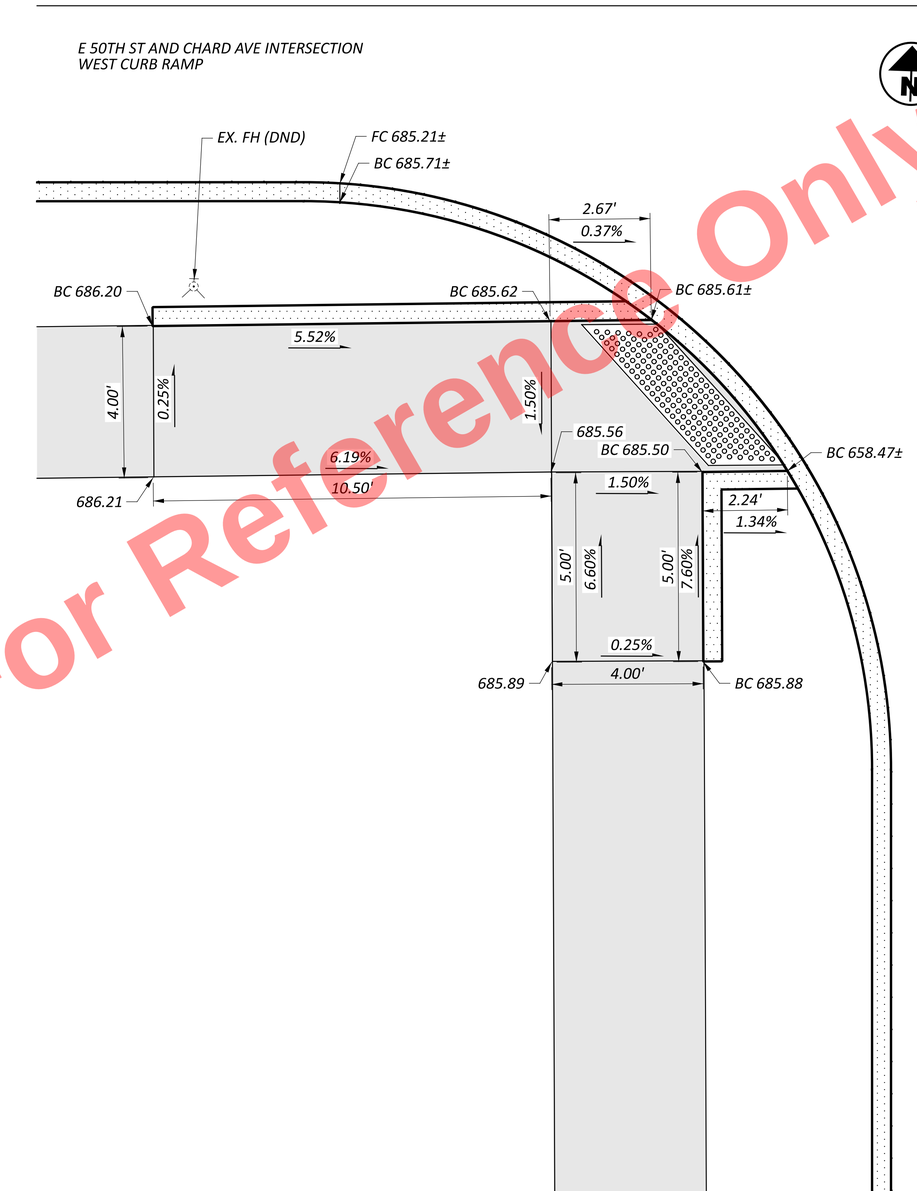


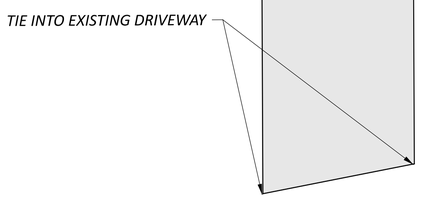


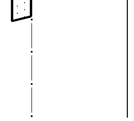

LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS
CHARD AVENUE

CUY-77-11.41 - PART 1

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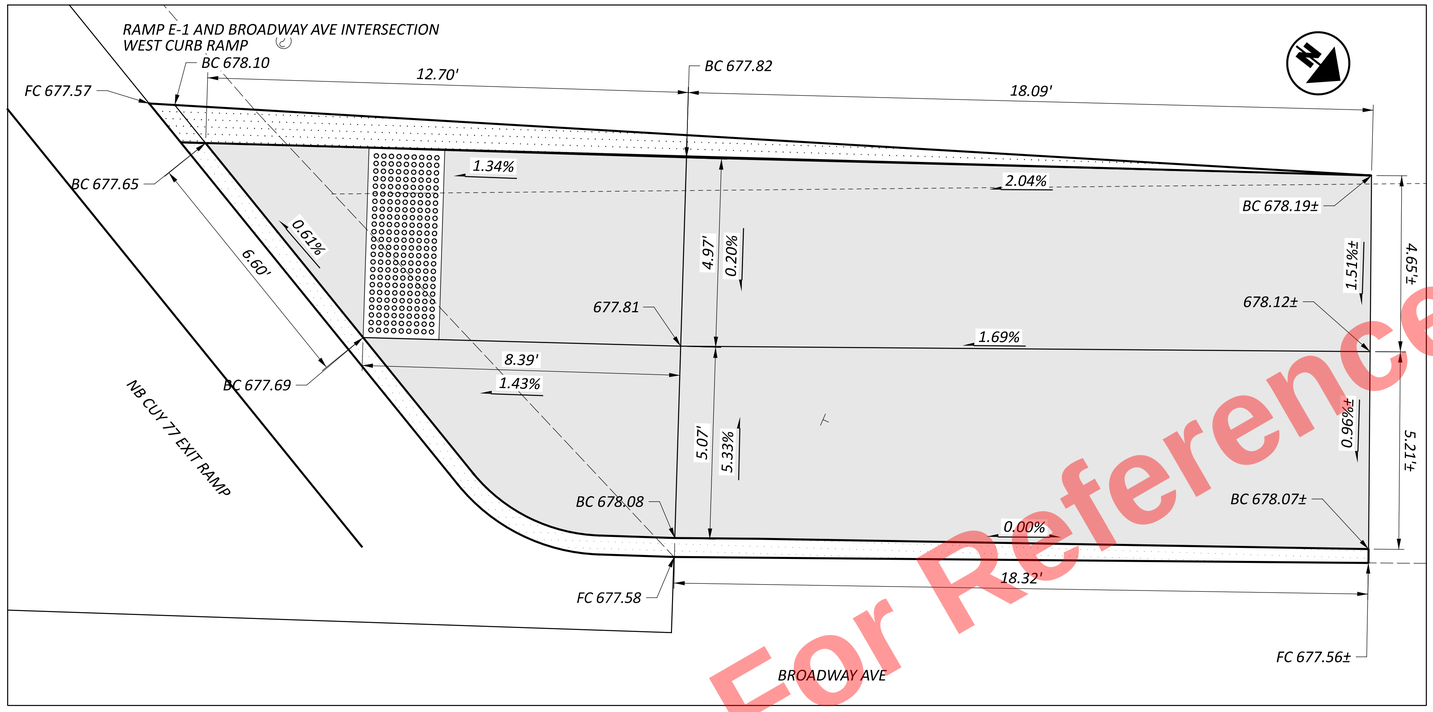
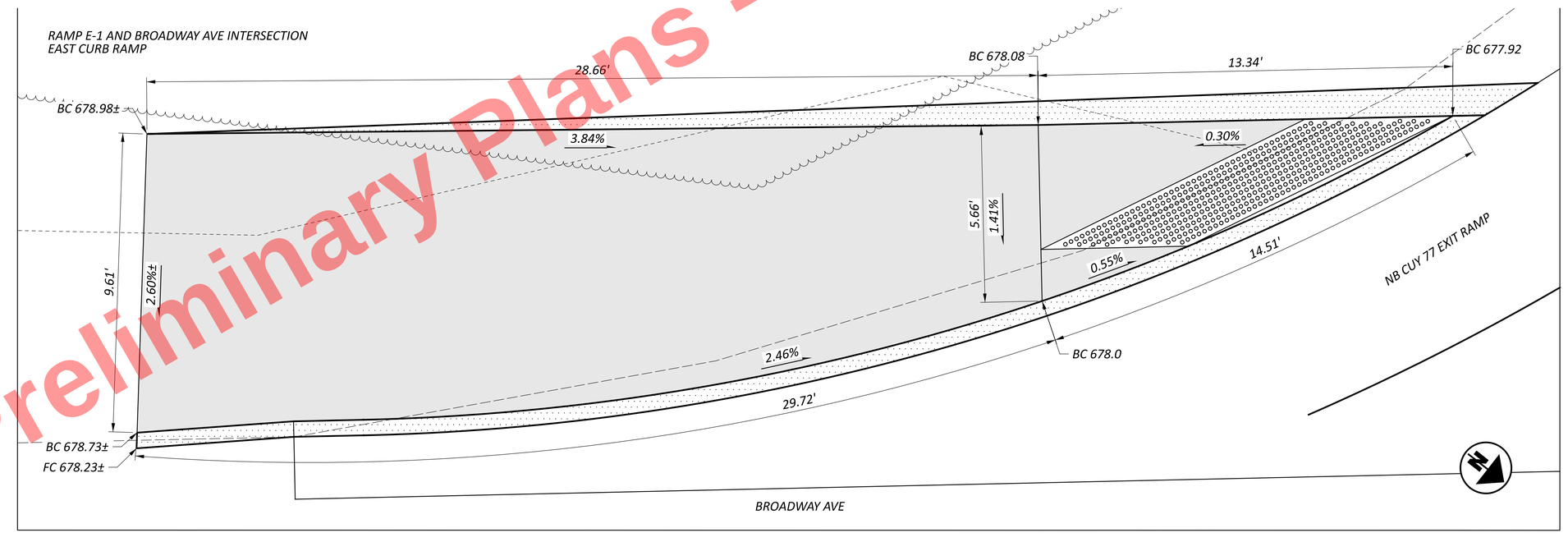
DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.659 TOTAL P.1135




Preliminary Plans - For Reference Only

*LEGEND*

*FC - FRONT OF CURB*

*BC - BACK OF CURB*

*CONCRETE BARRIER*

*CONCRETE CURB*

HORIZONTAL SCALE IN FEET
0 1 2 4

# CURB RAMP DETAILS BROADWAY AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.660 TOTAL P.1135

CUY-77-11.41 - PART 1

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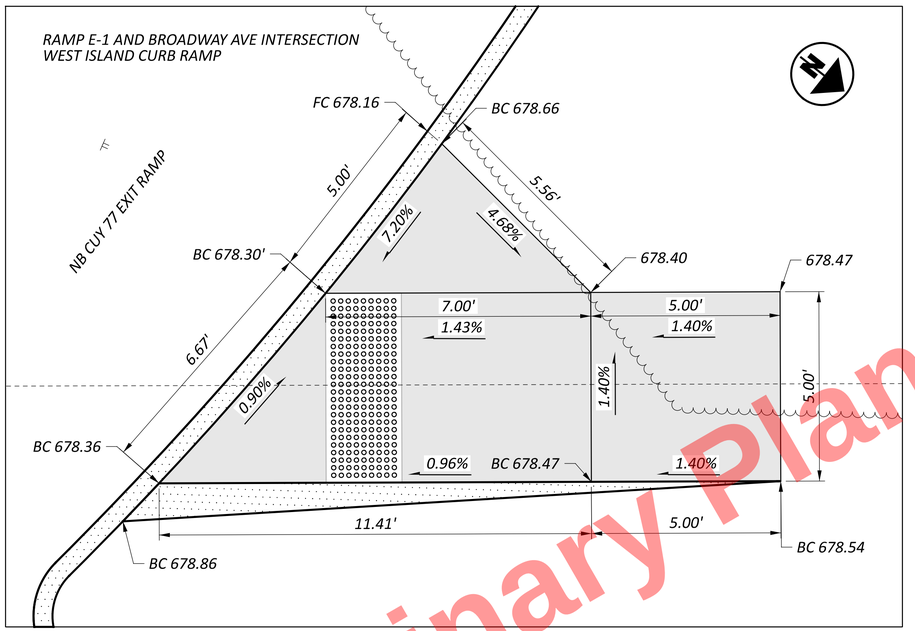
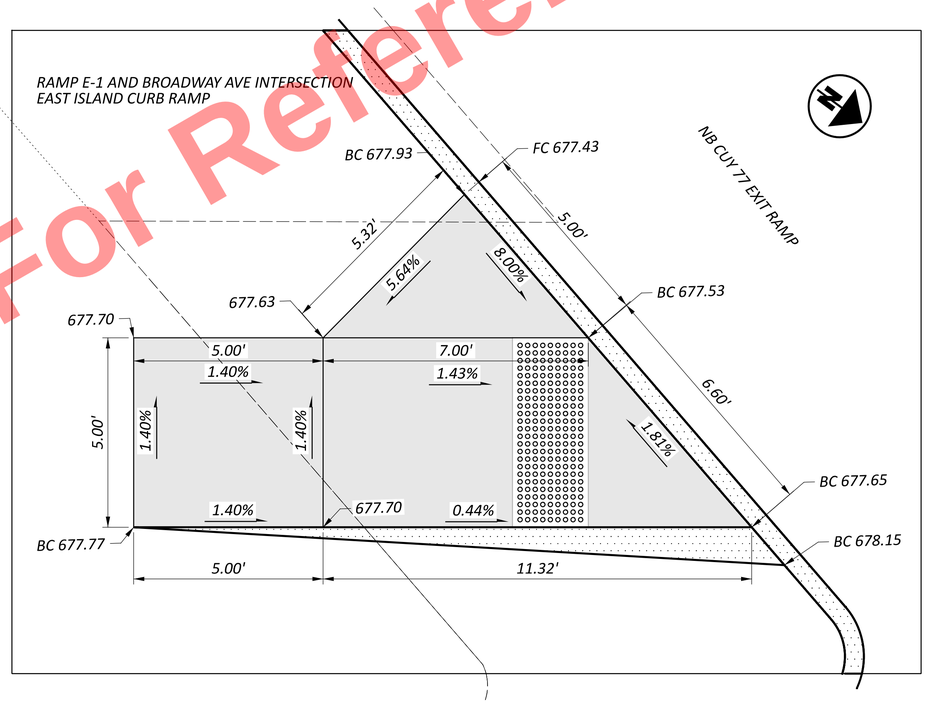
Preliminary Plans - For Reference Only

RAMP E-1 AND BROADWAY AVE INTERSECTION
WEST ISLAND CURB RAMP




RAMP E-1 AND BROADWAY AVE INTERSECTION
EAST ISLAND CURB RAMP




*LEGEND*

*FR - FRONT OF CURB*

*BC - BACK OF CURB*

*CONCRETE BARRIER*

*CONCRETE CURB*

HORIZONTAL SCALE IN FEET
0 1 2 4

# CURB RAMP DETAILS BROADWAY AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.661 TOTAL P.1135

CUY-77-11.41 - PART 1

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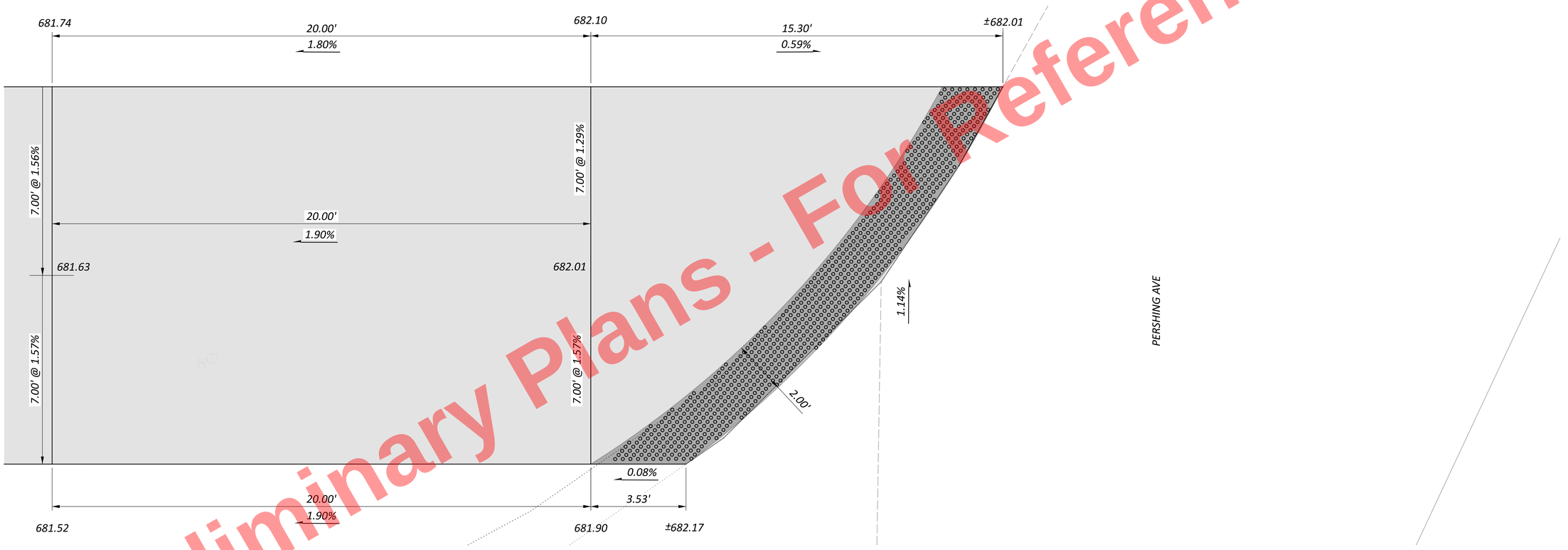
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 1 2 4

# MUP RAMPS RUFFINI CT

CUY-77-11.41 - PART 1

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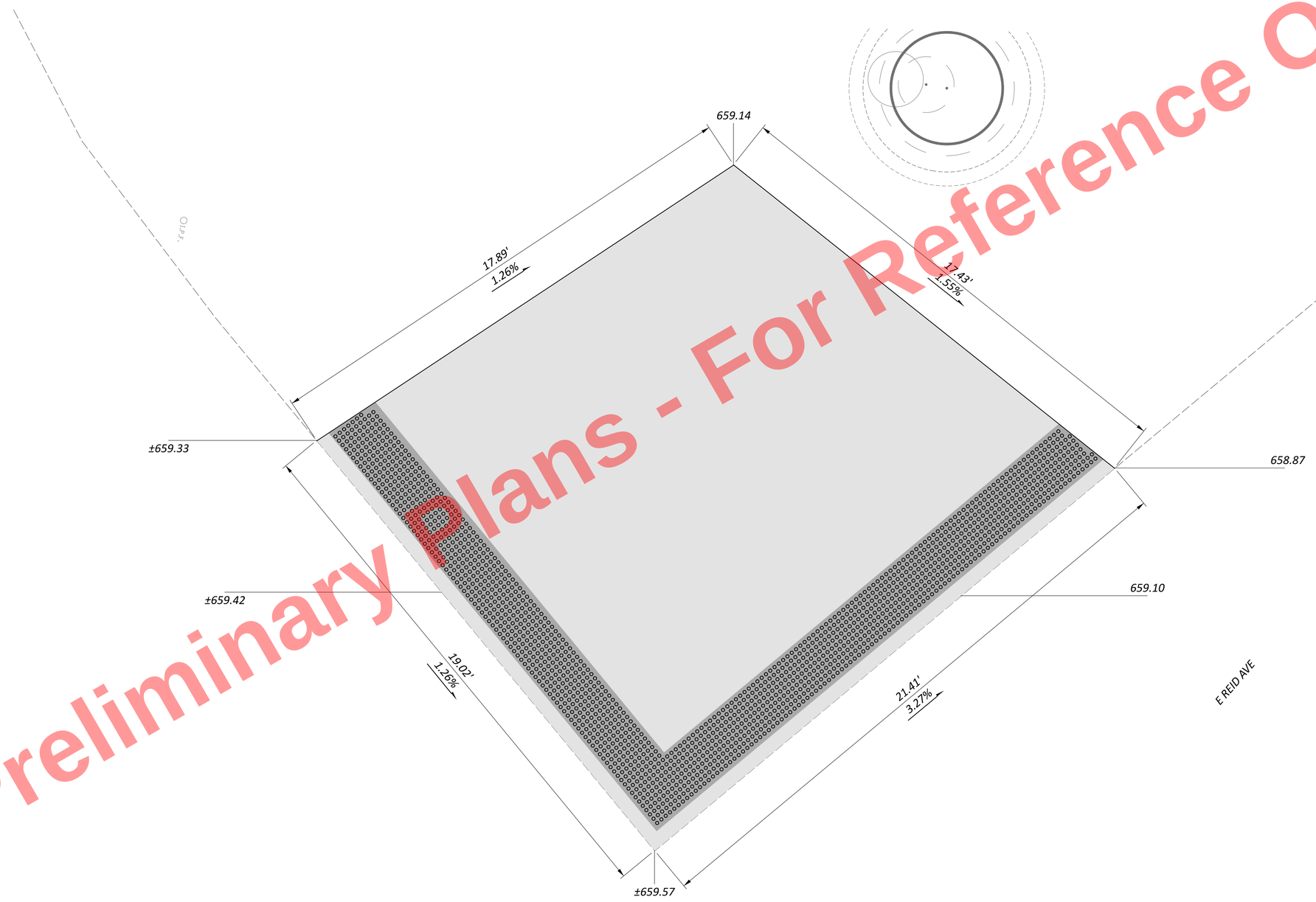
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 07/23/24 |
| PROJECT ID | 105743 |
| SHEET | P.662 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 1 2 4

MUP RAMPS
PERSHING CT

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.663 TOTAL P.1135

CUY-77-11.41 - PART 1

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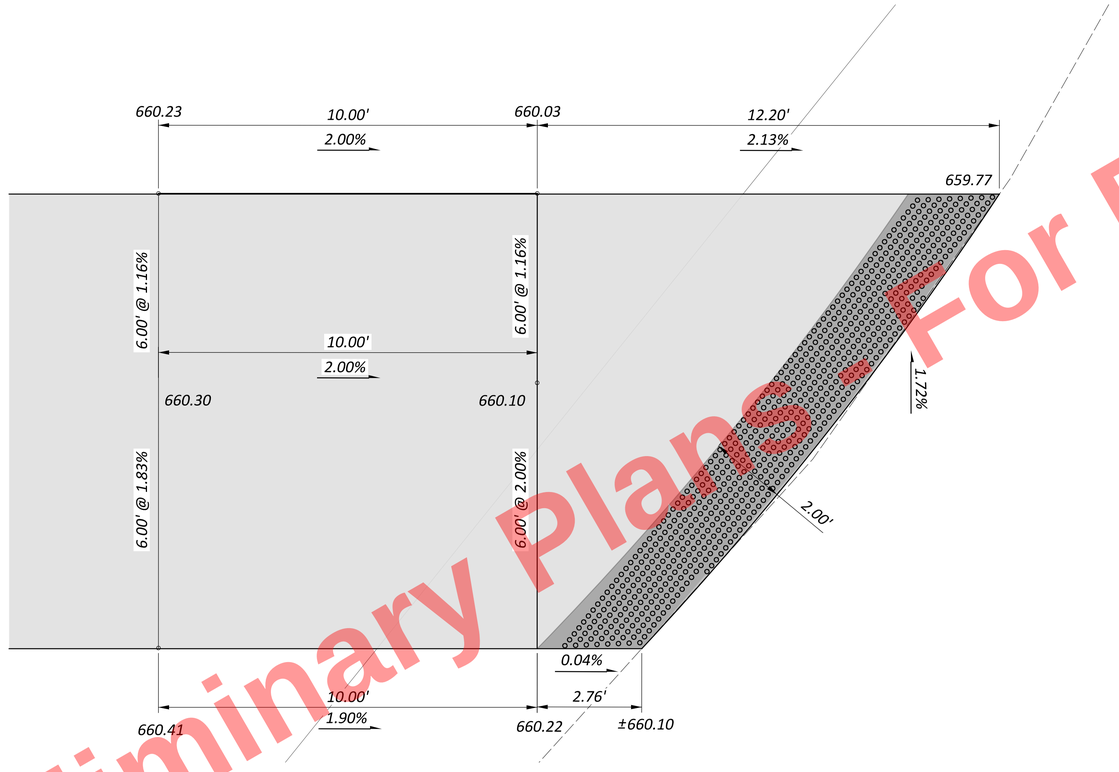


Preliminary Plans For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

# MUP RAMPS SOUTH OF RUFFINNI CT

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.664 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: MUP@SouthOfRuffini PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:30:37 PM USER: kperkins
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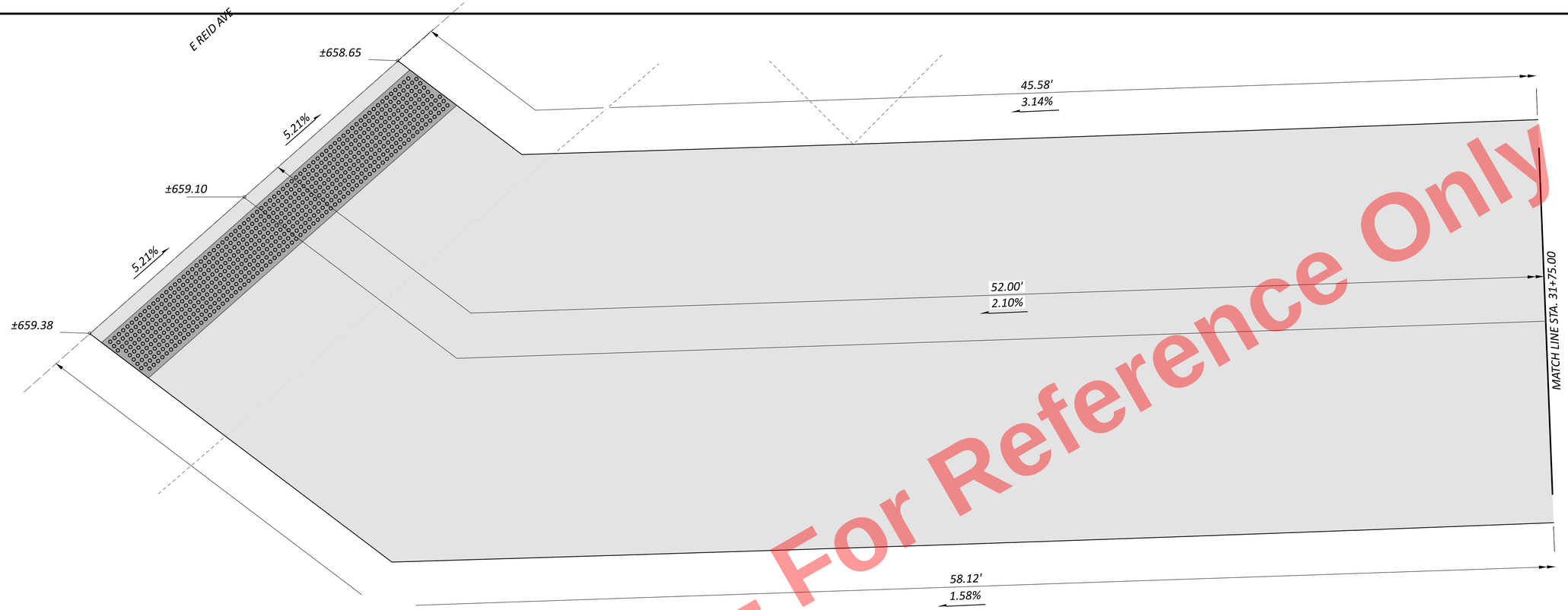


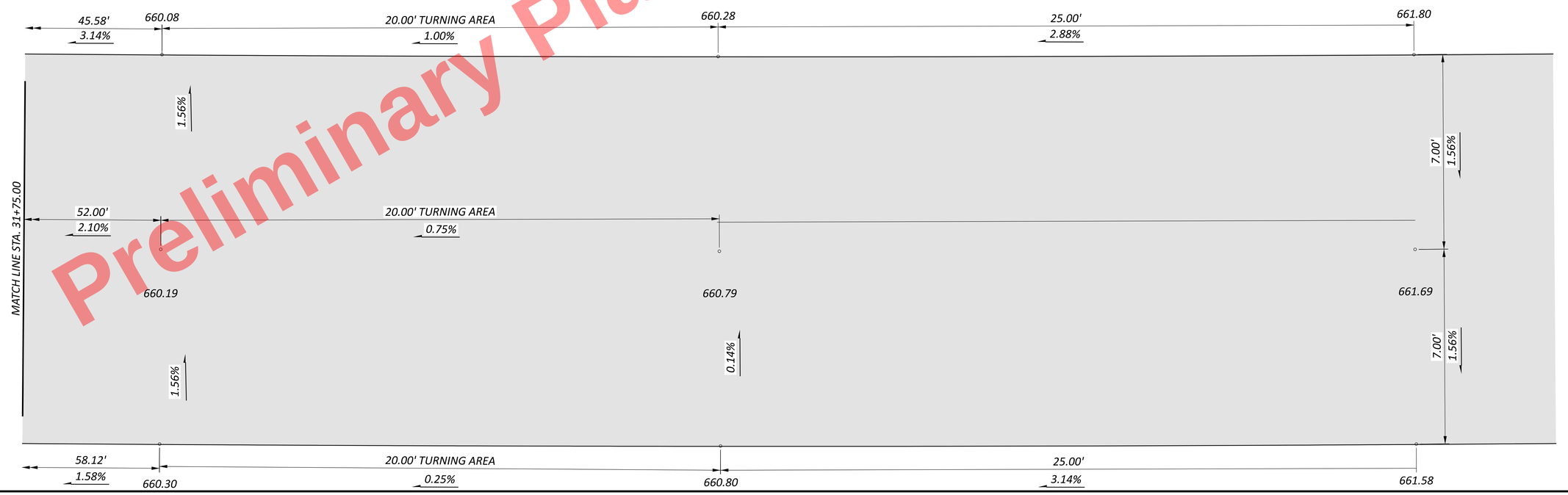


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

MUP RAMPS
NORTH RUFFINI CT

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.665 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: North@Ruffini PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:30:38 PM USER: kperkins
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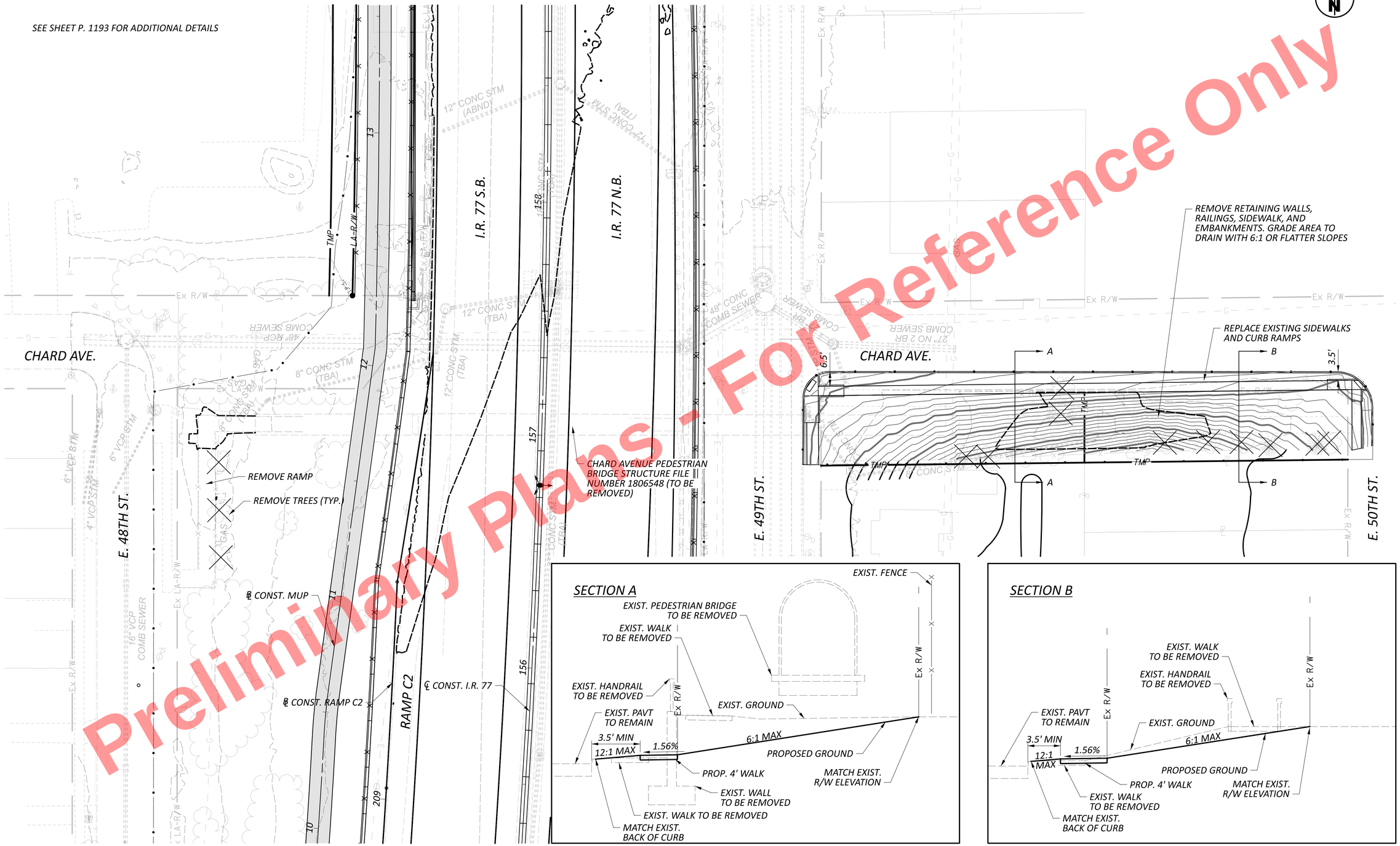


SEE SHEETS 33-87 FOR PLAN AND PROFILE SHEETS.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 5 10 20

# REMOVAL DETAILS
# CHARD AVENUE PEDESTRIAN BRIDGE

DESIGN AGENCY HNTB

DESIGNER JSB

REVIEWER KKP 05/02/22

PROJECT ID 105743

SHEET P.666 TOTAL P.1135

CUY-77-11.41 - PART 1

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## DRAINAGE

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING _____ IN DIAMETER CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER.

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALEWHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT, AS PER PLAN

DRAINAGE DISCHARGE CONTINUANCE REMOVAL

THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT . PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

CONDUIT MATERIAL TYPES

THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED,707.42, 707.43, 707.45, 707.46, 707.47, AND 707.51.

PAY ITEMS

EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

| | |
|---|---|
| ITEM 611, INSPECTION WELL | ___EACH |
| ITEM 611, CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE | ___FT. |
| ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE | ___FT. |
| ITEM 611, CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE | ___FT. |
| ITEM 611, CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE | ___FT. |
| ITEM 202, REMOVAL MISC CONDUIT | ___FT. |
| ITEM 202, REMOVAL MISC INSPECTION WELL | ___EACH |
| ITEM 203, EMBANKMENT AS PER PLAN | ___CU. YD. |

ITEM 611 - CONDUIT, BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION IS PERMITTED WITHIN ____ FEET OF THE (EDGE OF PAVEMENT) (NEAREST RAIL), PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1. 1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

ITEM 611 - CONDUIT, AS PER PLAN

THE PORTION OF RETIRED BRIDGE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REMOVED WITH THE CONSTRUCTION OF NEW CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY (STATE) (CITY) (VILLAGE) (COUNTY) FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

**NOTE TO REVIEWER**

NOTES SHOULD BE CONSIDERED PLACEHOLDERS AT THIS STAGE. THESE NOTES WILL BE REFINED/UPDATED DURING STAGE 3 PLAN DEVELOPMENT.

Preliminary Plans - For Reference Only



CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:38:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN001.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.667 | TOTAL P.1135

ITEM SPECIAL- MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL _____ POUNDS

REPLACE EXISTING CASTINGS DAMAGED BY CONTRACTOR NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AT THE EXPENSE OF THE CONTRACTOR.

ITEM 611 - ( )", SLOTTED DRAIN, TYPE ( )

THIS ITEM SHALL CONSIST OF ____ INCH DIAMETER SLOTTED DRAIN ALUMINUM COATED STEEL CONDUIT 707.01 WITH 6 INCH TRAPEZOIDAL GALVANIZED SOLID BAR GRATE AS APPROVED BY THE ENGINEER. ALL COSTS FOR LABOR AND MATERIALS, INCLUDING TYPE 2 BEDDING, AND BACKFILLING AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3 SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR ITEM 611 - ____ " SLOTTED DRAIN,TYPE ____ .

SEE THE MOT PHASING SHEETS FOR THE PROPOSED LOCATIONS OF THIS ITEM.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

| | |
|---|---|
| ITEM SPECIAL, PIPE CLEANOUT, 24" AND UNDER | ___ FT. |
| ITEM SPECIAL, PIPE CLEANOUT, 27" TO 48" | ___ FT. |
| ITEM SPECIAL, PIPE CLEANOUT, OVER 48" | ___ FT. |

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE SUMMARY FOR THE WORK NOTED ABOVE:

| | |
|---|---|
| ITEM 601, TIED CONCRETE BLOCK MAT, TYPE 1 | ___ SQ. YD. |
| ITEM 605, AGGREGATE DRAINS | ___ FT. |
| ITEM 611 " CONDUIT, TYPE F | ___ FT. |
| ITEM 611, PRECAST REINFORCED CONCRETE OUTLET | ___ EACH |
| ITEM 605 _____" UNCLASSIFIED PIPE UNDERDRAINS | ___ FT. |

TEMPORARY DRAINAGE ITEMS

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS. PAYMENT FOR THE TEMPORARY DRAINAGE ITEMS ARE ITEMIZED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 611 INLET, NO. 3D, AS PER PLAN

INLETS SHALL BE CONSTRUCTED ACCORDING TO THEIR APPLICABLE STANDARD CONSTRUCTION DRAWING WITH THE EXCEPTION OF THE LOCATIONS TO BE SPECIFIED ON THE PLANS ALONG THE TAPERED ALIGNMENT OF WALL 5A. INLETS MUST BE CONSTRUCTED IN FRONT OF THE WALL TAPER.

ITEM 202 REMOVAL MISC.: UNKNOWN CONDUIT REMOVED

CONDUIT PREVIOSULY ABANDONED BUT NOT FIELD LOCATED SHALL BE ACCOUNTED FOR IN THIS PAY ITEM FOR POTENTIAL CONFLICTS THAT REQUIRE REMOVAL.

ITEM 202 REMOVAL MISC.: UNKNOWN MANHOLES, CATCH BASINS, AND INLETS REMOVED

MANHOLES, CATCH BASINS, AND INLETS PREVIOUSLY ABANDONED BUT NOT FIELD LOCATED SHALL BE ACCOUNTED FOR IN THIS PAY ITEM FOR POTENTIAL CONFLICTS THAT REQUIRE REMOVAL.

MGS RAIL SPANNING DRAINAGE STRUCTURES

WHEN MGS RAIL IS REQUIRED TO SPAN OVER A DRAINAGE STRUCTURE, THE BELOW PROCEDURE IS TO BE FOLLOWED:

1. IF INLET REQUIRES 1 POST TO BE MISSING, MGS RAIL SHALL BE NESTED AND A POST LOCATED ON EITHER SIDE OF THE INLET.

ITEM 202 INLET ABANDONED, AS PER PLAN

FOR THE INLET AT APPROX. STA 133+15 THE CONTRACTOR SHALL REMOVE A PORTION OF THE PIPE ON EITHER SIDE. CONTRACTOR TO DOWEL IN AND TIE INTO WALLS AND BOX CULVERT STRUCTURE. THERE ARE TWO SETS OF DOWELS. THE THICKNESS TO SPAN IS 12". CONTRACTOR SHOULD BE AWARE THERE ARE STEPS PRESENT. CONTRACTOR TO INSTALL LIGHT WEIGHT FILL ATOP.

ITEM 611 - DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR THE CONTRACTOR TO FIELD LOCATE AND EXPOSE THE EXISTING CONNECTION POINT AT APPROXIMATELY STA. 170+60.75, 3.02' LT., NEAR THE MORGANA TRAIL STRUCTURE. THE CONTRACTOR SHALL UTILIZE THE EXISTING HOLE IN THE EXISTING BRICK SEWER AND FROM SAID CONNECTION POINT INSTALL THE PROPOSED 15-INCH CONDUIT TO FORM A NEW CONNECTION, AS DIRECTED BY THE PROJECT ENGINEER. ANY GROUTING, CHISELING, MACHINING OR LABOR REQUIRED TO ACCOMODATE THE NEW CONNECTION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH.

POST CONSTRUCTION STORM WATER TREATMENT

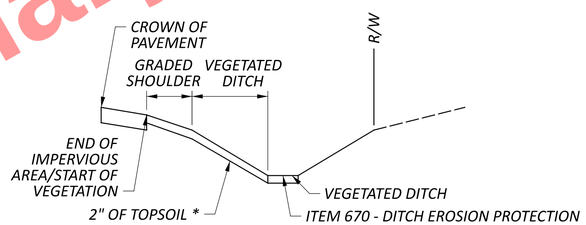
THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE VEGETATED BIOFILTER DETAIL BELOW TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER IS TRAPEZOIDAL, AS SHOWN IN THE DETAIL BELOW AND PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE DETAIL BELOW AND WIDTH AS SPECIFIED IN THE PLANS.




VEGETATED BIOFILTER DETAIL
CROSS SECTION VIEW
NOT TO SCALE

* 2" OF THE TOTAL 4" OF TOPSOIL REQUIRED IS ACCOUNTED FOR IN THE SEEDING AND MULCHING QUANTITY

**NOTE TO REVIEWER**

NOTES SHOULD BE CONSIDERED PLACEHOLDERS AT THIS STAGE. THESE NOTES WILL BE REFINED/UPDATED DURING STAGE 3 PLAN DEVELOPMENT.

Preliminary Plans - For Reference Only

DRAINAGE NOTES

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.668 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:38:20 PM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN001.dgn

| COORDINATES OF STORM STRUCTURE CASTINGS COVERED IN ASPHALT | | | | | | | |
|---|---|---|---|---|---|---|---|
| STRUCTURE | ALIGNMENT | STATION | OFFSET | SIDE | RIM ELEVATION | NORTHING (Y) | EASTING (X) |
| D-3A | I-77 | 75+56.50 | 51.00 | LT | 697.81 | 646815.999' | 2201706.797' |
| D-3B | I-77 | 77+70.00 | 50.50 | LT | 695.34 | 647025.243' | 2201683.562' |
| D-3D | I-77 | 78+50.00 | 51.00 | LT | 694.52 | 647103.299' | 2201671.136' |
| D-13A | I-77 | 81+67.00 | 57.00 | RT | 695.28 | 647434.995' | 2201713.864' |
| D-22 | I-77 | 85+99.00 | 57.50 | LT | 693.43 | 647816.431' | 2201475.388' |
| D-27 | I-77 | 89+10.00 | 53.00 | LT | 695.21 | 648097.517' | 2201359.145' |
| D-30 | I-77 | 89+98.44 | 61.06 | RT | 699.07 | 648228.426' | 2201425.142' |
| D-28 | I-77 | 90+00.00 | 50.00 | LT | 695.46 | 648178.422' | 2201323.252' |
| D-31 | I-77 | 92+94.00 | 47.00 | LT | 694.93 | 648434.165' | 2201186.478' |
| D-32A | I-77 | 95+56.94 | 8.93 | LT | 694.53 | 648676.164' | 2201080.317' |
| D-32 | I-77 | 95+65.00 | 50.00 | LT | 692.78 | 648656.510' | 2201038.191' |
| D-37 | I-77 | 99+00.00 | 50.00 | LT | 690.56 | 648923.351' | 2200839.037' |
| D-39 | I-77 | 103+70.00 | 60.00 | LT | 686.28 | 649291.568' | 2200550.512' |
| D-105 | RAMP B1 | 102+10.00 | 2.00 | RT | 681.85 | 649423.844' | 2200610.318' |
| D-41 | I-77 | 106+08.00 | 64.00 | LT | 683.28 | 649490.976' | 2200404.880' |
| D-106 | RAMP B1 | 104+23.00 | 2.00 | RT | 678.52 | 649609.316' | 2200507.350' |
| D-43 | I-77 | 110+80.00 | 46.50 | LT | 675.83 | 649906.817' | 2200175.158' |
| D-43A | I-77 | 113+39.00 | 48.50 | LT | 672.16 | 650140.693' | 2200057.644' |
| D-59 | I-77 | 120+00.00 | 55.00 | LT | 662.64 | 650762.794' | 2199821.916' |
| D-59A | I-77 | 120+14.49 | 79.54 | LT | 662.4 | 650772.439' | 2199790.540' |
| D-61 | I-77 | 125+78.00 | 62.00 | LT | 654.69 | 651334.151' | 2199682.947' |
| D-64A | I-77 | 129+05.00 | 46.00 | LT | 650.32 | 651664.713' | 2199658.302' |
| D-64 | I-77 | 130+65.00 | 46.00 | LT | 650.26 | 651826.063' | 2199647.050' |
| D-71A | I-77 | 133+71.00 | 52.00 | LT | 651.98 | 652132.405' | 2199629.231' |
| D-84 | I-77 | 141+57.00 | 51.00 | LT | 662.63 | 652918.345' | 2199602.648' |
| D-86 | I-77 | 143+30.00 | 53.00 | LT | 666.14 | 653091.653' | 2199599.687' |
| D-156 | I-77 | 162+50.00 | 6.00 | RT | 676.69 | 655009.969' | 2199676.879' |
| D-162 | I-77 | 162+50.00 | 55.50 | LT | 675.48 | 655003.608' | 2199615.704' |
| D-158A | I-77 | 163+35.00 | 8.50 | RT | 676.39 | 655095.321' | 2199669.873' |
| D-151A | I-77 | 164+70.54 | 54.00 | RT | 677.17 | 655236.409' | 2199697.201' |
| D-195 | I-77 | 196+89.00 | 50.00 | LT | 662.4 | 658344.528' | 2198854.859' |
| D-201 | I-77 | 199+20.00 | 50.00 | LT | 659.54 | 658574.373' | 2198832.524' |
| D-399 | I-77 | 211+67.65 | 76.27 | LT | 656.59 | 659813.903' | 2198689.403' |

Preliminary Plans - Not For Reference Only

***NOTE TO REVIEWER***

NOTES SHOULD BE CONSIDERED PLACEHOLDERS AT THIS STAGE. THESE NOTES WILL BE REFINED/UPDATED DURING STAGE 3 PLAN DEVELOPMENT.

DRAINAGE NOTES - CRITICAL STRUCTURE COORDINATES

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.669 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 8:38:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## STORM STRUCTURE UNDERDRAIN INVERTS

| STRUCTURE | GRATE | STORM SEWER RUN | DIRECTION #1 | U.D. RUN #1 | U.D. INVERT #1 | DIRECTION #2 | U.D. RUN #2 | U.D. INVERT #2 | DIRECTION #3 | U.D. RUN #3 | U.D. INVERT #3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D-2 | 718.91 | C | S | UD-12 | 715.84 | | | | | | |
| D-3C | 696.05 | A | S | UD-1 | 693.04 | | | | | | |
| D-4 | 697.74 | D | S | UD-6 | 694.75 | W | UD-5 | 693.86 | | | |
| D-5 | 696.21 | B | S | UD-4 | 693.19 | | | | | | |
| D-6 | 694.97 | B | S | UD-13 | 691.69 | E | UD-3 | 691.69 | | | |
| D-8 | 696.40 | D | S | UD-20 | 693.46 | E | UD-9 | 693.40 | N | UD-23 | 693.36 |
| D-9 | 694.11 | F | S | UD-18 | 691.09 | | | | | | |
| D-10 | 692.57 | BC | S | UD-21 | 689.58 | | | | | | |
| D-10A | 693.08 | BC | S | UD-15 | 690.09 | | | | | | |
| D-11 | 702.65 | E | S | UD-14 | 699.53 | | | | | | |
| D-12 | 693.23 | A | W | UD-37 | 689.74 | | | | | | |
| D-13 | 693.85 | E | W | UD-7 | 690.68 | | | | | | |
| D-13A | 695.28 | E | N | UD-19 | 691.29 | | | | | | |
| D-14 | 693.94 | F | S | UD-26 | 690.91 | N | UD-30 | 690.91 | | | |
| D-15 | 692.72 | G | S | UD-28 | 689.42 | E | UD-17 | 689.42 | N | UD-33 | 689.42 |
| D-15C | 692.43 | G | S | UD-25 | 689.44 | | | | | | |
| D-16 | 694.10 | F | N | UD-35 | 691.07 | | | | | | |
| D-17 | 692.65 | G | N | UD-36 | 689.69 | | | | | | |
| D-17A | 692.50 | G | N | UD-34 | 689.45 | | | | | | |
| D-18 | 692.19 | G | S | UD-38 | 689.08 | E | UD-39 | 689.08 | N | UD-40 | 689.08 |
| D-19 | 692.35 | G | S | UD-24 | 689.25 | | | | | | |
| D-21 | 692.33 | H | N | UD-42 | 689.29 | | | | | | |
| D-21A | 692.13 | H | N | UD-41 | 689.08 | | | | | | |
| D-23 | 695.80 | H | N | UD-44 | 692.78 | | | | | | |
| D-24 | 693.59 | H | N | UD-43 | 690.55 | | | | | | |
| D-26 | 695.21 | I | N | UD-45 | 692.16 | | | | | | |
| D-28 | 695.46 | A | N | UD-47 | 693.37 | | | | | | |
| D-31 | 694.93 | A | S | UD-47 | 692.73 | | | | | | |
| D-31C | 695.35 | K | S | UD-46 | 692.34 | | | | | | |
| D-32 | 692.78 | A | S | UD-53 | 690.72 | E | UD-48 | 691.67 | | | |
| D-32A | 694.53 | L | E | UD-49 | 692.24 | | | | | | |
| D-34 | 696.69 | L | W | UD-50 | 692.59 | S | UD-51 | 693.66 | | | |
| D-36 | 693.41 | L | S | UD-52 | 690.40 | | | | | | |
| D-37 | 690.56 | A | S | UD-59 | 688.44 | E | UD-58 | 688.46 | | | |
| D-37A | 691.16 | M | S | UD-57 | 688.15 | | | | | | |
| D-38 | 691.25 | M | S | UD-56 | 688.25 | | | | | | |
| D-38A | 692.18 | M | S | UD-54 | 688.42 | W | UD-55 | 688.41 | | | |
| D-40 | 687.24 | N | S | UD-60 | 684.22 | | | | | | |
| D-41 | 683.28 | A | E | UD-61 | 679.47 | | | | | | |
| D-42 | 684.55 | O | E | UD-68 | 681.15 | | | | | | |
| D-44 | 682.65 | P | S | UD-65 | 679.64 | | | | | | |
| D-45 | 679.24 | P | S | UD-69 | 676.20 | | | | | | |
| D-46 | 678.86 | Q | S | UD-75 | 675.81 | W | UD-76 | 675.91 | N | UD-79 | 675.81 |
| D-47 | 680.98 | R | N | UD-82 | 677.98 | | | | | | |
| D-47A | 689.82 | R | N | UD-89 | 686.94 | | | | | | |
| D-47B | 691.65 | | N | UD-96 | 689.16 | | | | | | |
| D-48 | 675.05 | S | S | UD-64 | 672.80 | W | UD-73 | 669.13 | | | |
| D-49 | 679.70 | T | N | UD-88 | 676.81 | | | | | | |
| D-50 | 679.39 | T | S | UD-83 | 676.39 | E | UD-85 | 676.38 | N | UD-86 | 676.39 |
| D-51 | 680.11 | T | S | UD-74 | 677.16 | | | | | | |
| D-53 | 671.50 | S | W | UD-72 | 669.50 | | | | | | |
| D-54 | 676.06 | S | S | UD-84 | 673.12 | | | | | | |
| D-56 | 665.80 | U | S | UD-90 | 662.90 | | | | | | |
| D-57 | 664.19 | UU | S | UD-101 | 661.27 | W | UD-92 | 661.16 | N | UD-106 | 660.74 |
| D-57A | 664.54 | UU | SE | UD-99 | 661.50 | NE | UD-107 | 660.65 | | | |
| D-58 | 665.29 | V | S | UD-93 | 662.28 | W | UD-94 | 662.36 | | | |
| D-60 | 663.48 | W | W | UD-95 | 660.61 | W | UD-98 | 660.68 | | | |
| D-61 | 654.69 | A | W | UD-112 | 652.29 | | | | | | |
| D-63 | 653.36 | X | S | UD-103 | 650.35 | W | UD-102 | 650.42 | | | |
| D-65 | 649.57 | Y | S | UD-118 | 646.54 | | | | | | |
| D-66 | 649.41 | Z | S | UD-121 | 646.37 | N | UD-127 | 646.37 | | | |
| D-67 | 649.63 | Z | N | UD-131 | 646.65 | | | | | | |
| D-68 | 650.88 | Z | N | UD-130 | 647.84 | | | | | | |
| D-69 | 650.88 | Y | S | UD-120 | 647.79 | | | | | | |
| D-70 | 650.89 | Z | S | UD-122 | 647.85 | E | UD-119 | 647.01 | N | UD-129 | 647.85 |
| D-71A | 651.98 | A | W | UD-138 | 649.58 | N | UD-139 | 649.91 | | | |
| D-72 | 651.50 | AB | E | UD-146 | 648.98 | | | | | | |
| D-73 | 652.36 | AD | N | UD-137 | 649.50 | | | | | | |
| D-74 | 652.19 | AC | S | UD-133 | 649.28 | N | UD-134 | 649.28 | | | |
| D-75 | 651.68 | AC | S | UD-132 | 648.59 | W | UD-135 | 648.70 | N | UD-136 | 648.77 |
| D-76 | 658.68 | AE | N | UD-141 | 655.84 | | | | | | |
| D-76A | 658.82 | AE | N | UD-140 | 656.11 | | | | | | |
| D-77 | 665.36 | AF | N | UD-147 | 662.51 | | | | | | |
| D-78 | 665.69 | AF | N | UD-148 | 663.07 | | | | | | |
| D-79 | 684.21 | AC | N | UD-152 | 681.35 | | | | | | |

## STORM STRUCTURE UNDERDRAIN INVERTS

| STRUCTURE | GRATE | STORM SEWER RUN | DIRECTION #1 | U.D. RUN #1 | U.D. INVERT #1 | DIRECTION #2 | U.D. RUN #2 | U.D. INVERT #2 | DIRECTION #3 | U.D. RUN #3 | U.D. INVERT #3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D-80 | 673.42 | AC | N | UD-149 | 670.61 | | | | | | |
| D-81 | 654.89 | AC | W | UD-143 | 651.88 | N | UD-142 | 651.97 | | | |
| D-81A | 658.49 | AC | N | UD-150 | 655.56 | | | | | | |
| D-82 | 655.10 | AG | N | UD-144 | 652.10 | | | | | | |
| D-84 | 662.63 | AB | E | UD-154 | 659.89 | | | | | | |
| D-84A | 661.46 | AC | W | UD-156 | 658.48 | N | UD-157 | 658.57 | | | |
| D-85 | 663.11 | AB | N | UD-153 | 660.11 | | | | | | |
| D-87 | 663.80 | AC | N | UD-160 | 660.92 | | | | | | |
| D-89 | 676.52 | AC | N | UD-176 | 673.81 | | | | | | |
| D-90 | 674.45 | AC | N | UD-172 | 671.90 | | | | | | |
| D-91 | 670.54 | AI | N | UD-171 | 667.65 | | | | | | |
| D-92 | 670.31 | AI | S | UD-162 | 667.31 | N | UD-163 | 667.31 | | | |
| D-93 | 670.54 | AI | S | UD-159 | 667.64 | | | | | | |
| D-94 | 670.88 | AC | S | UD-158 | 667.87 | W | UD-167 | 667.91 | N | UD-164 | 667.90 |
| D-94A | 667.10 | AC | N | UD-161 | 664.22 | | | | | | |
| D-95 | 671.86 | AH | W | UD-169 | 668.96 | N | UD-168 | 668.86 | | | |
| D-95A | 672.75 | AH | N | UD-170 | 669.93 | | | | | | |
| D-97 | 681.13 | AJ | E | UD-181 | 677.30 | | | | | | |
| D-98 | 681.30 | AJ | W | UD-177 | 677.98 | | | | | | |
| D-100 | 681.22 | AB | S | UD-183 | 678.23 | N | UD-185 | 678.21 | | | |
| D-101 | 681.58 | AB | S | UD-178 | 678.58 | | | | | | |
| D-102 | 681.26 | AB | E | UD-186 | 678.40 | N | UD-187 | 678.54 | | | |
| D-103 | 681.75 | AB | N | UD-190 | 678.77 | | | | | | |
| D-104 | 684.46 | | E | UD-174 | 681.29 | N | UD-175 | 681.35 | | | |
| D-105 | 681.85 | P | S | UD-67 | 679.75 | W | UD-62 | 679.74 | | | |
| D-106 | 678.52 | P | S | UD-70 | 676.41 | | | | | | |
| D-107 | 678.97 | P | S | UD-78 | 676.09 | | | | | | |
| D-110 | 721.14 | | E | UD-10 | 718.15 | | | | | | |
| D-111 | 720.46 | | W | UD-8 | 717.53 | | | | | | |
| D-150 | 680.58 | AL | S | UD-197 | 677.56 | W | UD-196 | 676.64 | | | |
| D-151A | 677.17 | AL | W | UD-200 | 674.29 | | | | | | |
| D-152 | 677.65 | AL | S | UD-199 | 674.63 | | | | | | |
| D-154 | 677.83 | AL | S | UD-214 | 674.50 | N | UD-217 | 674.50 | | | |
| D-155 | 677.76 | AL | N | UD-218 | 674.73 | | | | | | |
| D-157 | 677.55 | AO | S | UD-195 | 674.54 | | | | | | |
| D-158 | 676.99 | AO | S | UD-204 | 673.96 | | | | | | |
| D-159 | 676.74 | AO | S | UD-206 | 673.71 | N | UD-211 | 673.71 | | | |
| D-160 | 676.84 | AO | N | UD-215 | 673.82 | | | | | | |
| D-161 | 677.90 | AL | N | UD-219 | 674.88 | | | | | | |
| D-162 | 675.48 | AN | S | UD-203 | 673.23 | | | | | | |
| D-163 | 677.95 | AK | S | UD-198 | 674.98 | E | UD-194 | 675.04 | | | |
| D-163A | 679.46 | AK | S | UD-191 | 676.42 | | | | | | |
| D-164 | 675.87 | AK | S | UD-205 | 672.84 | | | | | | |
| D-165 | 675.61 | AK | S | UD-207 | 672.58 | E | UD-201 | 672.68 | N | UD-208 | 672.58 |
| D-166 | 675.88 | AK | N | UD-213 | 672.86 | | | | | | |
| D-166A | 676.19 | AK | N | UD-216 | 673.17 | | | | | | |
| D-167 | 677.63 | AK | E | UD-220 | 674.69 | N | UD-221 | 674.60 | | | |
| D-183 | 680.12 | AR | S | UD-227 | 676.95 | | | | | | |
| D-184 | 681.07 | AR | S | UD-299 | 678.13 | W | UD-228 | 677.45 | | | |
| D-187 | 676.72 | AS | S | UD-232 | 673.52 | W | UD-233 | 673.61 | | | |
| D-188 | 675.90 | AT | S | UD-230 | 673.16 | W | UD-231 | 673.10 | | | |
| D-189 | 669.22 | AT | S | UD-241 | 666.24 | | | | | | |
| D-189A | 672.74 | AT | S | UD-236 | 670.18 | | | | | | |
| D-190 | 669.11 | AT | S | UD-244 | 666.11 | W | UD-243 | 666.11 | N | UD-245 | 666.11 |
| D-191 | 669.35 | AT | N | UD-249 | 666.39 | | | | | | |
| D-193 | 668.16 | AU | E | UD-247 | 665.08 | | | | | | |
| D-193A | 670.47 | AQ | SE | UD-238 | 668.78 | | | | | | |
| D-194 | 667.23 | AU | S | UD-240 | 664.19 | | | | | | |
| D-198 | 662.39 | AT | W | UD-242 | 660.60 | | | | | | |
| D-202 | 660.20 | AX | S | UD-254 | 657.18 | | | | | | |
| D-203 | 660.02 | AX | S | UD-259 | 656.99 | N | UD-262 | 656.99 | | | |
| D-204 | 660.20 | AZ | N | UD-267 | 657.18 | | | | | | |
| D-206 | 657.19 | AT | W | UD-257 | 656.59 | | | | | | |
| D-208 | 658.74 | AT | W | UD-274 | 658.14 | | | | | | |
| D-209 | 659.96 | AT | SE | UD-273 | 658.38 | W | UD-275 | 658.64 | | | |
| D-210 | 660.06 | AW | S | UD-252 | 657.12 | | | | | | |
| D-212 | 659.78 | BF | S | UD-260 | 656.79 | E | UD-253 | 656.79 | N | UD-264 | 656.79 |
| D-212D | 659.78 | BF | N | UD-266 | 656.80 | | | | | | |
| D-212E | 659.78 | BF | S | UD-258 | 656.80 | | | | | | |
| D-214 | 659.98 | AZ | N | UD-268 | 657.03 | | | | | | |
| D-215C | 660.84 | AQ | N | UD-269 | 657.88 | | | | | | |
| D-399 | 656.59 | BJ | S | UD-284 | 653.09 | E | UD-278 | 653.14 | | | |
| D-401 | 651.35 | BA | E | UD-283 | 648.31 | | | | | | |
| D-404 | 651.34 | BA | S | UD-280 | 648.06 | N | UD-289 | 648.06 | | | |
| D-405 | 658.33 | BI | S | UD-277 | 655.41 | | | | | | |
| O-1A | 662.01 | U | SW | UD-100 | 660.25 | | | | | | |

Preliminary Plans - For Reference Only

DRAINAGE NOTES - UNDERDRAIN INVERT DATA

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.670 TOTAL P.1135

CUY-77-11.41 - PART 1

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## LEGEND

| | |
|---|---|
| D- | DRAINAGE ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS) |
| DA- | DRAINAGE ABANDONED OR REMOVED ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS) |
| DZ- | DRAINAGE ADJUSTED TO GRADE OR RECONSTRUCTED ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS) |
| E- | EROSION CONTROL ITEM |
| SZ- | SANITARY OR COMBINED ADJUSTED TO GRADE ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS) |
| UD- | UNDERDRAIN ITEM |
| VBF- | VEGETATED BIOFILTER ITEM (SEE DRAINAGE NOTES SHEET FOR ADDITIONAL DETAIL AND NOTE) |
| VFS- | VEGETATED FILTER STRIP ITEM (SEE DRAINAGE NOTES SHEET FOR ADDITIONAL NOTE) |
| A | STORM SEWER RUN (SEE STORM SEWER PROFILES FOR ADDITIONAL DETAILS) |
| | EXISTING STORM SEWER |
| | PROP. CONTRUCTION LIMITS |
| | PROP. VEGETATED FILTER STRIP |
| | PROP. VEGETATED BIOFILTER |
| | PROP. MULTI-USE PATH |
| | PROP. SODDING STAKED |
| | PROP. DITCH EROSION PROTECTION MAT TYPE C |
| | PROP. ROCK CHANNEL PROTECTION W/ FILTER |
| | PROP. TIED CONCRETE BLOCK MAT |
| (TBA) | TO BE ABANDONED |
| (TBR) | TO BE REMOVED |
| (ABND) | ABANDONED |

## DIAMOND NOTES

A. INSTALL PIPE CONNECTION WITH CONCRETE MASONRY COLLAR PER ODOT SCD DM-1.1

B. PROPOSED MANHOLE FRAME AND SOLID COVER SHALL BE BURIED TO THE TOP OF THE AGGREGATE BASE LAYER

C. THE PID 115275 PROJECT CONNECTS A 15" AND 24" PROPOSED STORM TO THE PID 105743 PROJECT AT THE D-4D MANHOLE. ALL DRAINAGE PRIOR TO THE BEGIN PROJECT LIMITS AND ALONG RAMPS BELONGS TO THE PID 115275 PROJECT

D. SEGMENT OF EXISTING STORM TO BE REMOVED

E. HALF HEIGHT HEADWALL PER ODOT SCD HW-2.1 OR HW-2.2

F. PRECAST CONCRETE OUTLET AND TIED CONCRETE MAT WITH TYPE 1 UNDERLAYMENT, PER ODOT SCD DM-1.1

G. FOR ADDITIONAL STRUCTURAL DETAILS AT THE MANHOLE AND CHAMBER CONNECTION TO THE BURKE BROOK CULVERT, SEE SHEET P.672

H. CONTRACTOR TO FIELD LOCATE THE EXISTING UNDERDRAIN AND CONNECT TO THE D-71B CATCH BASIN. THE GRATE ELEVATION OF D-71B SHALL BE APPROX. 2.5" ABOVE GRADED GROUND ELEVATION

I. CONTRACTOR TO REMOVE THE EXISTING FOOTER TO THE LIMITS WHICH AVOID CONFLICT WITH THE PROPOSED STORM

J. PROPOSED CONCRETE CRADLE PER DETAIL ON SHEET P.673

K. FURNISH BICYCLE SAFE GRATES

L. THE PROPOSED 15" STORM SHALL UTILIZE THE EXISTING BLIND CONNECTION INTO THE 60" COMBINED SEWER

M. CORE INTO THE EXISTING STRUCTURE. COST INCLUDED IN UNIT PRICE BID OF NEW CONDUIT

N. MH D-399 RECONSTRUCTED TO GRADE, A.P.P. WAS UPSIZED TO ALLOW ACCESS TO THE STEPS AND LID WITHOUT REPLACING MULTIPLE LEGS OF RECENTLY CONSTRUCTED PIPES

O. CONNECT PROPOSED UNDERDRAIN TO THE EXISTING UNDERDRAIN

P. INSTALL PAVED GUTTER TYPE 1-2, PER ODOT SCD DM-2.1 BETWEEN THE PROPOSED BARRIER AND THE EXISTING RETAINING WALL

Q. DRAINAGE STRUCTURE WILL NEED TO ACCOMMODATE THE SLOTTED DRAIN OUTLET

R. CONDUIT BORED OR JACKED. COST INCLUDED IN UNIT PRICE BID OF NEW CONDUIT

S. PROPOSED PIPE SEGMENT SHALL BE INSTALLED AS A BROKEN BACK PIPE RUN WITH MASONRY COLLARS PER ODOT L&D VOLUME 2 FIGURE 1104-1. PIPE LENGTH TO BE VERIFED AND PIPE SHALL BE ITEM 611 – 15" CONDUIT, TYPE F, 707.05

T. PROPOSED CATCH BASIN TO BE INSTALLED FOR MOT DRAINAGE. AFTER FINAL CURBING INSTALLATION AND GRADING, THE CATCH BASIN CAN BE REMOVED OR ABANDONED IN PLACE

U. THE GRATE ELEVATION OF THE D-71D MANHOLE SHALL BE APPROX. 2.25' ABOVE THE GRADED GROUND ELEVATION

V. THE REPLACEMENT OF THE PIPES AND OUTLET FOR THE DRAINAGE OF THE RAILROAD BRIDGES TO D-28 ARE DETAILED IN THE PLANS FOR RETAINING WALL 1B

W. THE GRATE ELEVATION OF THE D-198 MANHOLE SHALL BE APPROX. 0.5' ABOVE THE GRADED GROUND ELEVATION

X. CONTRACTOR SHALL TAKE EXTREME CARE TO NOT DISTURB EXISTING DRAINAGE PIPE IN THIS LOCATION, AS THE STORM PIPE IS WITHIN THE PROXIMITY OF THE PAVEMENT SUBGRADE. PLEASE USE EXTREME CARE WITH ALL VIBRATORY ROLLERS AND EQUIPMENT TO NOT DAMAGE EXISTING CONDUITS.

Preliminary Plans - For Reference Only

DRAINAGE PLANS - LEGEND AND DIAMOND NOTES KEY

CUY-77-11.41 - PART 1

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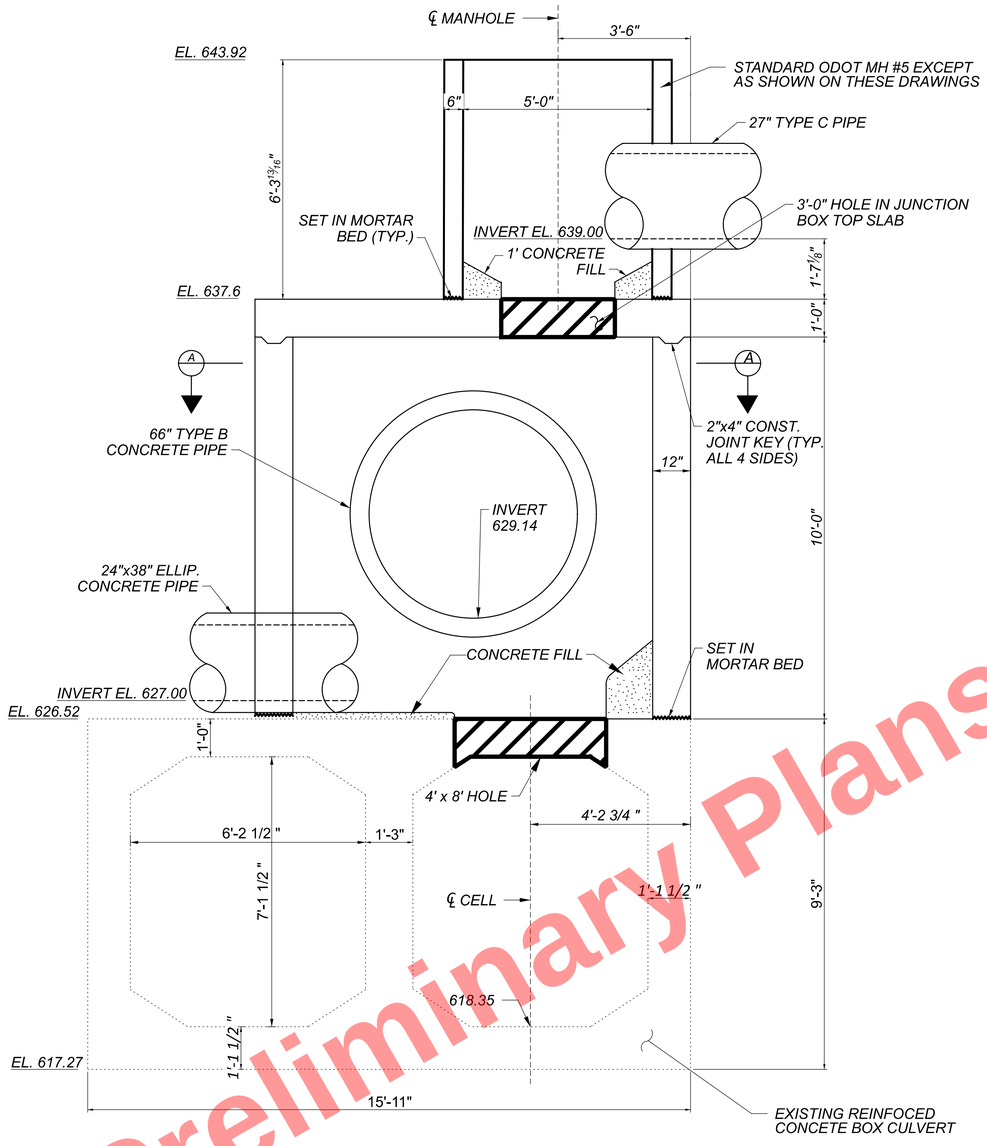
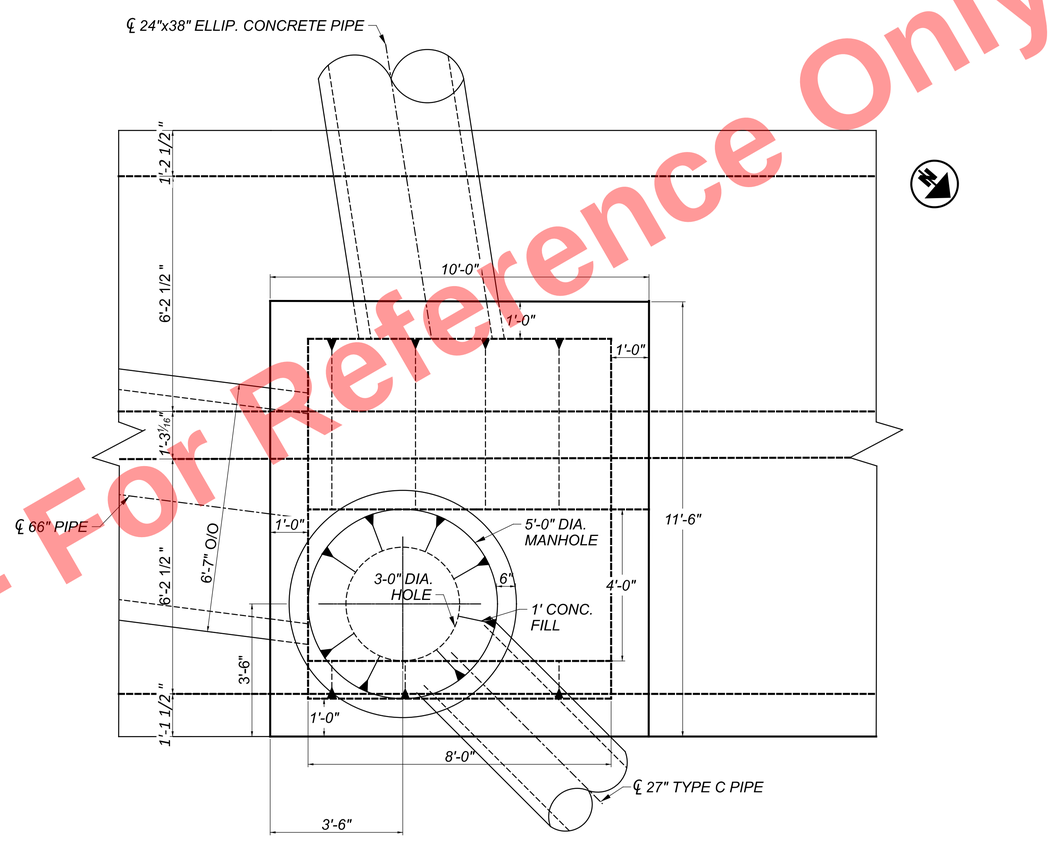
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.671 TOTAL P.1135




**ELEVATION VIEW**

SCALE: 1/2" = 1"




**PLAN VIEW**

SCALE: 1/2" = 1"

NOTES

1. REINFORCING ASTM 615 GRADE 60. EPOXY COATED PER ODOT CMS SECTION 709.
2. PROVIDE ODOT CLASS QC1 CONCRETE PER CMS 499.03
3. APPROXIMATE MANHOLE LOCATION 134+96 AND 95.5 FT LEFT ℄ WILLOW FREEWAY STATIONING.
4. VERIFY THE ANGLE OF INTERSECTION BETWEEN THE PIPE TO THE JUNCTION CHAMBER OR MANHOLE. PROVIDE A HOLE 2" LARGER THAN THE O.D. OF THE PIPE.
5. GROUT THE ANGULAR SPACE AROUND THE PIPES.

NOTE TO REVIEWER:

ADDITIONAL DETAILING AND ANNOTATION WILL BE COMPLETED DURING STAGE 3 DESIGN AND PLAN DEVELOPMENT.

Preliminary Plans - For Reference Only

DRAINAGE PLANS

D-71 JUNCTION CHAMBER DETAILS

DESIGN AGENCY

AECOM

DESIGNER HER

REVIEWER JTH 11/17/25

PROJECT ID 105743

SUBSET 0 | TOTAL 0

SHEET P.672 | TOTAL P.1135

CUY-77-11.41 - PART 1

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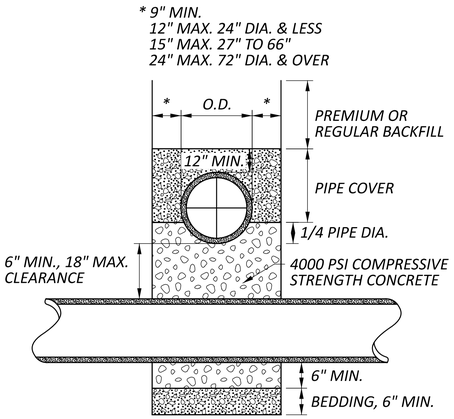
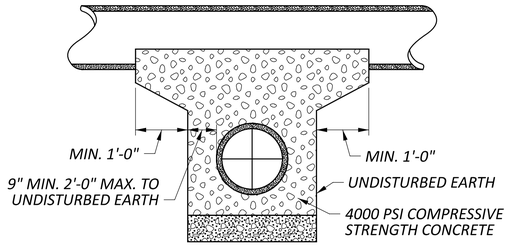
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Drainage\Sheets\105743_DD001.dgn




NOTES:

THE COSTS OF THE CONCRETE CRADLE SHALL BE INCLUDED IN THE UNIT PRICE BID OF THE NEW CONDUIT.




CONCRETE CRADLE DETAILS

NOT TO SCALE

Preliminary Plans - For Reference Only

CONCRETE CRADLE DETAIL

DESIGN AGENCY

AECOM

DESIGNER
SMS

REVIEWER
AKM 08-02-24

PROJECT ID
105743

SHEET P.673 TOTAL P.1135

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DD004.dgn

| REF NO. | SHEET NO. | MOT PHASE | SHOULDER | STATION | OFFSET | | TO | STATION | OFFSET | | 12" CONDUIT, TYPE C | CATCH BASIN, NO. 2-2B | DRAINAGE STRUCTURE, MISC.:1.25' x 18" TROUGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 611 | 611 | 611 |
| | | | | | | | | | | | FT | EACH | FT |
| | | | | I-77 MAINLINE | | | | | | | | | |
| | | 1 | NBOS | 79+00.57 | 57.61 | RT | | | | | 10 | 1 | |
| | | 3 | NBMS | 81+60.00 | 1.40 | RT | TO | 83+50.00 | 1.40 | RT | | | 211 |
| | | 3 | NBMS | 90+28.70 | 1.40 | RT | TO | 99+00.00 | 1.40 | RT | | | 882 |
| | | 3 | NBMS | 153+41.62 | 1.40 | RT | TO | 165+64.87 | 1.40 | RT | | | 1234 |
| | | 3 | NBMS | 167+70.00 | 1.40 | RT | TO | 183+50.00 | 1.40 | RT | | | 1601 |
| | | 3 | NBMS | 214+66.00 | 1.40 | RT | TO | 217+48.00 | 1.40 | RT | | | 302 |
| | | 3 | NBMS | 74+50.00 | 1.40 | RT | TO | 220+83.00 | 1.40 | RT | | | 10403* |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | | | | | 10 | 1 | 14633 |

Preliminary Plans - For Reference Only

* *SINCE THE TROUGHS ARE FORMED BY JUST NON-PERFORMING SACRIFICIAL ASPHALT SURFACE COURSE WE RECOMMEND GLOBAL TROUGH ALONG THE NB MEDIAN TO PROVIDE REDUNDANCY IN LARGER RAIN EVENTS.*

# DRAINAGE PLANS - MOT TEMPORARY DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
DL

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.674 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:38:55 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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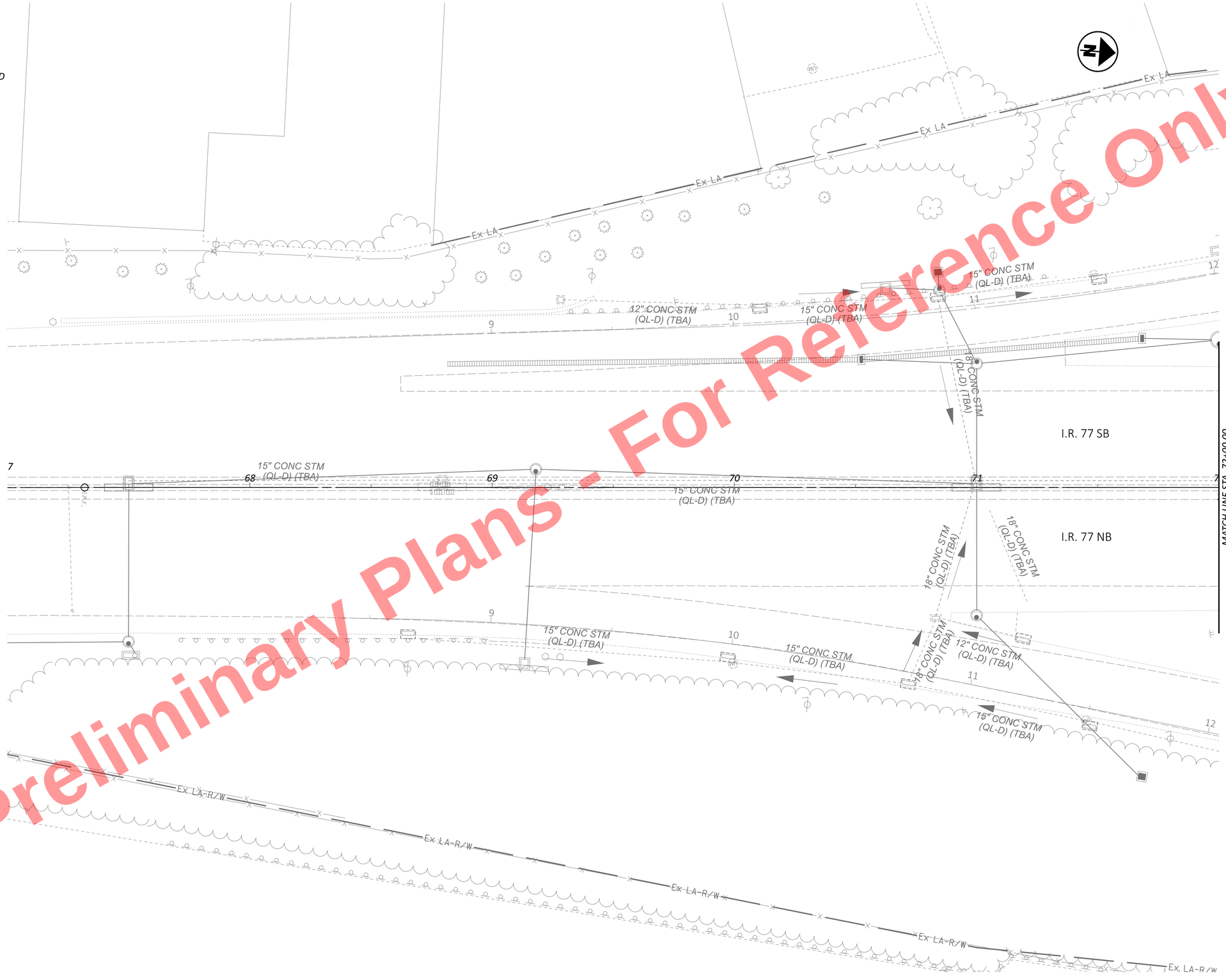
Preliminary Plans - For Reference Only

## NOTES

ALL DRAINAGE PRIOR TO THE BEGIN PROJECT LIMITS BELONGS TO THE PID 115275 PROJECT

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77 BEGINNING TO STA. 72+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.675 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:39:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## NOTES

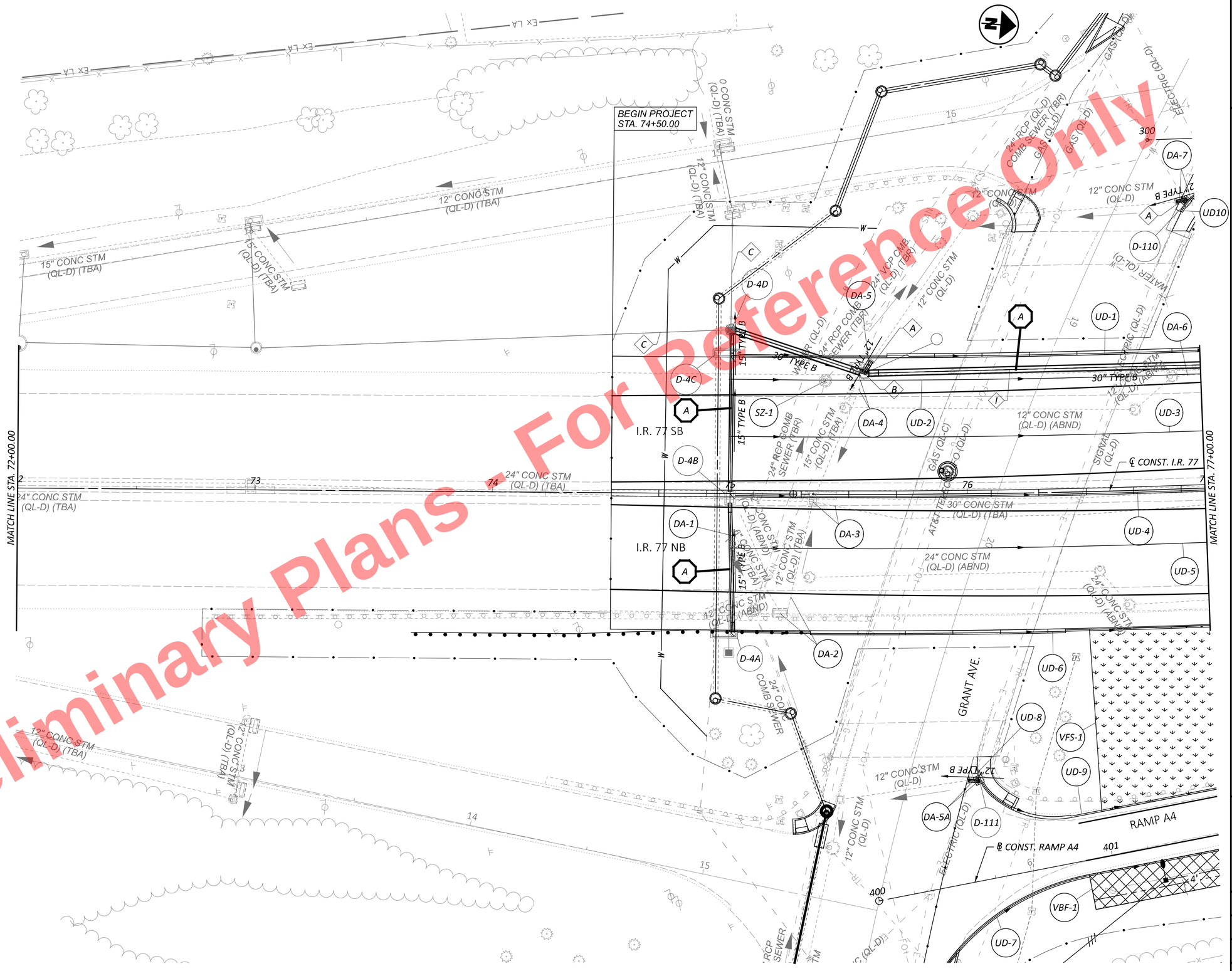
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.711 - P.712*

*FOR PROPOSED SANITARY DETAILS, SEE SHEET P.965*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 72+00.00 TO STA. 77+00.00

CUY-77-11.41 - PART 1

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.676 |
| TOTAL | P.1135 |

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## NOTES

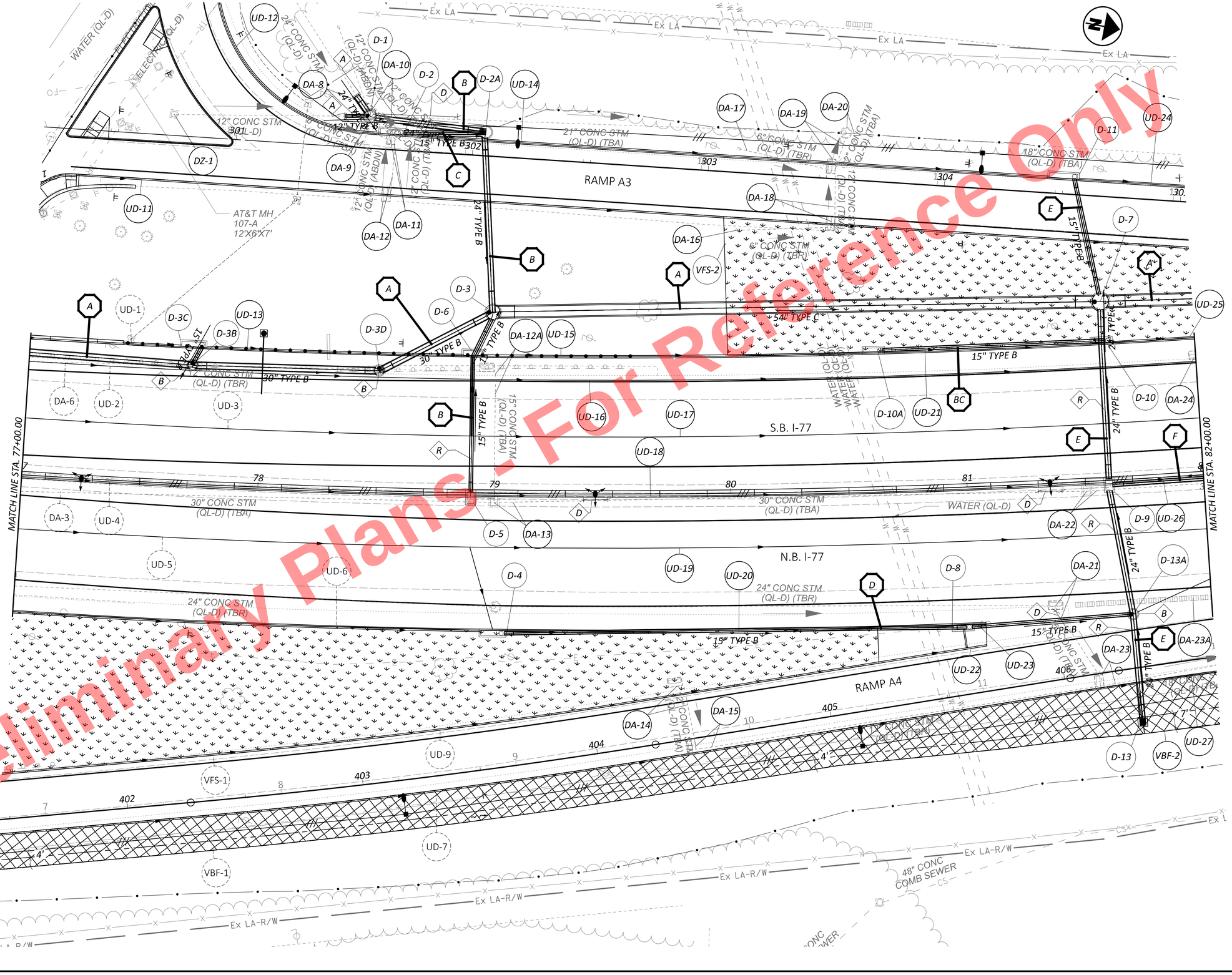
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP A3 DRAINAGE PLAN, SEE SHEETS P.708 - P.710*

*FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.711 - P.712*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 77+00.00 TO STA. 82+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.677 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:39:58 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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NOTES

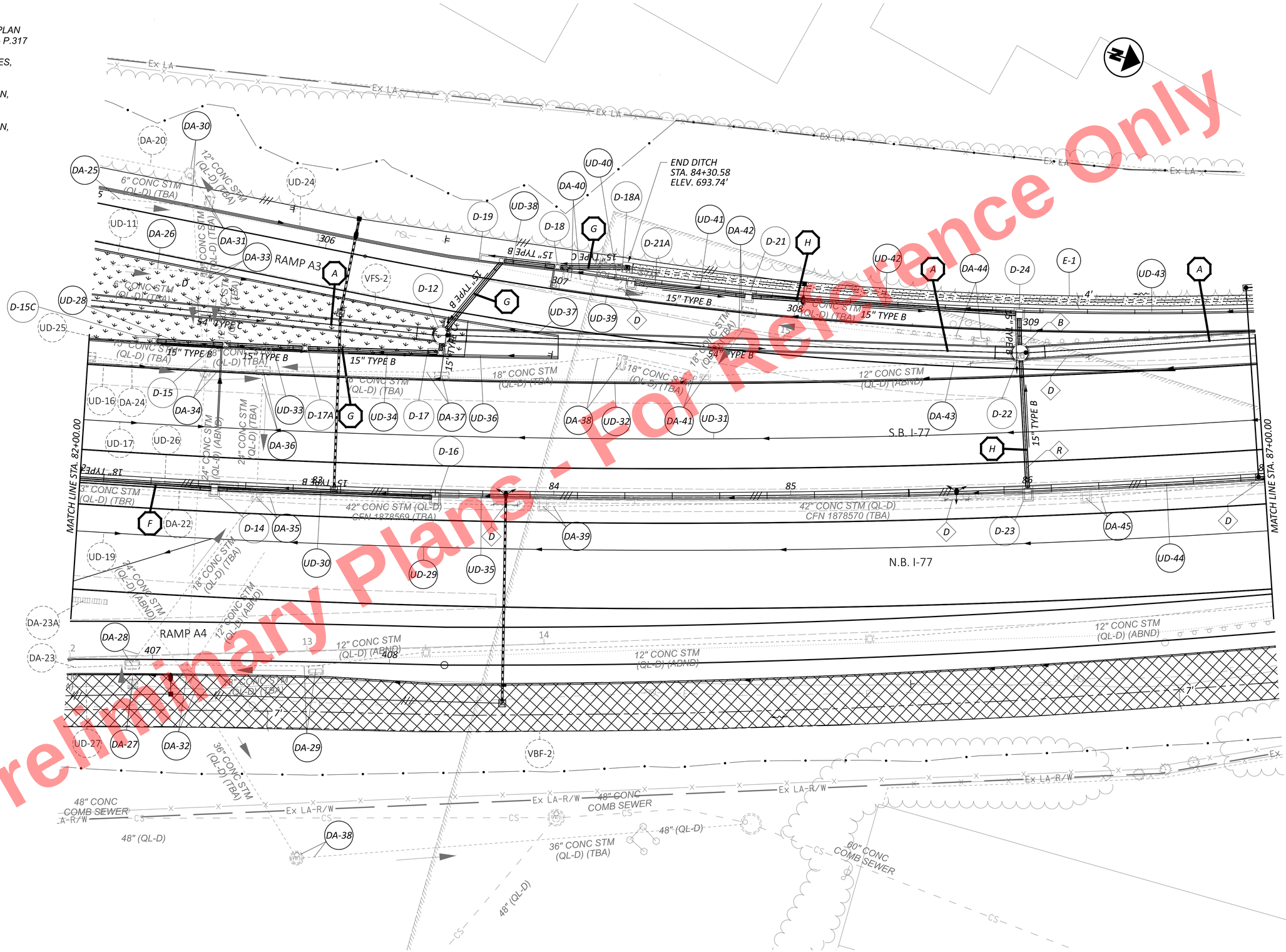
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR RAMP A3 DRAINAGE PLAN, SEE SHEETS P.708 - P.710

FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.711 - P.712

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 82+00.00 TO STA. 87+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.678 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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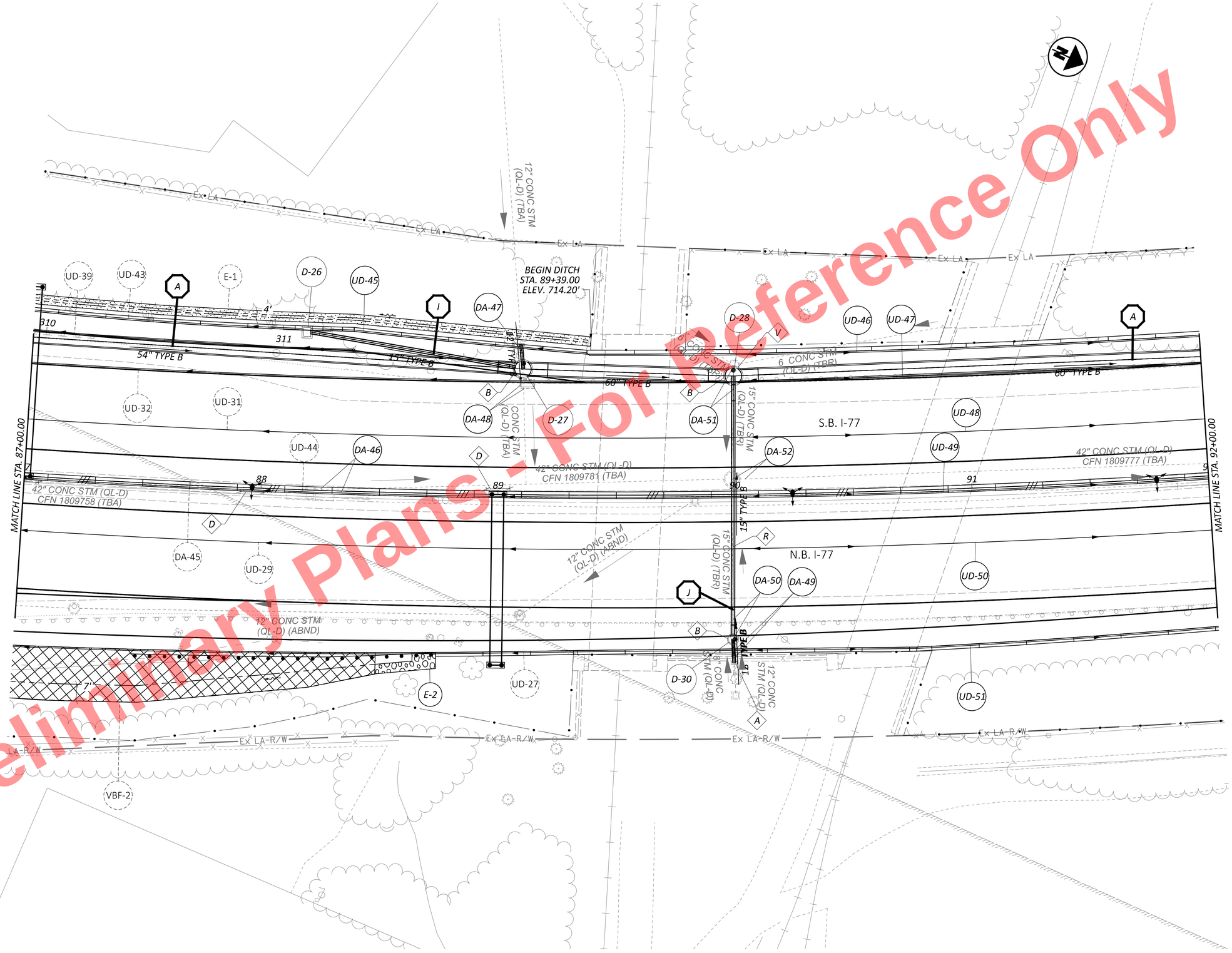
*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 87+00.00 TO STA. 92+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.679 TOTAL P.1135

CUY-77-11.41 - PART 1

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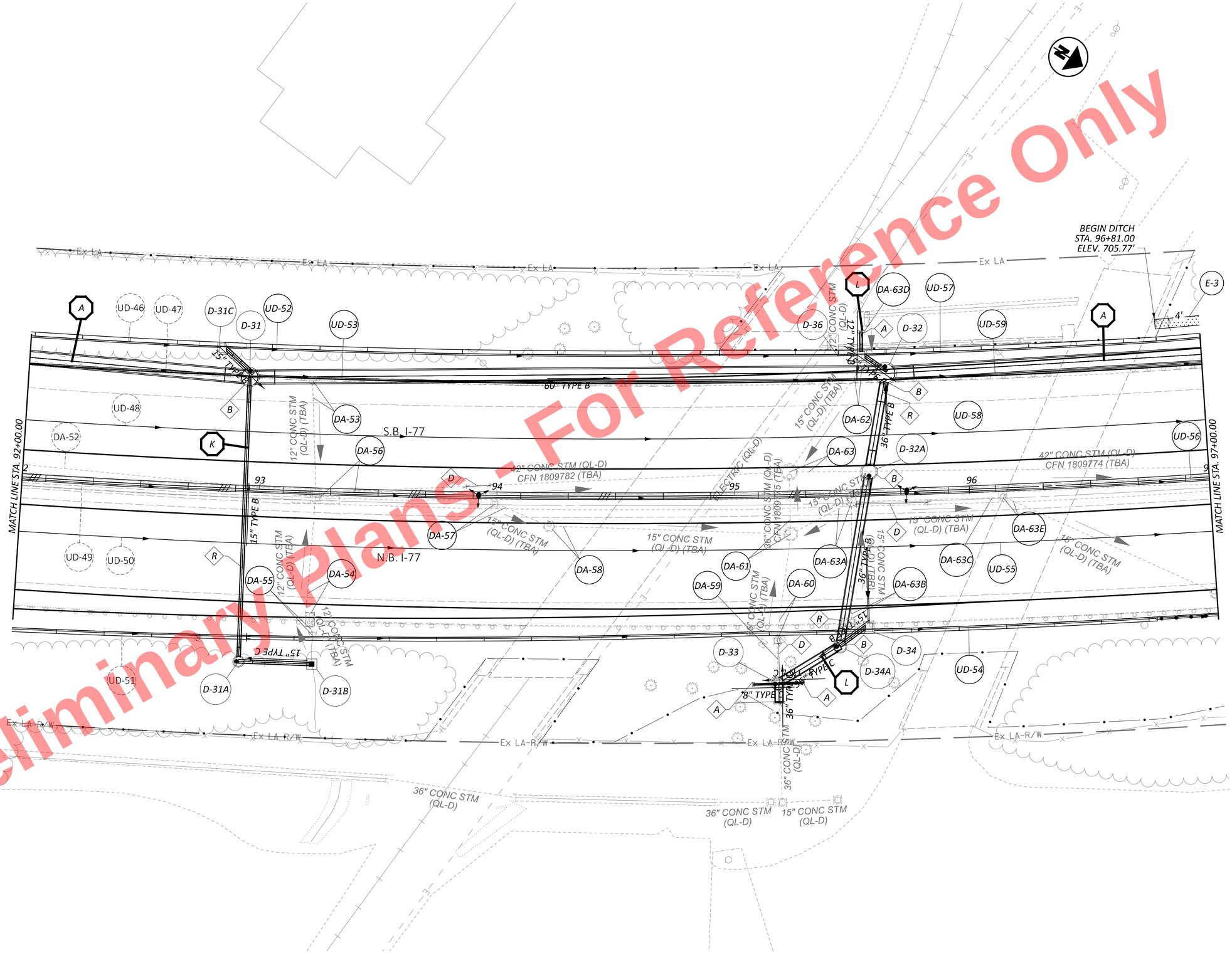
*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 92+00.00 TO STA. 97+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.680 TOTAL P.1135

CUY-77-11.41 - PART 1

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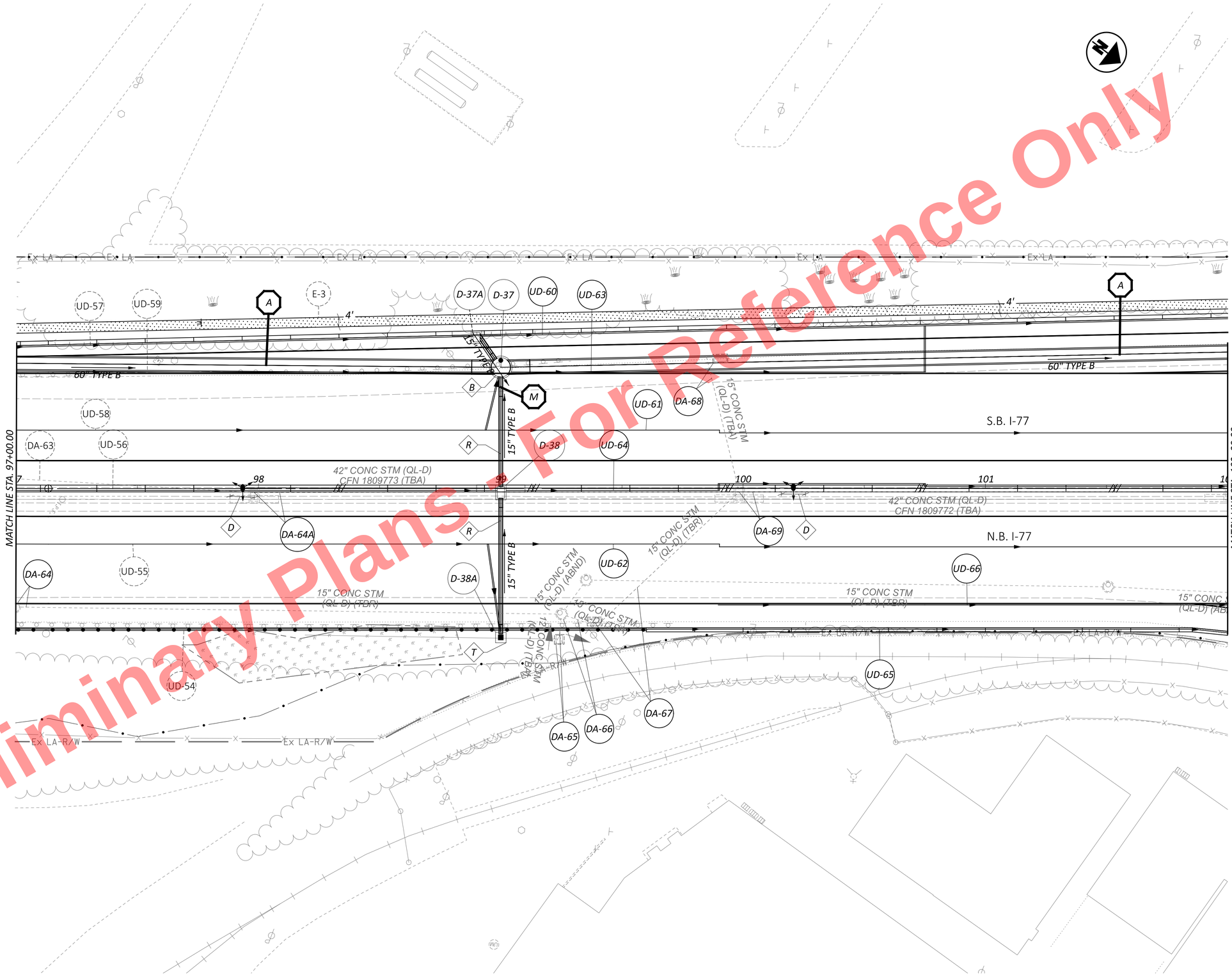
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 97+00.00 TO STA. 102+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:40:48 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.681 |
| TOTAL | P.1135 |

## NOTES

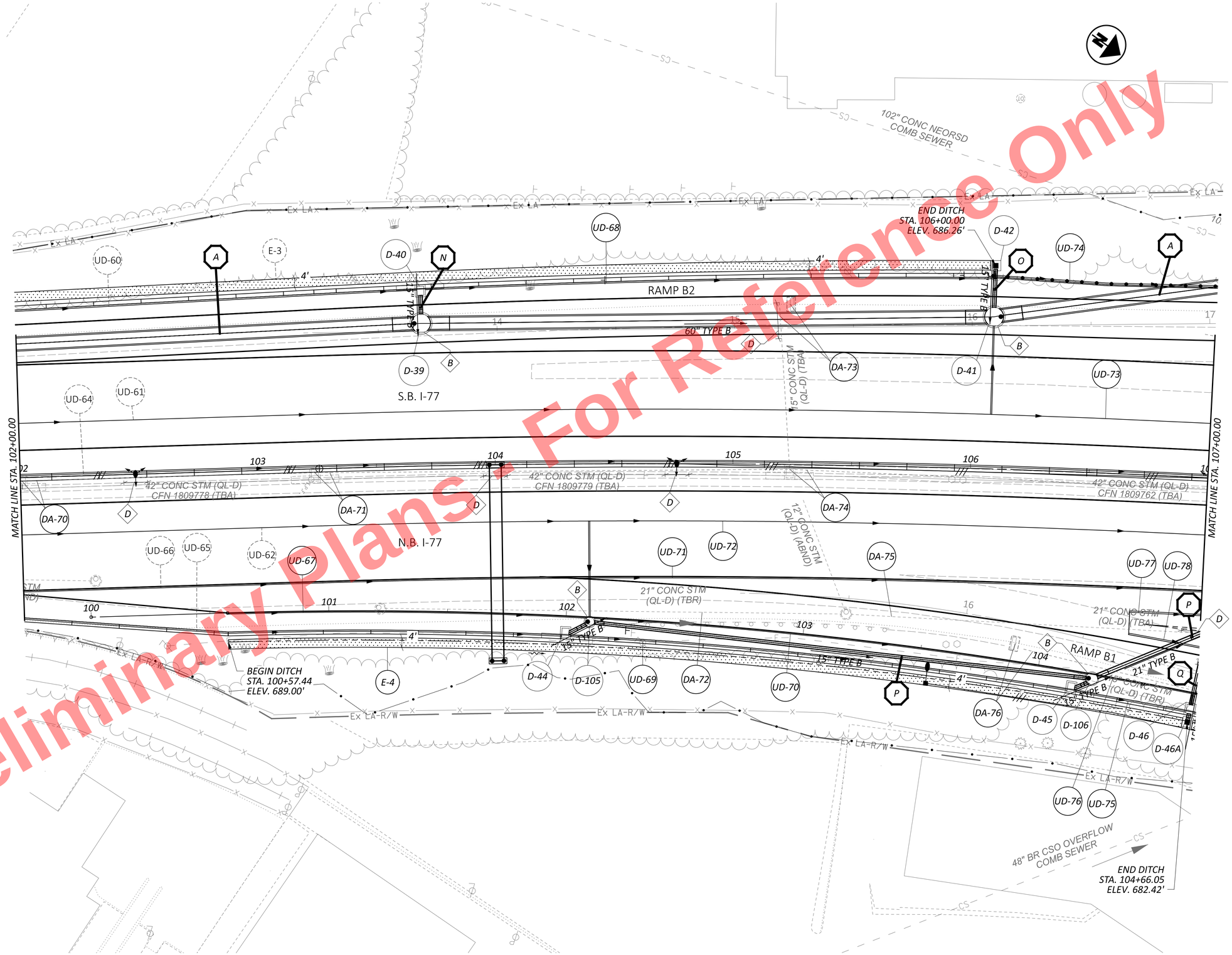
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP B1 DRAINAGE PLAN, SEE SHEETS P.713 - P.714*

*FOR RAMP B2 DRAINAGE PLAN, SEE SHEET P.715*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 102+00.00 TO STA. 107+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.682 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:41:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP B1 DRAINAGE PLAN, SEE SHEETS P.713 - P.714*

*FOR RAMP B2 DRAINAGE PLAN, SEE SHEET P.715*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 107+00.00 TO STA. 112+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.683 |
| TOTAL | P.1135 |

## NOTES

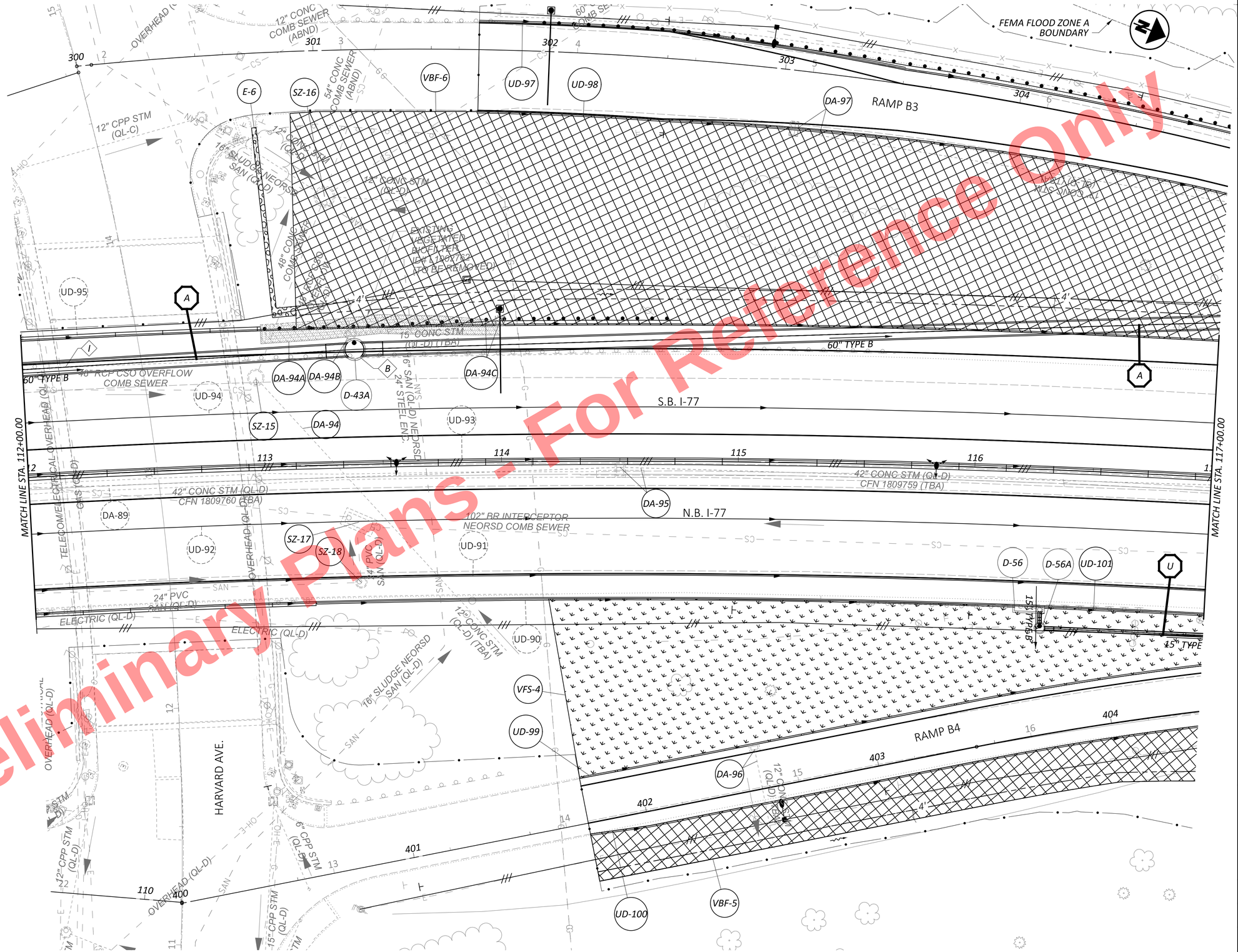
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR RAMP B3 DRAINAGE PLAN, SEE SHEETS P.716 - P.718

FOR RAMP B4 DRAINAGE PLAN, SEE SHEETS P.719 - P.720

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 112+00.00 TO STA. 117+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.684 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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## NOTES

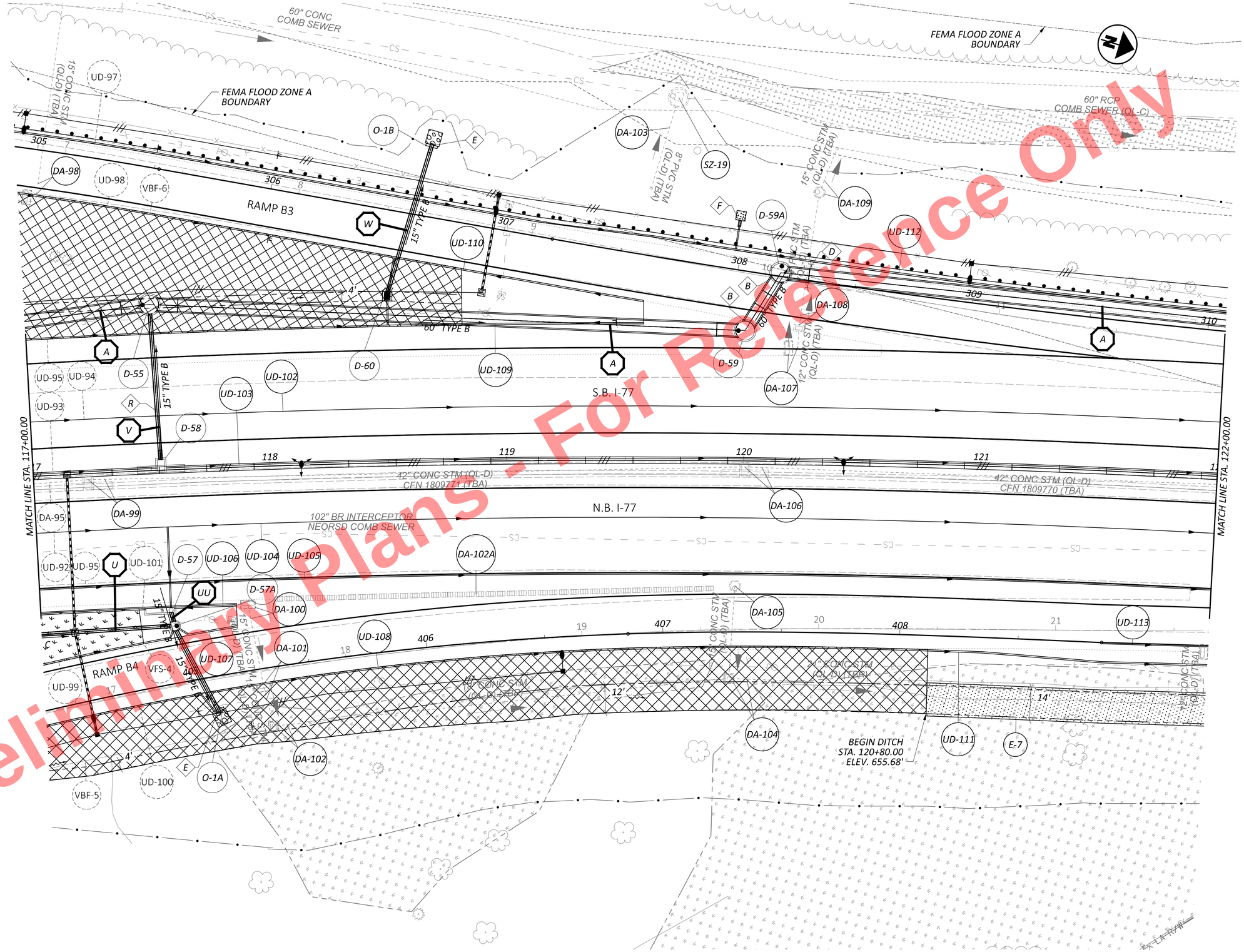
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP B3 DRAINAGE PLAN, SEE SHEETS P.716 - P.718*

*FOR RAMP B4 DRAINAGE PLAN, SEE SHEETS P.719 - P.720*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 117+00.00 TO STA. 122+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.685 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:41:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## NOTES

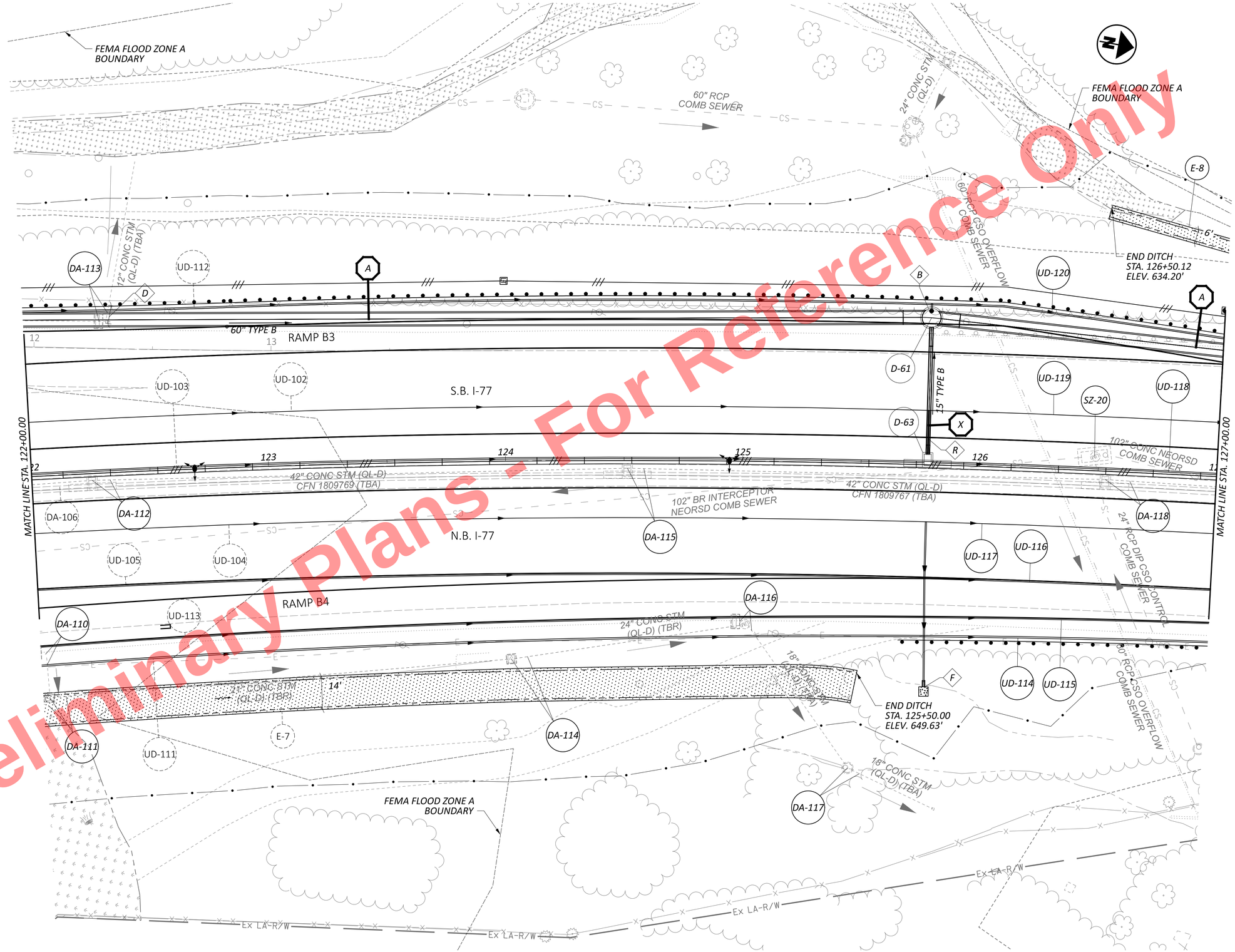
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR RAMP B3 DRAINAGE PLAN, SEE SHEETS P.716 - P.718

FOR RAMP B4 DRAINAGE PLAN, SEE SHEETS P.719 - P.720

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 122+00.00 TO STA. 127+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:41:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.686 |
| TOTAL | P.1135 |

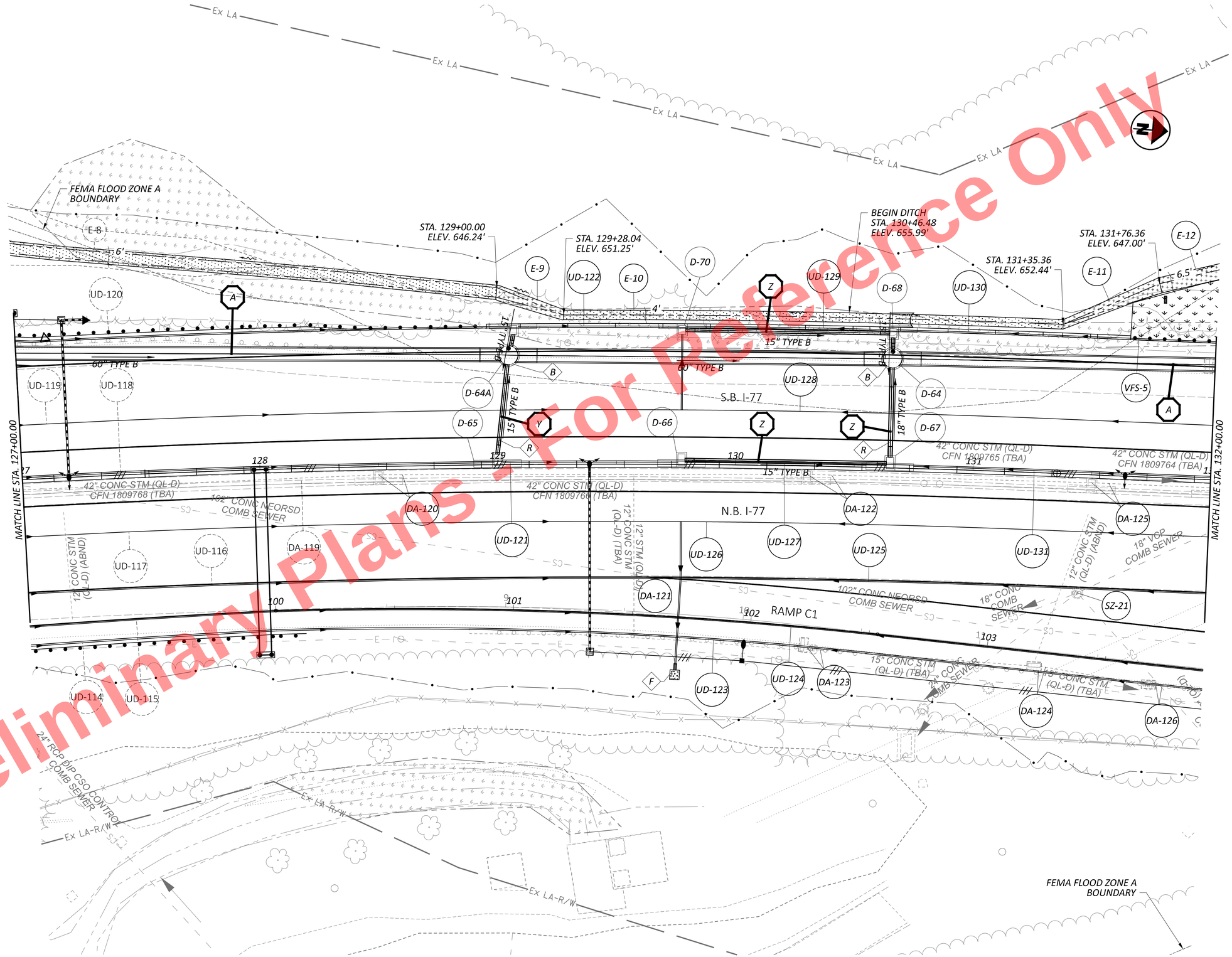
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP C1 DRAINAGE PLAN, SEE SHEETS P.721 - P.723*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 127+00.00 TO STA. 132+00.00

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.687 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:42:04 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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MODEL: CLP_I077 - Plan 14 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:42:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DP014.dgn

CUY-77-11.41 - PART 1

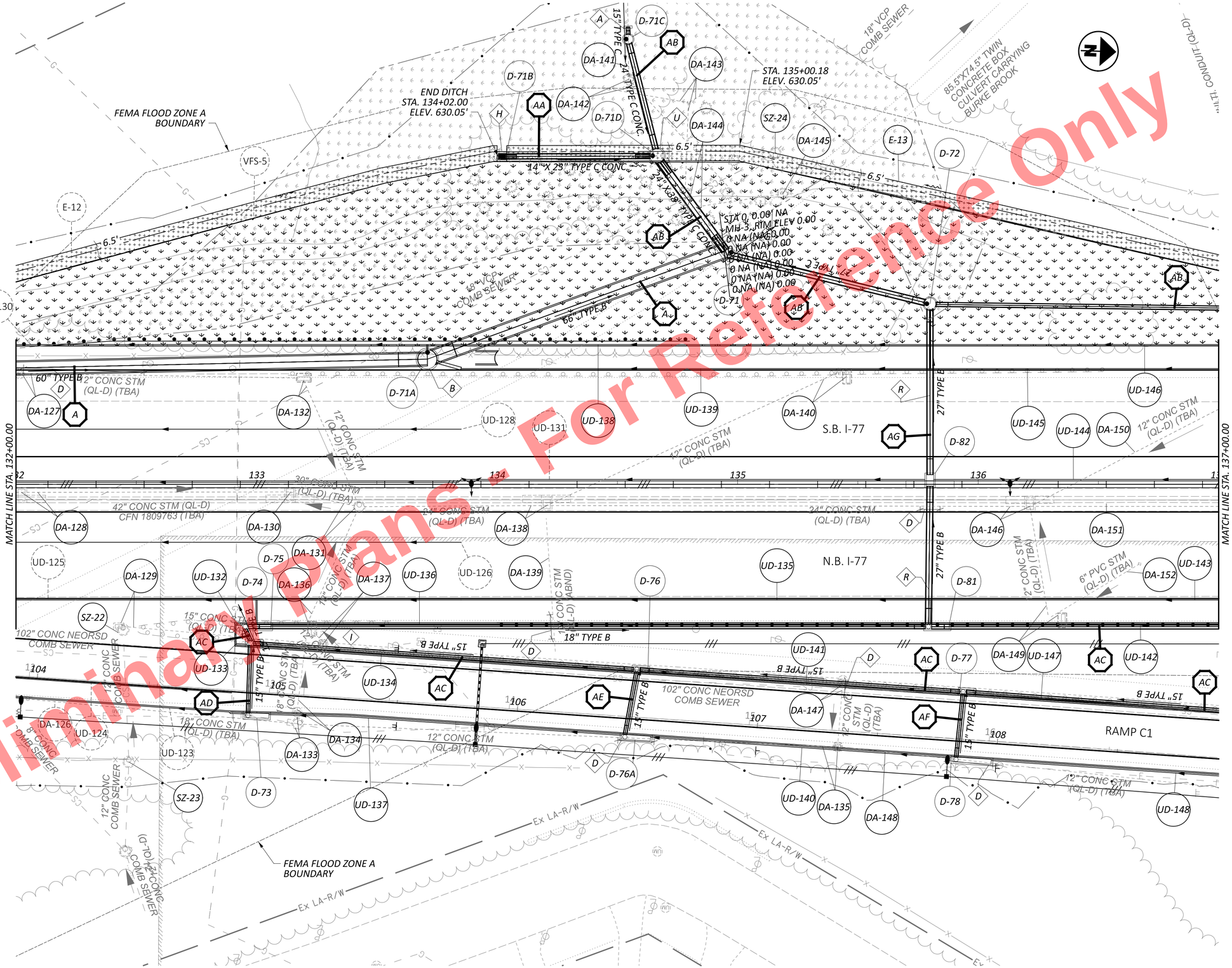
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP C1 DRAINAGE PLAN, SEE SHEETS P.721 - P.723*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

**NOTE TO REVIEWER:**

*THE EXISTING INLET TO BE ABANDONED AT APPROX. STA. 133+15 WILL BE DETAILED IN STAGE 3.*

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 132+00.00 TO STA. 137+00.00

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.688 |
| TOTAL | P.1135 |

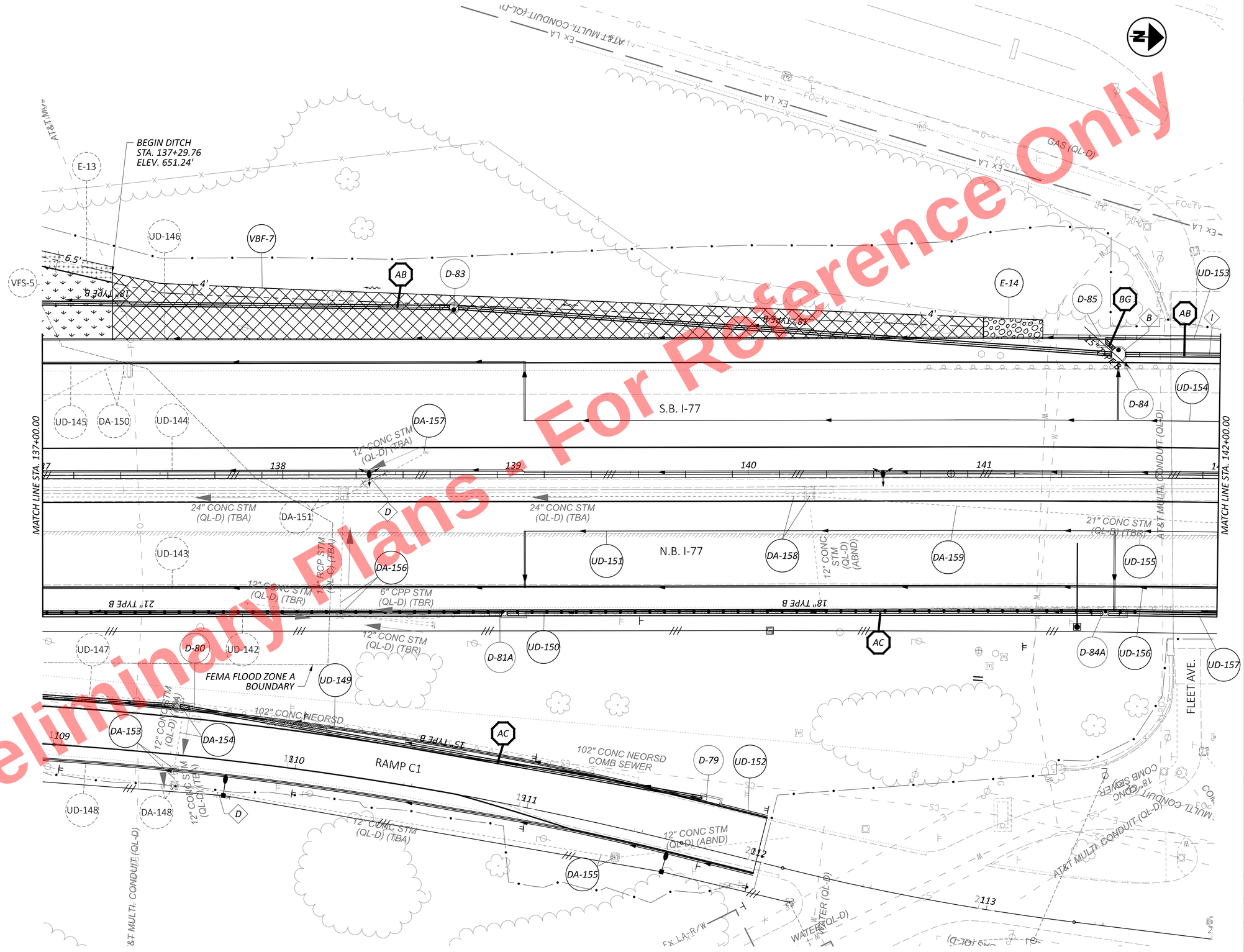
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP C1 DRAINAGE PLAN, SEE SHEETS P.721 - P.723*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 137+00.00 TO STA. 142+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:42:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCfx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.689 |
| TOTAL | P.1135 |

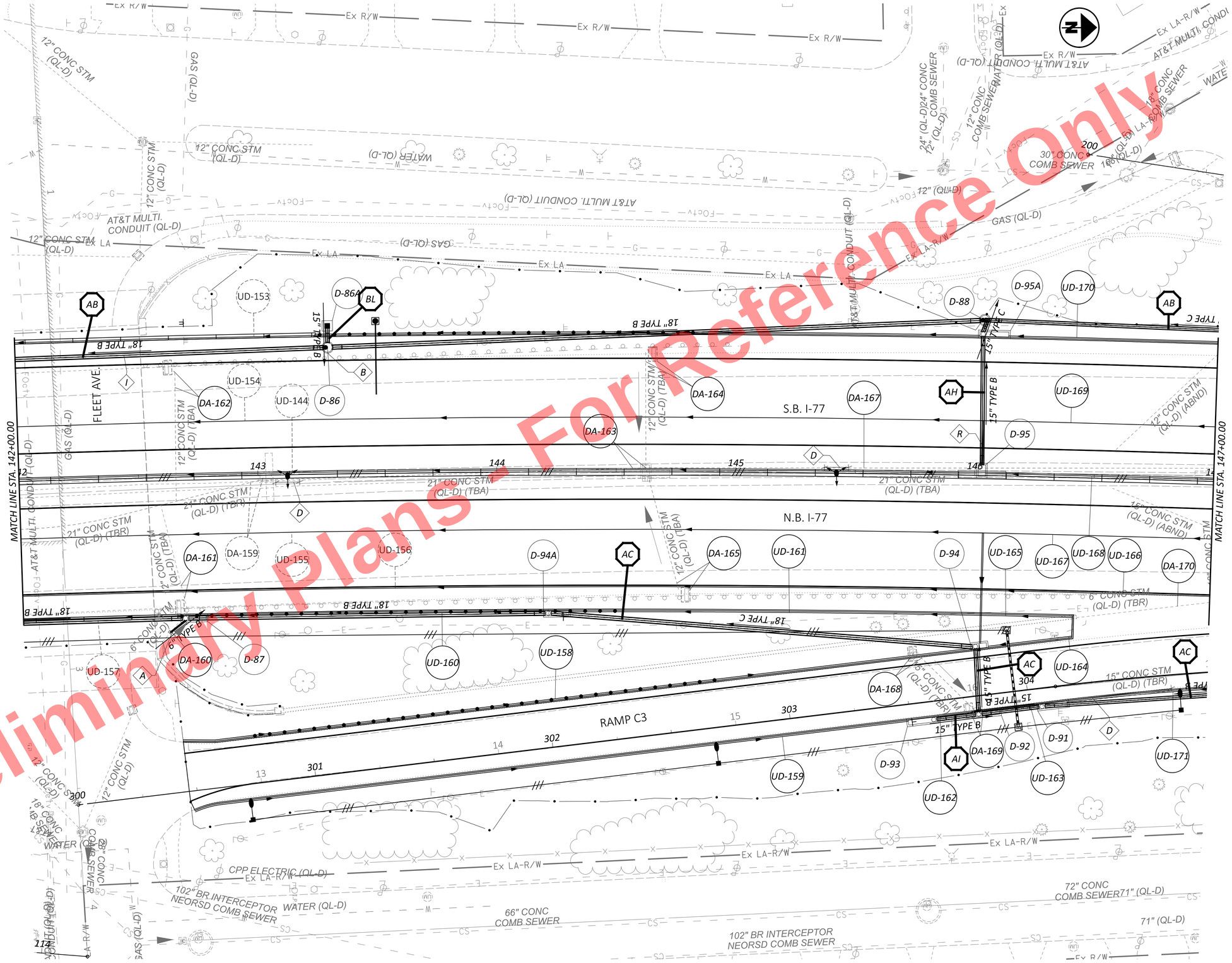
## NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR RAMP C3 DRAINAGE PLAN, SEE SHEETS P.726 - P.727

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 142+00.00 TO STA. 147+00.00

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.690 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:42:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

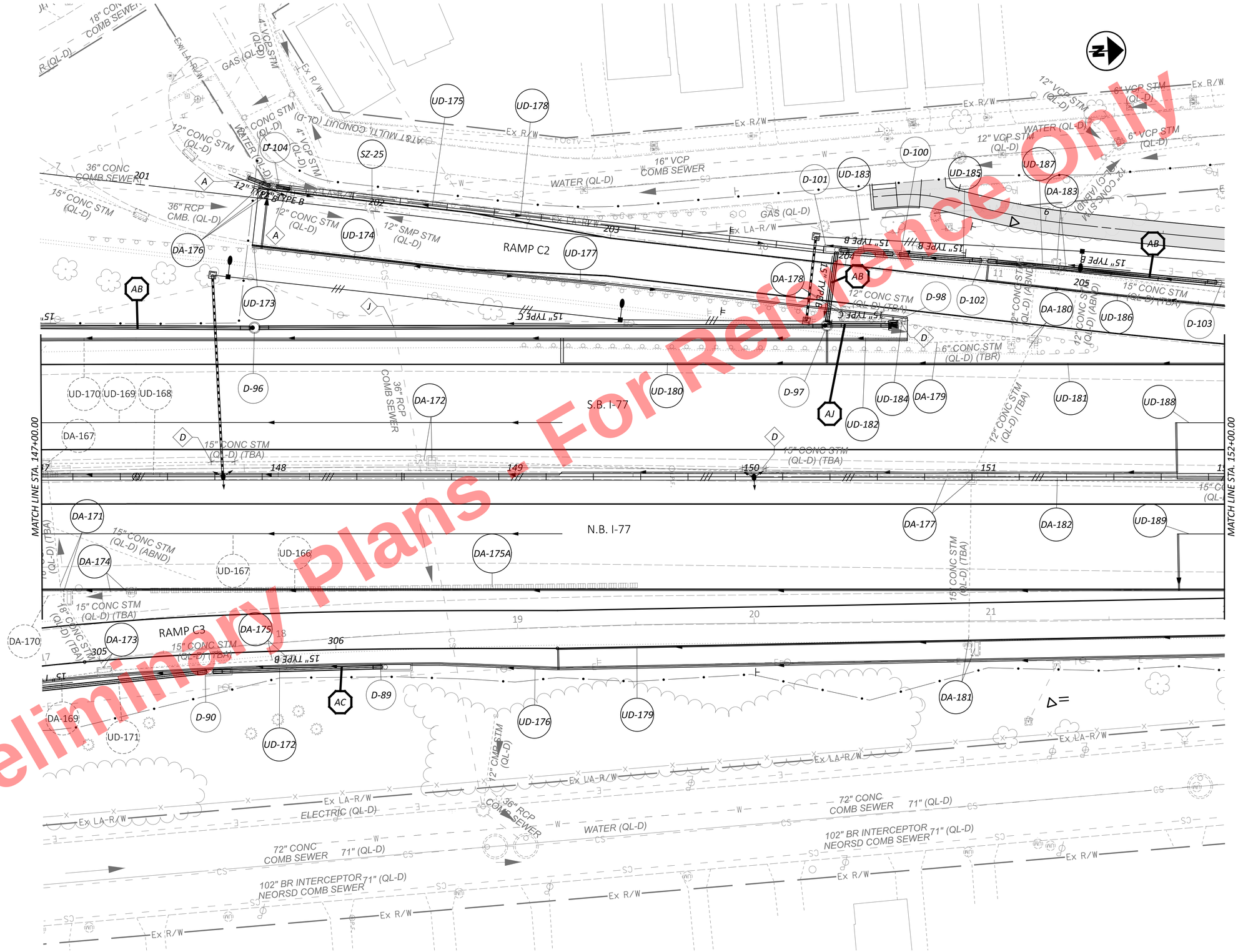
*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP C2 DRAINAGE PLAN, SEE SHEETS P.724 - P.725*

*FOR RAMP C3 DRAINAGE PLAN, SEE SHEETS P.726 - P.727*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*

*NOTE TO REVIEWER: DRAINAGE AT THAT START OF THE MUP AREA WILL BE REFINED DURING STAGE 3.*




Preliminary Plans
For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 147+00.00 TO STA. 152+00.00

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.691 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 17 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:42:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCfx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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000-Engineering\Drainage\Sheets\105743_DP017.dgn

## NOTES

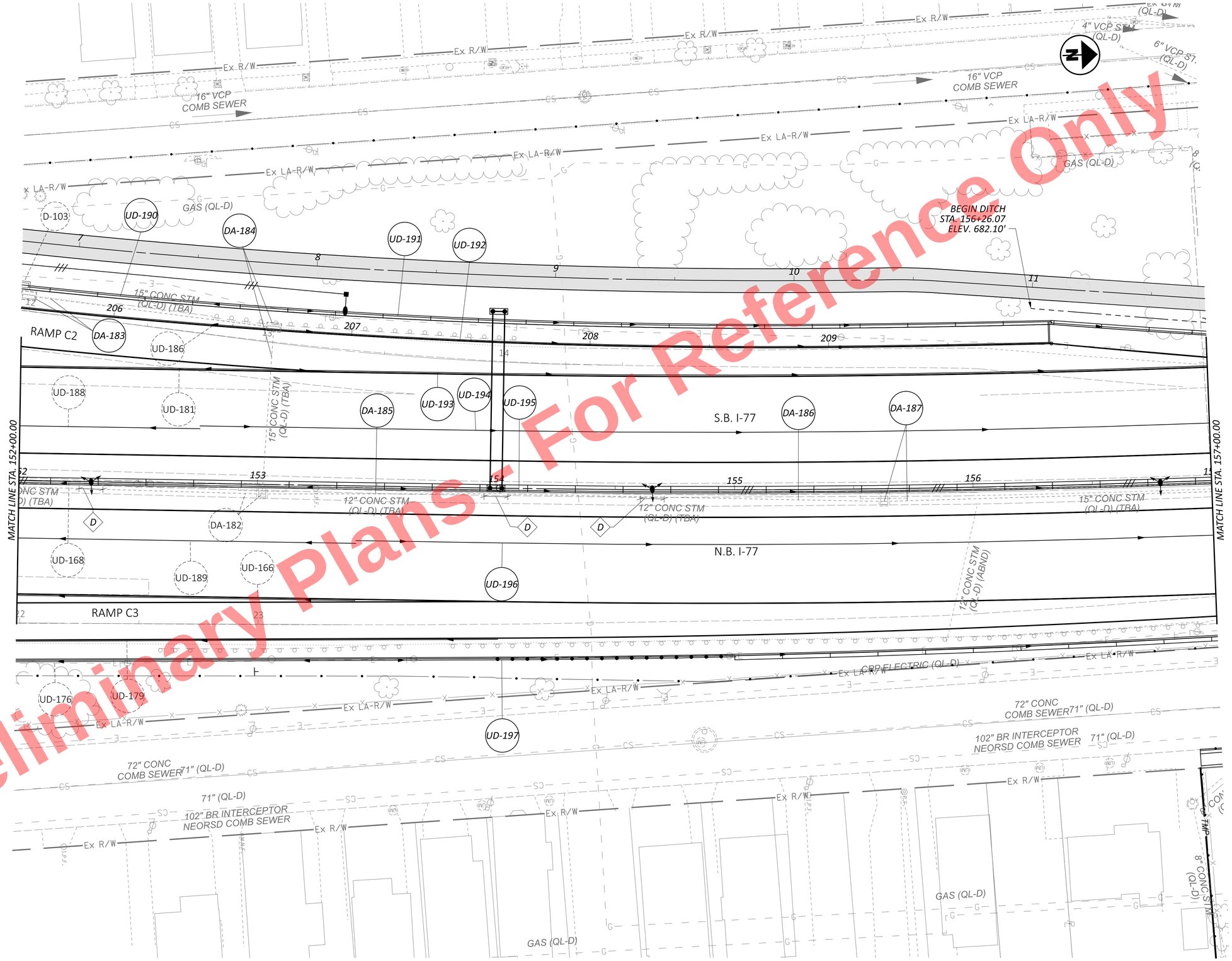
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP C2 DRAINAGE PLAN, SEE SHEETS P.724 - P.725*

*FOR RAMP C3 DRAINAGE PLAN, SEE SHEETS P.726 - P.727*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 152+00.00 TO STA. 157+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.692 TOTAL P.1135

CUY-77-11.41 - PART 1

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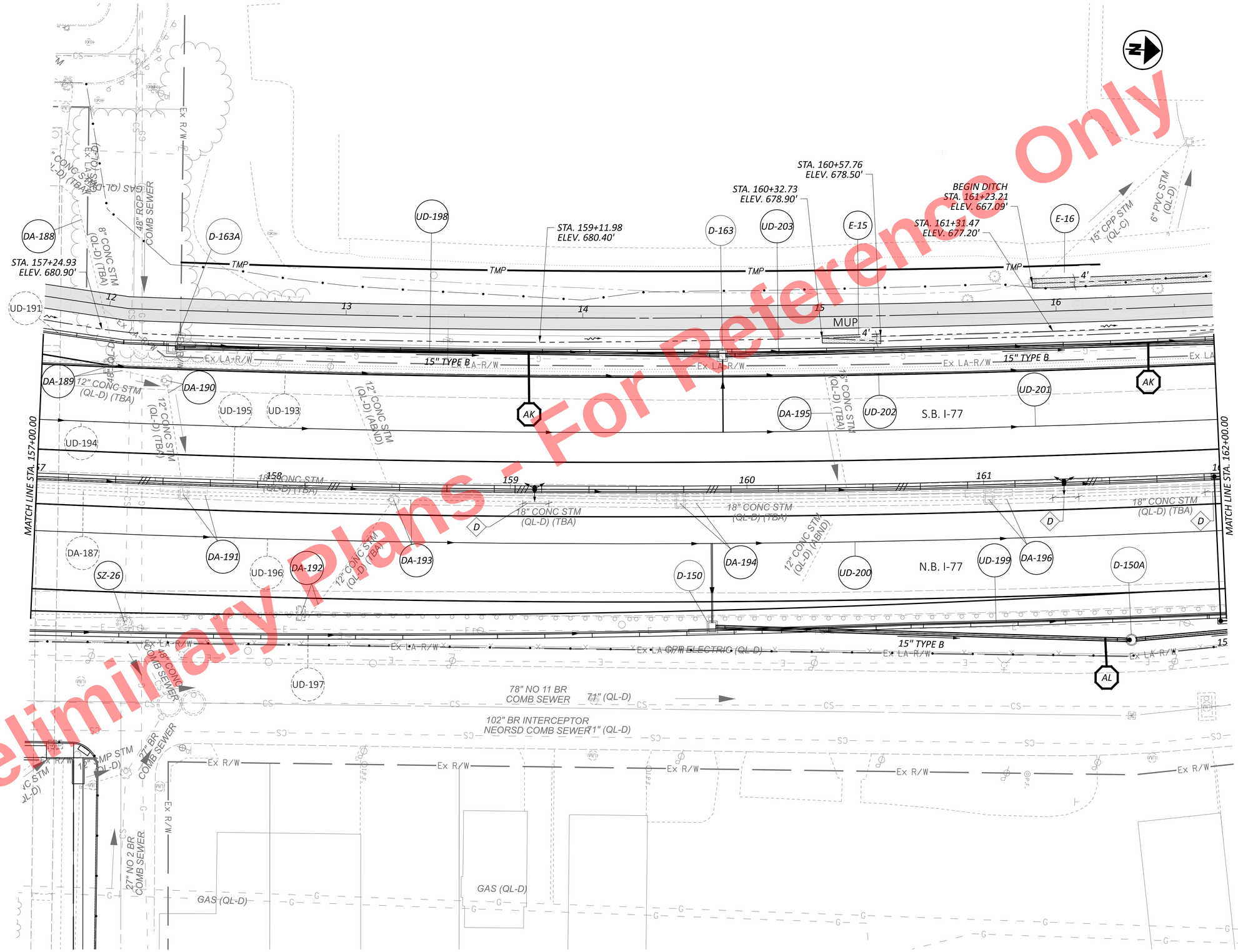
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 157+00.00 TO STA. 162+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.693 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 19 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:43:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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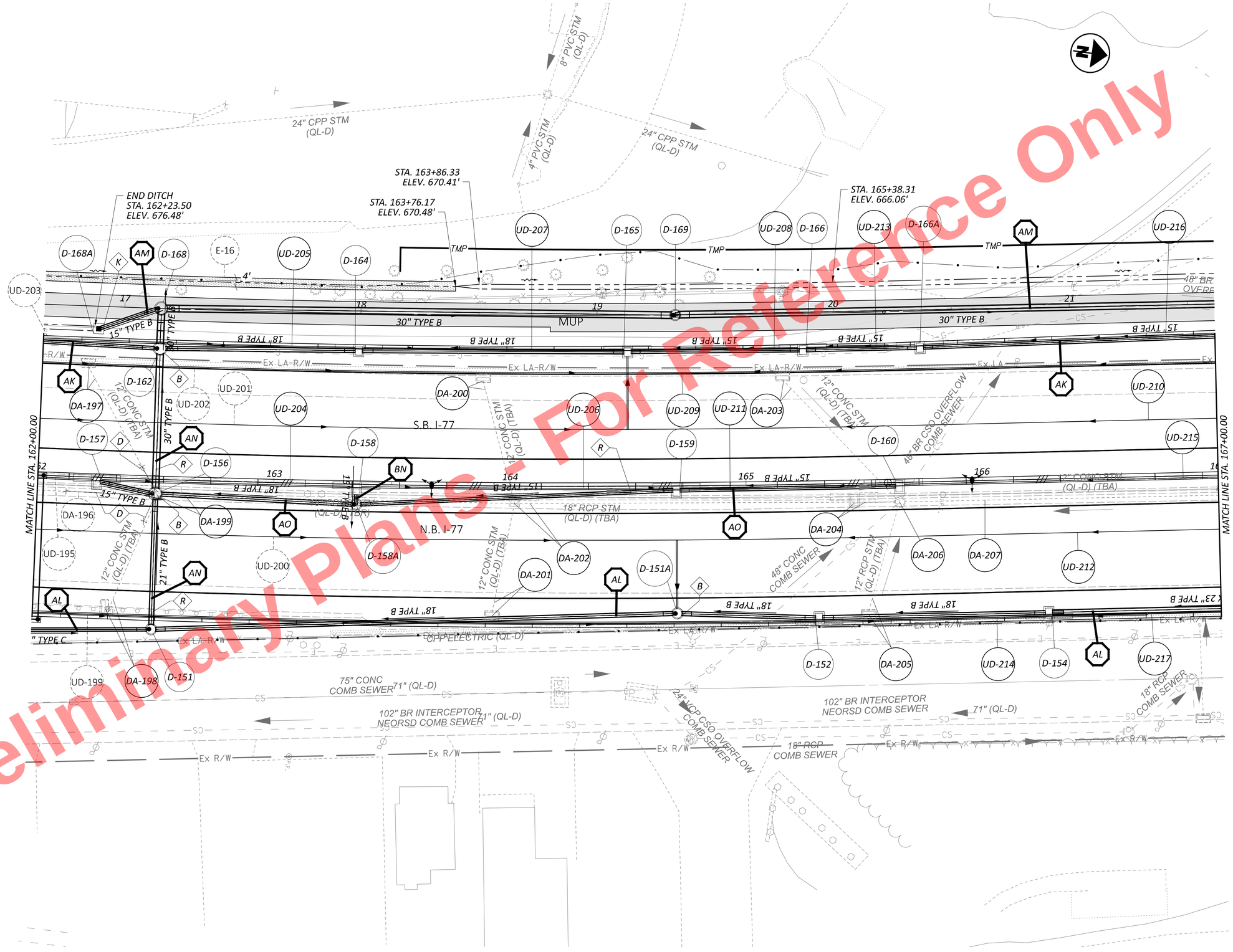
CUY-77-11.41 - PART 1

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 162+00.00 TO STA. 167+00.00

DESIGN AGENCY
AECOM

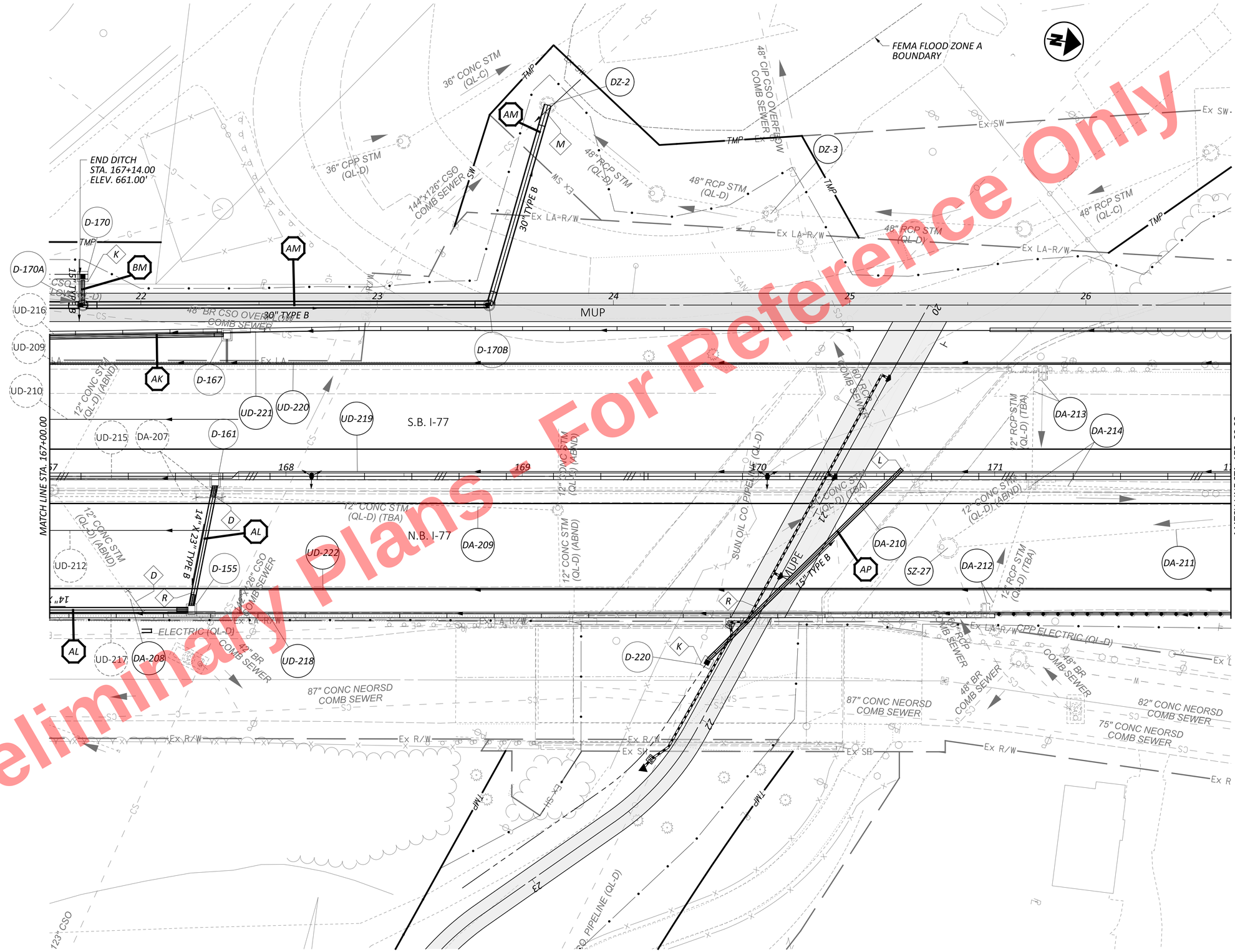
| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.694 |
| TOTAL | P.1135 |

## NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




For Reference Only
Preliminary Plans

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 167+00.00 TO STA. 172+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 21 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:43:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCfx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

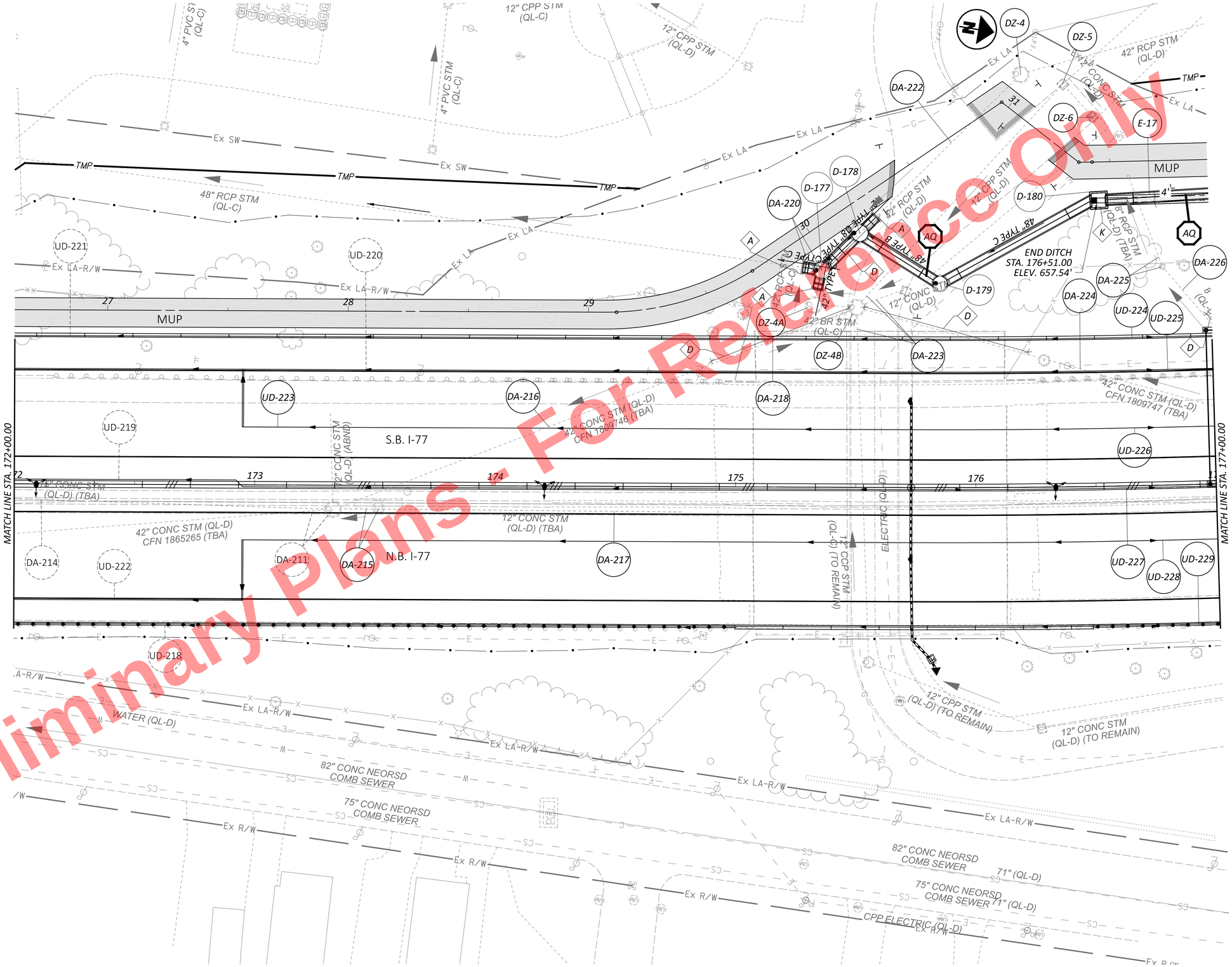
| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.695 |
| TOTAL | P.1135 |

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 172+00.00 TO STA. 177+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.696 TOTAL P.1135

CUY-77-11.41 - PART 1

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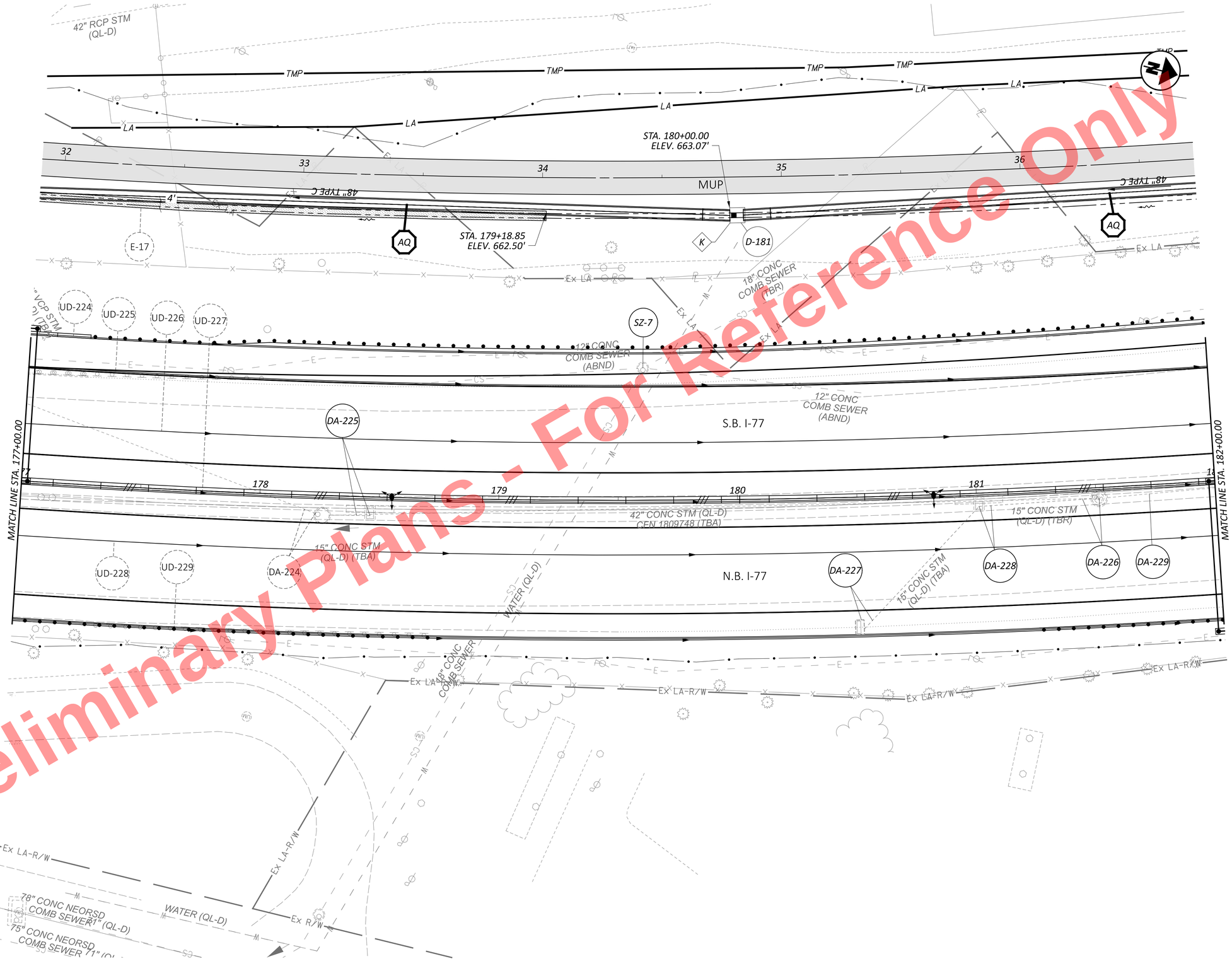
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 177+00.00 TO STA. 182+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.697 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 23 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:44:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCfx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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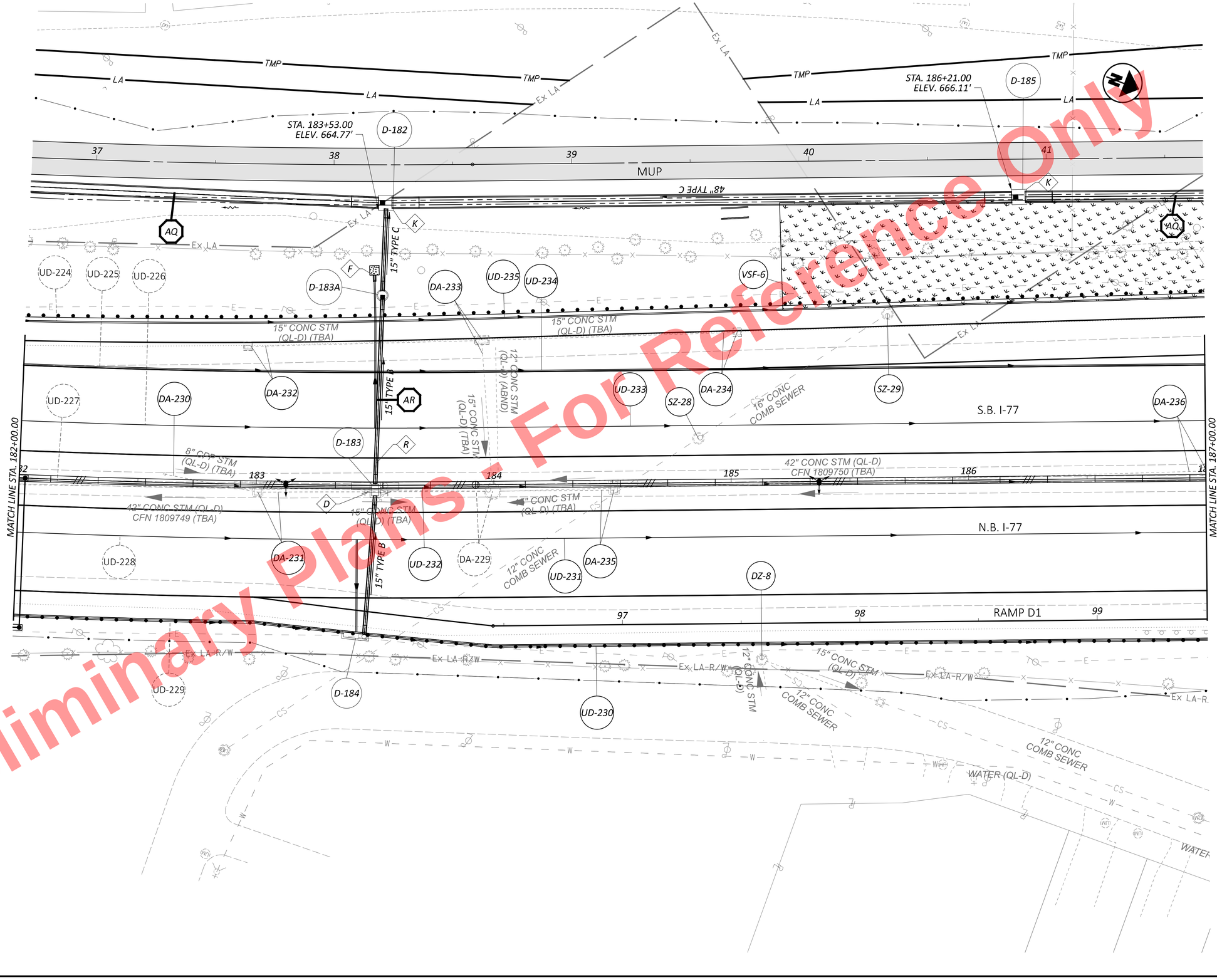
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP D1 DRAINAGE PLAN, SEE SHEETS P.728 - P.730*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 182+00.00 TO STA. 187+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.698 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 24 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:44:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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## NOTES

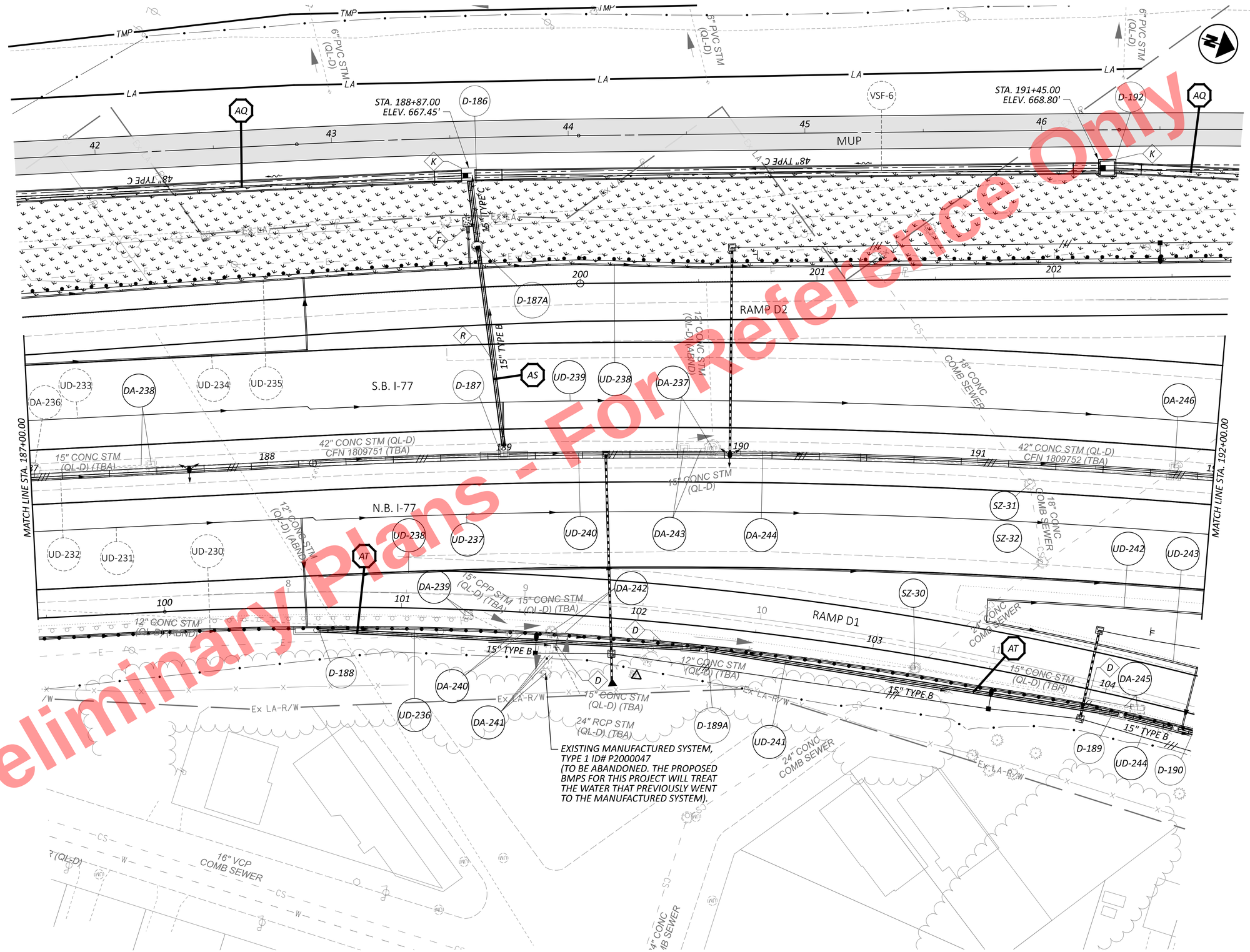
*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP D1 DRAINAGE PLAN, SEE SHEETS P.728 - P.730*

*FOR RAMP D2 DRAINAGE PLAN, SEE SHEETS P.731 - P.732*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 187+00.00 TO STA. 192+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.699 TOTAL P.1135

MODEL: CLP_I077 - Plan 25 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:44:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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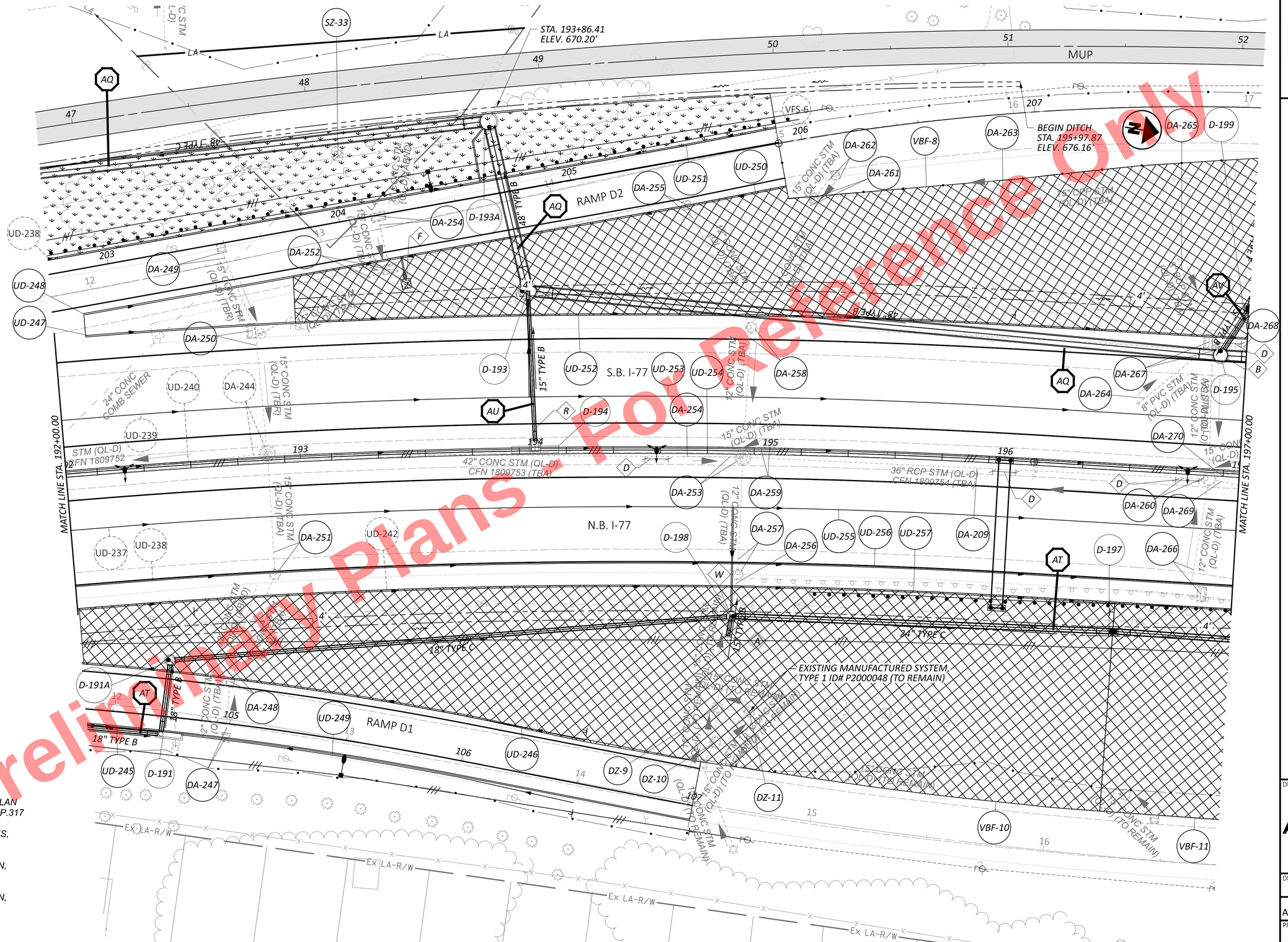


Preliminary Plans - For Reference Only

## NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR RAMP D1 DRAINAGE PLAN, SEE SHEETS P.728 - P.730

FOR RAMP D2 DRAINAGE PLAN, SEE SHEETS P.731 - P.732

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 192+00.00 TO STA. 197+00.00

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.700 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 26 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:44:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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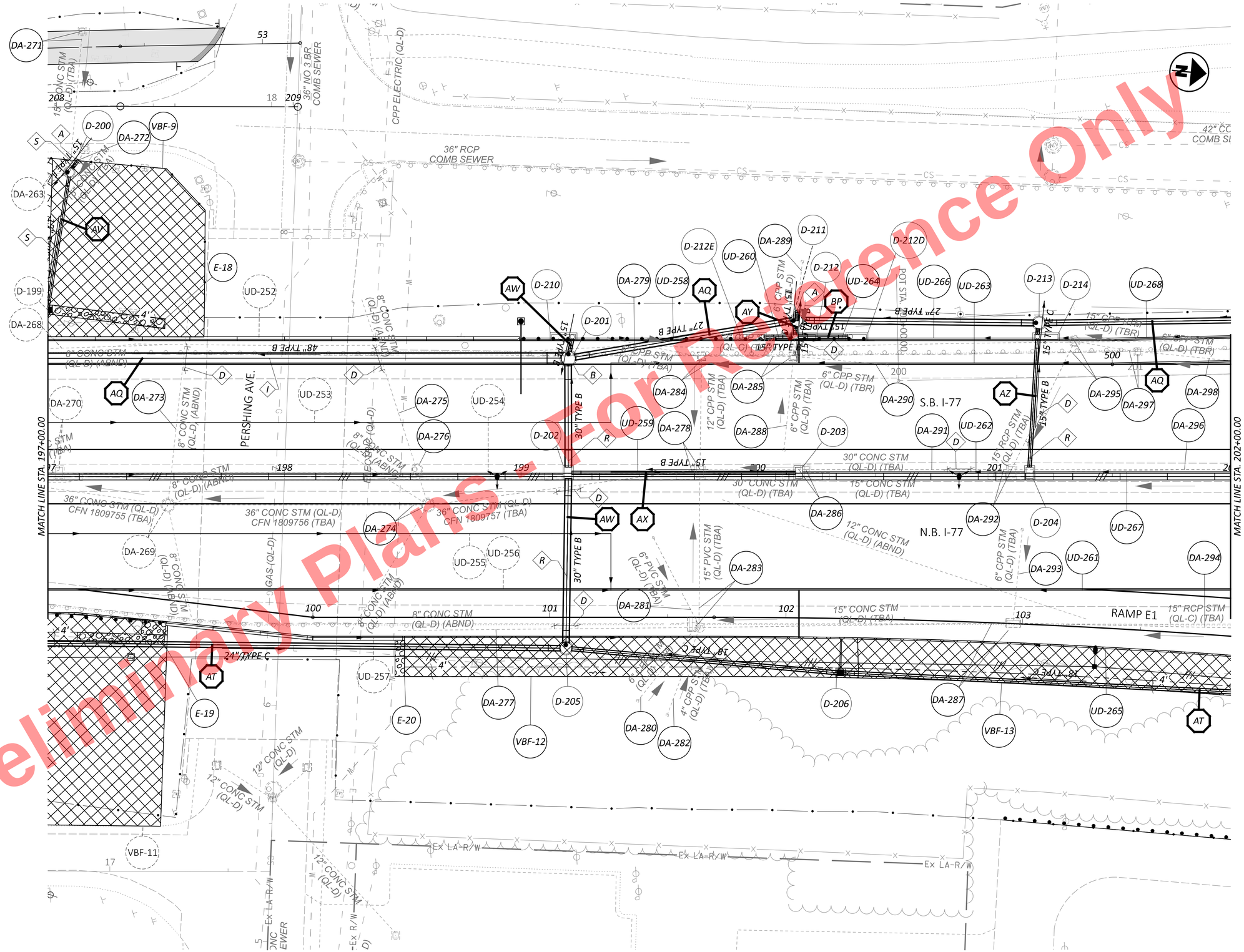
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP E1 DRAINAGE PLAN, SEE SHEETS P.733 - P.735*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 197+00.00 TO STA. 202+00.00

| | |
|---|---|
| DESIGN AGENCY | AECOM |
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.701 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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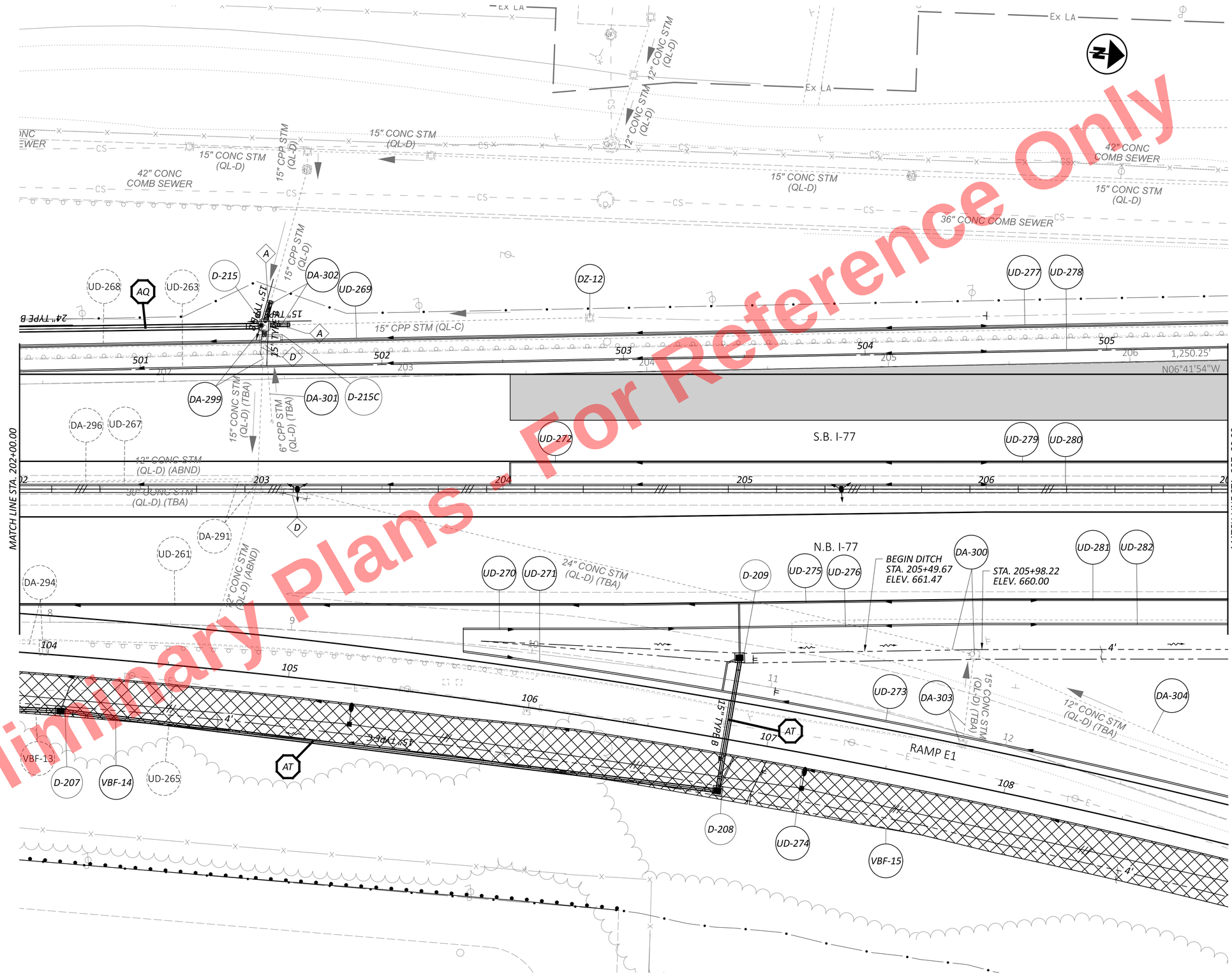
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP E1 DRAINAGE PLAN, SEE SHEETS P.733 - P.735*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 202+00.00 TO STA. 207+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.702 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 28 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:45:12 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DP028.dgn

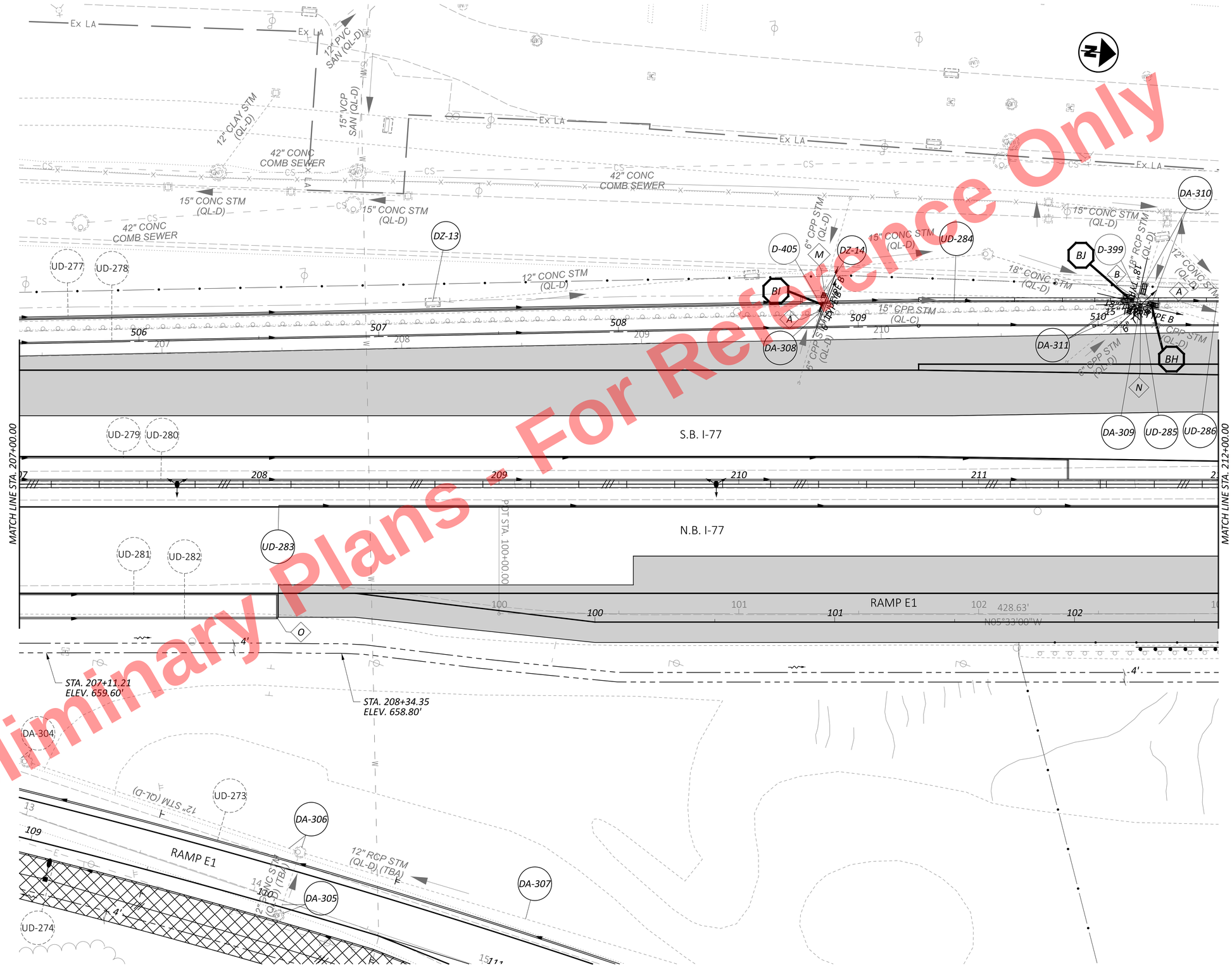
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR RAMP E1 DRAINAGE PLAN, SEE SHEETS P.733 - P.735*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

# DRAINAGE PLAN - I.R. 77
# STA. 207+00.00 TO STA. 212+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.703 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 29 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:45:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCfx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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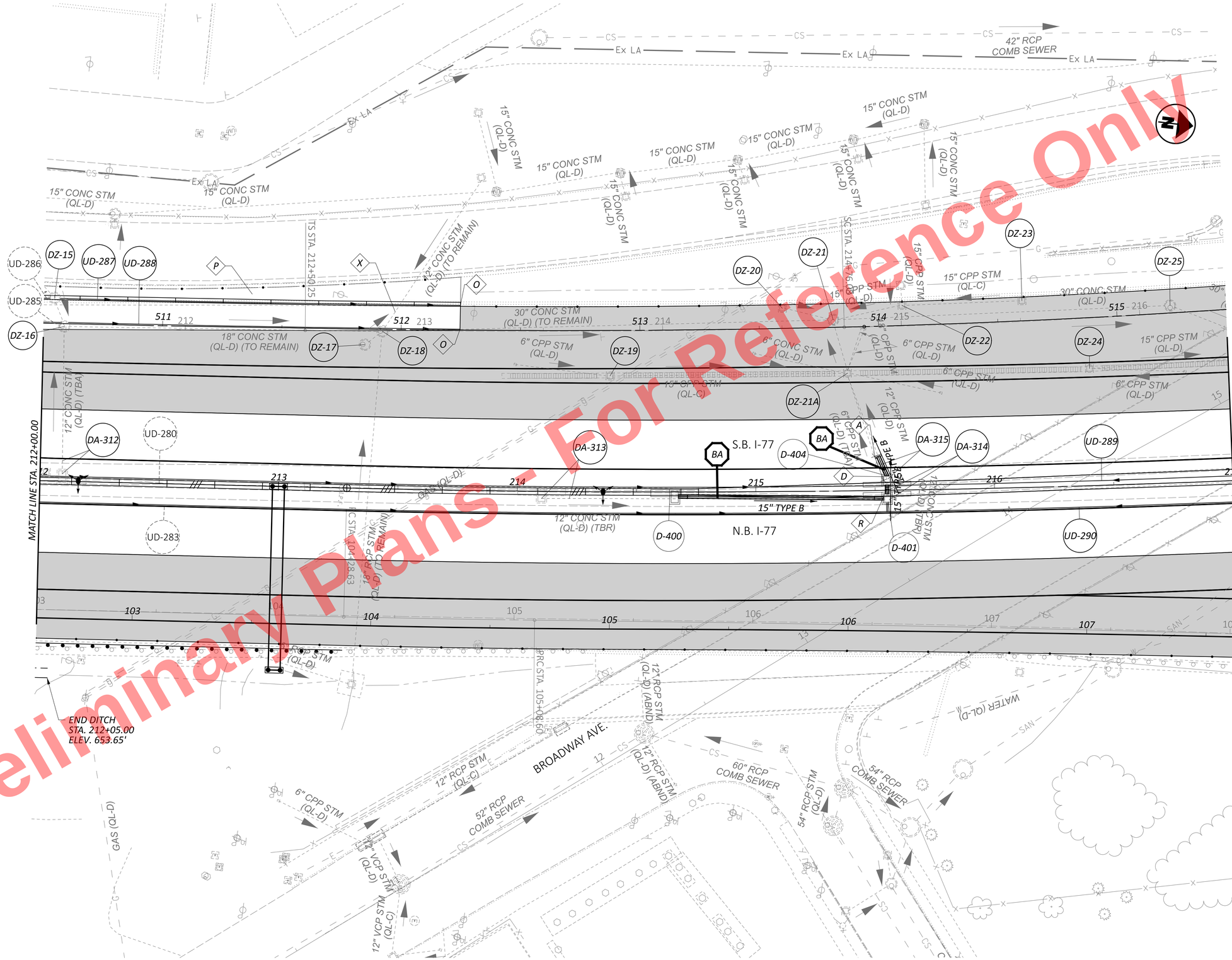
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
# STA. 212+00.00 TO STA. 217+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.704 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 30 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:45:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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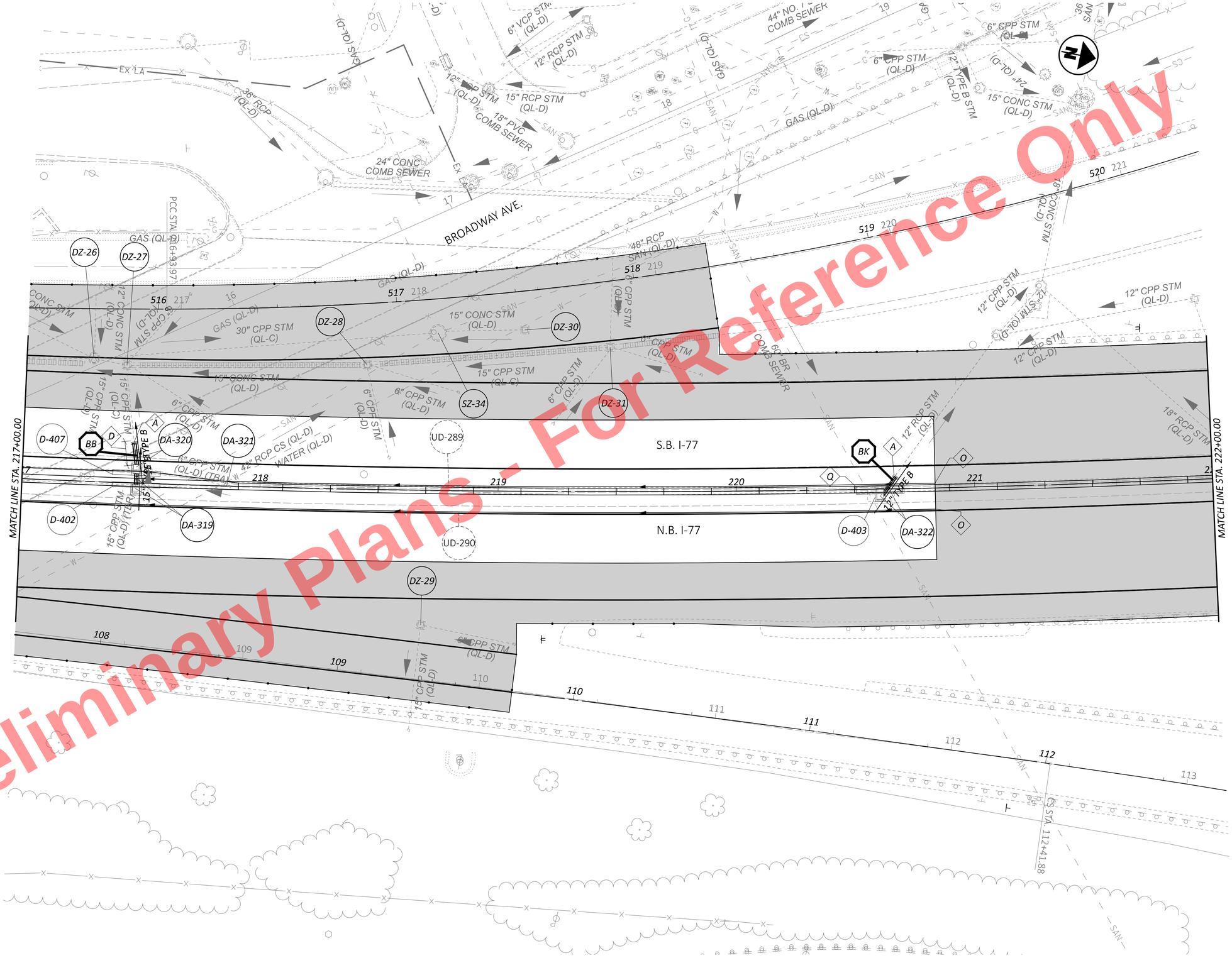
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 217+00.00 TO STA. 222+00.00

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.705 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 31 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:45:48 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil3D WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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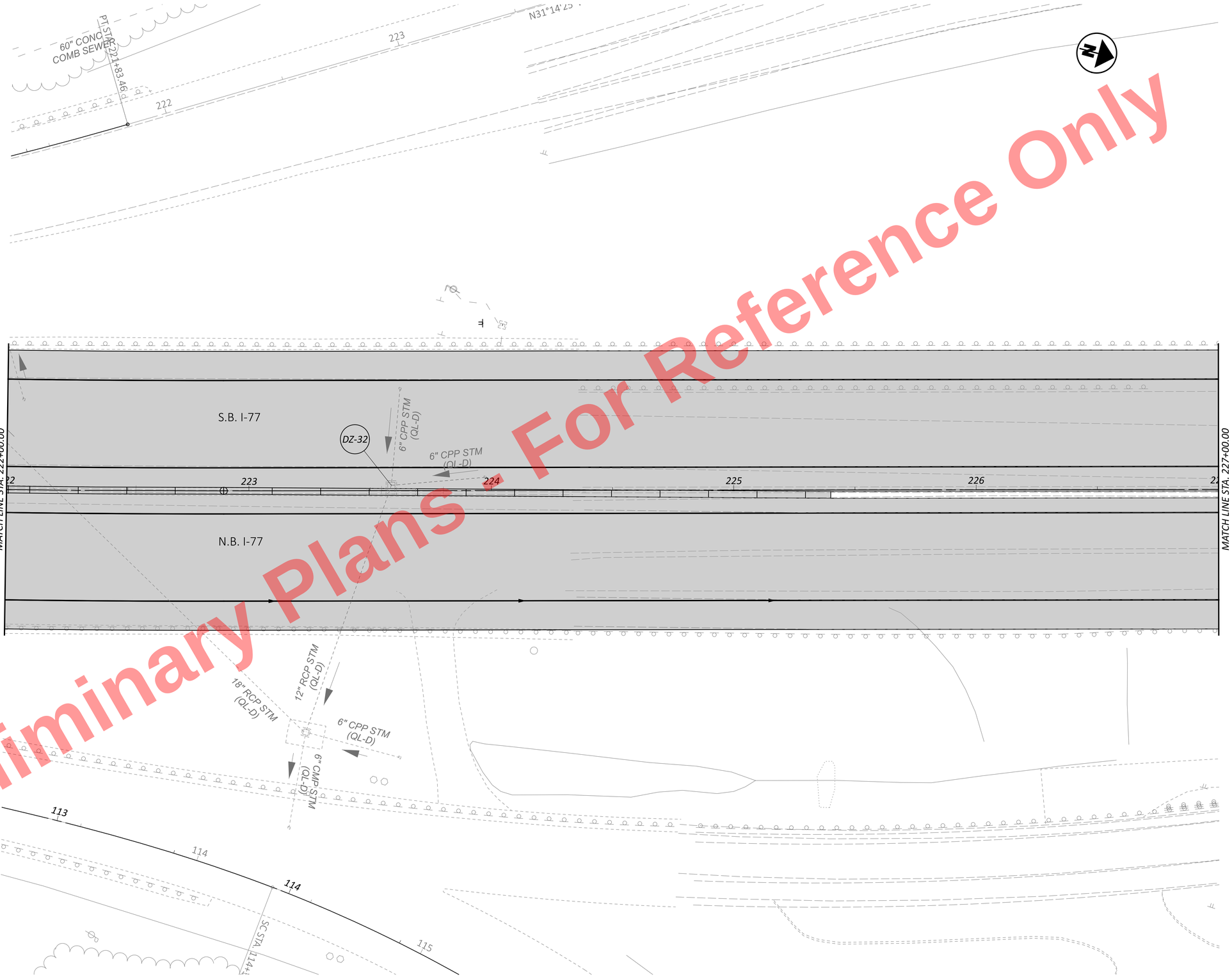
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 222+00.00 TO STA. 227+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.706 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 32 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:45:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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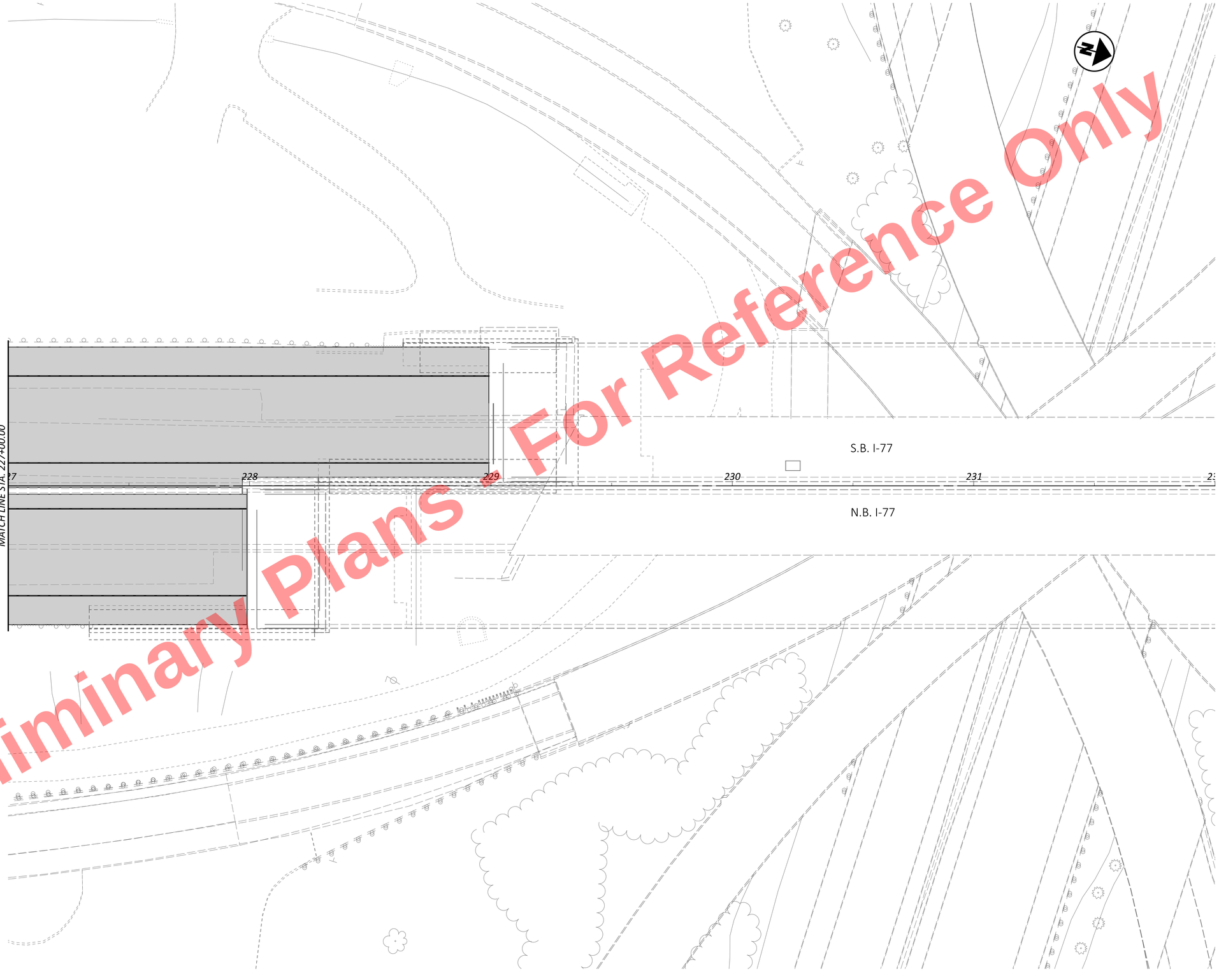
*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - I.R. 77
## STA. 227+00.00 TO STA. 232+00.00

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.707 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 33 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:46:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCtv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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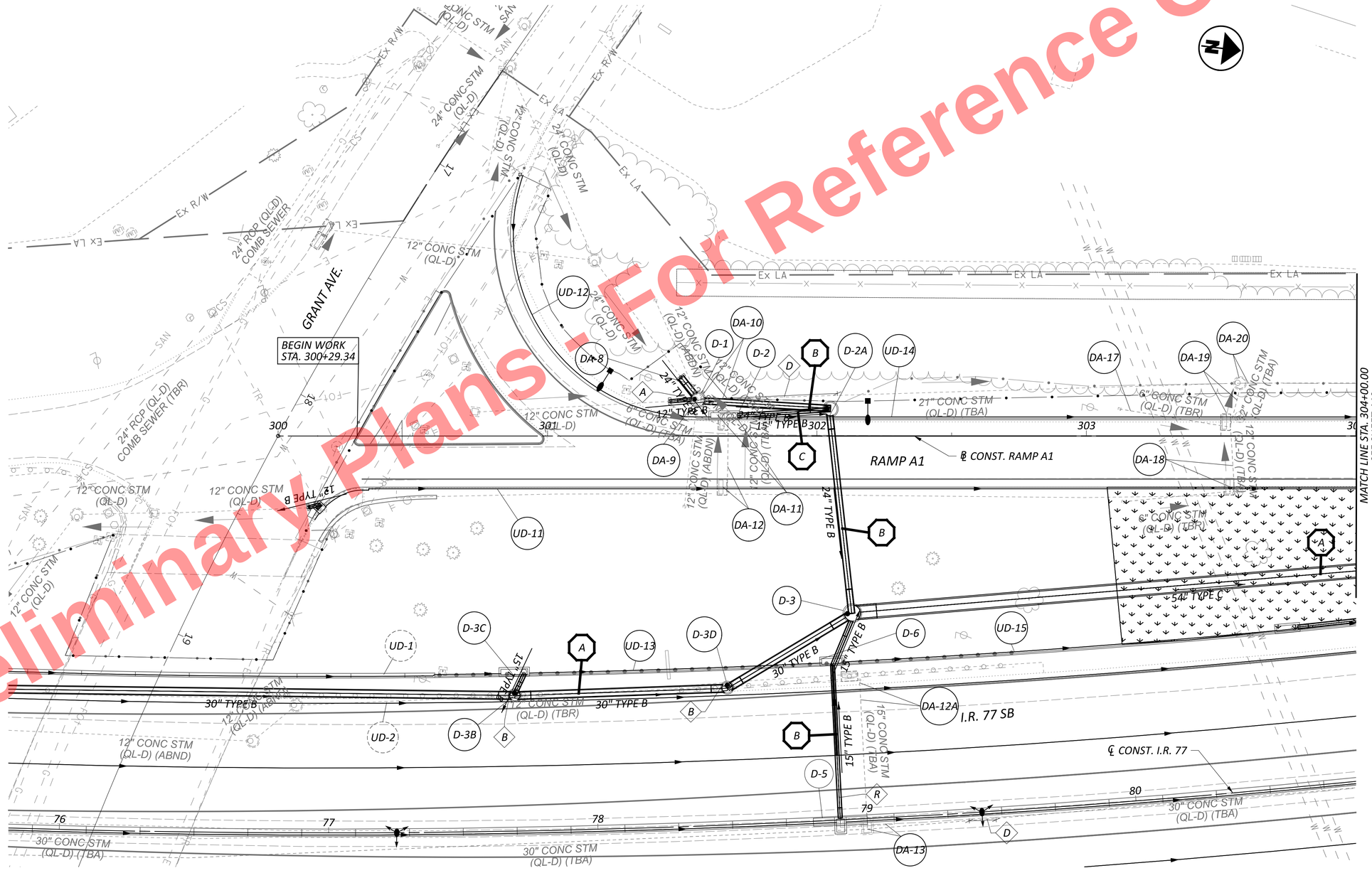
Preliminary Plans - For Reference Only

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A3
BEGINNING TO STA. 304+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.708 TOTAL P.1135

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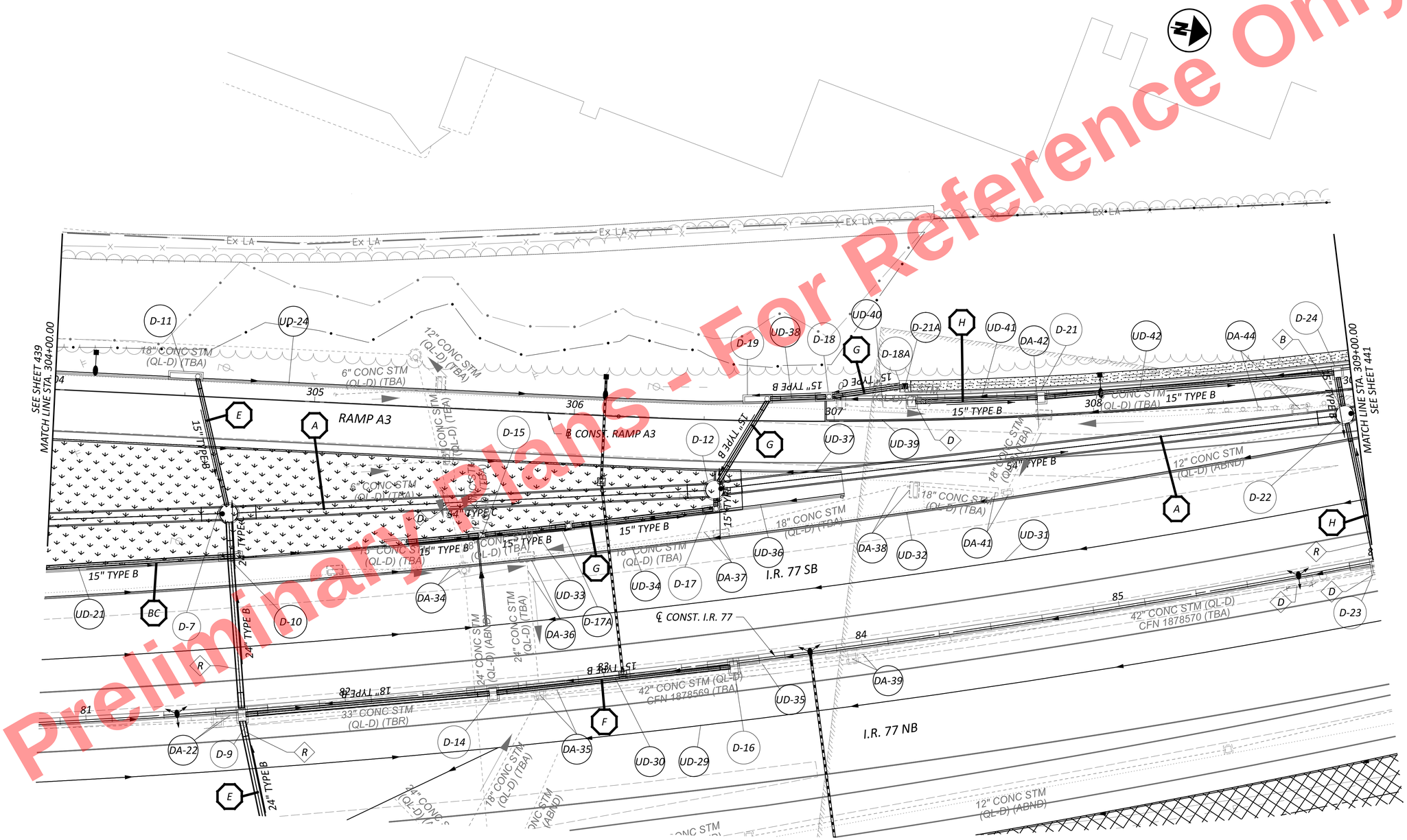
Preliminary Plans - For Reference Only

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP A3
## STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.709 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: BLP_R283A10 - Ramp A3 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:46:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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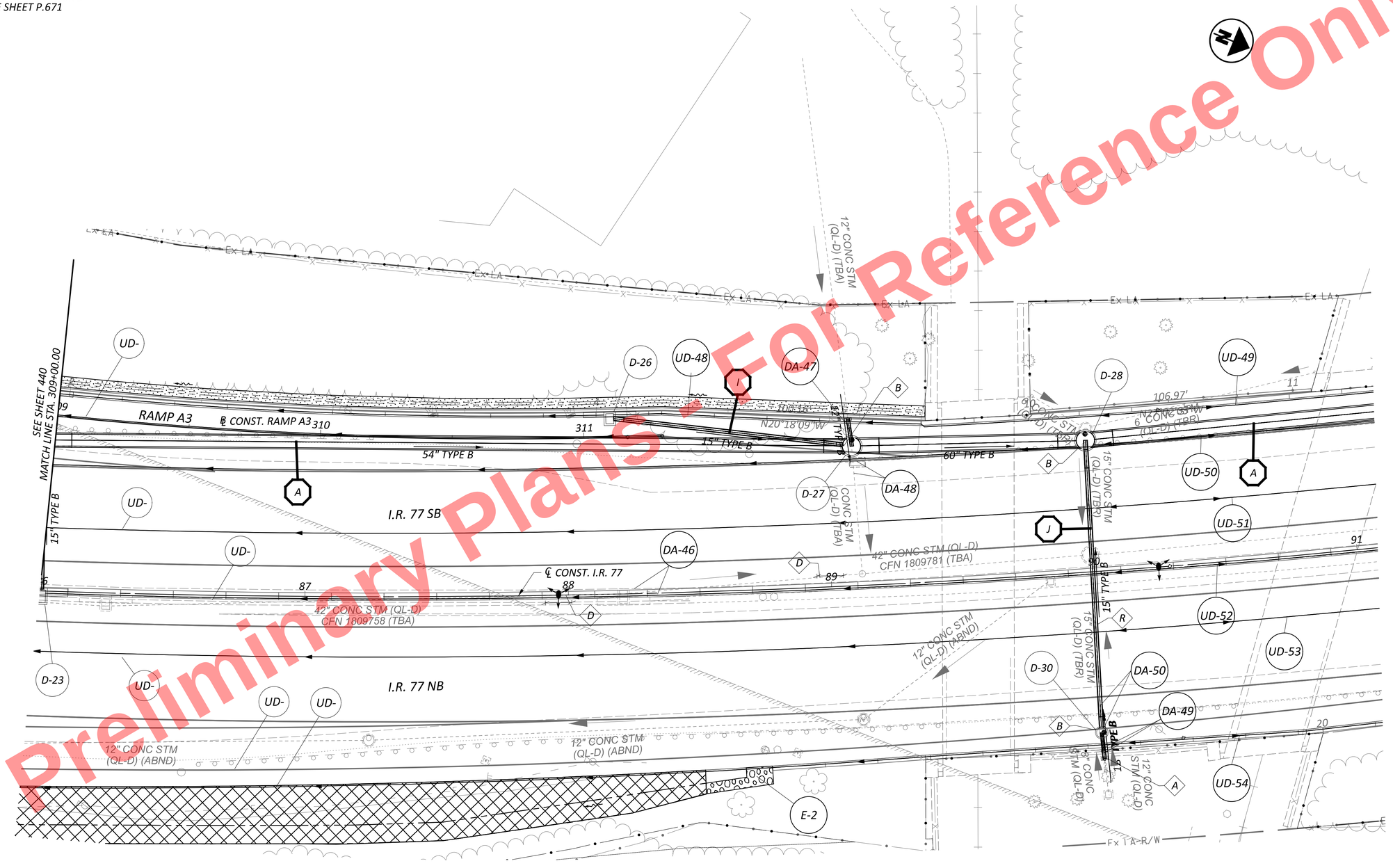
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A3
STA. 309+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.710 TOTAL P.1135

CUY-77-11.41 - PART 1

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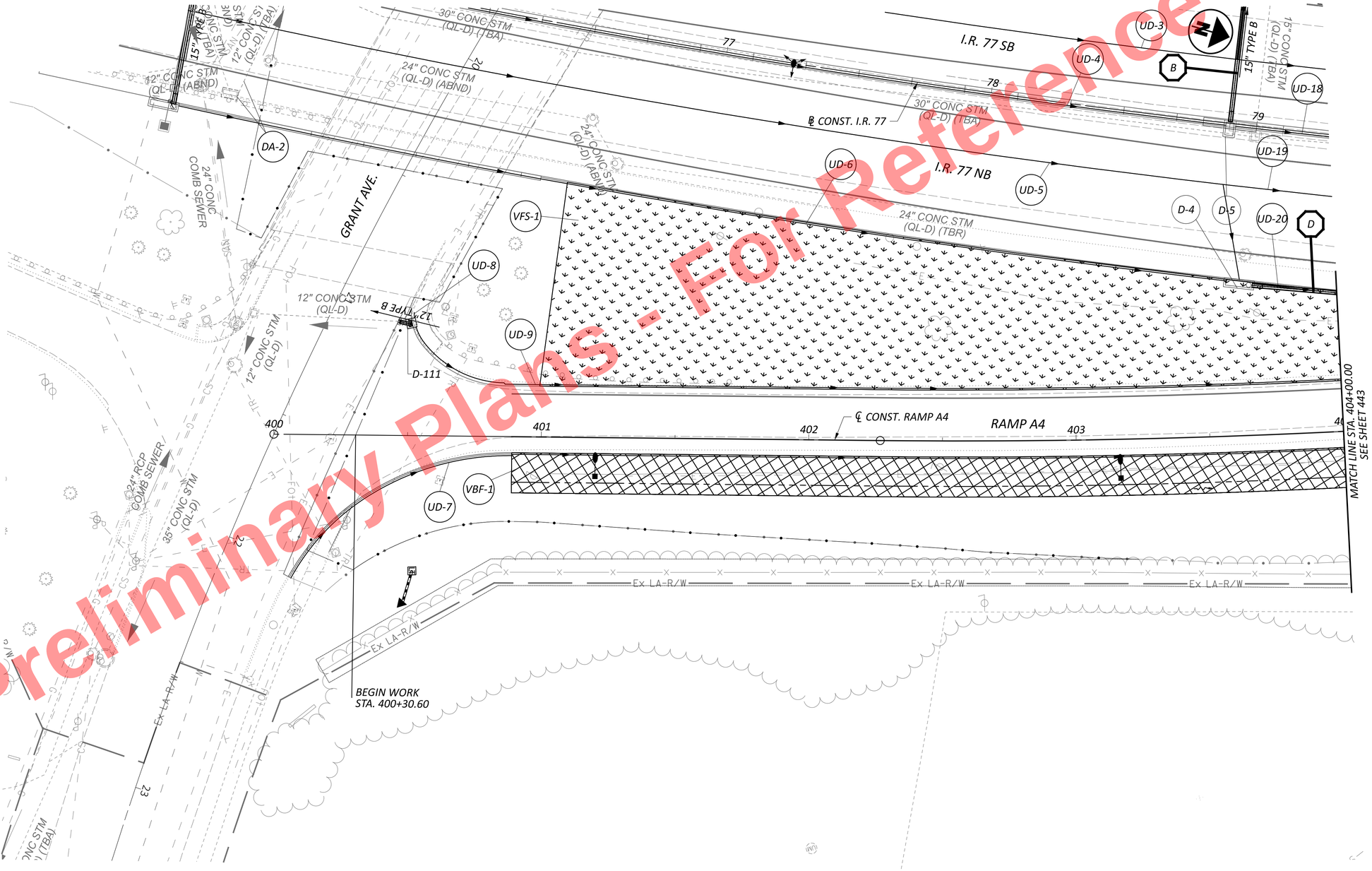
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A4
BEGINNING TO STA. 404+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.711 TOTAL P.1135

CUY-77-11.41 - PART 1

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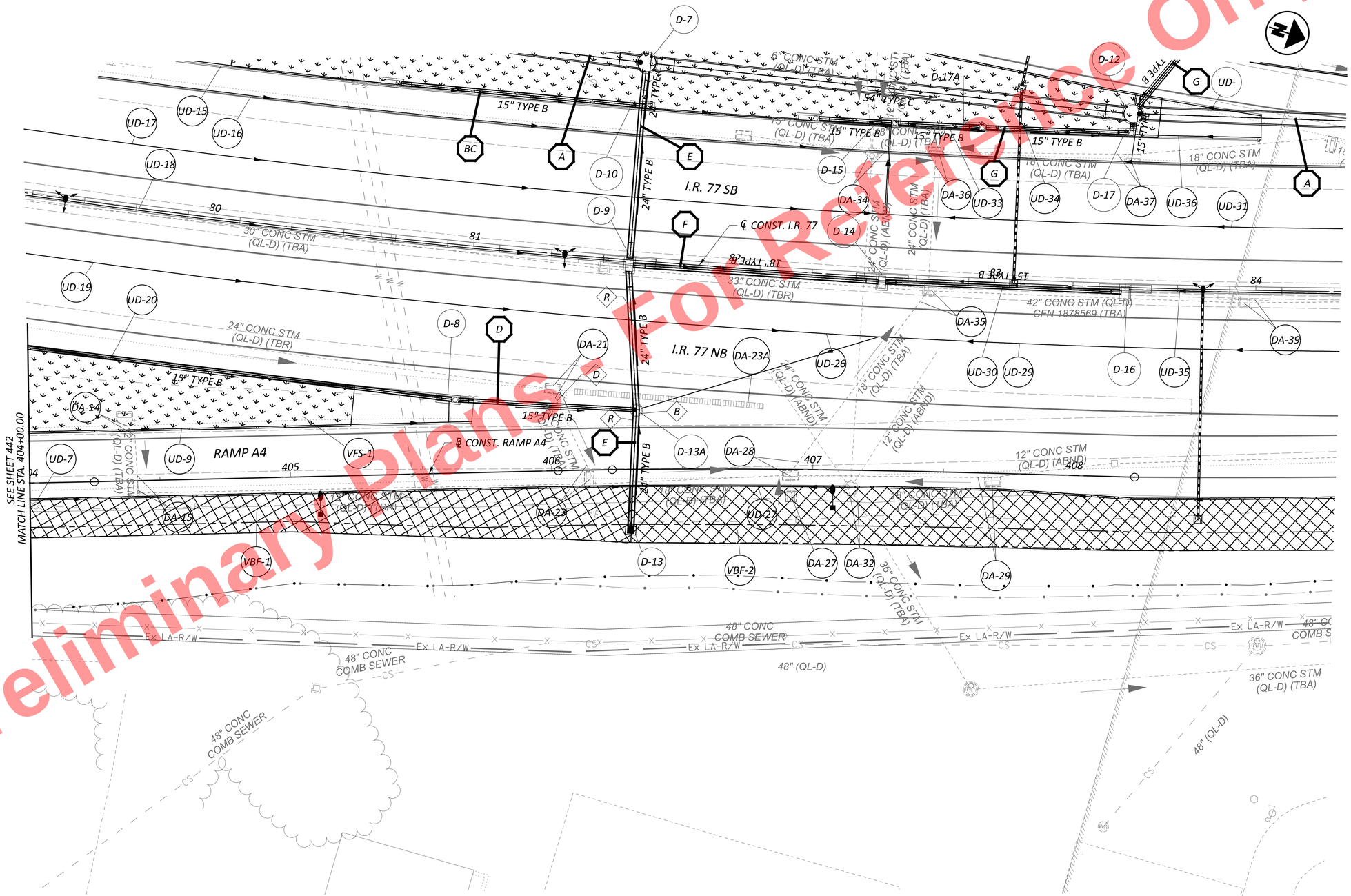
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Construction
For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A4
STA. 404+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.712 TOTAL P.1135

CUY-77-11.41 - PART 1

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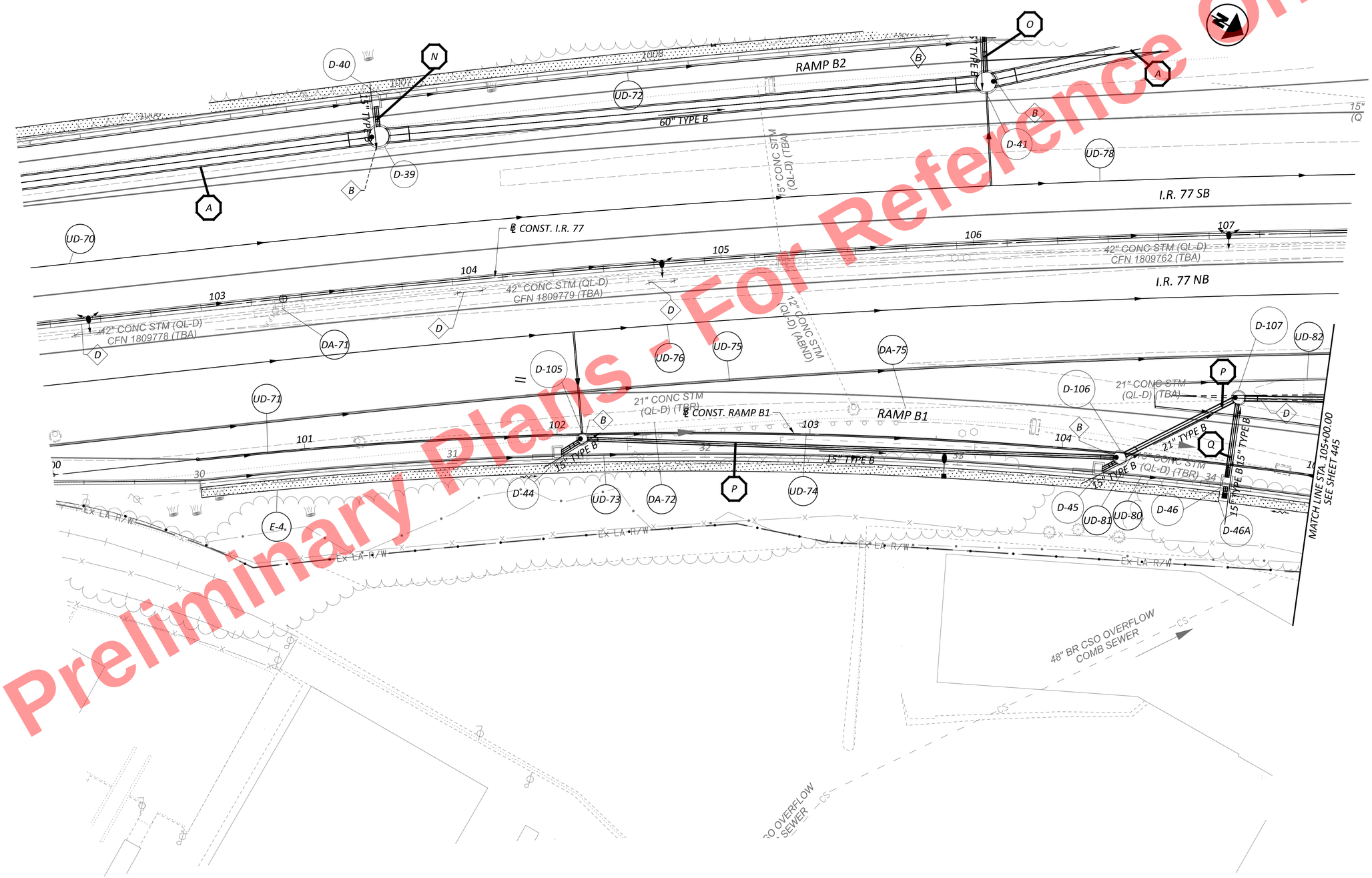
## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP B1 BEGINNING TO STA. 105+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.713 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: BLP_R043B1 - Ramp B1-1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:47:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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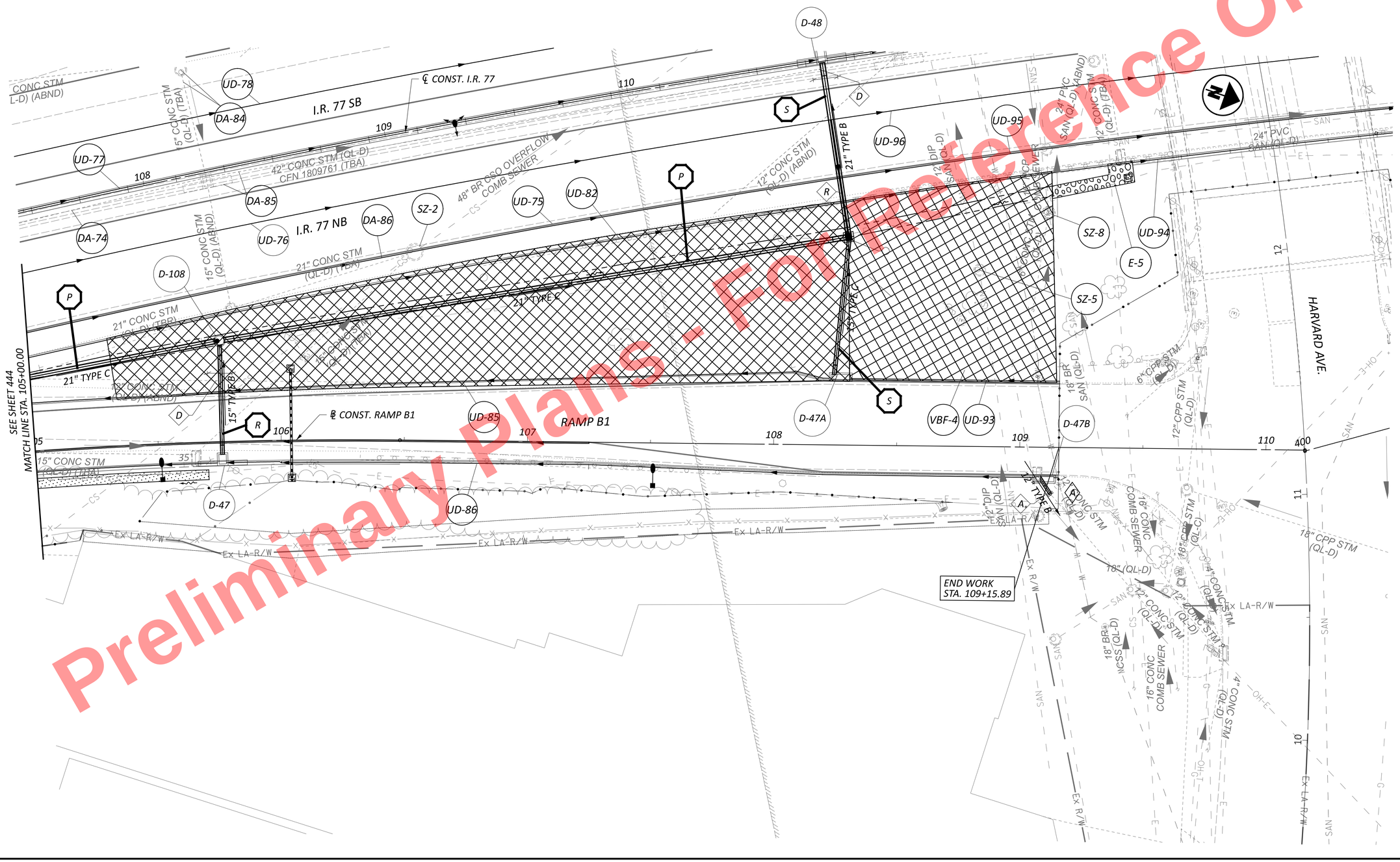
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - Not for Construction
Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP B1
# STA. 105+00.00 TO ENDING

CUY-77-11.41 - PART 1

MODEL: BLP_R43B7 - B1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:47:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 105743 |
| SHEET | P.714 |
| TOTAL | P.1135 |

MODEL: BLP_R043B10 - B2 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:47:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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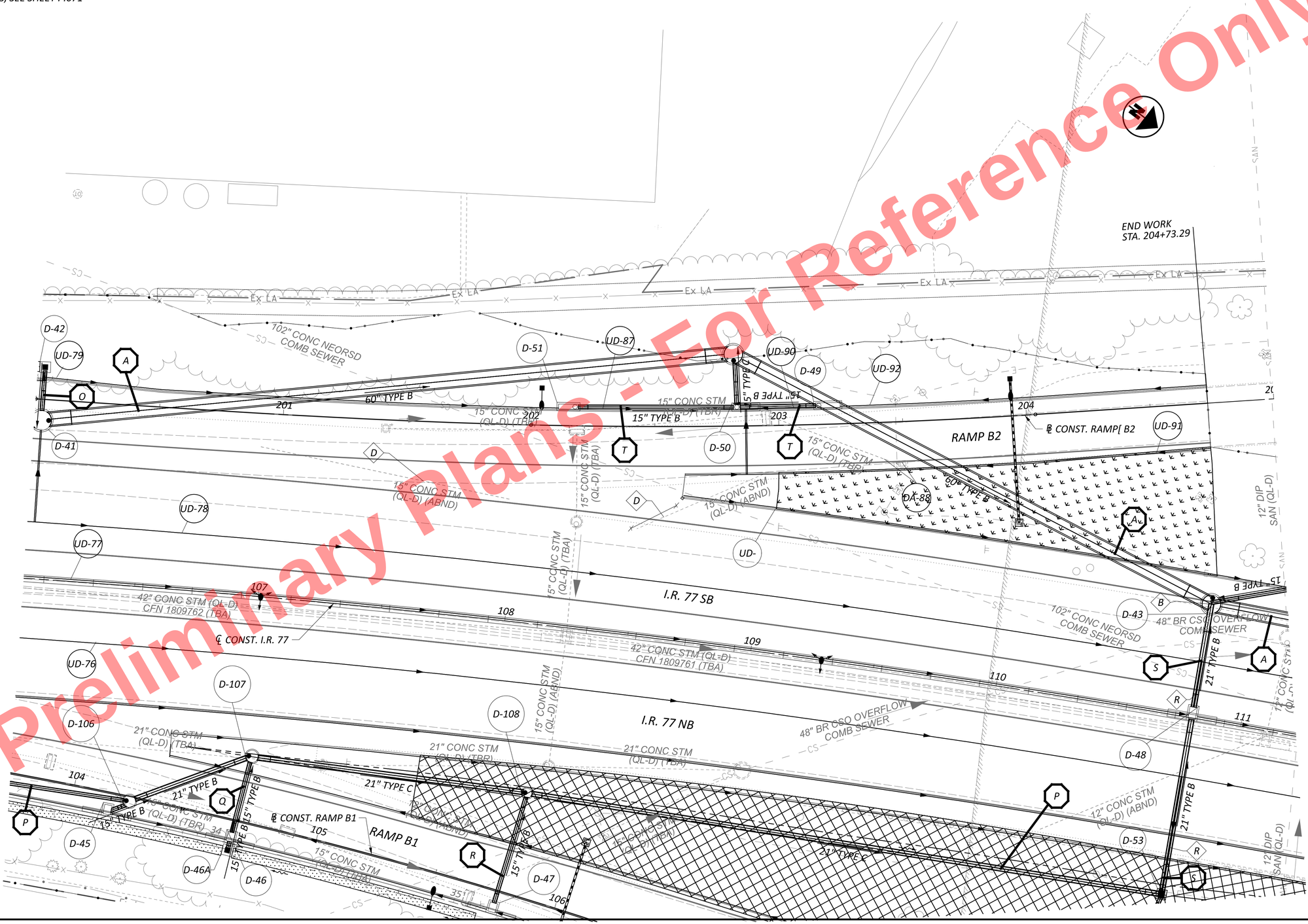
CUY-77-11.41 - PART 1

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP B2
BEGINNING TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.715 | TOTAL P.1135

MODEL: B3 - B3 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:48:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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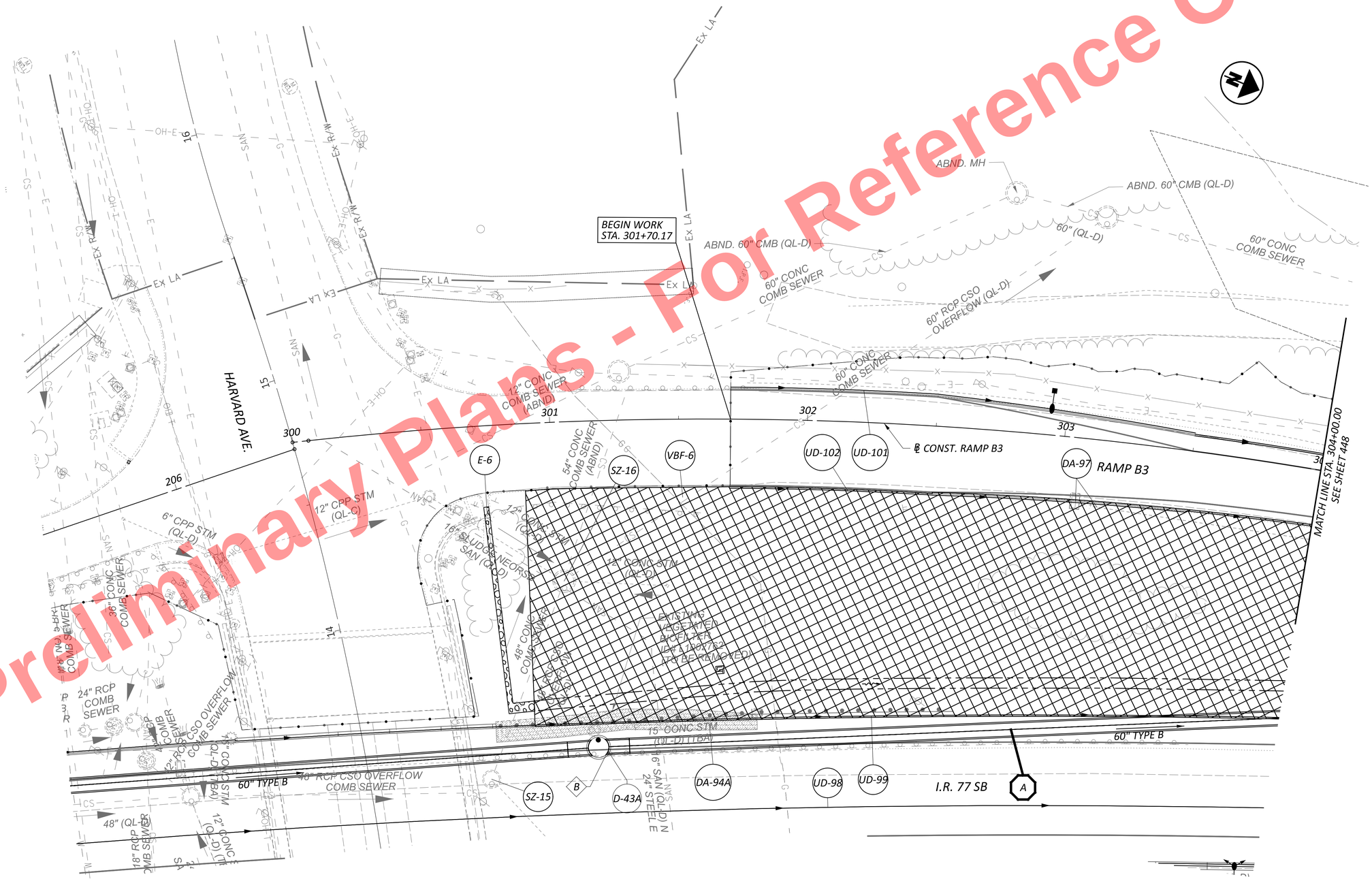
CUY-77-11.41 - PART 1

*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP B3
BEGINNING TO STA. 304+00.00

DESIGN AGENCY
AECOM

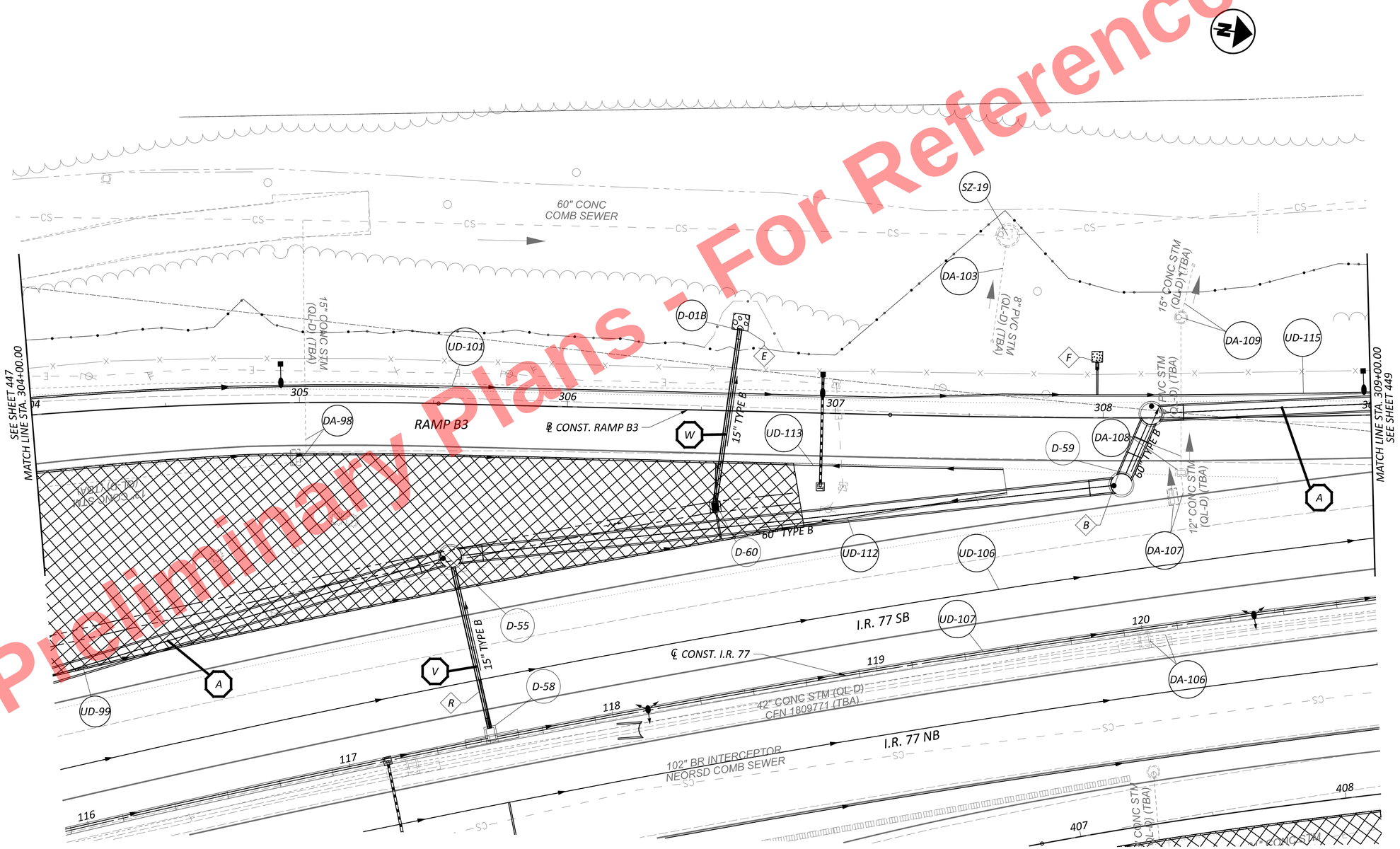
DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.716 TOTAL P.1135

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP B3
## STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.717 TOTAL P.1135

CUY-77-11.41 - PART 1

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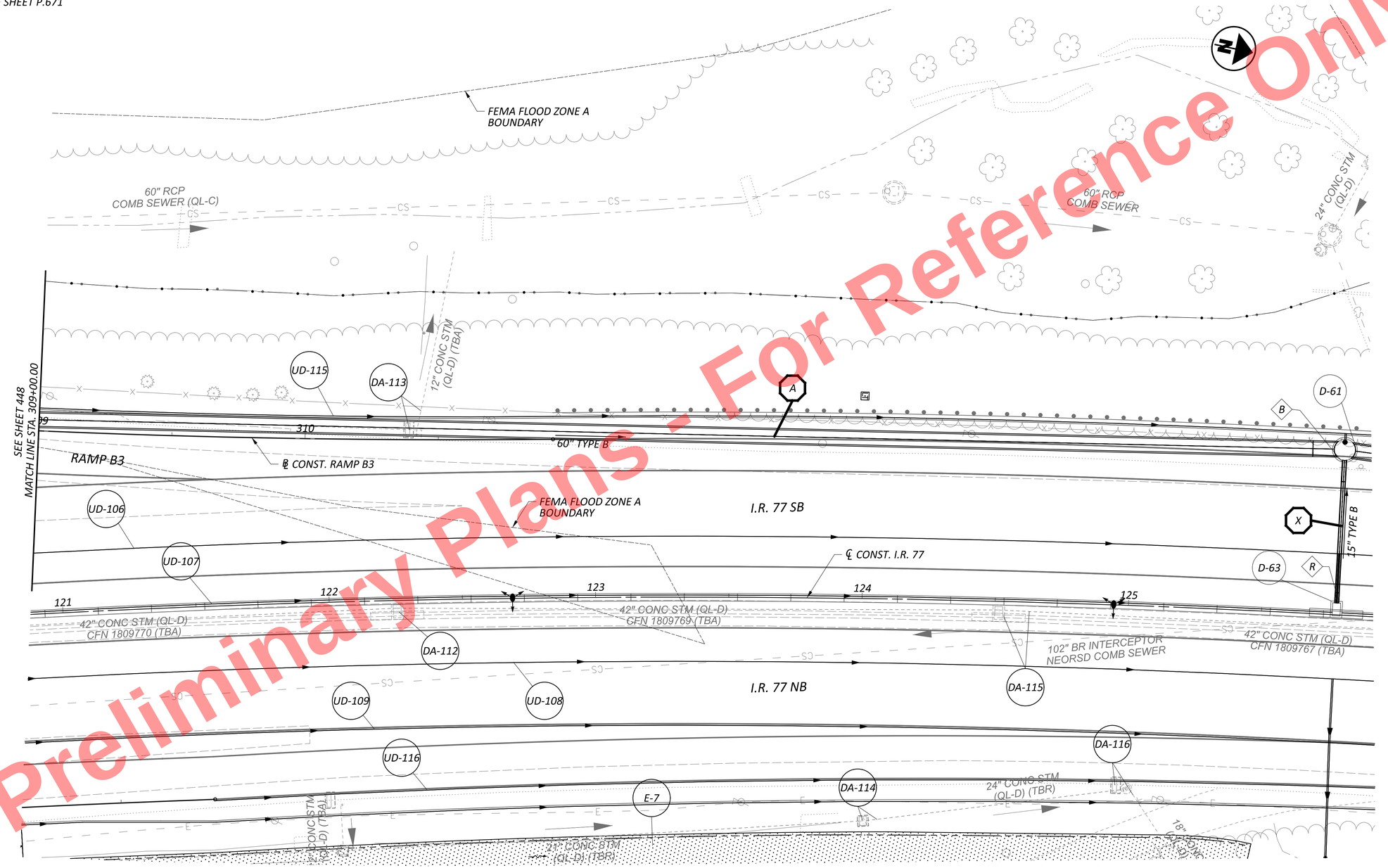
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP B3
STA. 309+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.718 TOTAL P.1135

CUY-77-11.41 - PART 1

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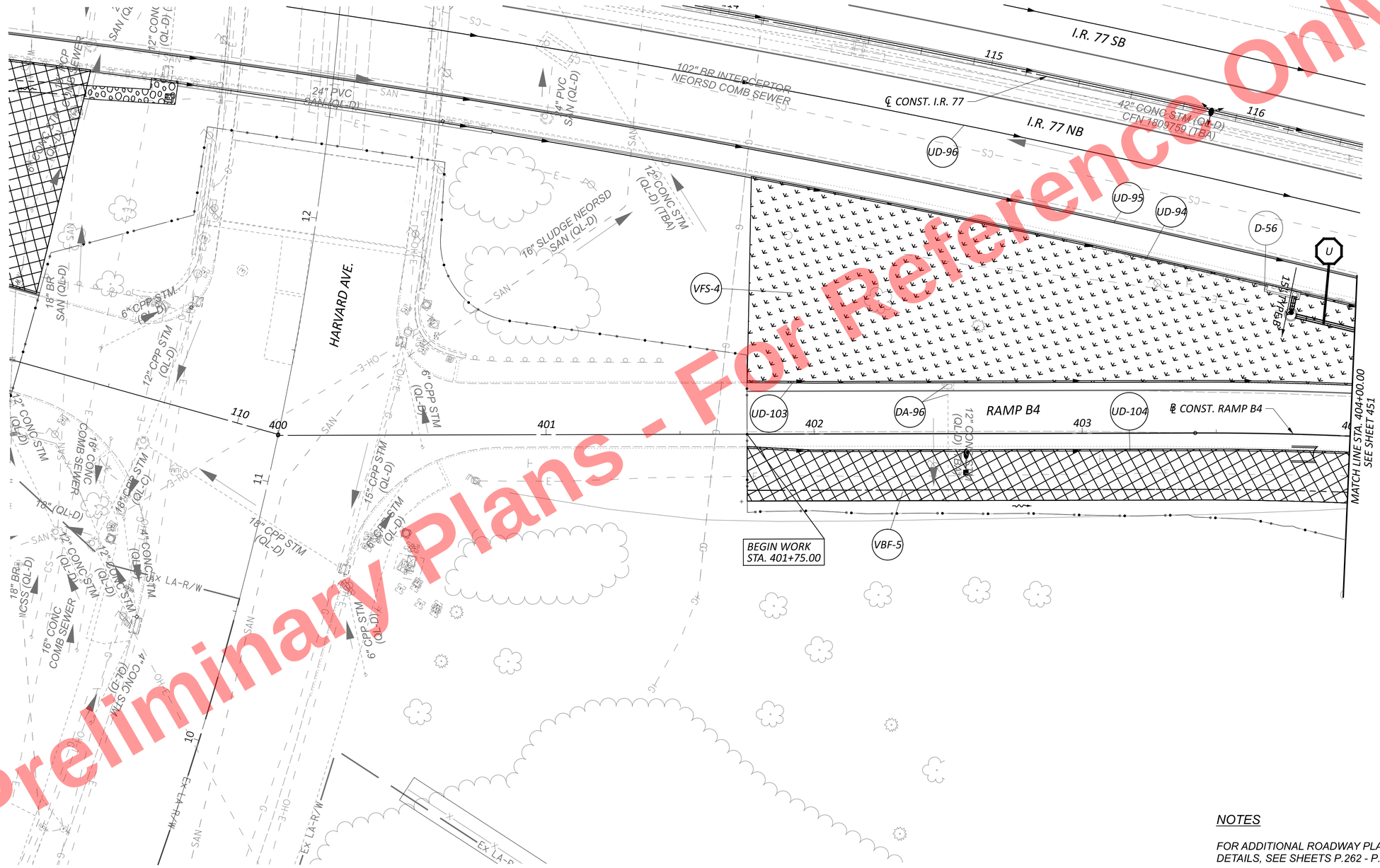
Preliminary Plans - For Reference Only




## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP B4 BEGINNING TO STA. 404+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.719 TOTAL P.1135

CUY-77-11.41 - PART 1

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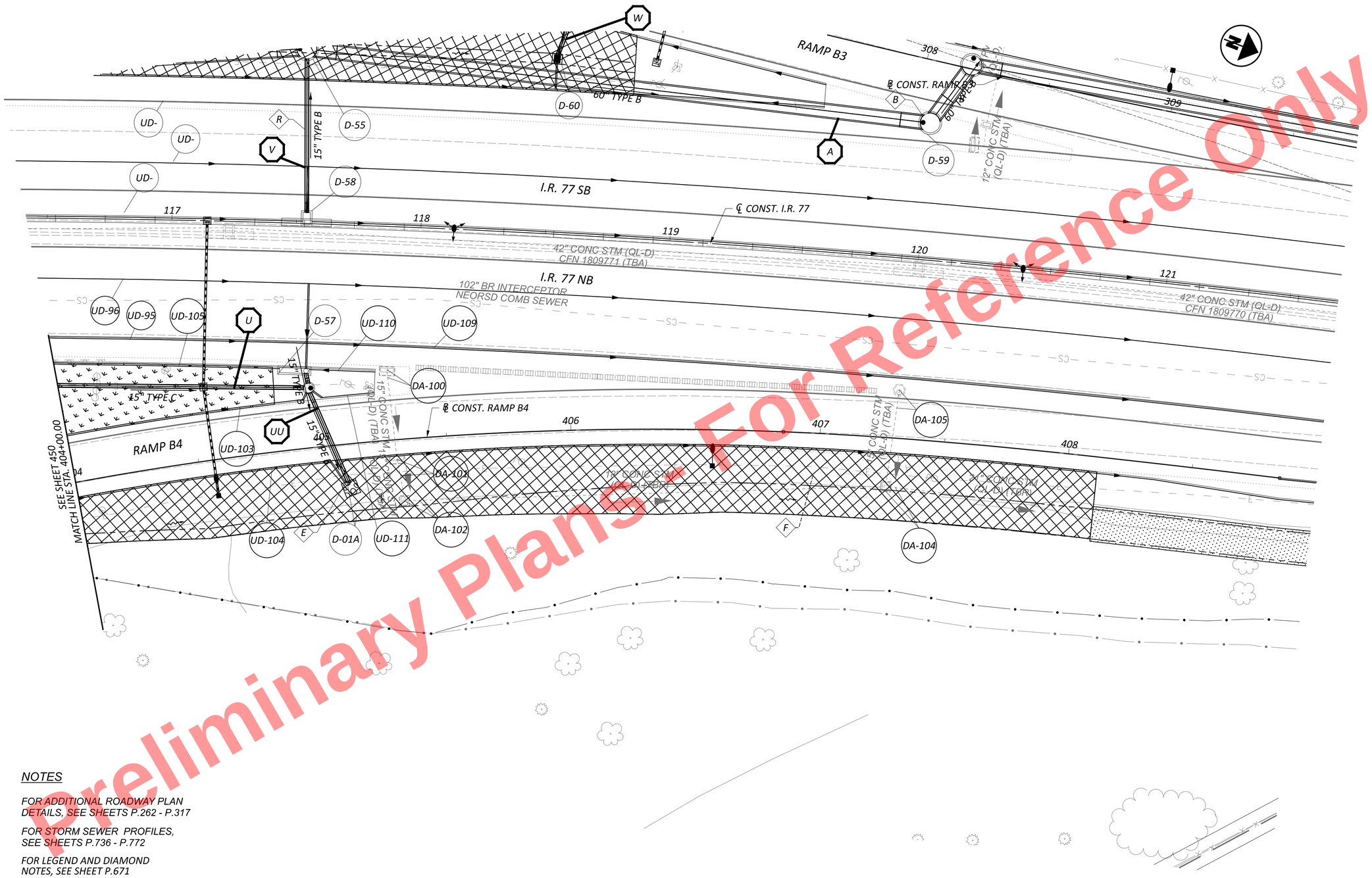


Preliminary Plans - For Reference Only

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP B4
STA. 404+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.720 TOTAL P.1135

CUY-77-11.41 - PART 1

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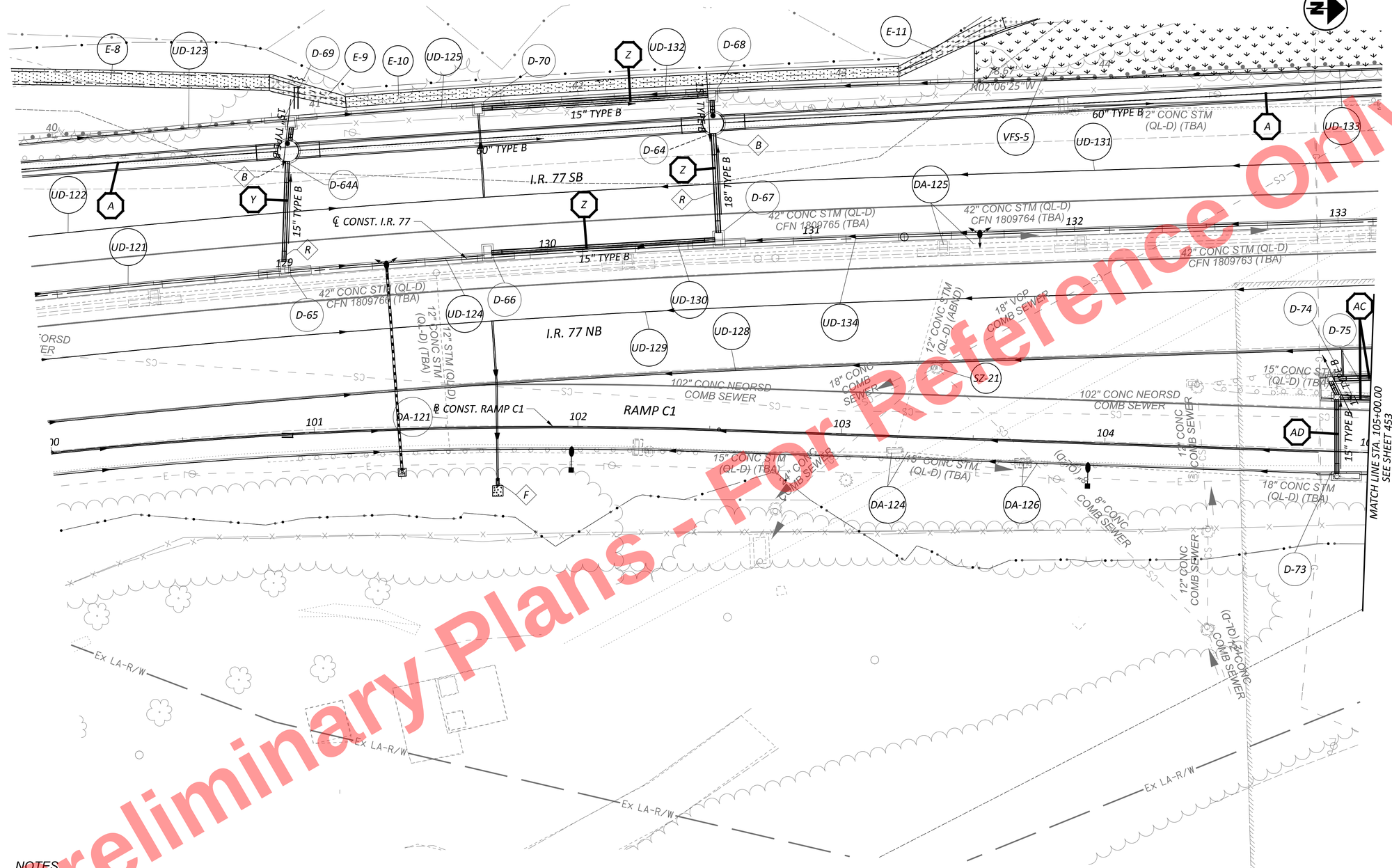


Preliminary Plans - For Reference Only

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C1
BEGINNING STA. 101+00.00 TO STA. 105+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.721 TOTAL P.1135

CUY-77-11.41 - PART 1

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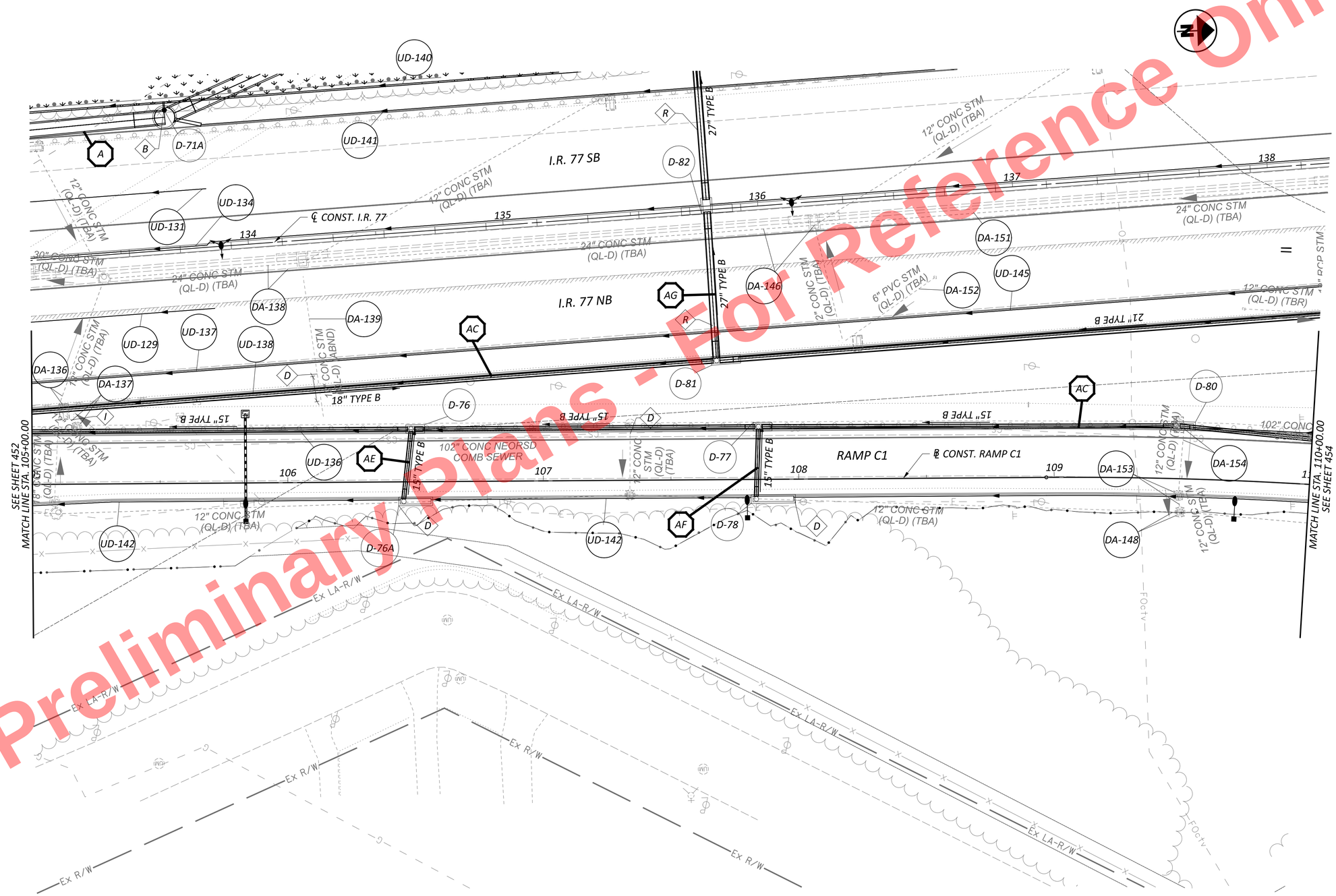
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C1
STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.722 TOTAL P.1135

CUY-77-11.41 - PART 1

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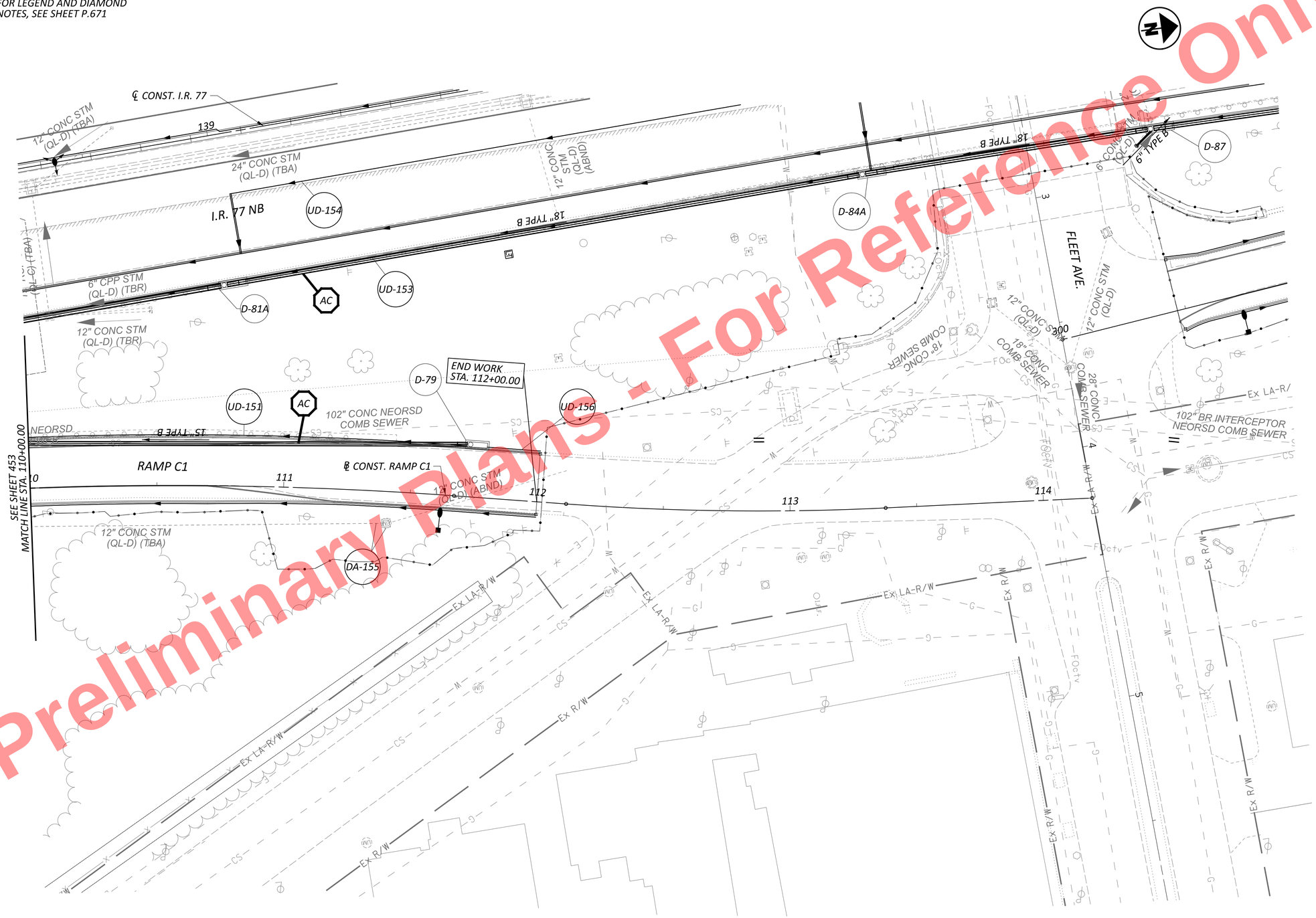
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C1
STA. 110+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.723 TOTAL P.1135

CUY-77-11.41 - PART 1

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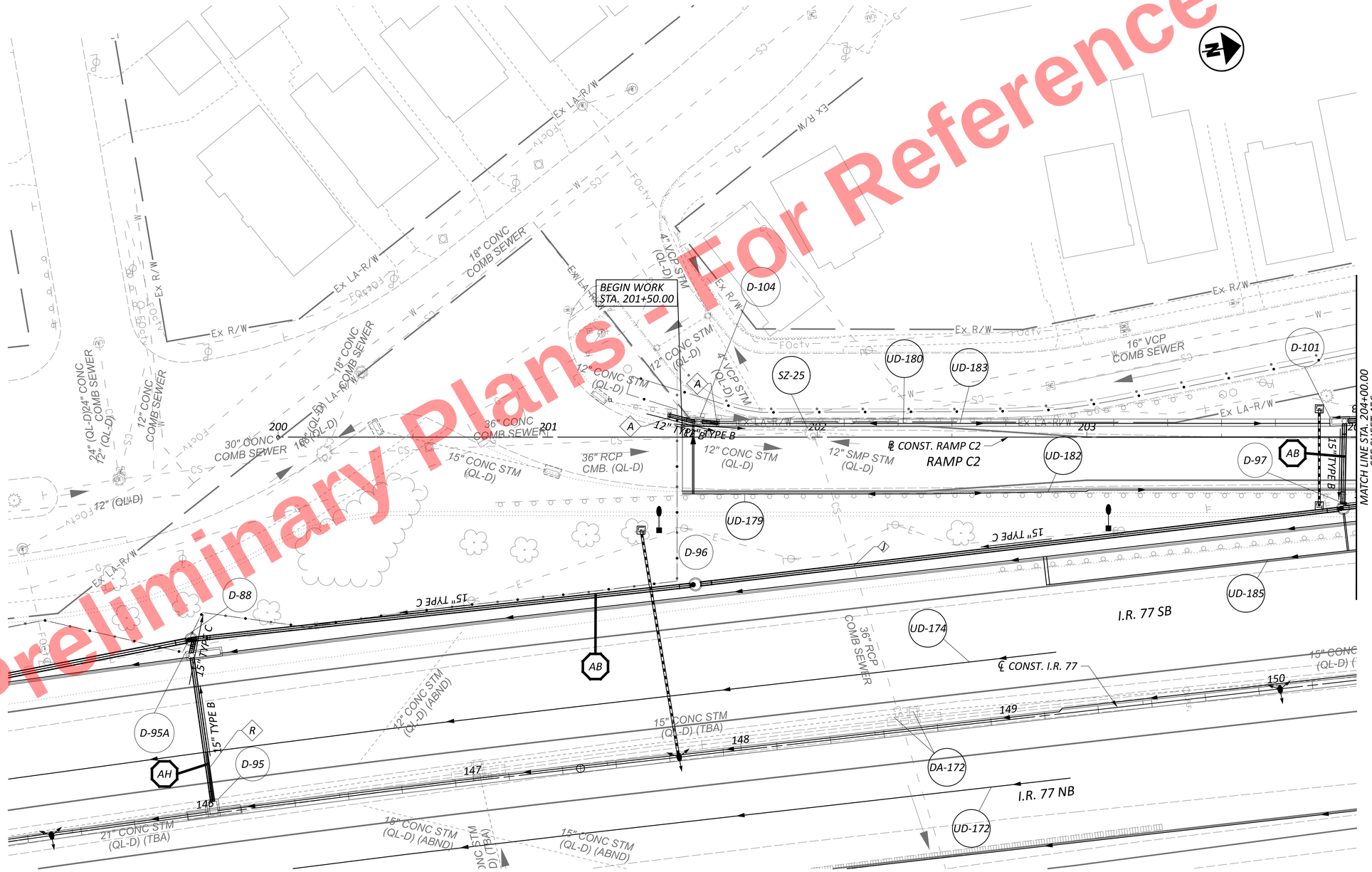
CUY-77-11.41 - PART 1

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C2
BEGINNING TO STA. 204+00.00

DESIGN AGENCY
AECOM

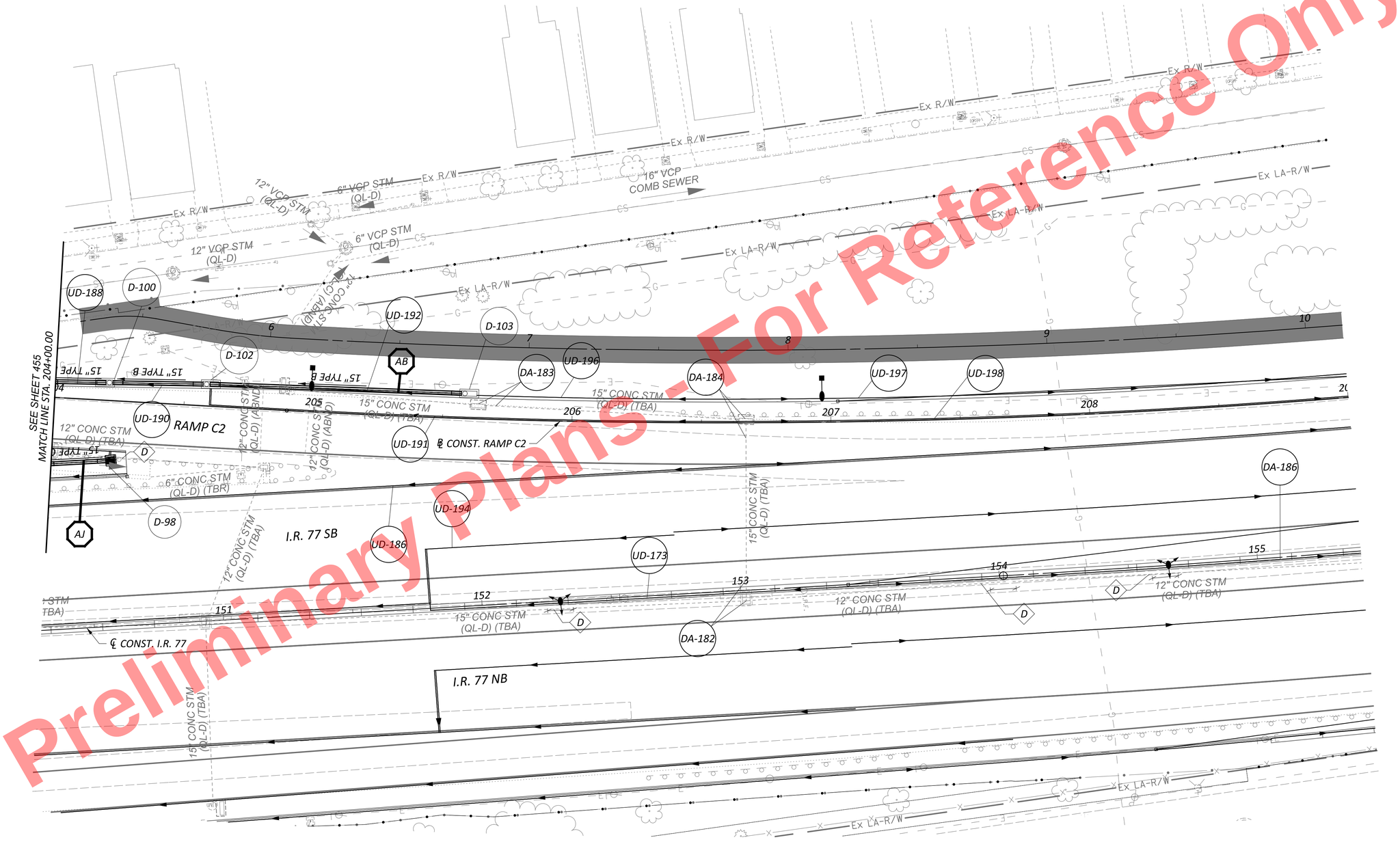
DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.724 TOTAL P.1135

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C2
STA. 204+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.725 TOTAL P.1135

CUY-77-11.41 - PART 1

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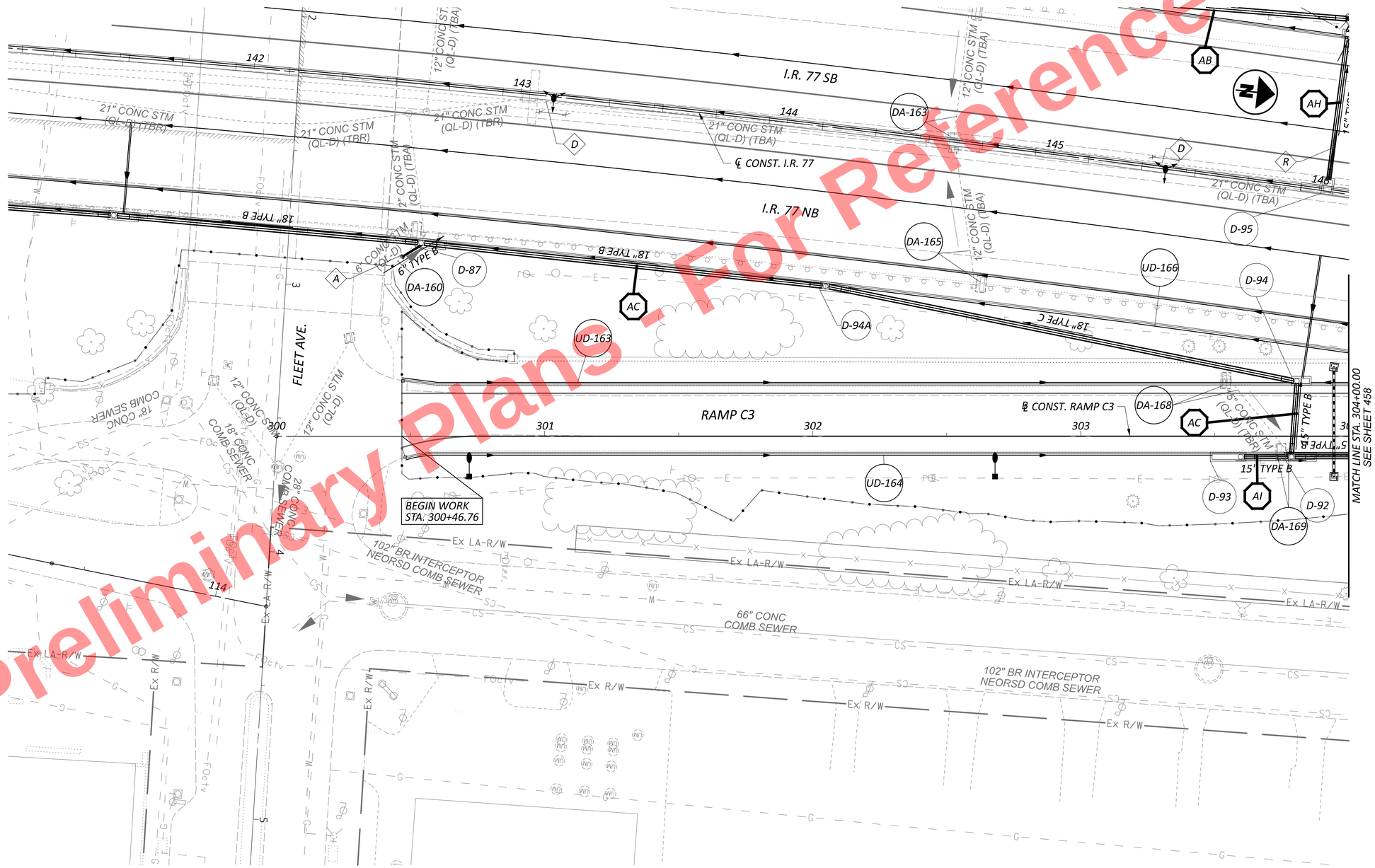
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP C3 BEGINNING TO STA. 304+00.00

DESIGN AGENCY
AECOM

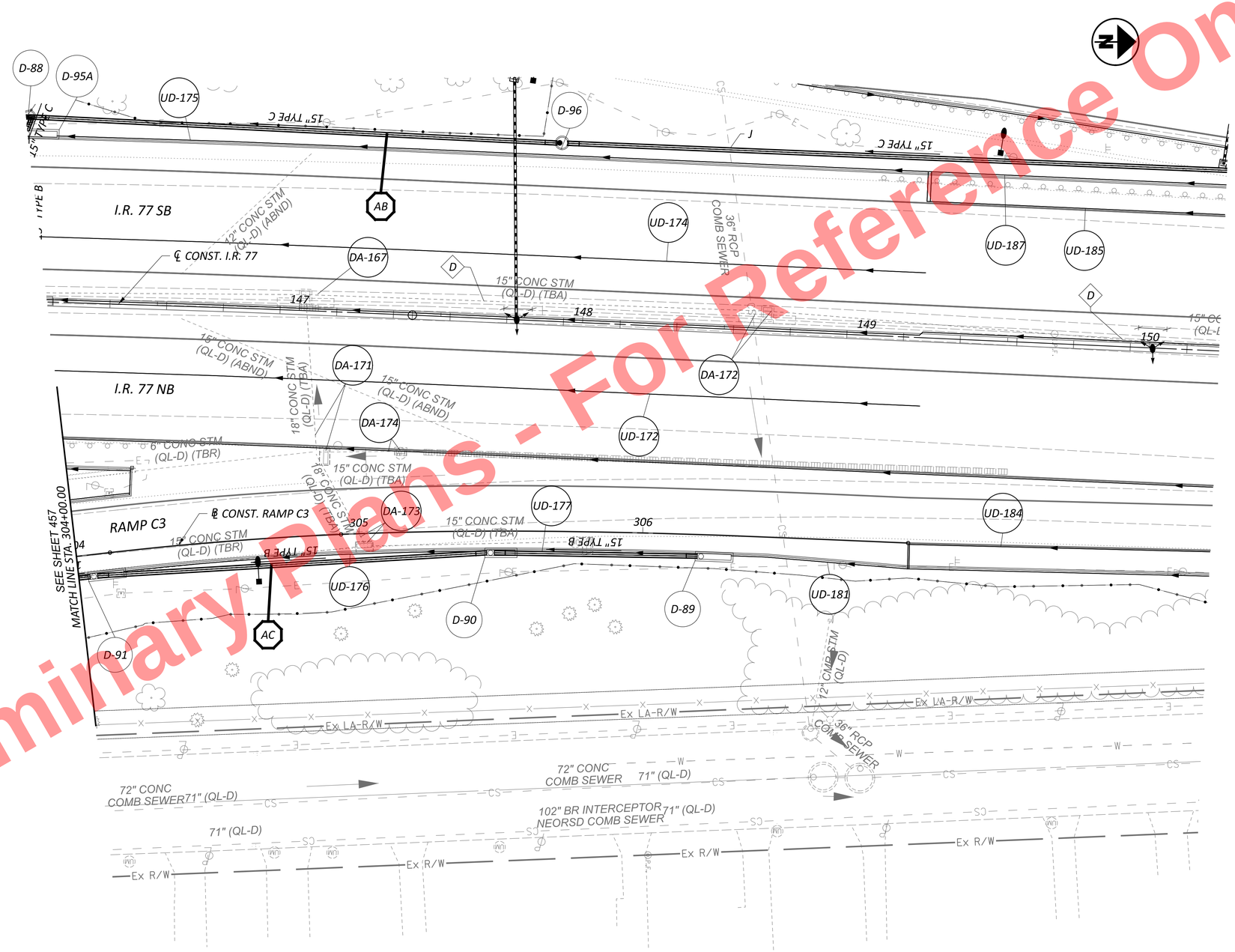
DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.726 TOTAL P.1135

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP C3
STA. 304+00.00 TO ENDING

CUY-77-11.41 - PART 1

MODEL: BLP_R743C3 - Ramp C3-2 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:50:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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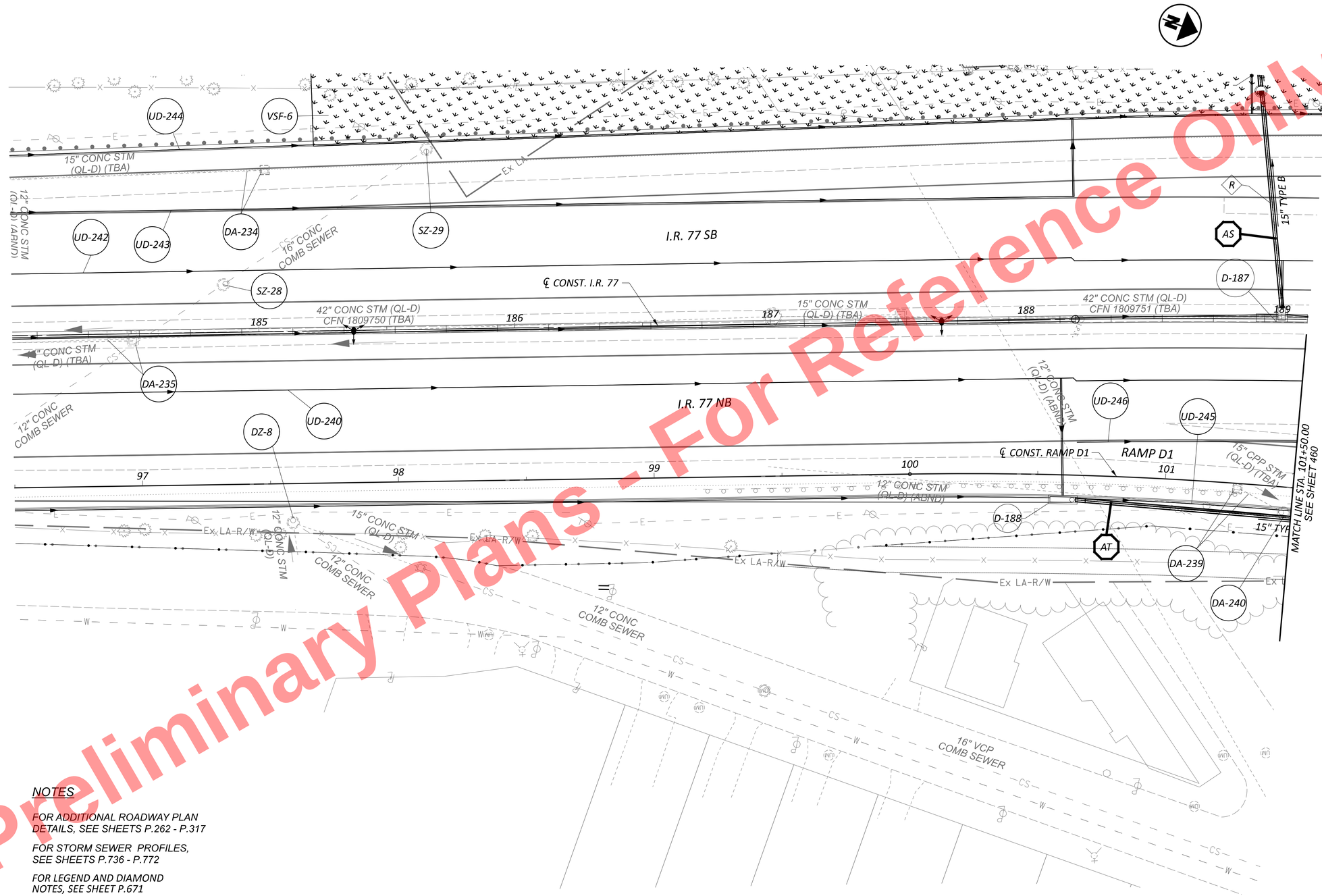
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.727 TOTAL P.1135

Preliminary Plans - For Reference Only




NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP D1 BEGINNING TO STA. 101+50.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.728 TOTAL P.1135

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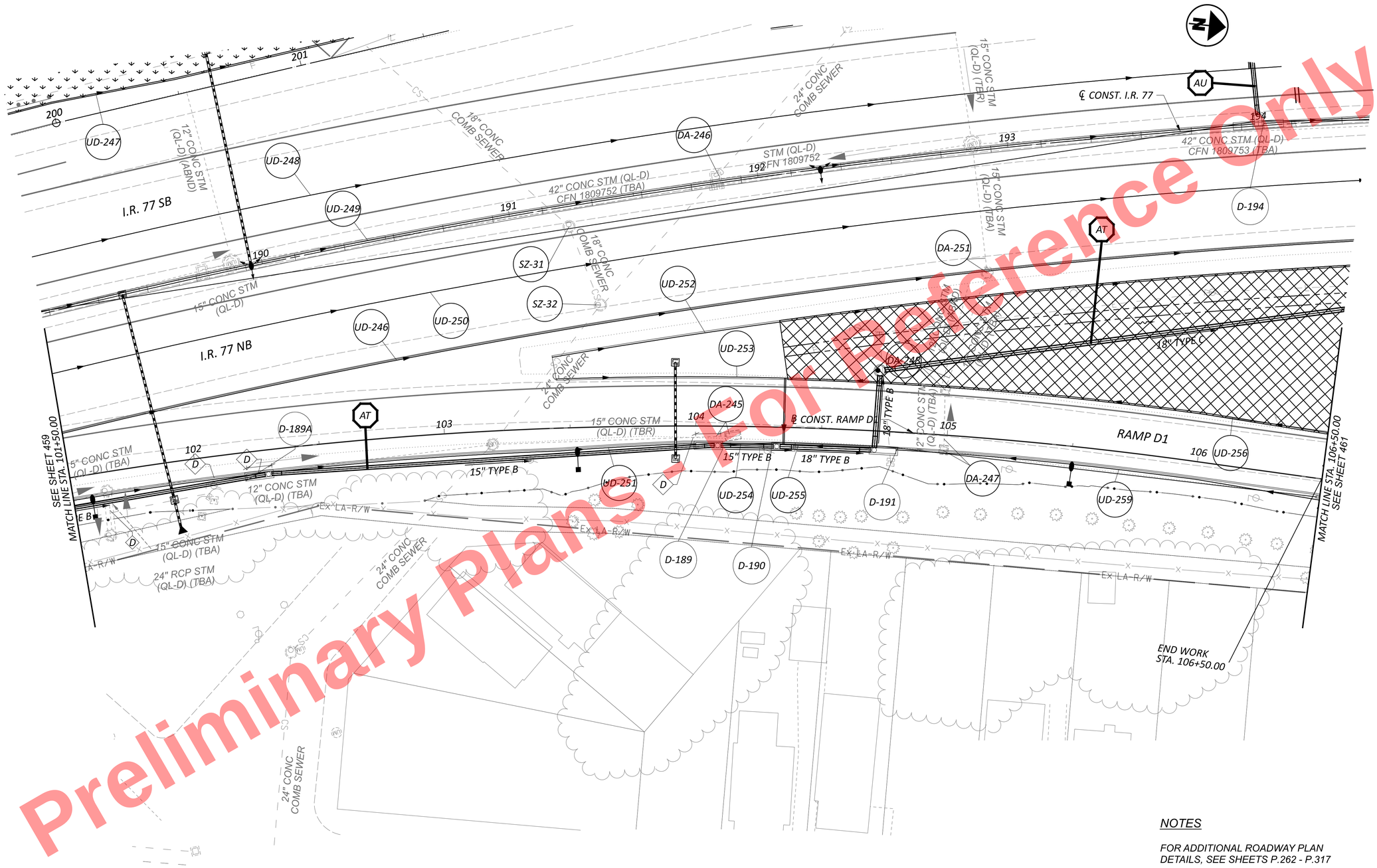


Preliminary Plans - For Reference Only

*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP D1
# STA. 101+50.00 TO STA. 106+50.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.729 TOTAL P.1135

CUY-77-11.41 - PART 1

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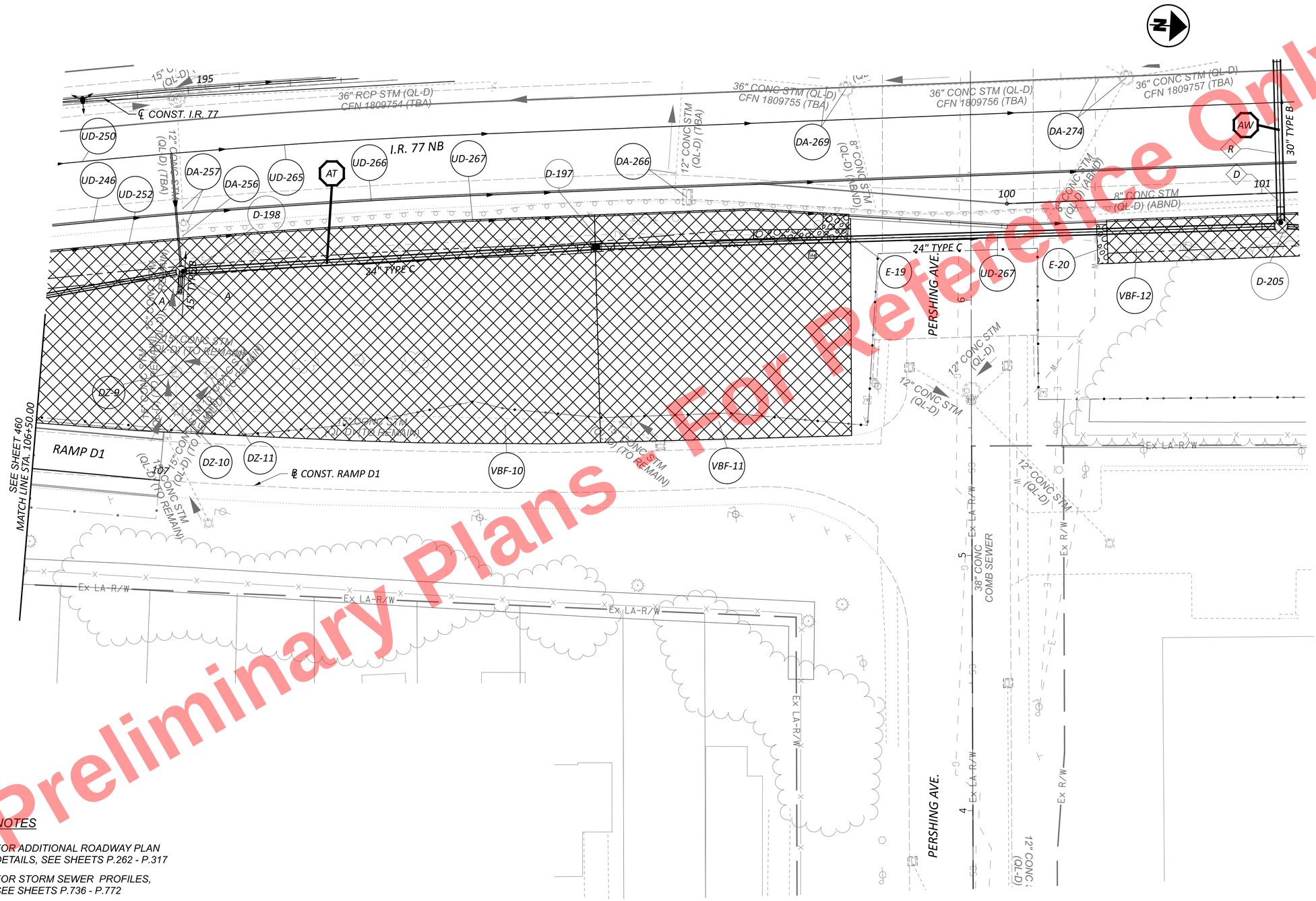
Preliminary Plans For Reference Only




## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP D1 STA. 106+50.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.730 TOTAL P.1135

CUY-77-11.41 - PART 1

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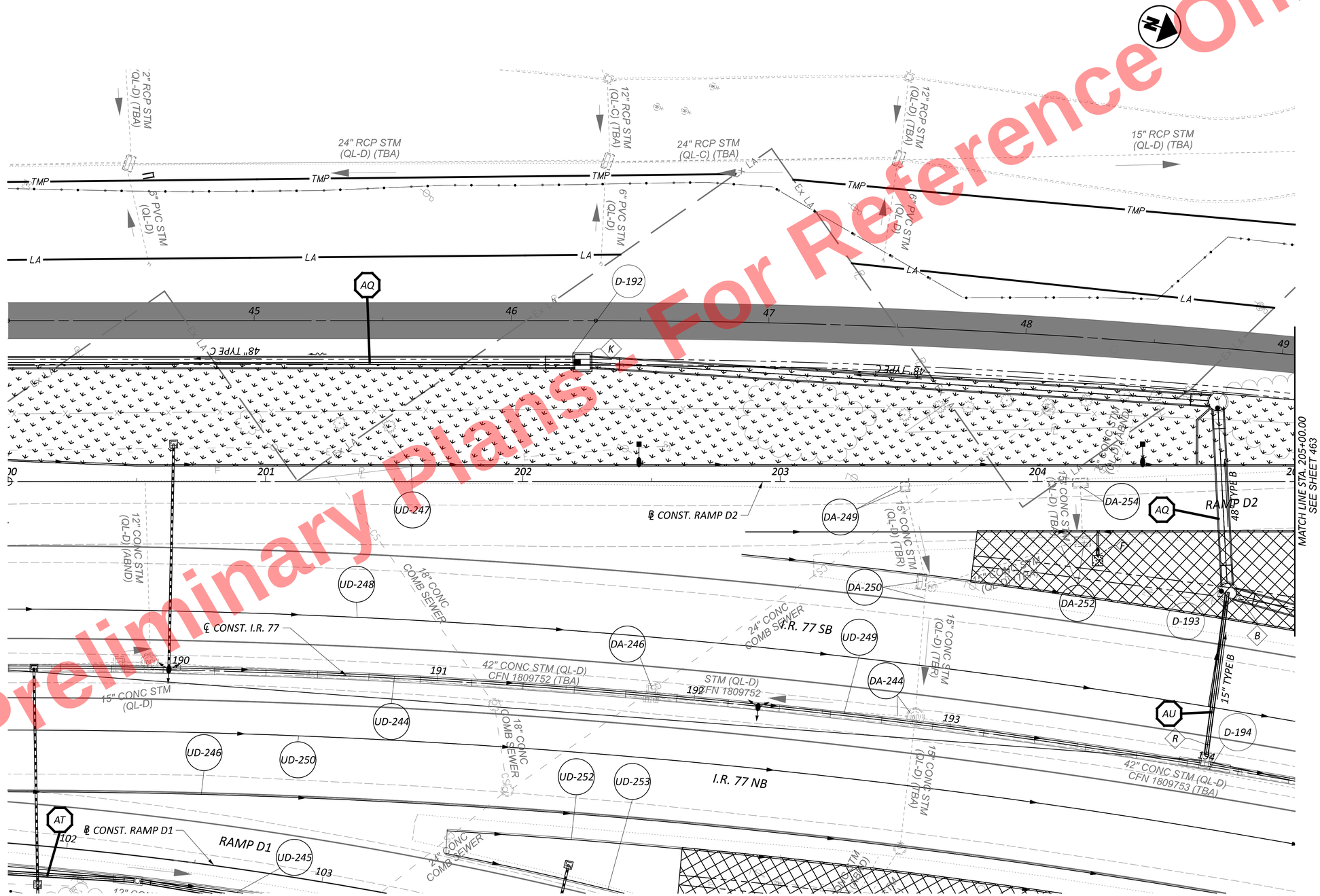
CUY-77-11.41 - PART 1

## NOTES

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# DRAINAGE PLAN - RAMP D2
# BEGINNING TO STA. 205+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.731 TOTAL P.1135

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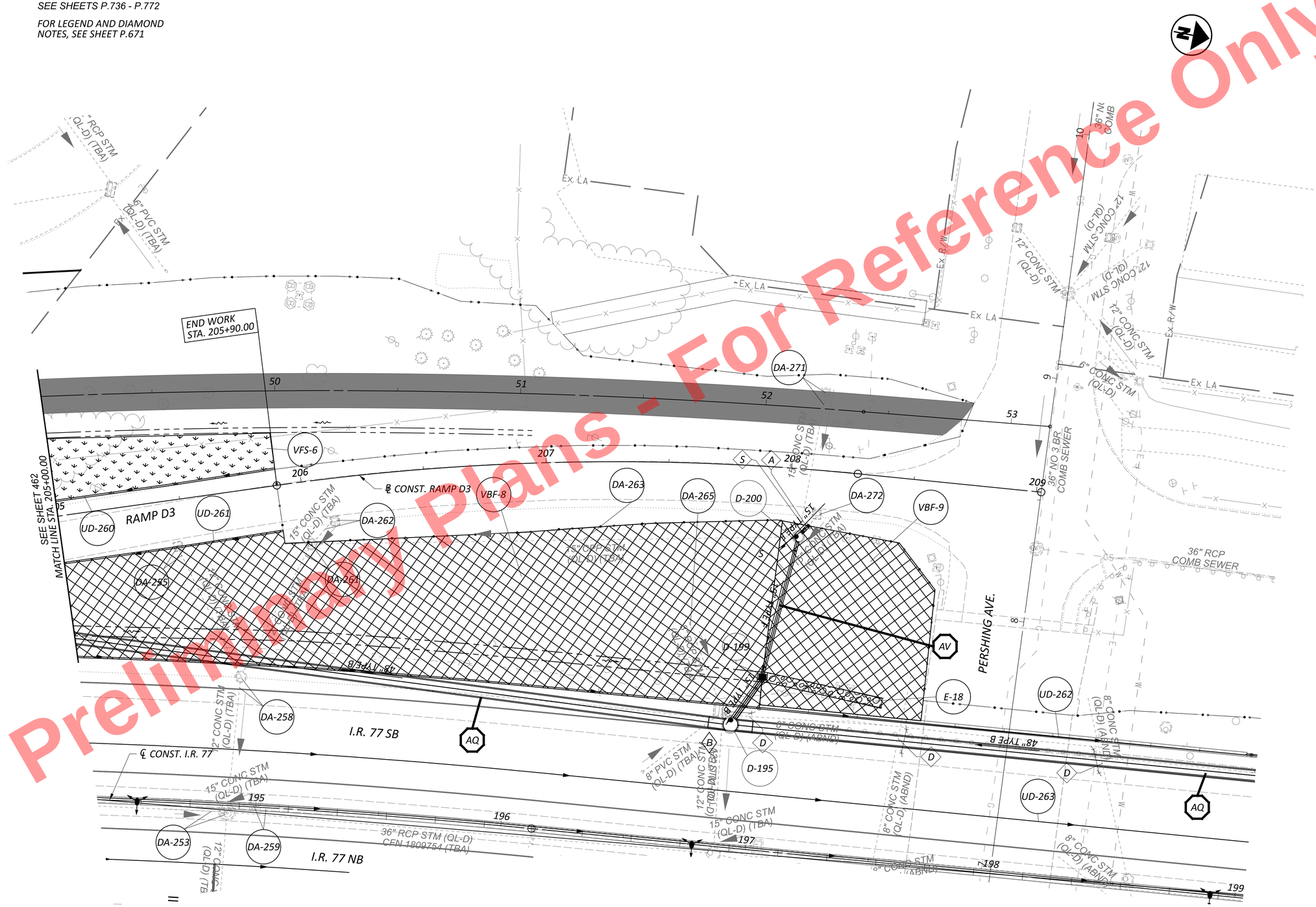
CUY-77-11.41 - PART 1

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

DRAINAGE PLAN - RAMP D2
STA. 205+00.00 TO ENDING

DESIGN AGENCY
AECOM

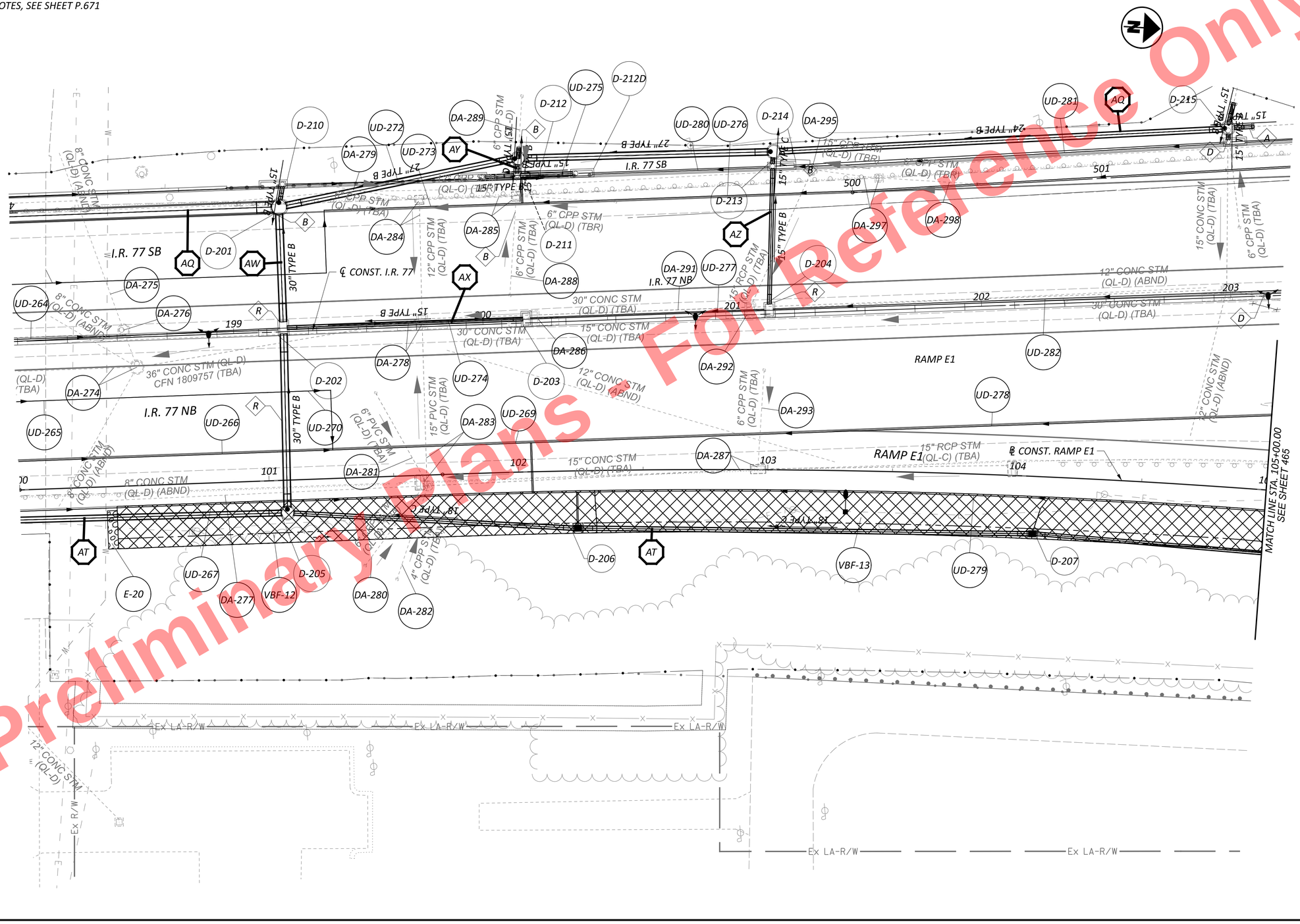
DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.732 TOTAL P.1135

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans
For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP E1
BEGINNING TO STA. 105+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.733 TOTAL P.1135

CUY-77-11.41 - PART 1

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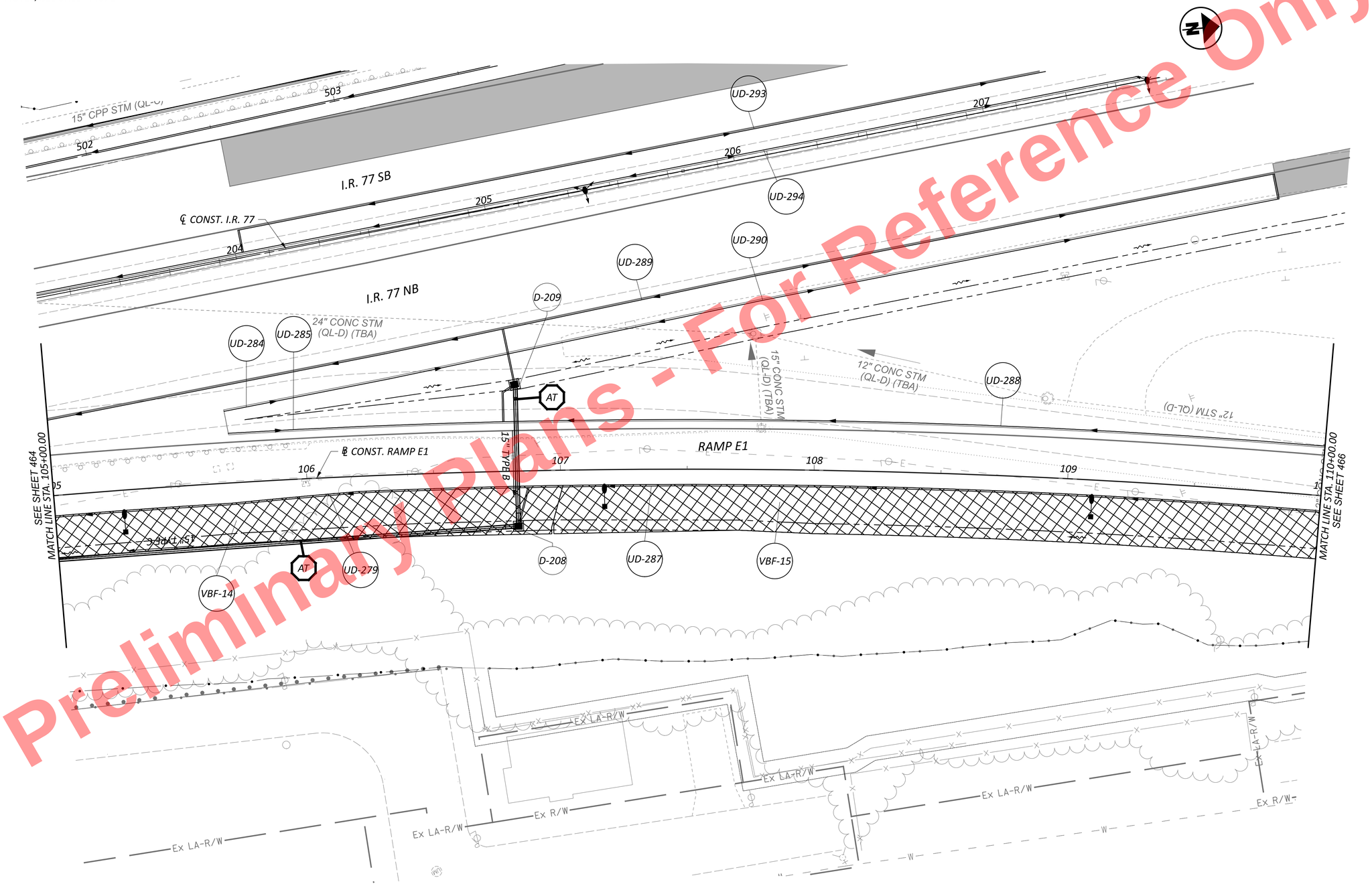
*NOTES*

*FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317*

*FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772*

*FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671*




Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP E1
STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.734 TOTAL P.1135

CUY-77-11.41 - PART 1

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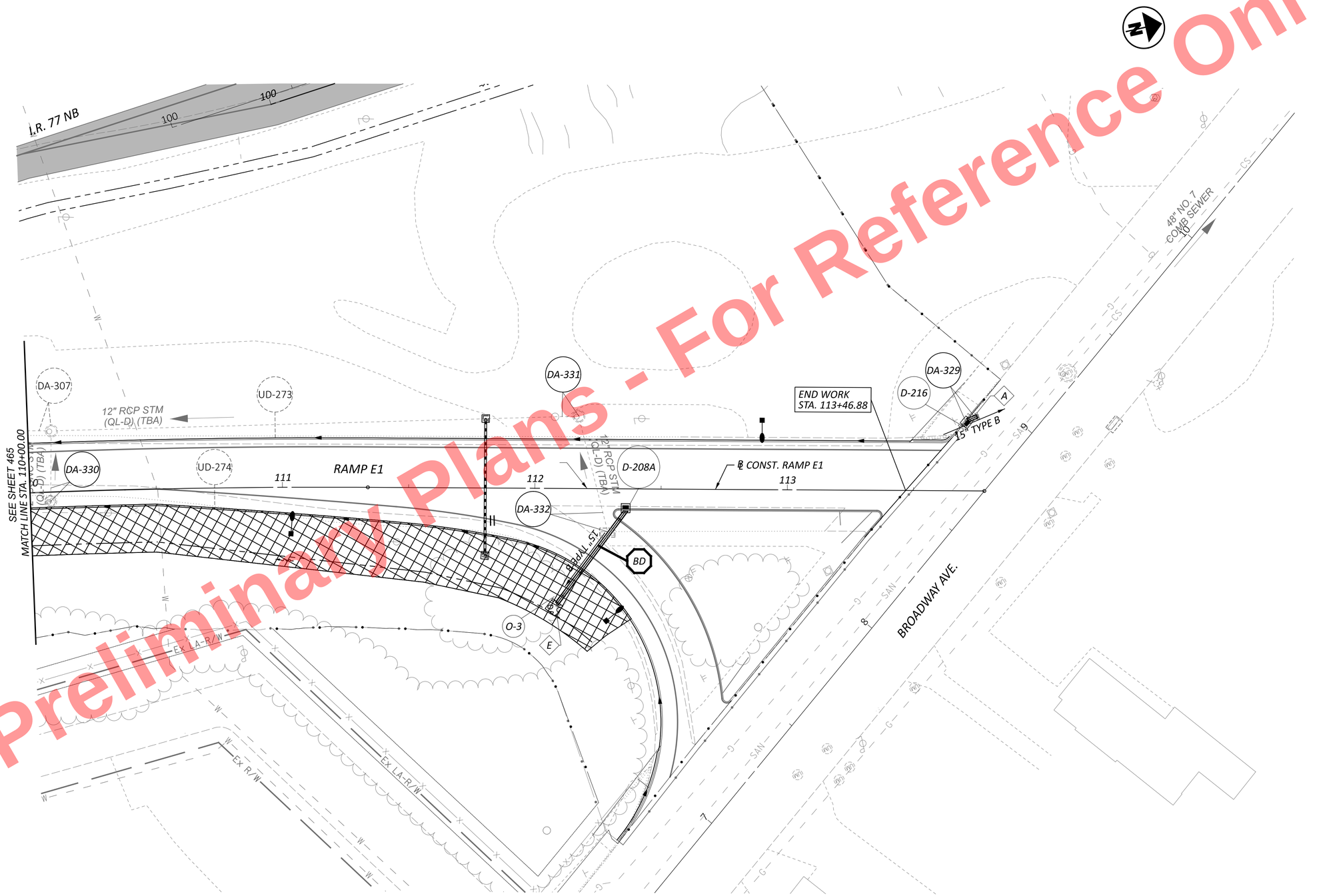
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.736 - P.772

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.671




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP E1
STA. 110+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.735 TOTAL P.1135

CUY-77-11.41 - PART 1

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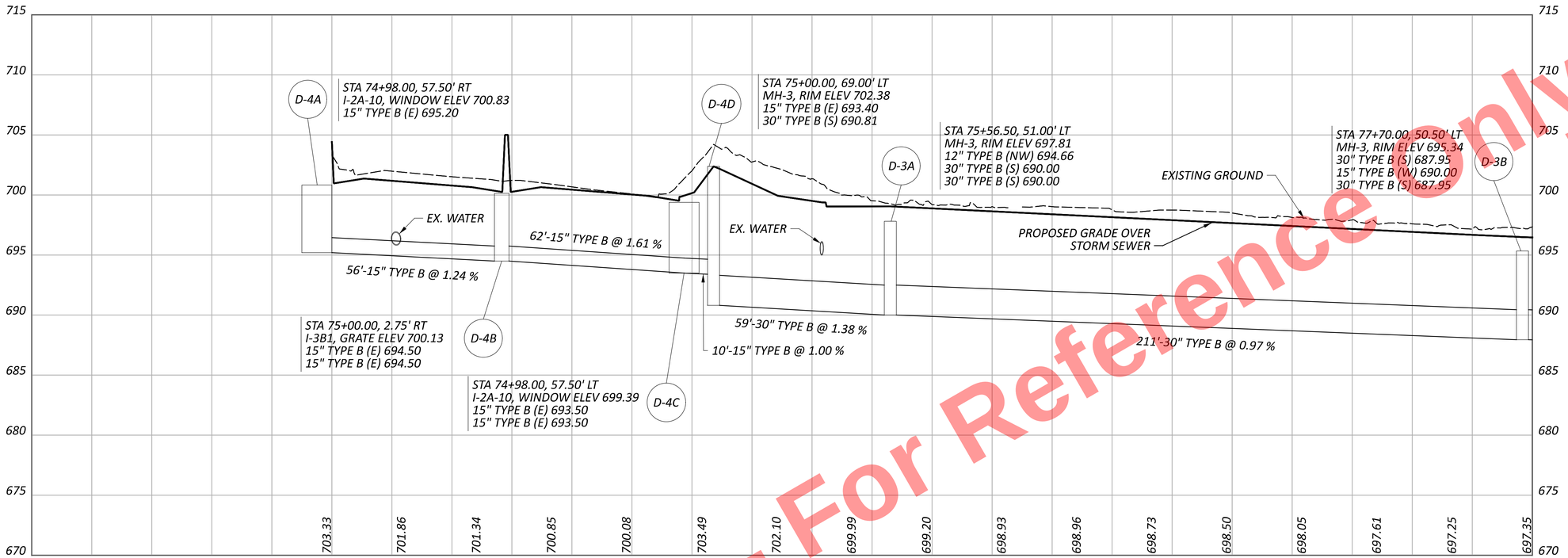
Preliminary Plans - For Reference Only




# DRAINAGE PROFILES - I.R. 77
## PROFILE "A"

CUY-77-11.41 - PART 1

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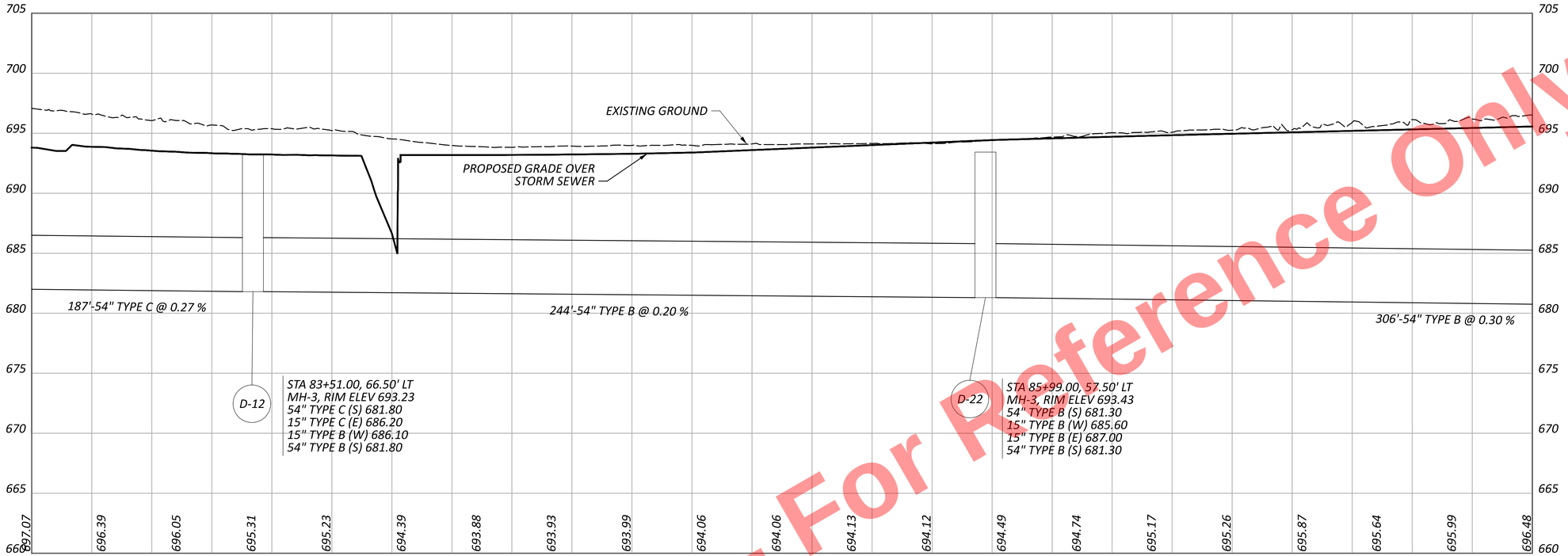
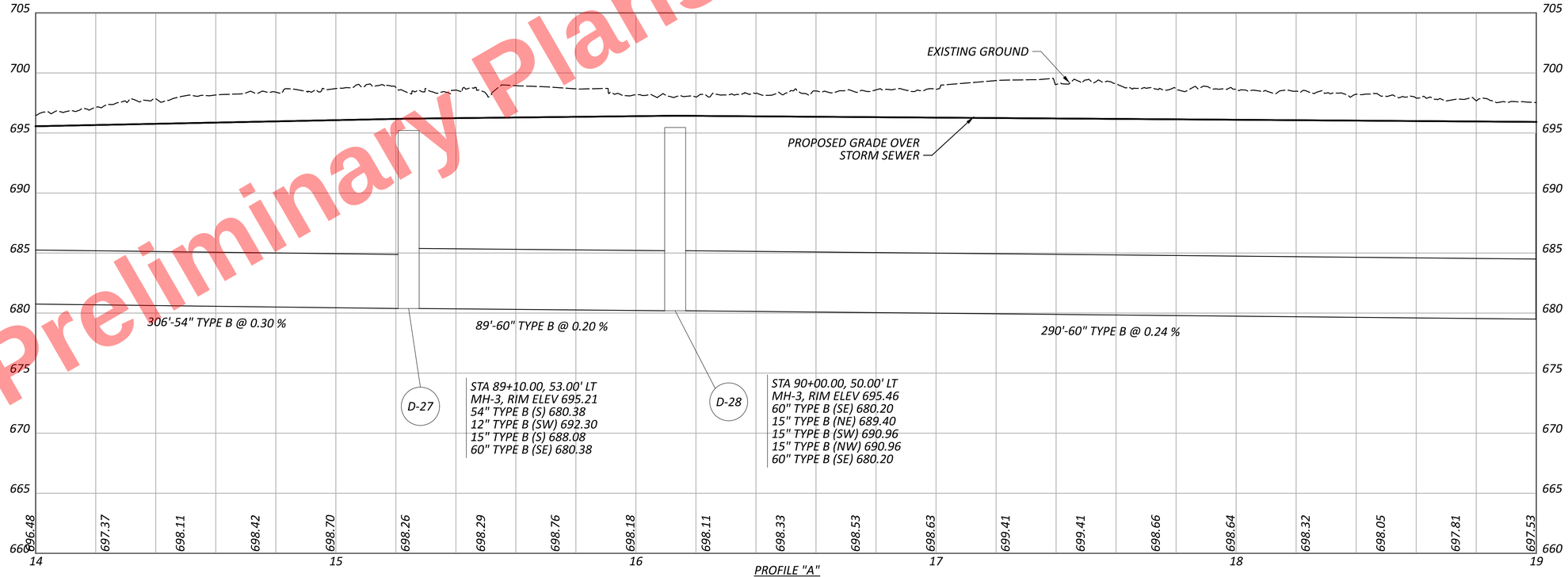
DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.736 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




PROFILE "A"




PROFILE "A"

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.737 TOTAL P.1135

CUY-77-11.41 - PART 1

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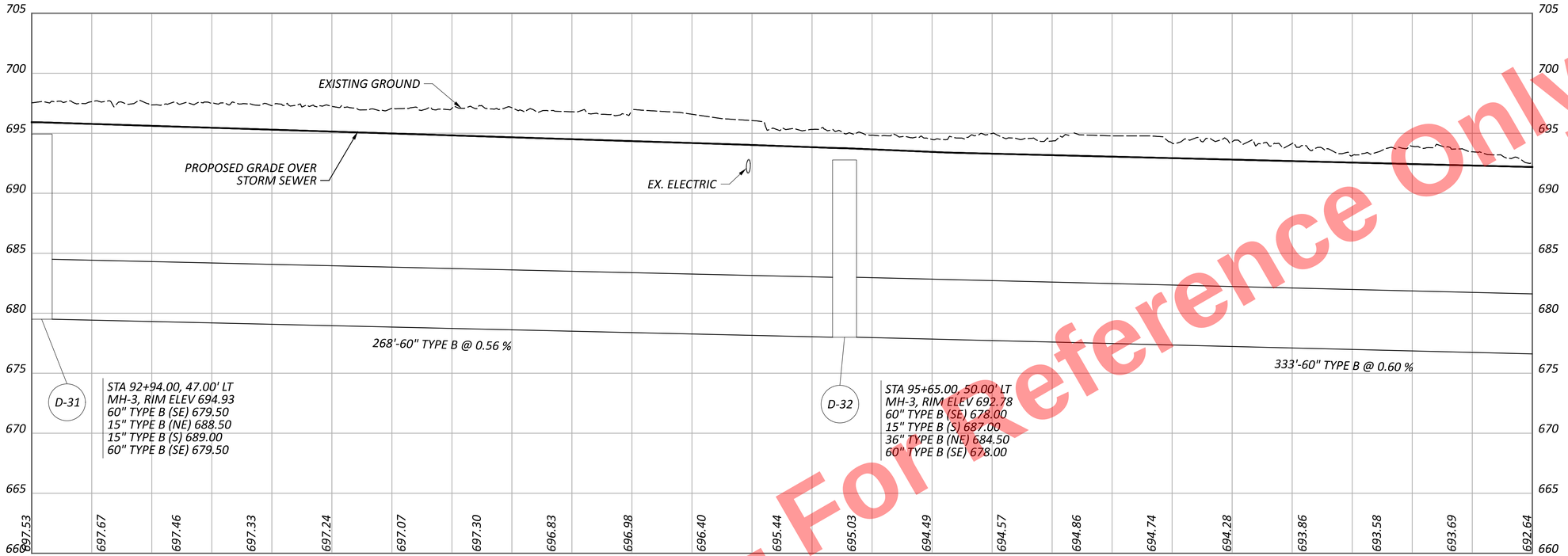
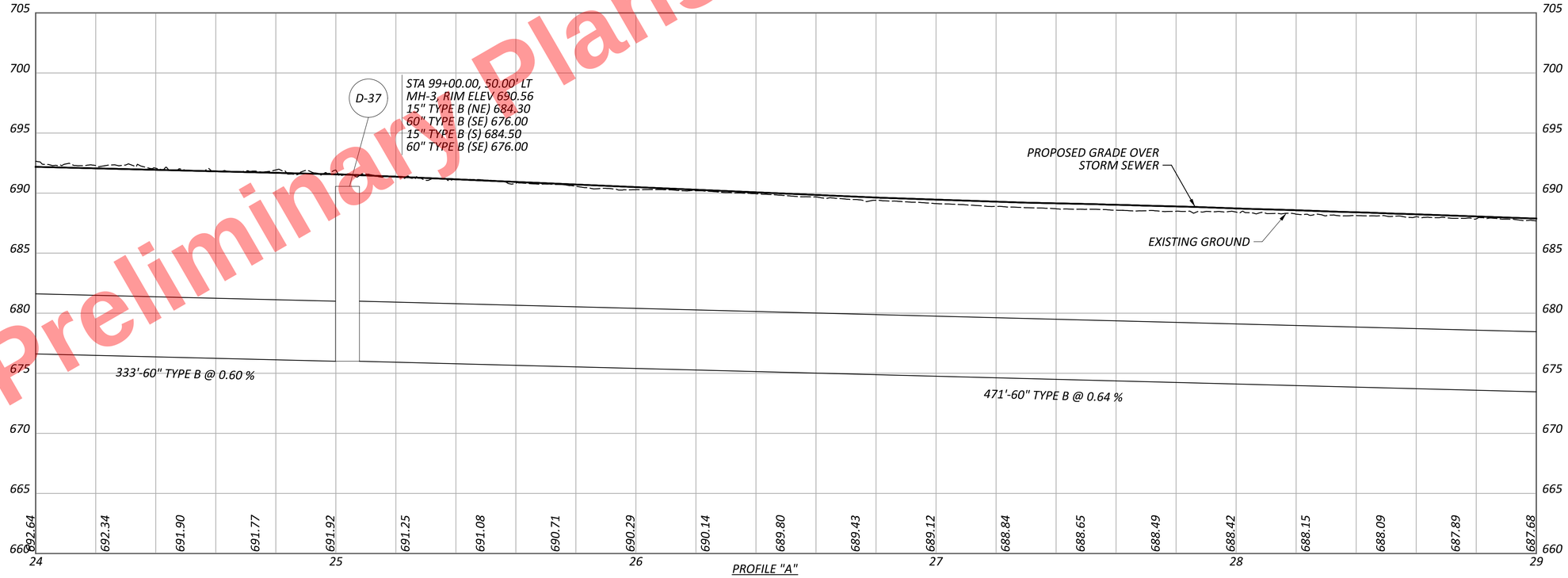



PROFILE "A"




PROFILE "A"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

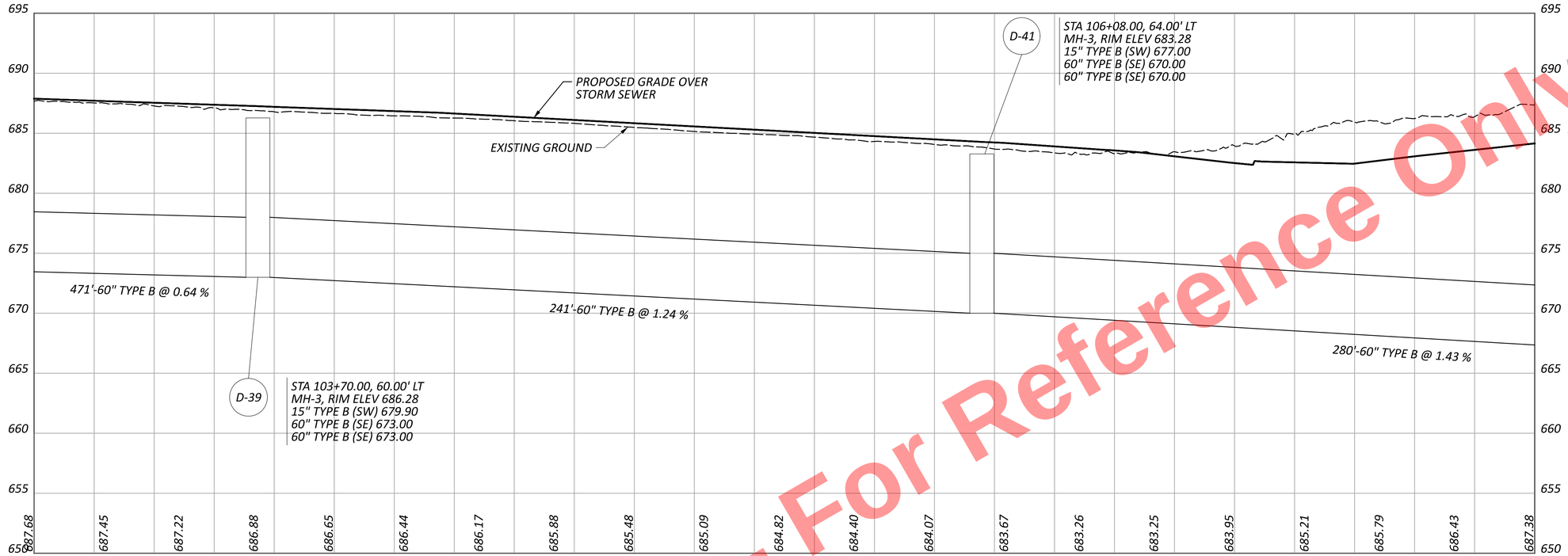
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.738 | TOTAL P.1135

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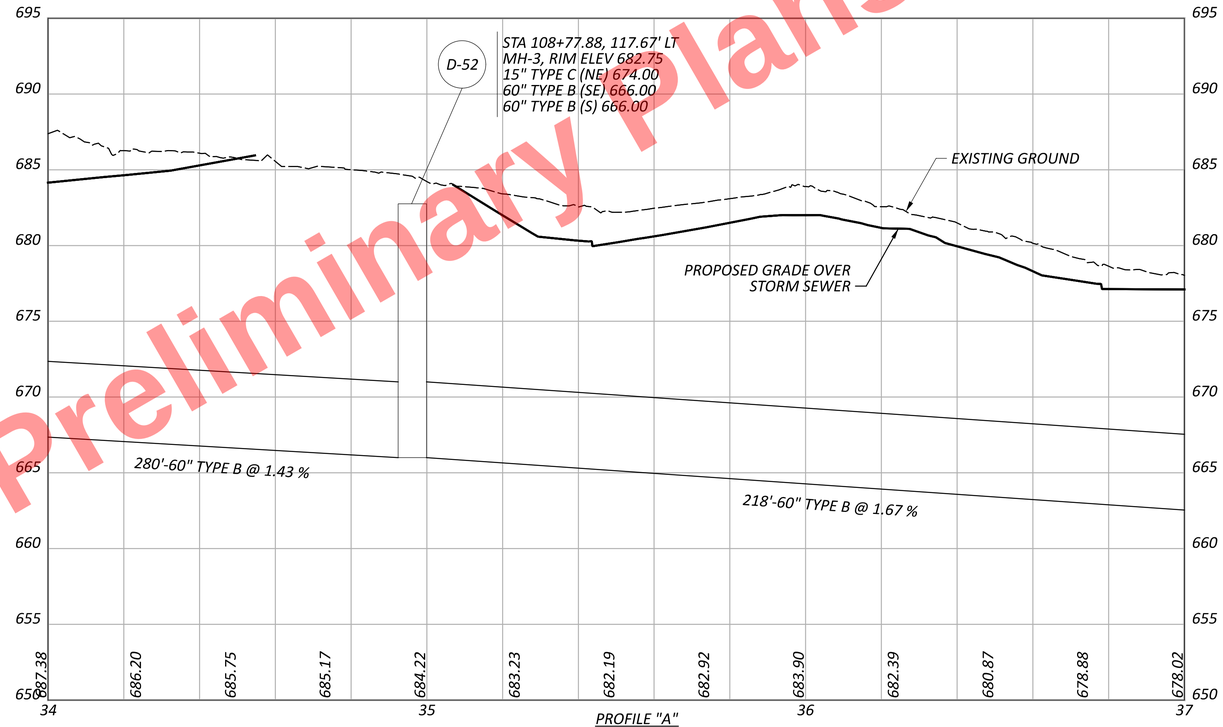


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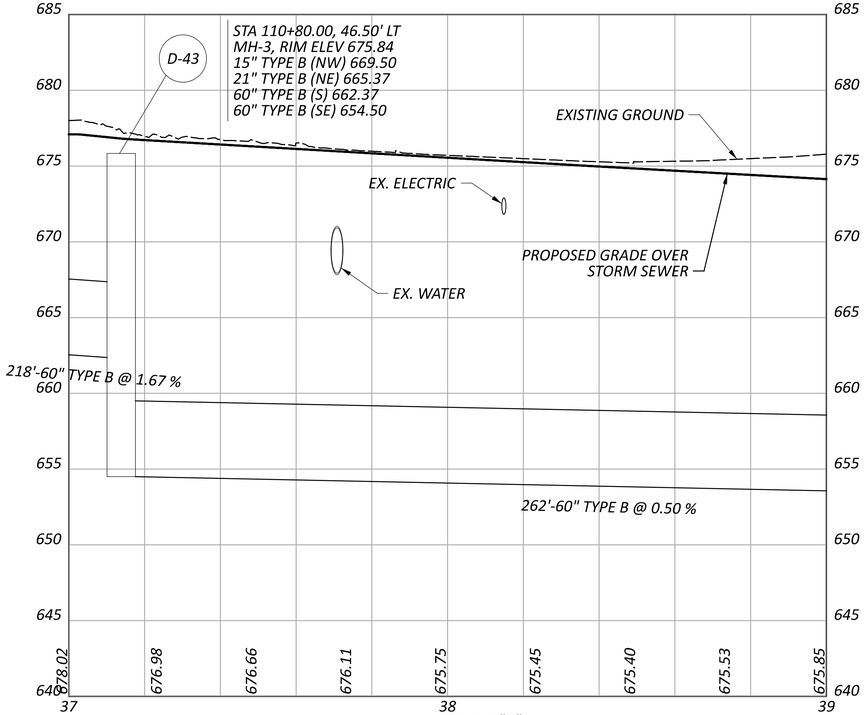


PROFILE "A"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.739 |
| TOTAL | P.1135 |

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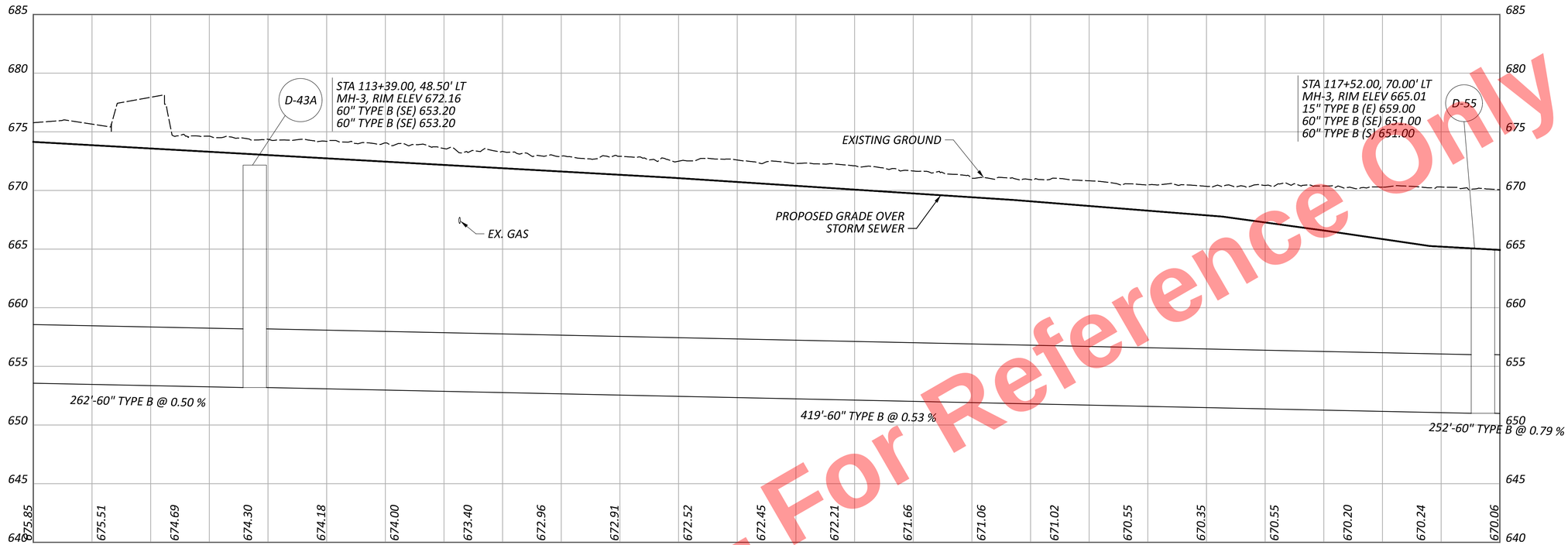


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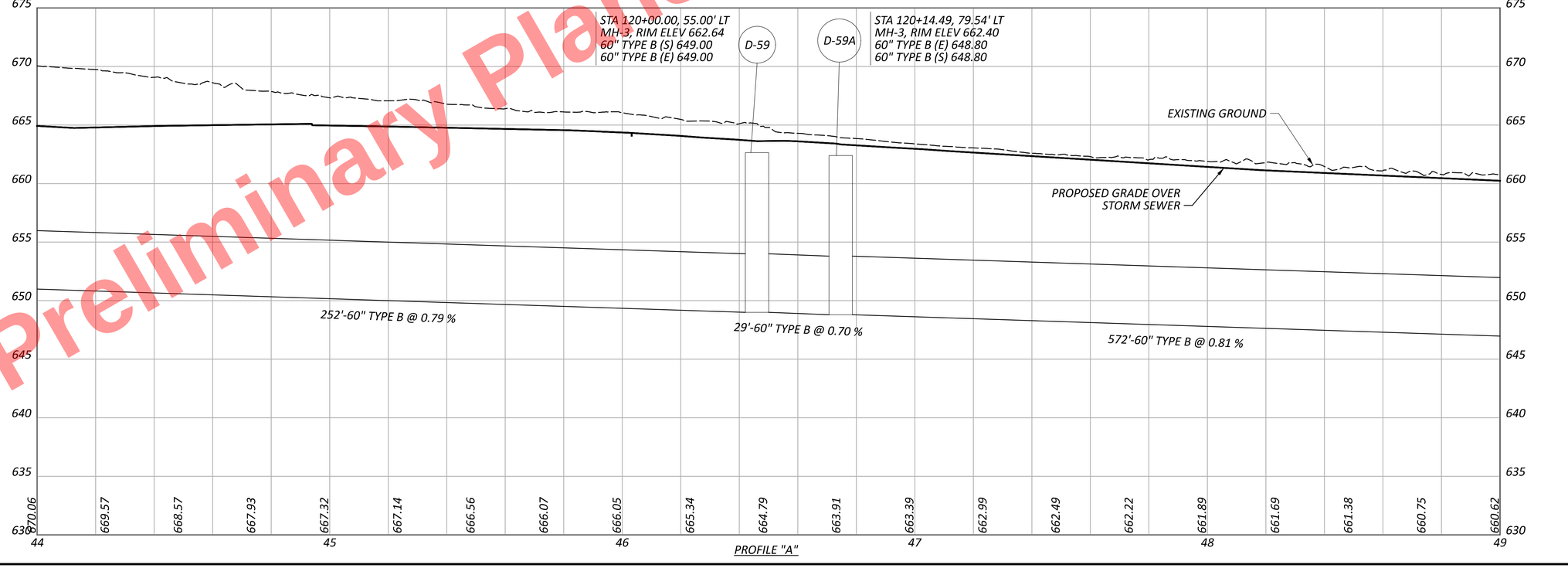


PROFILE "A"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.740 TOTAL P.1135

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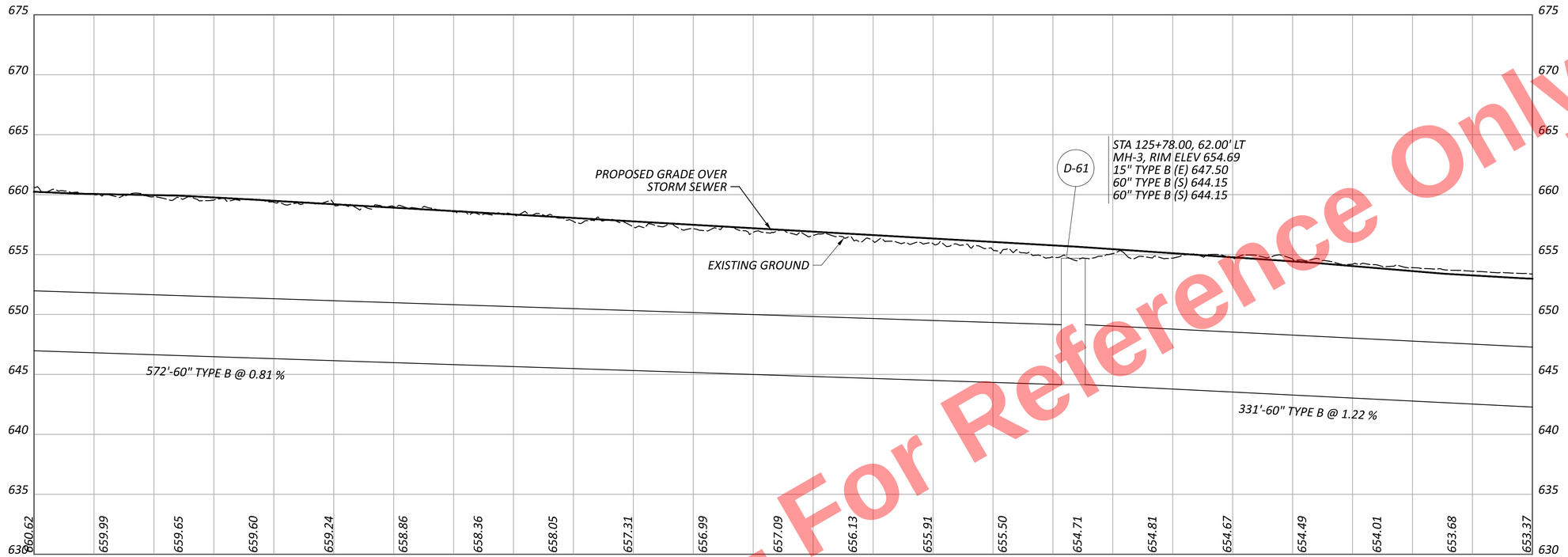
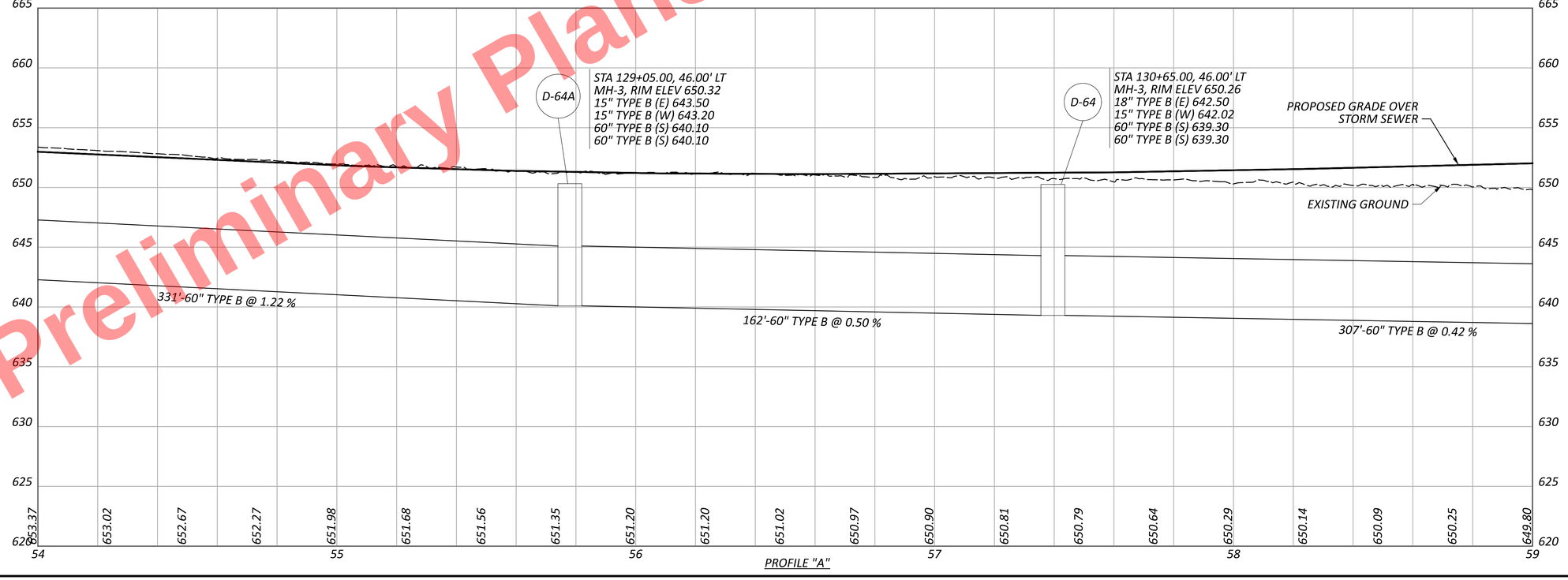
CUY-77-11.41 - PART 1




PROFILE "A"




PROFILE "A"

Preliminary Plans - For Reference Only

DRAINAGE PROFILE - I.R. 77
PROFILE "A"

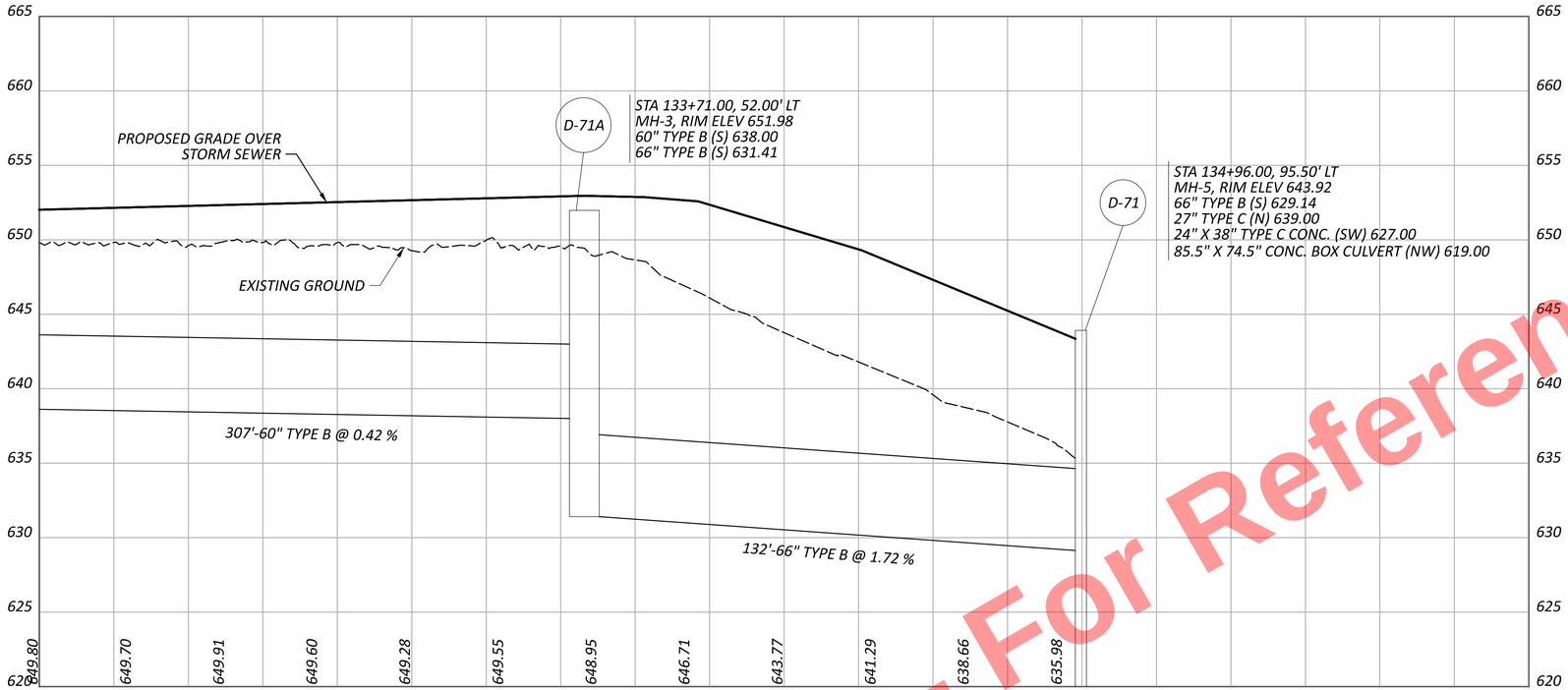
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.741 | TOTAL P.1135

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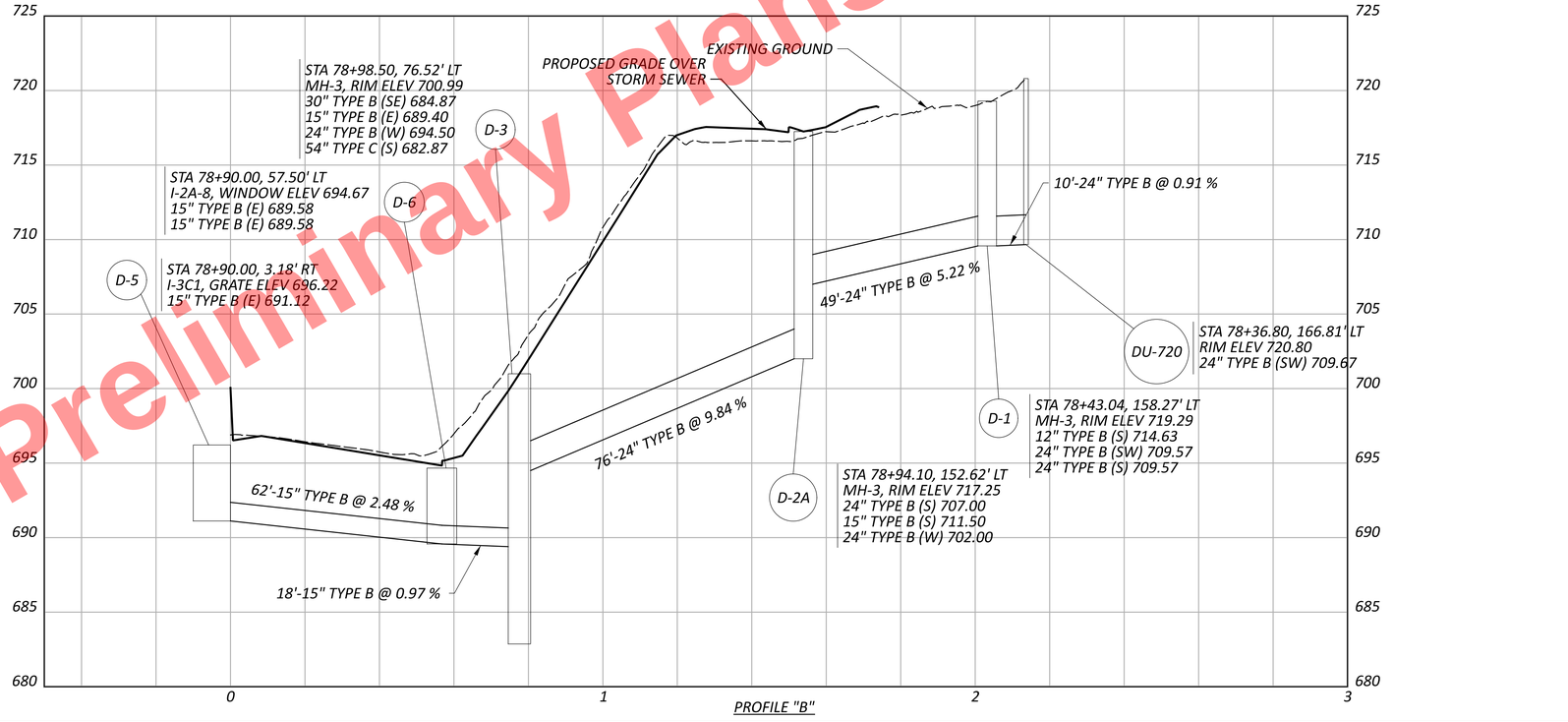


PROFILE "B"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILES "A", "B"

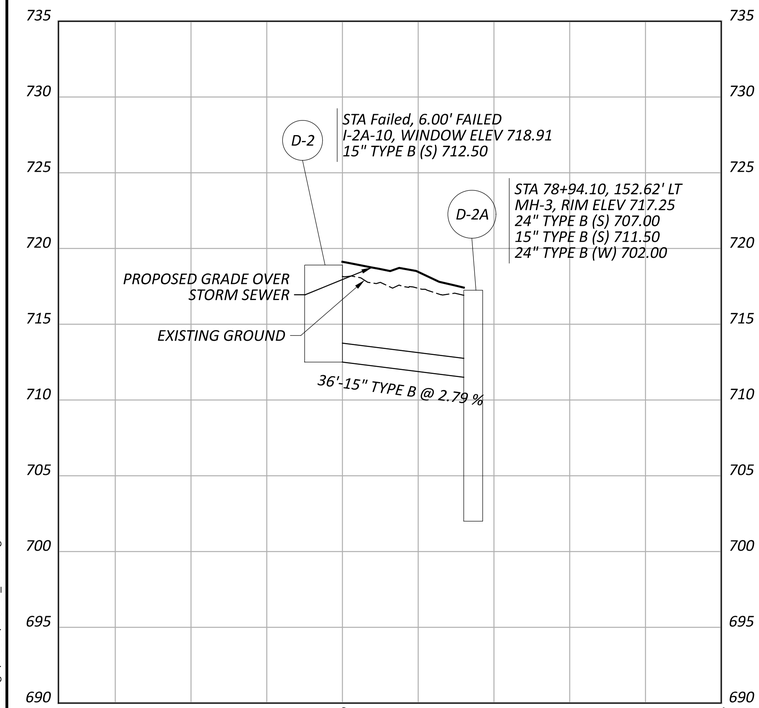
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.742 | TOTAL P.1135

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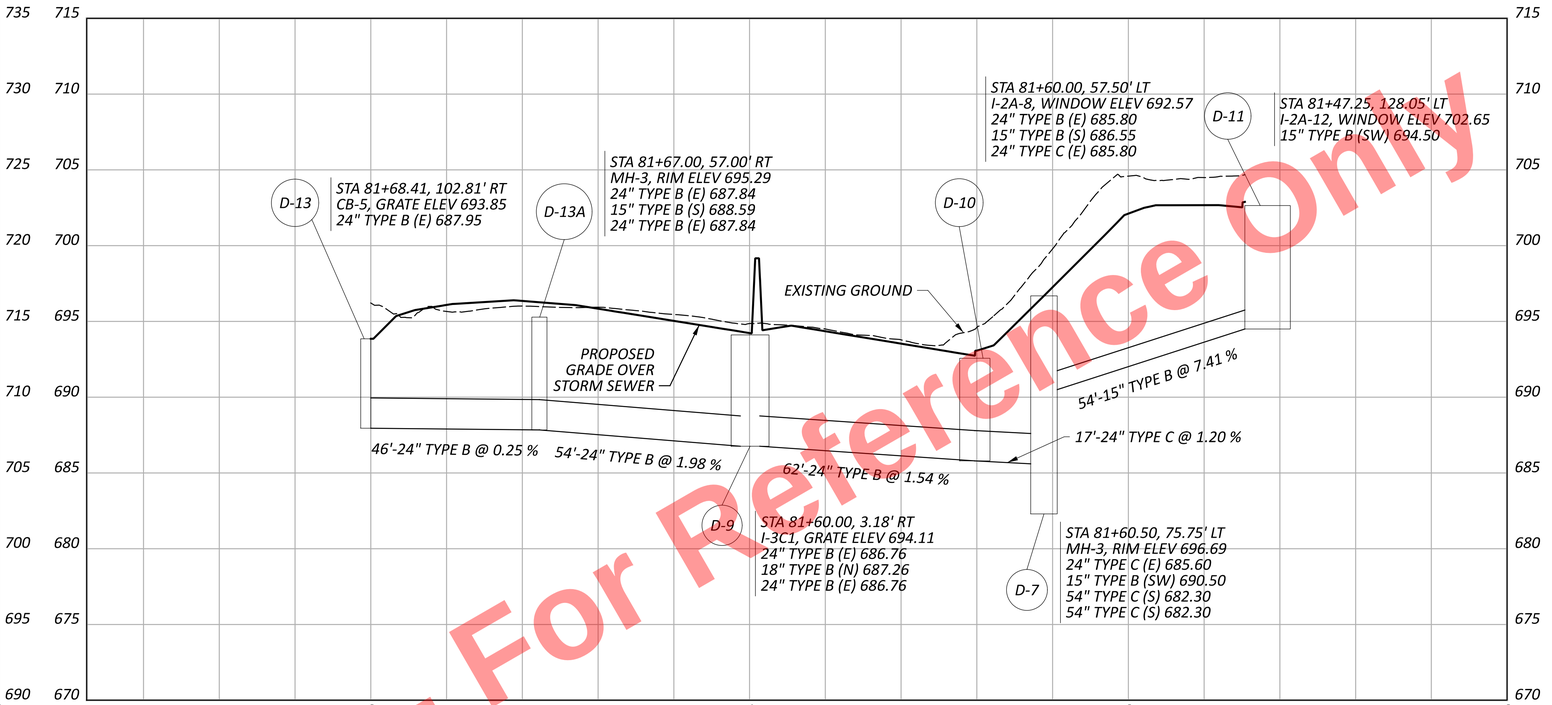


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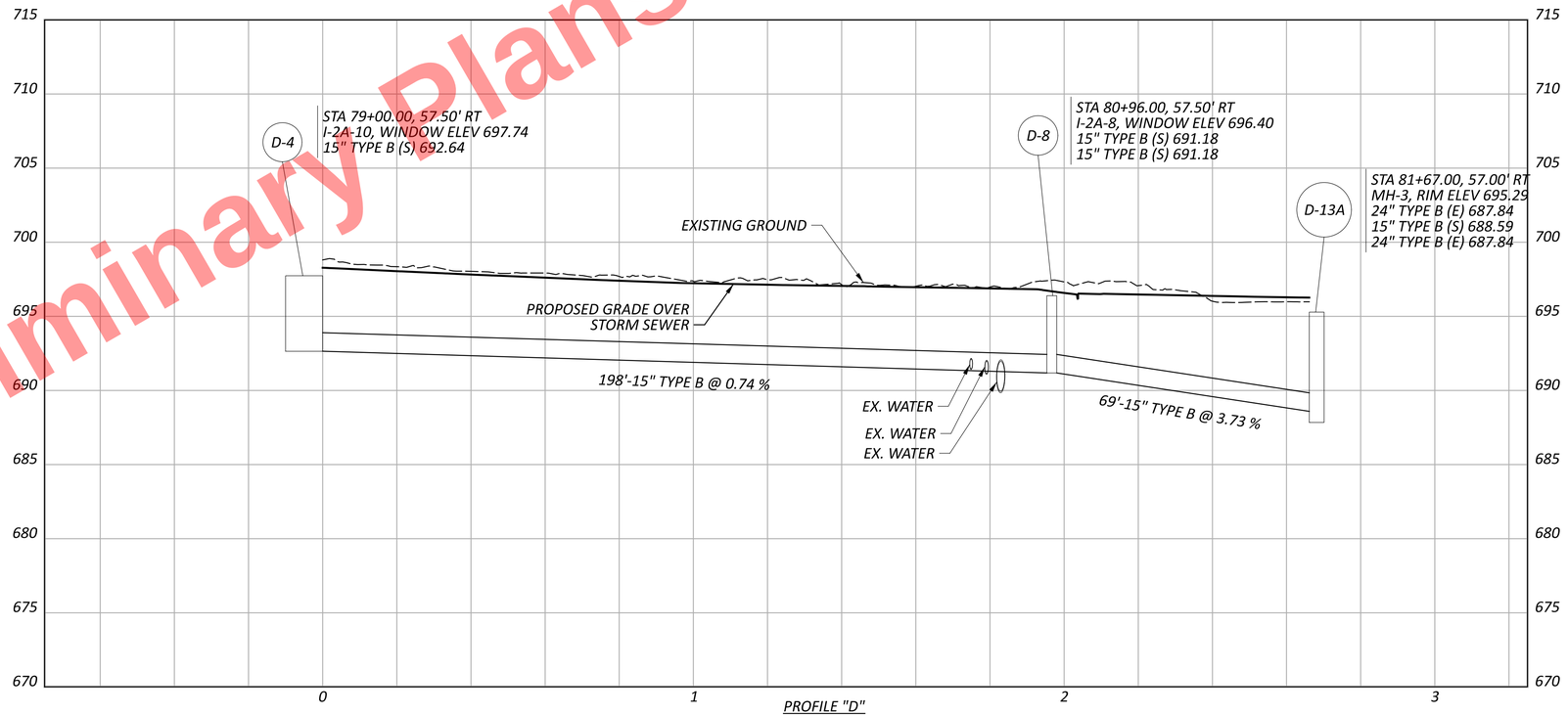


PROFILE "D"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF102.dgn

DRAINAGE PROFILES - I.R. 77
PROFILES "C", "D", "E"

DESIGN AGENCY
AECOM

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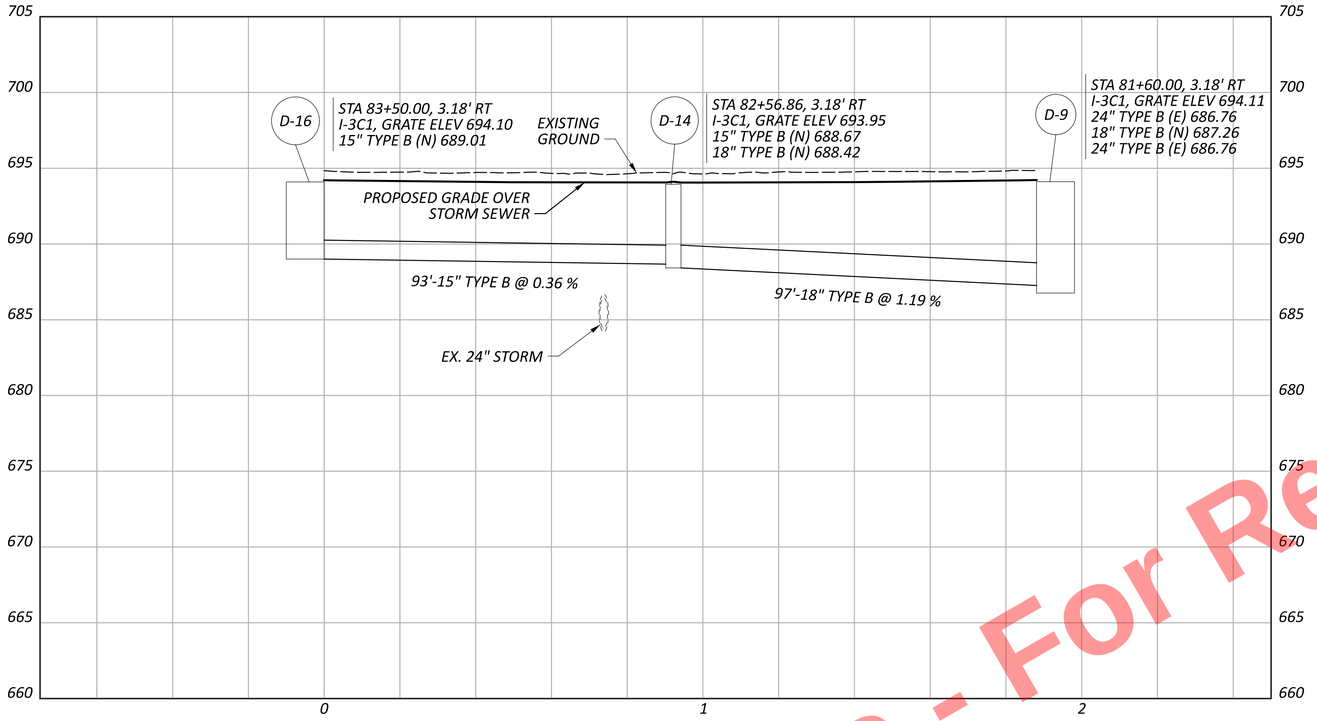
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.743 |
| TOTAL | P.1135 |

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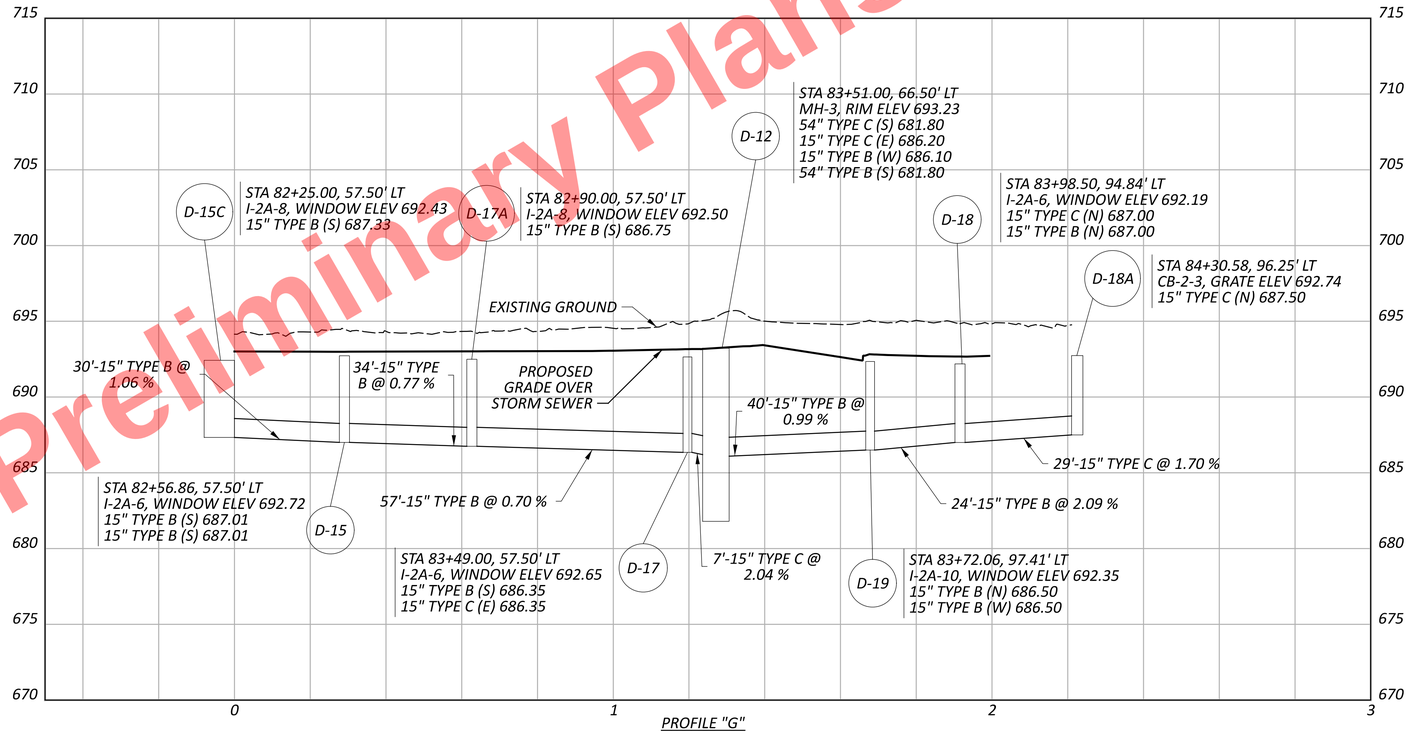


PROFILE "G"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "F", "G"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.744 TOTAL P.1135

CUY-77-11.41 - PART 1

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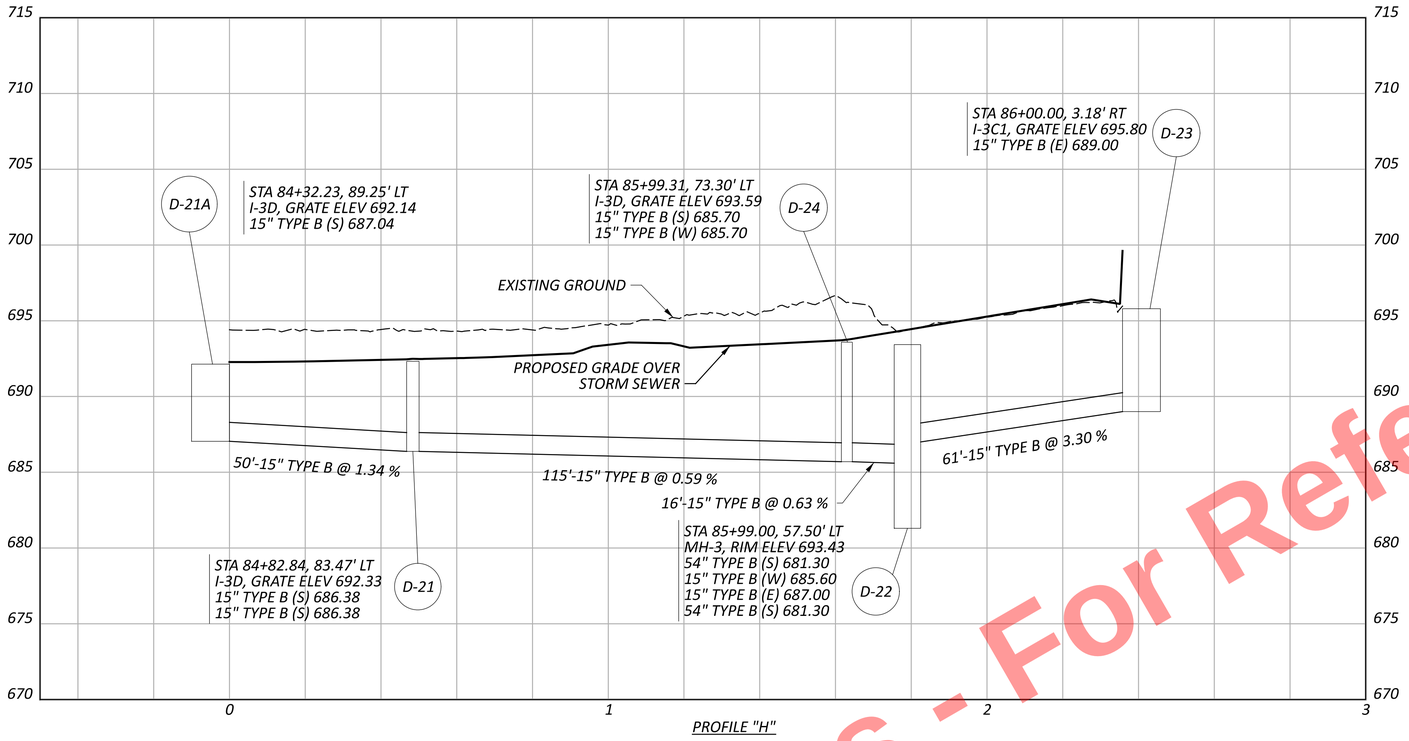
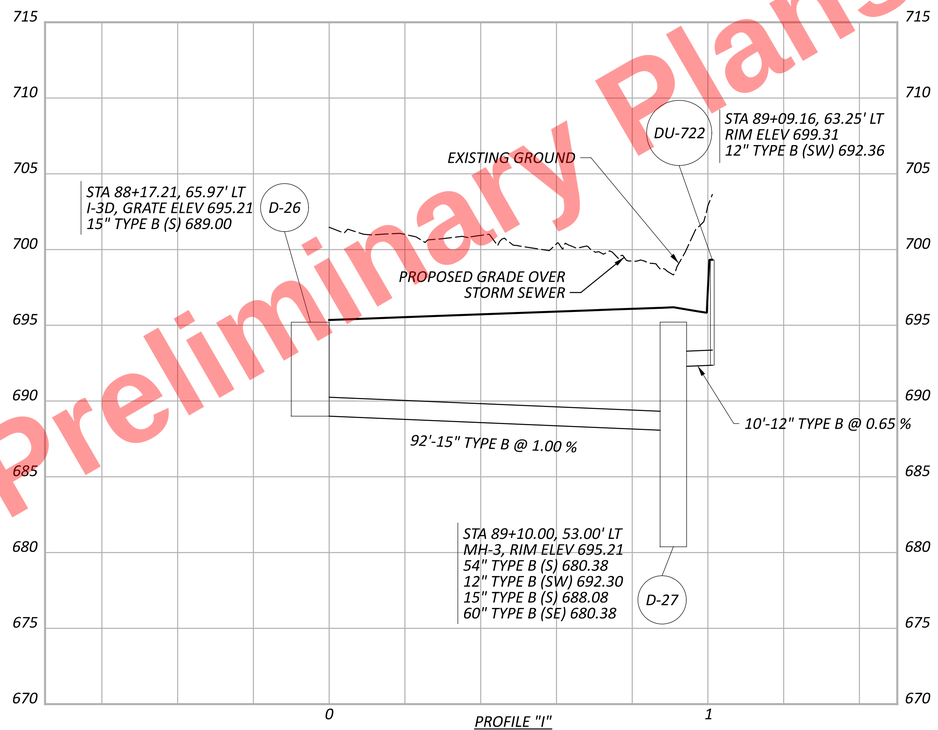



PROFILE "H"




PROFILE "I"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "H", "I"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.745 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:52:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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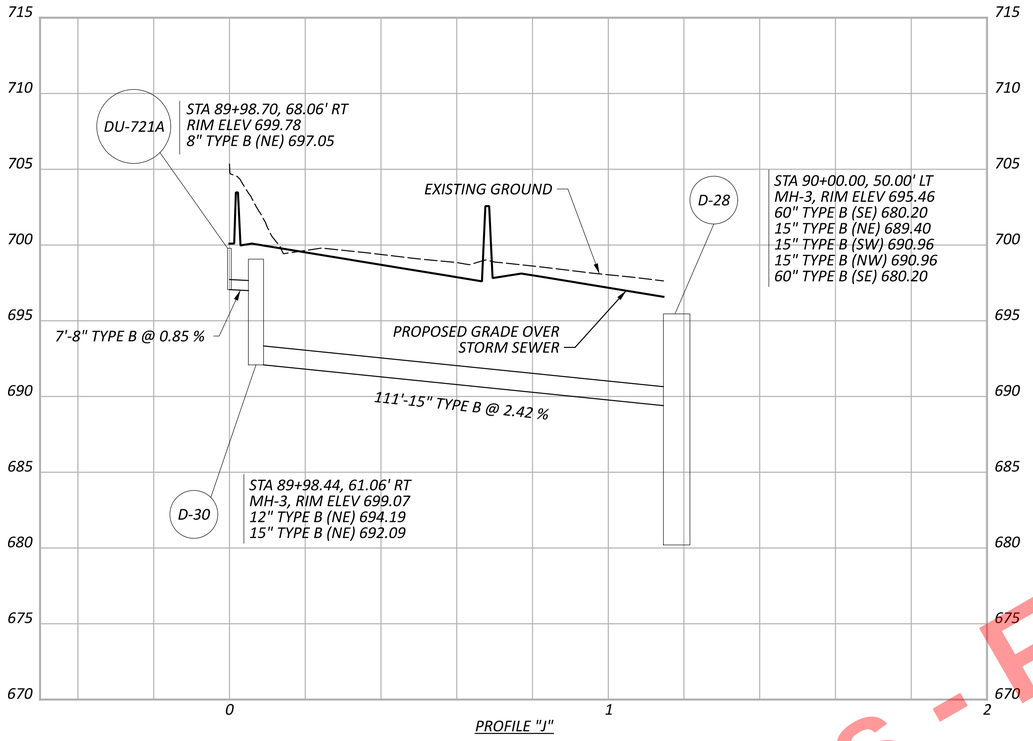
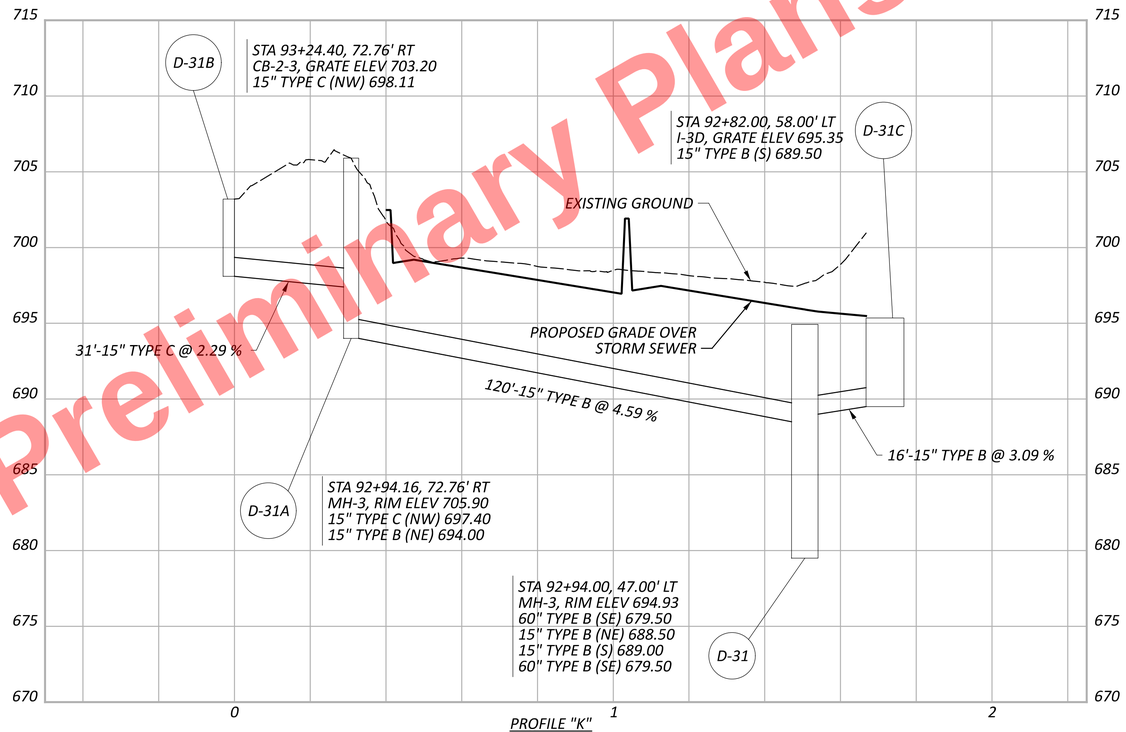



PROFILE "J"




PROFILE "K"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILES "J", "K"

DESIGN AGENCY
AECOM

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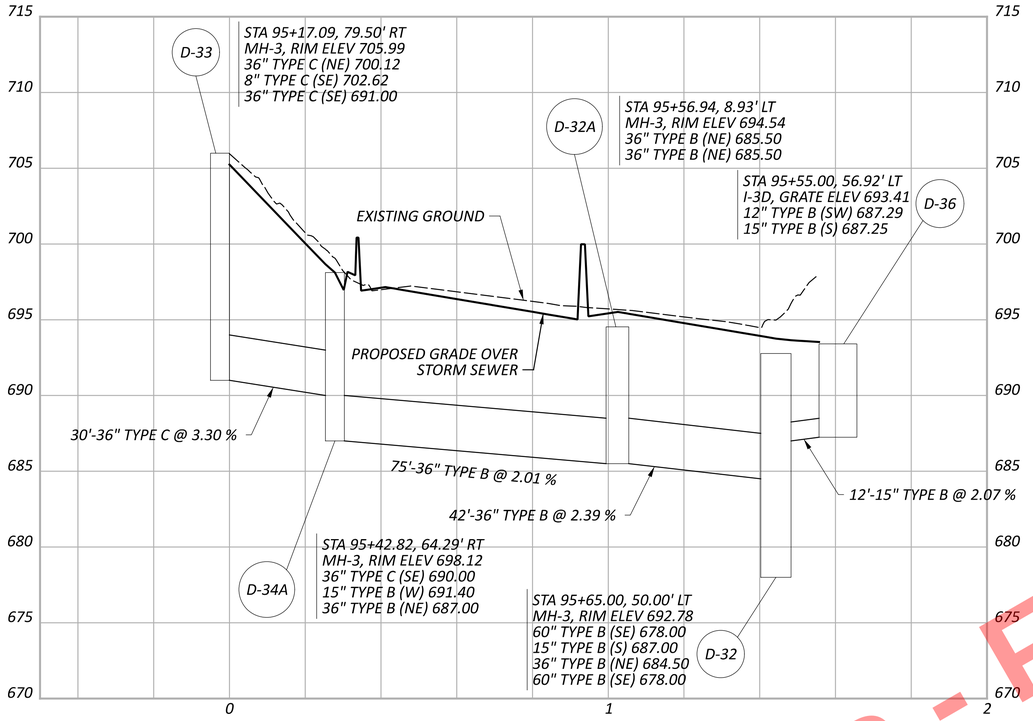
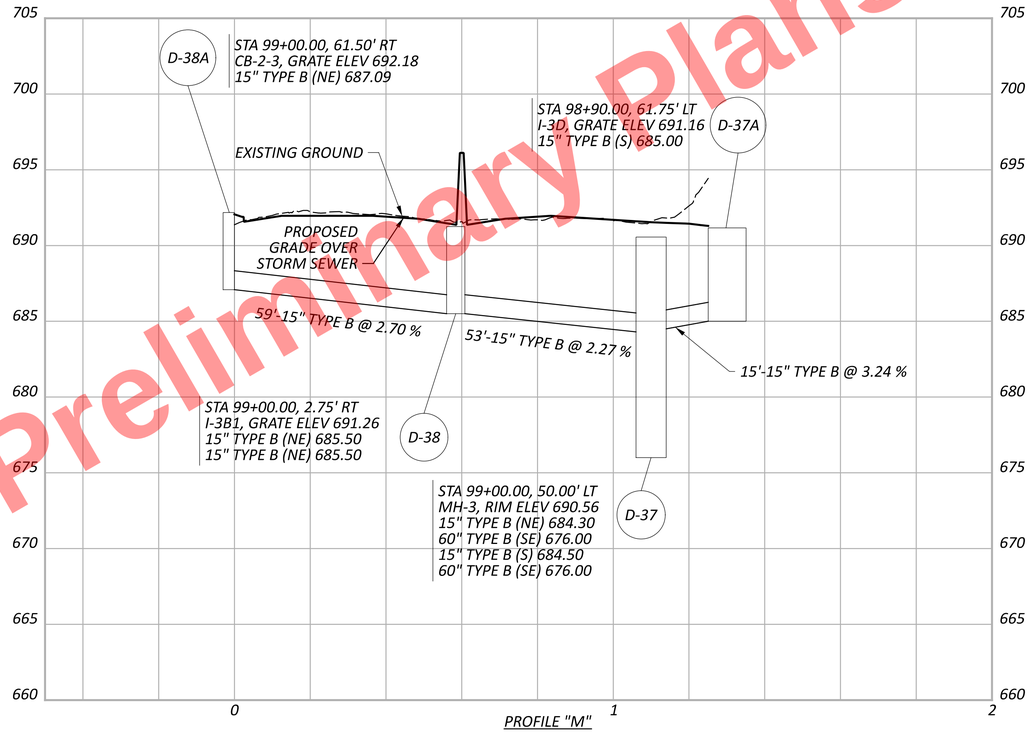
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.746 |
| TOTAL | P.1135 |




PROFILE "L"




PROFILE "M"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "L", "M"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.747 TOTAL P.1135

CUY-77-11.41 - PART 1

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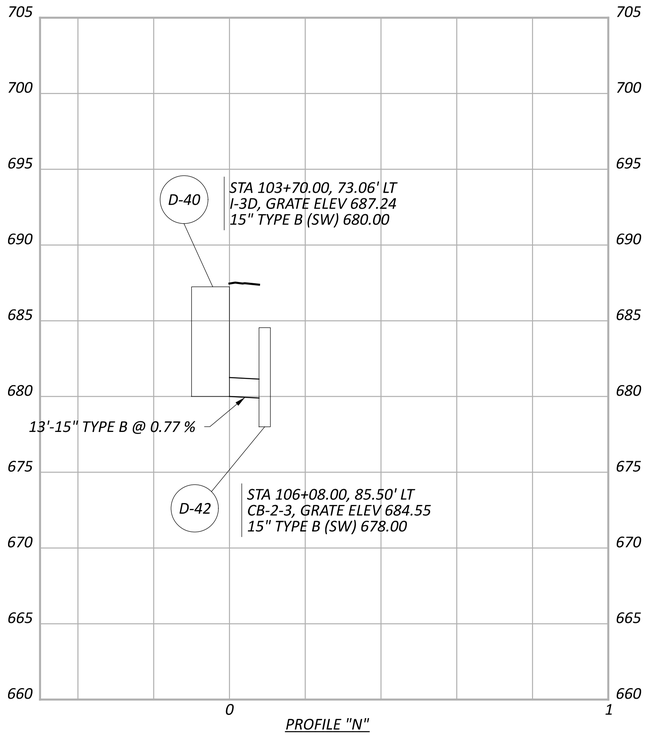


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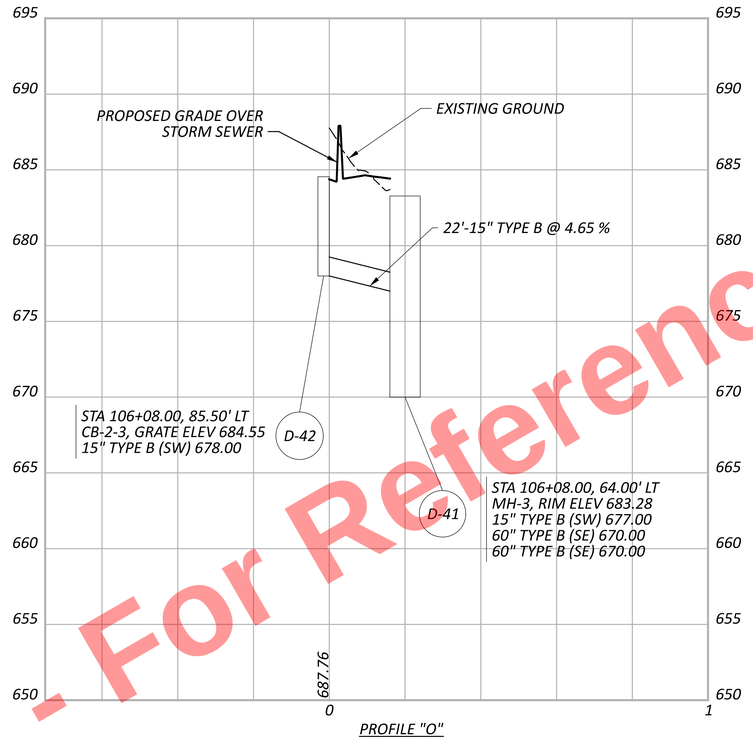
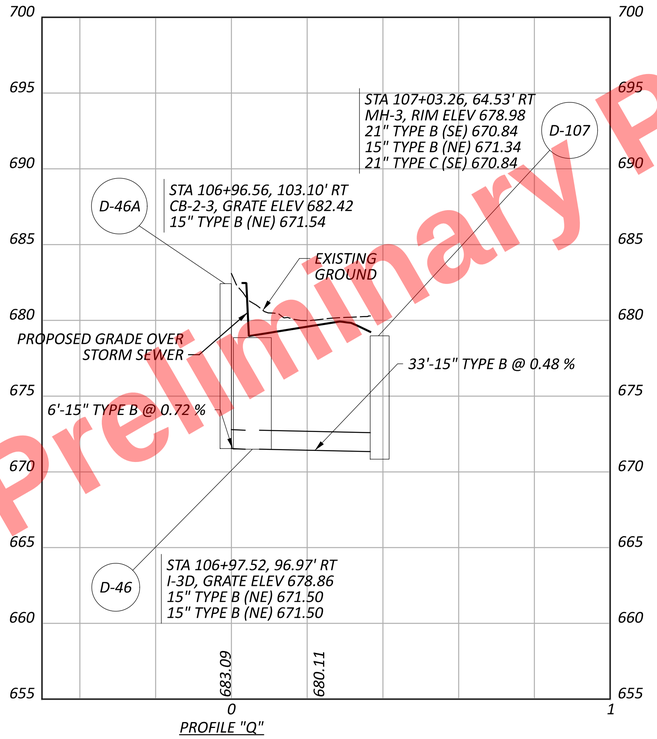



PROFILE "O"

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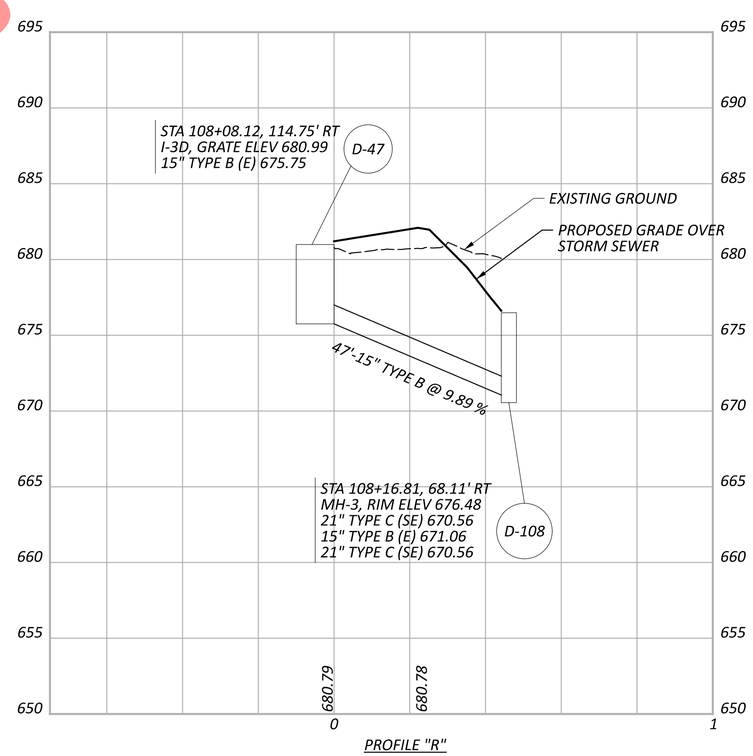


PROFILE "R"

Preliminary Plans - For Reference Only

DRAINGE PROFILES - I.R. 77
PROFILES "N", "O", "Q", "R"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.748 | TOTAL P.1135

CUY-77-11.41 - PART 1

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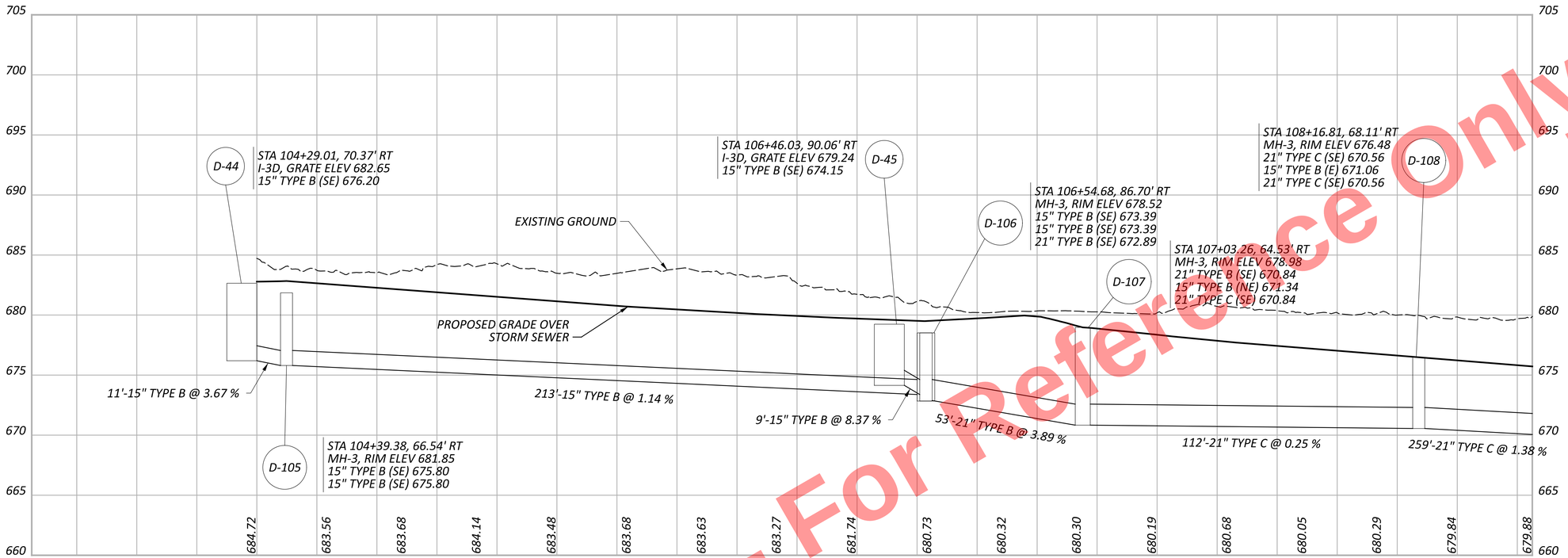


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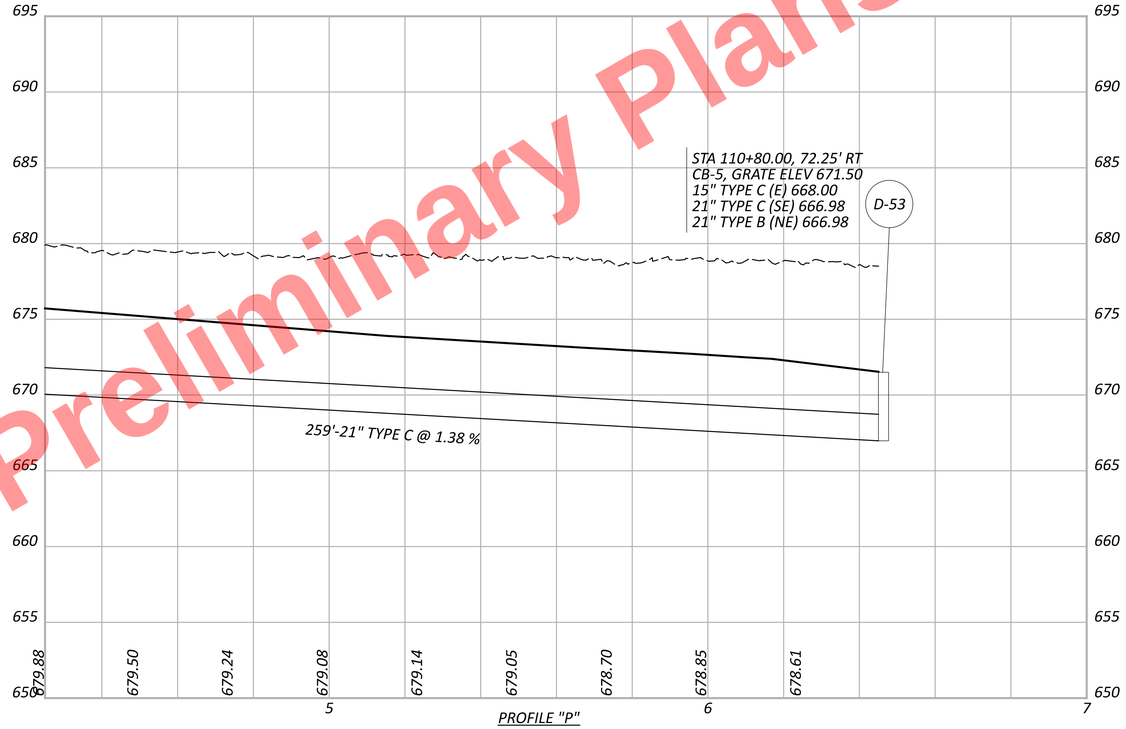


PROFILE "P"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "P"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.749 | TOTAL P.1135

CUY-77-11.41 - PART 1

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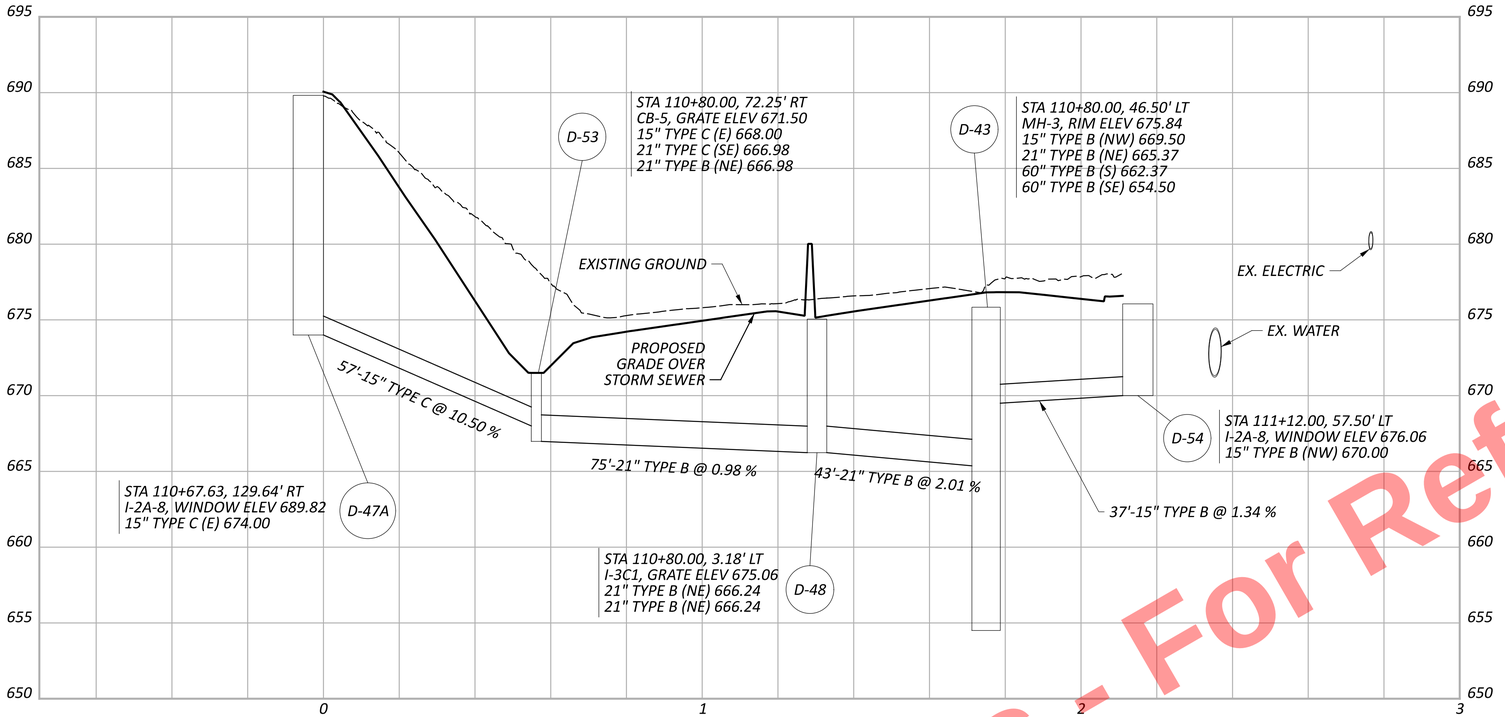


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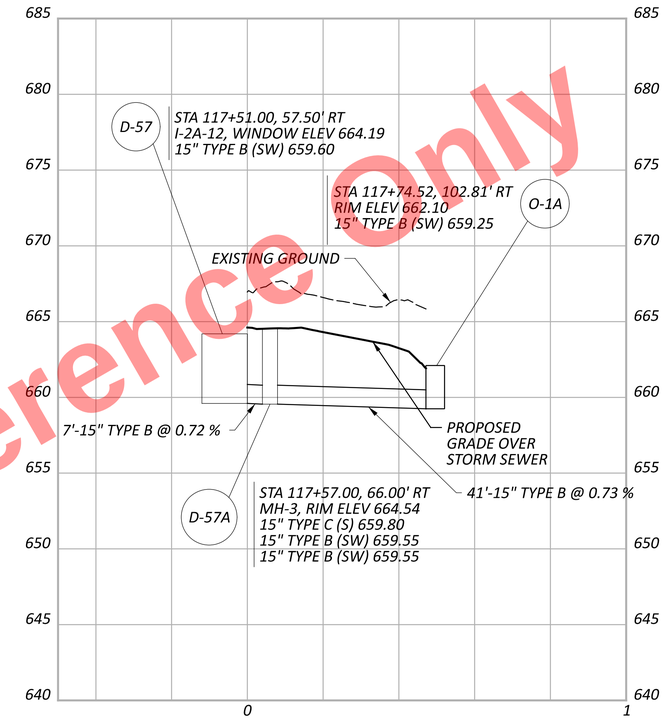


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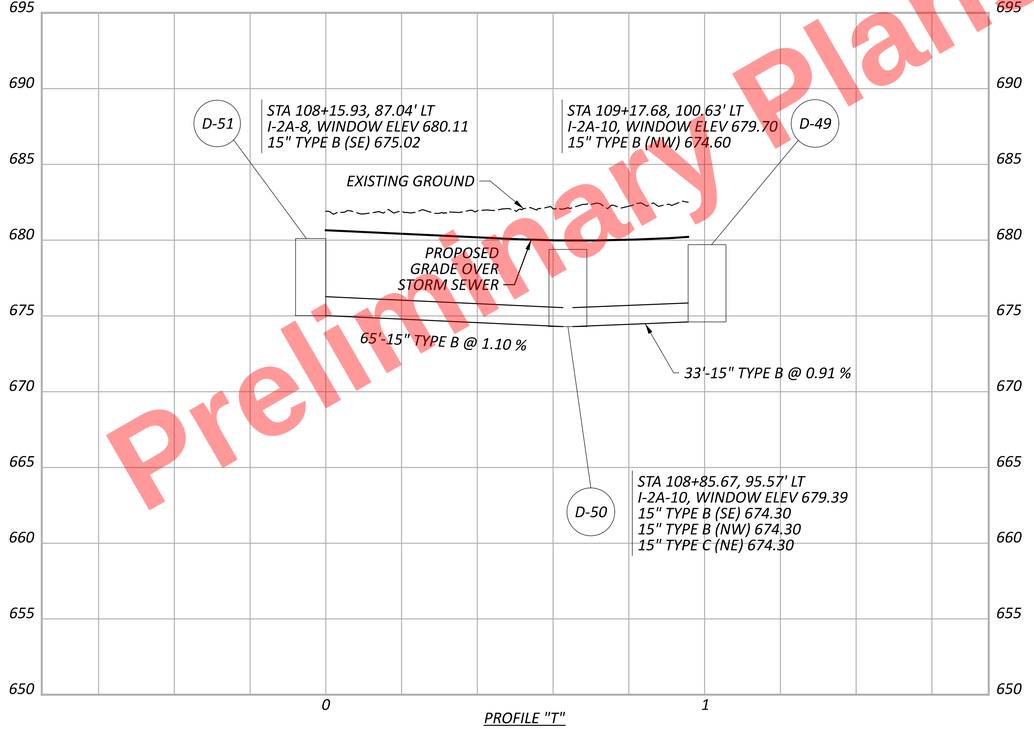
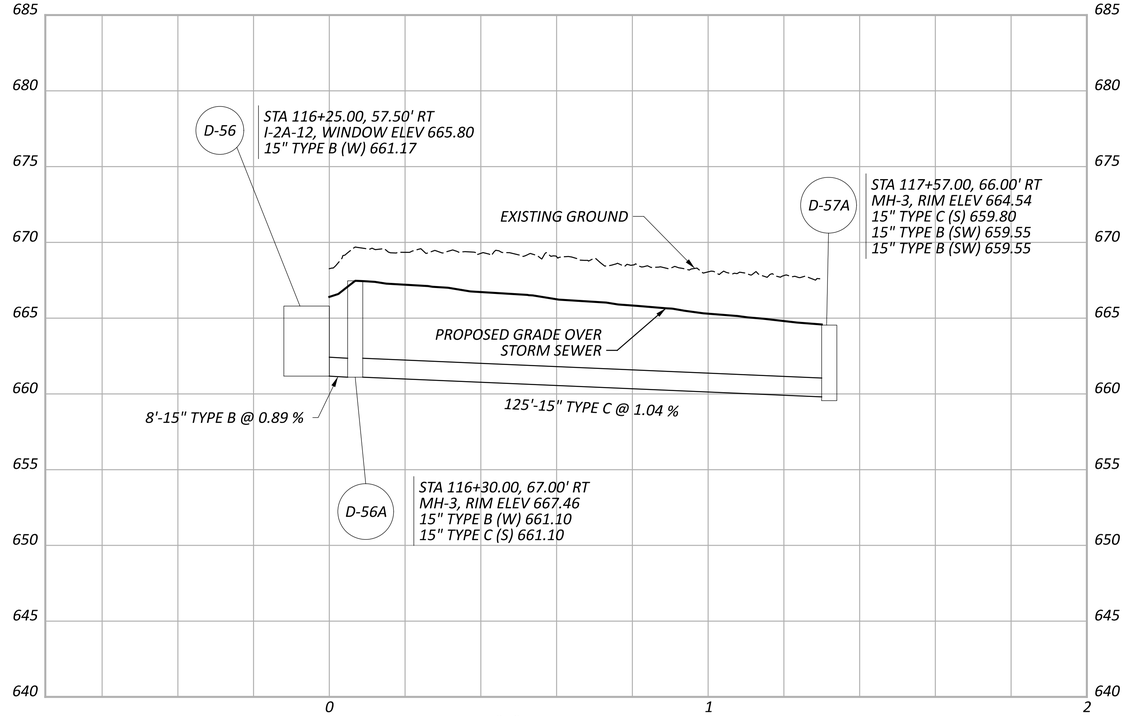



PROFILE "T"




PROFILE "U"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "S", "T", "U", "UU"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.750 | TOTAL P.1135

CUY-77-11.41 - PART 1

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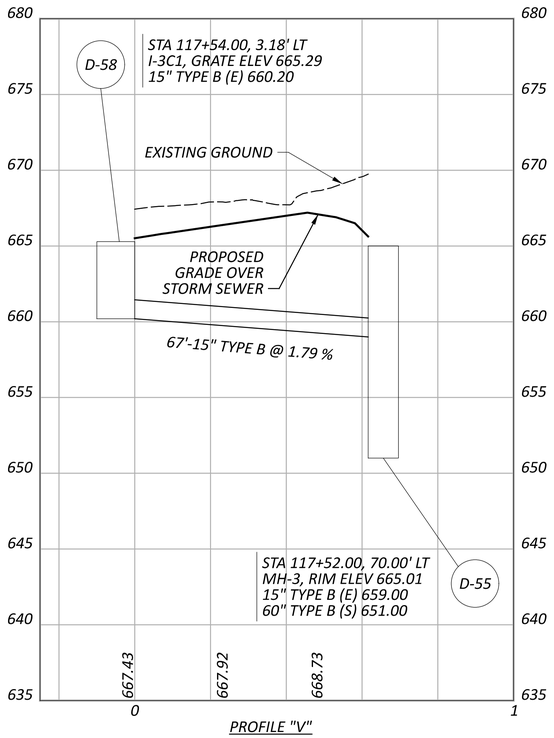
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF103.dgn

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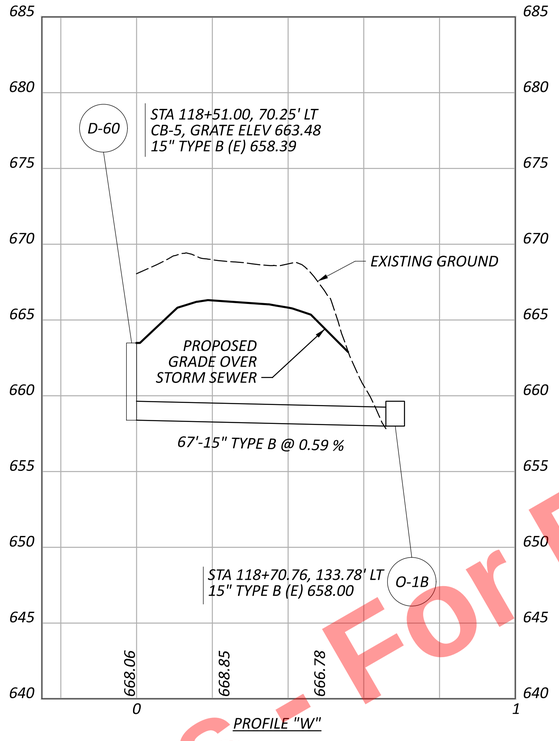


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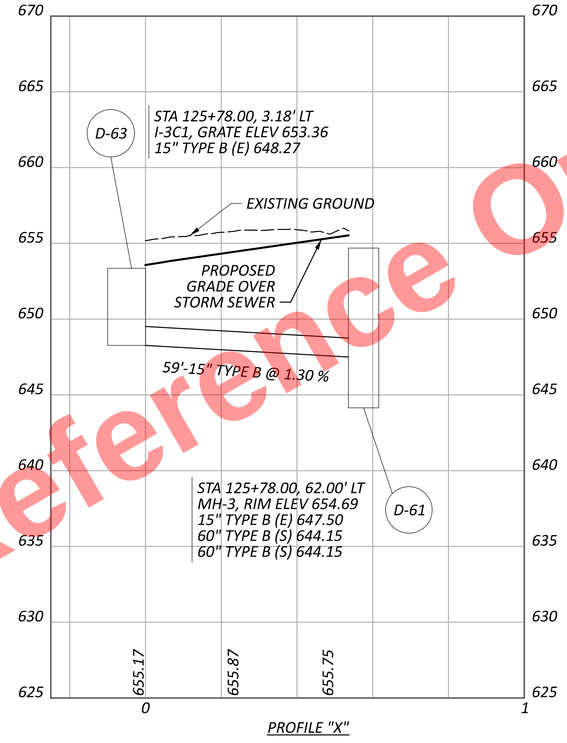


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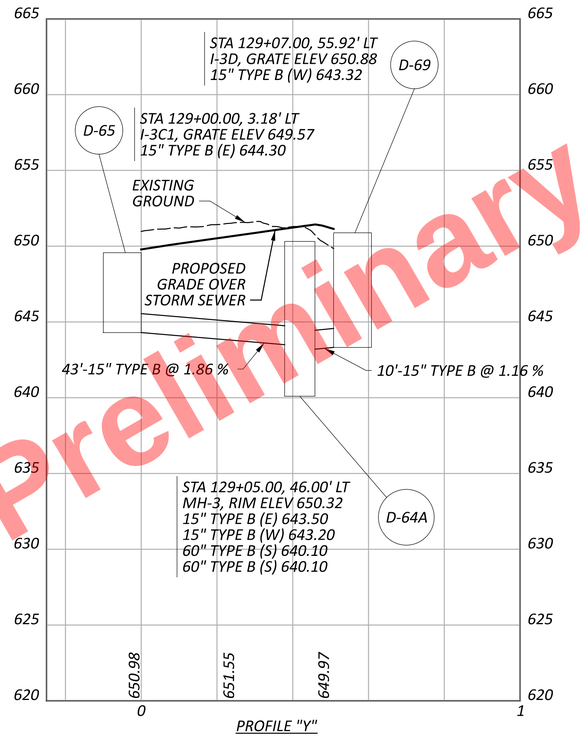
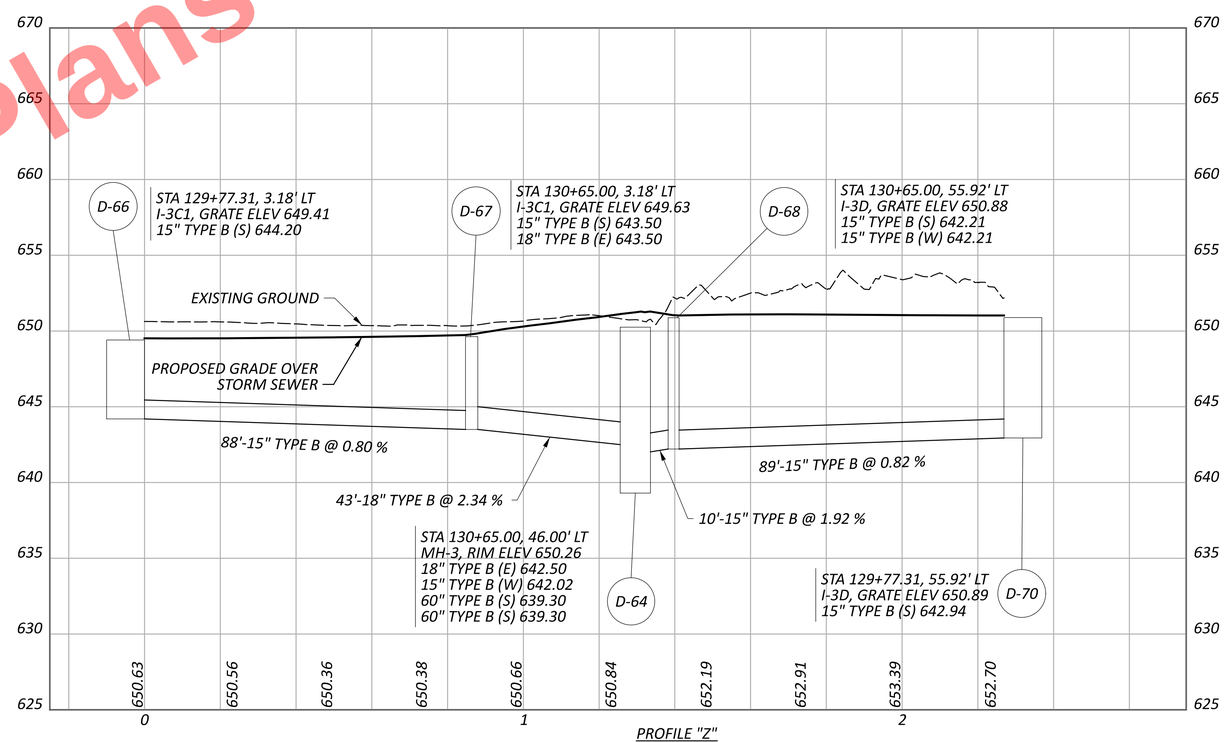



PROFILE "Y"




PROFILE "Z"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "V", "W", "X", "Y", "Z"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.751 TOTAL P.1135

CUY-77-11.41 - PART 1

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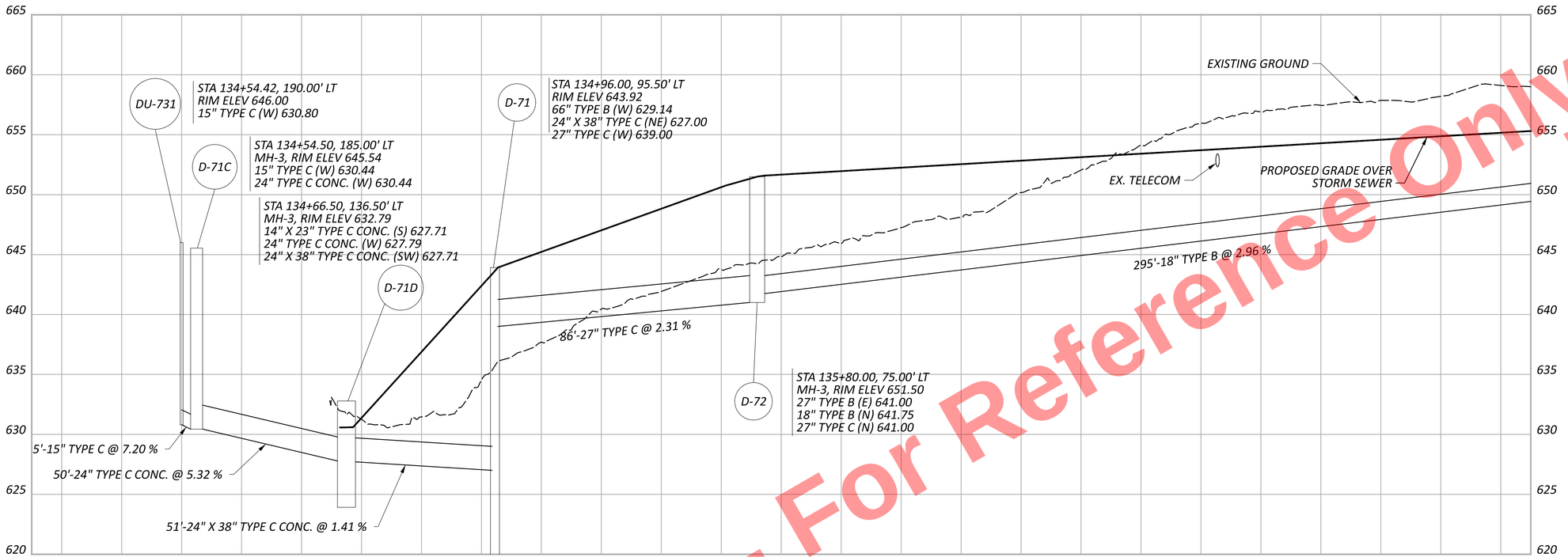
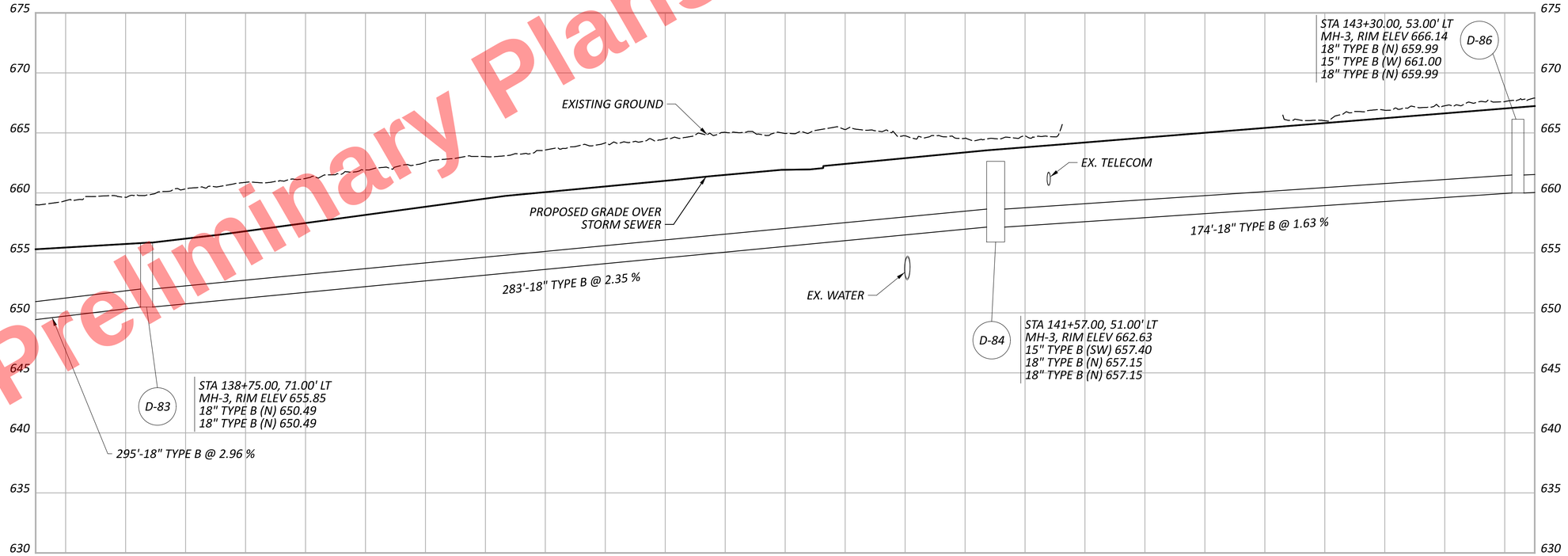



PROFILE "AB"




PROFILE "AB"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AB"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.752 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 1 - Profile AB - 2025 - Profile AB - 2025 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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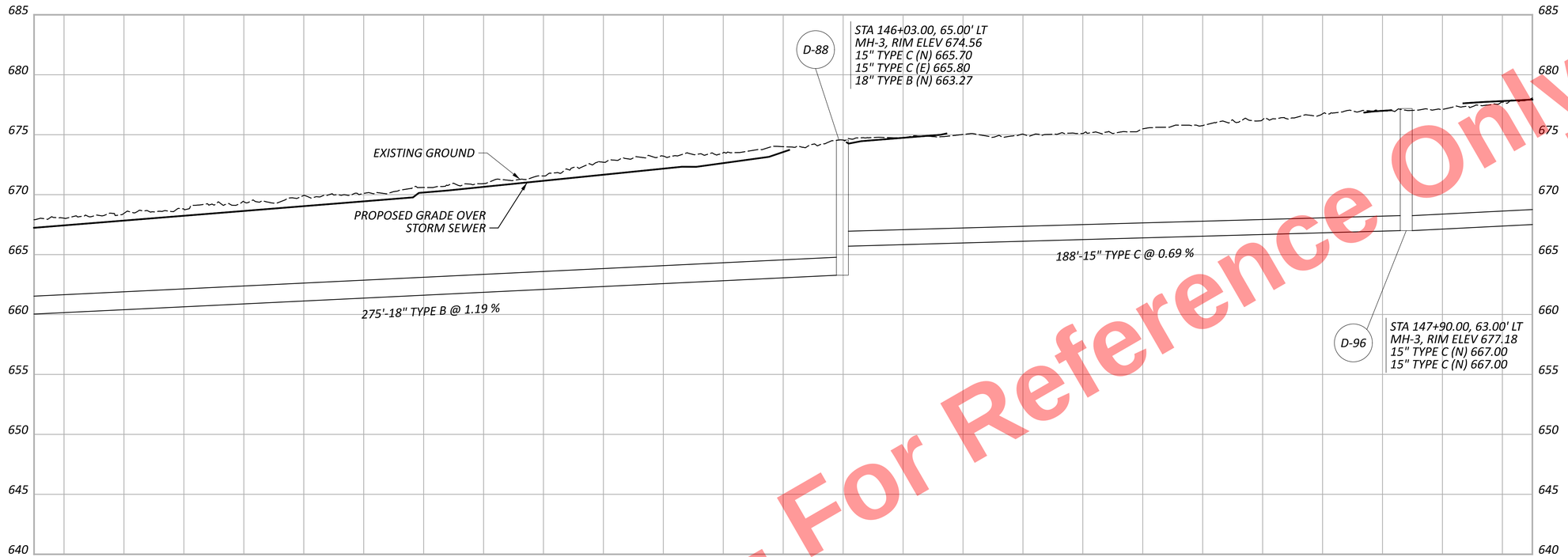
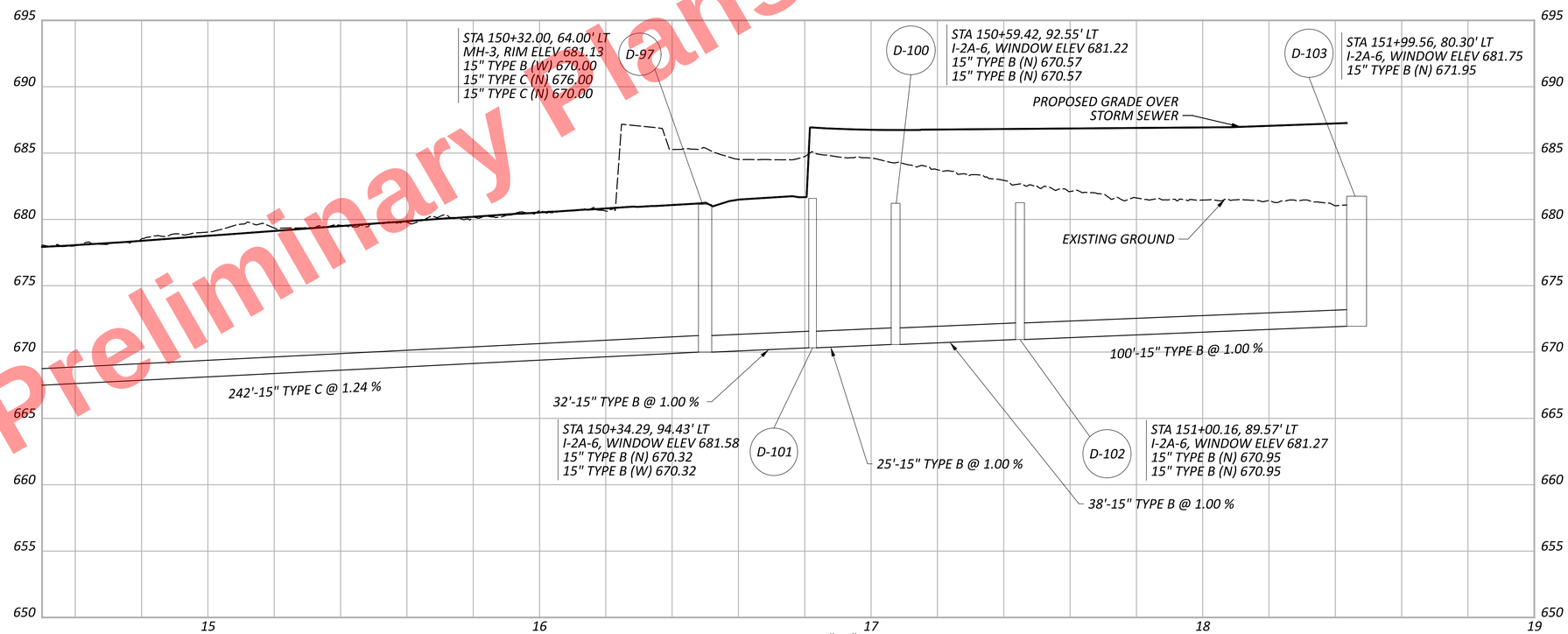
Preliminary Plans - For Reference Only




PROFILE "AB"




PROFILE "AB"

DRAINAGE PROFILES - I.R. 77
PROFILE "AB"

CUY-77-11.41 - PART 1

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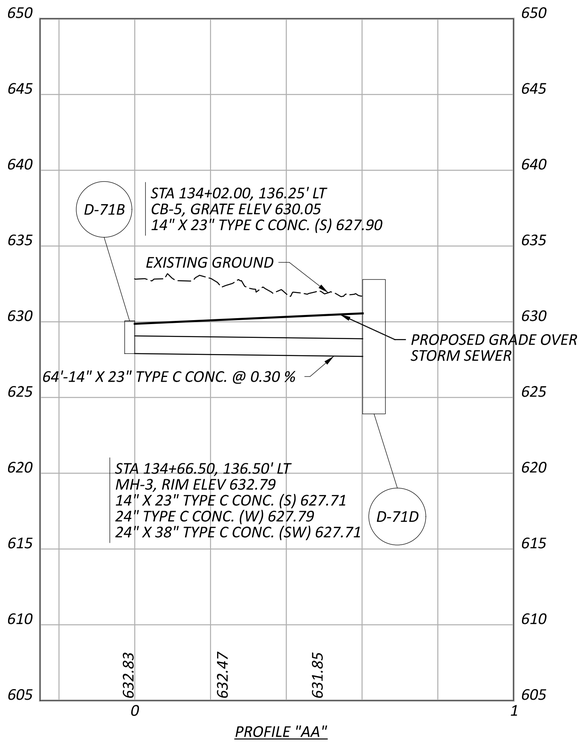
DESIGN AGENCY
AECOM

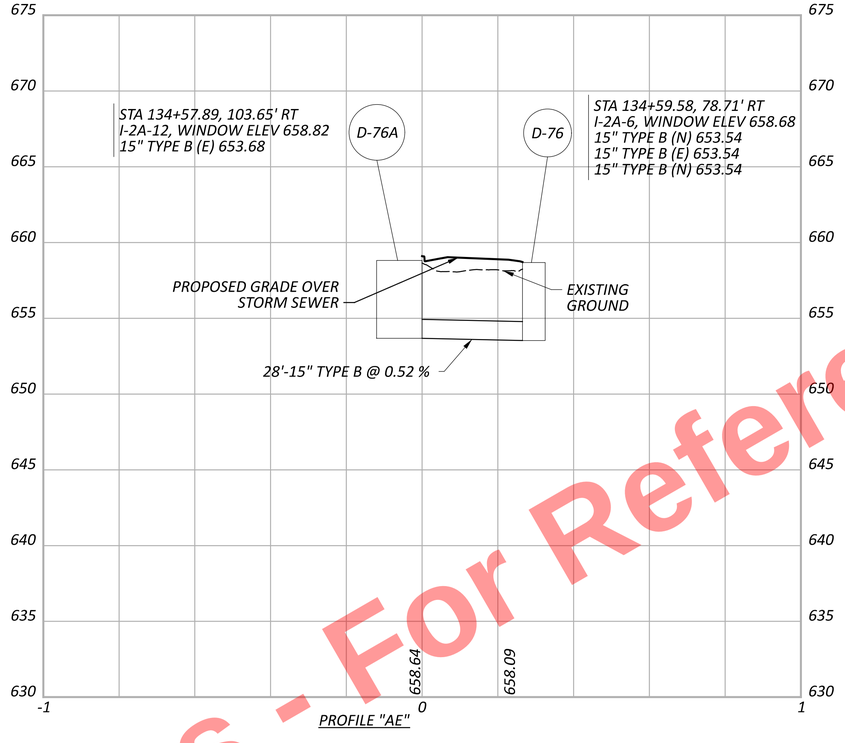
DESIGNER
SMS

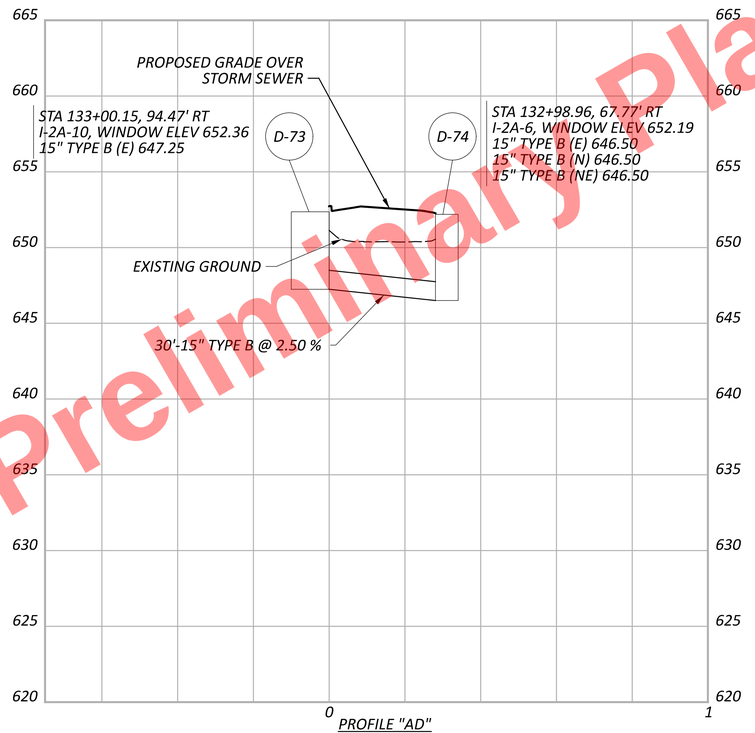
REVIEWER
AKM 11/17/25

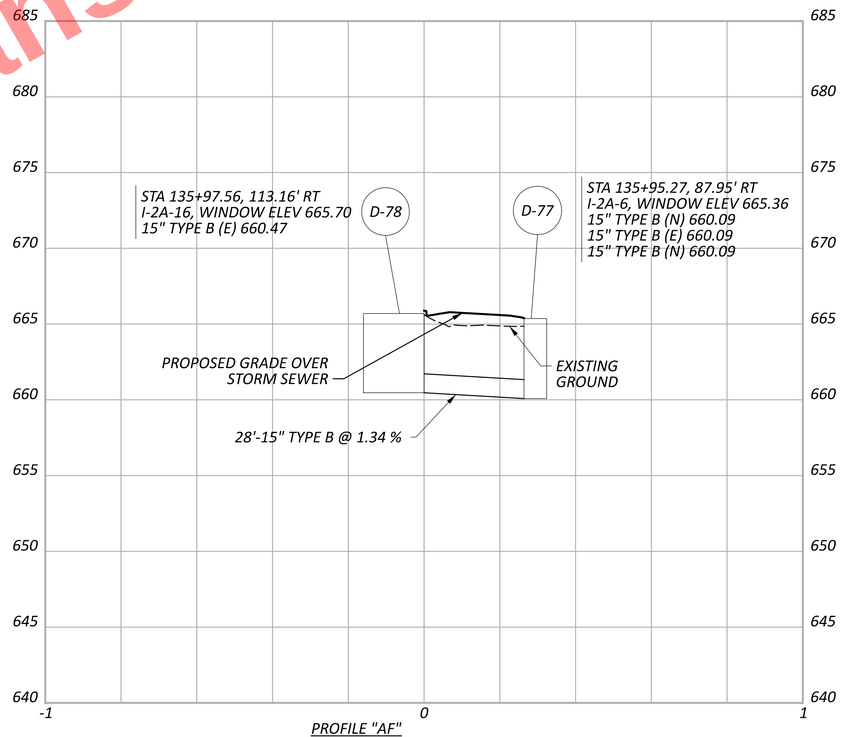
PROJECT ID
1025743

SHEET P.753 | TOTAL P.1135




Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AA", "AD", "AE", "AF"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.754 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 3 - Sewer Profile AA - Profile Run AA-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:12 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF104.dgn

MODEL: Sheet 4 - Profile AC - 2025 - Profile AC - 2025 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCeV02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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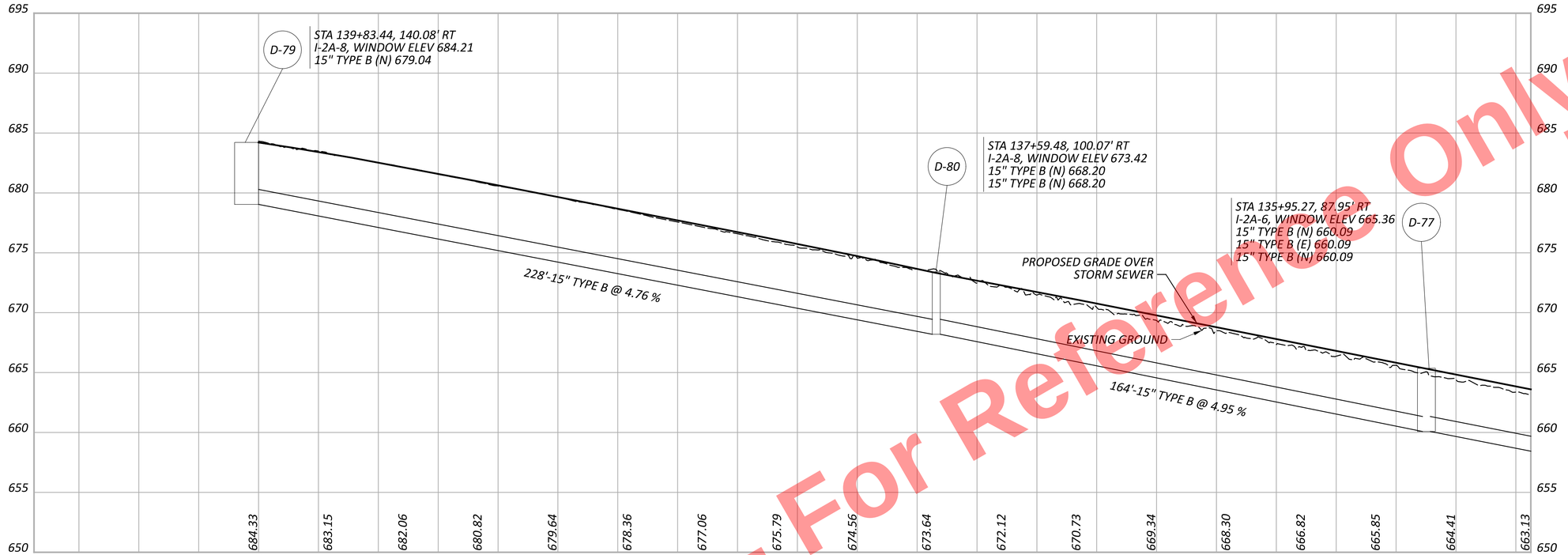
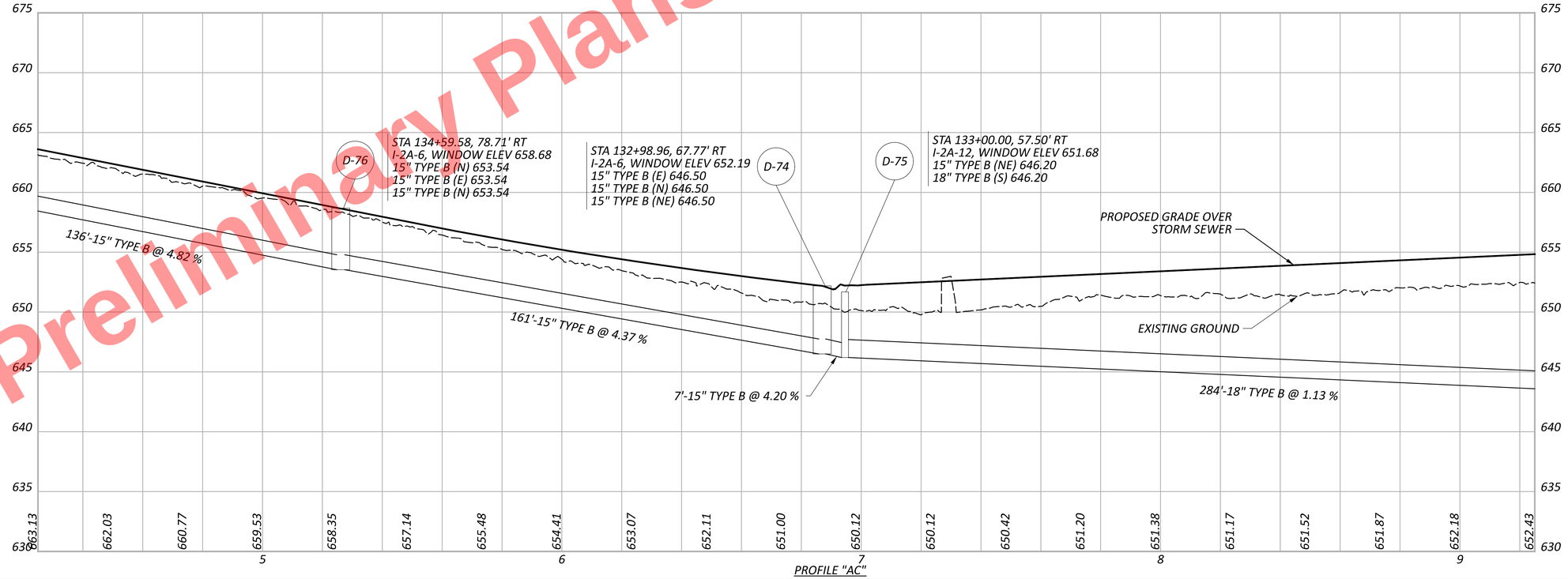



PROFILE "AC"




PROFILE "AC"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AC"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.755 | TOTAL P.1135

MODEL: Sheet 5 - Profile AC - 2025 - Profile AC - 2027 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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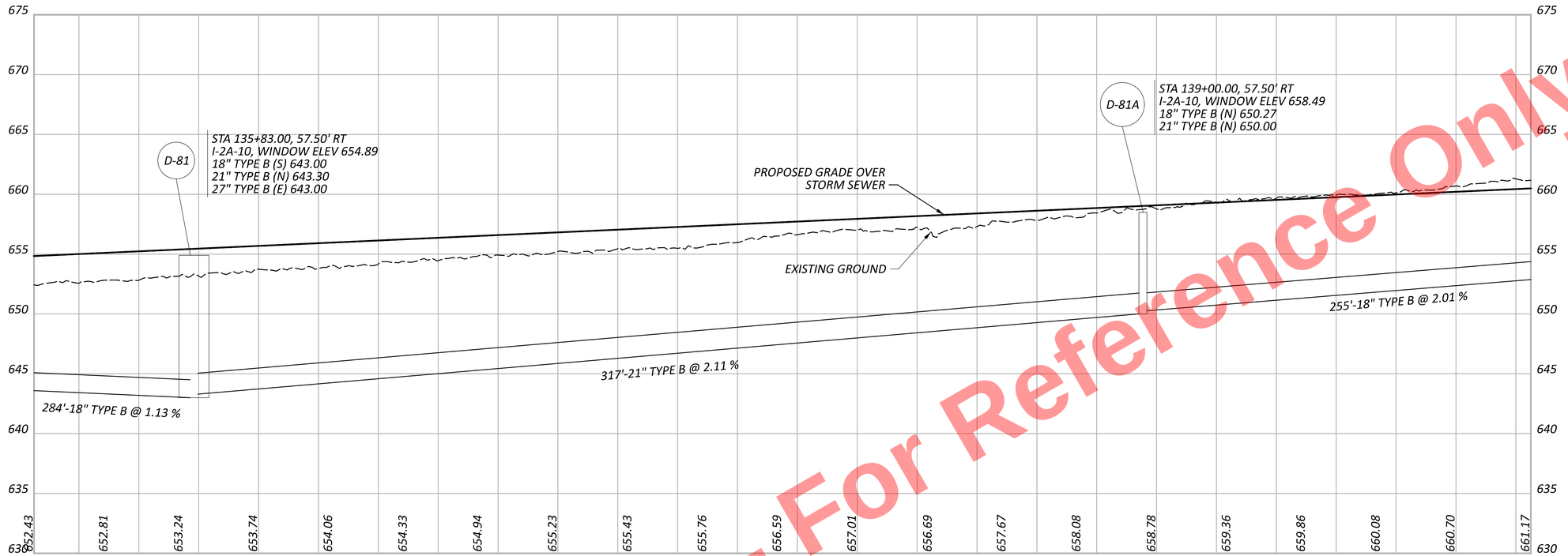
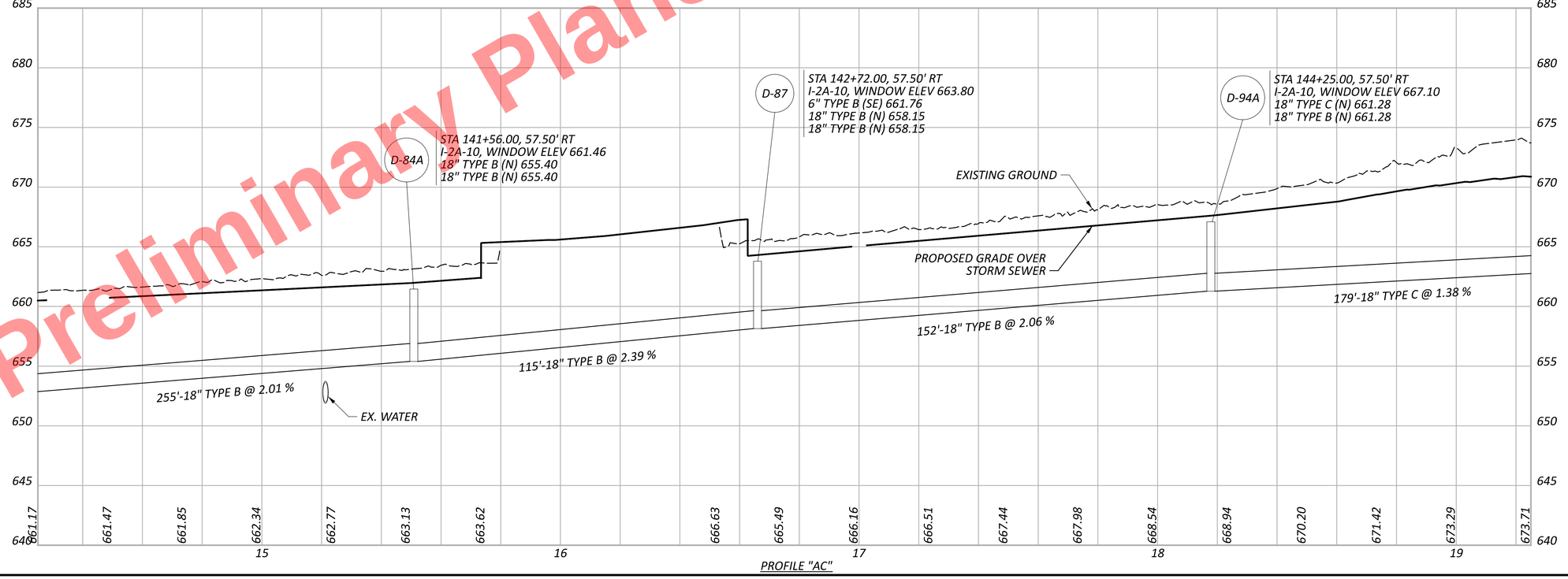



PROFILE "AC"




PROFILE "AC"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AC"

DESIGN AGENCY
AECOM

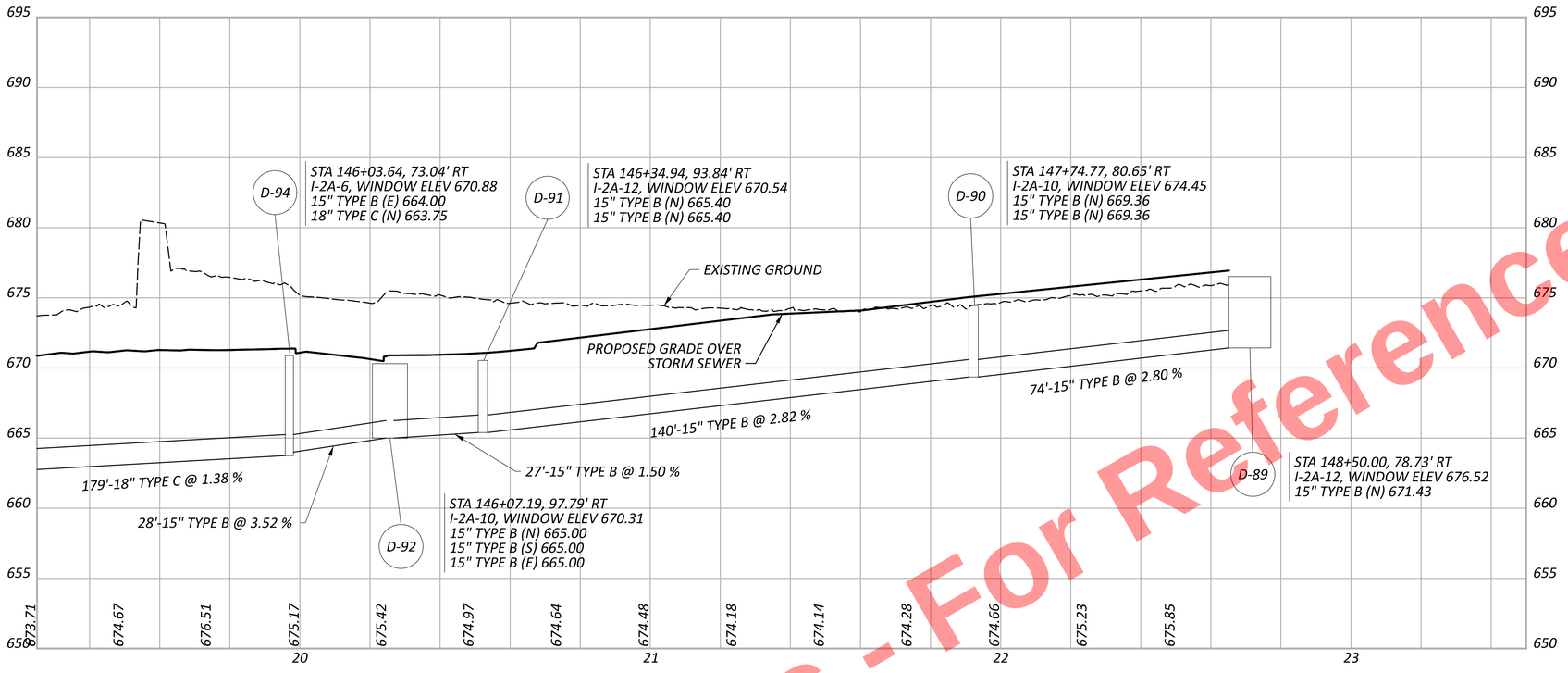
DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.756 | TOTAL P.1135

Preliminary Plans - For Reference Only

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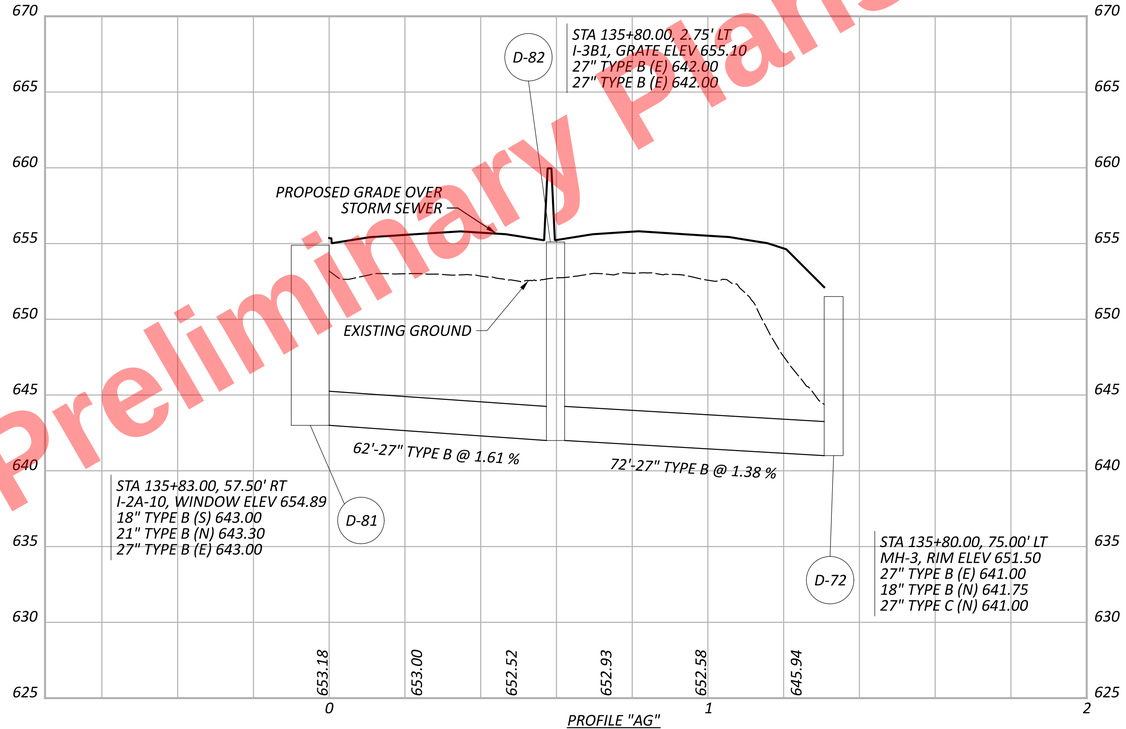


PROFILE "AG"

DRAINAGE PROFILES - I.R. 77
PROFILES "AC", "AG"

CUY-77-11.41 - PART 1

MODEL: Sheet 6 - Profile AC - 2025 - Profile AC - 2029 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCeV02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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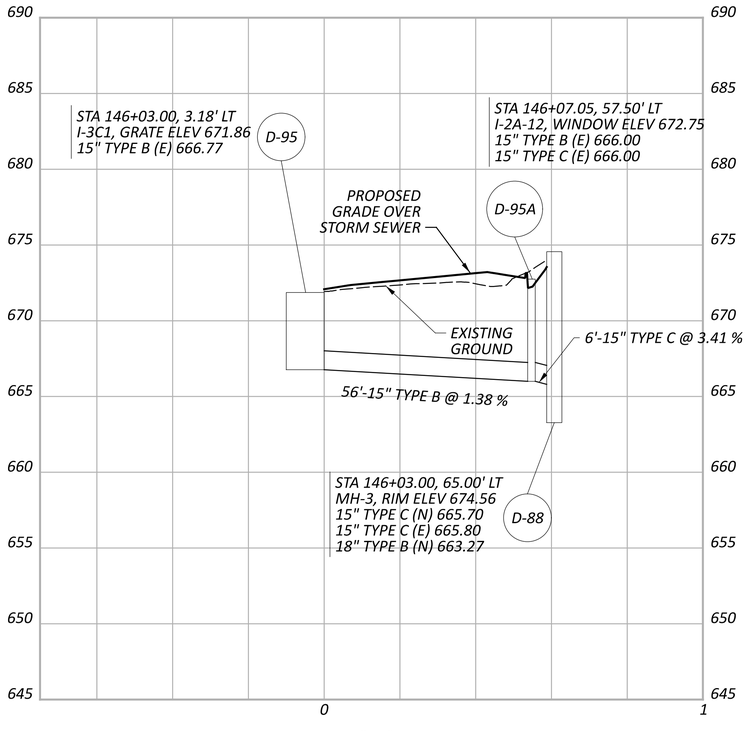
DESIGN AGENCY
AECOM

DESIGNER
SMS

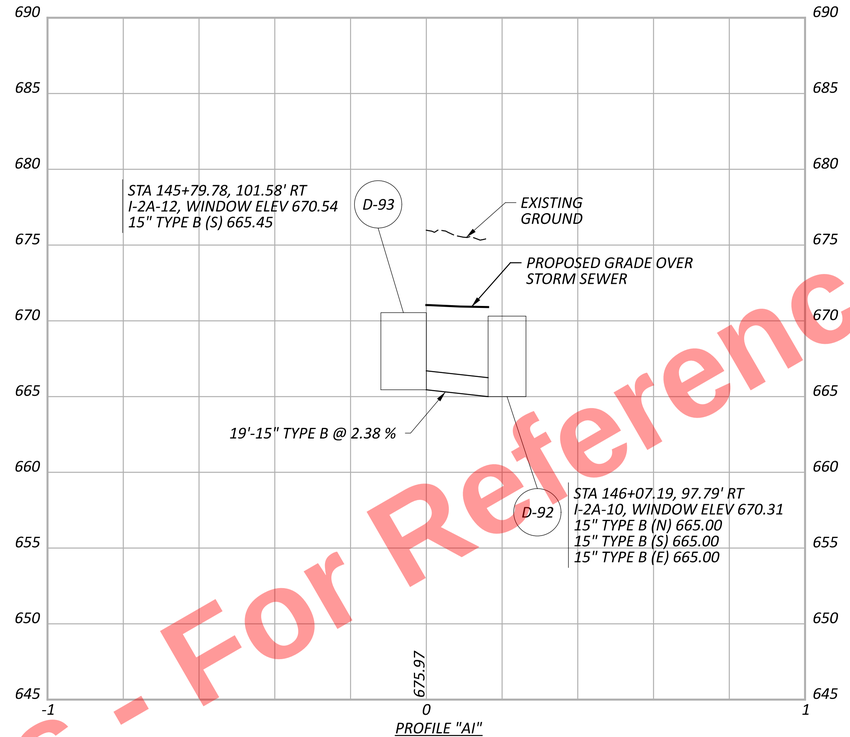
REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.757 | TOTAL P.1135




PROFILE "AH"

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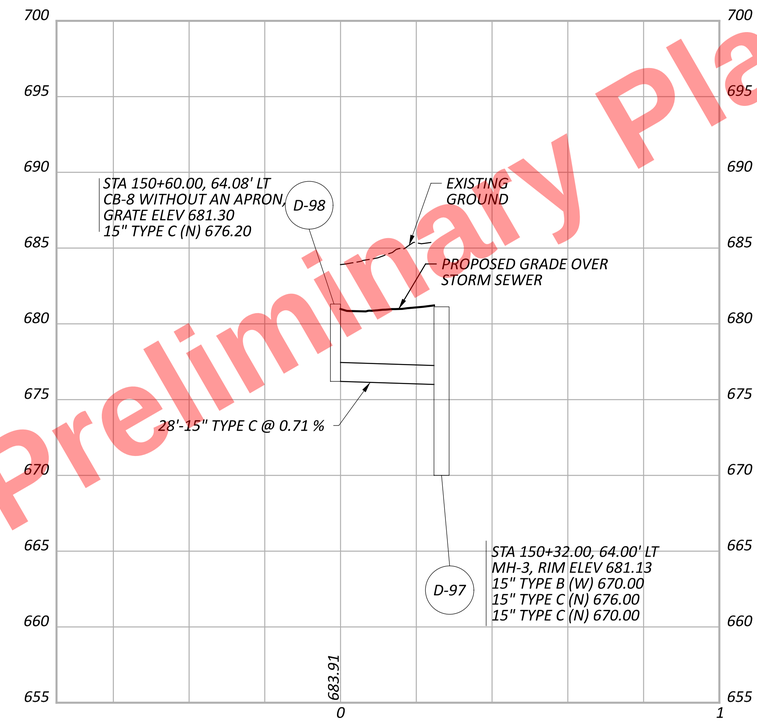



PROFILE "AJ"

Preliminary Plans - For Reference Only

# DRAINAGE PROFILES - I.R. 77
# PROFILES "AH", "AI", "AJ"

CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF105.dgn

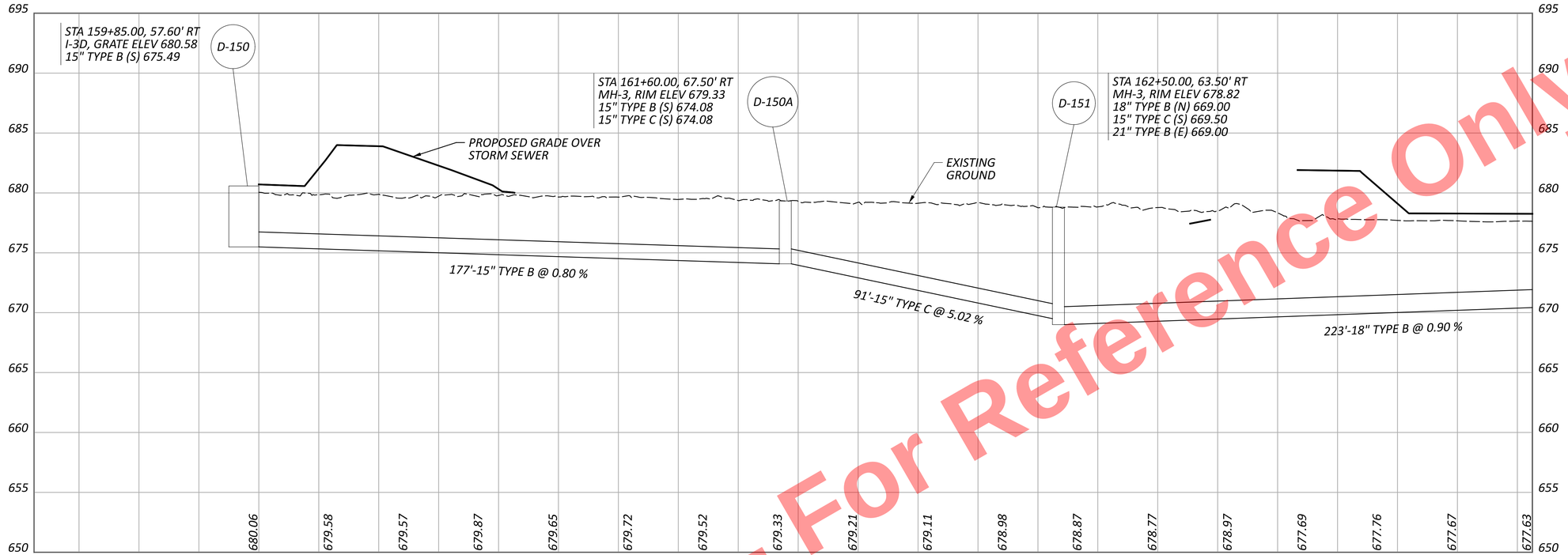
DESIGN AGENCY
AECOM

DESIGNER
SMS

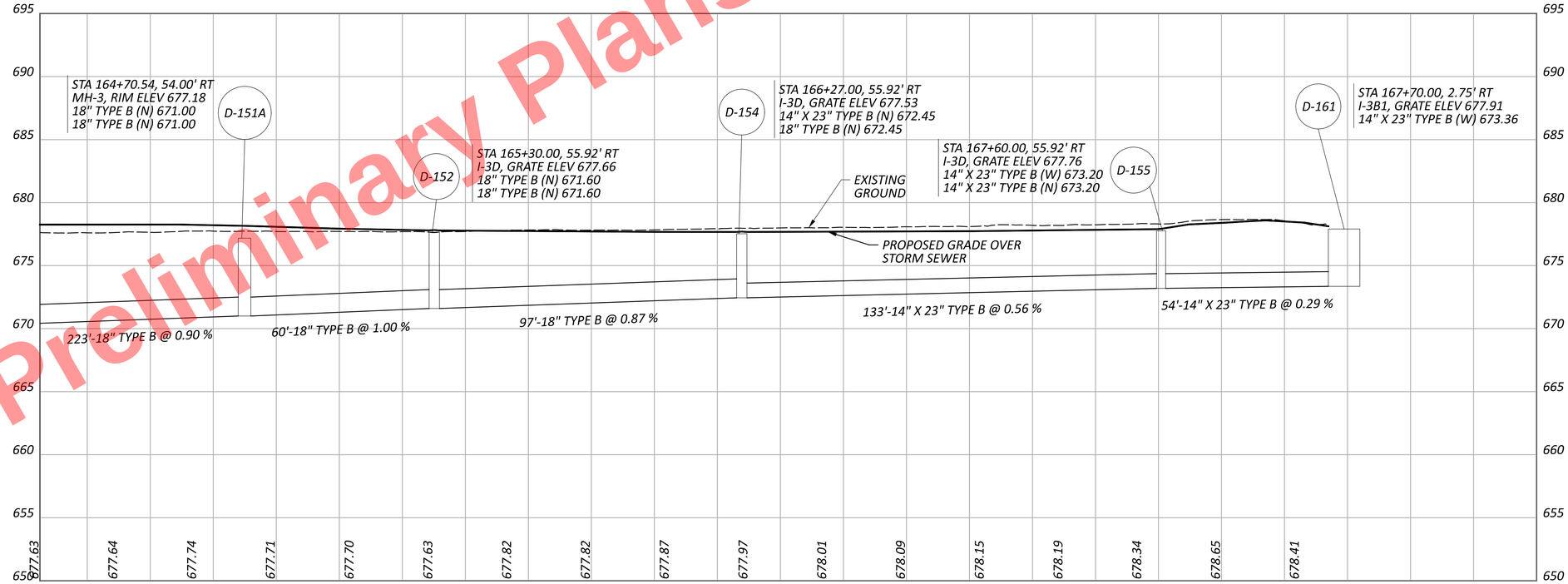
REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.758 | TOTAL P.1135




PROFILE "AL"




PROFILE "AL"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AL"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.759 | TOTAL P.1135

CUY-77-11.41 - PART 1

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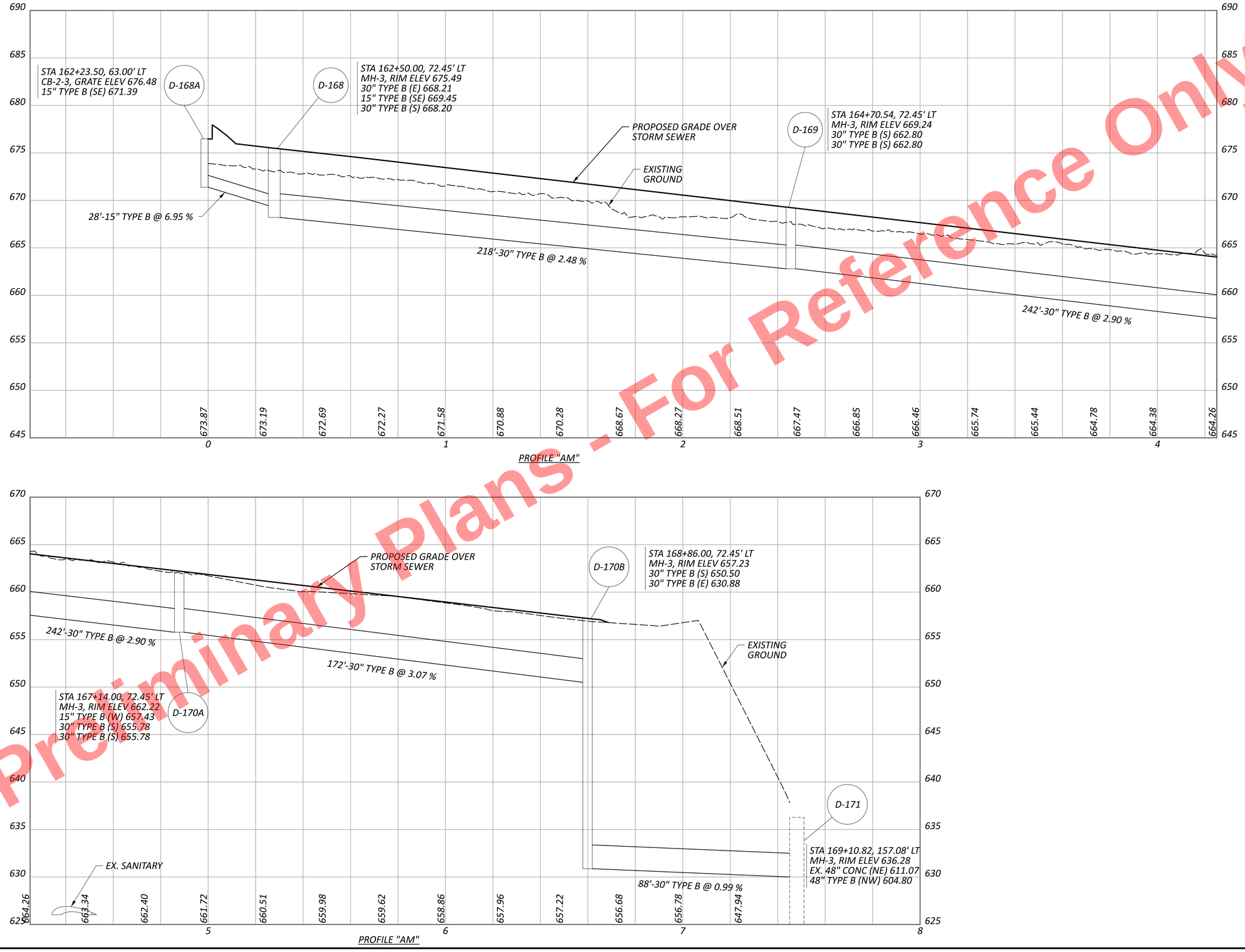


Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AM"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.760 TOTAL P.1135

CUY-77-11.41 - PART 1

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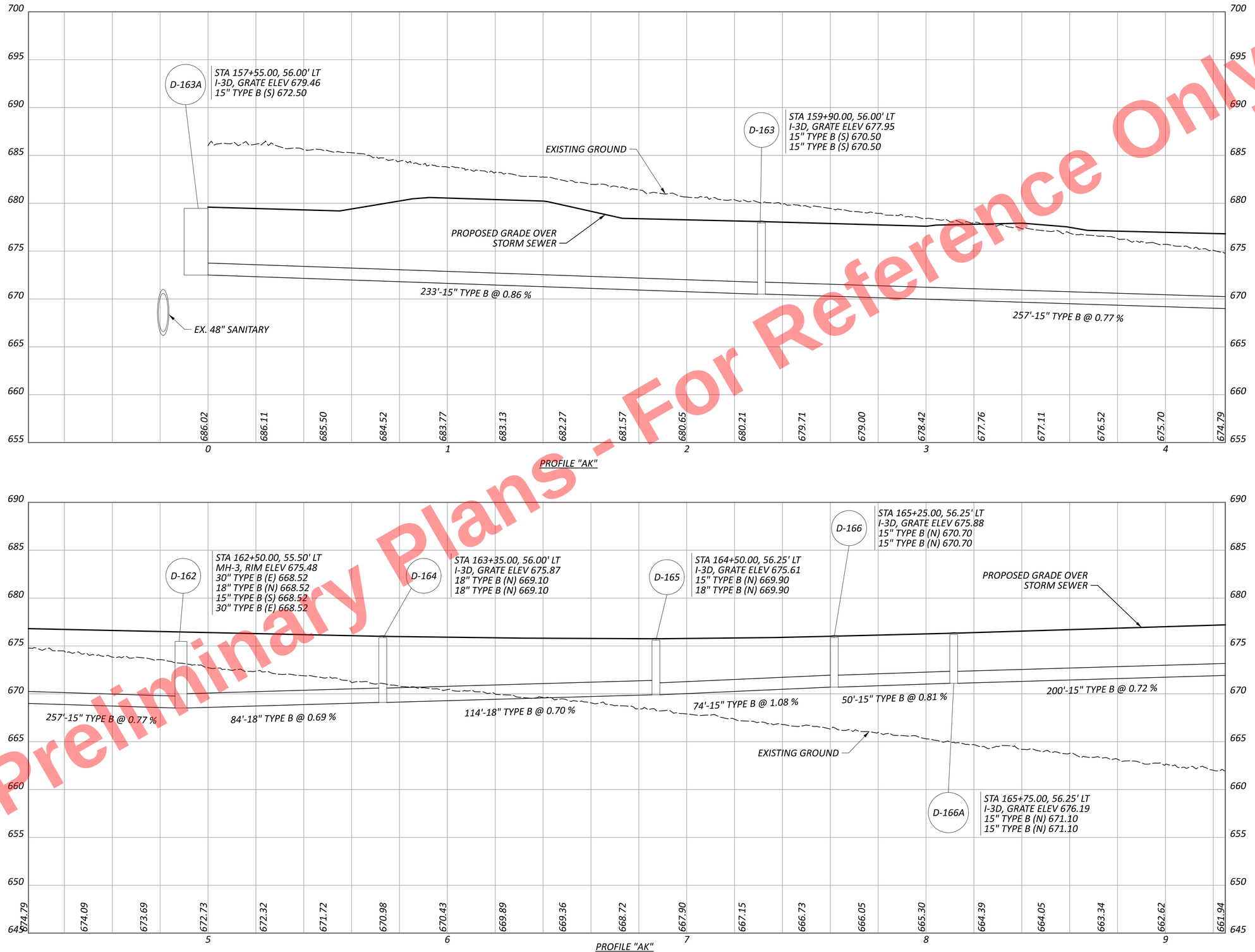
Preliminary Plans - For Reference Only




CUY-77-11.41 - PART 1

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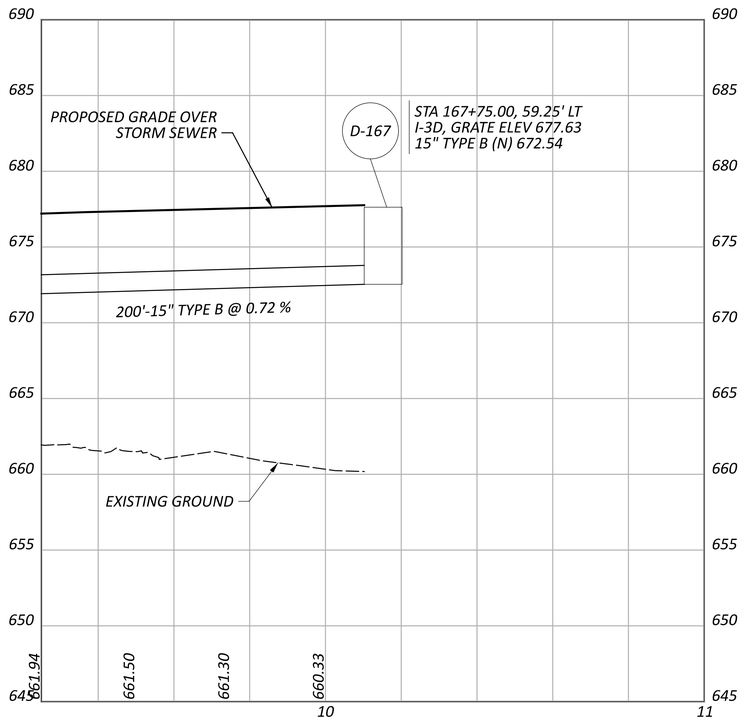
# DRAINAGE PROFILES - I.R. 77
## PROFILE "AK"

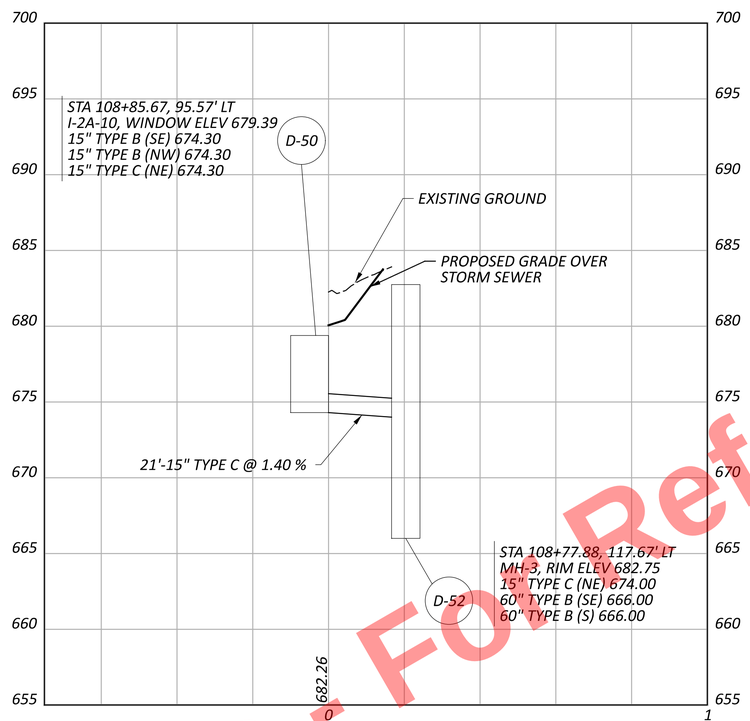
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.761 TOTAL P.1135

Preliminary Plans - For Reference Only




PROFILE "AK"

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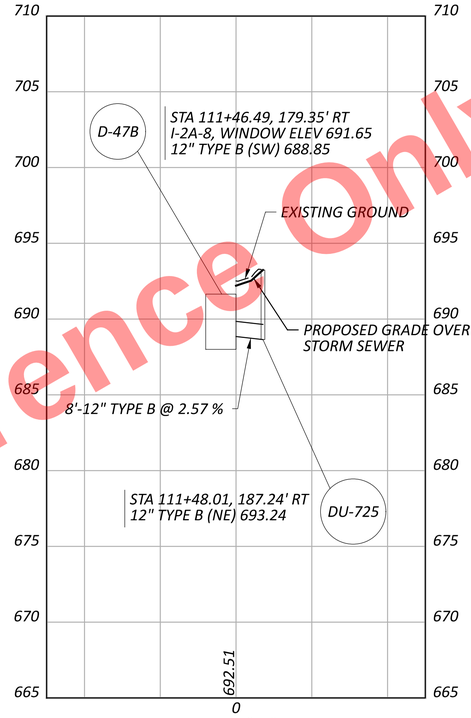


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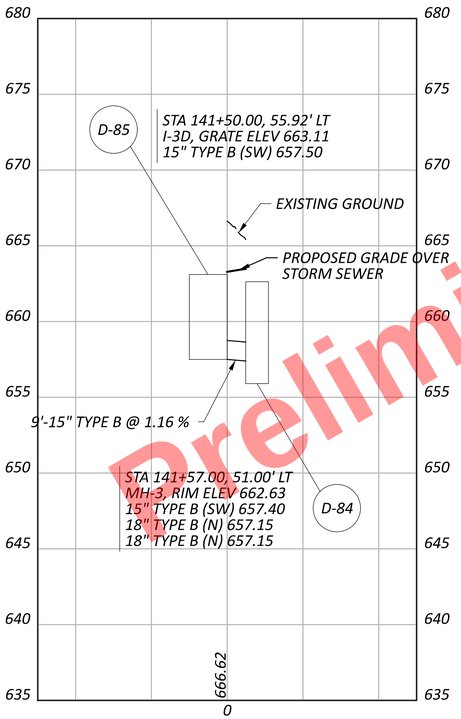
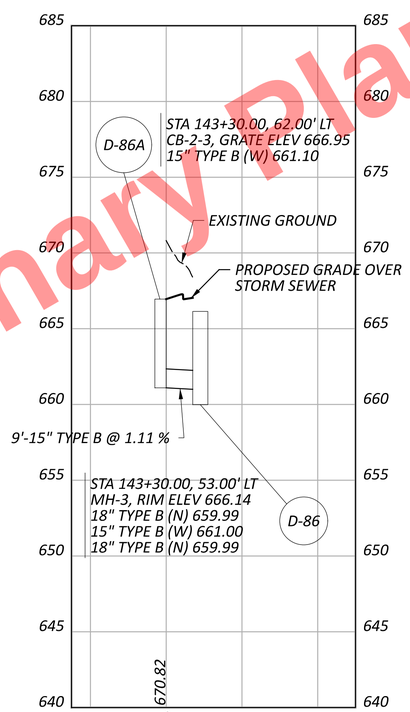
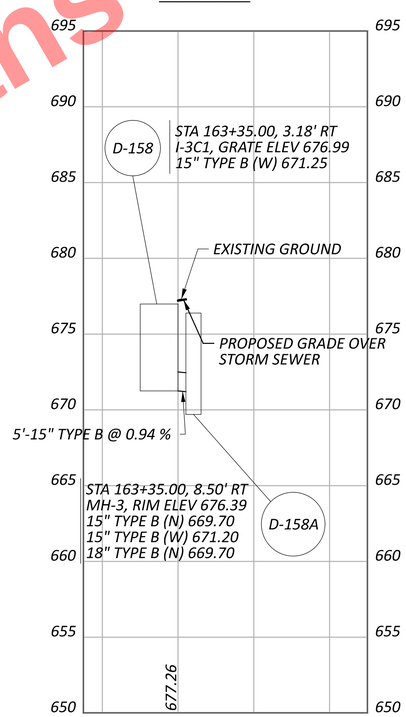



PROFILE "BG"




PROFILE "BL"




PROFILE "BN"

# DRAINAGE PROFILES - I.R. 77
# PROFILES "AK", "BE", "BF", "BG", "BL", "BN"

CUY-77-11.41 - PART 1

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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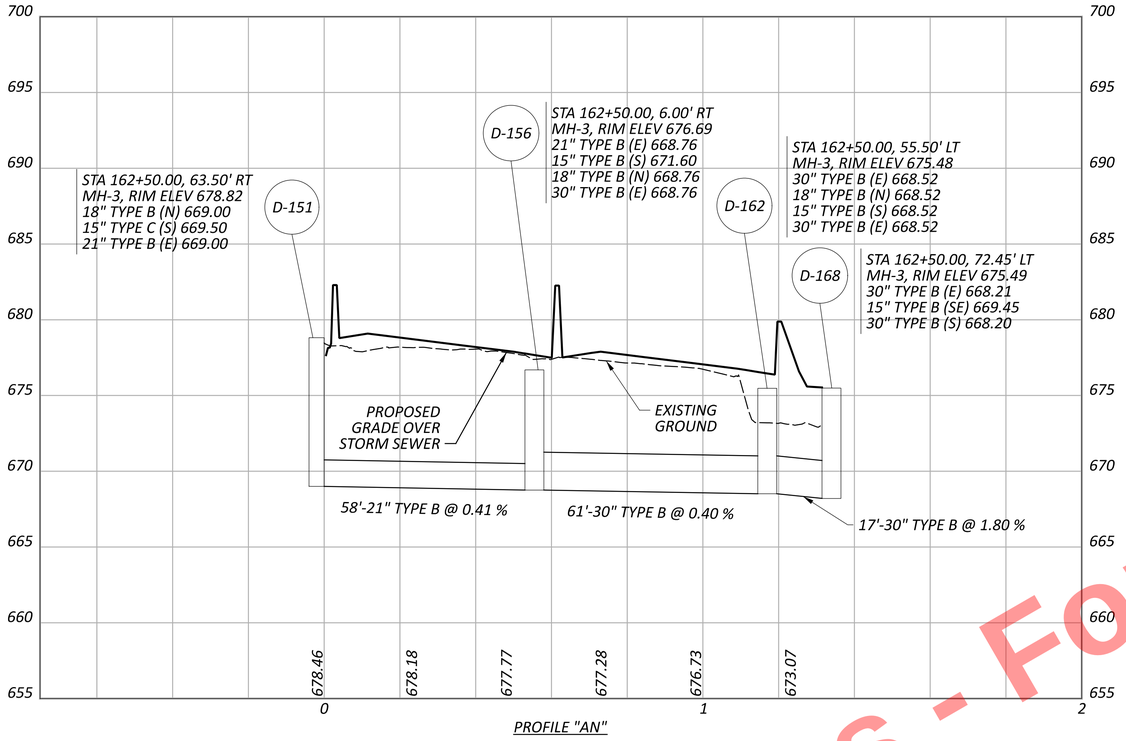
DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.762 |
| TOTAL | P.1135 |

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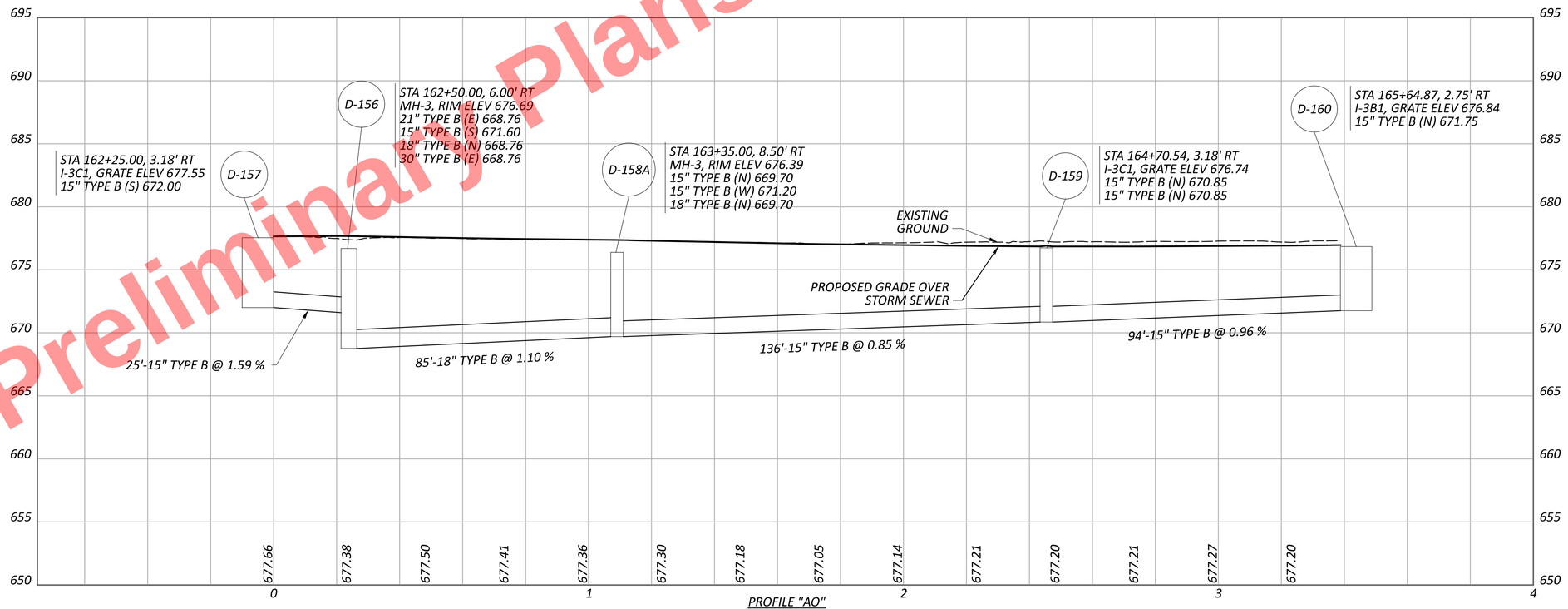


PROFILE "AO"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AN", "AO"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.763 TOTAL P.1135

CUY-77-11.41 - PART 1

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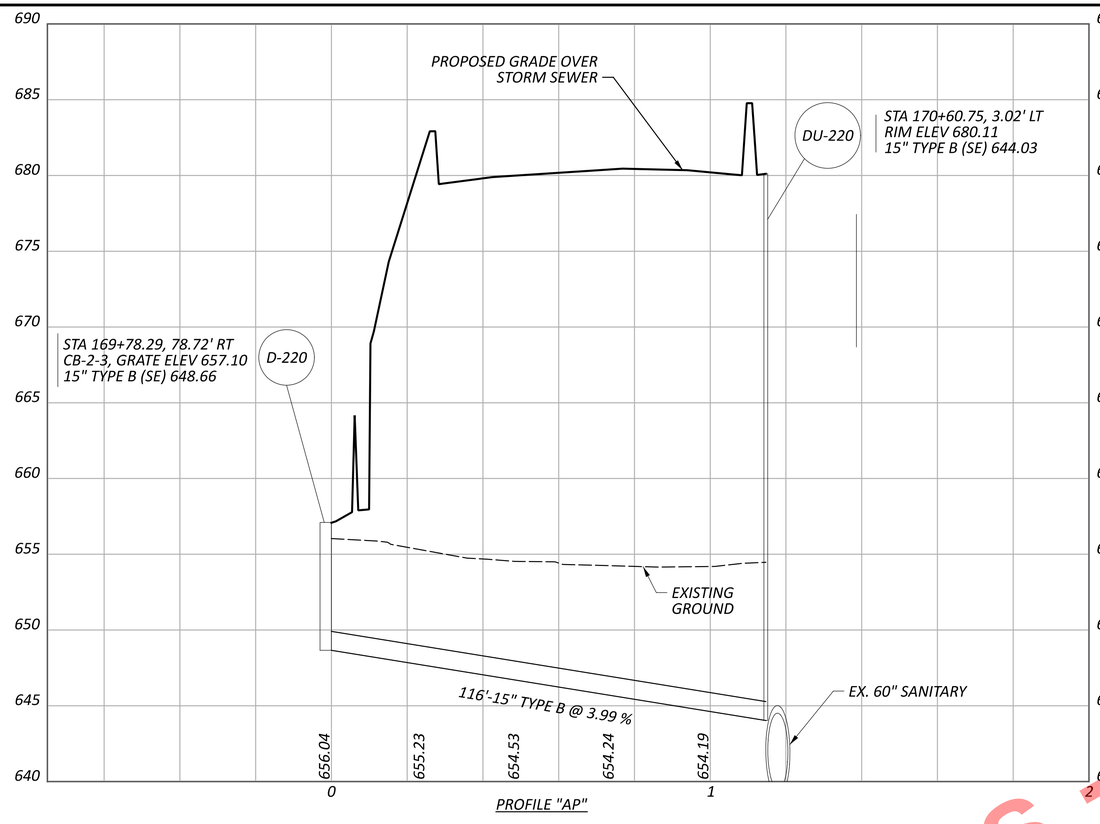


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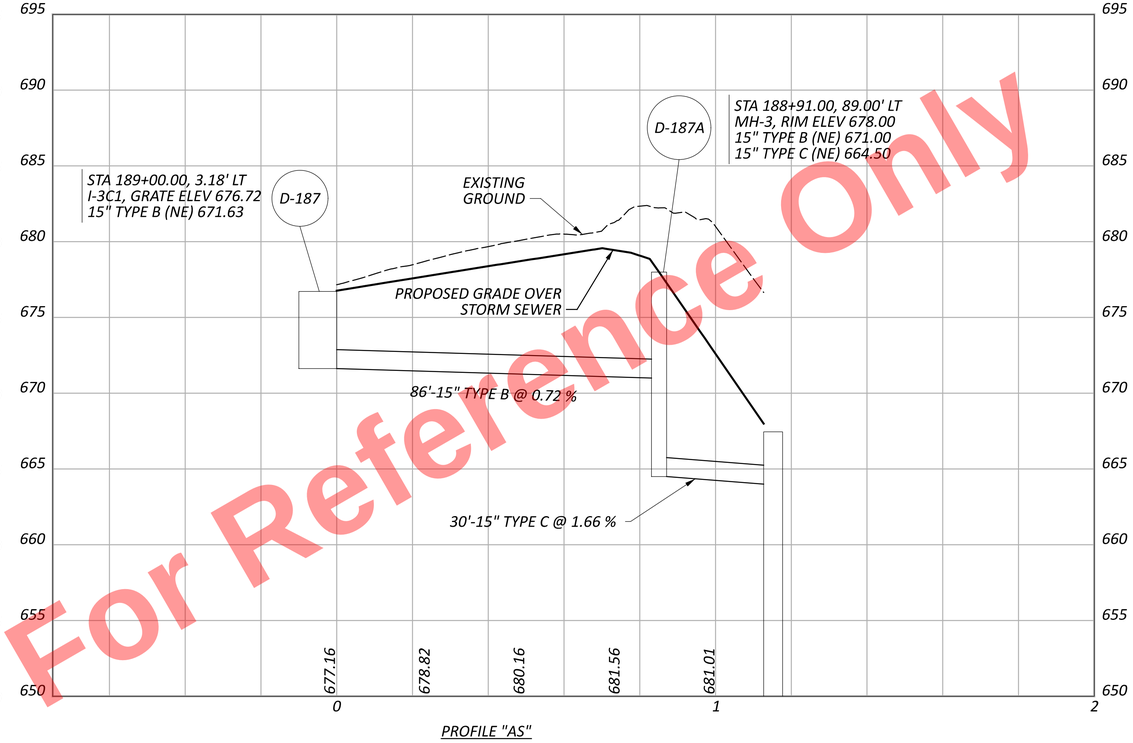


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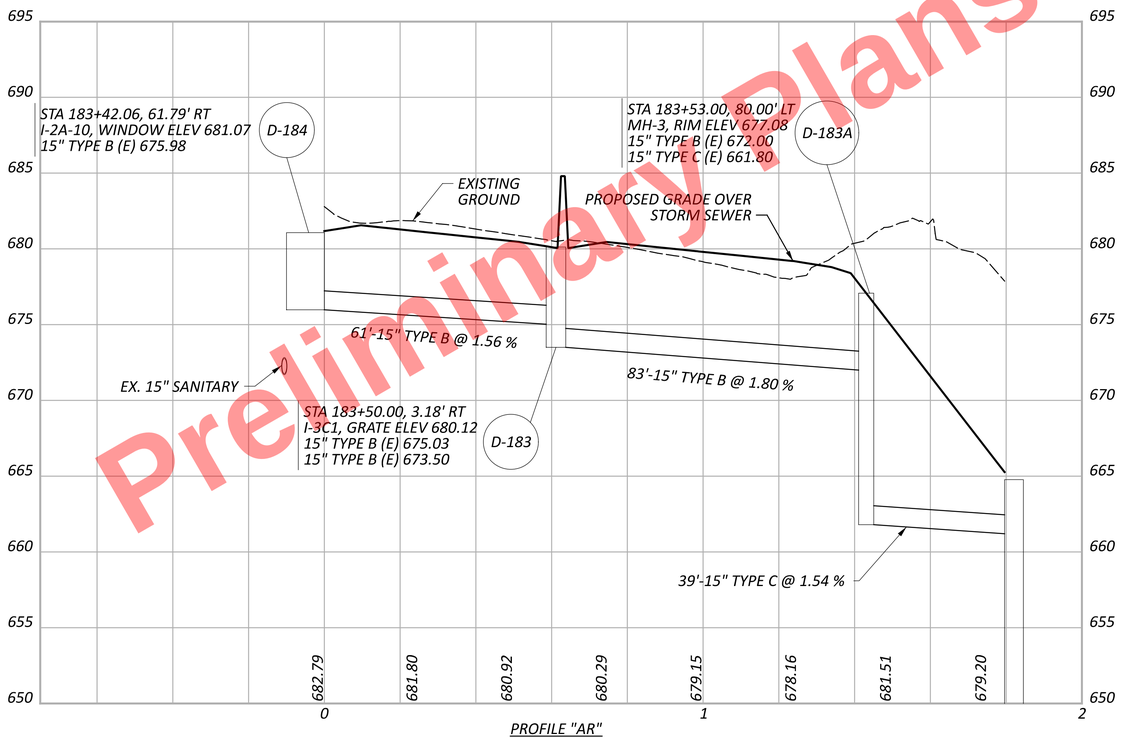


PROFILE "AR"

Preliminary Plans - For Reference Only

# DRAINAGE PROFILES - I.R. 77
# PROFILES "AP", "AR", "AS"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.764 | TOTAL P.1135

CUY-77-11.41 - PART 1

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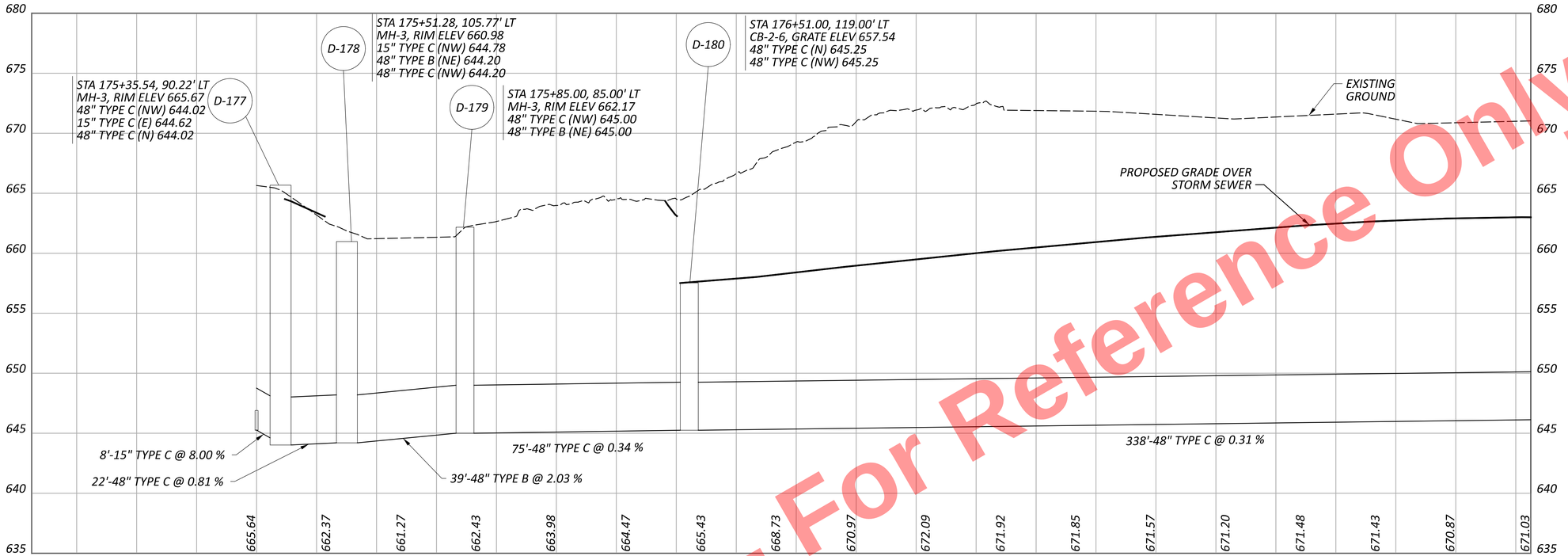
Preliminary Plans - For Reference Only

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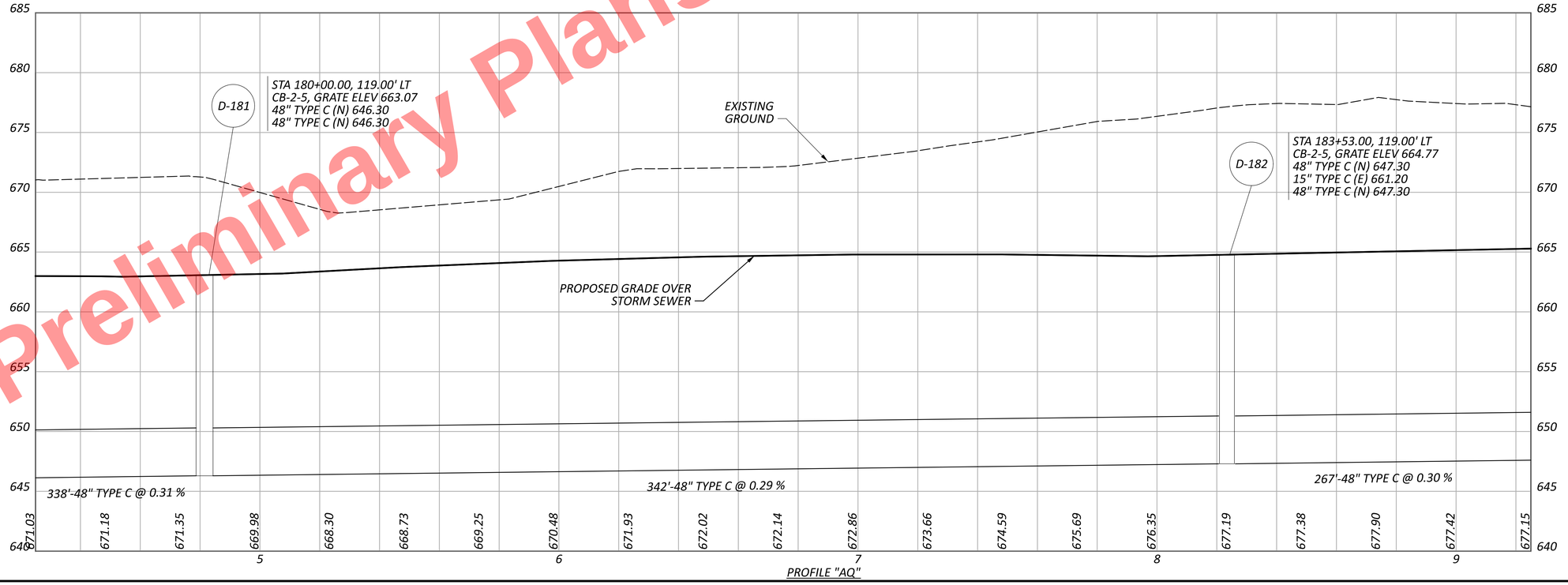


PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

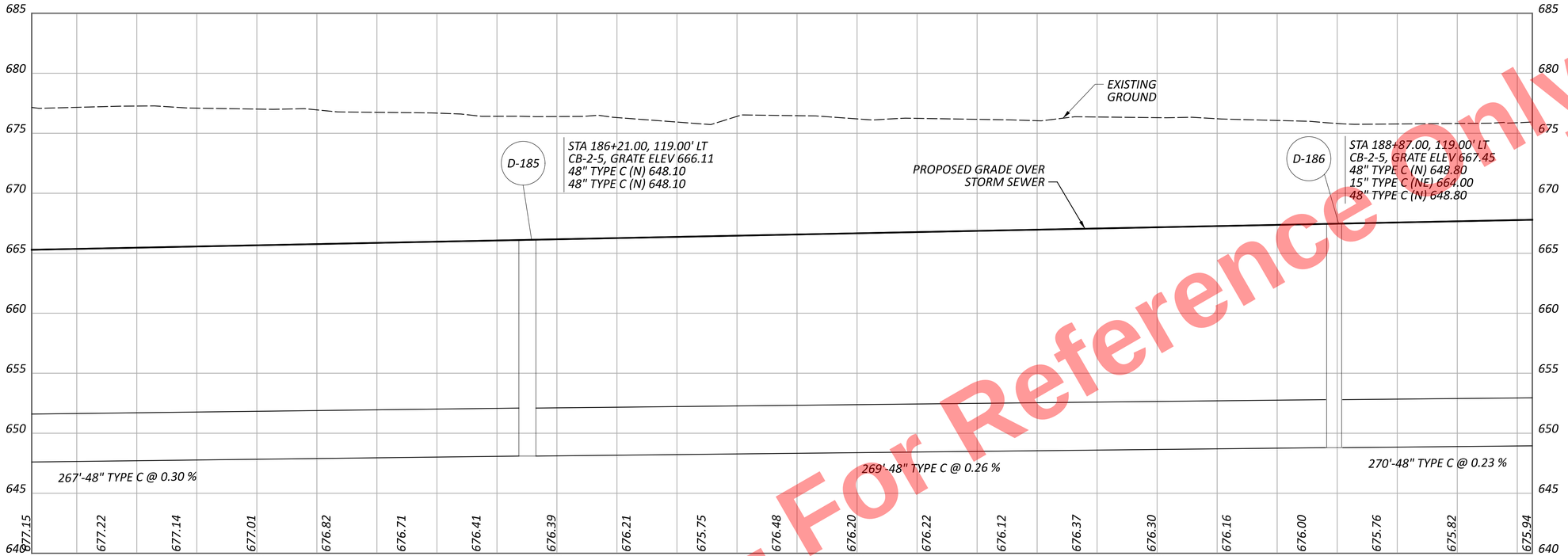
DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.765 | TOTAL P.1135

Preliminary Plans - For Reference Only

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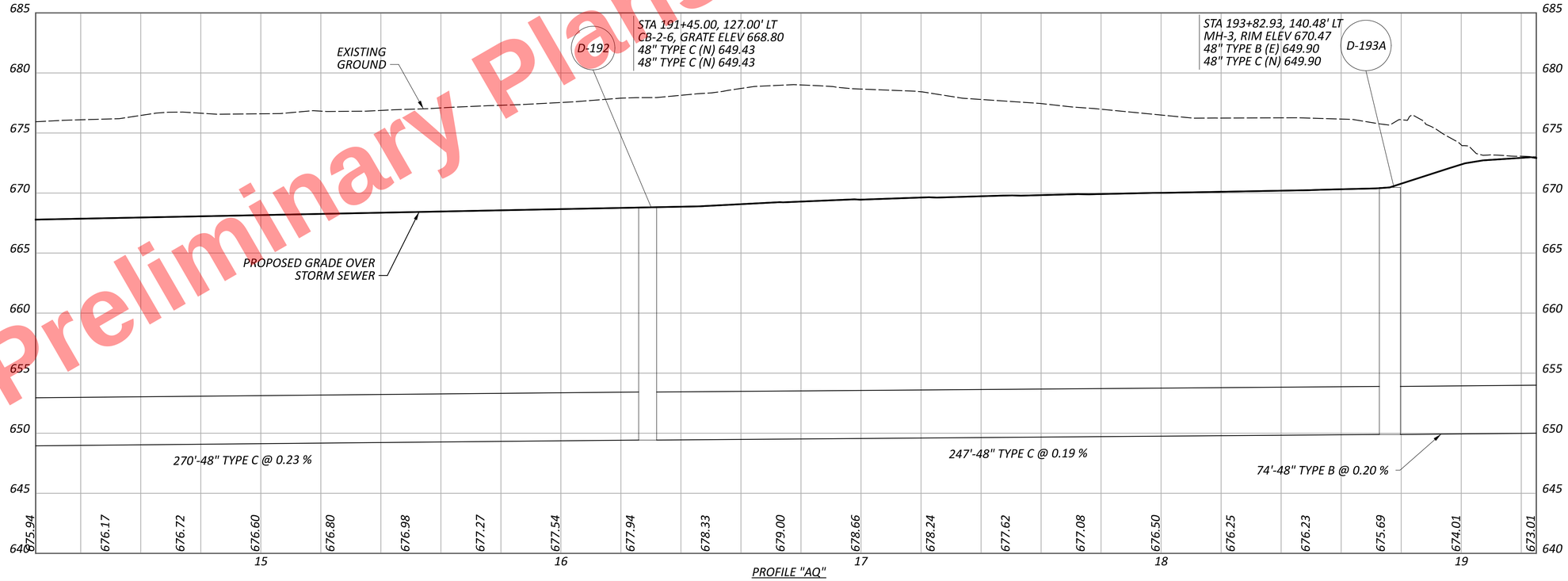


PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.766 | TOTAL P.1135

MODEL: Sheet 5 - Profile AQ - 2025 - Profile AQ - 2029 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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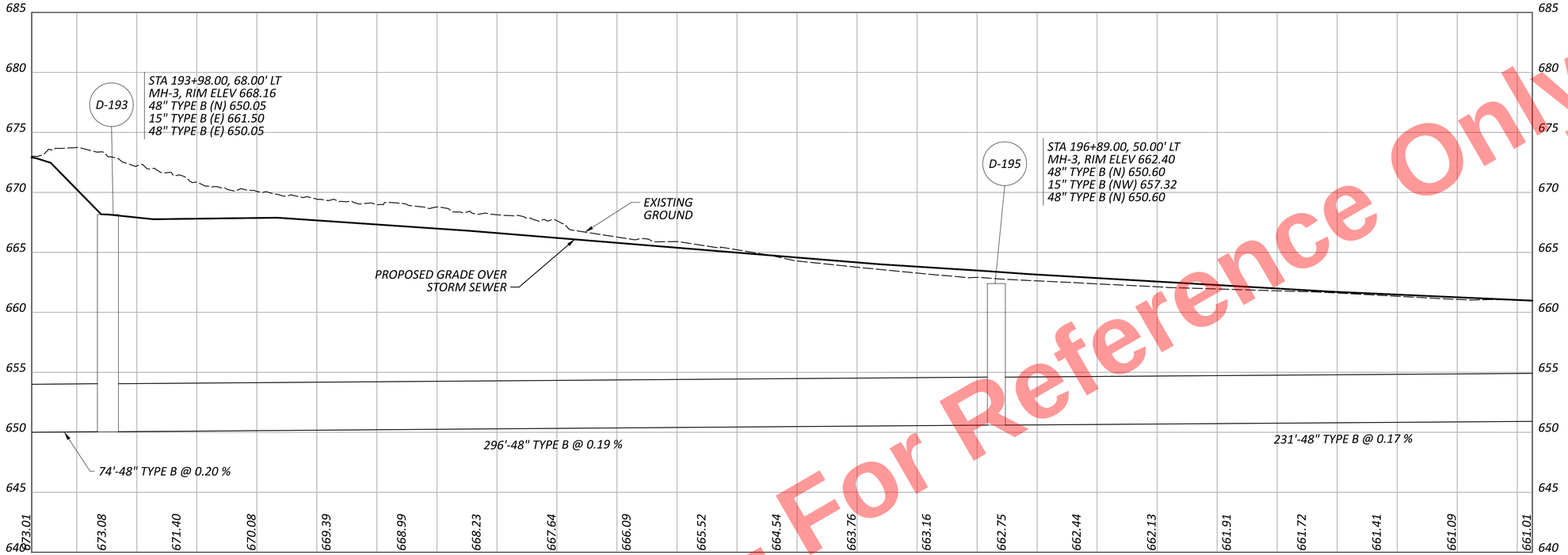


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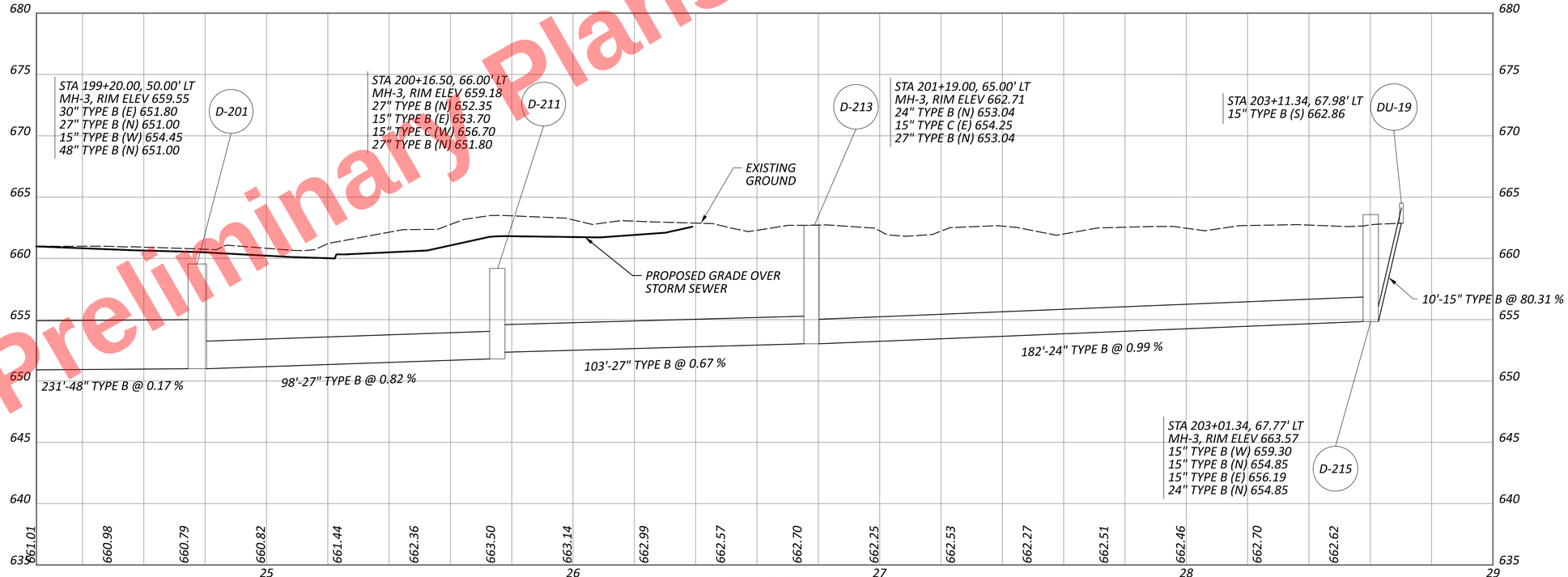


PROFILE "AQ"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.767 | TOTAL P.1135

MODEL: Sheet 6 - Profile AT - 2025 - Profile AT - 2025 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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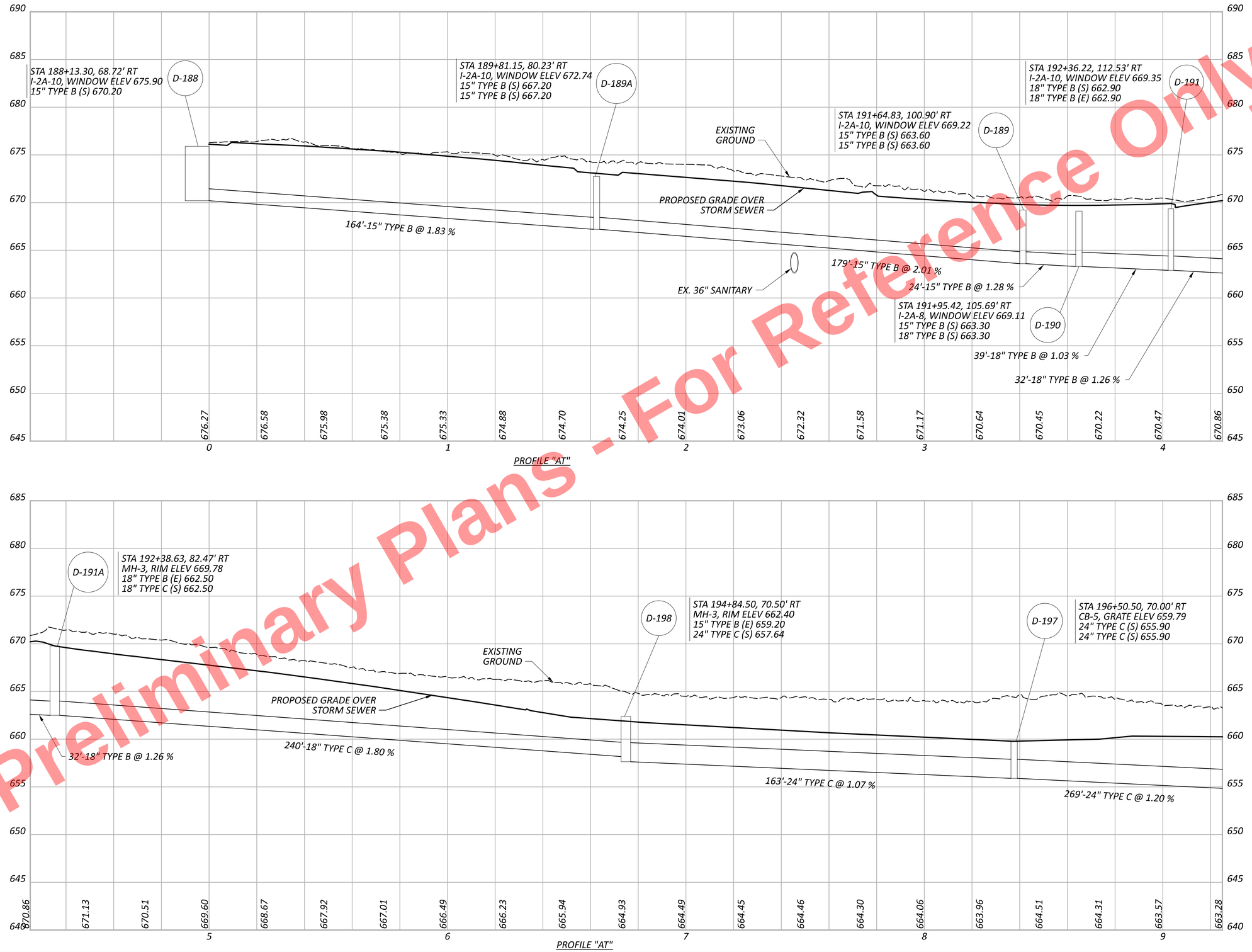
CUY-77-11.41 - PART 1




Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AT"

DESIGN AGENCY

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.768 TOTAL P.1135

MODEL: Sheet 7 - Profile AT - 2025 - Profile AT - 2027 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:22:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Steve.Will@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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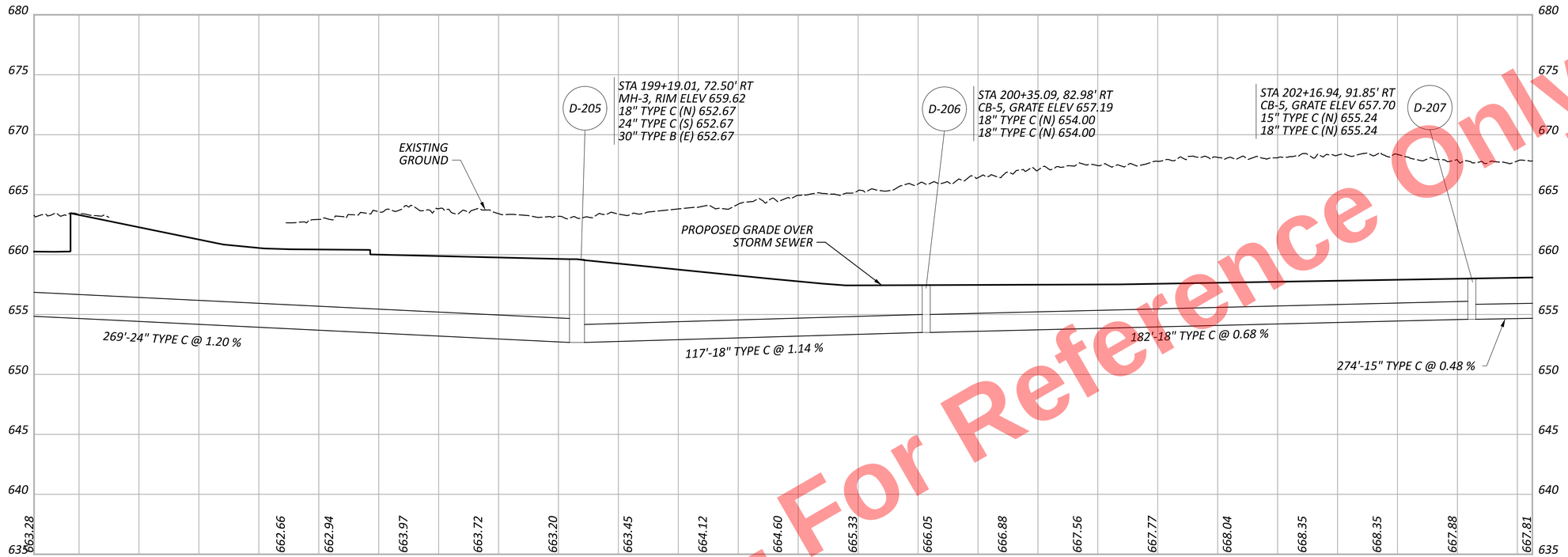
CUY-77-11.41 - PART 1

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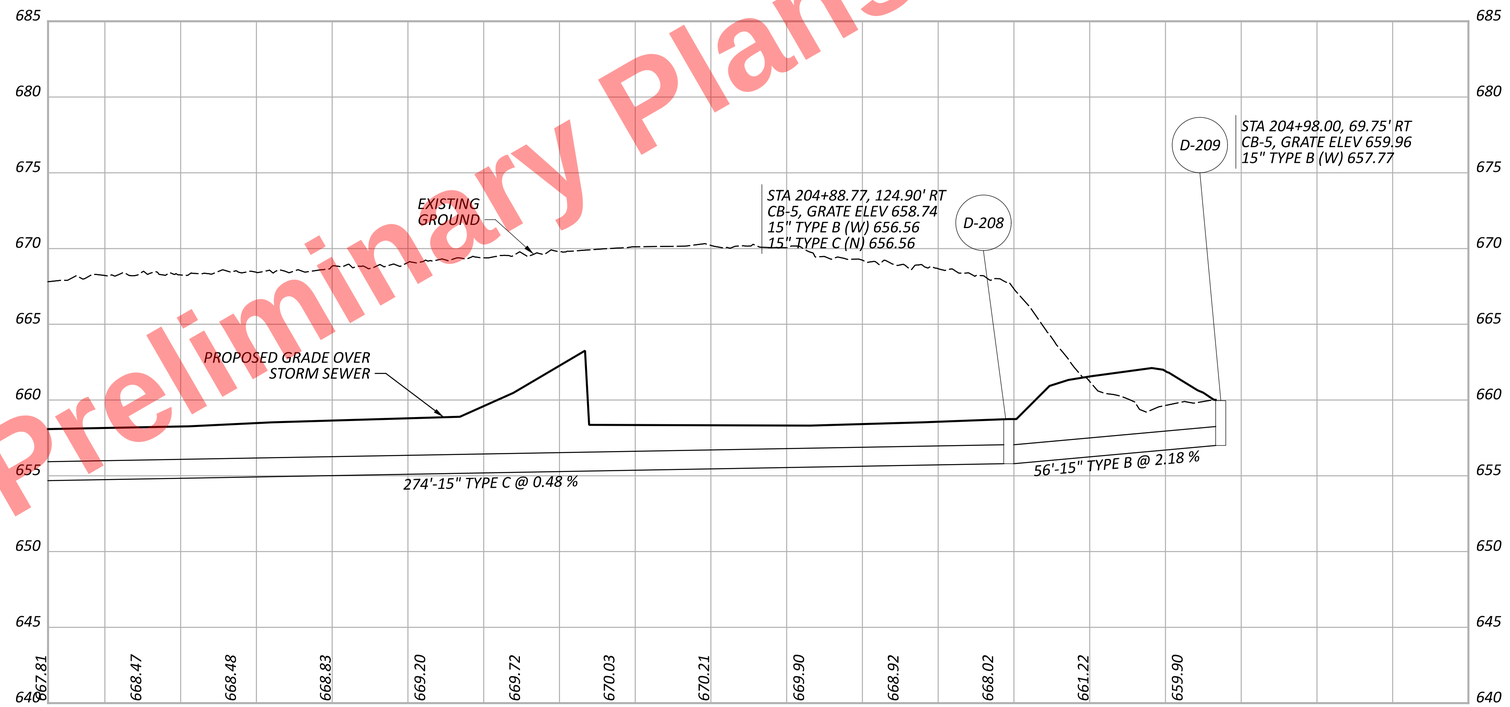



PROFILE "AT"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AT"

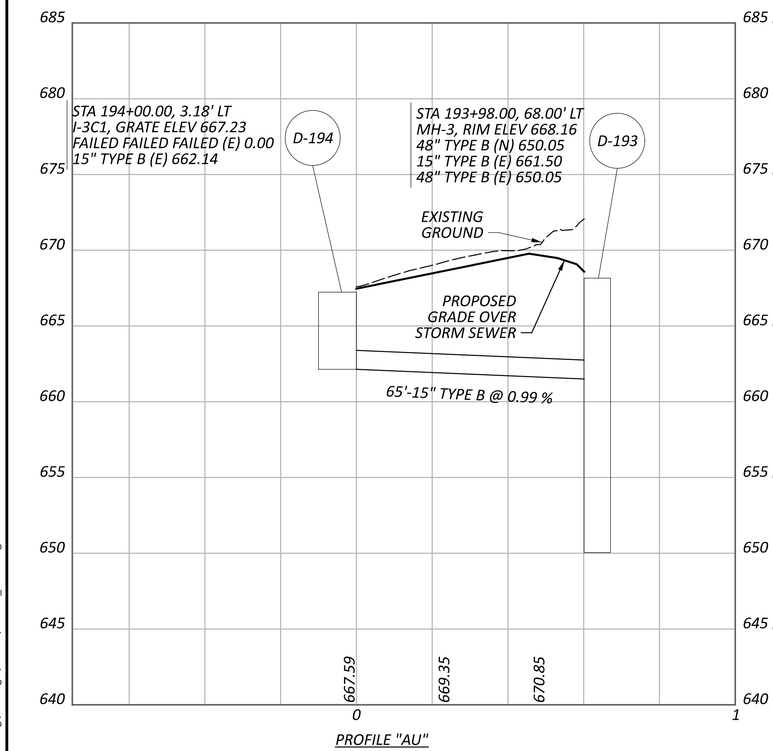
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
1025743

SHEET P.769 | TOTAL P.1135

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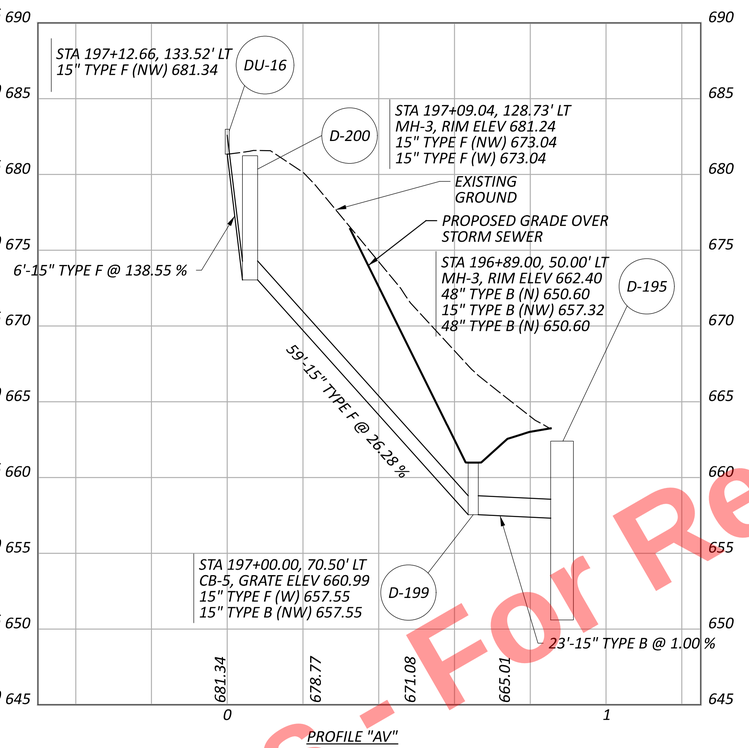


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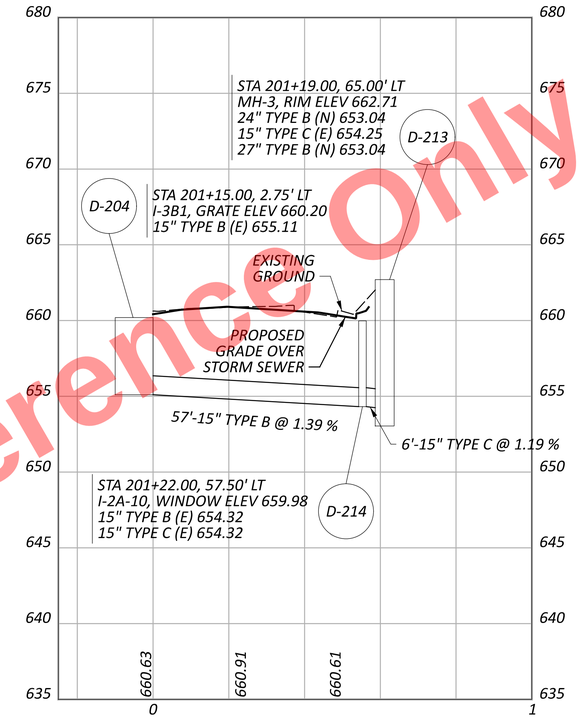


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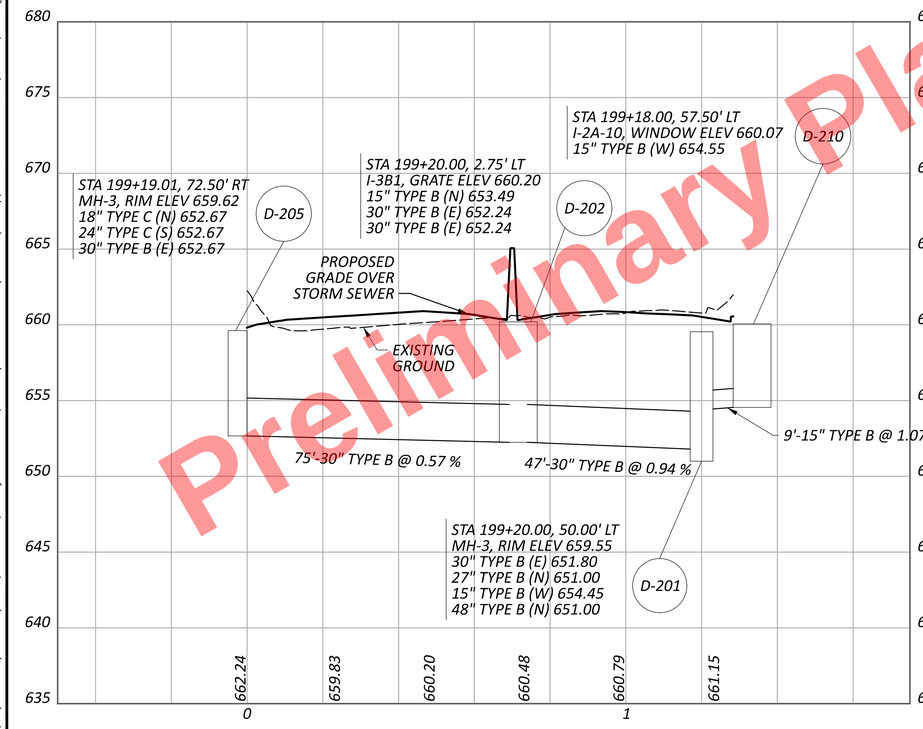


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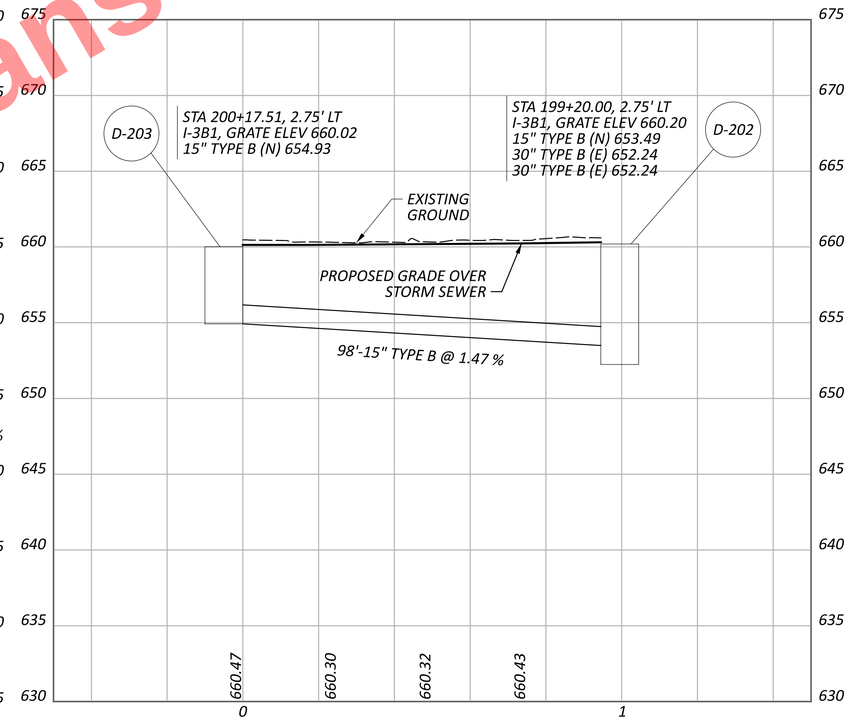
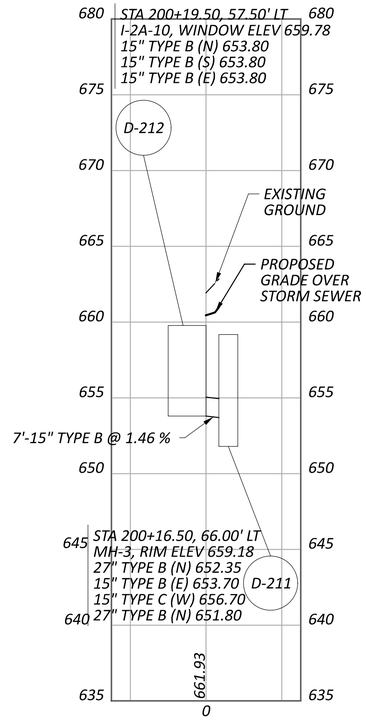



PROFILE "AX"




PROFILE "AY"

Preliminary Plans - For Reference Only

# DRAINAGE PROFILES - I.R. 77
## PROFILES "AU", "AV", "AW", "AX", "AY", "AZ"

CUY-77-11.41 - PART 1

MODEL: Sheet 8 - Profile AU - 2025 - Profile AU - 2025 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 5:53:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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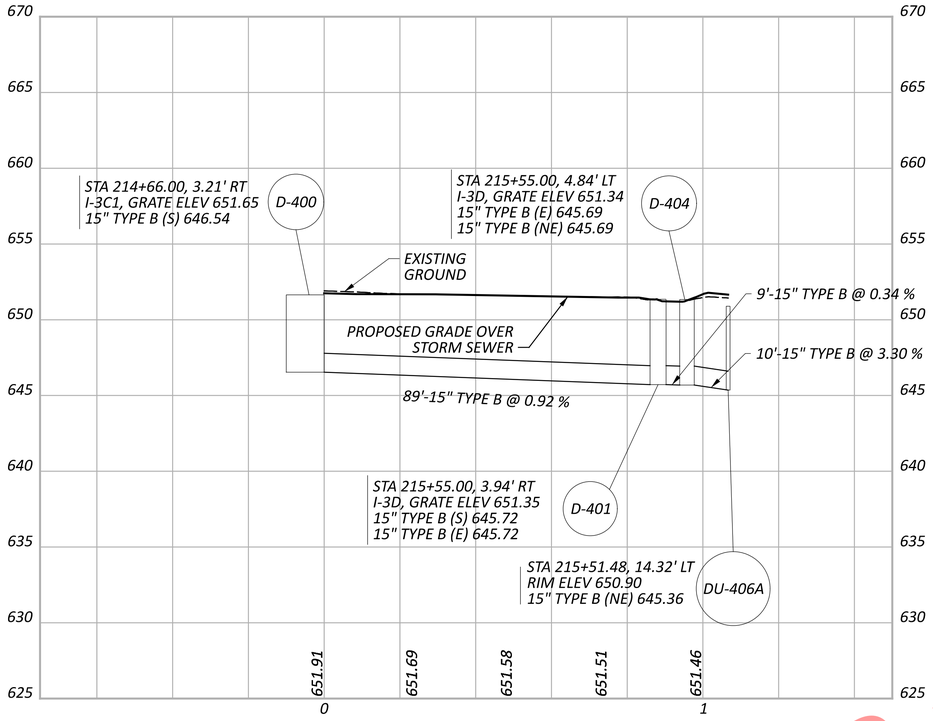
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.770 TOTAL P.1135

Preliminary Plans - For Reference Only

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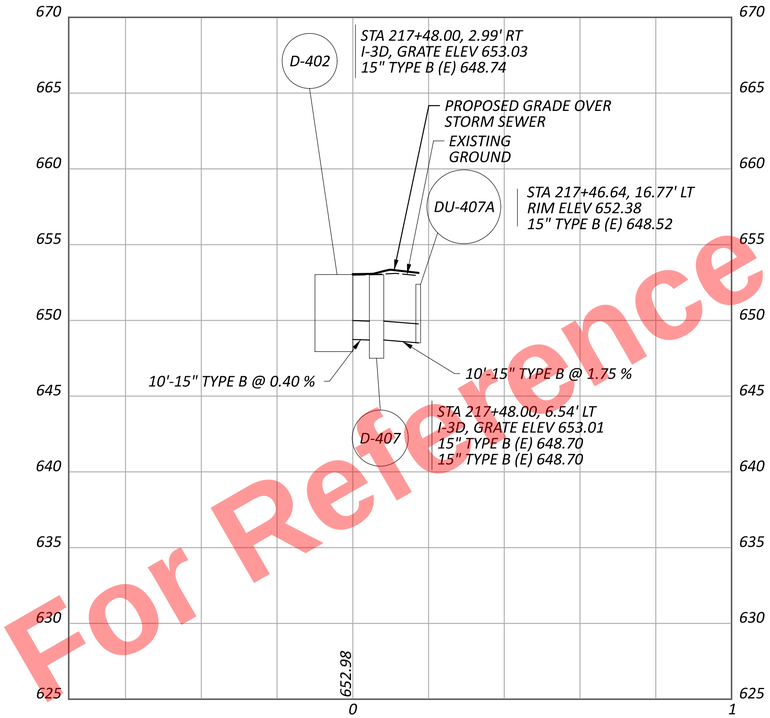
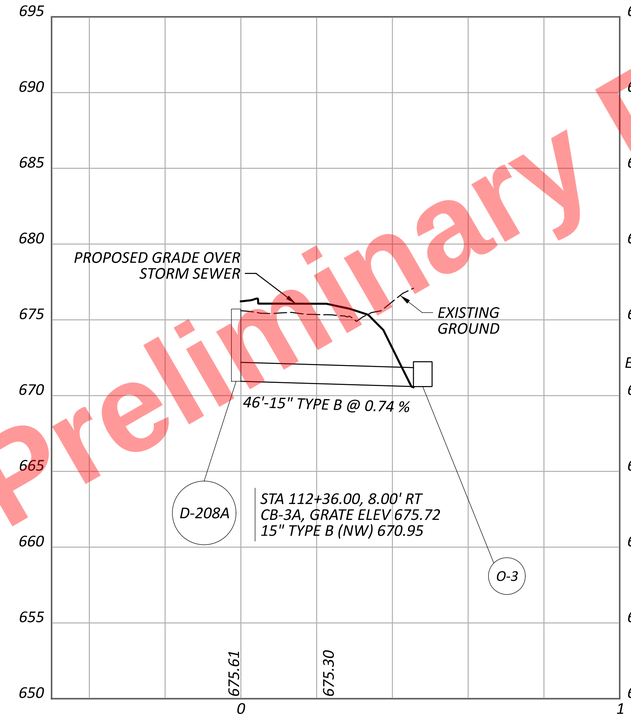



PROFILE "BB"

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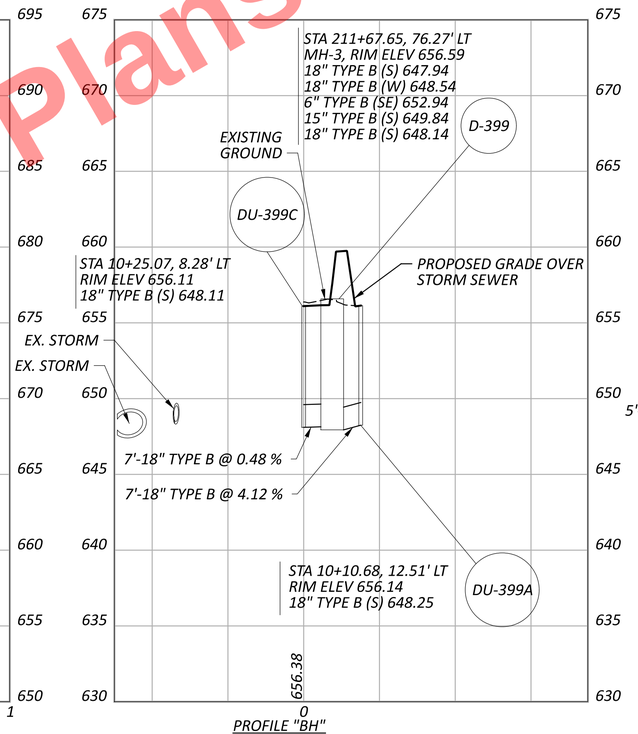


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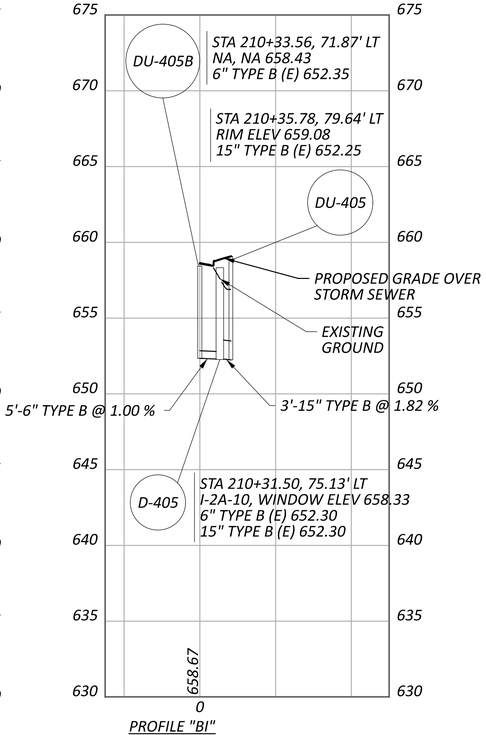


PROFILE "BI"

CUY-77-11.41 - PART 1

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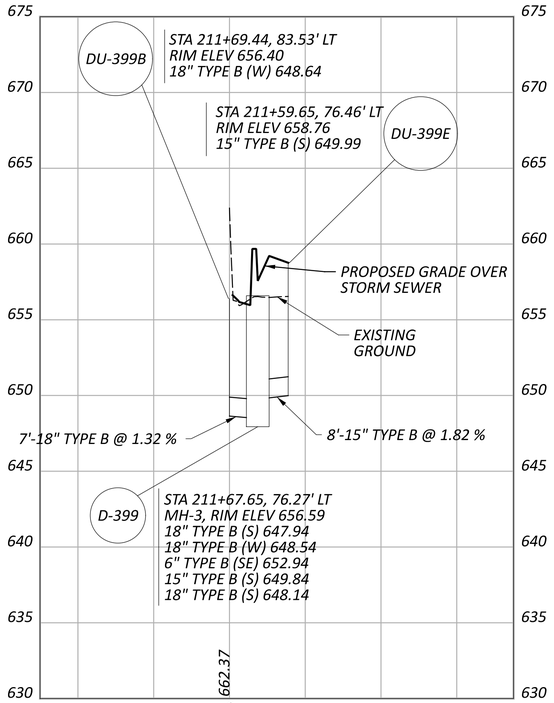
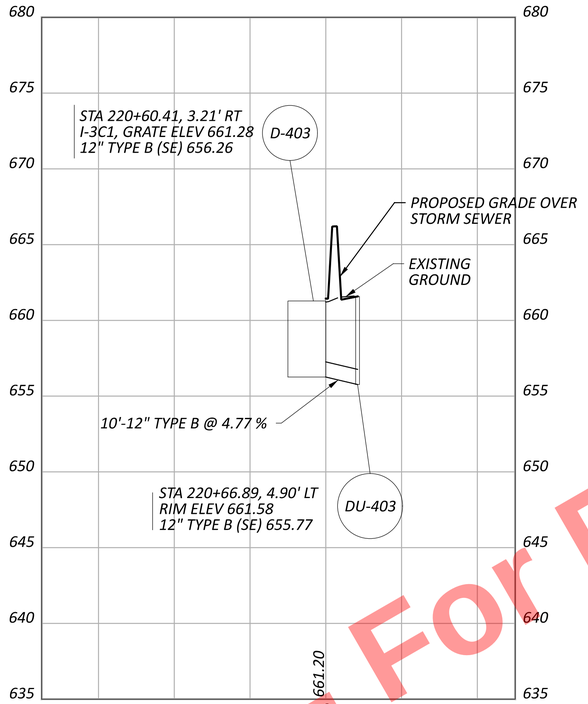
# DRAINAGE PROFILES - I.R. 77
## PROFILES "BA", "BB", "BD", "BH", "BI"

DESIGN AGENCY
AECOM

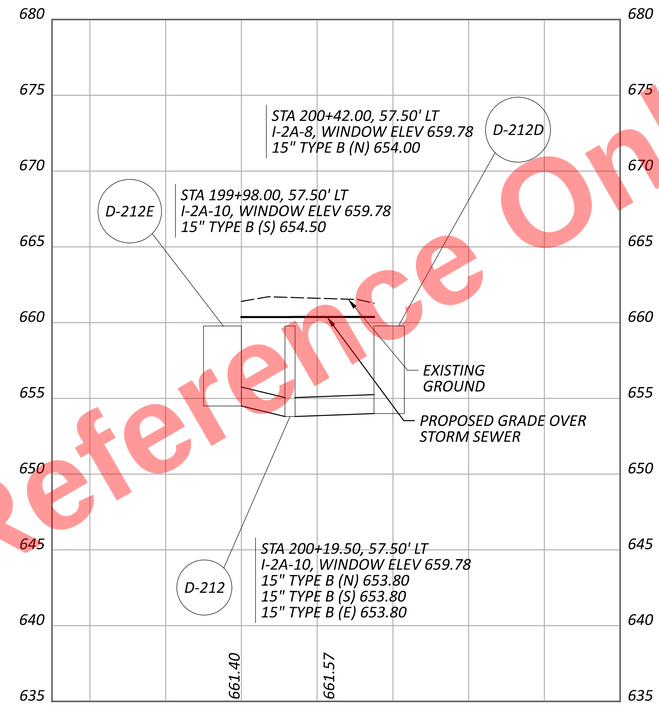
| | |
|---|---|
| DESIGNER | SMS |
| REVIEWER | AKM 11/17/25 |
| PROJECT ID | 1025743 |
| SHEET | P.771 |
| TOTAL | P.1135 |




PROFILE "BJ"




PROFILE "BK"

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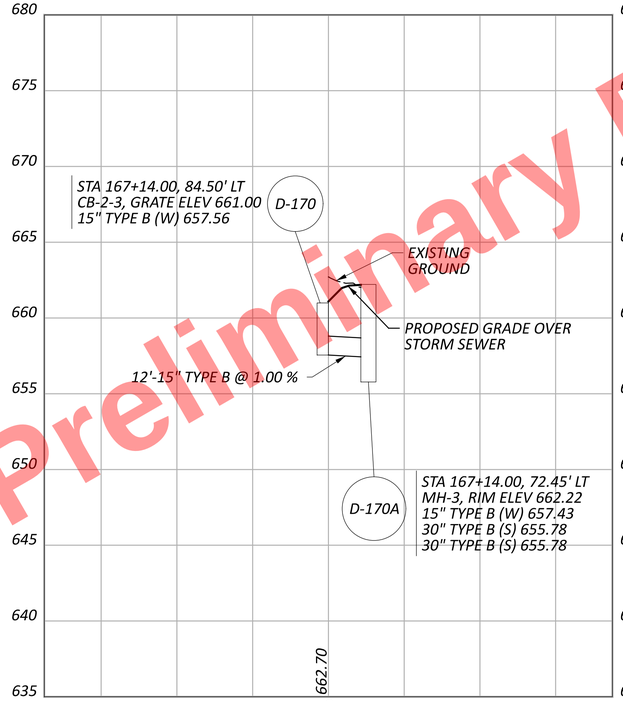
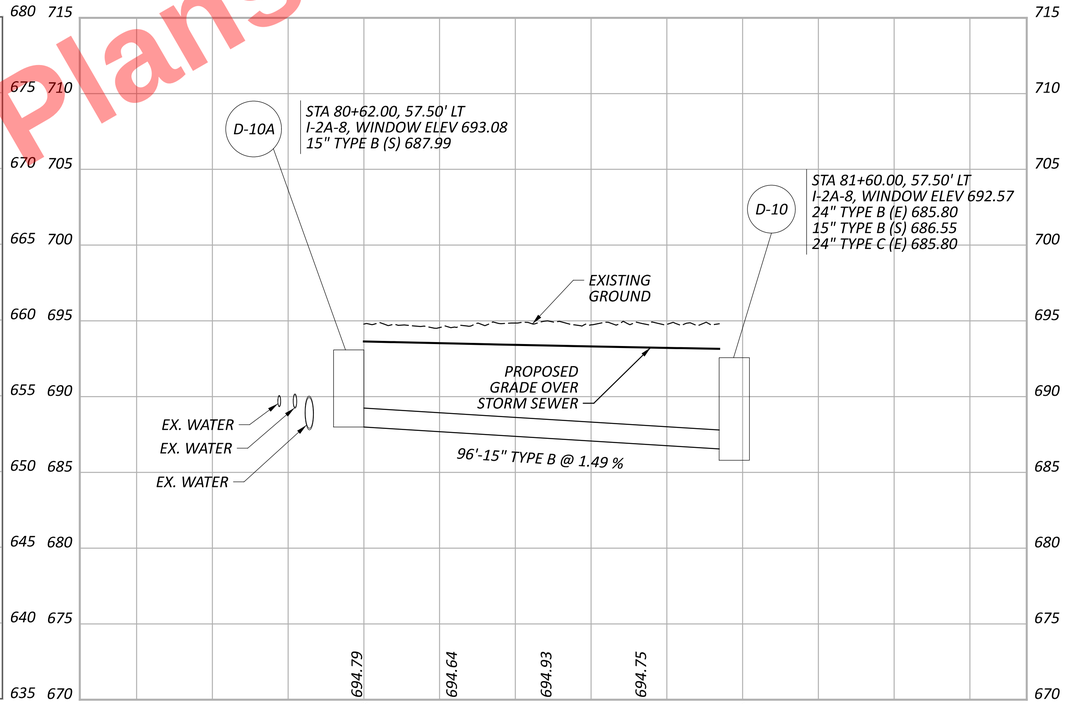



PROFILE "BM"




PROFILE "BC"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "BC", "BJ", "BK", "BM", "BP"

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 1025743
SHEET P.772 TOTAL P.1135

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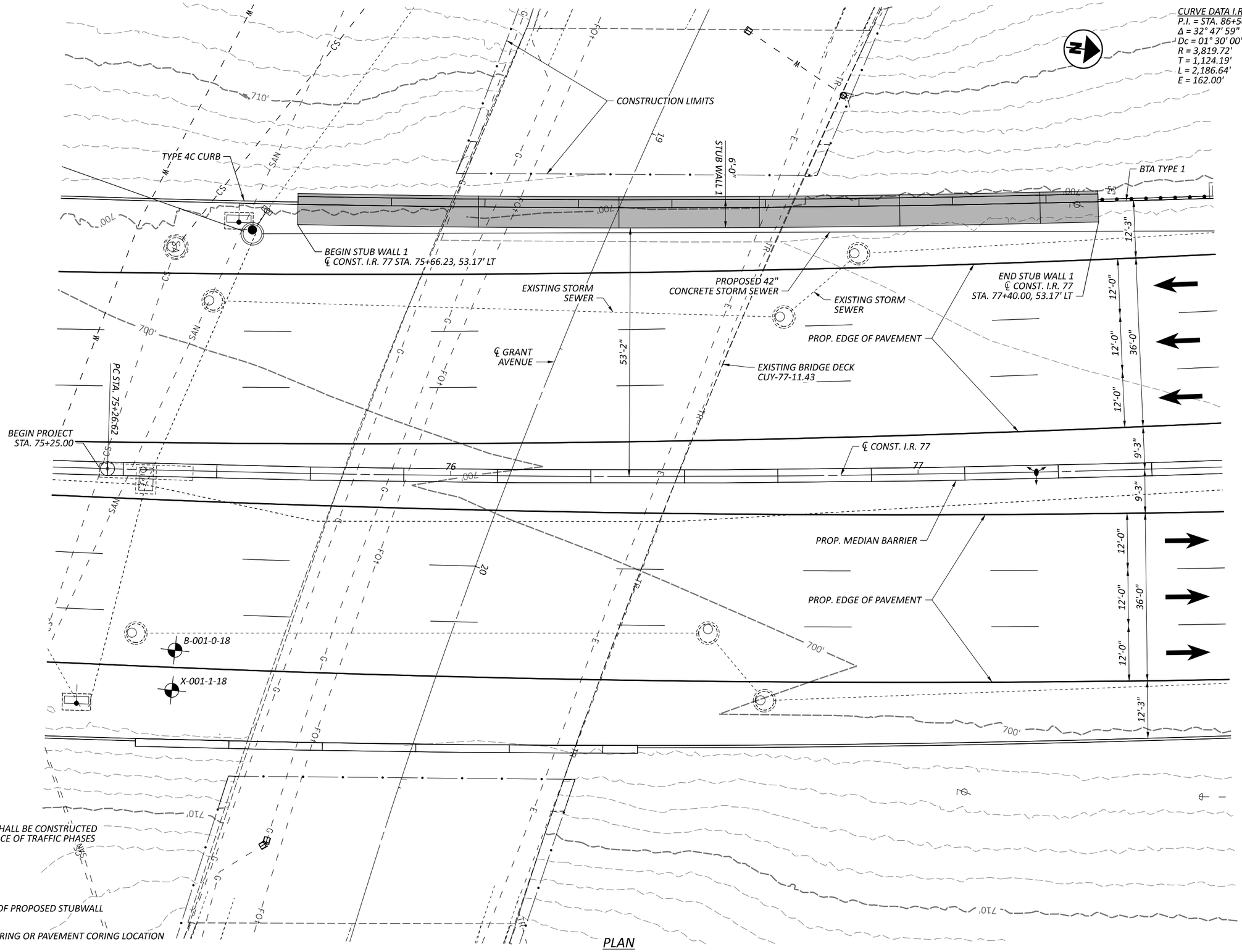


PLAN

*NOTE:*

1. STUBWALL 1 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

*LEGEND*

- LIMITS OF PROPOSED STUBWALL
- SOIL BORING OR PAVEMENT CORING LOCATION

# GENERAL PLAN
# STUBWALL 01

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 5 |
| SHEET | P.773 |
| TOTAL | P.1135 |

## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

| | | |
|---|---|---|
| BP-2.2 | DATED (REVISED) | 1-15-21 |
| MGS-3.1 | DATED (REVISED) | 7-18-25 |

## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

## FOUNDATION BEARING RESISTANCE:

THE STUBWALL SLAB FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 0.47 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 0.59 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 11.67 KIPS PER SQUARE FOOT.

## ITEM 511 - QC1 CONCRETE, MISC.: STUBWALL SLAB, WITH QC/QA

THIS PAY ITEM IS FOR THE CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE STUBWALL SLABS. PAYMENT SHALL INCLUDE CONCRETE, TRANSVERSE JOINT DOWELS, AND CONTRACTION JOINT SAWCUTS.

## ITEM 511 - QC2 CONCRETE, MISC.: BARRIER ON STUBWALL SLAB, WITH QC/QA

THIS PAY ITEM IS FOR THE CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE STUBWALL BARRIERS. PAYMENT SHALL INCLUDE CONCRETE AND CONTRACTION JOINT SAWCUTS.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE STUBWALL BARRIERS AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512.

THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

**ESTIMATED QUANTITIES (STUBWALL 01)**

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 509 | 10000 | 10375 | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 53010 | 44 | CY | CLASS QC1 CONCRETE, MISC.: STUBWALL SLAB, WITH QC/QA | 2 |
| 511 | 53012 | 30 | CY | CLASS QC2 CONCRETE, MISC.: BARRIER ON STUBWALL SLAB, WITH QC/QA | 2 |
| | | | | | |
| 512 | 10101 | 121 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33000 | 9 | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | 12 | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 31000 | 22 | FT | JOINT SEALER | |
| | | | | | |

GENERAL NOTES AND ESTIMATED QUANTITIES
STUBWALL 01

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 5
SHEET P.774 | TOTAL P.1135

CUY-77-11.41 - PART 1

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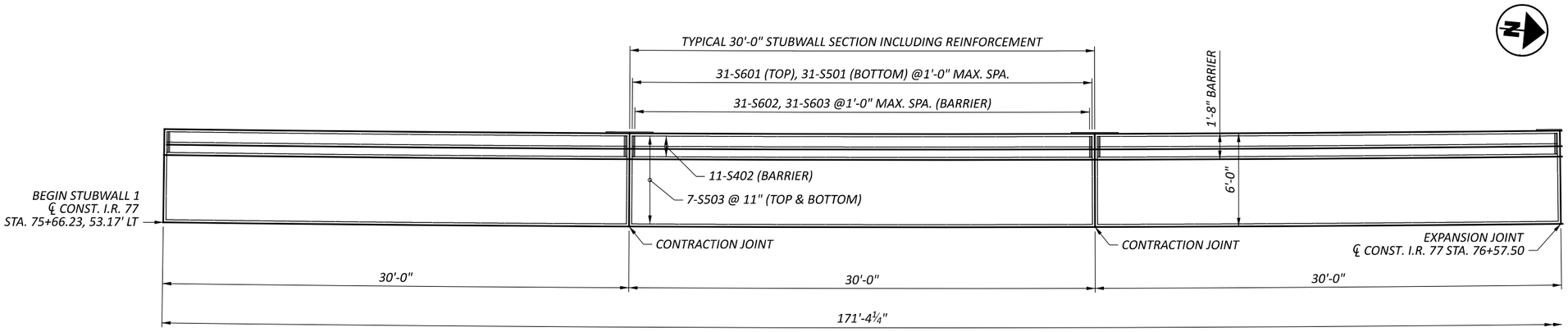
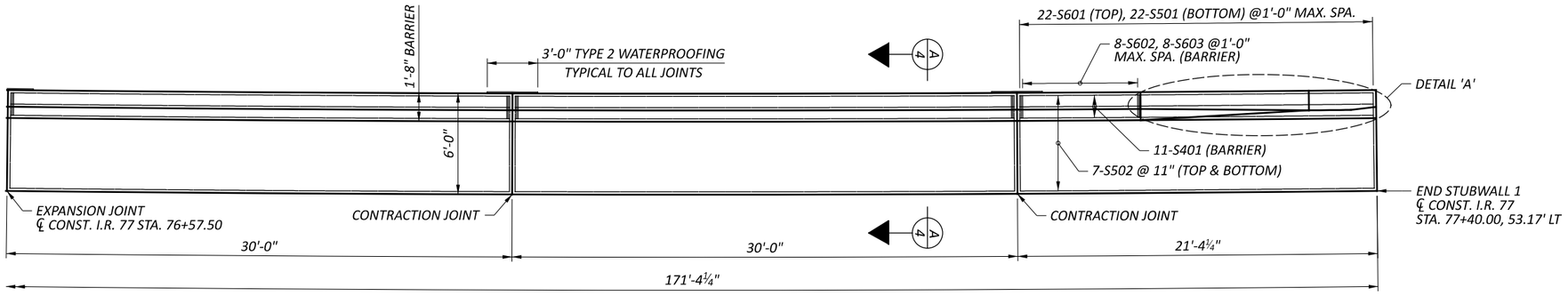
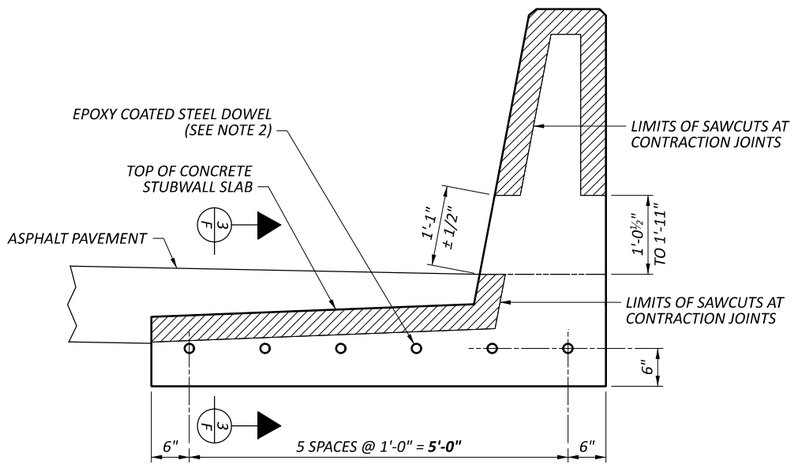



## PLAN STUBWALL 01

| STUBWALL 1 | |
|---|---|
| IR 77 STATION | BOTTOM OF SLAB ELEVATION |
| 75+66.23 | 696.92 |
| 75+96.65 | 696.49 |
| 76+27.08 | 696.05 |
| 76+57.50 | 695.67 |
| 76+87.92 | 695.37 |
| 77+18.35 | 695.07 |
| 77+40.00 | 694.85 |



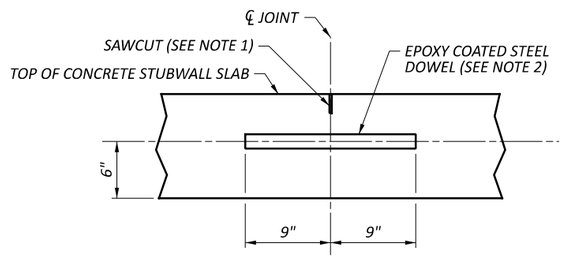

## PLAN STUBWALL 01



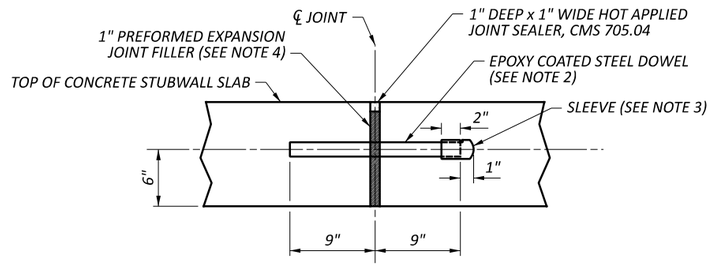

## JOINT DETAIL

## NOTES:

1. SAWCUTS SHALL BE 1/4" ± 1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH A DEPTH OF 2 1/4" TO 2 1/2".
2. SEAL THE PERIMETER OF THE CONTRACTION JOINT SAWCUTS IN THE STUBWALL SLAB AND BARRIER TO A MINIMUM DEPTH OF ONE INCH WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2 INCH ON BOTH THE INSIDE AND OUTSIDE FACES OF THE BARRIER UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.
3. DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.
4. INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.
5. EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE STUBWALL SLAB AS DETAILED.
6. FOR DETAIL 'A' AND SECTION A-A, SEE SHEET 4 OF 5.
7. ALL LONGITUDINAL DIMENSIONS ARE MEASURED ALONG THE TOE OF STUBWALL SLAB.




## SECTION F-F - CONTRACTION JOINT




## SECTION F-F - EXPANSION JOINT

REINFORCEMENT PLAN
STUBWALL 01

DESIGN AGENCY: TRC
DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 3 TOTAL: 5
SHEET: P.775 TOTAL: P.1135

CUY-77-11.41 - PART 1

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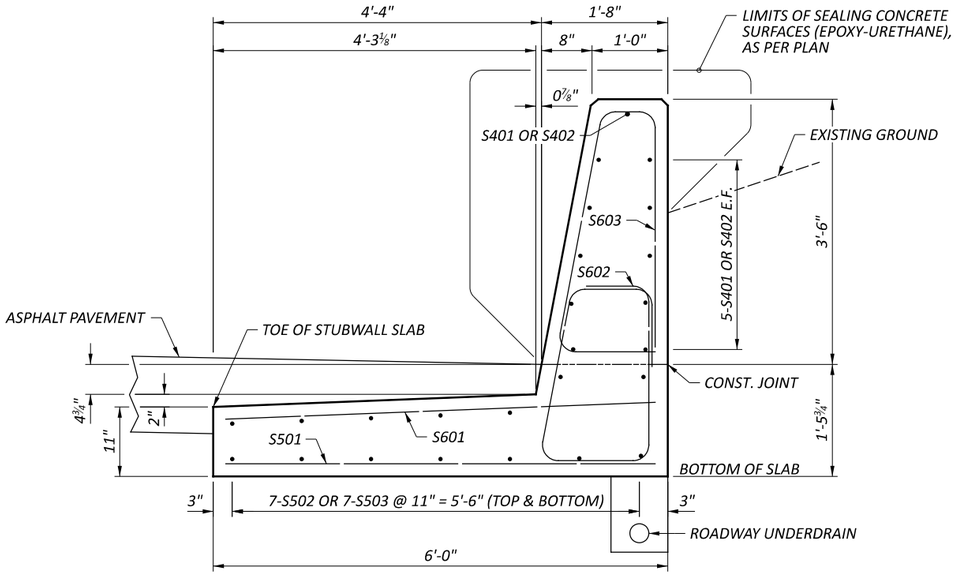
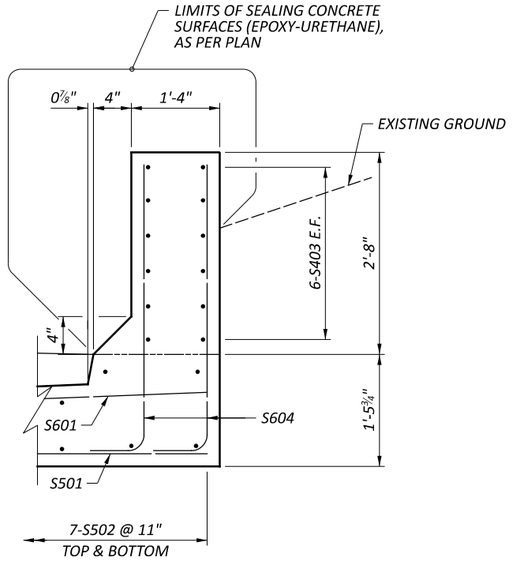
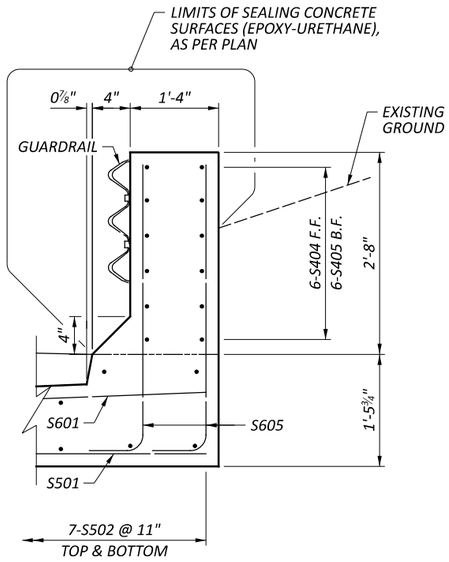



SECTION A-A




SECTION B-B

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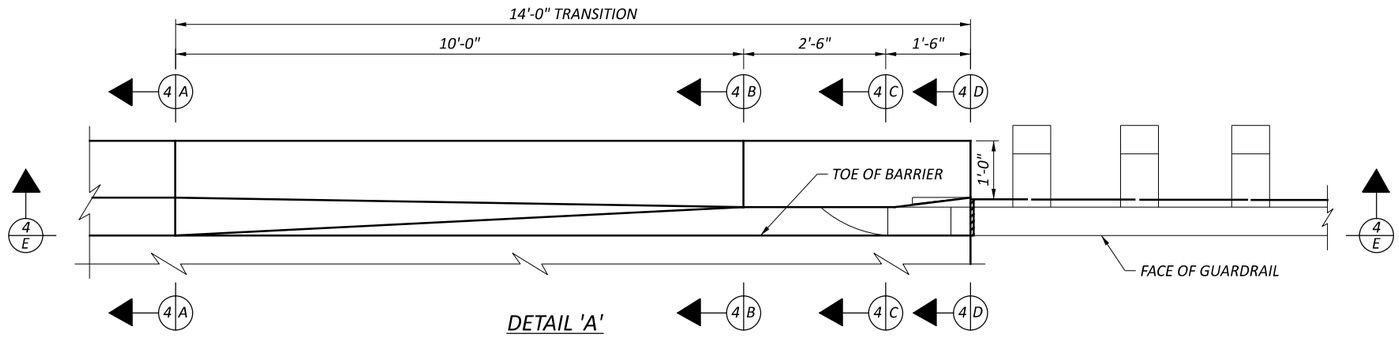
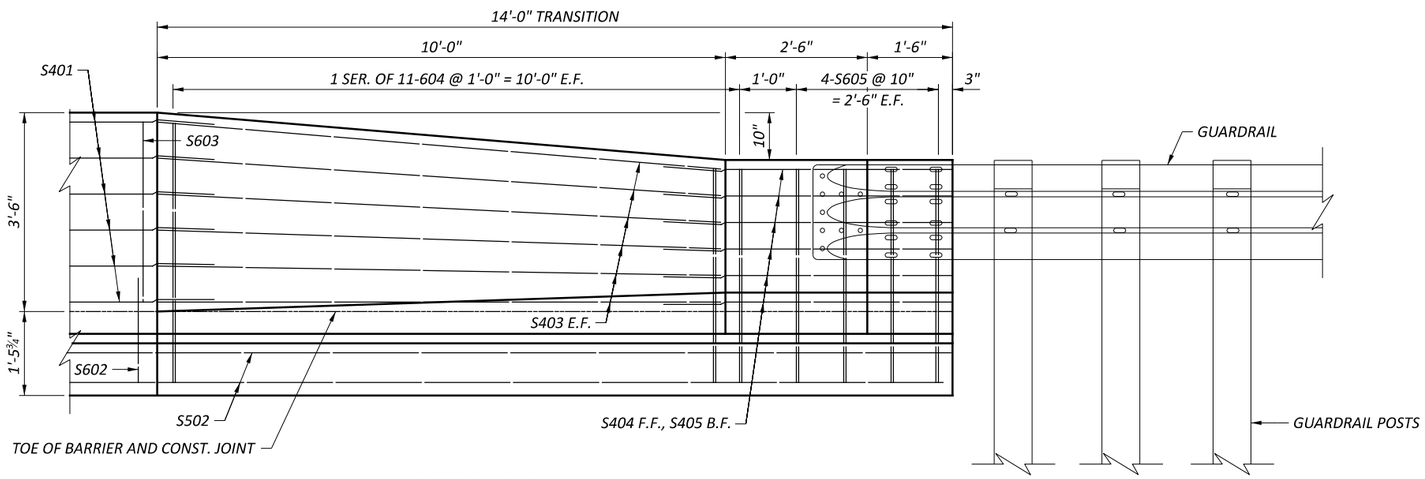
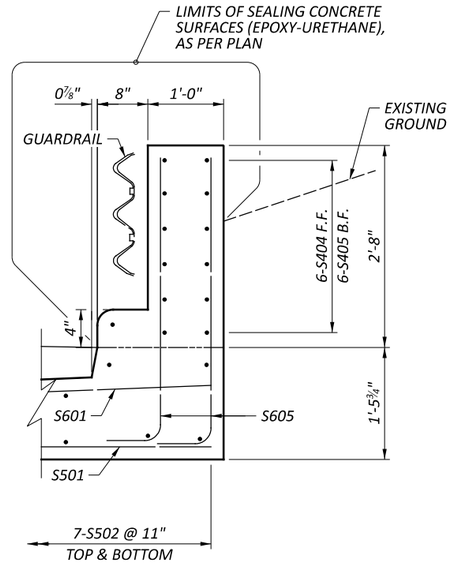



DETAIL 'A'




SECTION E-E




SECTION D-D

# BARRIER TRANSITION DETAILS AND SECTIONS
## STUBWALL 01

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 4 / 5 |
| SHEET / TOTAL | P.776 / P.1135 |

CUY-77-11.41 - PART 1

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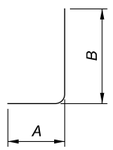
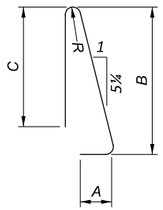
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| S401 | 11 | 8'-3" | 61 | STR | | | | | | | |
| S402 | 55 | 29'-8" | 1090 | STR | | | | | | | |
| S403 | 12 | 10'-0" | 80 | STR | | | | | | | |
| S404 | 6 | 6'-4" | 25 | 25 | 2'-6" | 2'-5" | 1'-5" | 0'-1 ½" | 0'-5" | | |
| S405 | 6 | 5'-1" | 20 | STR | | | | | | | |
| | | | | | | | | | | | |
| S501 | 177 | 5'-8" | 1046 | STR | | | | | | | |
| S502 | 14 | 21'-0" | 307 | STR | | | | | | | |
| S503 | 70 | 29'-8" | 2166 | STR | | | | | | | |
| | | | | | | | | | | | |
| S601 | 177 | 5'-8" | 1507 | STR | | | | | | | |
| S602 | 163 | 8'-6" | 2081 | 37 | 1'-2" | 0'-11 ½" | 1'-5" | 1'-0" | 0'-9" | | |
| S603 | 163 | 7'-2" | 1755 | 23 | 0'-6" | 3'-3" | 3'-3" | | | 0'-3" | |
| | 2 | 4'-6" | | | | 3'-8" | | | | | |
| S604 | SER. OF | TO | 162 | 1 | 1'-0" | TO | | | | | 0'-1" |
| | 11 | 5'-4" | | | | 4'-6" | | | | | |
| S605 | 8 | 4'-6" | 54 | 1 | 1'-0" | 3'-8" | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | TOTAL | 10,375 | | | | | | | | |




TYPE-1

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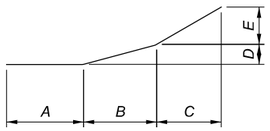


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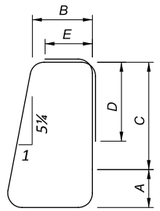


TYPE-37

*NOTES:*

1. *THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.*

2. *ALL REINFORCING STEEL TO BE EPOXY COATED.*

REINFORCING STEEL LIST
STUBWALL 01

CUY-77-11.41 - PART 1


MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:53:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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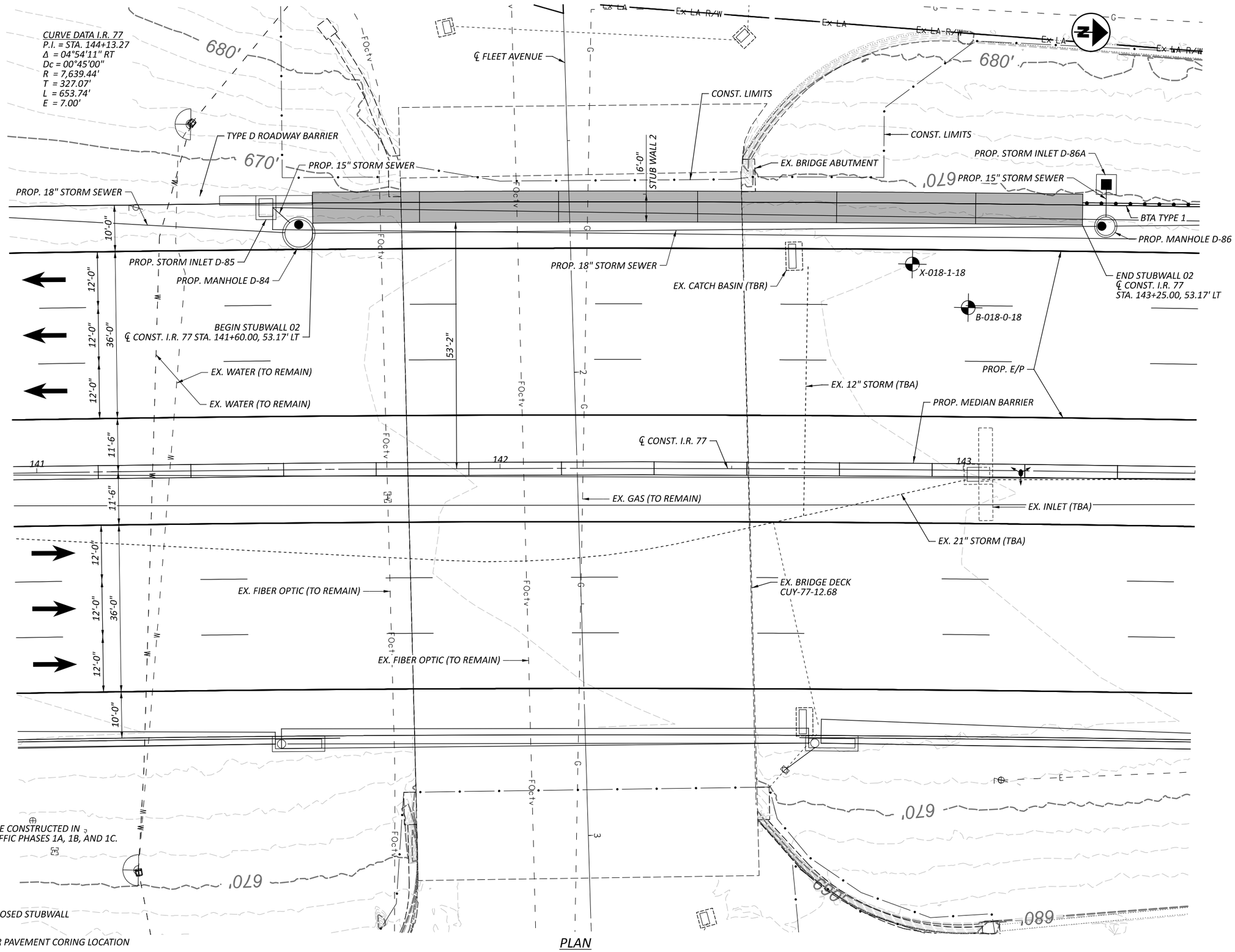
DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 5 |
| SHEET | P.777 |
| TOTAL | P.1135 |




PLAN

## NOTE:

1. STUBWALL 02 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

## LEGEND

- LIMITS OF PROPOSED STUBWALL
- SOIL BORING OR PAVEMENT CORING LOCATION

# GENERAL PLAN
# STUBWALL 02

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 5 |
| SHEET | P.778 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

| | | |
|---|---|---|
| BP-2.2 | DATED (REVISED) | 1-15-21 |
| MGS-3.1 | DATED (REVISED) | 7-18-25 |

## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

## FOUNDATION BEARING RESISTANCE:

THE STUBWALL SLAB FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 0.47 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 0.59 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 11.67 KIPS PER SQUARE FOOT.

## ITEM 511 - QC1 CONCRETE, MISC.: STUBWALL SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE STUBWALL SLABS. PAYMENT SHALL INCLUDE CONCRETE, TRANSVERSE JOINT DOWELS, AND CONTRACTION JOINT SAWCUTS.

## ITEM 511 - QC2 CONCRETE, MISC.: BARRIER ON STUBWALL, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE STUBWALL BARRIERS. PAYMENT SHALL INCLUDE CONCRETE AND CONTRACTION JOINT SAWCUTS.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE STUBWALL BARRIERS AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512.

THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

### ESTIMATED QUANTITIES (STUBWALL 02)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 509 | 10000 | 10026 | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 53010 | 42 | CY | CLASS QC1 CONCRETE, MISC.: STUBWALL SLAB, WITH QC/QA | |
| 511 | 53012 | 29 | CY | CLASS QC2 CONCRETE, MISC.: BARRIER ON STUBWALL SLAB, WITH QC/QA | |
| | | | | | |
| 512 | 10101 | 117 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | |
| 512 | 33000 | 9 | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | 12 | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 31000 | 22 | FT | JOINT SEALER | |
| | | | | | |



DESIGN AGENCY
TRC
DESIGNER
JCP
REVIEWER
CJW 11/17/25
PROJECT ID
105743
SUBSET 2 | TOTAL 5
SHEET P.779 | TOTAL P.1135

CUY-77-11.41 - PART 1
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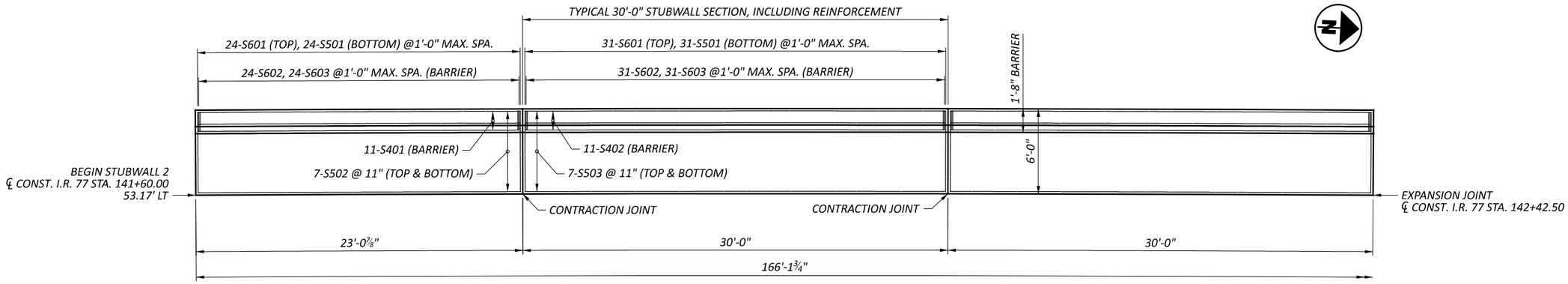
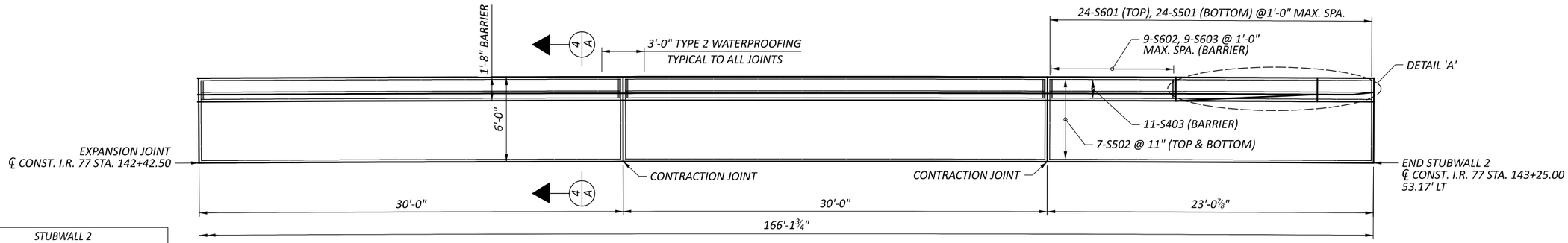
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\STUBWALL02\Sheets\105743_WALLSTUB02_WN001.dgn

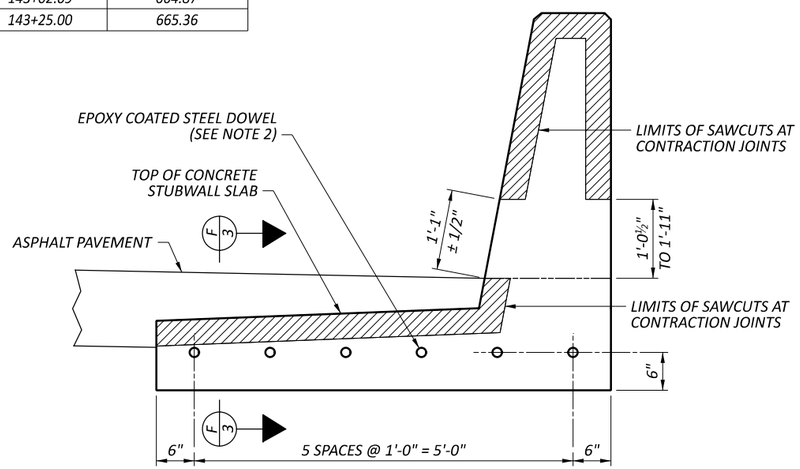



PLAN STUBWALL 02




PLAN STUBWALL 02

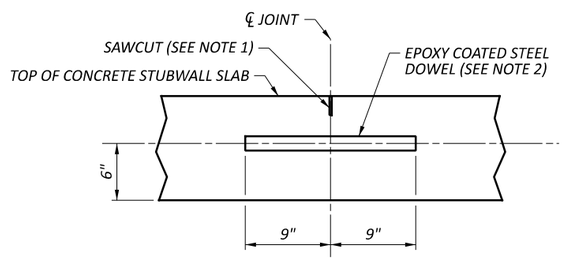
| STUBWALL 2 | |
|---|---|
| IR 77 STATION | BOTT. OF SLAB ELEVATION |
| 141+60.00 | 661.94 |
| 141+82.91 | 662.37 |
| 142+12.71 | 662.96 |
| 142+42.50 | 663.58 |
| 142+72.29 | 664.22 |
| 143+02.09 | 664.87 |
| 143+25.00 | 665.36 |



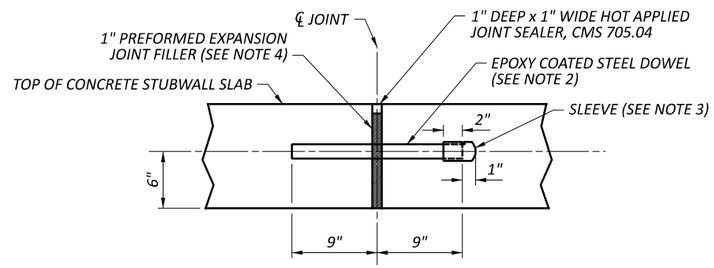

JOINT DETAIL

## NOTES:

1. SAWCUTS SHALL BE 1/4" ± 1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH A DEPTH OF 2 1/4" TO 2 1/2".
2. SEAL THE PERIMETER OF THE CONTRACTION JOINT SAWCUTS IN THE STUBWALL SLAB AND BARRIER TO A MINIMUM DEPTH OF ONE INCH WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2 INCH ON BOTH THE INSIDE AND OUTSIDE FACES OF THE BARRIER UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.
3. DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.
4. INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.
5. EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE STUBWALL SLAB AS DETAILED.
6. FOR DETAIL 'A' AND SECTION A-A, SEE SHEET 4 OF 5.
7. ALL LONGITUDINAL DIMENSIONS ARE MEASURED ALONG THE TOE OF STUBWALL SLAB.




SECTION F-F - CONTRACTION JOINT




SECTION F-F - EXPANSION JOINT

REINFORCEMENT PLAN
STUBWALL 02

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 5

SHEET P.780 | TOTAL P.1135

CUY-77-11.41 - PART 1

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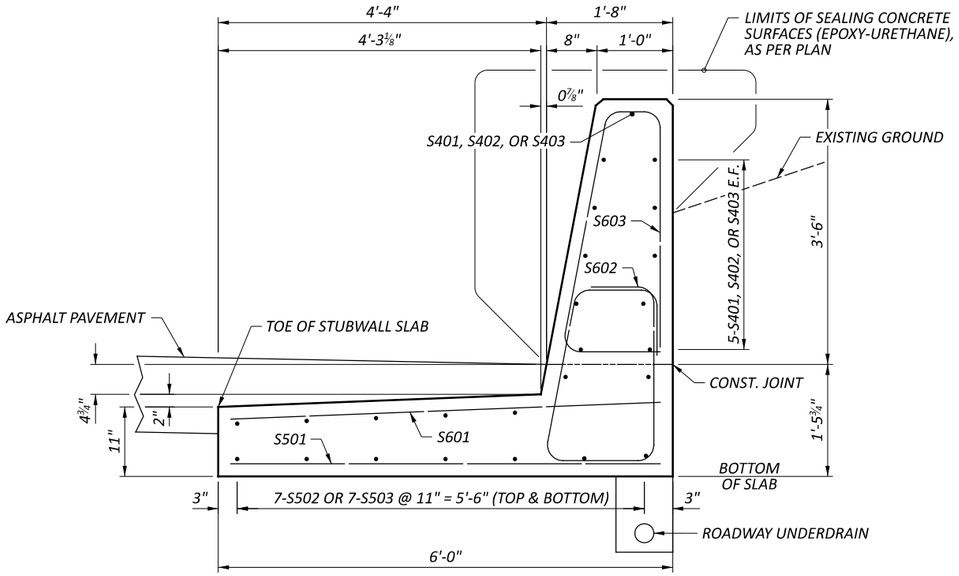
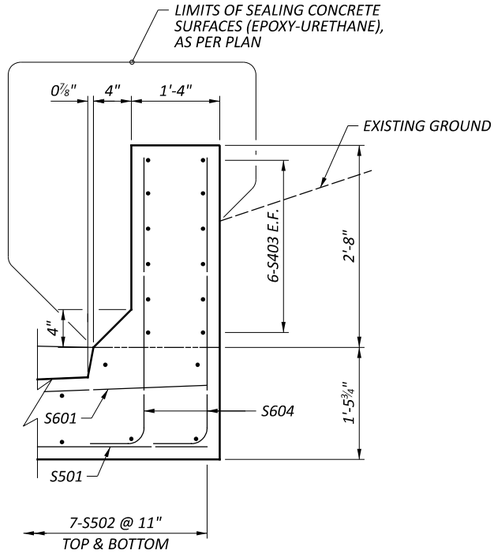
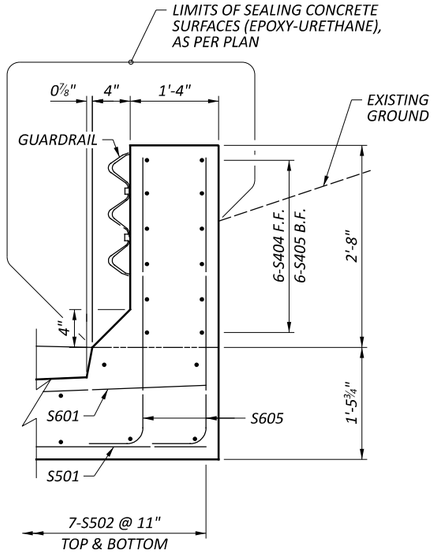


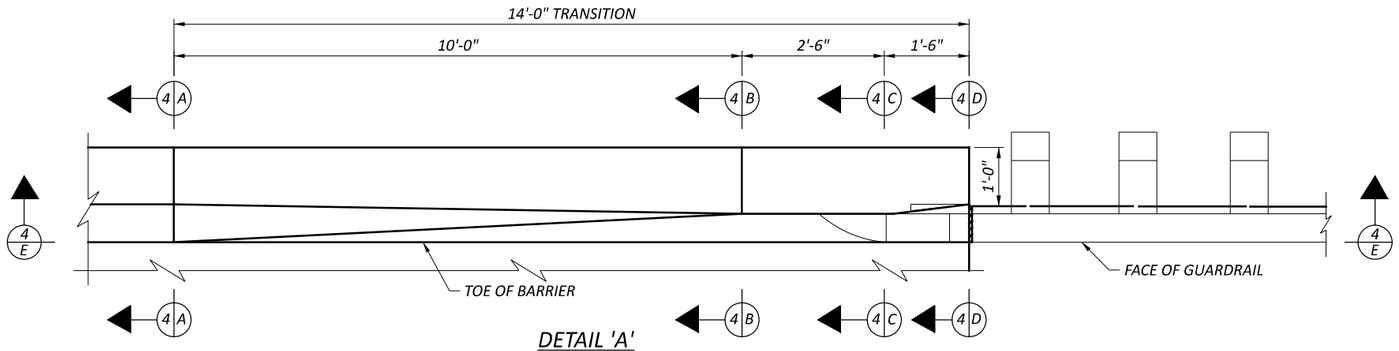

SECTION A-A



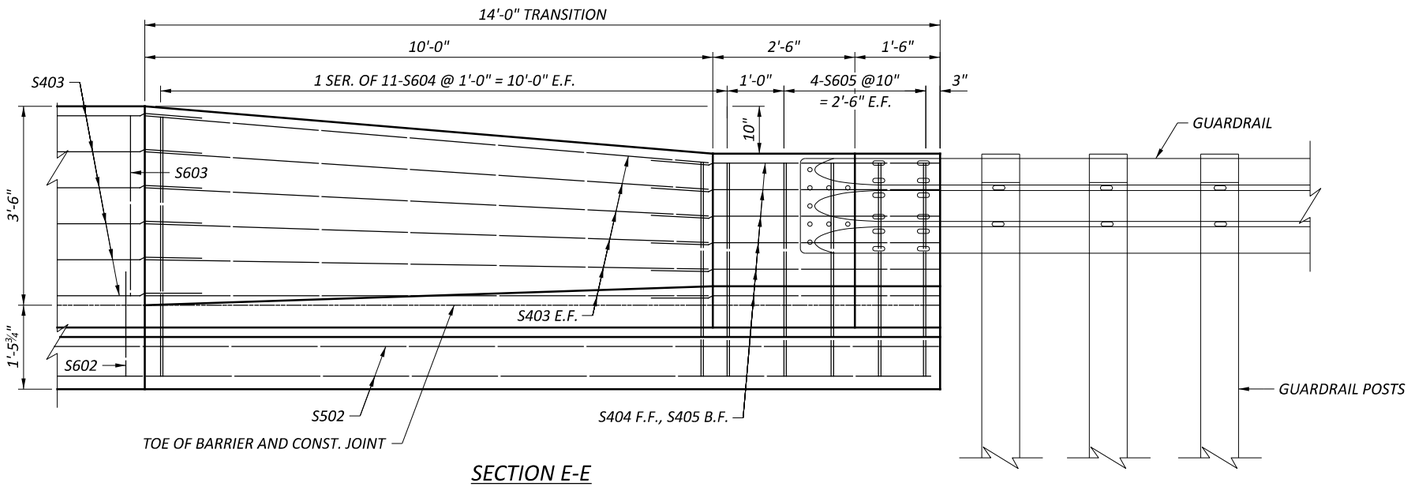

SECTION B-B



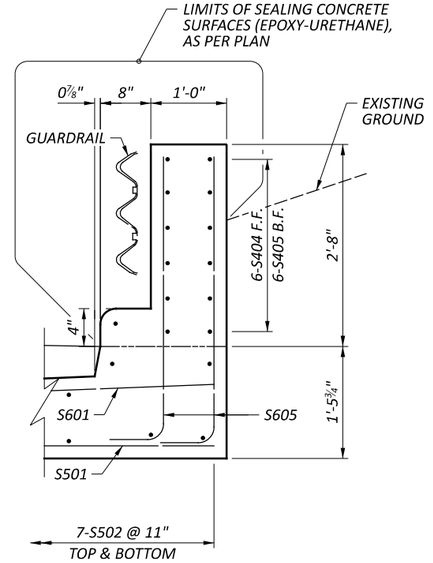

SECTION C-C




DETAIL 'A'




SECTION E-E




SECTION D-D

# BARRIER TRANSITION DETAILS AND SECTIONS STUBWALL 02

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 4 TOTAL: 5

SHEET: P.781 TOTAL: P.1135

CUY-77-11.41 - PART 1

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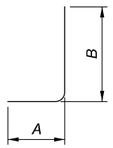
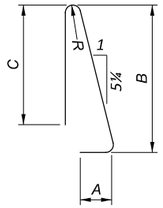
| MARK | NUMBER / TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C | D | E | R | INC |
| S401 | 11 | 22'-9" | 167 | STR | | | | | | | |
| S402 | 44 | 29'-8" | 872 | STR | | | | | | | |
| S403 | 23 | 10'-0" | 154 | STR | | | | | | | |
| S404 | 6 | 6'-4" | 25 | 25 | 2'-6" | 2'-5" | 1'-5" | 0'-1 ½" | 0'-5" | | |
| S405 | 6 | 5'-1" | 20 | STR | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| S501 | 172 | 5'-8" | 1017 | STR | | | | | | | |
| S502 | 28 | 22'-9" | 664 | STR | | | | | | | |
| S503 | 56 | 29'-8" | 1733 | STR | | | | | | | |
| | | | | | | | | | | | |
| S601 | 172 | 5'-8" | 1464 | STR | | | | | | | |
| S602 | 157 | 8'-6" | 2004 | 37 | 1'-2" | 0'-11 ½" | 1'-5" | 1'-0" | 0'-9" | | |
| S603 | 157 | 7'-2" | 1690 | 23 | 0'-6" | 3'-3" | 3'-3" | | | 0'-3" | |
| | 2 | 4'-6" | | | | 3'-8" | | | | | |
| S604 | SER. OF | TO | 162 | 1 | 1'-0" | TO | | | | | 0'-1" |
| | 11 | 5'-4" | | | | 4'-6" | | | | | |
| S605 | 8 | 4'-6" | 54 | 1 | 1'-0" | 3'-8" | | | | | |
| | | | | | | | | | | | |
| | | TOTAL | 10,026 | | | | | | | | |




TYPE-1

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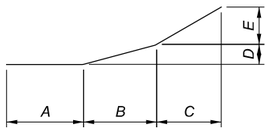


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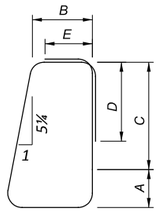


TYPE-37

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

# REINFORCING STEEL LIST
# STUBWALL 02

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\STUBWALL02\Sheets\105743_STUBWALL02_WL001.dgn

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 5 |
| SHEET | P.782 |
| TOTAL | P.1135 |

CURVE DATA RAMP A3
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

CURVE DATA WALL 1A
P.I. = STA. 2+13.53
Δ = 14°35'50" LT
Dc = 03°26'12"
R = 1,667.20'
T = 213.53'
L = 424.75'
E = 13.62'

CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Ex LA R/W
Ex LA
CONST. LIMITS
POC STA. 0+00.00
PROP. CURB INLET
EX. 15" CONCRETE STORM (TBA)
BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
EXISTING LIGHT POLE TO BE REMOVED (TYP.)
PROP. CATCH BASIN
EX. STORM STRUCTURE (TBR)
PROP. UNLINED DRAINAGE DITCH
EX. STORM STRUCTURE (TBR)
℄ CONST. RAMP A3 AND E/P
PROP. UNLINED DRAINAGE DITCH
POT WALL 1A STA. 4+24.75
℄ CONST. I.R. 77 STA. 88+37.31, 69.30' LT
EX. 12" STORM DRAIN TO REMAIN
EX. BUILDING
POT STA. 311+16.62
POT STA. 311+29.78
END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
POT STA. 5+24.91
PROP. CATCH BASIN
4:1
16'-0"
℄ WALL 1A
PROP. STORM INLET
PROP. 60" STORM SEWER
EX. 18" CONCRETE STORM (TO BE ABANDONED)
PROP. E/P
EX. STORM STRUCTURE (TBA)
EX. OVERHEAD TRUSS
EX. 12" CONCRETE STORM (ABANDONED)
EX. 18" CONCRETE STORM (TBA)
B-041-0-020
X-004-1-18
B-004-0-18
B-042-0-020
PROP. 15" STORM SEWER
PROP. MANHOLE
PROP. TYPE D CONC. BARRIER
N20°16'22"W
N24°05'07"W
13.16'
12'-0"
PROP. 12" STORM SEWER
PROP. MANHOLE
EX. STORM STRUCTURE (TBR)
EX. CONCRETE STORM (TBA)
PROP. SHOULDER
EX. ABUTMENT OF BRIDGE CUY-77-1169 (TO REMAIN)
PROP. 60" STORM SEWER
EX. BRIDGE DECK
36'-0"
12'-0" 12'-0" 12'-0"
11'-6" 11'-6"
℄ CONST. I.R. 77
PROP. E/P
TYPE B1 CONC. BARRIER MEDIAN
EX. 42" CONCRETE STORM (TBA)
PROP. STORM INLET
EX. STORM INLET (TBA)
307
308
309
310
311
85
86
87
88
89

## PLAN

## LEGEND:

℄ - SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASE 1B.

PROPOSED PAVEMENT ELEVATIONS AT TOE OF BARRIER
692.24 692.28 692.41 692.59 692.90 693.20 693.48 693.76 694.02 694.27 694.49 694.70 694.87 695.03 695.16 695.28 695.37 695.54 695.70 695.84 695.98

WALL 1A = 500.00' SOLDIER PILE RETAINING WALL
MEASURED ALONG FRONT FACE

BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
TOP OF WALL EL. 695.74

PROPOSED GRADE EL. 693.74
PROPOSED GRADE AT BACK OF WALL
PROPOSED GRADE AT TOE OF BARRIER
EXISTING GROUND AT BACK OF WALL
TOP OF WALL
WALL 1A STA. 4+24.75
TOP OF WALL EL. 711.05
PROPOSED GRADE EL. 710.05
END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
TOP OF WALL EL. 715.20
PROPOSED GRADE EL. 714.20
EX. ABUTMENT OF BRIDGE CUY-77-1169 TO REMAIN
EXISTING ABUTMENT BOTTOM OF FOOTING EL. 689.4 +/-

BOTTOM OF WALL 1A EL. 690.69
BOTTOM OF WALL 1A EL. 691.01
BOTTOM OF WALL 1A EL. 691.37
BOTTOM OF WALL 1A EL. 691.73
BOTTOM OF WALL 1A EL. 692.07
BOTTOM OF WALL 1A EL. 692.40
BOTTOM OF WALL 1A EL. 692.69
BOTTOM OF WALL 1A EL. 692.96
BOTTOM OF WALL 1A EL. 693.20
BOTTOM OF WALL 1A EL. 693.40
BOTTOM OF WALL 1A EL. 693.57
BOTTOM OF WALL 1A EL. 693.72
BOTTOM OF WALL 1A EL. 693.84
BOTTOM OF WALL 1A EL. 693.97
BOTTOM OF WALL 1A EL. 694.10
EX. 12" STORM DRAIN TO REMAIN INVERT EL. 692.4 +/-
BOTTOM OF WALL 1A EL. 694.28

18 - 2'-0" DRILLED SHAFTS
12 - 2'-6" DRILLED SHAFTS
12 - 3'-0" DRILLED SHAFTS
26 - 3'-6" DRILLED SHAFTS

EXISTING GROUND ELEVATIONS AT BACK OF WALL
694.55 694.45 694.43 694.46 694.89 695.66 696.44 696.74 696.63 697.28 697.42 697.51 698.13 699.35 700.70 702.19 703.26 702.97 703.60 703.30

780 760 740 720 700 680 660 640 620 600

0 1 2 3 4 5

## ELEVATION
(STATIONING ALONG ℄ WALL 1A)

# SITE PLAN
# RETAINING WALL 1A

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 16
SHEET: P.783 TOTAL: P.1135

MODEL: Sheet larger PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WP001.dgn

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x36
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x62
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W24x94
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W30x124
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x130
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x169

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50 IN ACCORDANCE WITH C&MS 711.01. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 24" DIAMETER ABOVE BEDROCK, AS PER PLAN
## ITEM 524 - DRILLED SHAFT, 30" DIAMETER ABOVE BEDROCK, AS PER PLAN
## ITEM 524 - DRILLED SHAFT, 36" DIAMETER ABOVE BEDROCK, AS PER PLAN
## ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 16

SHEET P.784 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WN001.dgn

## *ESTIMATED QUANTITIES (WALL 1A)*

| *ITEM* | *EXTENSION* | *TOTAL* | *UNIT* | *DESCRIPTION* | *SEE SHEET* |
|---|---|---|---|---|---|
| | | | | | |
| *503* | *21101* | | *CY* | *UNCLASSIFIED EXCAVATION, AS PER PLAN* | *13* |
| | | | | | |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W16X36* | *2* |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W21X62* | *2* |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W24X94* | *2* |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W30X124* | *2* |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W33X130* | *2* |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W33X169* | *2* |
| | | | | | |
| *509* | *10000* | | *LB* | *EPOXY COATED REINFORCING STEEL* | |
| | | | | | |
| *511* | *46013* | | *CY* | *CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING* | *15* |
| | | | | | |
| *512* | *10001* | | *SY* | *SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)* | *2* |
| *512* | *10101* | | *SY* | *SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN* | *2* |
| *512* | *33001* | | *SY* | *TYPE 2 WATERPROOFING, AS PER PLAN* | *2* |
| | | | | | |
| *513* | *20001* | | *EACH* | *WELDED STUD SHEAR CONNECTORS, AS PER PLAN* | *2* |
| | | | | | |
| *516* | *13600* | | *SF* | *1" PREFORMED EXPANSION JOINT FILLER* | |
| *516* | *13900* | | *SF* | *2" PREFORMED EXPANSION JOINT FILLER* | |
| | | | | | |
| *518* | *20000* | | *SY* | *PREFABRICATED GEOCOMPOSITE DRAIN* | |
| *518* | *21200* | | *CY* | *POROUS BACKFILL WITH GEOTEXTILE FABRIC* | |
| | | | | | |
| *524* | *94503* | | *FT* | *DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN* | *2* |
| *524* | *94603* | | *FT* | *DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN* | *2* |
| *524* | *94703* | | *FT* | *DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK, AS PER PLAN* | *2* |
| *524* | *94803* | | *FT* | *DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN* | *2* |
| | | | | | |
| *SPECIAL* | *53051020* | | *SF* | *RETAINING WALL, TIMBER LAGGING* | *2* |
| | | | | | |

ESTIMATED QUANTITIES
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 16

SHEET P.785 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:24 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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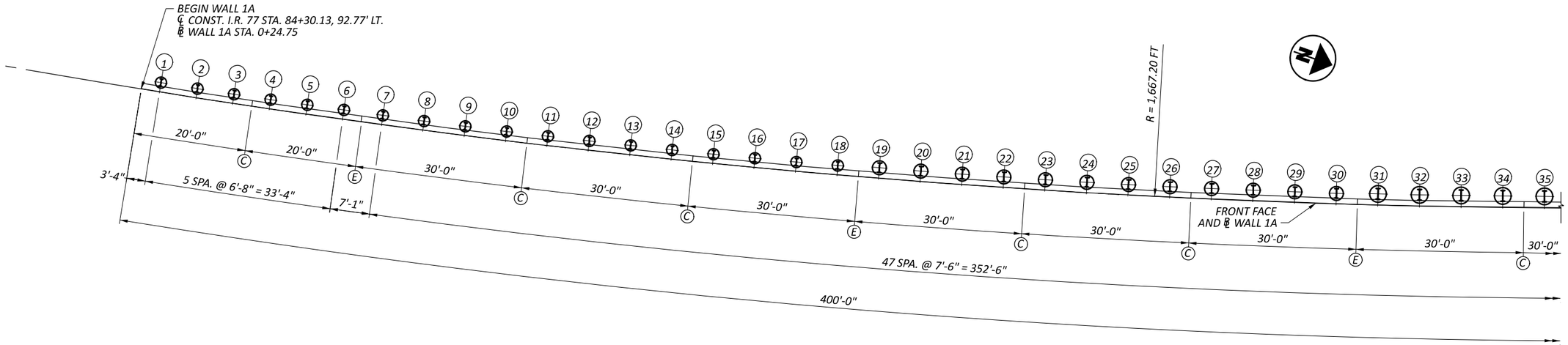
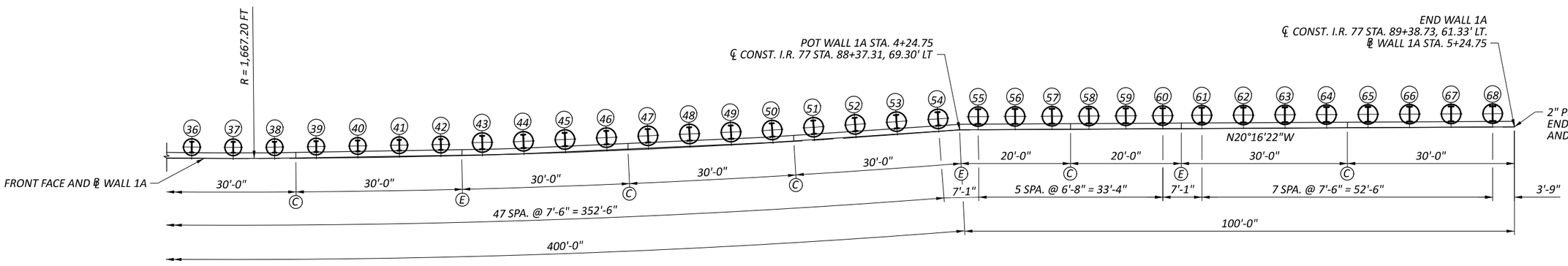
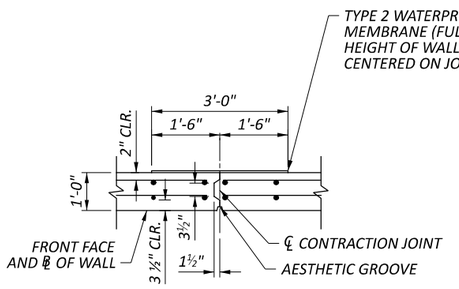


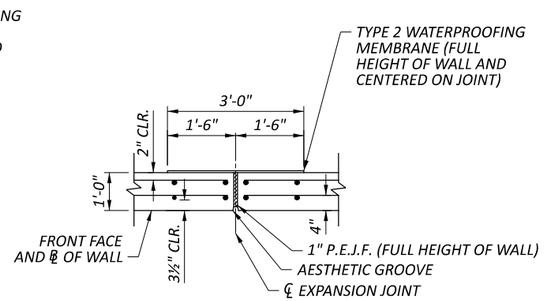




## GENERAL PLAN

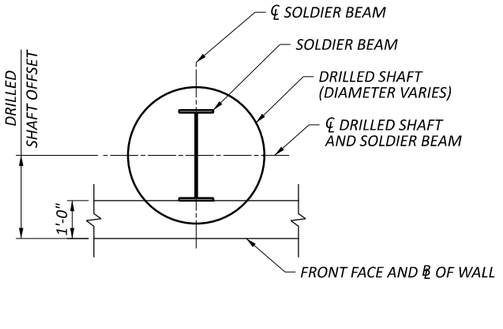
*(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)*




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL

### LEGEND:

- ⊥ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

### NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEET 5/16 THRU 12/16.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 14/16.
3. FOR AESTHETIC GROOVE DETAILS, SEE SHEET 15/16.

# PILE LAYOUT AND GEOMETRY SCHEMATIC RETAINING WALL 1A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 4 TOTAL: 16
SHEET: P.786 TOTAL: P.1135

CUY-77-11.41 - PART 1

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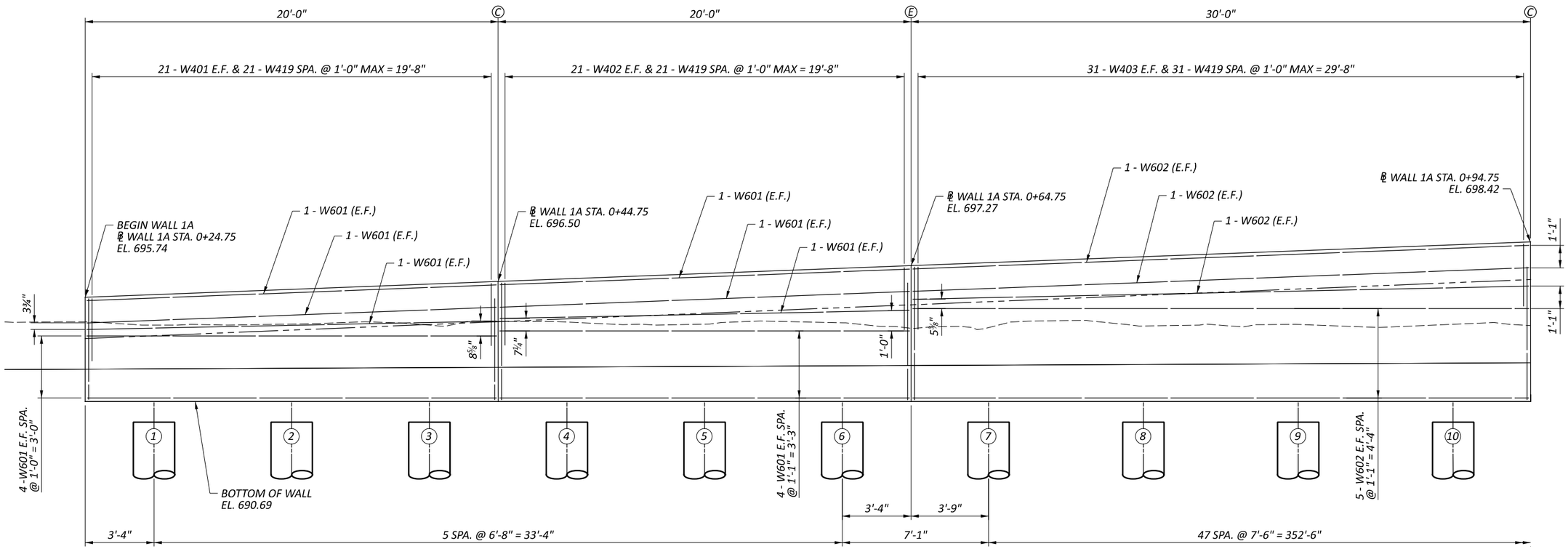


## PARTIAL ELEVATION

### LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

# WALL ELEVATION
# RETAINING WALL 1A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 5 / 16 |
| SHEET / TOTAL | P.787 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: panels 1-3 sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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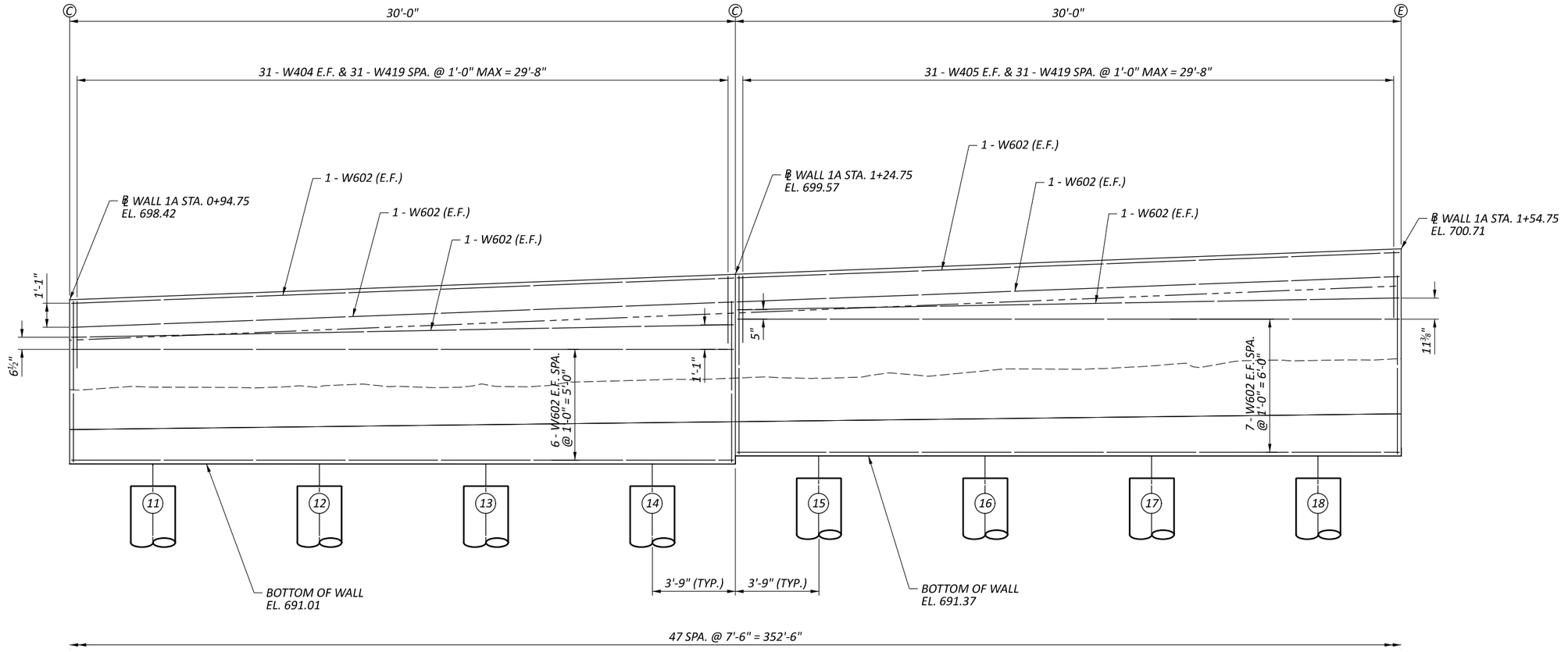


*PARTIAL ELEVATION*

*LEGEND:*

- Ⓝ - *DRILLED SHAFT NUMBER*
- Ⓒ - *CONTRACTION JOINT*
- Ⓔ - *EXPANSION JOINT*

*NOTES:*

1. *ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.*
2. *FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.*

# WALL ELEVATION
# RETAINING WALL 1A

CUY-77-11.41 - PART 1

MODEL: panels 4-5 sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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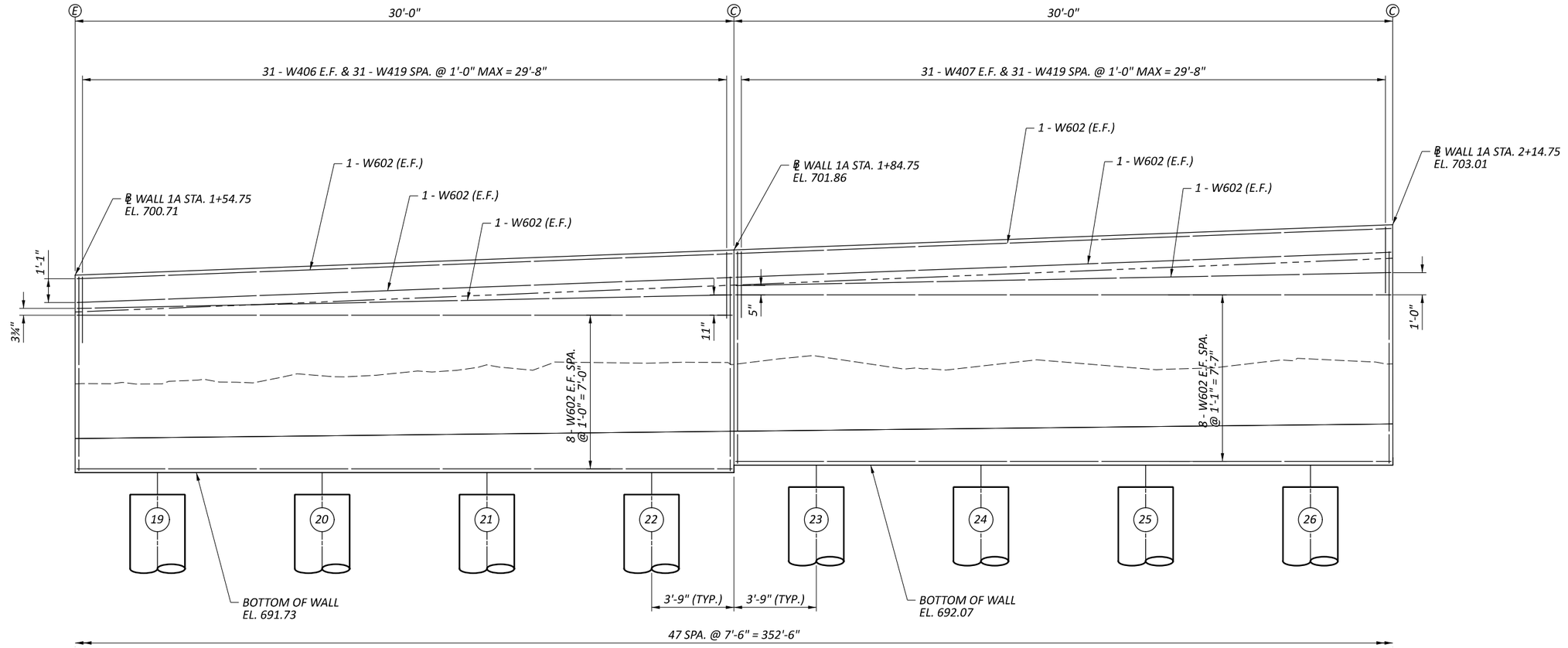
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 16 |
| SHEET / TOTAL | P.788 / P.1135 |




## PARTIAL ELEVATION

### LEGEND:

- Ⓔ - EXPANSION JOINT
- Ⓒ - CONTRACTION JOINT
- (#) - DRILLED SHAFT NUMBER

### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

# WALL ELEVATION
# RETAINING WALL 1A

CUY-77-11.41 - PART 1

MODEL: panels 6-7 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 16 |
| SHEET / TOTAL | P.789 / P.1135 |

MODEL: panels 8-9 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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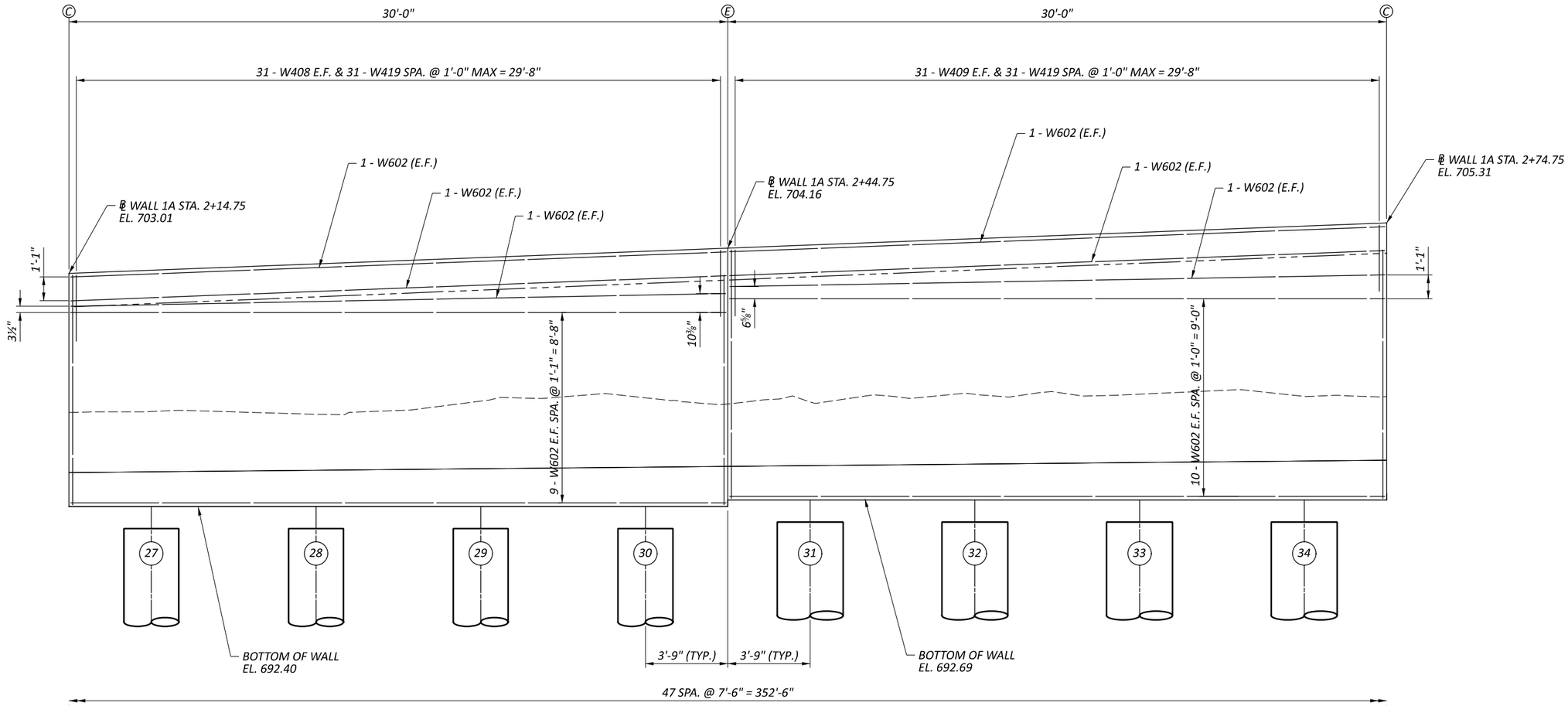
CUY-77-11.41 - PART 1




*PARTIAL ELEVATION*

*LEGEND:*

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

*NOTES:*

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

# WALL ELEVATION
# RETAINING WALL 1A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 16 |
| SHEET / TOTAL | P.790 / P.1135 |

MODEL: panels 10-11 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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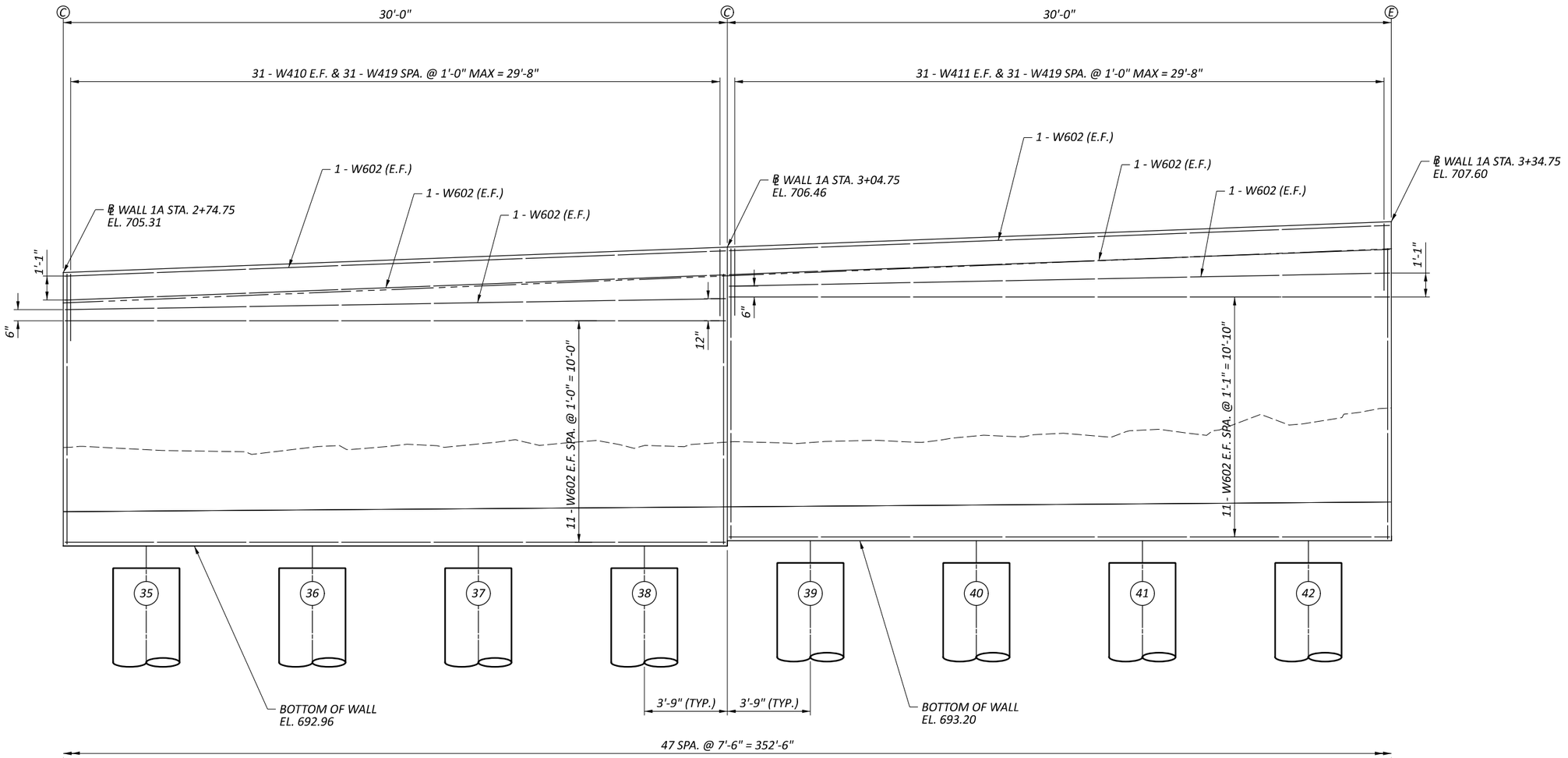



## PARTIAL ELEVATION

### LEGEND:

- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

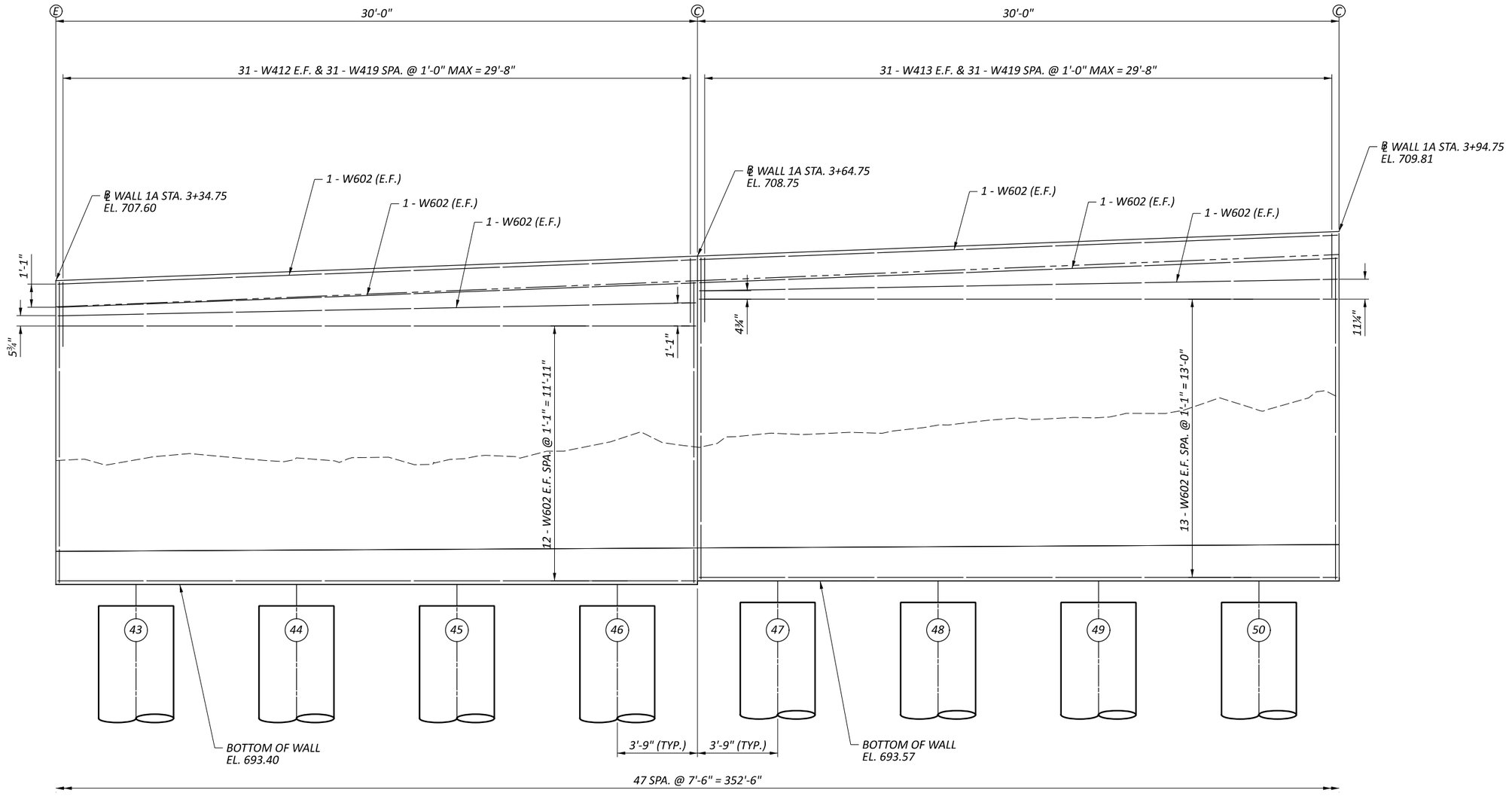
### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

# WALL ELEVATION
# RETAINING WALL 1A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 9 |
| TOTAL | 16 |
| SHEET | P.791 |
| TOTAL | P.1135 |




*PARTIAL ELEVATION*

*LEGEND:*

- Ⓝ - *DRILLED SHAFT NUMBER*
- Ⓒ - *CONTRACTION JOINT*
- Ⓔ - *EXPANSION JOINT*

*NOTES:*

1. *ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.*
2. *FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.*

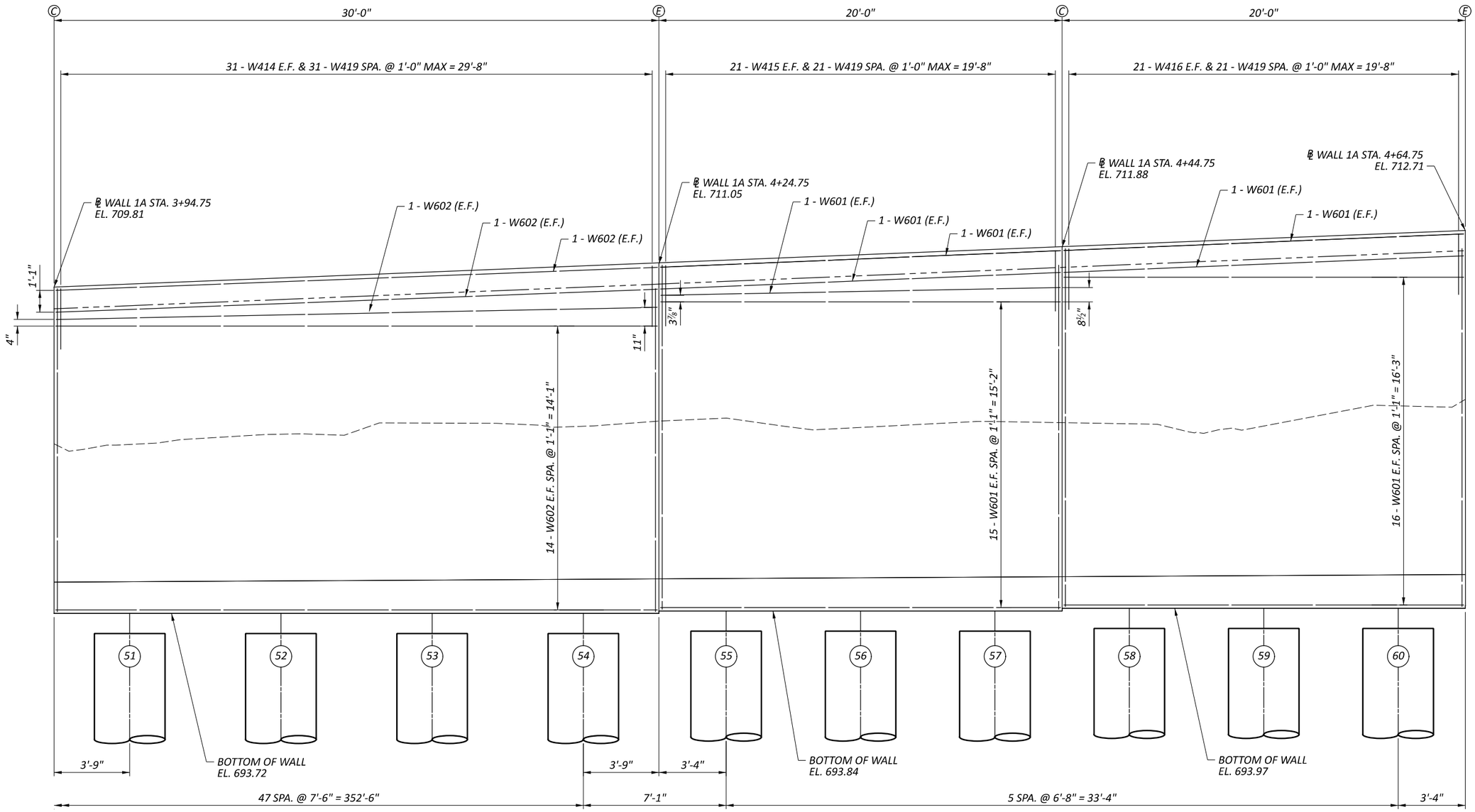
# WALL ELEVATION
# RETAINING WALL 1A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 10 / 16 |
| SHEET / TOTAL | P.792 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: panels 12-13 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WE001.dgn




*PARTIAL ELEVATION*

*LEGEND:*

- Ⓝ - *DRILLED SHAFT NUMBER*
- Ⓒ - *CONTRACTION JOINT*
- Ⓔ - *EXPANSION JOINT*

*NOTES:*

1. *ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.*
2. *FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.*

# WALL ELEVATION
# RETAINING WALL 1A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 11 |
| TOTAL | 16 |
| SHEET | P.793 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: panels 14-16 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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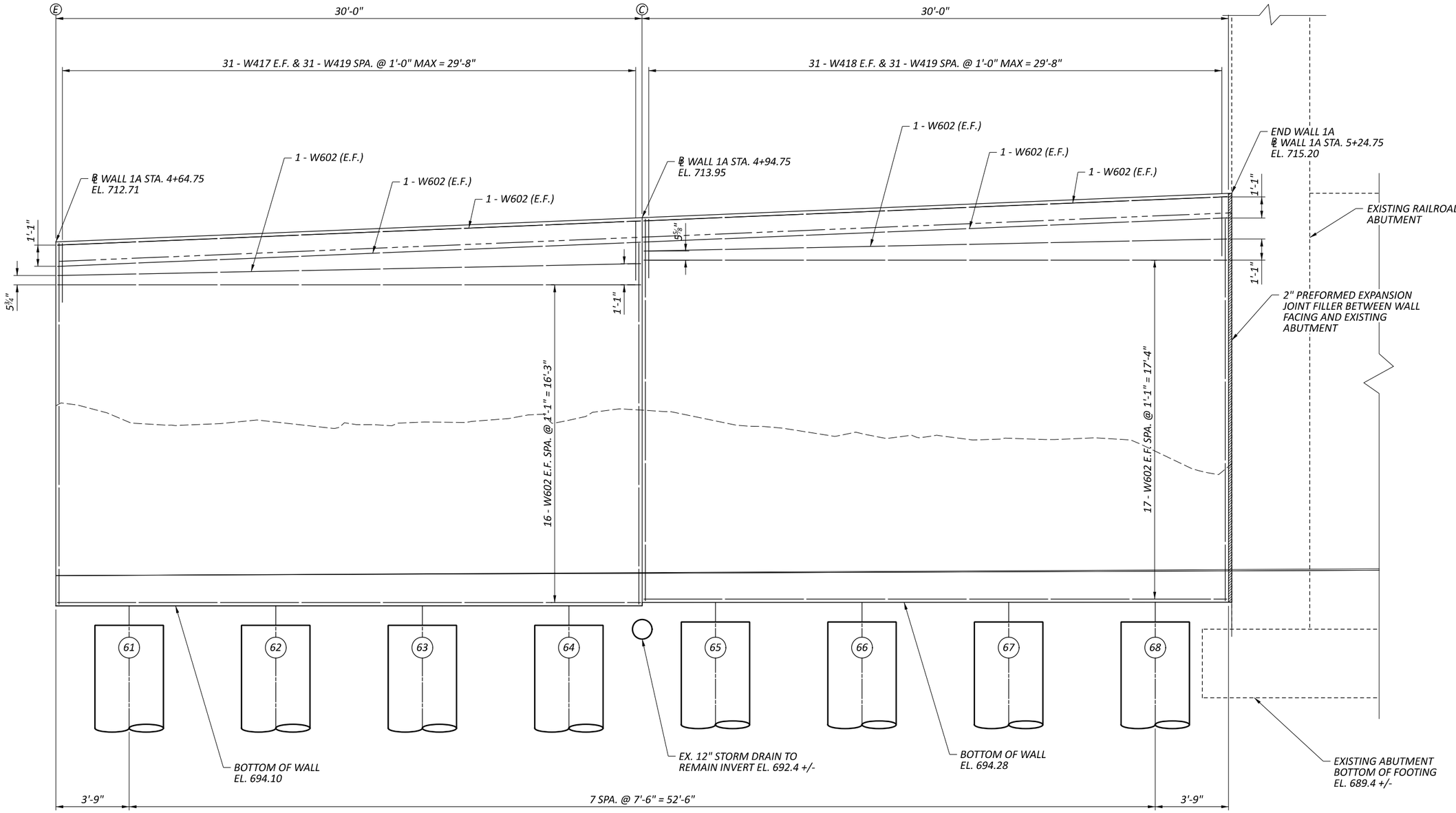



*PARTIAL ELEVATION*

## *LEGEND:*

- Ⓝ - *DRILLED SHAFT NUMBER*
- Ⓒ - *CONTRACTION JOINT*
- Ⓔ - *EXPANSION JOINT*

## *NOTES:*

1. *ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.*
2. *FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.*

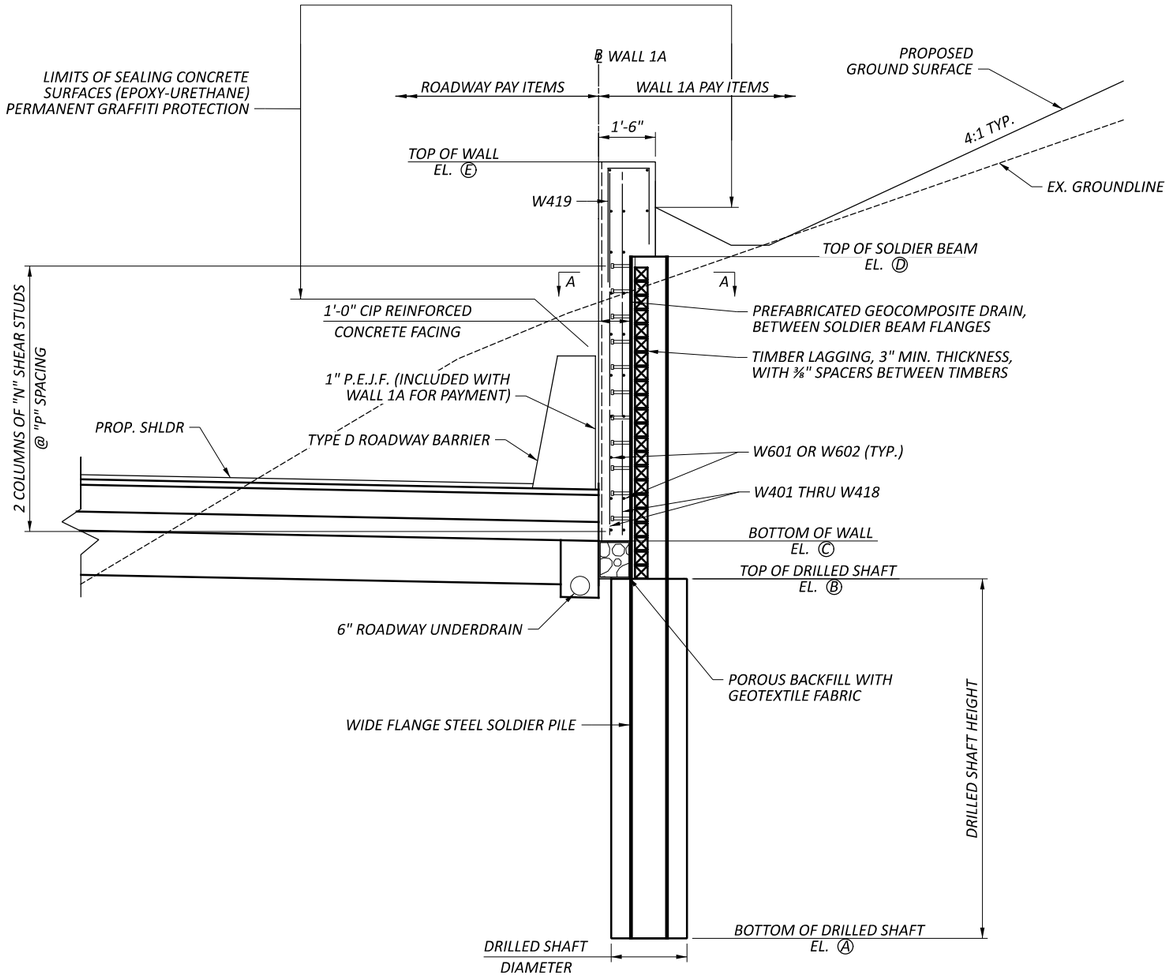
# WALL ELEVATION
# RETAINING WALL 1A

CUY-77-11.41 - PART 1

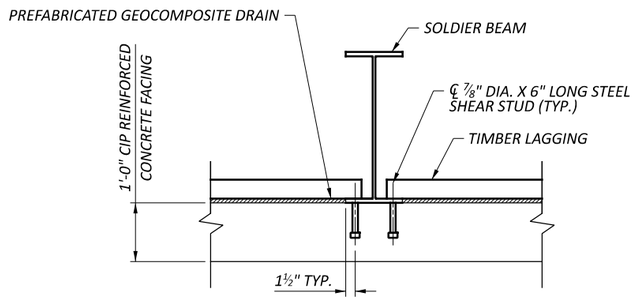
MODEL: panels 17-18 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WE001.dgn

DESIGN AGENCY
TRC

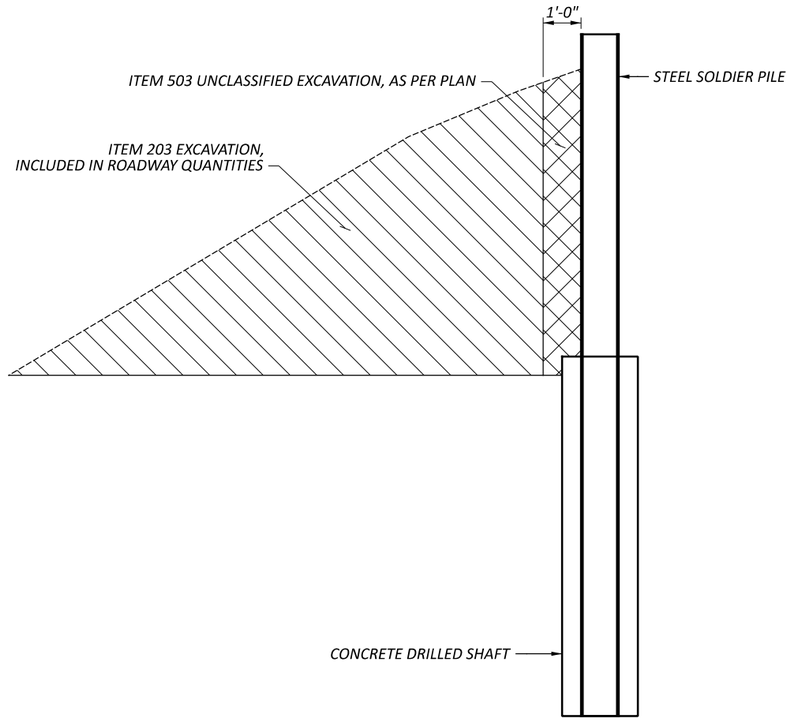
| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 12 / 16 |
| SHEET / TOTAL | P.794 / P.1135 |




## WALL 1A TYPICAL SECTION




## SECTION A-A




## EXCAVATION SCHEMATIC

### LEGEND

503 UNCLASSIFIED EXCAVATION

203 EXCAVATION

### NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 14/16.

# TYPICAL SECTION RETAINING WALL 1A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET 13 | TOTAL 16

SHEET P.795 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:55:57 AM PLTDRV: OHDOT_PDF.plcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_W001.dgn

| DRILLED SHAFT NUMBER | WALL 1A STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00+28.08 | 1.66 LT | 679.69 | 689.69 | 690.69 | 691.87 | 695.87 | 12.18 | 24.00 | W16X36 | 2 | 8.00 in |
| 2 | 00+34.75 | 1.66 LT | 679.69 | 689.69 | 690.69 | 692.15 | 696.12 | 12.46 | 24.00 | W16X36 | 2 | 11.25 in |
| 3 | 00+41.42 | 1.66 LT | 679.69 | 689.69 | 690.69 | 692.42 | 696.38 | 12.73 | 24.00 | W16X36 | 3 | 7.25 in |
| 4 | 00+48.08 | 1.66 LT | 679.69 | 689.69 | 690.69 | 692.69 | 696.63 | 13.00 | 24.00 | W16X36 | 3 | 8.75 in |
| 5 | 00+54.75 | 1.66 LT | 679.69 | 689.69 | 690.69 | 692.96 | 696.89 | 13.27 | 24.00 | W16X36 | 3 | 10.50 in |
| 6 | 00+61.42 | 1.66 LT | 679.69 | 689.69 | 690.69 | 693.23 | 697.14 | 13.54 | 24.00 | W16X36 | 4 | 8.00 in |
| 7 | 00+68.50 | 1.66 LT | 674.69 | 689.69 | 690.69 | 693.52 | 697.41 | 18.83 | 24.00 | W16X36 | 4 | 9.25 in |
| 8 | 00+76.00 | 1.66 LT | 674.69 | 689.69 | 690.69 | 693.83 | 697.70 | 19.14 | 24.00 | W16X36 | 4 | 10.50 in |
| 9 | 00+83.50 | 1.66 LT | 674.69 | 689.69 | 690.69 | 694.13 | 697.99 | 19.44 | 24.00 | W16X36 | 4 | 11.75 in |
| 10 | 00+91.00 | 1.66 LT | 674.69 | 689.69 | 690.69 | 694.44 | 698.27 | 19.75 | 24.00 | W16X36 | 5 | 9.50 in |
| 11 | 00+98.50 | 1.66 LT | 675.01 | 690.01 | 691.01 | 694.75 | 698.56 | 19.74 | 24.00 | W16X36 | 5 | 9.50 in |
| 12 | 01+06.00 | 1.66 LT | 675.01 | 690.01 | 691.01 | 695.05 | 698.85 | 20.04 | 24.00 | W16X36 | 5 | 10.50 in |
| 13 | 01+13.50 | 1.66 LT | 675.01 | 690.01 | 691.01 | 695.36 | 699.14 | 20.35 | 24.00 | W16X36 | 5 | 11.50 in |
| 14 | 01+21.00 | 1.66 LT | 675.01 | 690.01 | 691.01 | 695.66 | 699.42 | 20.65 | 24.00 | W16X36 | 6 | 9.75 in |
| 15 | 01+28.50 | 1.66 LT | 673.37 | 690.37 | 691.37 | 695.97 | 699.71 | 22.60 | 24.00 | W16X36 | 6 | 9.75 in |
| 16 | 01+36.00 | 1.66 LT | 673.37 | 690.37 | 691.37 | 696.27 | 700.00 | 22.90 | 24.00 | W16X36 | 6 | 10.50 in |
| 17 | 01+43.50 | 1.66 LT | 673.37 | 690.37 | 691.37 | 696.58 | 700.28 | 23.21 | 24.00 | W16X36 | 6 | 11.25 in |
| 18 | 01+51.00 | 1.66 LT | 673.37 | 690.37 | 691.37 | 696.89 | 700.57 | 23.52 | 24.00 | W16X36 | 7 | 10.00 in |
| 19 | 01+58.50 | 1.88 LT | 677.23 | 690.73 | 691.73 | 697.19 | 700.86 | 19.96 | 30.00 | W21X62 | 6 | 11.75 in |
| 20 | 01+66.00 | 1.88 LT | 677.23 | 690.73 | 691.73 | 697.50 | 701.15 | 20.27 | 30.00 | W21X62 | 7 | 10.50 in |
| 21 | 01+73.50 | 1.88 LT | 677.23 | 690.73 | 691.73 | 697.80 | 701.43 | 20.57 | 30.00 | W21X62 | 7 | 11.00 in |
| 22 | 01+81.00 | 1.88 LT | 677.23 | 690.73 | 691.73 | 698.11 | 701.72 | 20.88 | 30.00 | W21X62 | 7 | 11.75 in |
| 23 | 01+88.50 | 1.88 LT | 673.57 | 691.07 | 692.07 | 698.42 | 702.01 | 24.85 | 30.00 | W21X62 | 7 | 11.50 in |
| 24 | 01+96.00 | 1.88 LT | 673.57 | 691.07 | 692.07 | 698.72 | 702.29 | 25.15 | 30.00 | W21X62 | 8 | 10.50 in |
| 25 | 02+03.50 | 1.88 LT | 673.57 | 691.07 | 692.07 | 699.03 | 702.58 | 25.46 | 30.00 | W21X62 | 8 | 11.00 in |
| 26 | 02+11.00 | 1.88 LT | 673.57 | 691.07 | 692.07 | 699.33 | 702.87 | 25.76 | 30.00 | W21X62 | 8 | 11.50 in |
| 27 | 02+18.50 | 1.88 LT | 673.90 | 691.40 | 692.40 | 699.64 | 703.15 | 25.74 | 30.00 | W21X62 | 8 | 11.50 in |
| 28 | 02+26.00 | 1.88 LT | 673.90 | 691.40 | 692.40 | 699.94 | 703.44 | 26.04 | 30.00 | W21X62 | 9 | 10.50 in |
| 29 | 02+33.50 | 1.88 LT | 673.90 | 691.40 | 692.40 | 700.25 | 703.73 | 26.35 | 30.00 | W21X62 | 9 | 11.00 in |
| 30 | 02+41.00 | 1.88 LT | 673.90 | 691.40 | 692.40 | 700.56 | 704.02 | 26.66 | 30.00 | W21X62 | 9 | 11.25 in |
| 31 | 02+48.50 | 2.01 LT | 674.69 | 691.69 | 692.69 | 700.86 | 704.30 | 26.17 | 36.00 | W24X94 | 9 | 11.50 in |
| 32 | 02+56.00 | 2.01 LT | 674.69 | 691.69 | 692.69 | 701.17 | 704.59 | 26.48 | 36.00 | W24X94 | 9 | 11.75 in |
| 33 | 02+63.50 | 2.01 LT | 674.69 | 691.69 | 692.69 | 701.47 | 704.88 | 26.78 | 36.00 | W24X94 | 10 | 11.00 in |
| 34 | 02+71.00 | 2.01 LT | 674.69 | 691.69 | 692.69 | 701.78 | 705.16 | 27.09 | 36.00 | W24X94 | 10 | 11.25 in |
| 35 | 02+78.50 | 2.01 LT | 671.96 | 691.96 | 692.96 | 702.09 | 705.45 | 30.13 | 36.00 | W24X94 | 10 | 11.50 in |
| 36 | 02+86.00 | 2.01 LT | 671.96 | 691.96 | 692.96 | 702.39 | 705.74 | 30.43 | 36.00 | W24X94 | 10 | 11.75 in |
| 37 | 02+93.50 | 2.01 LT | 671.96 | 691.96 | 692.96 | 702.70 | 706.03 | 30.74 | 36.00 | W24X94 | 11 | 11.00 in |
| 38 | 03+01.00 | 2.01 LT | 671.96 | 691.96 | 692.96 | 703.00 | 706.31 | 31.04 | 36.00 | W24X94 | 11 | 11.25 in |
| 39 | 03+08.50 | 2.01 LT | 672.20 | 692.20 | 693.20 | 703.31 | 706.60 | 31.11 | 36.00 | W24X94 | 11 | 11.50 in |
| 40 | 03+16.00 | 2.01 LT | 672.20 | 692.20 | 693.20 | 703.62 | 706.89 | 31.42 | 36.00 | W24X94 | 11 | 11.75 in |
| 41 | 03+23.50 | 2.01 LT | 672.20 | 692.20 | 693.20 | 703.92 | 707.17 | 31.72 | 36.00 | W24X94 | 12 | 11.00 in |
| 42 | 03+31.00 | 2.01 LT | 672.20 | 692.20 | 693.20 | 704.23 | 707.46 | 32.03 | 36.00 | W24X94 | 12 | 11.25 in |
| 43 | 03+38.50 | 2.26 LT | 674.90 | 692.40 | 693.40 | 704.53 | 707.75 | 29.63 | 42.00 | W30X124 | 12 | 11.50 in |
| 44 | 03+46.00 | 2.26 LT | 674.90 | 692.40 | 693.40 | 704.84 | 708.04 | 29.94 | 42.00 | W30X124 | 12 | 11.75 in |
| 45 | 03+53.50 | 2.26 LT | 674.90 | 692.40 | 693.40 | 705.14 | 708.32 | 30.24 | 42.00 | W30X124 | 13 | 11.00 in |
| 46 | 03+61.00 | 2.26 LT | 674.90 | 692.40 | 693.40 | 705.45 | 708.61 | 30.55 | 42.00 | W30X124 | 13 | 11.50 in |
| 47 | 03+68.50 | 2.26 LT | 673.07 | 692.57 | 693.57 | 705.76 | 708.90 | 32.69 | 42.00 | W30X124 | 13 | 11.50 in |
| 48 | 03+76.00 | 2.26 LT | 673.07 | 692.57 | 693.57 | 706.06 | 709.18 | 32.99 | 42.00 | W30X124 | 13 | 11.75 in |
| 49 | 03+83.50 | 2.26 LT | 673.07 | 692.57 | 693.57 | 706.37 | 709.47 | 33.30 | 42.00 | W30X124 | 14 | 11.25 in |
| 50 | 03+91.00 | 2.26 LT | 673.07 | 692.57 | 693.57 | 706.67 | 709.76 | 33.60 | 42.00 | W30X124 | 14 | 11.50 in |
| 51 | 03+98.50 | 2.26 LT | 673.22 | 692.72 | 693.72 | 706.98 | 710.05 | 33.76 | 42.00 | W30X124 | 14 | 11.75 in |
| 52 | 04+06.00 | 2.26 LT | 673.22 | 692.72 | 693.72 | 707.29 | 710.33 | 34.07 | 42.00 | W30X124 | 15 | 11.00 in |
| 53 | 04+13.50 | 2.26 LT | 673.22 | 692.72 | 693.72 | 707.59 | 710.62 | 34.37 | 42.00 | W30X124 | 15 | 11.25 in |
| 54 | 04+21.00 | 2.26 LT | 673.22 | 692.72 | 693.72 | 707.90 | 710.91 | 34.68 | 42.00 | W30X124 | 15 | 11.50 in |
| 55 | 04+28.08 | 2.38 LT | 673.34 | 692.84 | 693.84 | 708.19 | 711.19 | 34.85 | 42.00 | W33X130 | 15 | 11.75 in |
| 56 | 04+34.75 | 2.38 LT | 673.34 | 692.84 | 693.84 | 708.46 | 711.46 | 35.12 | 42.00 | W33X130 | 16 | 11.25 in |
| 57 | 04+41.42 | 2.38 LT | 673.34 | 692.84 | 693.84 | 708.74 | 711.74 | 35.40 | 42.00 | W33X130 | 16 | 11.50 in |
| 58 | 04+48.08 | 2.38 LT | 672.97 | 692.97 | 693.97 | 709.02 | 712.02 | 36.05 | 42.00 | W33X130 | 16 | 11.50 in |
| 59 | 04+54.75 | 2.38 LT | 672.97 | 692.97 | 693.97 | 709.29 | 712.29 | 36.32 | 42.00 | W33X130 | 16 | 11.75 in |
| 60 | 04+61.42 | 2.38 LT | 672.97 | 692.97 | 693.97 | 709.57 | 712.57 | 36.60 | 42.00 | W33X130 | 17 | 11.25 in |
| 61 | 04+68.50 | 2.41 LT | 672.10 | 693.10 | 694.10 | 709.87 | 712.87 | 37.77 | 42.00 | W33X169 | 17 | 11.25 in |
| 62 | 04+76.00 | 2.41 LT | 672.10 | 693.10 | 694.10 | 710.18 | 713.18 | 38.08 | 42.00 | W33X169 | 17 | 11.50 in |
| 63 | 04+83.50 | 2.41 LT | 672.10 | 693.10 | 694.10 | 710.49 | 713.49 | 38.39 | 42.00 | W33X169 | 17 | 11.75 in |
| 64 | 04+91.00 | 2.41 LT | 672.10 | 693.10 | 694.10 | 710.80 | 713.80 | 38.70 | 42.00 | W33X169 | 18 | 11.25 in |
| 65 | 04+98.50 | 2.41 LT | 669.28 | 693.28 | 694.28 | 711.11 | 714.11 | 41.83 | 42.00 | W33X169 | 18 | 11.50 in |
| 66 | 05+06.00 | 2.41 LT | 669.28 | 693.28 | 694.28 | 711.42 | 714.42 | 42.14 | 42.00 | W33X169 | 18 | 11.50 in |
| 67 | 05+13.50 | 2.41 LT | 669.28 | 693.28 | 694.28 | 711.73 | 714.73 | 42.45 | 42.00 | W33X169 | 18 | 11.75 in |
| 68 | 05+21.00 | 2.41 LT | 669.28 | 693.28 | 694.28 | 712.04 | 715.04 | 42.76 | 42.00 | W33X169 | 19 | 11.50 in |

## NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4//16.
2. FOR TYPICAL WALL SECTION, SEE SHEET 13/16.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/16 TO 12/16.

# PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE
# RETAINING WALL 1A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 14 | TOTAL: 16
SHEET: P.796 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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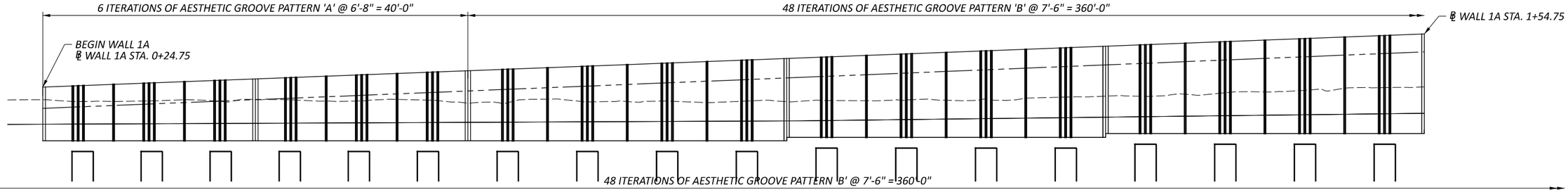
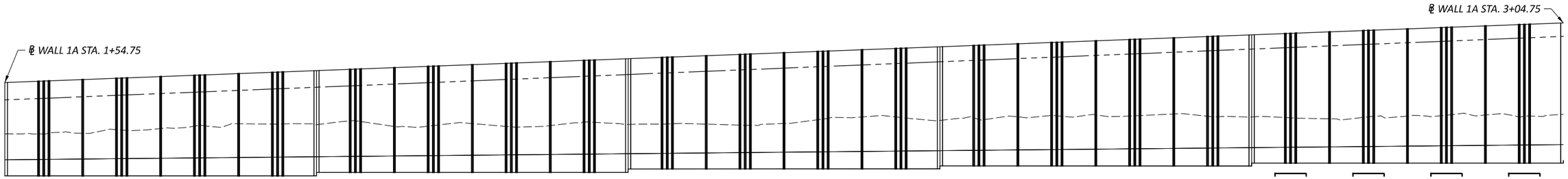
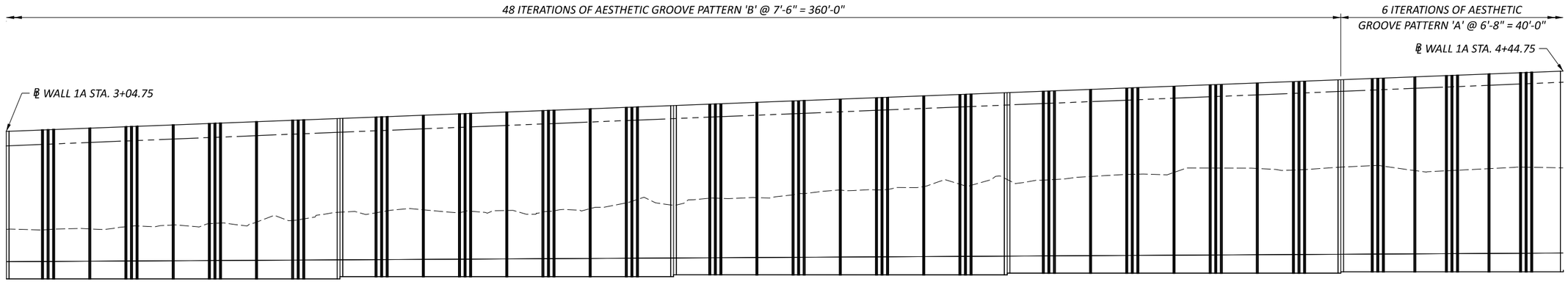
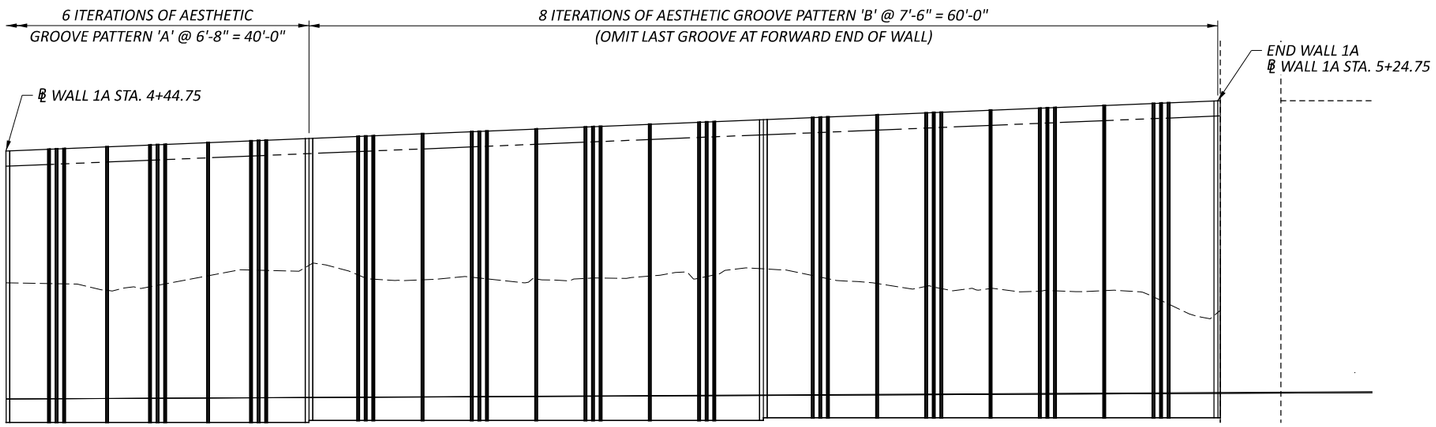
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WT001.dgn

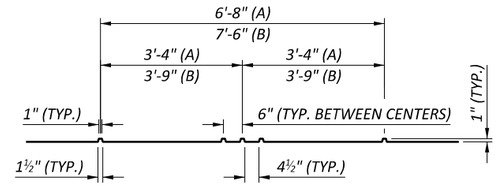



## AESTHETIC WALL FACING ELEVATION




## AESTHETIC VERTICAL GROOVE DETAIL

## LEGEND:

(A) - AESTHETIC GROOVE PATTERN 'A'
(B) - AESTHETIC GROOVE PATTERN 'B'

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. THE AESTHETIC VERTICAL GROOVE PATTERN MAY TERMINATE WITHIN THE FACING HEIGHT BUT AT MINIMUM MUST EXTEND FROM THE TOP TO 4'-0" FROM THE BOTTOM OF WALL.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
4. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/16 THRU 12/16.

# AESTHETIC DETAILS RETAINING WALL 1A

CUY-77-11.41 - PART 1

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DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 15 | TOTAL 16
SHEET P.797 | TOTAL P.1135

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| W401 | 42 | 4'-10" | 136 | STR | | | | | | | |
| W402 | 42 | 5'-7" | 157 | STR | | | | | | | |
| W403 | 62 | 6'-4" | 262 | STR | | | | | | | |
| W404 | 62 | 7'-2" | 297 | STR | | | | | | | |
| W405 | 62 | 8'-0" | 331 | STR | | | | | | | |
| W406 | 62 | 8'-9" | 362 | STR | | | | | | | |
| W407 | 62 | 9'-7" | 397 | STR | | | | | | | |
| W408 | 62 | 10'-5" | 431 | STR | | | | | | | |
| W409 | 62 | 11'-3" | 466 | STR | | | | | | | |
| W410 | 62 | 12'-2" | 504 | STR | | | | | | | |
| W411 | 62 | 13'-0" | 538 | STR | | | | | | | |
| W412 | 62 | 14'-0" | 580 | STR | | | | | | | |
| W413 | 62 | 15'-0" | 621 | STR | | | | | | | |
| W414 | 62 | 15'-10" | 656 | STR | | | | | | | |
| W415 | 42 | 17'-0" | 477 | STR | | | | | | | |
| W416 | 42 | 17'-8" | 496 | STR | | | | | | | |
| W417 | 62 | 18'-5" | 763 | STR | | | | | | | |
| W418 | 62 | 19'-6" | 808 | STR | | | | | | | |
| W419 | 518 | 4'-0" | 1384 | 2 | 3'-1" | 1'-0" | 1'-6" | | | | |
| | | | | | | | | | | | |
| W601 | 100 | 19'-8" | 2954 | STR | | | | | | | |
| W602 | 378 | 29'-8" | 16843 | STR | | | | | | | |
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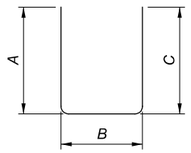
| | | TOTAL | 29,463 | | | | | | | | |




TYPE-2

## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

# REINFORCING STEEL LIST
# RETAINING WALL 1A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 16 | TOTAL 16

SHEET P.798 | TOTAL P.1135

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WL002.dgn

MODEL: WALL 1B BASELINE-2 - PLAN WALL 1B [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:56:44 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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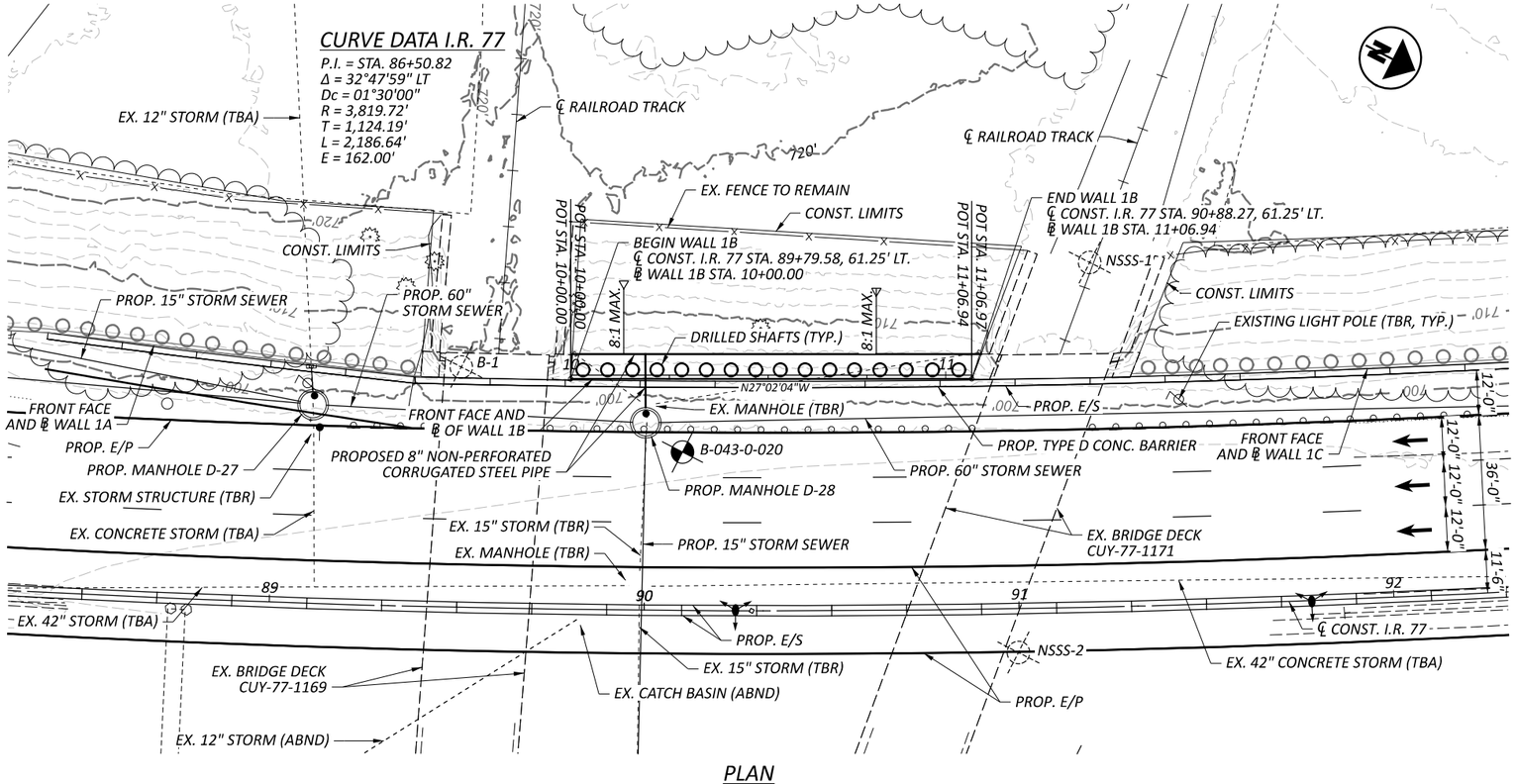
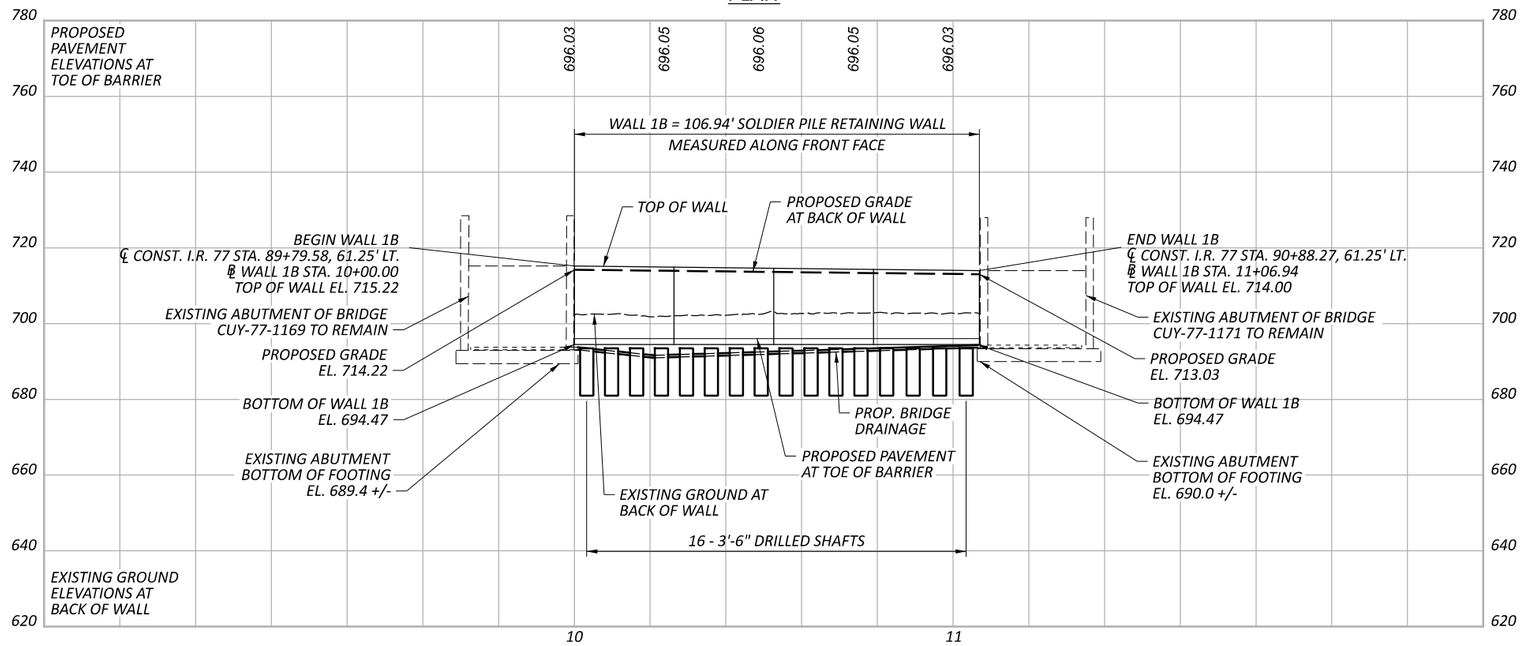



PLAN




ELEVATION

(STATIONING ALONG ℄ WALL 1B)

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR DRAINAGE DETAILS, SEE SHEET 4/10.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

# SITE PLAN
# RETAINING WALL 1B

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 1 | TOTAL: 10

SHEET: P.799 | TOTAL: P.1135

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN.YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x169

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 8/10. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 518 - 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING CORRUGATED STEEL DRAIN PIPES TO REPLACE EXISTING CONDUITS IN THE ABUTMENT DRAINAGE OF BRIDGES CUY-77-1169 AND CUY-77-1171 THAT ARE REMOVED FOR THE RETAINING WALL CONSTRUCTION. THE NEW CONDUITS SHALL BE CONNECTED TO THE REMAINING OUTLET PIPES AT THE BRIDGE ABUTMENTS AND TO THE DISCHARGE PORTAL IN THE COLLECTOR MANHOLE. THE STEEL CONDUITS SHALL BE PLACED AT THE PROPOSED ELEVATIONS IN THE PLANS FOR POSITIVE FLOW FROM THE BRIDGE ABUTMENTS TO THE MANHOLE.

THE CONTRACTOR SHALL ATTACH THE NEW CONDUITS TO THE EXISTING OUTLET PIPES WITH METAL BAND COUPLERS OR OTHER FASTENER DEVICES ACCEPTABLE TO THE ENGINEER. BEFORE CONNECTING THE NEW CONDUITS, THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM THE EXPOSED LENGTHS OF REMAINING ABUTMENT DRAIN PIPES AND VERIFY THAT THE EXISTING PIPES ARE UNOBSTRUCTED UP TO THE WINGWALLS.

ALL COUPLERS, ELBOWS, FITTINGS, AND JOINT SEALERS NECESSARY FOR THIS WORK SHALL BE INCIDENTAL TO THE STEEL PIPE COST. THE DEPARTMENT WILL PAY FOR ALL LABOR AND MATERIALS IN THE DRAIN PIPE INSTALLATION AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 518, 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECAILS, 707.01, AS PER PLAN.

## ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 10
SHEET P.800 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## *ESTIMATED QUANTITIES (WALL 1B)*

| *ITEM* | *EXTENSION* | *TOTAL* | *UNIT* | *DESCRIPTION* | *SEE SHEET* |
|---|---|---|---|---|---|
| | | | | | |
| *202* | *35100* | | *FT* | *PIPE REMOVED, 24" AND UNDER* | *4* |
| | | | | | |
| *503* | *21101* | | *CY* | *UNCLASSIFIED EXCAVATION, AS PER PLAN* | *8* |
| | | | | | |
| *507* | *00400* | | *FT* | *STEEL PILES, MISC.: SOLDIER PILES, W33X169* | *2* |
| | | | | | |
| *509* | *10000* | | *LB* | *EPOXY COATED REINFORCING STEEL* | |
| | | | | | |
| *511* | *46013* | | *CY* | *CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING* | *9* |
| | | | | | |
| *512* | *10001* | | *SY* | *SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)* | *2* |
| *512* | *10101* | | *SY* | *SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN* | *2* |
| *512* | *33001* | | *SY* | *TYPE 2 WATERPROOFING, AS PER PLAN* | *2* |
| | | | | | |
| *513* | *20001* | | *EACH* | *WELDED STUD SHEAR CONNECTORS, AS PER PLAN* | *2* |
| | | | | | |
| *516* | *13600* | | *SF* | *1" PREFORMED EXPANSION JOINT FILLER* | |
| *516* | *13900* | | *SF* | *2" PREFORMED EXPANSION JOINT FILLER* | |
| | | | | | |
| *518* | *20000* | | *SY* | *PREFABRICATED GEOCOMPOSITE DRAIN* | |
| *518* | *21200* | | *CY* | *POROUS BACKFILL WITH GEOTEXTILE FABRIC* | |
| *518* | *42301* | | *FT* | *8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN* | *2* |
| | | | | | |
| *524* | *94803* | | *FT* | *DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN* | *2* |
| | | | | | |
| *SPECIAL* | *53051020* | | *SF* | *RETAINING WALL, TIMBER LAGGING* | *2* |
| | | | | | |

ESTIMATED QUANTITIES
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 10

SHEET P.801 | TOTAL P.1135

CUY-77-11.41 - PART 1

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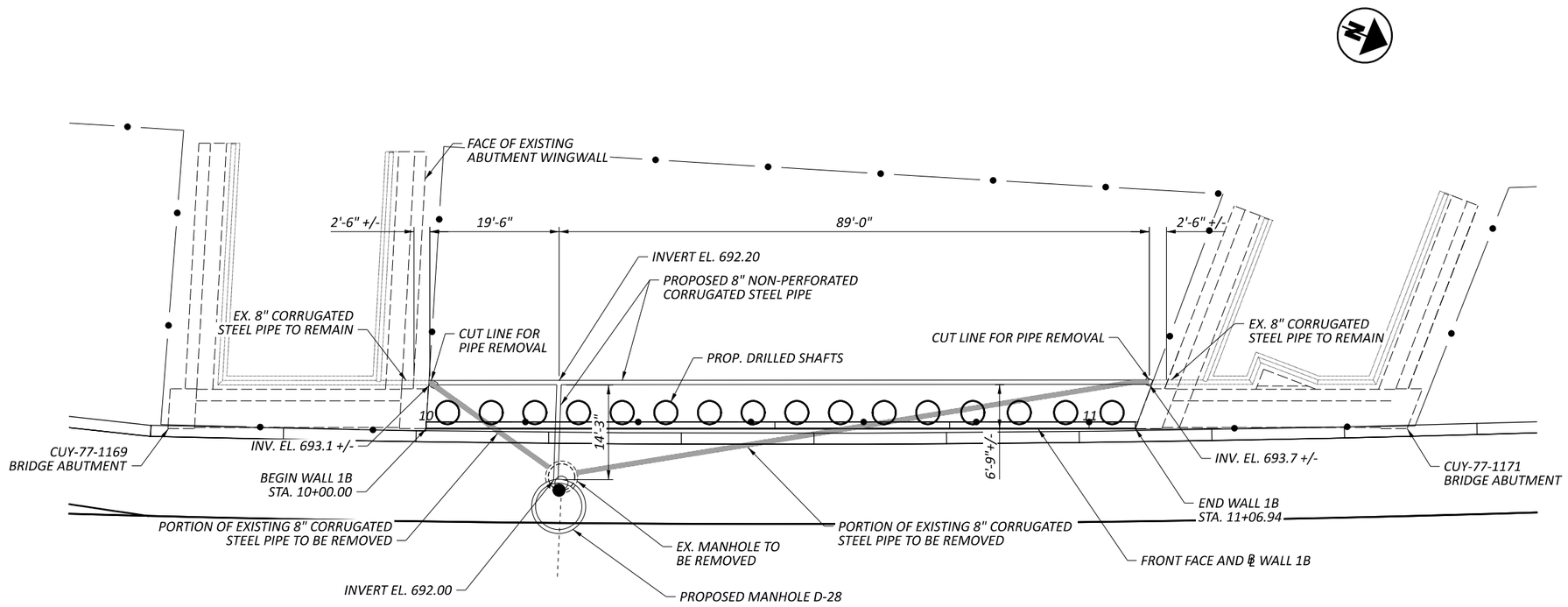


## DRAINAGE REMOVAL AND REPLACEMENT

*(FOR CUY-77-1169 BRIDGE AND CUY-77-1171 BRIDGE)*

**NOTES:**

1. THE TOTAL ESTIMATED LENGTH OF PIPE TO BE REMOVED IS 110.00'.
2. SEE DRAINAGE PLANS FOR INFORMATION ON MANHOLE REMOVAL AND CONSTRUCTION.

DRAINAGE DETAILS
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 10

SHEET P.802 | TOTAL P.1135

CUY-77-11.41 - PART 1

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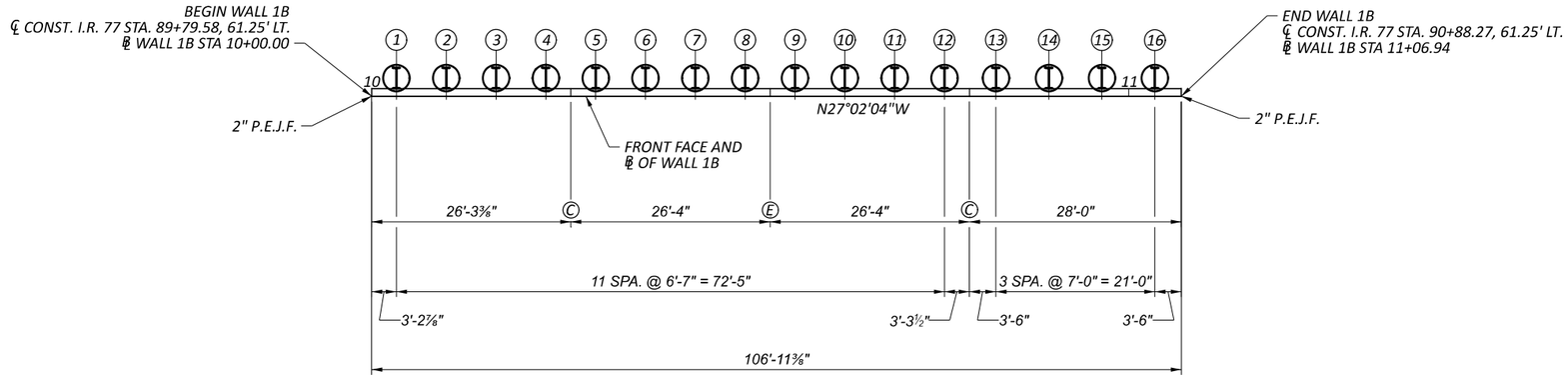
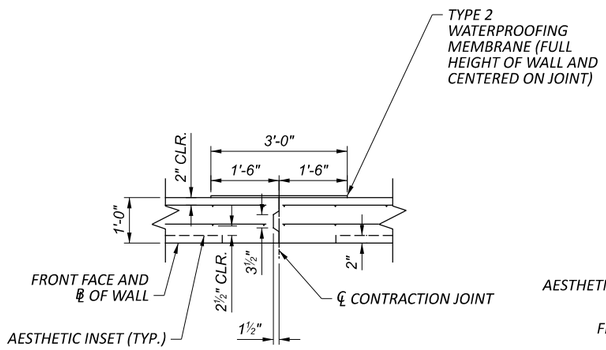
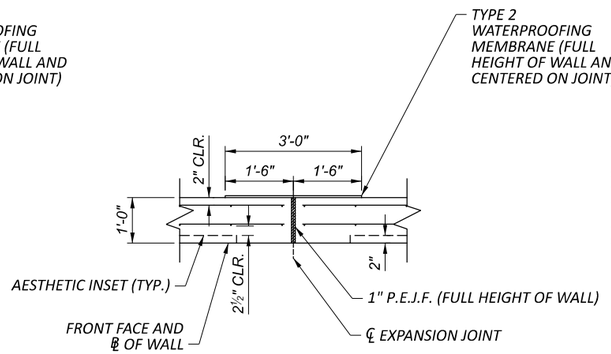



## GENERAL PLAN

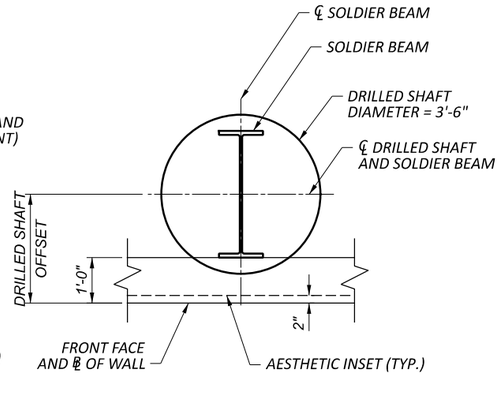
*(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)*




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL

## LEGEND:

- ① - DENOTED 3'-6" Ø DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 6/10 AND 7/10.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 8/10.
3. FOR AESTHETIC DETAILS, SEE SHEET 9/10.

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 1B

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 5 | TOTAL 10
SHEET P.803 | TOTAL P.1135

CUY-77-11.41 - PART 1

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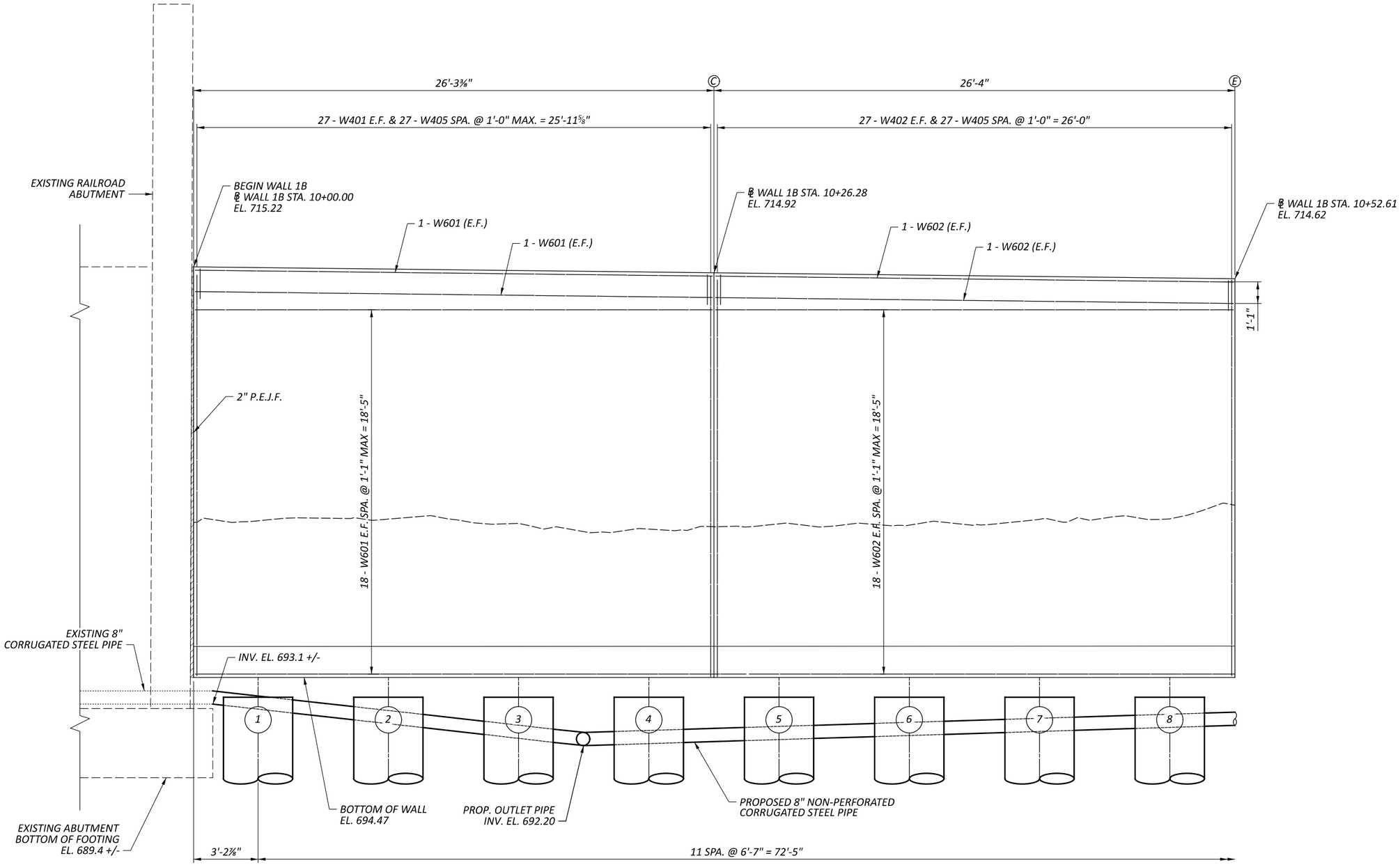


## PARTIAL ELEVATION

### LEGEND:

- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
3. FOR DRAINAGE DETAILS, SEE SHEET 4/10.

# WALL ELEVATION
# RETAINING WALL 1B

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 10 |
| SHEET / TOTAL | P.804 / P.1135 |

MODEL: panels 3-4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:57:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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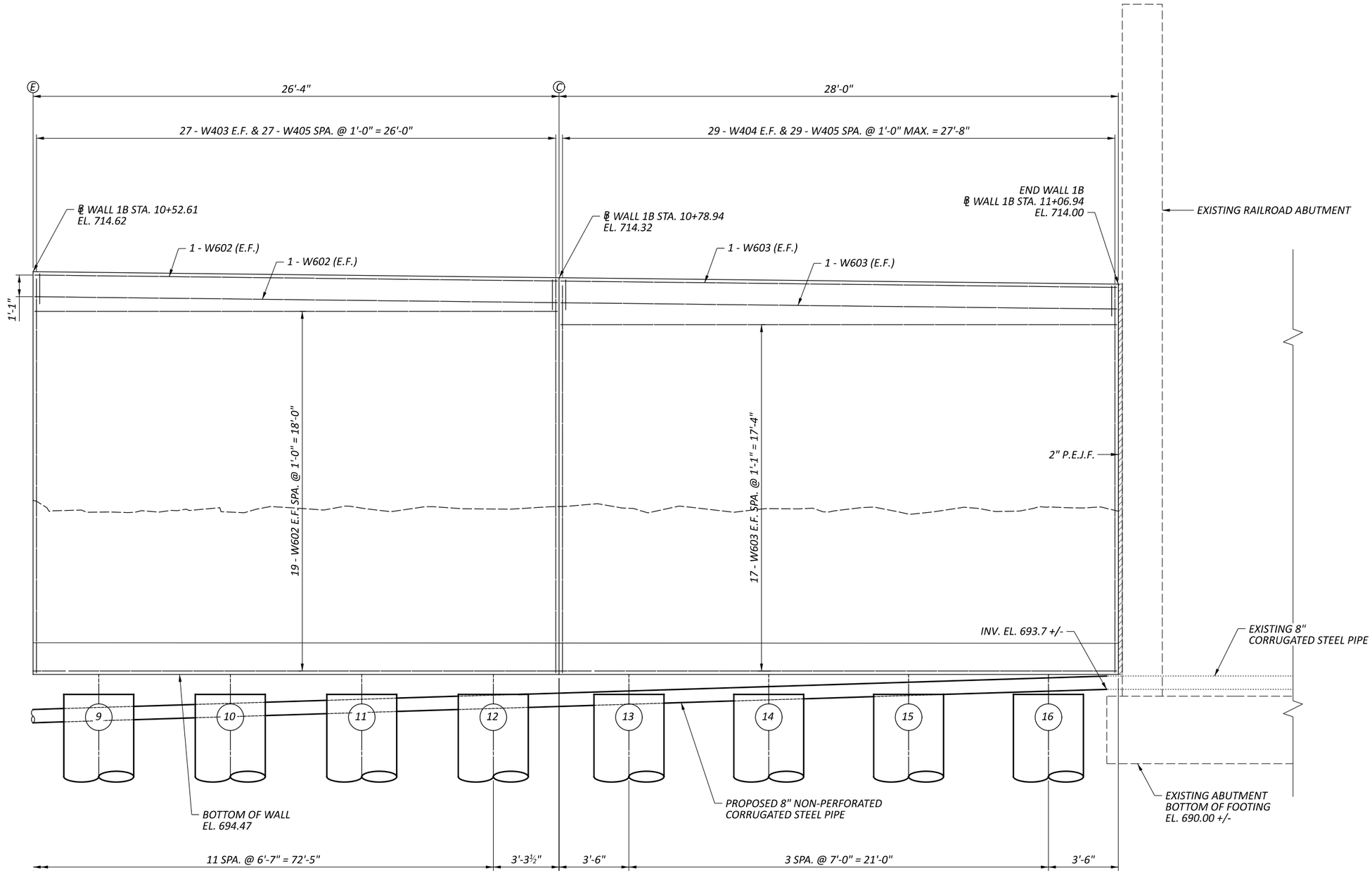



## PARTIAL ELEVATION

**LEGEND:**

- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

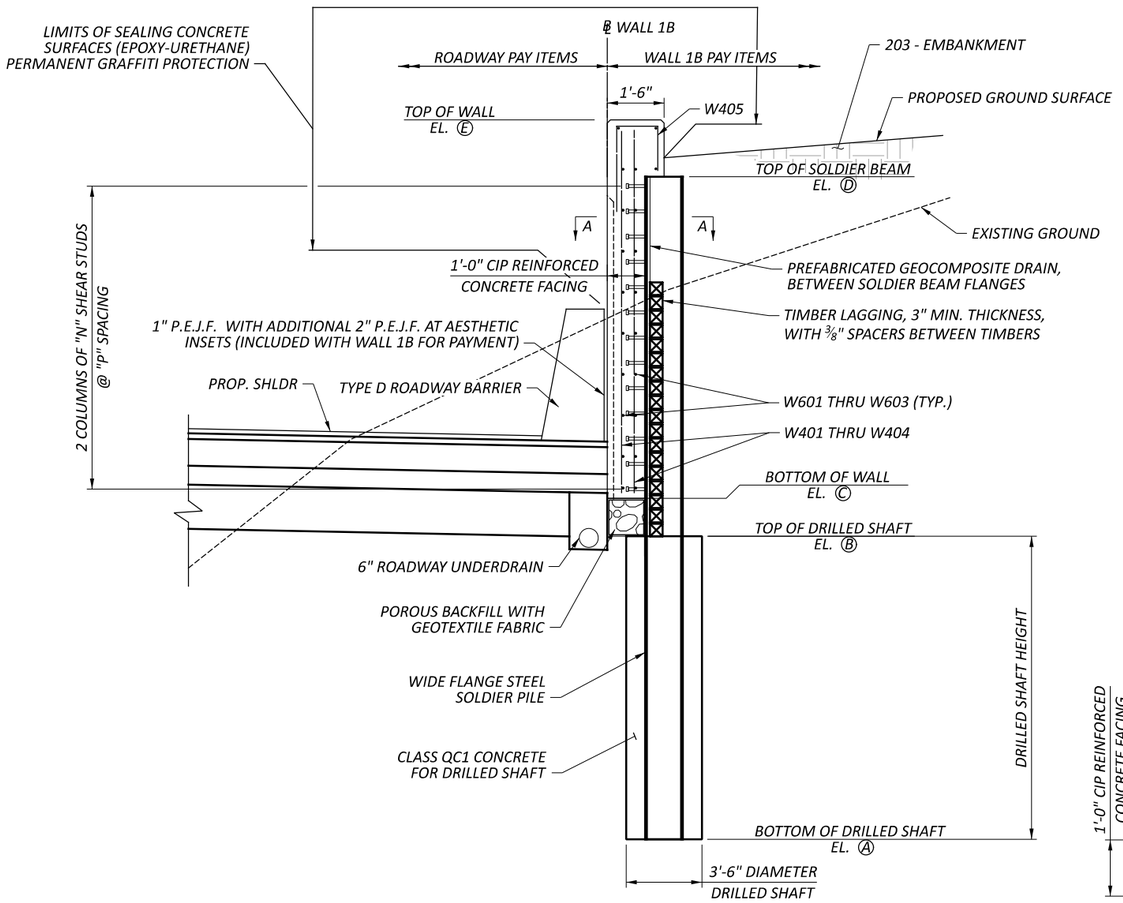
**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
3. FOR DRAINAGE DETAILS, SEE SHEET 4/10.

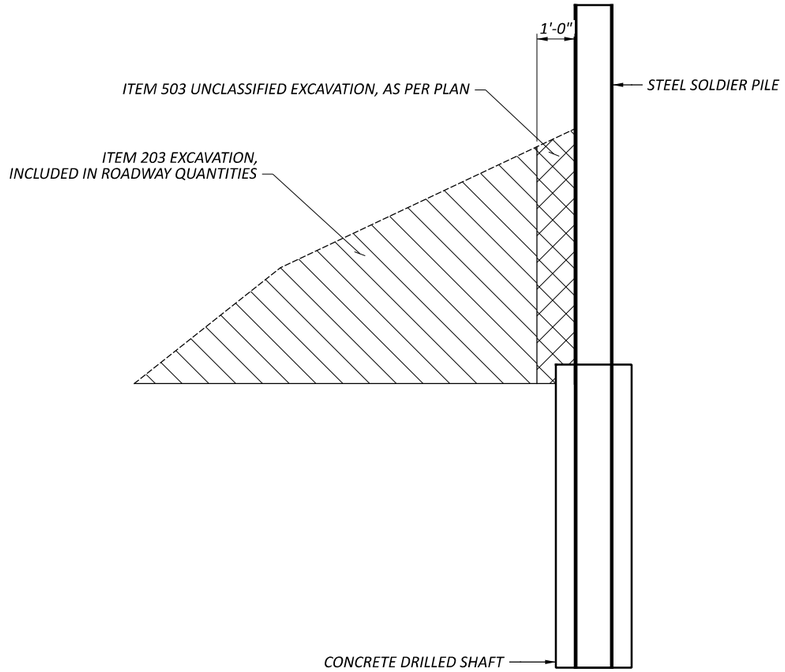
# WALL ELEVATION
# RETAINING WALL 1B

DESIGN AGENCY: TRC

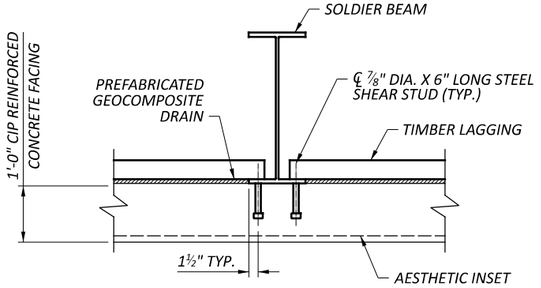
| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 10 |
| SHEET / TOTAL | P.805 / P.1135 |




## WALL 1B TYPICAL SECTION




## EXCAVATION SCHEMATIC




## SECTION A-A

**PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE**

| DRILLED SHAFT NUMBER | WALL 1B STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10+03.24 | 2.49 LT | 670.47 | 693.47 | 694.47 | 713.18 | 715.18 | 42.71 | 42.00 | W33X169 | 20 | 11.50 in |
| 2 | 10+09.82 | 2.49 LT | 670.47 | 693.47 | 694.47 | 713.11 | 715.11 | 42.64 | 42.00 | W33X169 | 20 | 11.25 in |
| 3 | 10+16.40 | 2.49 LT | 670.47 | 693.47 | 694.47 | 713.03 | 715.03 | 42.56 | 42.00 | W33X169 | 20 | 11.25 in |
| 4 | 10+22.99 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.96 | 714.96 | 42.49 | 42.00 | W33X169 | 19 | 11.75 in |
| 5 | 10+29.57 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.88 | 714.88 | 42.41 | 42.00 | W33X169 | 19 | 11.75 in |
| 6 | 10+36.15 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.81 | 714.81 | 42.34 | 42.00 | W33X169 | 19 | 11.75 in |
| 7 | 10+42.74 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.73 | 714.73 | 42.26 | 42.00 | W33X169 | 19 | 11.75 in |
| 8 | 10+49.32 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.66 | 714.66 | 42.19 | 42.00 | W33X169 | 19 | 11.75 in |
| 9 | 10+55.90 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.58 | 714.58 | 42.11 | 42.00 | W33X169 | 19 | 11.50 in |
| 10 | 10+62.49 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.51 | 714.51 | 42.04 | 42.00 | W33X169 | 19 | 11.50 in |
| 11 | 10+69.07 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.43 | 714.43 | 41.96 | 42.00 | W33X169 | 19 | 11.50 in |
| 12 | 10+75.65 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.36 | 714.36 | 41.89 | 42.00 | W33X169 | 19 | 11.50 in |
| 13 | 10+82.44 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.28 | 714.28 | 41.81 | 42.00 | W33X169 | 19 | 11.50 in |
| 14 | 10+89.44 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.20 | 714.20 | 41.73 | 42.00 | W33X169 | 19 | 11.25 in |
| 15 | 10+96.44 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.12 | 714.12 | 41.65 | 42.00 | W33X169 | 19 | 11.25 in |
| 16 | 11+03.44 | 2.49 LT | 670.47 | 693.47 | 694.47 | 712.04 | 714.04 | 41.57 | 42.00 | W33X169 | 19 | 11.25 in |

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. THE PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
5. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/10 AND 7/10.

# TYPICAL SECTION AND PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE RETAINING WALL 1B

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 8 | TOTAL 10

SHEET P.806 | TOTAL P.1135

CUY-77-11.41 - PART 1

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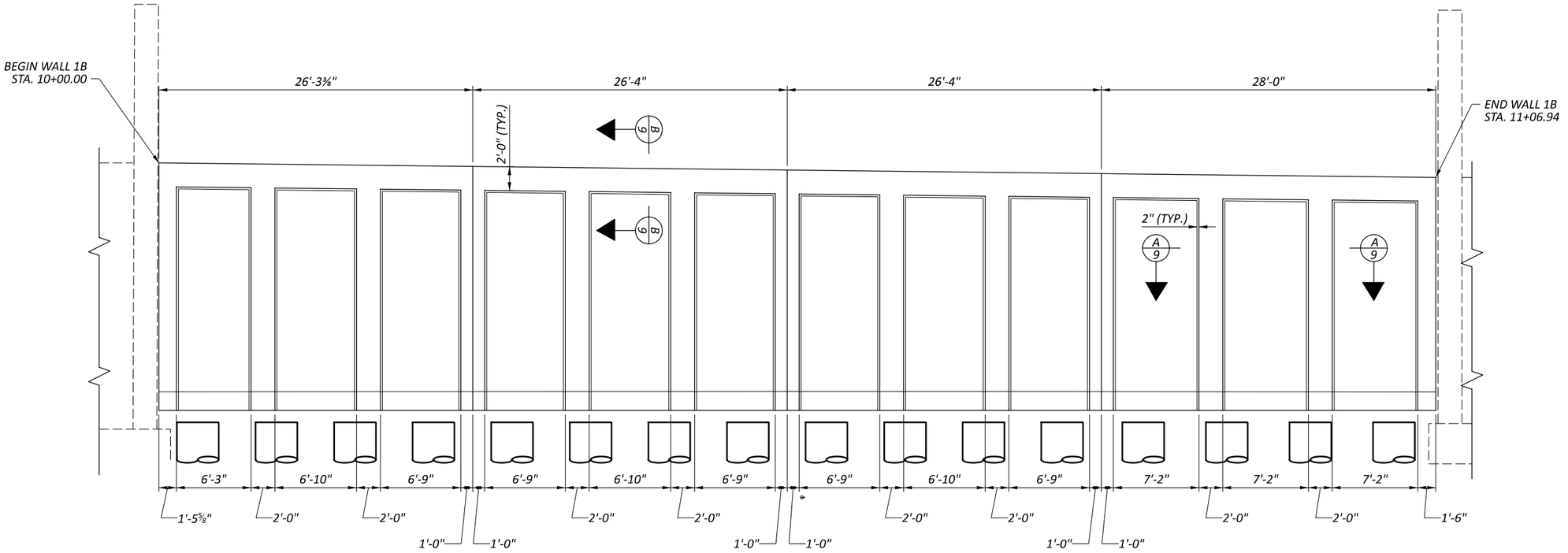
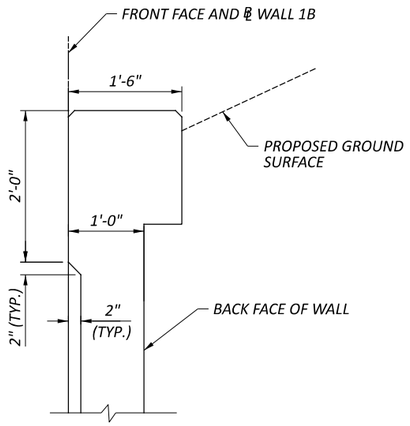
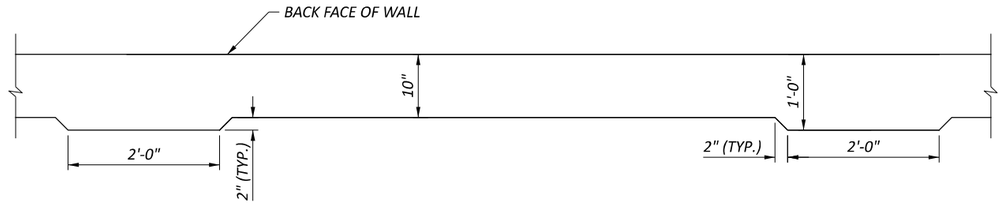



## AESTHETIC WALL FACING ELEVATION




## SECTION B-B




## SECTION A-A

## NOTES:

1. *ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.*
2. *PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.*
3. *FOR WALL FACING ELEVATIONS, SEE SHEETS 6/10 AND 7/10.*

# AESTHETIC DETAILS
# RETAINING WALL 1B

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:35:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: LBrown@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
TRC

DESIGNER
CEJ

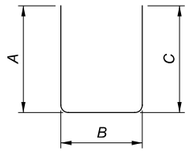
REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 9 | TOTAL 10

SHEET P.807 | TOTAL P.1135

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W401 | 54 | 20'-1" | 724 | STR | | | | | | | |
| W402 | 54 | 19'-9" | 712 | STR | | | | | | | |
| W403 | 54 | 19'-6" | 703 | STR | | | | | | | |
| W404 | 58 | 19'-2" | 743 | STR | | | | | | | |
| W405 | 110 | 3'-2" | 233 | 2 | 2'-3" | 1'-0" | 1'-6" | | | | |
| W601 | 40 | 25'-11" | 1557 | STR | | | | | | | |
| W602 | 82 | 26'-0" | 3202 | STR | | | | | | | |
| W603 | 38 | 27'-8" | 1579 | STR | | | | | | | |
| | | TOTAL | 9,453 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

# REINFORCING STEEL LIST
# RETAINING WALL 1B

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 10 | TOTAL 10

SHEET P.808 | TOTAL P.1135

CUY-77-11.41 - PART 1

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MODEL: WALL 1C ALIGNMENT - WALL 1C [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:58:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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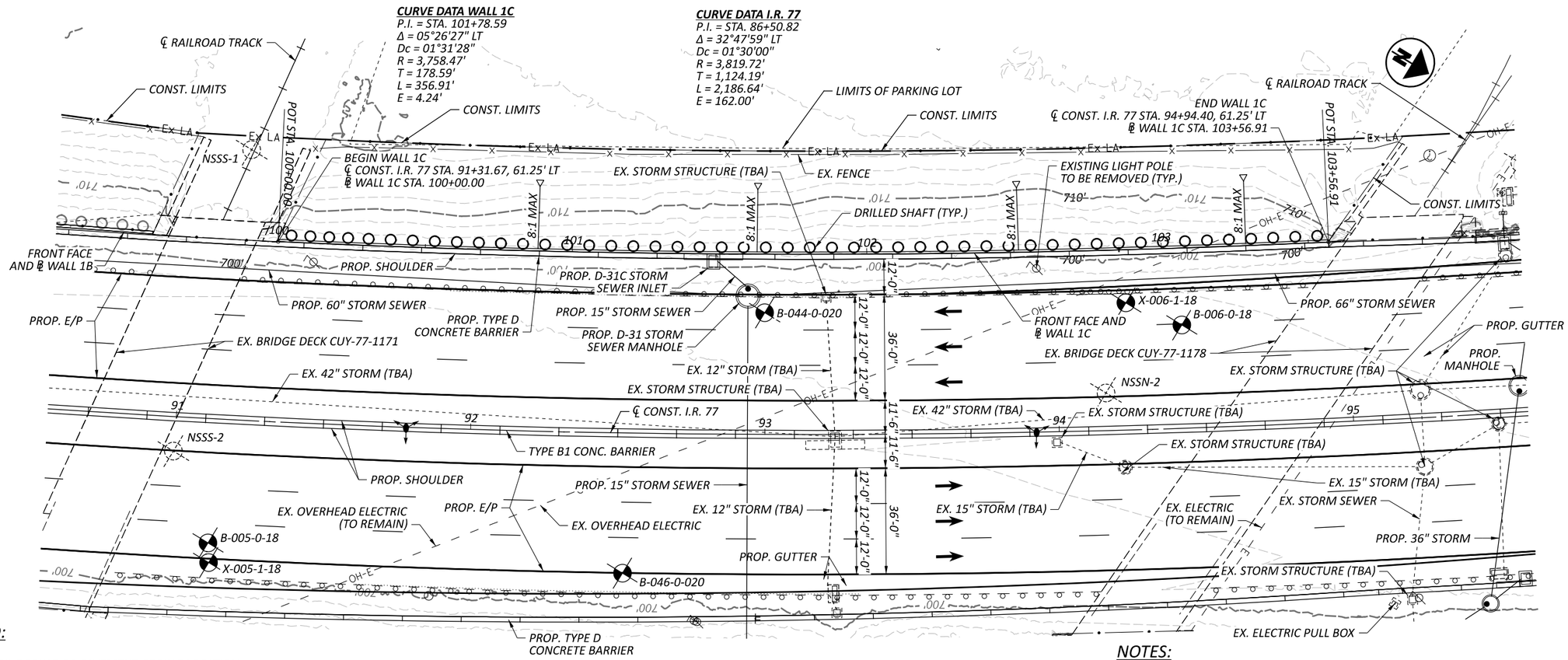
CUY-77-11.41 - PART 1



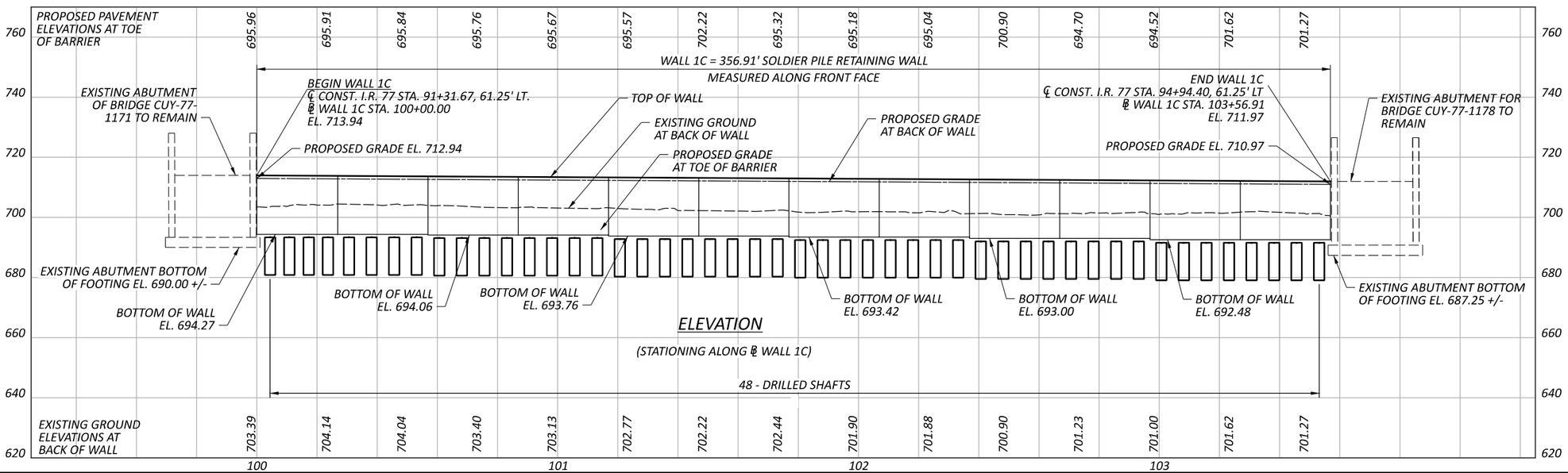

PLAN

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.




SITE PLAN
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 1 | TOTAL 14

SHEET P.809 | TOTAL P.1135

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x201

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x169

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

## ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, MISC.: TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

# GENERAL NOTES
# RETAINING WALL 1C

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 2 | TOTAL: 14
SHEET: P.810 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (WALL 1C)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 503 | 21101 | | CY | UNCLASSIFIED EXCAVATION, AS PER PLAN | 11 |
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W33x169 | 2 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W33x210 | 2 |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING | 11 |
| | | | | | |
| 512 | 10001 | | SY | SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION) | 2 |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33001 | | SY | TYPE 2 WATERPROOFING, AS PER PLAN | 2 |
| | | | | | |
| 513 | 20001 | | EACH | WELDED STUD SHEAR CONNECTORS, AS PER PLAN | 2 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| | | | | | |
| 524 | 94803 | | FT | DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN | 2 |
| 524 | 94903 | | FT | DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN | 2 |
| | | | | | |
| SPECIAL | 53051020 | | SF | RETAINING WALL, TIMBER LAGGING | 2 |
| | | | | | |

ESTIMATED QUANTITIES
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 14

SHEET P.811 | TOTAL P.1135

CUY-77-11.41 - PART 1

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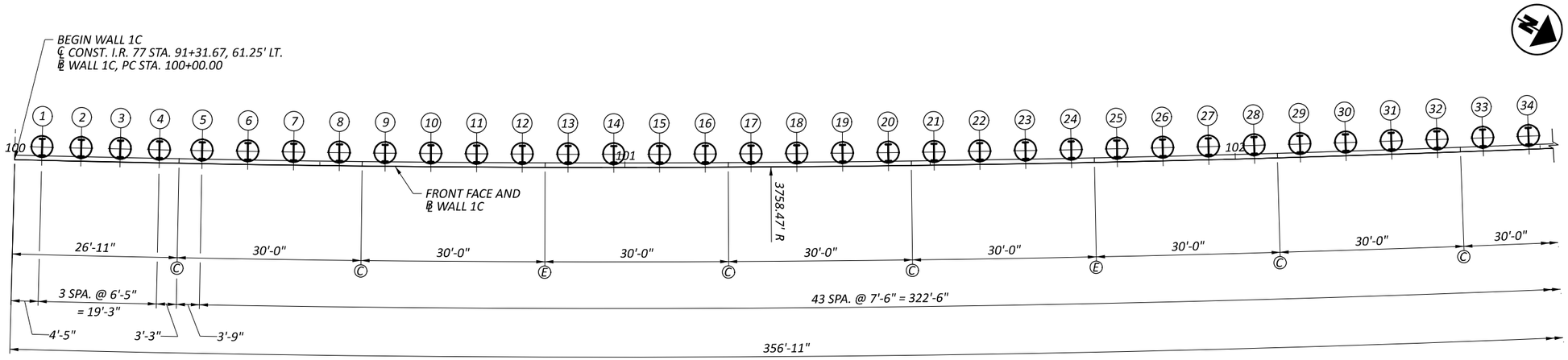
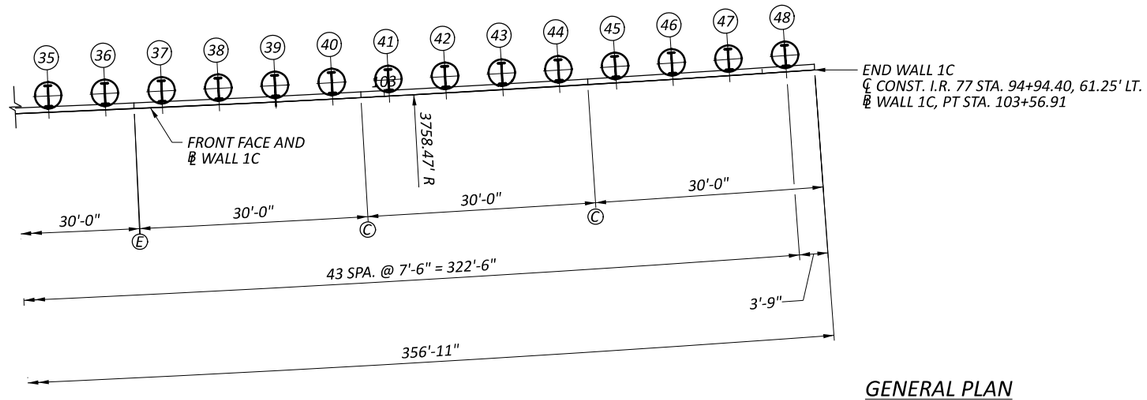
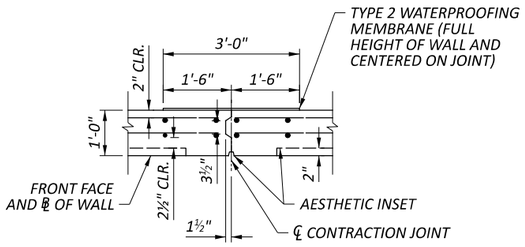


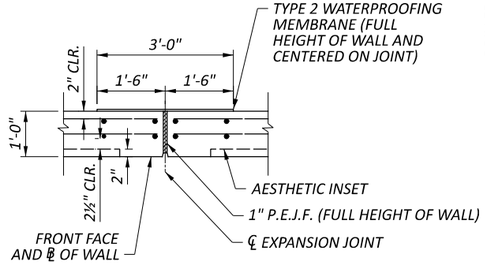




## GENERAL PLAN

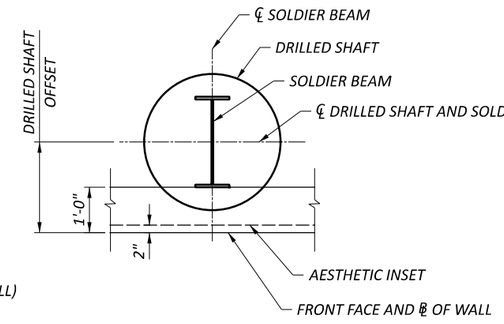
*(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)*




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL

## LEGEND:

- ① - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/14 THRU 10/14.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 12/14.
3. FOR AESTHETIC DETAILS, SEE SHEET 13/14.

# PILE LAYOUT AND GEOMETRY SCHEMATIC
# RETAINING WALL 1C

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 4 | TOTAL: 14

SHEET: P.812 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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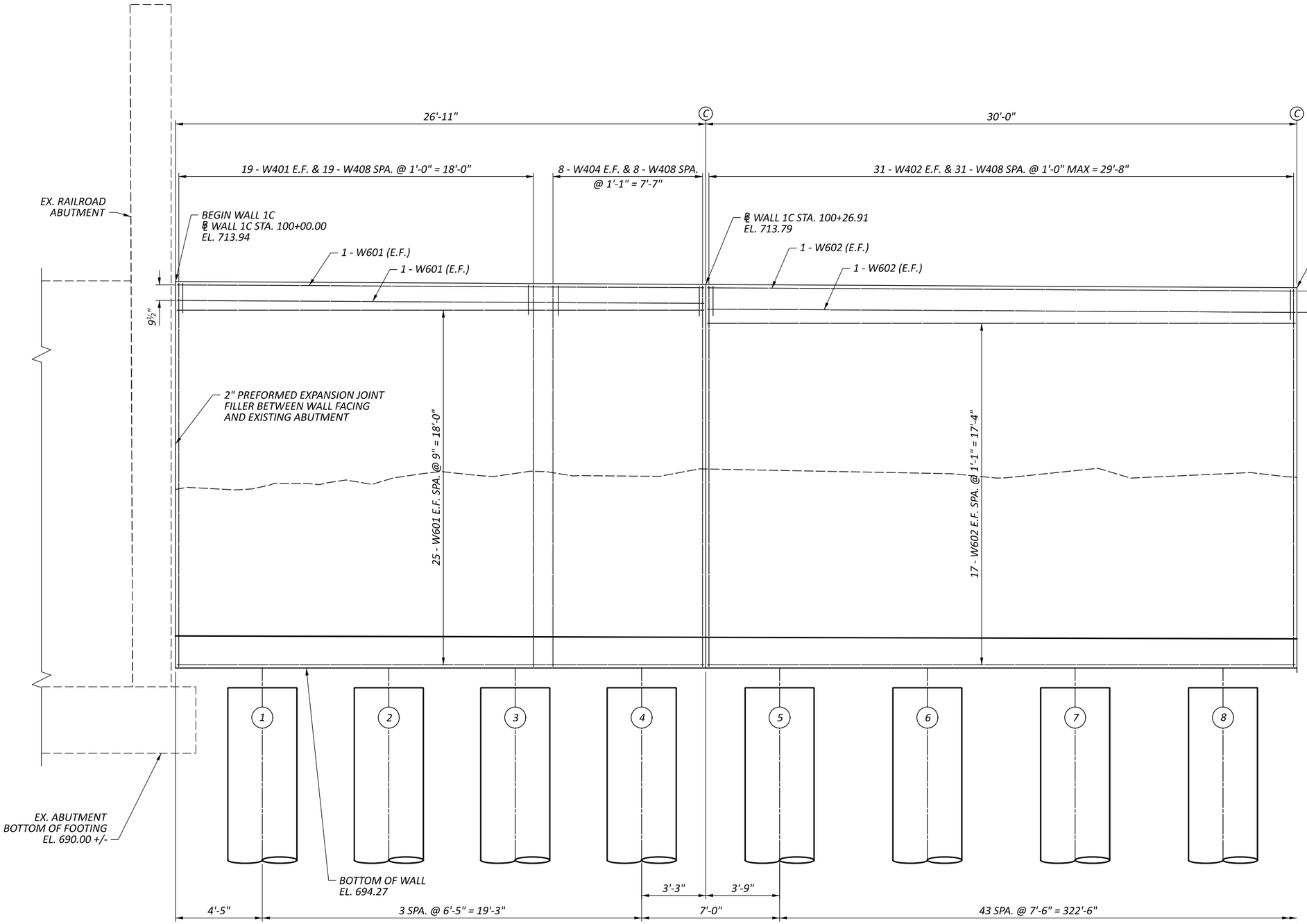


## PARTIAL ELEVATION

**LEGEND:**

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 1C

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 5 / 14 |
| SHEET / TOTAL | P.813 / P.1135 |

MODEL: panels 3-4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:19 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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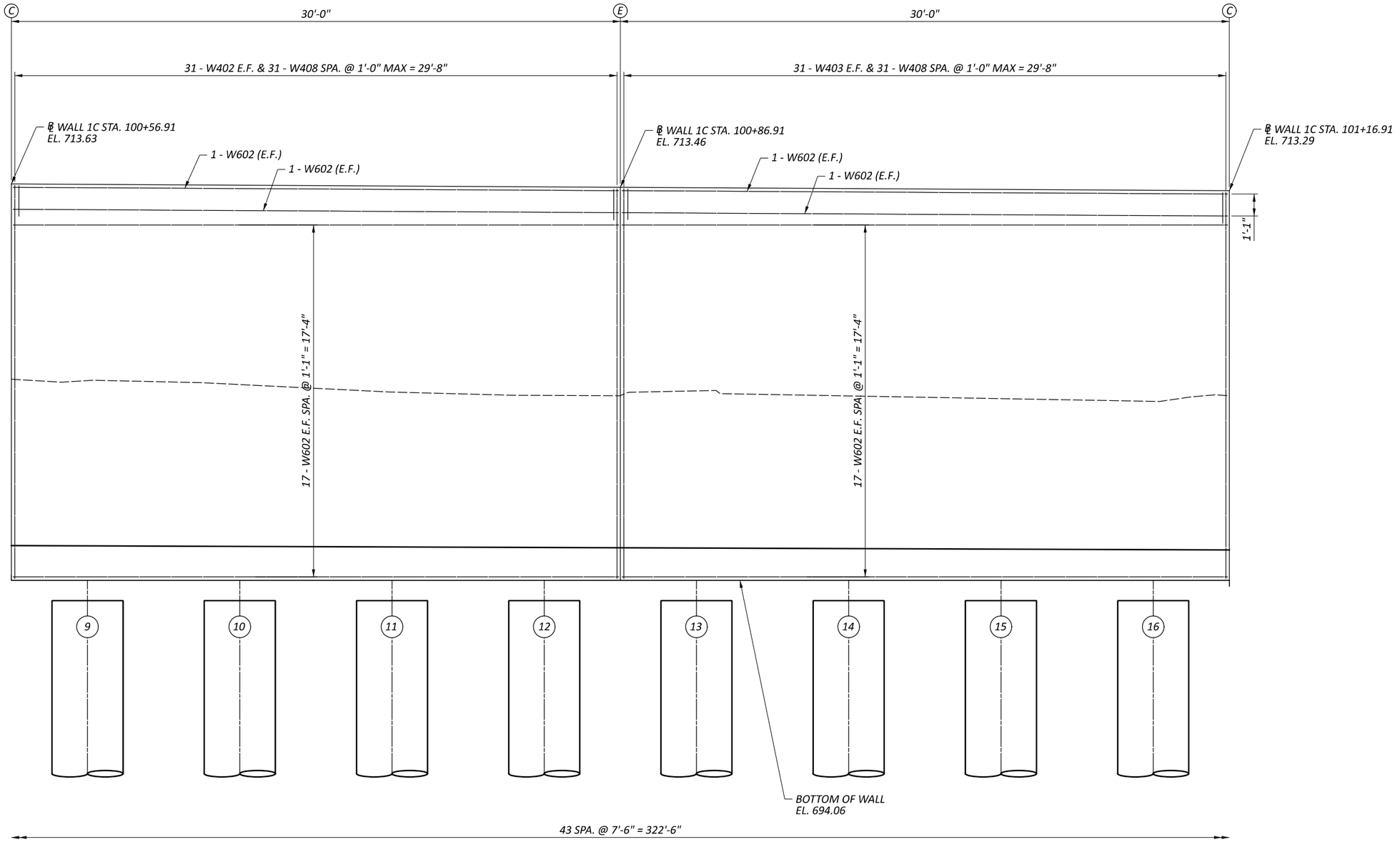



## PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

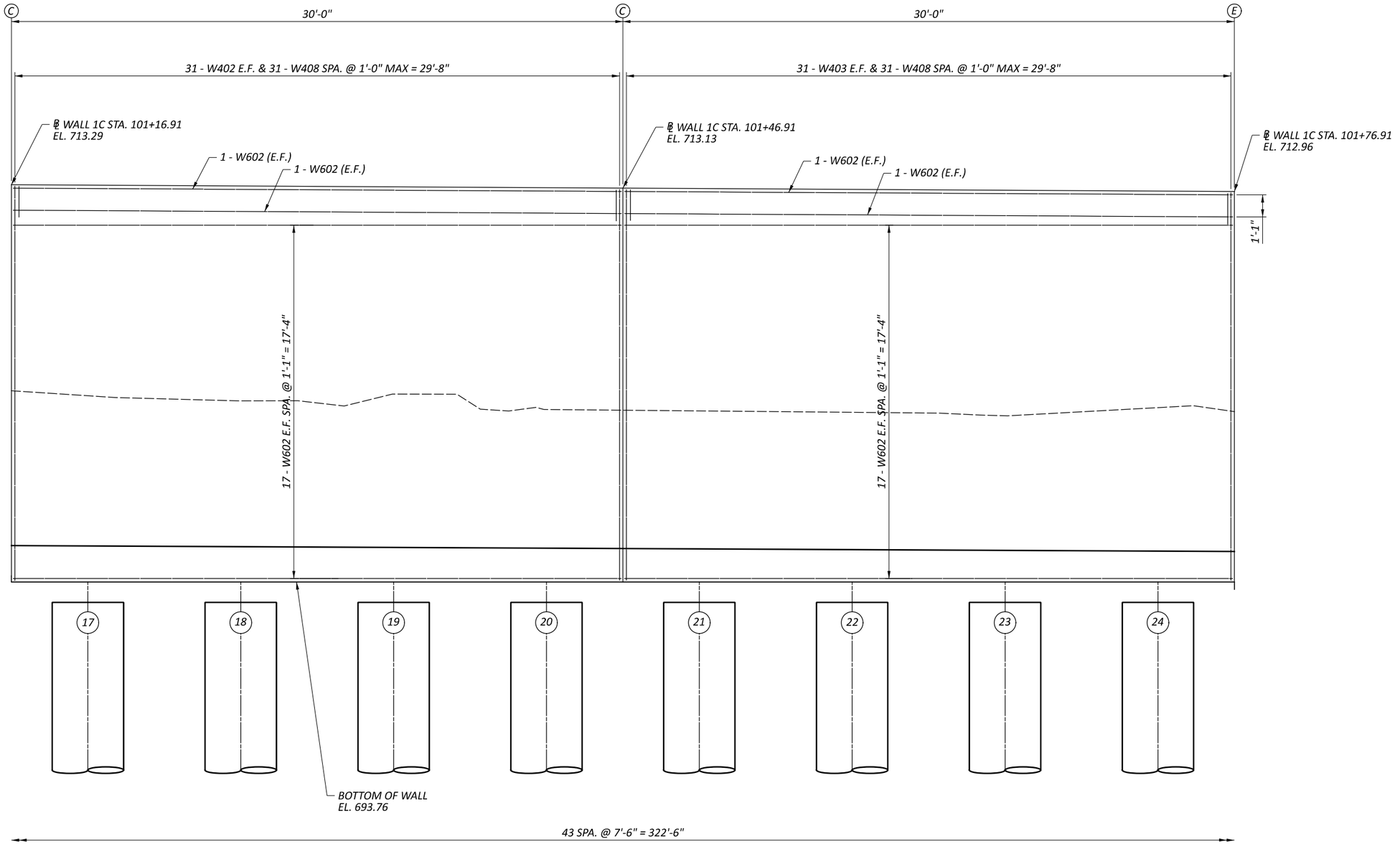
## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 1C

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 14 |
| SHEET / TOTAL | P.814 / P.1135 |




## PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 1C

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 14 |
| SHEET / TOTAL | P.815 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: panels 5-6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:20 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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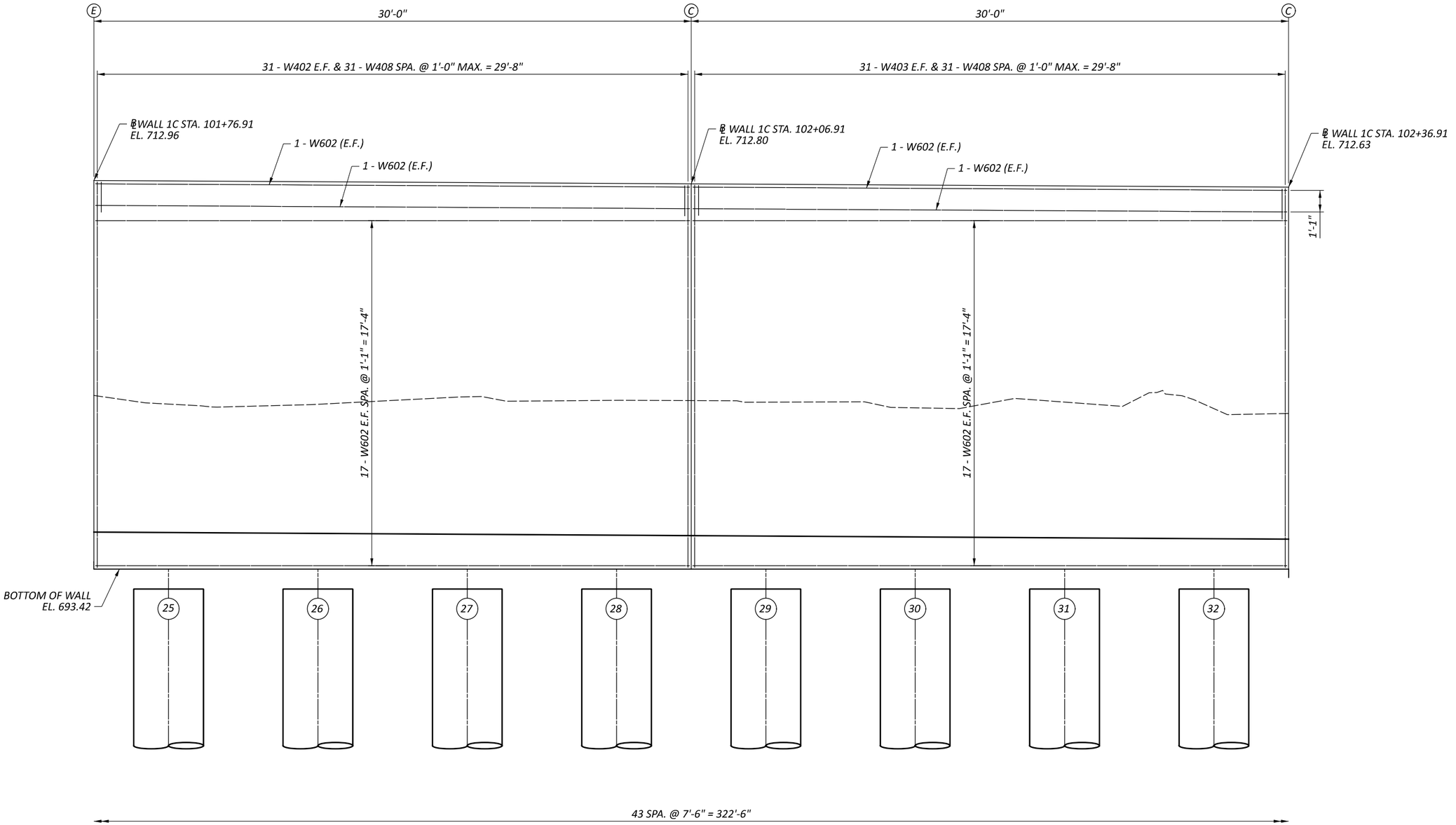


PARTIAL ELEVATION

**LEGEND:**

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 1C

CUY-77-11.41 - PART 1

MODEL: panels 7-8 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:20 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 14 |
| SHEET / TOTAL | P.816 / P.1135 |

MODEL: panels 9-10 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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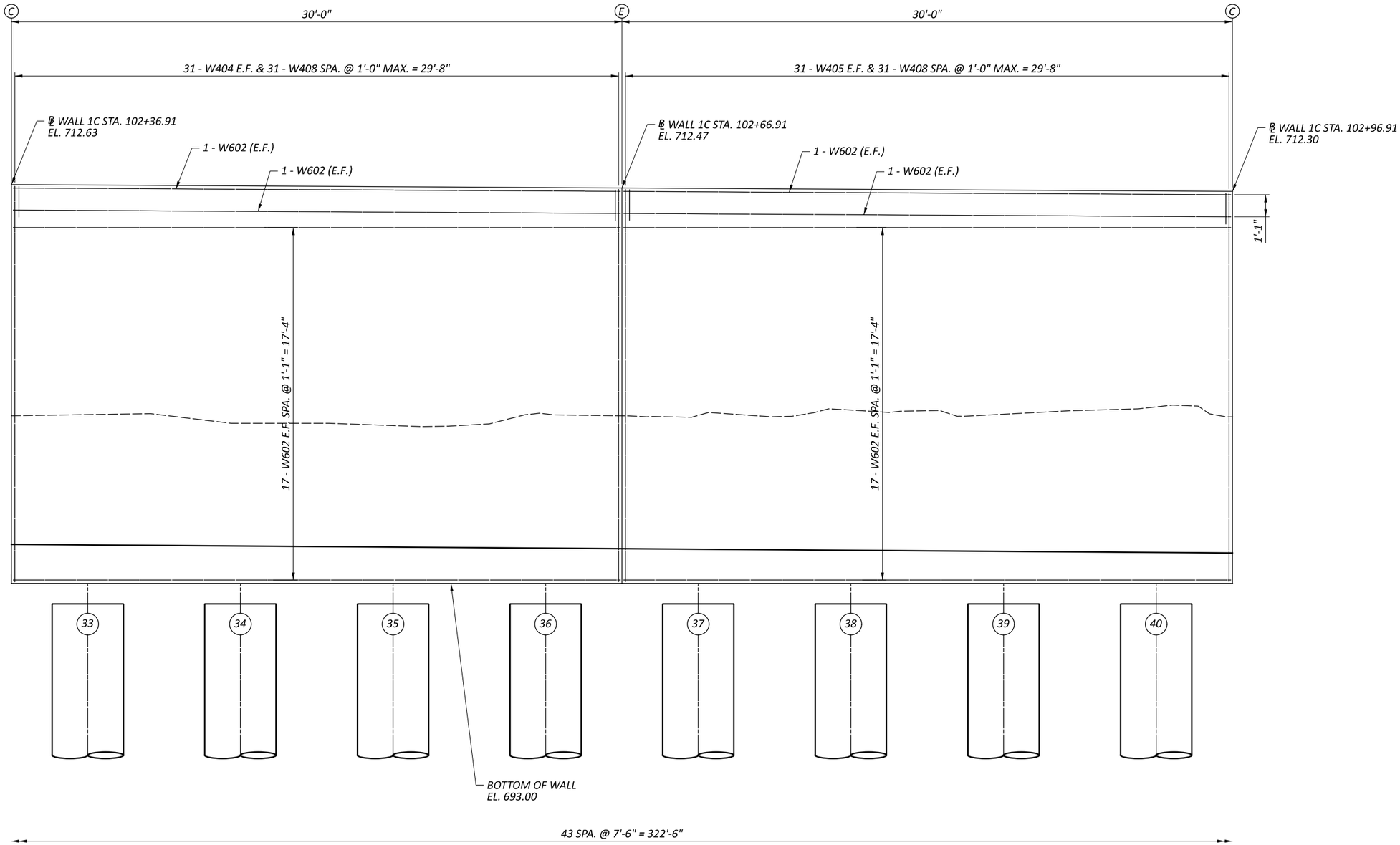



## PARTIAL ELEVATION

**LEGEND:**

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

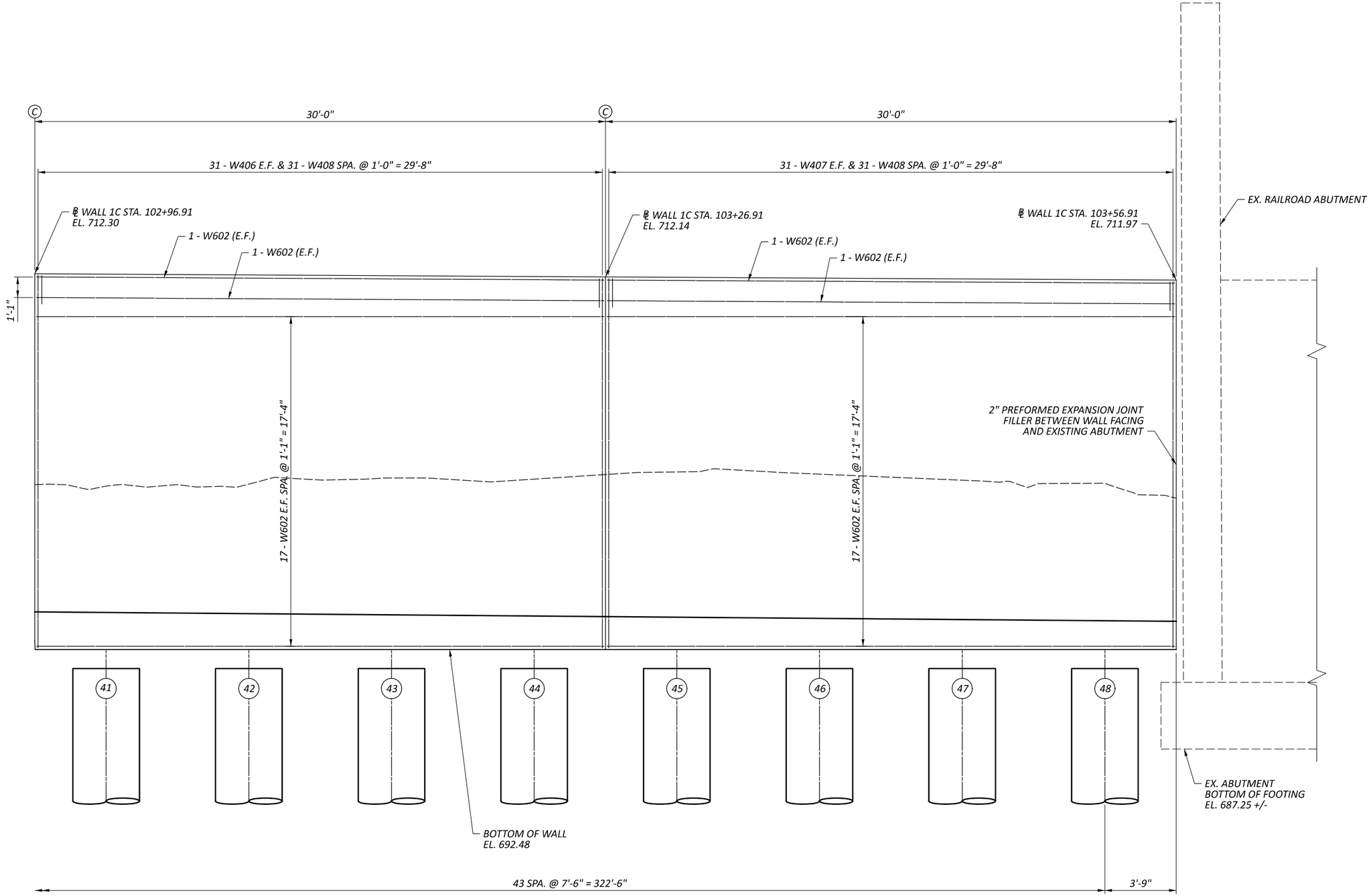
**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 1C

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 9 |
| TOTAL | 14 |
| SHEET | P.817 |
| TOTAL | P.1135 |




PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION RETAINING WALL 1C

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 10 |
| TOTAL | 14 |
| SHEET | P.818 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: panels 11-12 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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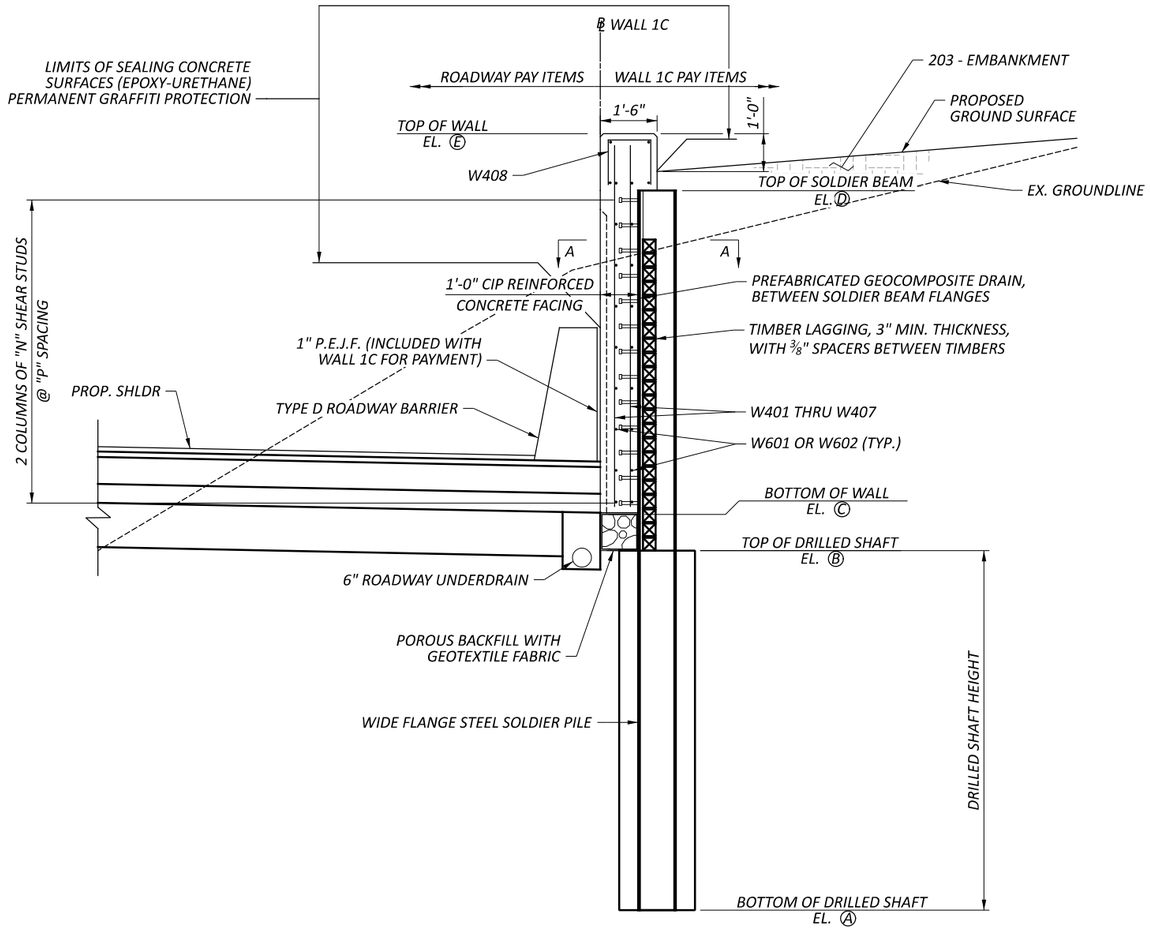
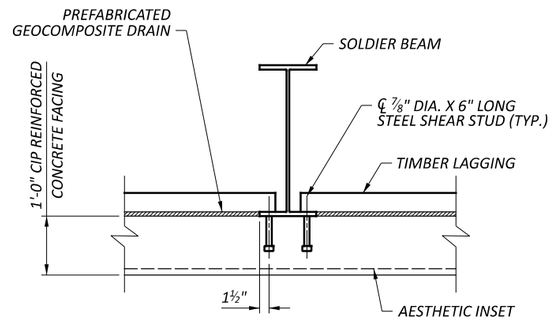
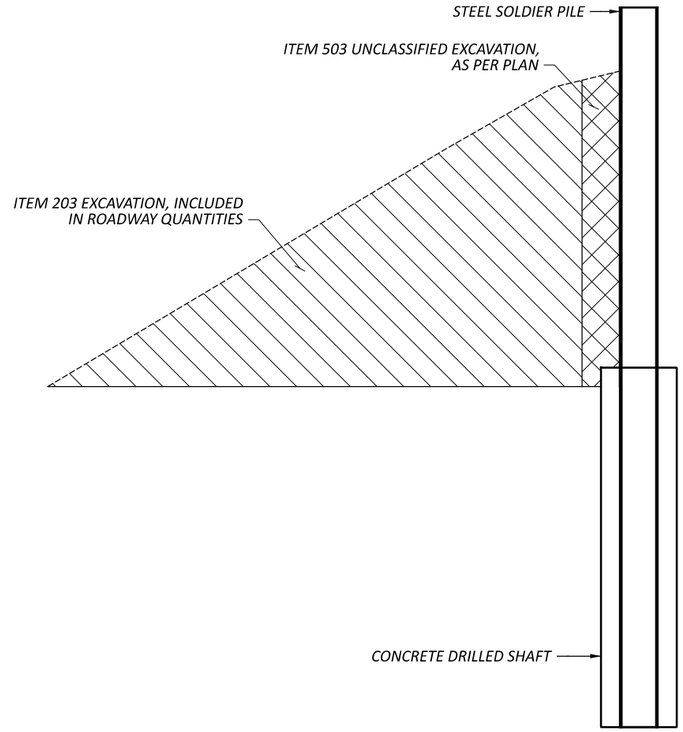



## WALL 1C TYPICAL SECTION




## SECTION A-A




## EXCAVATION SCHEMATIC

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 12/14.

# TYPICAL SECTION RETAINING WALL 1C

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:29 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01C\Sheets\105743_WALL01C_WY001.dgn

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 11 | TOTAL: 14
SHEET: P.819 | TOTAL: P.1135

| DRILLED SHAFT NUMBER | WALL 1C STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100+04.41 | 2.49 LT | 668.27 | 693.27 | 694.27 | 711.92 | 713.92 | 43.65 | 42.00 | W33X169 | 19 | 11.25 in |
| 2 | 100+10.83 | 2.49 LT | 668.27 | 693.27 | 694.27 | 711.88 | 713.88 | 43.61 | 42.00 | W33X169 | 19 | 11.25 in |
| 3 | 100+17.25 | 2.49 LT | 668.27 | 693.27 | 694.27 | 711.84 | 713.84 | 43.57 | 42.00 | W33X169 | 19 | 11.25 in |
| 4 | 100+23.66 | 2.49 LT | 668.27 | 693.27 | 694.27 | 711.81 | 713.81 | 43.54 | 42.00 | W33X169 | 19 | 11.25 in |
| 5 | 100+30.66 | 2.49 LT | 663.27 | 693.27 | 694.27 | 711.77 | 713.77 | 48.50 | 48.00 | W33X201 | 19 | 11.25 in |
| 6 | 100+38.16 | 2.49 LT | 663.27 | 693.27 | 694.27 | 711.73 | 713.73 | 48.46 | 48.00 | W33X201 | 18 | 11.75 in |
| 7 | 100+45.66 | 2.49 LT | 663.27 | 693.27 | 694.27 | 711.69 | 713.69 | 48.42 | 48.00 | W33X201 | 18 | 11.75 in |
| 8 | 100+53.16 | 2.49 LT | 663.27 | 693.27 | 694.27 | 711.65 | 713.65 | 48.38 | 48.00 | W33X201 | 18 | 11.75 in |
| 9 | 100+60.66 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.61 | 713.61 | 48.55 | 48.00 | W33X201 | 19 | 11.25 in |
| 10 | 100+68.16 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.56 | 713.56 | 48.50 | 48.00 | W33X201 | 19 | 11.25 in |
| 11 | 100+75.66 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.52 | 713.52 | 48.46 | 48.00 | W33X201 | 18 | 11.75 in |
| 12 | 100+83.16 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.48 | 713.48 | 48.42 | 48.00 | W33X201 | 18 | 11.75 in |
| 13 | 100+90.66 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.44 | 713.44 | 48.38 | 48.00 | W33X201 | 18 | 11.75 in |
| 14 | 100+98.16 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.40 | 713.40 | 48.34 | 48.00 | W33X201 | 18 | 11.75 in |
| 15 | 101+05.66 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.36 | 713.36 | 48.30 | 48.00 | W33X201 | 18 | 11.75 in |
| 16 | 101+13.16 | 2.49 LT | 663.06 | 693.06 | 694.06 | 711.32 | 713.32 | 48.26 | 48.00 | W33X201 | 18 | 11.75 in |
| 17 | 101+20.66 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.27 | 713.27 | 48.51 | 48.00 | W33X201 | 19 | 11.25 in |
| 18 | 101+28.16 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.23 | 713.23 | 48.47 | 48.00 | W33X201 | 18 | 11.75 in |
| 19 | 101+35.66 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.19 | 713.19 | 48.43 | 48.00 | W33X201 | 18 | 11.75 in |
| 20 | 101+43.16 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.15 | 713.15 | 48.39 | 48.00 | W33X201 | 18 | 11.75 in |
| 21 | 101+50.66 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.11 | 713.11 | 48.35 | 48.00 | W33X201 | 18 | 11.75 in |
| 22 | 101+58.16 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.07 | 713.07 | 48.31 | 48.00 | W33X201 | 18 | 11.75 in |
| 23 | 101+65.66 | 2.49 LT | 662.76 | 692.76 | 693.76 | 711.03 | 713.03 | 48.27 | 48.00 | W33X201 | 18 | 11.75 in |
| 24 | 101+73.16 | 2.49 LT | 662.76 | 692.76 | 693.76 | 710.98 | 712.98 | 48.22 | 48.00 | W33X201 | 18 | 11.75 in |
| 25 | 101+80.66 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.94 | 712.94 | 48.52 | 48.00 | W33X201 | 19 | 11.25 in |
| 26 | 101+88.16 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.90 | 712.90 | 48.48 | 48.00 | W33X201 | 18 | 11.75 in |
| 27 | 101+95.66 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.86 | 712.86 | 48.44 | 48.00 | W33X201 | 18 | 11.75 in |
| 28 | 102+03.16 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.82 | 712.82 | 48.40 | 48.00 | W33X201 | 18 | 11.75 in |
| 29 | 102+10.66 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.78 | 712.78 | 48.36 | 48.00 | W33X201 | 18 | 11.75 in |
| 30 | 102+18.16 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.74 | 712.74 | 48.32 | 48.00 | W33X201 | 18 | 11.75 in |
| 31 | 102+25.66 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.69 | 712.69 | 48.27 | 48.00 | W33X201 | 18 | 11.75 in |
| 32 | 102+33.16 | 2.49 LT | 662.42 | 692.42 | 693.42 | 710.65 | 712.65 | 48.23 | 48.00 | W33X201 | 18 | 11.75 in |
| 33 | 102+40.66 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.61 | 712.61 | 48.61 | 48.00 | W33X201 | 19 | 11.25 in |
| 34 | 102+48.16 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.57 | 712.57 | 48.57 | 48.00 | W33X201 | 19 | 11.25 in |
| 35 | 102+55.66 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.53 | 712.53 | 48.53 | 48.00 | W33X201 | 19 | 11.25 in |
| 36 | 102+63.16 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.49 | 712.49 | 48.49 | 48.00 | W33X201 | 18 | 11.75 in |
| 37 | 102+70.66 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.45 | 712.45 | 48.45 | 48.00 | W33X201 | 18 | 11.75 in |
| 38 | 102+78.16 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.40 | 712.40 | 48.40 | 48.00 | W33X201 | 18 | 11.75 in |
| 39 | 102+85.66 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.36 | 712.36 | 48.36 | 48.00 | W33X201 | 18 | 11.75 in |
| 40 | 102+93.16 | 2.49 LT | 662.00 | 692.00 | 693.00 | 710.32 | 712.32 | 48.32 | 48.00 | W33X201 | 18 | 11.75 in |
| 41 | 103+00.66 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.28 | 712.28 | 48.80 | 48.00 | W33X201 | 19 | 11.50 in |
| 42 | 103+08.16 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.24 | 712.24 | 48.76 | 48.00 | W33X201 | 19 | 11.50 in |
| 43 | 103+15.66 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.20 | 712.20 | 48.72 | 48.00 | W33X201 | 19 | 11.25 in |
| 44 | 103+23.16 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.16 | 712.16 | 48.68 | 48.00 | W33X201 | 19 | 11.25 in |
| 45 | 103+30.66 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.11 | 712.11 | 48.63 | 48.00 | W33X201 | 19 | 11.25 in |
| 46 | 103+38.16 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.07 | 712.07 | 48.59 | 48.00 | W33X201 | 19 | 11.25 in |
| 47 | 103+45.66 | 2.49 LT | 661.48 | 691.48 | 692.48 | 710.03 | 712.03 | 48.55 | 48.00 | W33X201 | 19 | 11.25 in |
| 48 | 103+53.16 | 2.49 LT | 661.48 | 691.48 | 692.48 | 709.99 | 711.99 | 48.51 | 48.00 | W33X201 | 19 | 11.25 in |

## NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
2. FOR TYPICAL WALL SECTION, SEE SHEET 11/14.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

# PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE RETAINING WALL 1C

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 12 | TOTAL: 14

SHEET: P.820 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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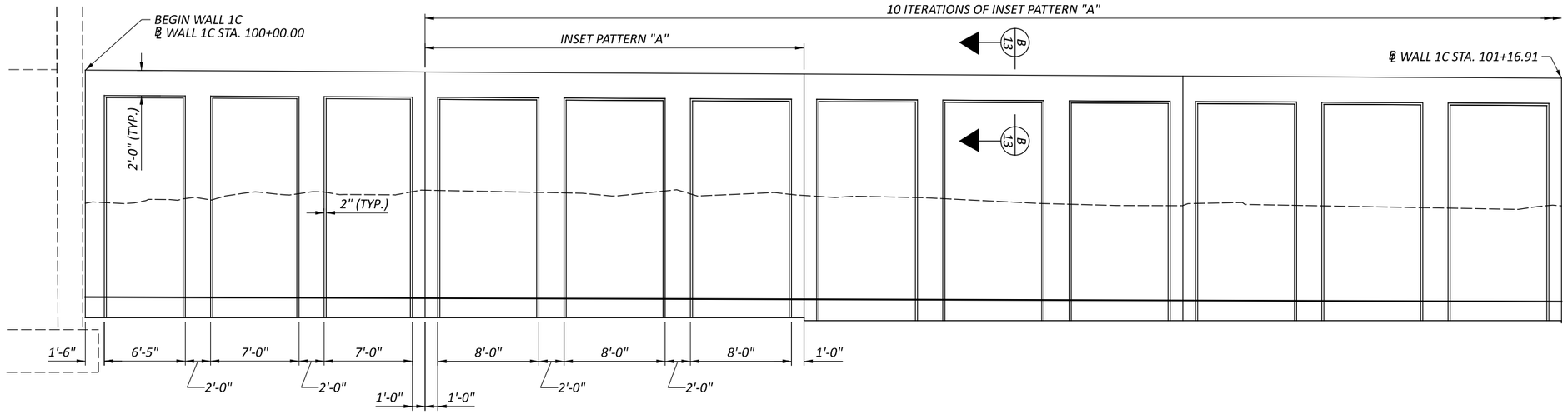
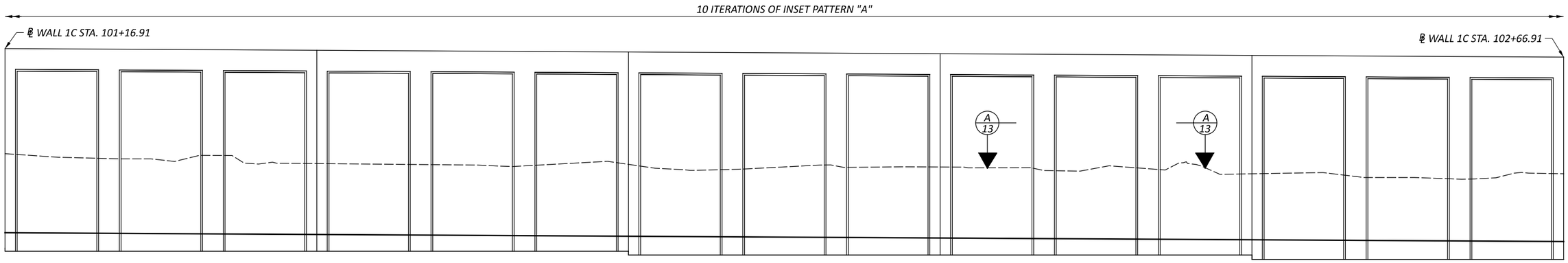
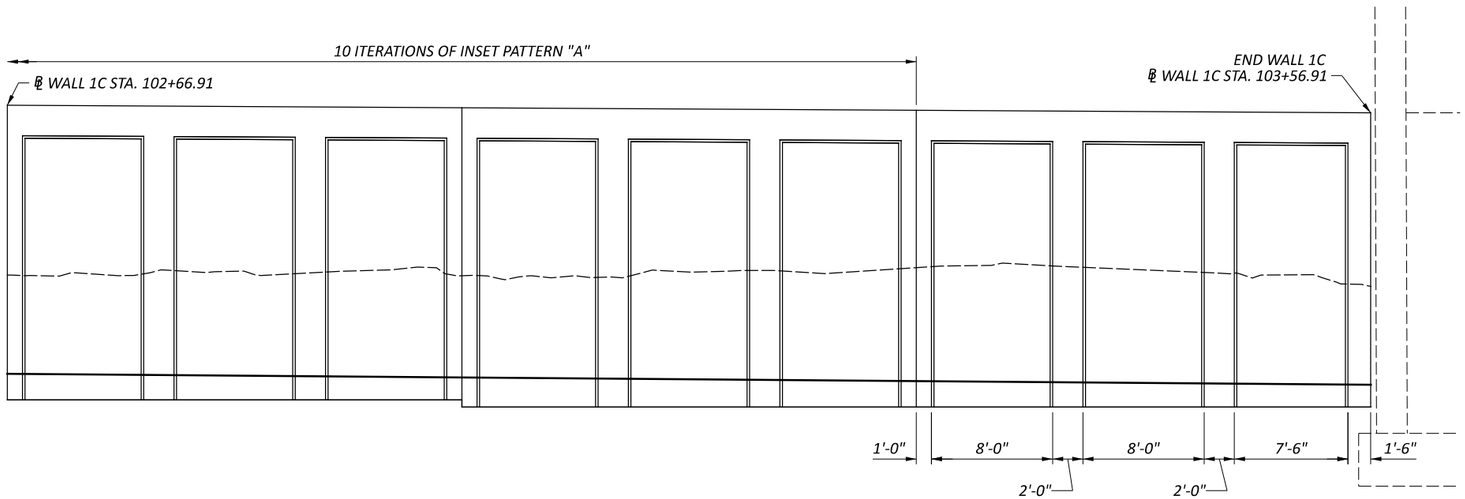
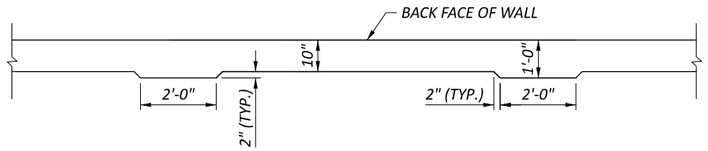


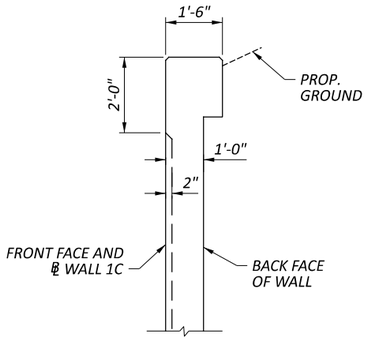




AESTHETIC WALL FACING ELEVATION




SECTION A-A




SECTION B-B

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

# AESTHETIC DETAILS
# RETAINING WALL 1C

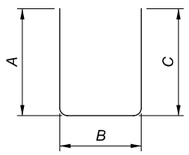
DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 13 |
| TOTAL | 14 |
| SHEET | P.821 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01C\Sheets\105743_WALL01C_WD001.dgn

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W401 | 38 | 19'-4" | 491 | STR | | | | | | | |
| W402 | 248 | 19'-1" | 3161 | STR | | | | | | | |
| W403 | 186 | 18'-11" | 2350 | STR | | | | | | | |
| W404 | 78 | 19'-2" | 999 | STR | | | | | | | |
| W405 | 62 | 19'-0" | 787 | STR | | | | | | | |
| W406 | 62 | 19'-5" | 804 | STR | | | | | | | |
| W407 | 62 | 19'-8" | 815 | STR | | | | | | | |
| W408 | 368 | 3'-10" | 942 | 2 | 1'-6" | 1'-0" | 1'-6" | | | | |
| W601 | 54 | 26'-7" | 2156 | STR | | | | | | | |
| W602 | 418 | 29'-8" | 18626 | STR | | | | | | | |
| TOTAL | | | 31,131 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

# REINFORCING STEEL LIST
# RETAINING WALL 1C

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

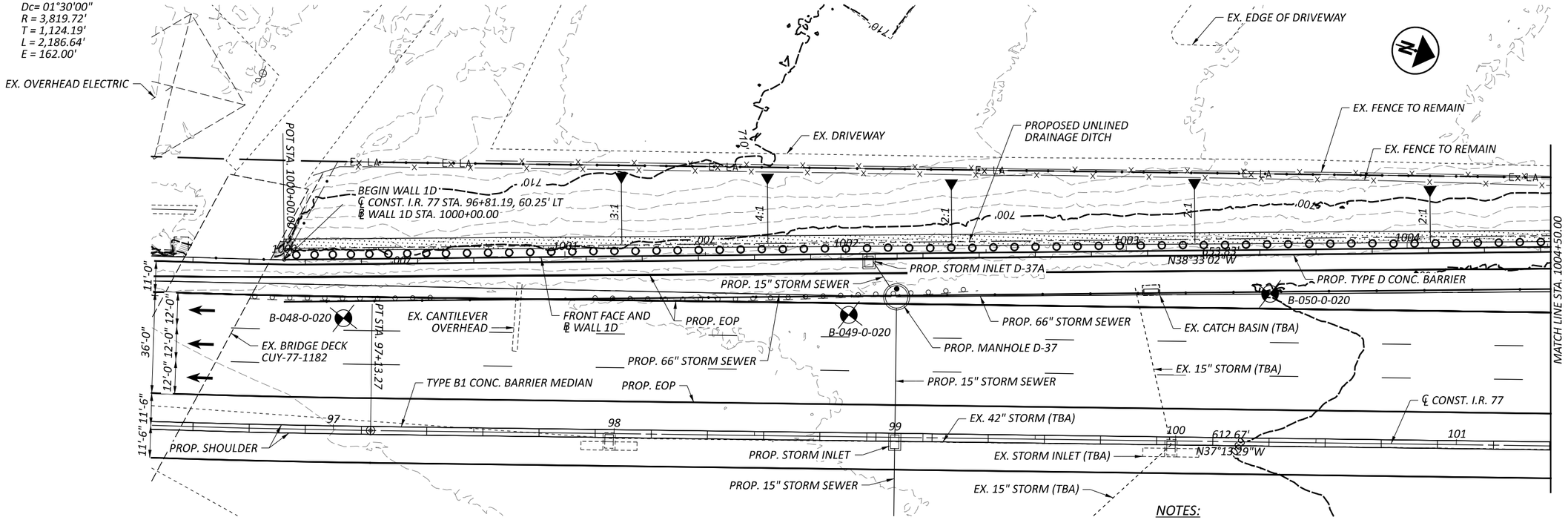
SUBSET 14 | TOTAL 14

SHEET P.822 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 2:59:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01C\Sheets\105743_WALL01C_WL001.dgn

CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc= 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'




PLAN

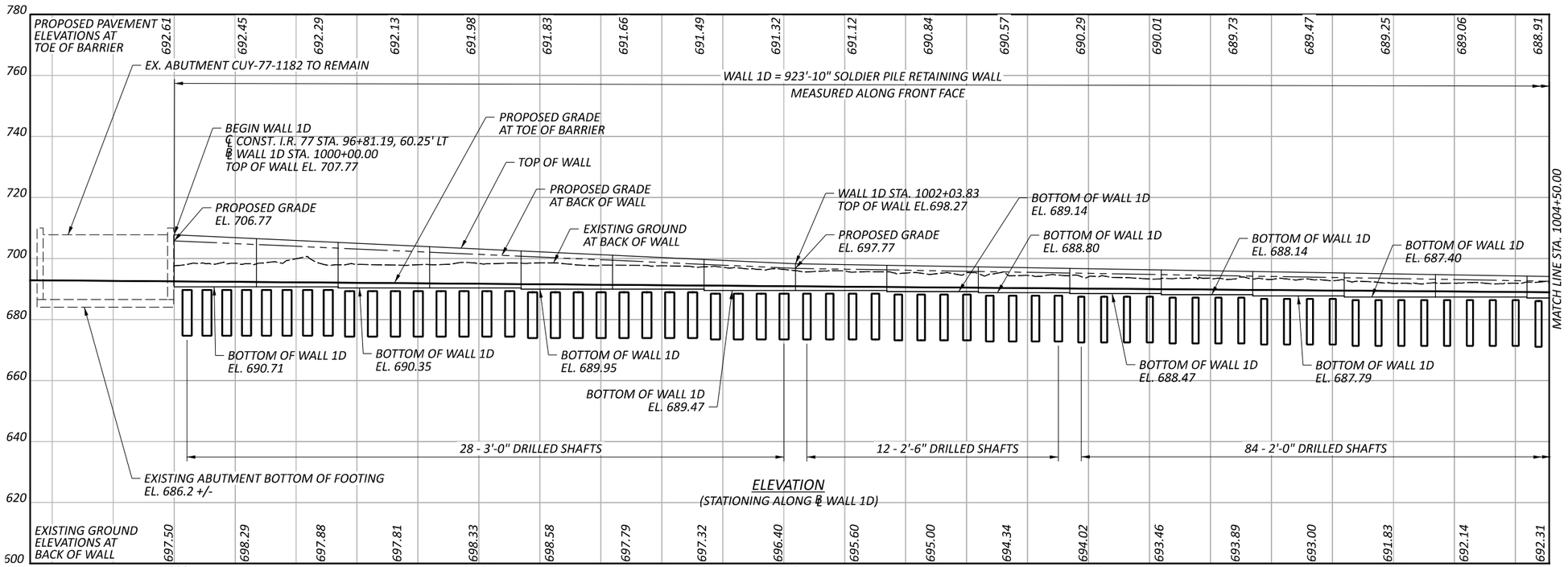
LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION.

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.




ELEVATION
(STATIONING ALONG ℄ WALL 1D)

SITE PLAN 1 OF 2
RETAINING WALL 1D

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 26 |
| SHEET | P.823 |
| TOTAL | P.1135 |

MODEL: CLP_2 - Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:00:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Structures\WALL01D\Sheets\105743_WAL01D_WP001.dgn

CURVE DATA I.R. 77
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc= 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

EX. EDGE OF DRIVEWAY
EX. EDGE OF DRIVEWAY
EX. EDGE OF DRIVEWAY
EX. FENCE TO REMAIN
EX. FENCE TO REMAIN
PC WALL 1D STA. 1006+53.83
℄ CONST. I.R. 77 STA. 103+35.20, 75.52' LT
PROP. UNLINED DRAINAGE DITCH
EX. LIGHT POLE TO BE REMOVED (TYP.)
N38°33'03"W
B-051-0-020
X 008 1 18
B-008-0-18
FRONT FACE AND ℄ WALL 1D
PROP. 66" STORM SEWER
PROP. TYPE D CONC. BARRIER
TYPE B1 CONC. BARRIER MEDIAN
MATCH LINE STA. 1004+50.00
STA. 103+25.93
PC STA. 1006+53.83
PROP. STORM INLET D-40
PROP. 15" STORM SEWER
PROP. MANHOLE D-39
PROP. 66" STORM SEWER
PROP. EOP
EX. 15" STORM (TBA)
PROP. EOP
PROP. SHOULDER
EX. STORM INLET (TBA)
EX. 42" STORM (TBA)
EX. 42" STORM (TBA)
EX. CATCH BASIN (TBA)
℄ CONST. I.R. 77
EX. 42" STORM (TBA)
END WALL 1D
℄ CONST. I.R. STA. 106+00.55, 82.14' LT
℄ WALL 1D STA. 1009+23.83
POT STA. 1009+27.53
PROP. STORM INLET D-42
PROP. 15" STORM SEWER
℄ CONST. RAMP B2
POT STA. 200+00.00
℄ CONST. I.R. 77
STA. 106+05.24, 72.50' LT
POT STA. 1008+27.53
PROP. MANHOLE D-41
16'-0"
36'-0"
12'-0" 12'-0" 12'-0"
11'-6" 11'-6"
8'-0"
16'-0"
9'-0"
36'-0"
11'-6" 11'-6"
2:1
2:1
2:1
102
103
104
105
106

CURVE DATA I.R. 77
P.I. = STA. 1007+90.72
Δ = 3°26'20" RT
Dc= 01°15'23"
R = 4,560.28'
T = 136.89'
L = 273.70'
E = 2.05'

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

## PLAN

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION.

PROPOSED PAVEMENT ELEVATIONS AT TOE OF BARRIER
688.77 688.61 688.44 688.27 688.10 687.90 687.70 687.50 687.31 687.13 687.01 686.88 686.54 686.19 685.85 685.51 685.17 684.82 684.48

WALL 1D = 923'-10" SOLDIER PILE RETAINING WALL
MEASURED ALONG FRONT FACE

MATCH LINE STA. 1004+50.00

TOP OF WALL
EXISTING GROUND AT BACK OF WALL
WALL 1D STA. 1005+63.83
TOP OF WALL EL. 692.19
PROPOSED GRADE AT BACK OF WALL
WALL 1D STA. 1006+53.83
TOP OF WALL EL. 691.48
PROPOSED GRADE AT TOE OF BARRIER
WALL 1D STA. 1007+43.83
TOP OF WALL EL. 690.83
BOTTOM OF WALL 1D EL. 684.88
WALL 1D STA. 1008+33.83
TOP OF WALL EL. 689.70
END WALL 1D
℄ CONST. I.R. 77 STA. 106+00.55, 82.14' LT
℄ WALL 1D STA. 1009+23.83
TOP OF WALL EL. 688.27
PROPOSED GRADE EL. 685.55

BOTTOM OF WALL 1D EL. 687.03
BOTTOM OF WALL 1D EL. 686.63
BOTTOM OF WALL 1D EL. 686.16
BOTTOM OF WALL 1D EL. 685.69
BOTTOM OF WALL 1D EL. 685.25
BOTTOM OF WALL 1D EL. 684.46
BOTTOM OF WALL 1D EL. 684.05
BOTTOM OF WALL 1D EL. 683.64
BOTTOM OF WALL 1D EL. 682.62
BOTTOM OF WALL 1D EL. 683.16

## ELEVATION

(STATIONING ALONG ℄ WALL 1D)

84 - 2'-0" DRILLED SHAFTS

760 740 720 700 680 660 640 620 600

EXISTING GROUND ELEVATIONS AT BACK OF WALL
691.61 691.38 691.51 692.12 691.86 690.78 690.65 690.24 690.30 689.89 689.17 689.02 688.76 688.70 688.73 688.58 688.18 687.44 687.07

1005 1006 1007 1008 1009

SITE PLAN 2 OF 2
RETAINING WALL 1D

DESIGN AGENCY
TRC
DESIGNER
CEJ
REVIEWER
CJW 11/17/25
PROJECT ID
105743
SUBSET 2 TOTAL 26
SHEET P.824 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_2 - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:00:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01D\Sheets\105743_WALL01D_WP001.dgn

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x36

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16X50

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x55

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W24x68

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W24X84

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W27x94

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W27X129

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W27X84

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 23/26 AND 24/26. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 24" DIAMETER ABOVE BEDROCK, AS PER PLAN

## ITEM 524 - DRILLED SHAFT, 30" DIAMETER ABOVE BEDROCK, AS PER PLAN

## ITEM 524 - DRILLED SHAFT, 36" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA./Ø - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 1D

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 3 / 26 |
| SHEET / TOTAL | P.825 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet-1 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:00:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCeV02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## ESTIMATED QUANTITIES (WALL 1D)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 503 | 21101 | | CY | UNCLASSIFIED EXCAVATION, AS PER PLAN | 22 |
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W16X36 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W16X50 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W21X55 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W24X68 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W24X84 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W27X94 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W27X129 | 3 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W27X84 | 3 |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING | 25 |
| | | | | | |
| 512 | 10001 | | SY | SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION) | 3 |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 3 |
| 512 | 33001 | | SY | TYPE 2 WATERPROOFING, AS PER PLAN | 3 |
| | | | | | |
| 513 | 20001 | | EACH | WELDED STUD SHEAR CONNECTORS, AS PER PLAN | 3 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| | | | | | |
| 524 | 94503 | | FT | DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN | 3 |
| 524 | 94603 | | FT | DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN | 3 |
| 524 | 94703 | | FT | DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK, AS PER PLAN | 3 |
| | | | | | |
| SPECIAL | 53051020 | | SF | RETAINING WALL, TIMBER LAGGING | 3 |
| | | | | | |



DESIGN AGENCY
TRC
DESIGNER
CEJ
REVIEWER
CJW 11/17/25
PROJECT ID
105743
SUBSET 4 | TOTAL 26
SHEET P.826 | TOTAL P.1135

CUY-77-11.41 - PART 1
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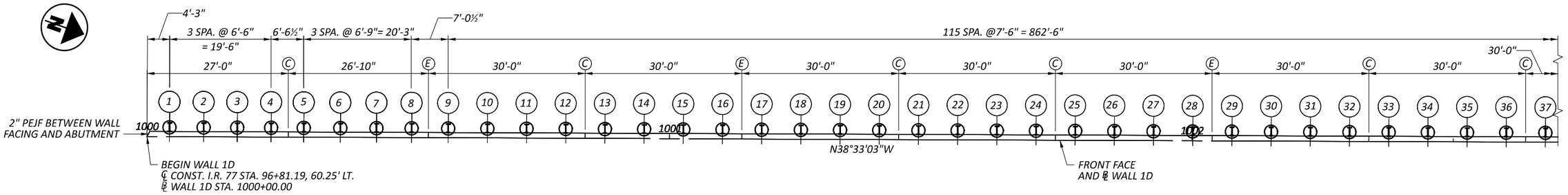
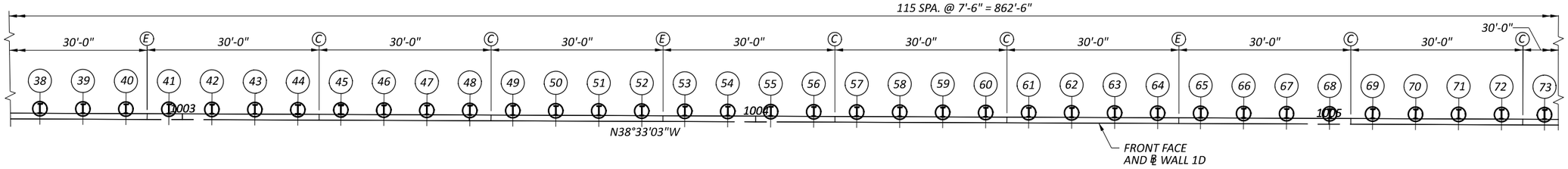
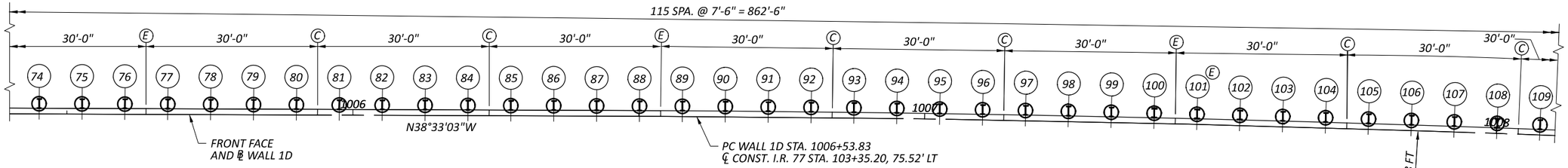
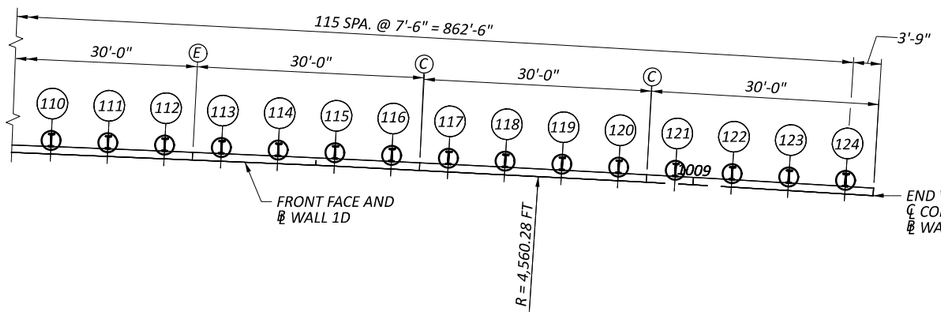


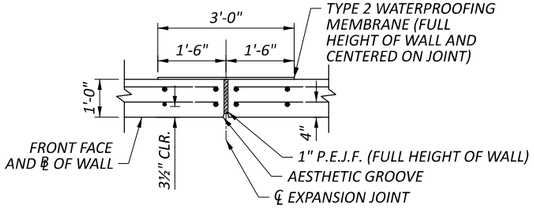



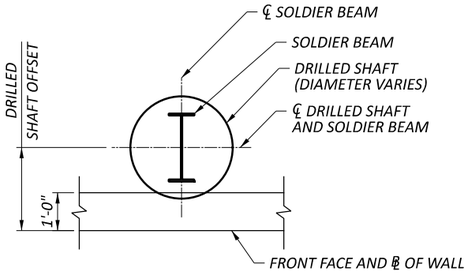




## GENERAL PLAN

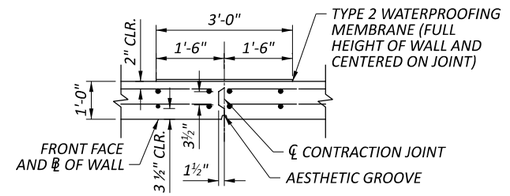
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)




## EXPANSION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL




## CONTRACTION JOINT DETAIL

## NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEET 6/26 THRU 21/26.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 23/26 AND 24/26.
3. FOR AESTHETIC GROOVE DETAILS, SEE SHEET 25/26.

## LEGEND:

- Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

# PILE LAYOUT
# RETAINING WALL 1D

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 5 TOTAL: 26
SHEET: P.827 TOTAL: P.1135

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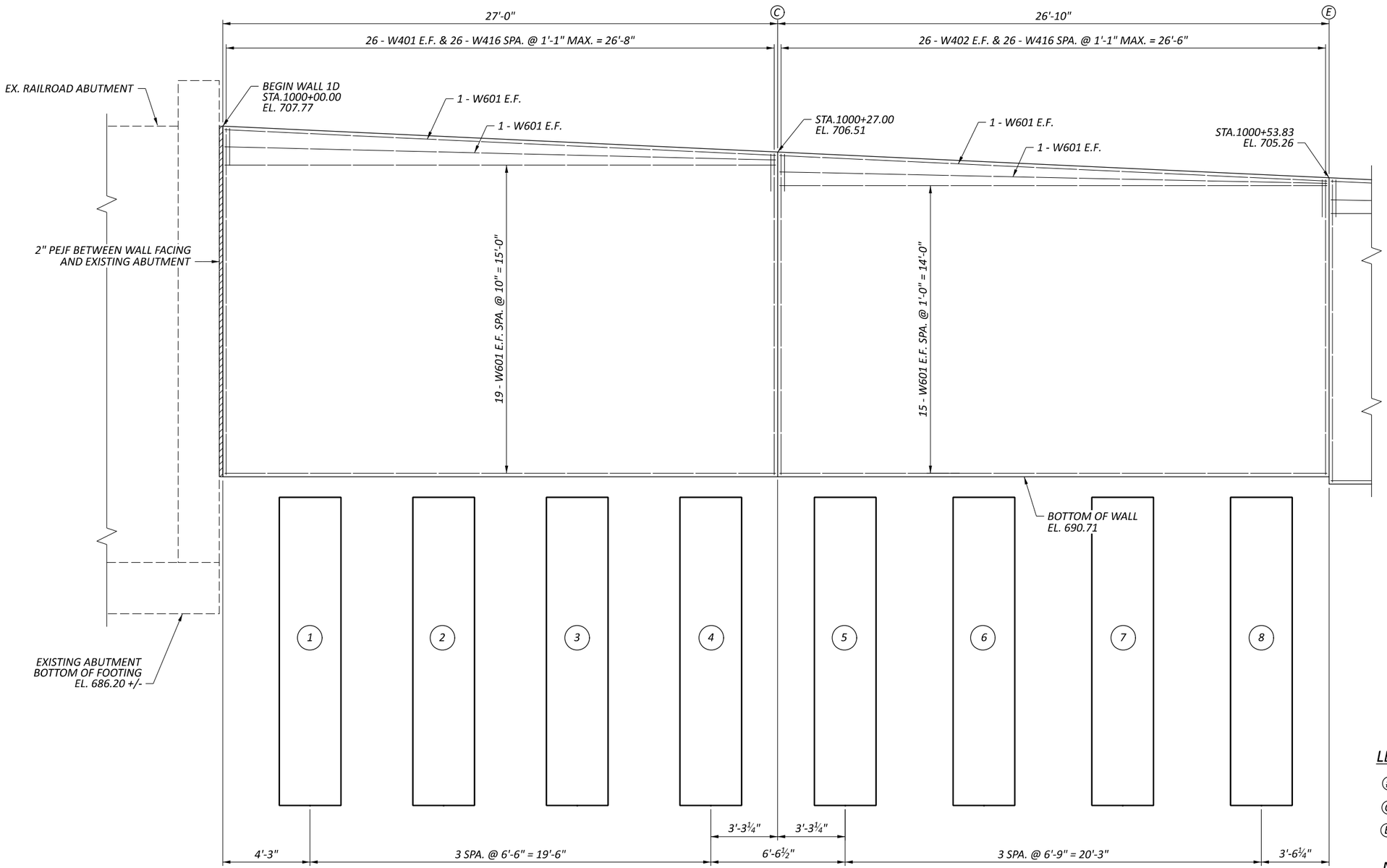


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 26 |
| SHEET / TOTAL | P.828 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 1-2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:00:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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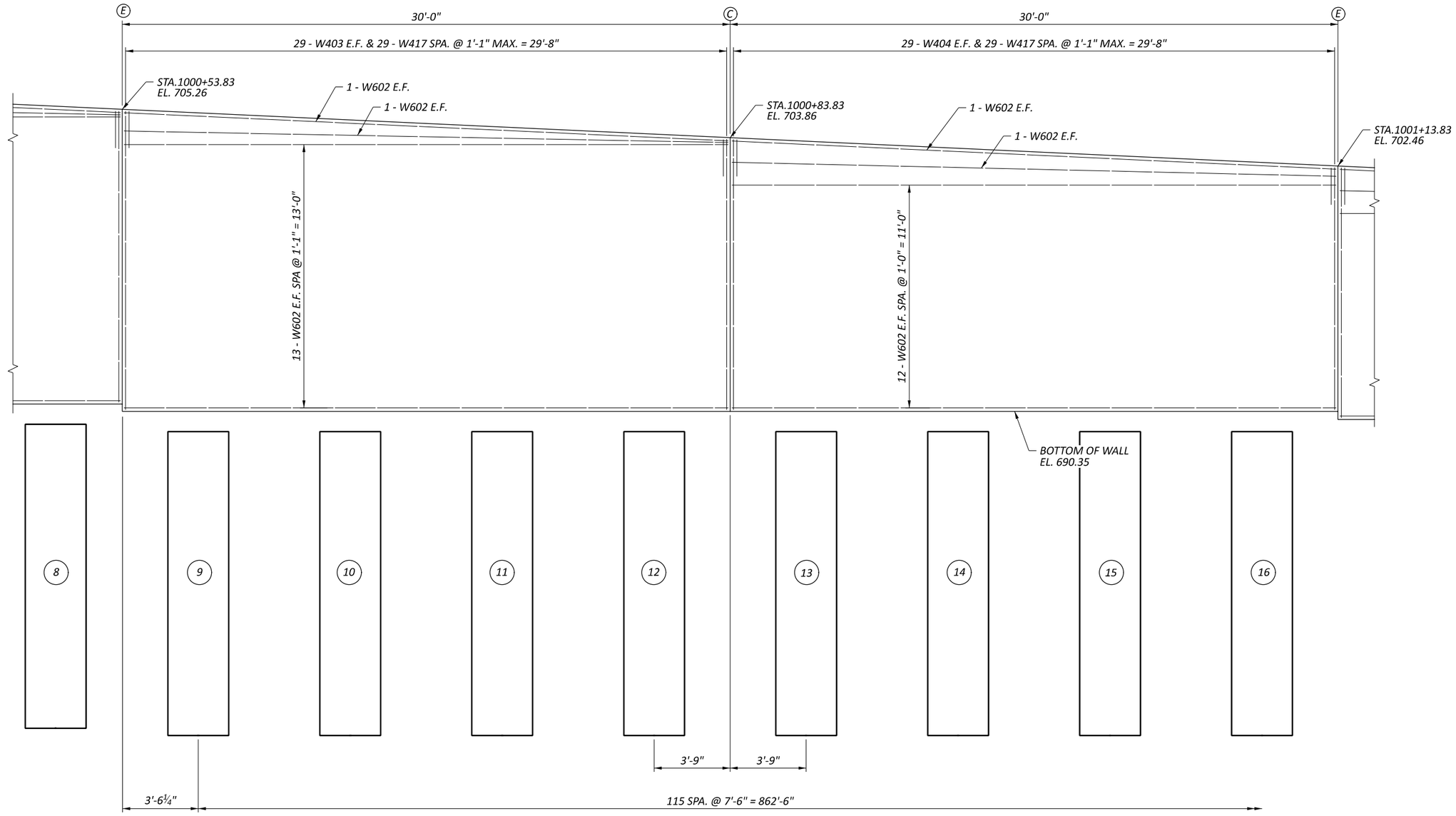


PARTIAL ELEVATION

## LEGEND:

(#) - DRILLED SHAFT NUMBER

(C) - CONTRACTION JOINT

(E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 26 |
| SHEET / TOTAL | P.829 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 3-4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:00:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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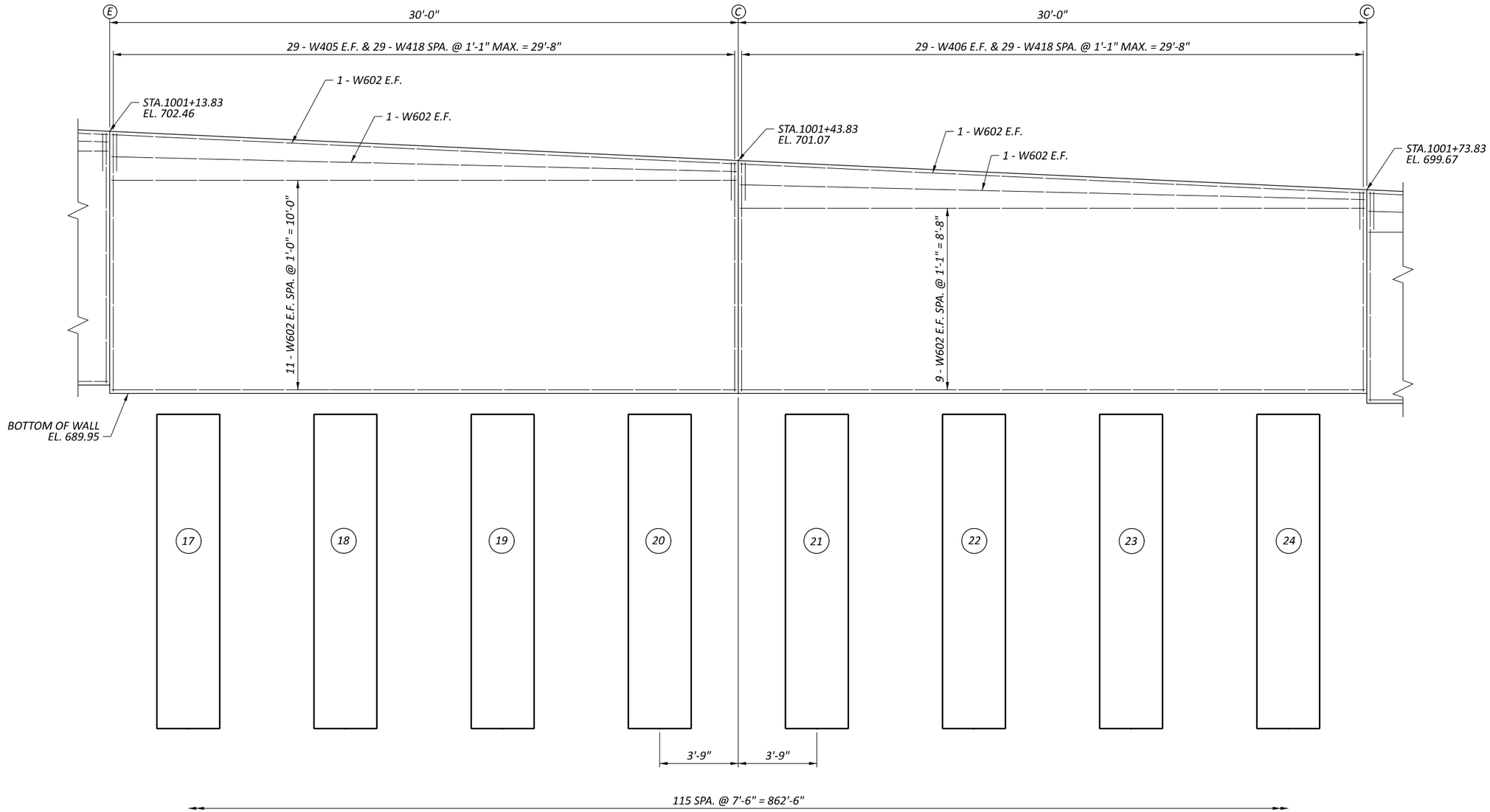


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 26 |
| SHEET / TOTAL | P.830 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 5-6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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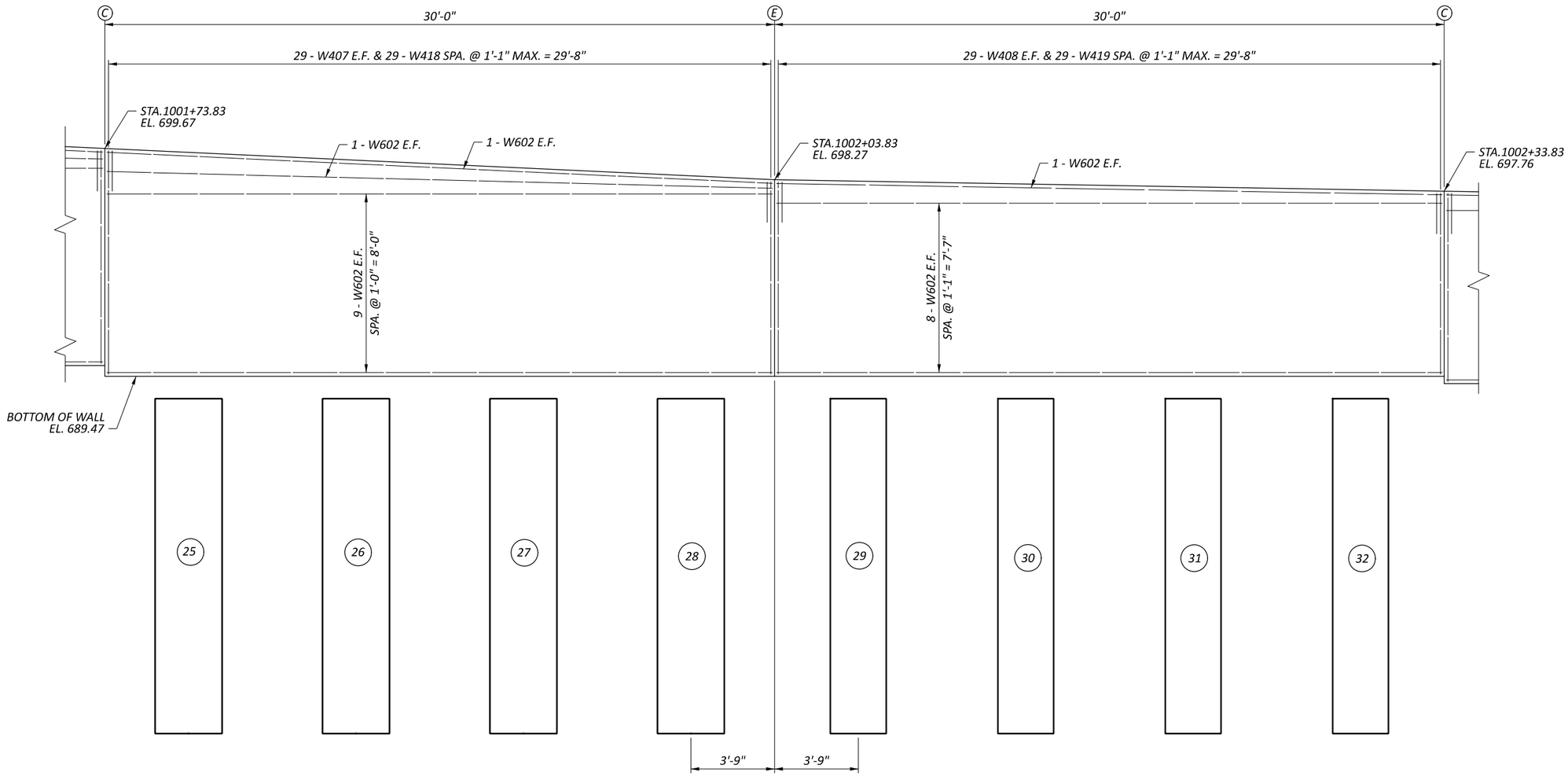



## PARTIAL ELEVATION

**LEGEND:**

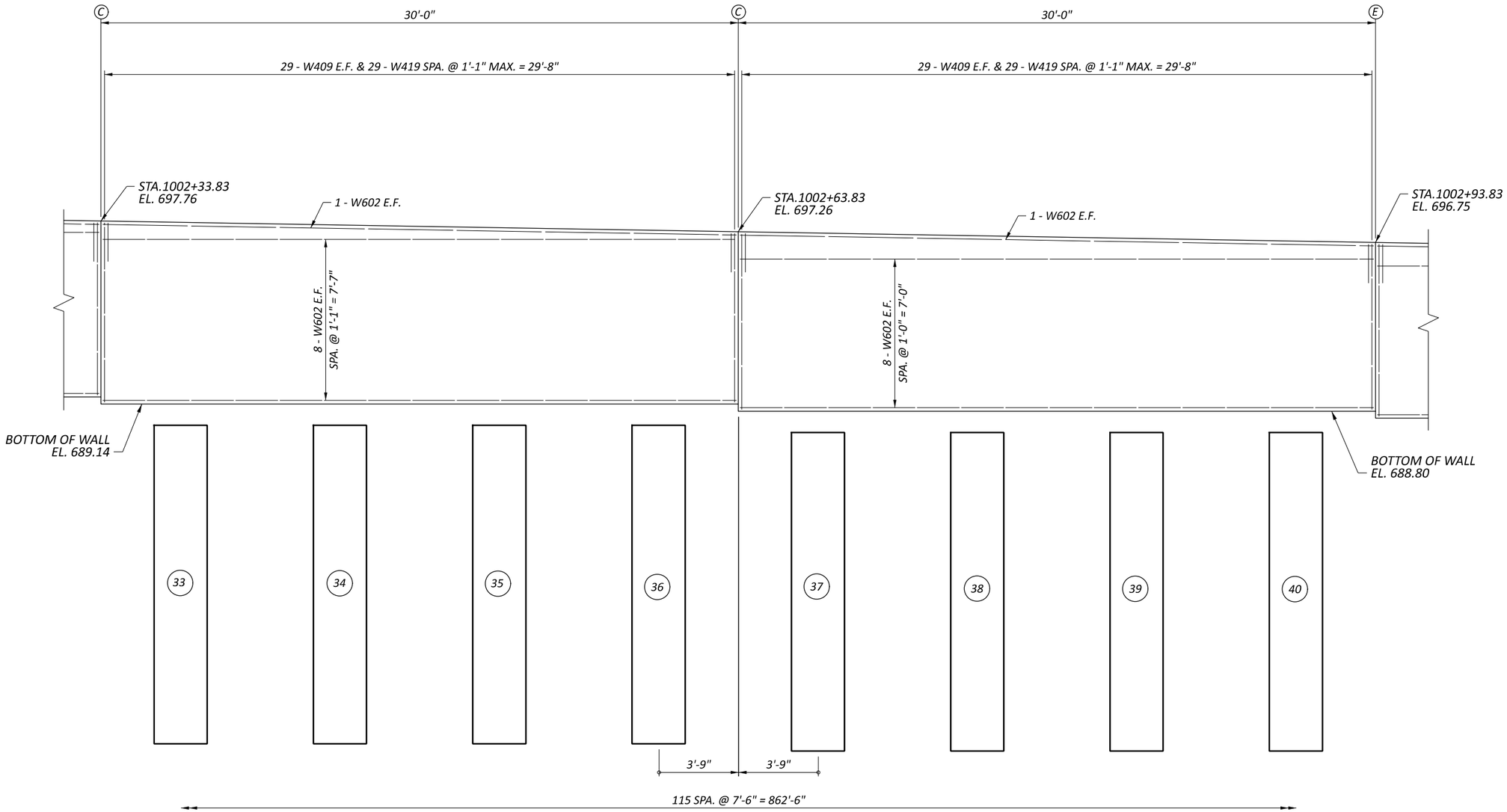
- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

| | |
|---|---|
| DESIGN AGENCY | TRC |
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 9 / 26 |
| SHEET / TOTAL | P.831 / P.1135 |




PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 10 |
| TOTAL | 26 |
| SHEET | P.832 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 9-10 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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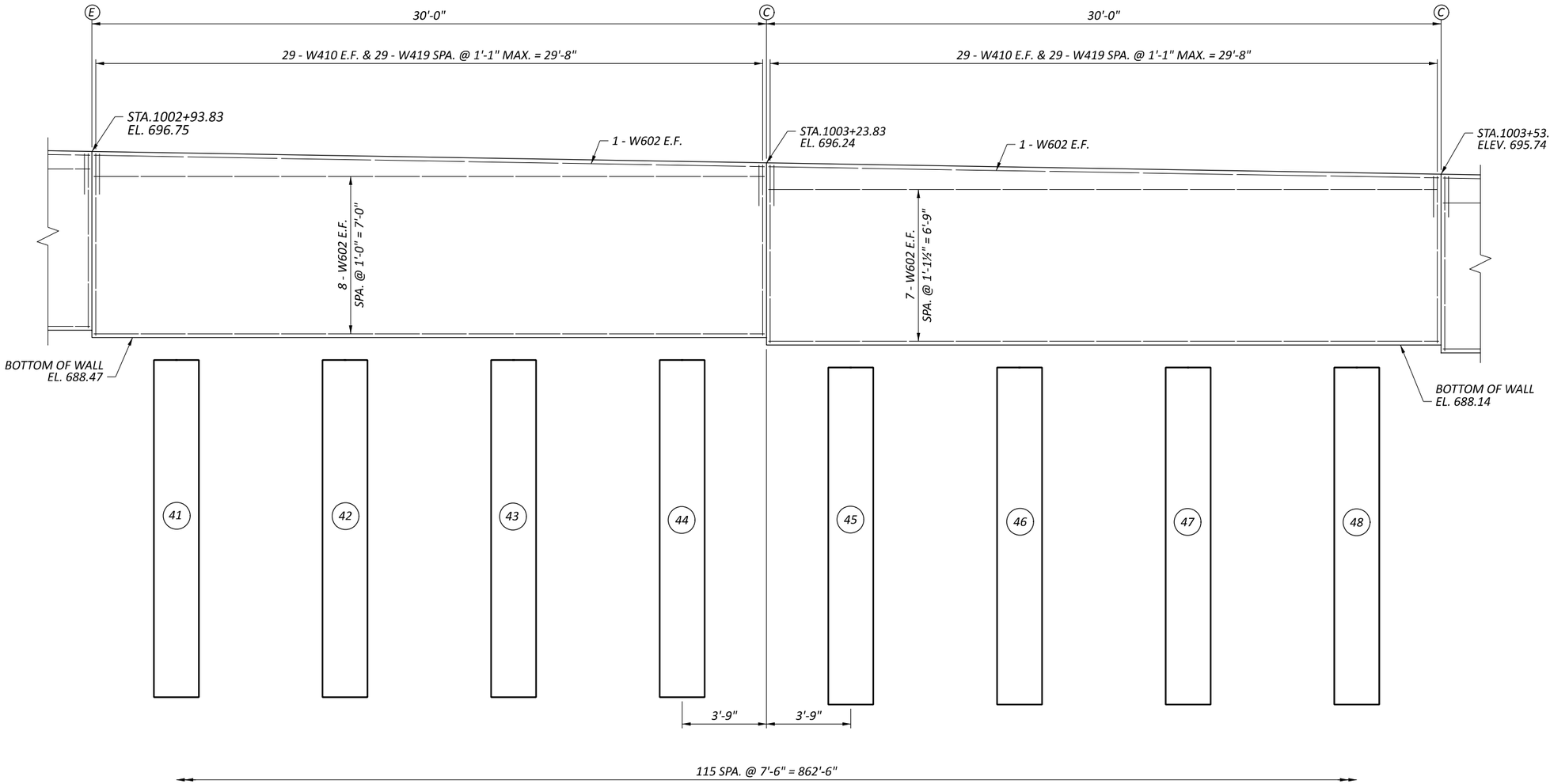


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 11 / 26 |
| SHEET / TOTAL | P.833 / P.1135 |

CUY-77-11.41 - PART 1

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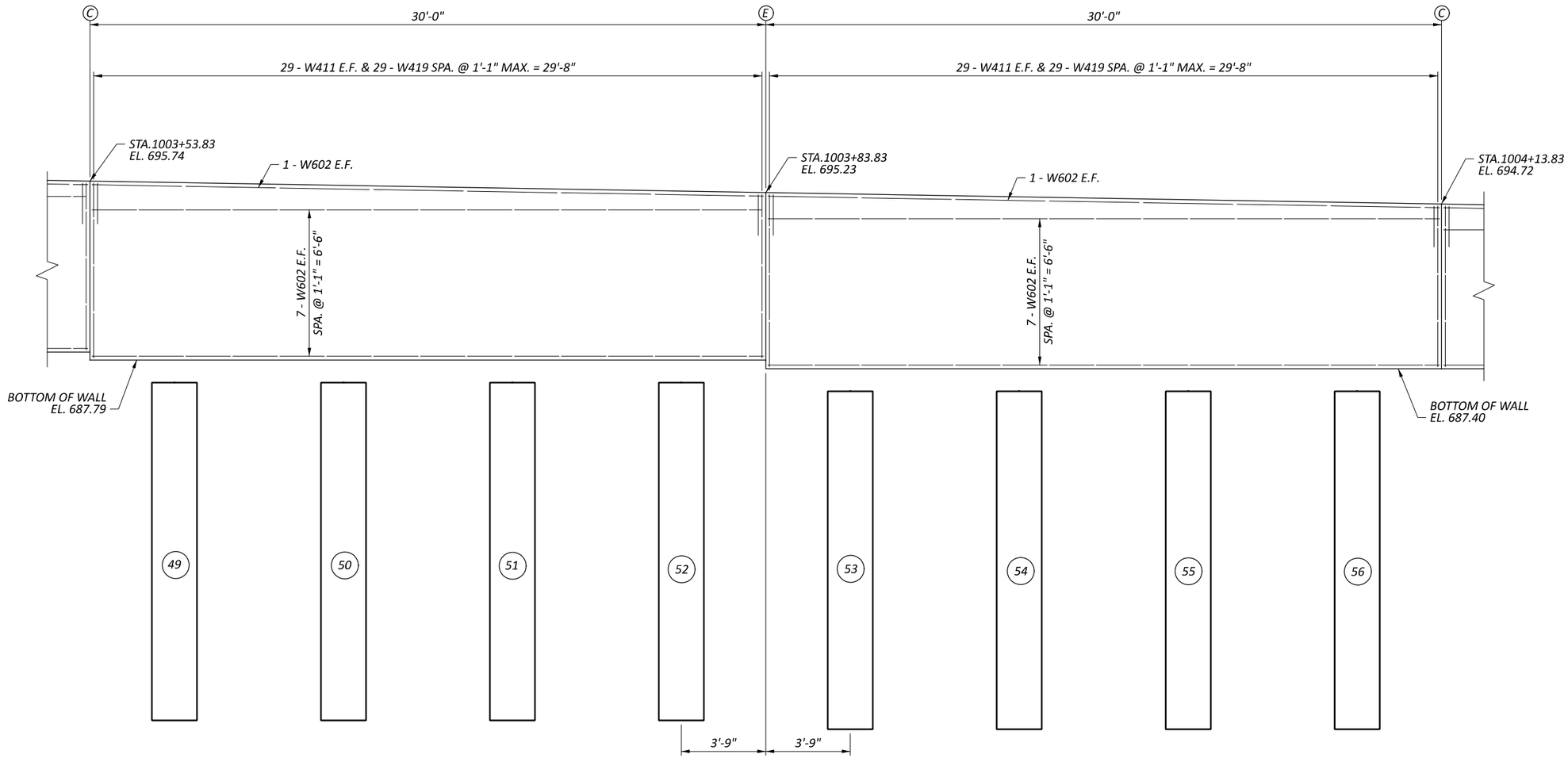


## PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 12 / 26 |
| SHEET / TOTAL | P.834 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 13-14 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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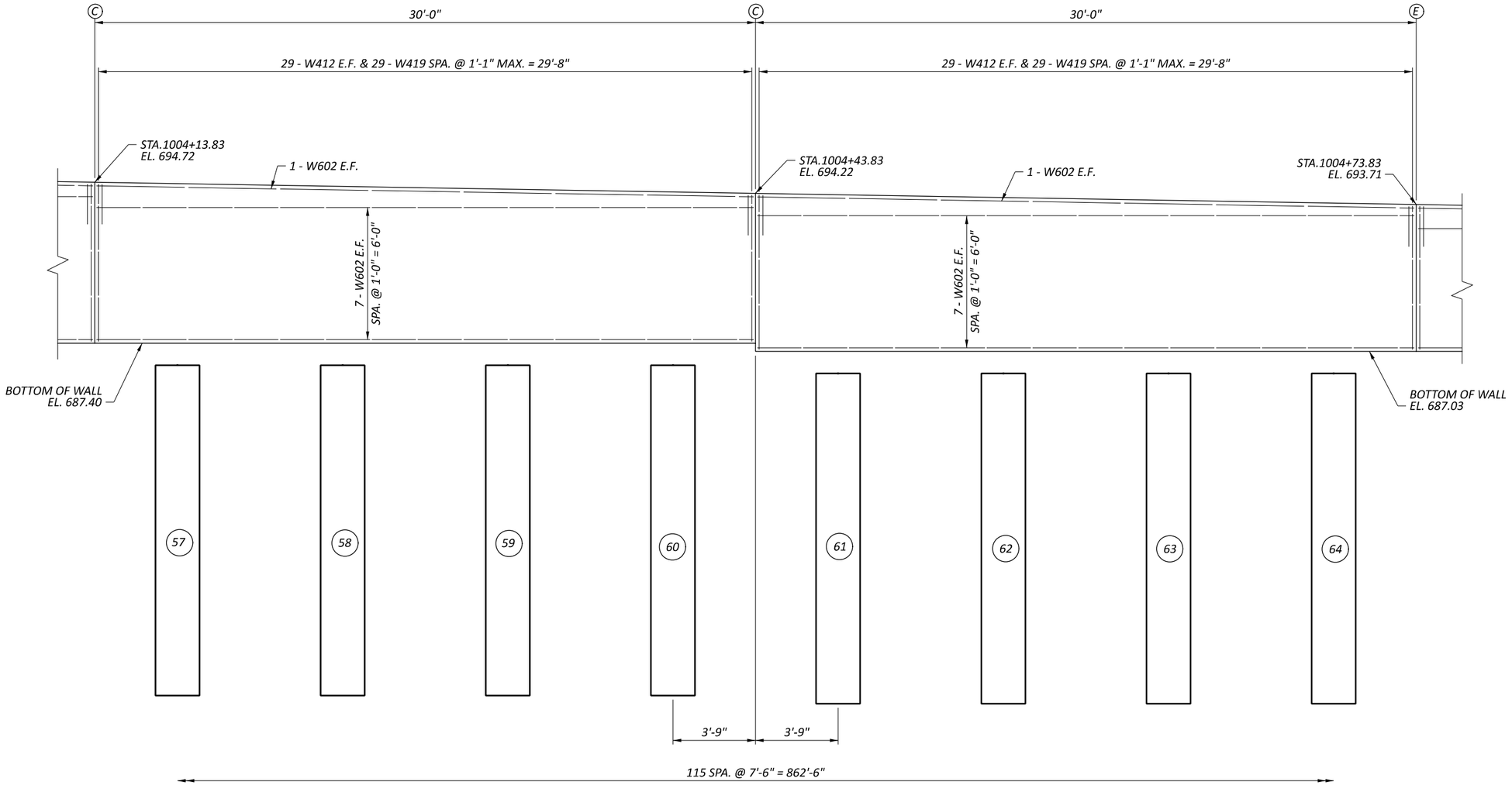


## PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 13 / 26 |
| SHEET / TOTAL | P.835 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 15-16 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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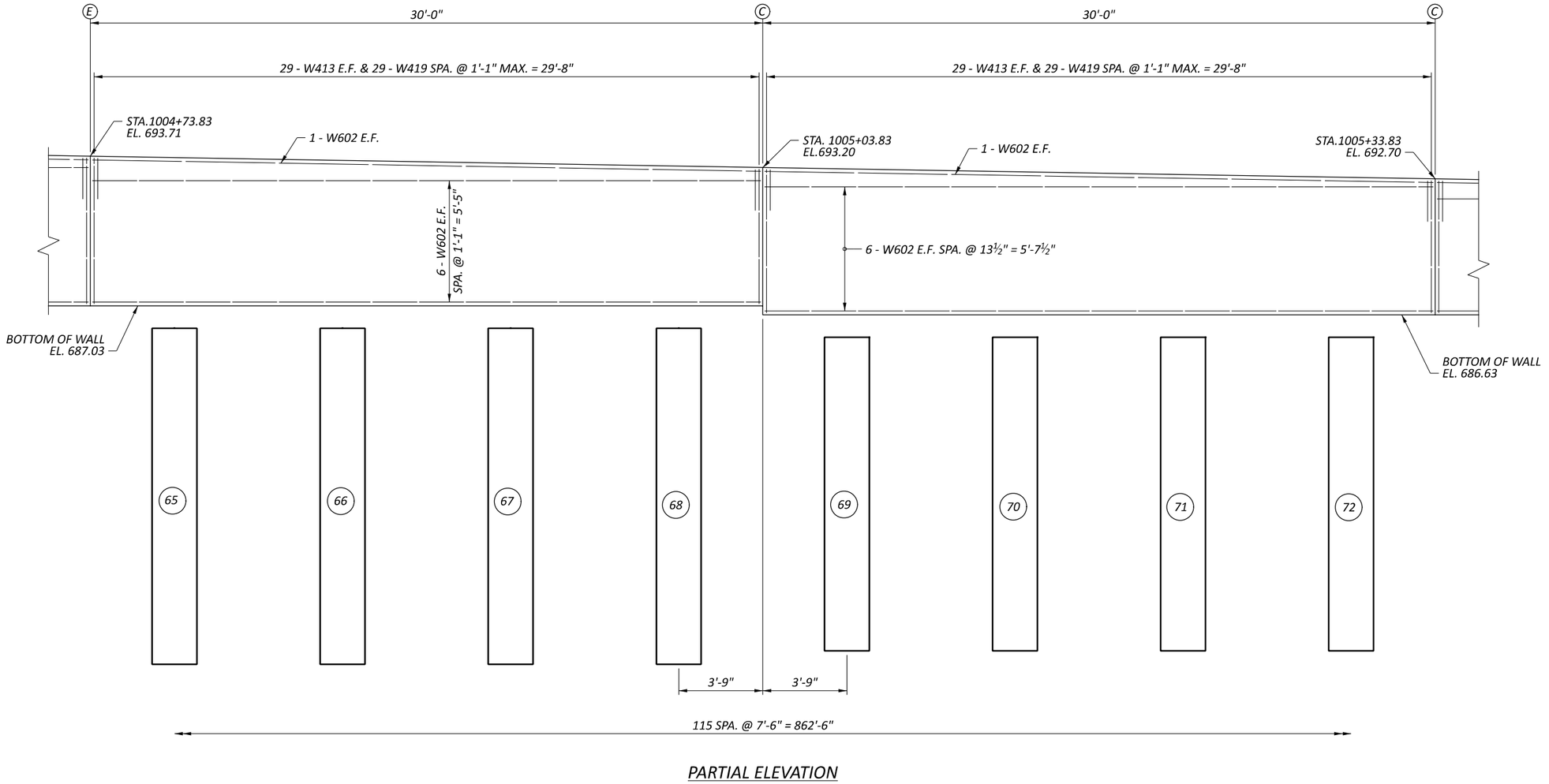


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 14 / 26 |
| SHEET / TOTAL | P.836 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 17-18 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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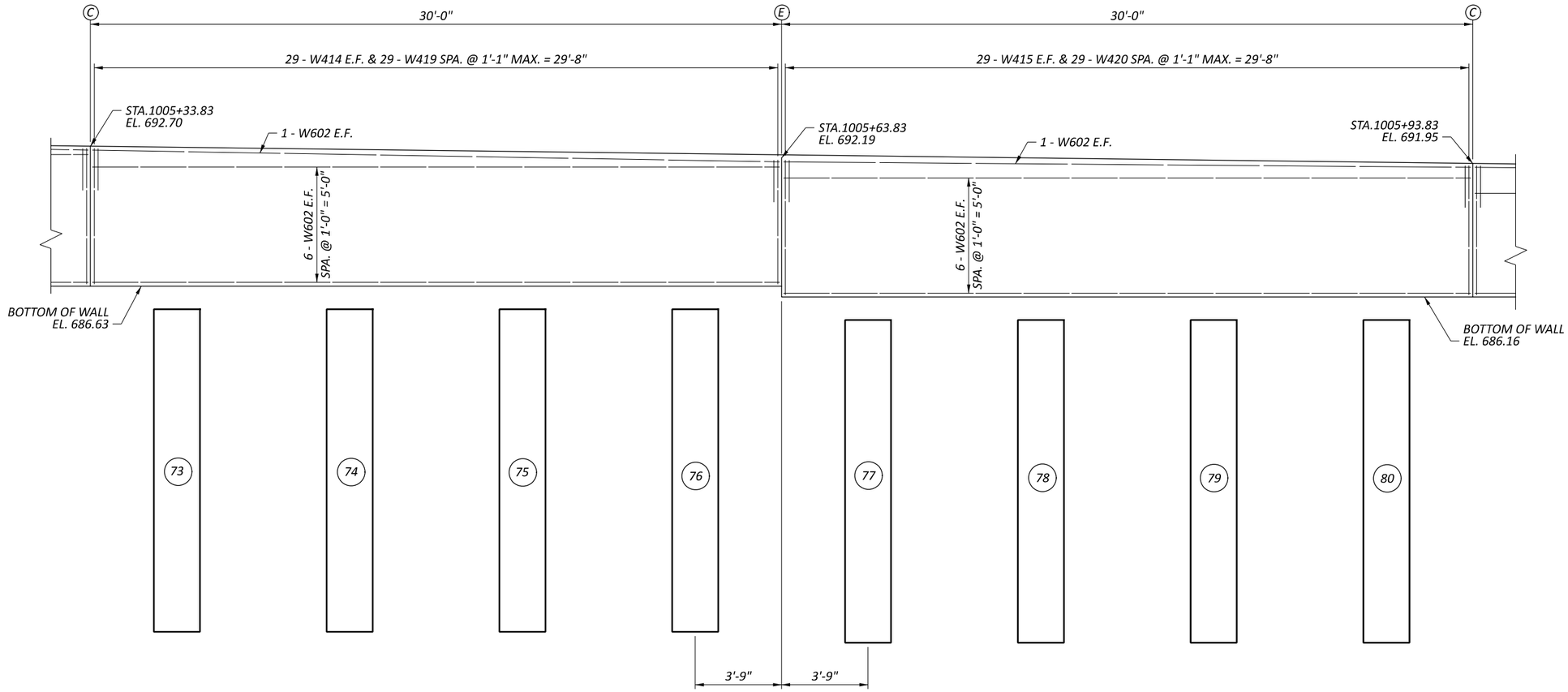


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 15 / 26 |
| SHEET / TOTAL | P.837 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 19-20 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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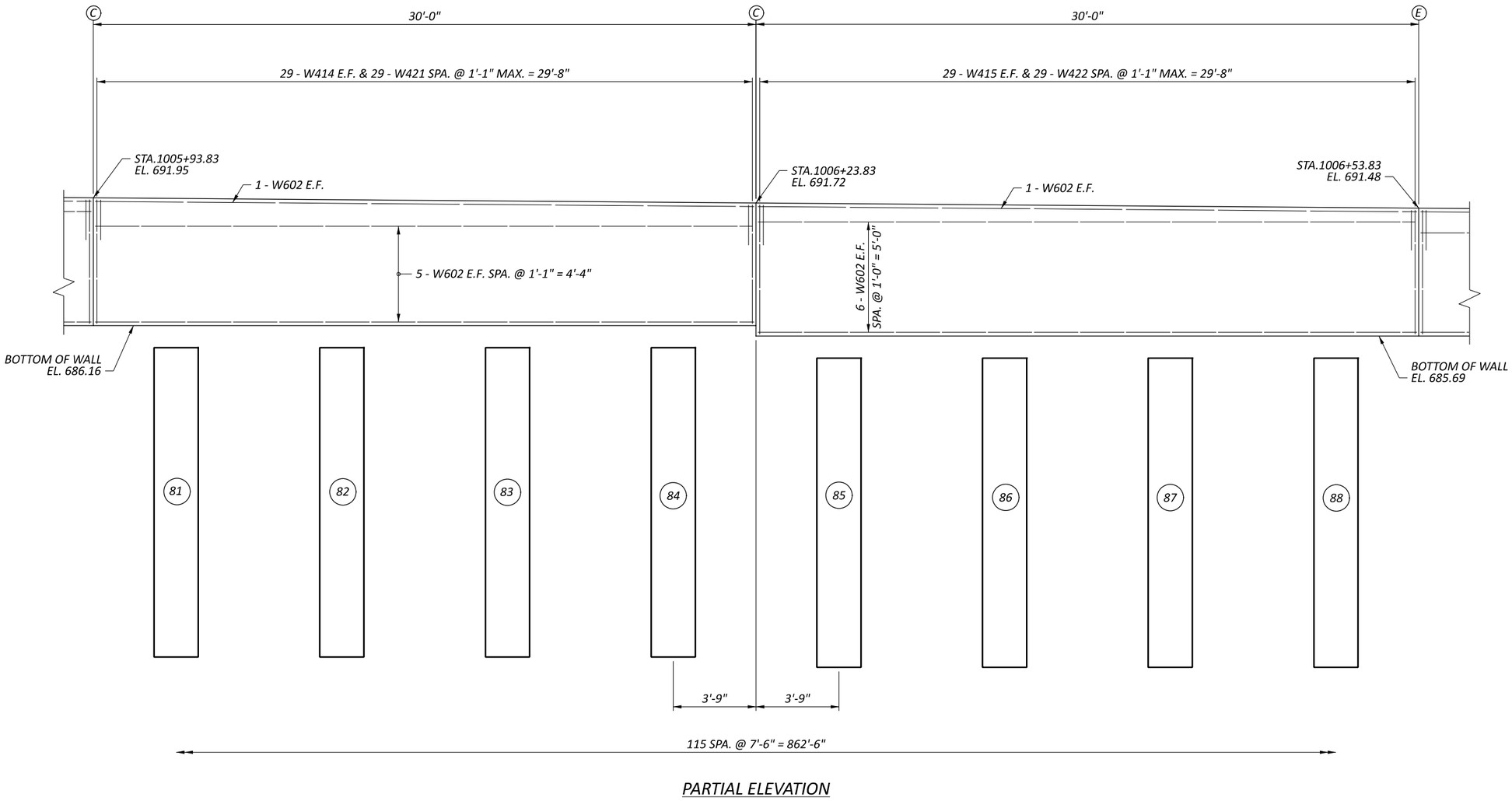


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 16 / 26 |
| SHEET / TOTAL | P.838 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 21-22 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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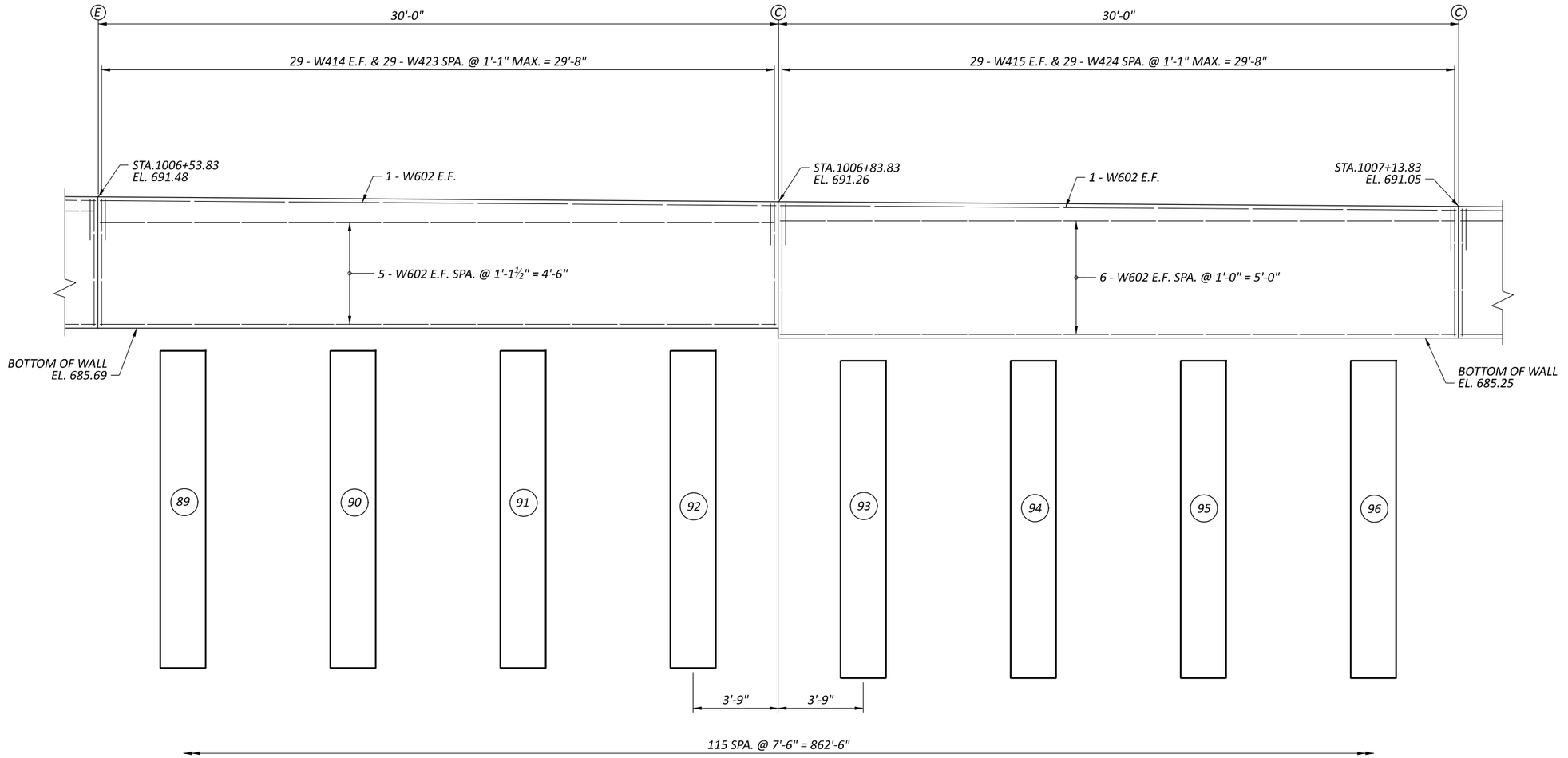


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 17 / 26 |
| SHEET / TOTAL | P.839 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 23-24 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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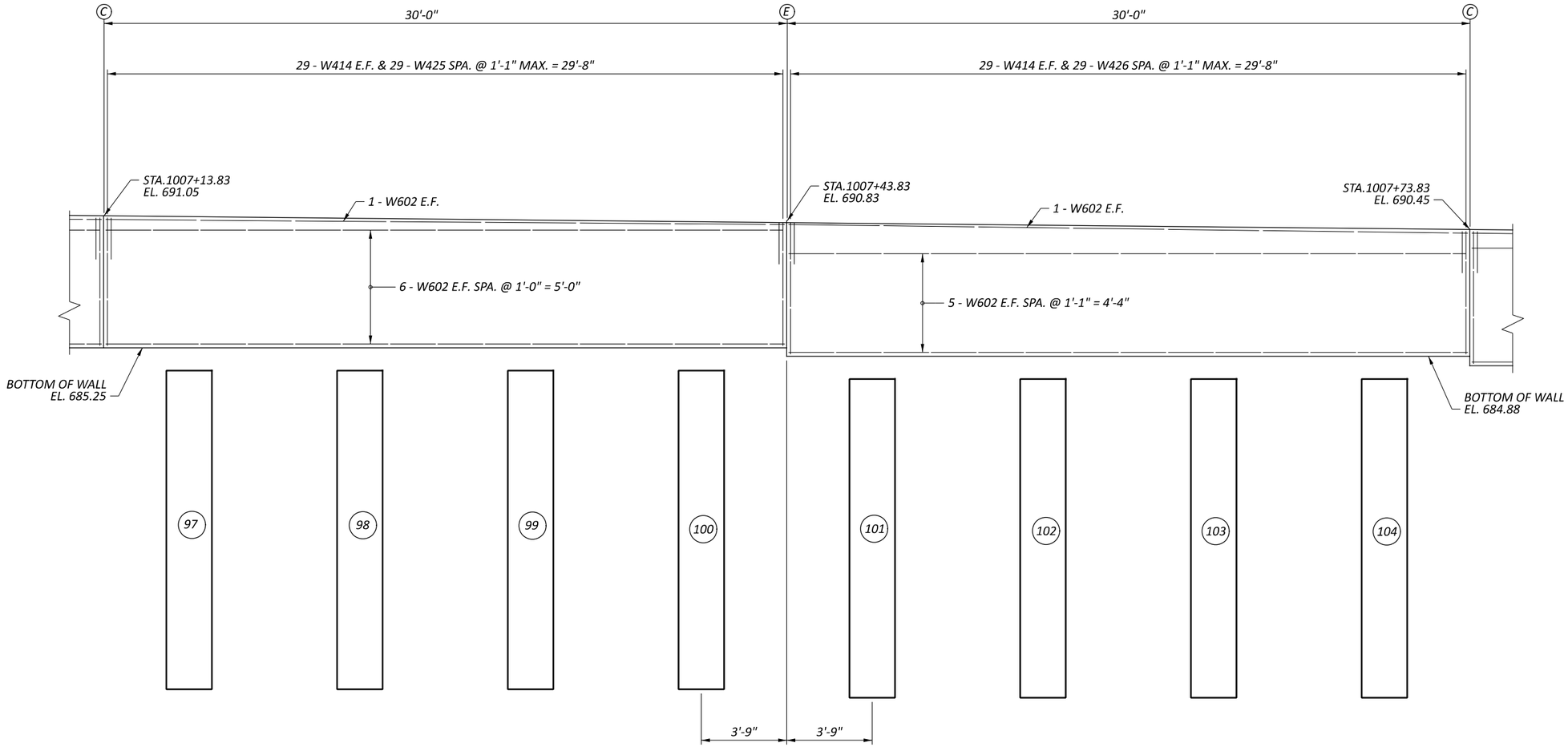


## PARTIAL ELEVATION

### LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 18 / 26 |
| SHEET / TOTAL | P.840 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 25-26 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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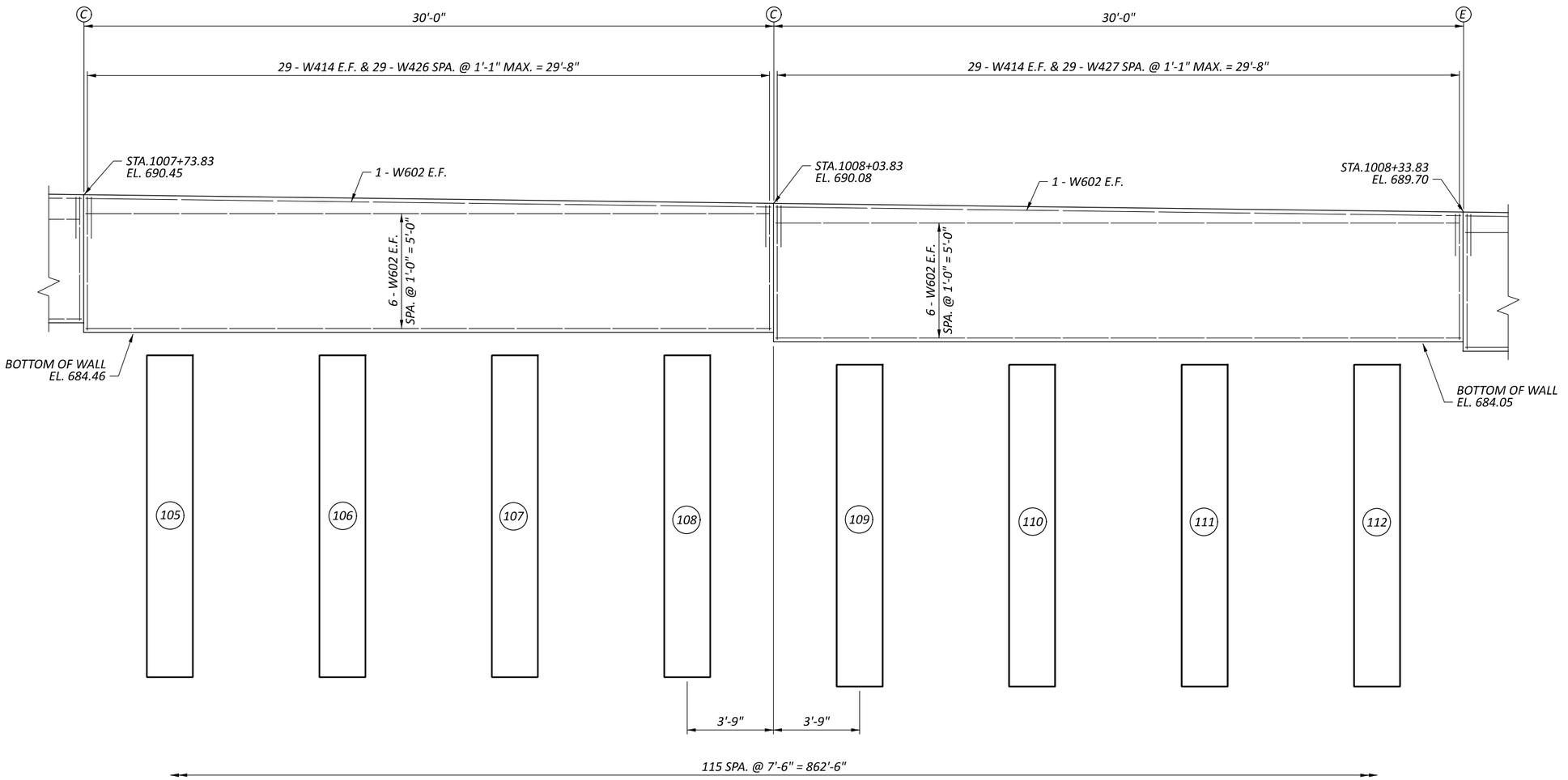


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 19 / 26 |
| SHEET / TOTAL | P.841 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 27-28 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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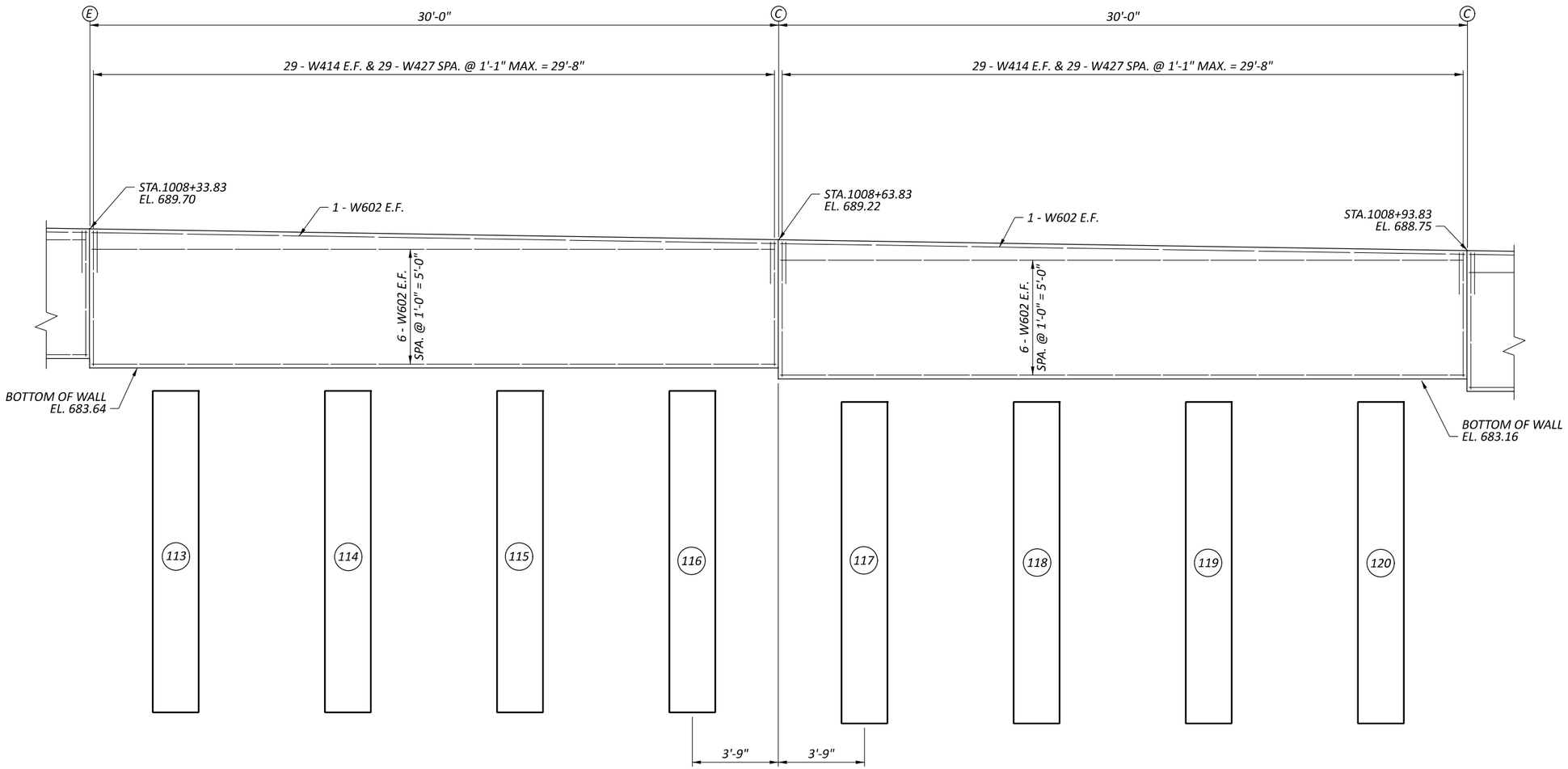


PARTIAL ELEVATION

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 20 / 26 |
| SHEET / TOTAL | P.842 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 29-30 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: Sheet Panel 31 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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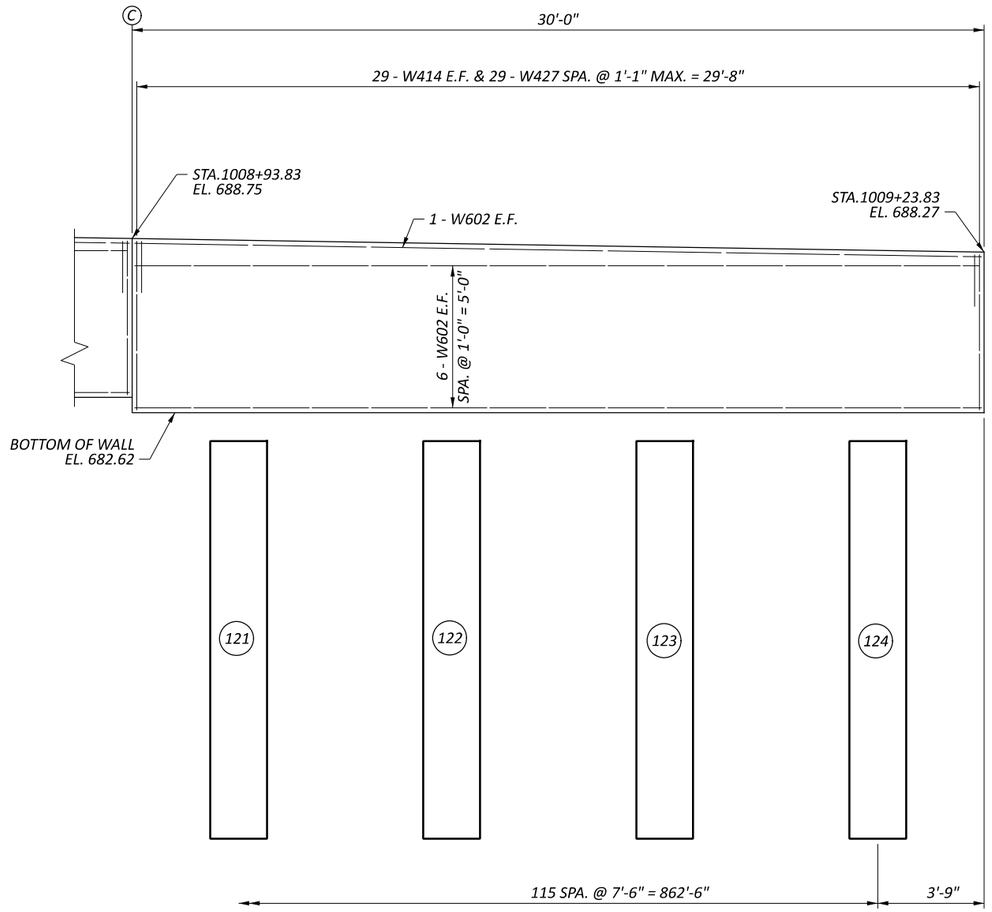



PARTIAL ELEVATION

## LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

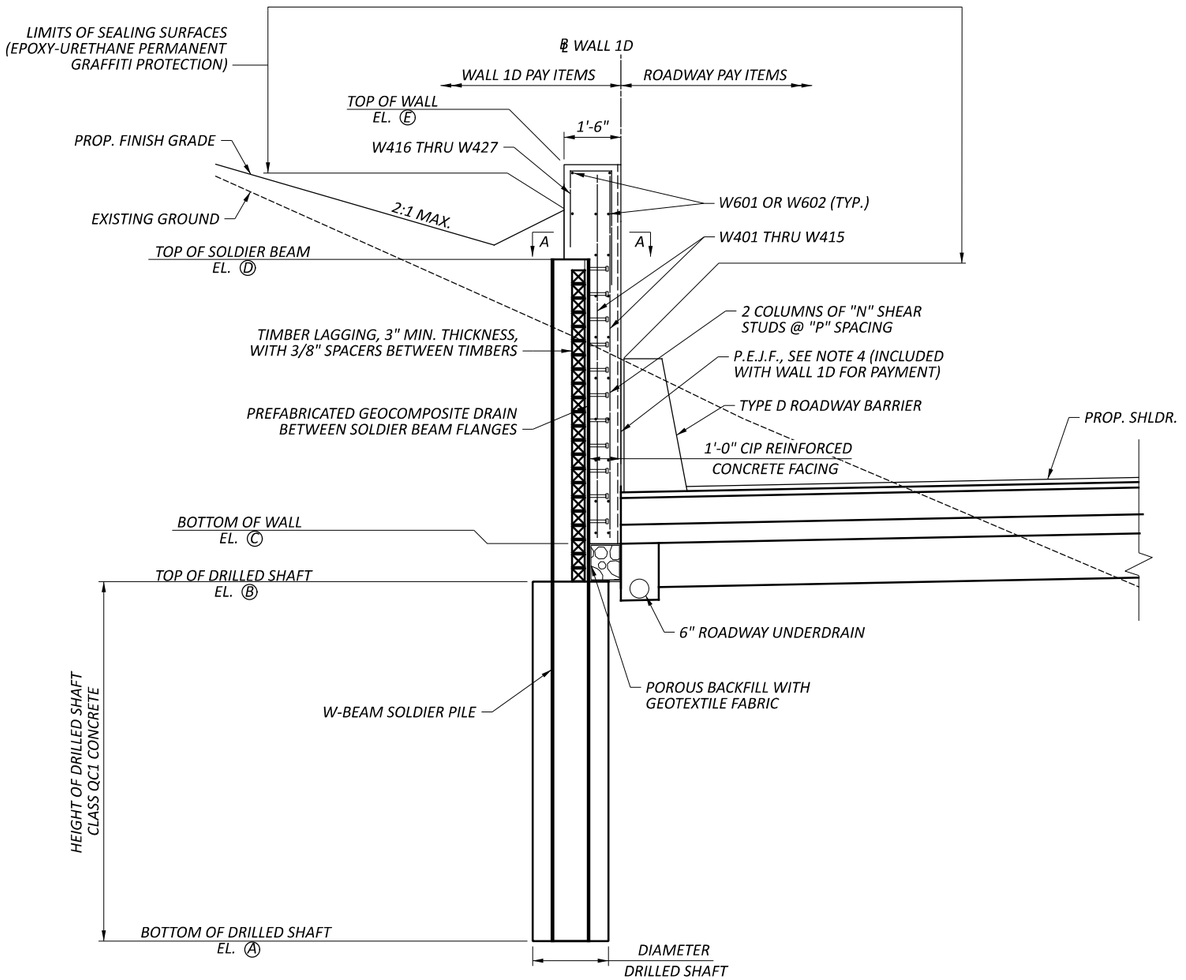
## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

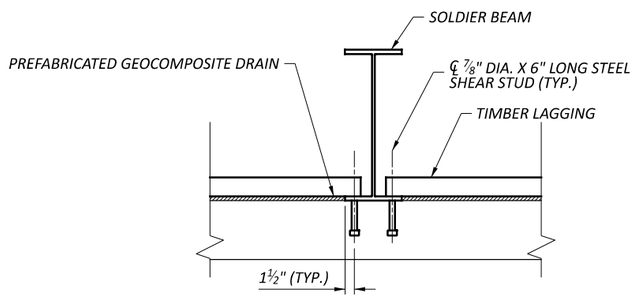
# WALL ELEVATIONS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

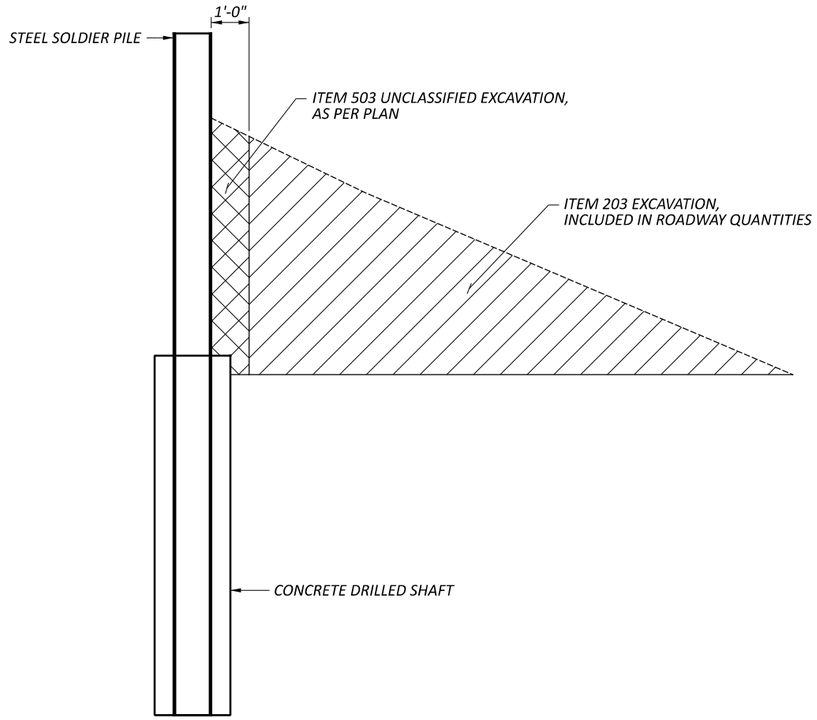
| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 21 / 26 |
| SHEET / TOTAL | P.843 / P.1135 |




## WALL 1D TYPICAL SECTION




## SECTION A-A




## EXCAVATION SCHEMATIC

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. THICKNESS OF PREFORMED EXPANSION JOINT FILLER VARIES FROM 1" TO 2½". AN AVERAGE THICKNESS OF 2" IS ASSUMED FOR COST ESTIMATE.
5. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
6. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEETS 23/26 AND 24/26.

# TYPICAL SECTION RETAINING WALL 1D

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 22 | TOTAL 26

SHEET P.844 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:17 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Structures\WALL01D\Sheets\105743_WALL01D_WY001.dgn

| DRILLED SHAFT NUMBER | WALL 1D STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1000+04.25 | 2.15 LT | 671.71 | 689.71 | 690.71 | 704.58 | 707.57 | 32.87 | 36.00 | W27X129 | 15 | 11.25 in |
| 2 | 1000+10.75 | 2.15 LT | 671.71 | 689.71 | 690.71 | 704.30 | 707.27 | 32.59 | 36.00 | W27X129 | 15 | 11.00 in |
| 3 | 1000+17.25 | 2.15 LT | 671.71 | 689.71 | 690.71 | 704.01 | 706.97 | 32.30 | 36.00 | W27X129 | 14 | 11.75 in |
| 4 | 1000+23.75 | 2.15 LT | 671.71 | 689.71 | 690.71 | 703.72 | 706.66 | 32.01 | 36.00 | W27X129 | 14 | 11.50 in |
| 5 | 1000+30.29 | 2.12 LT | 673.71 | 689.71 | 690.71 | 703.43 | 706.36 | 29.72 | 36.00 | W27X94 | 14 | 11.25 in |
| 6 | 1000+37.04 | 2.12 LT | 673.71 | 689.71 | 690.71 | 703.13 | 706.04 | 29.42 | 36.00 | W27X94 | 13 | 11.75 in |
| 7 | 1000+43.79 | 2.12 LT | 673.71 | 689.71 | 690.71 | 702.84 | 705.73 | 29.13 | 36.00 | W27X94 | 13 | 11.50 in |
| 8 | 1000+50.54 | 2.12 LT | 673.71 | 689.71 | 690.71 | 702.54 | 705.41 | 28.83 | 36.00 | W27X94 | 13 | 11.25 in |
| 9 | 1000+57.58 | 2.11 LT | 671.35 | 689.35 | 690.35 | 702.23 | 705.09 | 30.88 | 36.00 | W27X84 | 13 | 11.25 in |
| 10 | 1000+65.08 | 2.11 LT | 671.35 | 689.35 | 690.35 | 701.90 | 704.74 | 30.55 | 36.00 | W27X84 | 13 | 11.00 in |
| 11 | 1000+72.58 | 2.11 LT | 671.35 | 689.35 | 690.35 | 701.57 | 704.39 | 30.22 | 36.00 | W27X84 | 12 | 11.50 in |
| 12 | 1000+80.08 | 2.11 LT | 671.35 | 689.35 | 690.35 | 701.23 | 704.04 | 29.88 | 36.00 | W27X84 | 12 | 11.25 in |
| 13 | 1000+87.58 | 2.00 LT | 673.35 | 689.35 | 690.35 | 700.90 | 703.69 | 27.55 | 36.00 | W24X84 | 12 | 10.75 in |
| 14 | 1000+95.08 | 2.00 LT | 673.35 | 689.35 | 690.35 | 700.57 | 703.34 | 27.22 | 36.00 | W24X84 | 11 | 11.50 in |
| 15 | 1001+02.58 | 2.00 LT | 673.35 | 689.35 | 690.35 | 700.24 | 702.99 | 26.89 | 36.00 | W24X84 | 11 | 11.25 in |
| 16 | 1001+10.08 | 2.00 LT | 673.35 | 689.35 | 690.35 | 699.91 | 702.64 | 26.56 | 36.00 | W24X84 | 11 | 10.75 in |
| 17 | 1001+17.58 | 2.00 LT | 674.95 | 688.95 | 689.95 | 699.58 | 702.29 | 24.63 | 36.00 | W24X84 | 11 | 10.75 in |
| 18 | 1001+25.08 | 2.00 LT | 674.95 | 688.95 | 689.95 | 699.25 | 701.94 | 24.30 | 36.00 | W24X84 | 10 | 11.50 in |
| 19 | 1001+32.58 | 2.00 LT | 674.95 | 688.95 | 689.95 | 698.92 | 701.59 | 23.97 | 36.00 | W24X84 | 10 | 11.25 in |
| 20 | 1001+40.08 | 2.00 LT | 674.95 | 688.95 | 689.95 | 698.58 | 701.24 | 23.63 | 36.00 | W24X84 | 10 | 10.75 in |
| 21 | 1001+47.58 | 1.99 LT | 676.95 | 688.95 | 689.95 | 698.25 | 700.89 | 21.30 | 36.00 | W24X68 | 9 | 11.50 in |
| 22 | 1001+55.08 | 1.99 LT | 676.95 | 688.95 | 689.95 | 697.92 | 700.54 | 20.97 | 36.00 | W24X68 | 9 | 11.00 in |
| 23 | 1001+62.58 | 1.99 LT | 676.95 | 688.95 | 689.95 | 697.59 | 700.19 | 20.64 | 36.00 | W24X68 | 9 | 10.50 in |
| 24 | 1001+70.08 | 1.99 LT | 676.95 | 688.95 | 689.95 | 697.26 | 699.84 | 20.31 | 36.00 | W24X68 | 8 | 11.50 in |
| 25 | 1001+77.58 | 1.99 LT | 677.47 | 688.47 | 689.47 | 696.93 | 699.49 | 19.46 | 36.00 | W24X68 | 8 | 11.75 in |
| 26 | 1001+85.08 | 1.99 LT | 677.47 | 688.47 | 689.47 | 696.60 | 699.14 | 19.13 | 36.00 | W24X68 | 8 | 11.25 in |
| 27 | 1001+92.58 | 1.99 LT | 677.47 | 688.47 | 689.47 | 696.27 | 698.79 | 18.80 | 36.00 | W24X68 | 8 | 10.75 in |
| 28 | 1002+00.08 | 1.99 LT | 677.47 | 688.47 | 689.47 | 695.94 | 698.44 | 18.47 | 36.00 | W24X68 | 7 | 11.75 in |
| 29 | 1002+07.58 | 1.87 LT | 677.47 | 688.47 | 689.47 | 695.71 | 698.21 | 18.24 | 30.00 | W21X55 | 7 | 11.25 in |
| 30 | 1002+15.08 | 1.87 LT | 677.47 | 688.47 | 689.47 | 695.58 | 698.08 | 18.11 | 30.00 | W21X55 | 7 | 11.00 in |
| 31 | 1002+22.58 | 1.87 LT | 677.47 | 688.47 | 689.47 | 695.45 | 697.95 | 17.98 | 30.00 | W21X55 | 7 | 10.75 in |
| 32 | 1002+30.08 | 1.87 LT | 677.47 | 688.47 | 689.47 | 695.32 | 697.83 | 17.85 | 30.00 | W21X55 | 7 | 10.50 in |
| 33 | 1002+37.58 | 1.87 LT | 677.14 | 688.14 | 689.14 | 695.20 | 697.70 | 18.06 | 30.00 | W21X55 | 7 | 11.00 in |
| 34 | 1002+45.08 | 1.87 LT | 677.14 | 688.14 | 689.14 | 695.07 | 697.57 | 17.93 | 30.00 | W21X55 | 7 | 10.75 in |
| 35 | 1002+52.58 | 1.87 LT | 677.14 | 688.14 | 689.14 | 694.94 | 697.45 | 17.80 | 30.00 | W21X55 | 7 | 10.50 in |
| 36 | 1002+60.08 | 1.87 LT | 677.14 | 688.14 | 689.14 | 694.82 | 697.32 | 17.68 | 30.00 | W21X55 | 7 | 10.25 in |
| 37 | 1002+67.58 | 1.87 LT | 676.80 | 687.80 | 688.80 | 694.69 | 697.19 | 17.89 | 30.00 | W21X55 | 7 | 10.75 in |
| 38 | 1002+75.08 | 1.87 LT | 676.80 | 687.80 | 688.80 | 694.56 | 697.07 | 17.76 | 30.00 | W21X55 | 7 | 10.50 in |
| 39 | 1002+82.58 | 1.87 LT | 676.80 | 687.80 | 688.80 | 694.43 | 696.94 | 17.63 | 30.00 | W21X55 | 7 | 10.25 in |
| 40 | 1002+90.08 | 1.87 LT | 676.80 | 687.80 | 688.80 | 694.31 | 696.81 | 17.51 | 30.00 | W21X55 | 7 | 10.00 in |
| 41 | 1002+97.58 | 1.68 LT | 676.47 | 687.47 | 688.47 | 694.18 | 696.69 | 17.71 | 24.00 | W16X50 | 7 | 10.25 in |
| 42 | 1003+05.08 | 1.68 LT | 676.47 | 687.47 | 688.47 | 694.05 | 696.56 | 17.58 | 24.00 | W16X50 | 7 | 10.00 in |
| 43 | 1003+12.58 | 1.68 LT | 676.47 | 687.47 | 688.47 | 693.92 | 696.43 | 17.45 | 24.00 | W16X50 | 6 | 11.75 in |
| 44 | 1003+20.08 | 1.68 LT | 676.47 | 687.47 | 688.47 | 693.80 | 696.31 | 17.33 | 24.00 | W16X50 | 6 | 11.50 in |
| 45 | 1003+27.58 | 1.68 LT | 676.14 | 687.14 | 688.14 | 693.67 | 696.18 | 17.53 | 24.00 | W16X50 | 7 | 10.00 in |
| 46 | 1003+35.08 | 1.68 LT | 676.14 | 687.14 | 688.14 | 693.54 | 696.05 | 17.40 | 24.00 | W16X50 | 6 | 11.75 in |
| 47 | 1003+42.58 | 1.68 LT | 676.14 | 687.14 | 688.14 | 693.42 | 695.93 | 17.28 | 24.00 | W16X50 | 6 | 11.25 in |
| 48 | 1003+50.08 | 1.68 LT | 676.14 | 687.14 | 688.14 | 693.29 | 695.80 | 17.15 | 24.00 | W16X50 | 6 | 11.00 in |
| 49 | 1003+57.58 | 1.68 LT | 675.79 | 686.79 | 687.79 | 693.16 | 695.67 | 17.37 | 24.00 | W16X50 | 6 | 11.50 in |
| 50 | 1003+65.08 | 1.68 LT | 675.79 | 686.79 | 687.79 | 693.03 | 695.55 | 17.24 | 24.00 | W16X50 | 6 | 11.25 in |
| 51 | 1003+72.58 | 1.68 LT | 675.79 | 686.79 | 687.79 | 692.91 | 695.42 | 17.12 | 24.00 | W16X50 | 6 | 11.00 in |
| 52 | 1003+80.08 | 1.68 LT | 675.79 | 686.79 | 687.79 | 692.78 | 695.29 | 16.99 | 24.00 | W16X50 | 6 | 10.75 in |
| 53 | 1003+87.58 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.65 | 695.17 | 16.25 | 24.00 | W16X36 | 6 | 11.25 in |
| 54 | 1003+95.08 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.52 | 695.04 | 16.12 | 24.00 | W16X36 | 6 | 11.00 in |
| 55 | 1004+02.58 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.40 | 694.91 | 16.00 | 24.00 | W16X36 | 6 | 10.75 in |
| 56 | 1004+10.08 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.27 | 694.79 | 15.87 | 24.00 | W16X36 | 6 | 10.25 in |
| 57 | 1004+17.58 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.14 | 694.66 | 15.74 | 24.00 | W16X36 | 6 | 10.00 in |
| 58 | 1004+25.08 | 1.66 LT | 676.40 | 686.40 | 687.40 | 692.01 | 694.53 | 15.61 | 24.00 | W16X36 | 6 | 9.75 in |
| 59 | 1004+32.58 | 1.66 LT | 676.40 | 686.40 | 687.40 | 691.89 | 694.41 | 15.49 | 24.00 | W16X36 | 5 | 11.75 in |
| 60 | 1004+40.08 | 1.66 LT | 676.40 | 686.40 | 687.40 | 691.76 | 694.28 | 15.36 | 24.00 | W16X36 | 5 | 11.50 in |
| 61 | 1004+47.58 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.63 | 694.15 | 15.60 | 24.00 | W16X36 | 6 | 9.75 in |
| 62 | 1004+55.08 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.51 | 694.03 | 15.48 | 24.00 | W16X36 | 5 | 11.75 in |

## NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
2. FOR TYPICAL WALL SECTION, SEE SHEET 22/26.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

# PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE 1 OF 2
# RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 23 | TOTAL 26

SHEET P.845 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet -1 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:24 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01D\Sheets\105743_WALL01D_WT001.dgn

| DRILLED SHAFT NUMBER | WALL 1D STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 1004+62.58 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.38 | 693.90 | 15.35 | 24.00 | W16X36 | 5 | 11.50 in |
| 64 | 1004+70.08 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.25 | 693.77 | 15.22 | 24.00 | W16X36 | 5 | 11.00 in |
| 65 | 1004+77.58 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.12 | 693.65 | 15.09 | 24.00 | W16X36 | 5 | 10.75 in |
| 66 | 1004+85.08 | 1.66 LT | 676.03 | 686.03 | 687.03 | 691.00 | 693.52 | 14.97 | 24.00 | W16X36 | 5 | 10.25 in |
| 67 | 1004+92.58 | 1.66 LT | 676.03 | 686.03 | 687.03 | 690.87 | 693.39 | 14.84 | 24.00 | W16X36 | 5 | 10.00 in |
| 68 | 1005+00.08 | 1.66 LT | 676.03 | 686.03 | 687.03 | 690.74 | 693.27 | 14.71 | 24.00 | W16X36 | 5 | 9.50 in |
| 69 | 1005+07.58 | 1.66 LT | 675.63 | 685.63 | 686.63 | 690.61 | 693.14 | 14.98 | 24.00 | W16X36 | 5 | 10.25 in |
| 70 | 1005+15.08 | 1.66 LT | 675.63 | 685.63 | 686.63 | 690.49 | 693.01 | 14.86 | 24.00 | W16X36 | 5 | 10.00 in |
| 71 | 1005+22.58 | 1.66 LT | 675.63 | 685.63 | 686.63 | 690.36 | 692.89 | 14.73 | 24.00 | W16X36 | 5 | 9.50 in |
| 72 | 1005+30.08 | 1.66 LT | 675.63 | 685.63 | 686.63 | 690.23 | 692.76 | 14.60 | 24.00 | W16X36 | 5 | 9.25 in |
| 73 | 1005+37.58 | 1.66 LT | 675.63 | 685.63 | 686.63 | 690.11 | 692.63 | 14.48 | 24.00 | W16X36 | 4 | 11.75 in |
| 74 | 1005+45.08 | 1.66 LT | 675.63 | 685.63 | 686.63 | 689.98 | 692.51 | 14.35 | 24.00 | W16X36 | 4 | 11.25 in |
| 75 | 1005+52.58 | 1.66 LT | 675.63 | 685.63 | 686.63 | 689.85 | 692.38 | 14.22 | 24.00 | W16X36 | 4 | 10.75 in |
| 76 | 1005+60.08 | 1.66 LT | 675.63 | 685.63 | 686.63 | 689.72 | 692.25 | 14.09 | 24.00 | W16X36 | 4 | 10.25 in |
| 77 | 1005+67.58 | 1.66 LT | 675.16 | 685.16 | 686.16 | 689.60 | 692.16 | 14.44 | 24.00 | W16X36 | 4 | 11.50 in |
| 78 | 1005+75.08 | 1.66 LT | 675.16 | 685.16 | 686.16 | 689.47 | 692.10 | 14.31 | 24.00 | W16X36 | 4 | 11.00 in |
| 79 | 1005+82.58 | 1.66 LT | 675.16 | 685.16 | 686.16 | 689.34 | 692.04 | 14.18 | 24.00 | W16X36 | 4 | 10.50 in |
| 80 | 1005+90.08 | 1.66 LT | 675.16 | 685.16 | 686.16 | 689.21 | 691.98 | 14.05 | 24.00 | W16X36 | 4 | 10.00 in |
| 81 | 1005+97.58 | 1.66 LT | 675.16 | 685.16 | 686.16 | 689.09 | 691.92 | 13.93 | 24.00 | W16X36 | 4 | 9.50 in |
| 82 | 1006+05.08 | 1.66 LT | 675.16 | 685.16 | 686.16 | 688.96 | 691.86 | 13.80 | 24.00 | W16X36 | 4 | 9.00 in |
| 83 | 1006+12.58 | 1.66 LT | 675.16 | 685.16 | 686.16 | 688.83 | 691.81 | 13.67 | 24.00 | W16X36 | 4 | 8.50 in |
| 84 | 1006+20.08 | 1.66 LT | 675.16 | 685.16 | 686.16 | 688.71 | 691.75 | 13.55 | 24.00 | W16X36 | 4 | 8.00 in |
| 85 | 1006+27.58 | 1.66 LT | 674.69 | 684.69 | 685.69 | 688.58 | 691.69 | 13.89 | 24.00 | W16X36 | 4 | 9.50 in |
| 86 | 1006+35.08 | 1.66 LT | 674.69 | 684.69 | 685.69 | 688.45 | 691.63 | 13.76 | 24.00 | W16X36 | 4 | 9.00 in |
| 87 | 1006+42.58 | 1.66 LT | 674.69 | 684.69 | 685.69 | 688.32 | 691.57 | 13.63 | 24.00 | W16X36 | 4 | 8.50 in |
| 88 | 1006+50.08 | 1.66 LT | 674.69 | 684.69 | 685.69 | 688.20 | 691.51 | 13.51 | 24.00 | W16X36 | 4 | 8.00 in |
| 89 | 1006+57.58 | 1.66 LT | 674.69 | 684.69 | 685.69 | 688.07 | 691.45 | 13.38 | 24.00 | W16X36 | 3 | 11.25 in |
| 90 | 1006+65.08 | 1.66 LT | 674.69 | 684.69 | 685.69 | 687.94 | 691.40 | 13.25 | 24.00 | W16X36 | 3 | 10.50 in |
| 91 | 1006+72.58 | 1.66 LT | 674.69 | 684.69 | 685.69 | 687.81 | 691.34 | 13.12 | 24.00 | W16X36 | 3 | 9.50 in |
| 92 | 1006+80.08 | 1.66 LT | 674.69 | 684.69 | 685.69 | 687.69 | 691.29 | 13.00 | 24.00 | W16X36 | 3 | 8.75 in |
| 93 | 1006+87.58 | 1.66 LT | 674.25 | 684.25 | 685.25 | 687.56 | 691.24 | 13.31 | 24.00 | W16X36 | 3 | 10.75 in |
| 94 | 1006+95.08 | 1.66 LT | 674.25 | 684.25 | 685.25 | 687.43 | 691.18 | 13.18 | 24.00 | W16X36 | 3 | 10.00 in |
| 95 | 1007+02.58 | 1.66 LT | 674.25 | 684.25 | 685.25 | 687.31 | 691.13 | 13.06 | 24.00 | W16X36 | 3 | 9.25 in |
| 96 | 1007+10.08 | 1.66 LT | 674.25 | 684.25 | 685.25 | 687.18 | 691.07 | 12.93 | 24.00 | W16X36 | 3 | 8.50 in |
| 97 | 1007+17.58 | 1.66 LT | 674.25 | 684.25 | 685.25 | 687.05 | 691.02 | 12.80 | 24.00 | W16X36 | 3 | 7.75 in |
| 98 | 1007+25.08 | 1.66 LT | 674.25 | 684.25 | 685.25 | 686.92 | 690.97 | 12.67 | 24.00 | W16X36 | 3 | 7.00 in |
| 99 | 1007+32.58 | 1.66 LT | 674.25 | 684.25 | 685.25 | 686.80 | 690.91 | 12.55 | 24.00 | W16X36 | 3 | 6.25 in |
| 100 | 1007+40.08 | 1.66 LT | 674.25 | 684.25 | 685.25 | 686.67 | 690.86 | 12.42 | 24.00 | W16X36 | 2 | 11.00 in |
| 101 | 1007+47.58 | 1.66 LT | 673.88 | 683.88 | 684.88 | 686.54 | 690.78 | 12.66 | 24.00 | W16X36 | 3 | 6.75 in |
| 102 | 1007+55.08 | 1.66 LT | 673.88 | 683.88 | 684.88 | 686.41 | 690.69 | 12.53 | 24.00 | W16X36 | 3 | 6.00 in |
| 103 | 1007+62.58 | 1.66 LT | 673.88 | 683.88 | 684.88 | 686.29 | 690.59 | 12.41 | 24.00 | W16X36 | 2 | 10.75 in |
| 104 | 1007+70.08 | 1.66 LT | 673.88 | 683.88 | 684.88 | 686.16 | 690.50 | 12.28 | 24.00 | W16X36 | 2 | 9.25 in |
| 105 | 1007+77.58 | 1.66 LT | 673.46 | 683.46 | 684.46 | 686.03 | 690.41 | 12.57 | 24.00 | W16X36 | 3 | 6.25 in |
| 106 | 1007+85.08 | 1.66 LT | 673.46 | 683.46 | 684.46 | 685.90 | 690.31 | 12.44 | 24.00 | W16X36 | 2 | 11.25 in |
| 107 | 1007+92.58 | 1.66 LT | 673.46 | 683.46 | 684.46 | 685.78 | 690.22 | 12.32 | 24.00 | W16X36 | 2 | 9.75 in |
| 108 | 1008+00.08 | 1.66 LT | 673.46 | 683.46 | 684.46 | 685.65 | 690.12 | 12.19 | 24.00 | W16X36 | 2 | 8.25 in |
| 109 | 1008+07.58 | 1.66 LT | 673.05 | 683.05 | 684.05 | 685.52 | 690.03 | 12.47 | 24.00 | W16X36 | 2 | 11.50 in |
| 110 | 1008+15.08 | 1.66 LT | 673.05 | 683.05 | 684.05 | 685.40 | 689.94 | 12.35 | 24.00 | W16X36 | 2 | 10.00 in |
| 111 | 1008+22.58 | 1.66 LT | 673.05 | 683.05 | 684.05 | 685.27 | 689.84 | 12.22 | 24.00 | W16X36 | 2 | 8.50 in |
| 112 | 1008+30.08 | 1.66 LT | 673.05 | 683.05 | 684.05 | 685.14 | 689.75 | 12.09 | 24.00 | W16X36 | 2 | 7.00 in |
| 113 | 1008+37.58 | 1.66 LT | 672.64 | 682.64 | 683.64 | 685.01 | 689.64 | 12.37 | 24.00 | W16X36 | 2 | 10.25 in |
| 114 | 1008+45.08 | 1.66 LT | 672.64 | 682.64 | 683.64 | 684.89 | 689.52 | 12.25 | 24.00 | W16X36 | 2 | 8.75 in |
| 115 | 1008+52.58 | 1.66 LT | 672.64 | 682.64 | 683.64 | 684.76 | 689.40 | 12.12 | 24.00 | W16X36 | 2 | 7.25 in |
| 116 | 1008+60.08 | 1.66 LT | 672.64 | 682.64 | 683.64 | 684.63 | 689.28 | 11.99 | 24.00 | W16X36 | 2 | 5.75 in |
| 117 | 1008+67.58 | 1.66 LT | 672.16 | 682.16 | 683.16 | 684.50 | 689.16 | 12.34 | 24.00 | W16X36 | 2 | 10.00 in |
| 118 | 1008+75.08 | 1.66 LT | 672.16 | 682.16 | 683.16 | 684.38 | 689.04 | 12.22 | 24.00 | W16X36 | 2 | 8.50 in |
| 119 | 1008+82.58 | 1.66 LT | 672.16 | 682.16 | 683.16 | 684.25 | 688.93 | 12.09 | 24.00 | W16X36 | 2 | 7.00 in |
| 120 | 1008+90.08 | 1.66 LT | 672.16 | 682.16 | 683.16 | 684.12 | 688.81 | 11.96 | 24.00 | W16X36 | 2 | 5.50 in |
| 121 | 1008+97.58 | 1.66 LT | 671.62 | 681.62 | 682.62 | 684.00 | 688.69 | 12.38 | 24.00 | W16X36 | 2 | 10.50 in |
| 122 | 1009+05.08 | 1.66 LT | 671.62 | 681.62 | 682.62 | 683.87 | 688.57 | 12.25 | 24.00 | W16X36 | 2 | 8.75 in |
| 123 | 1009+12.58 | 1.66 LT | 671.62 | 681.62 | 682.62 | 683.74 | 688.45 | 12.12 | 24.00 | W16X36 | 2 | 7.25 in |
| 124 | 1009+20.08 | 1.66 LT | 671.62 | 681.62 | 682.62 | 683.61 | 688.33 | 11.99 | 24.00 | W16X36 | 2 | 5.75 in |

## NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
2. FOR TYPICAL WALL SECTION, SEE SHEET 22/26.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

# PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE 2 OF 2
## RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 24 | TOTAL 26
SHEET P.846 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet - 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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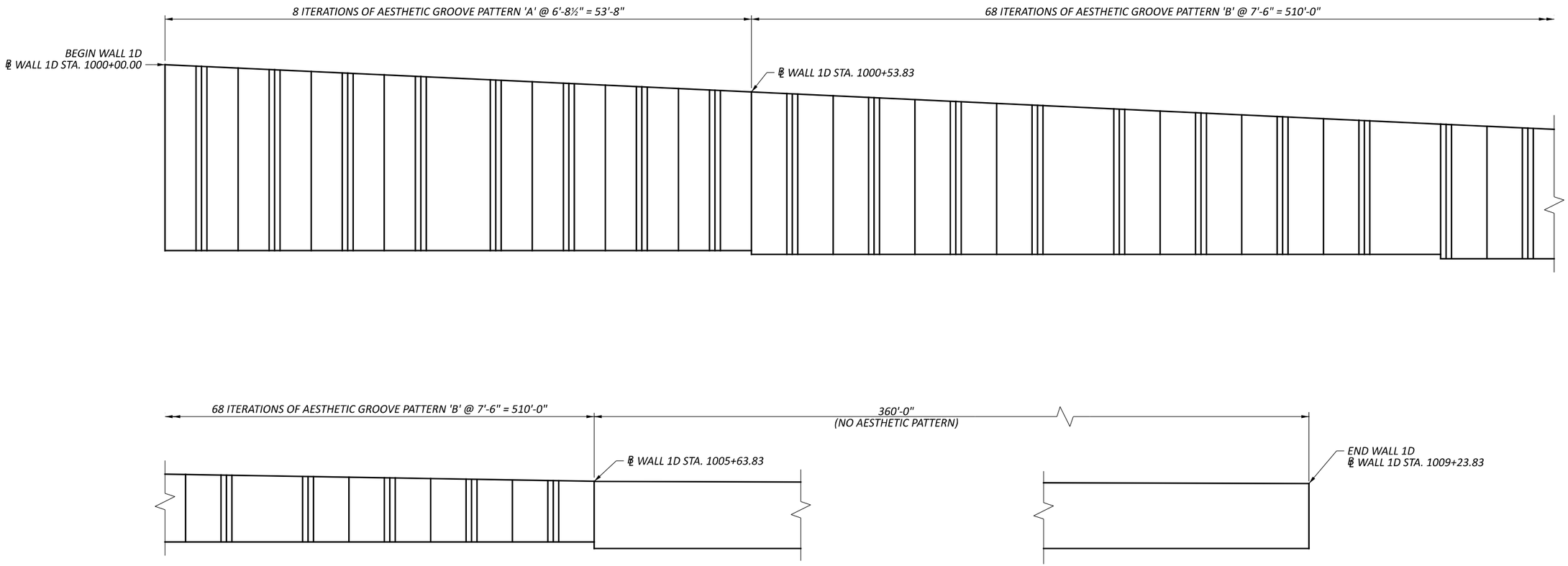
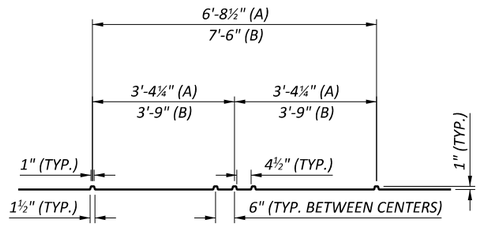



## AESTHETIC WALL FACING ELEVATION




## AESTHETIC GROOVE DETAIL

### LEGEND:

(A) - AESTHETIC GROOVE PATTERN 'A'

(B) - AESTHETIC GROOVE PATTERN 'B'

### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. THE AESTHETIC VERTICAL GROOVE PATTERN MAY TERMINATE WITHIN THE FACING HEIGHT BUT AT MINIMUM MUST EXTEND FROM THE TOP TO 4'-0" FROM THE BOTTOM OF THE WALL.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
4. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

# AESTHETIC DETAILS
# RETAINING WALL 1D

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 25 / 26 |
| SHEET / TOTAL | P.847 / P.1135 |

CUY-77-11.41 - PART 1

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| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| W401 | 52 | 15'-6" | 538 | STR | | | | | | | |
| W402 | 52 | 14'-3" | 495 | STR | | | | | | | |
| W403 | 58 | 13'-2" | 510 | STR | | | | | | | |
| W404 | 58 | 11'-9" | 455 | STR | | | | | | | |
| W405 | 58 | 10'-9" | 416 | STR | | | | | | | |
| W406 | 58 | 9'-5" | 365 | STR | | | | | | | |
| W407 | 58 | 8'-6" | 329 | STR | | | | | | | |
| W408 | 58 | 7'-11" | 307 | STR | | | | | | | |
| W409 | 116 | 7'-9" | 601 | STR | | | | | | | |
| W410 | 116 | 7'-4" | 568 | STR | | | | | | | |
| W411 | 116 | 7'-1" | 549 | STR | | | | | | | |
| W412 | 116 | 6'-4" | 491 | STR | | | | | | | |
| W413 | 116 | 5'-9" | 446 | STR | | | | | | | |
| W414 | 580 | 5'-3" | 2034 | STR | | | | | | | |
| W415 | 174 | 5'-5" | 630 | STR | | | | | | | |
| W416 | 52 | 7'-4" | 252 | 2 | 2'-7" | 1'-2" | 3'-9" | | | | |
| W417 | 58 | 7'-3" | 281 | 2 | 2'-6" | 1'-2" | 3'-10" | | | | |
| W418 | 87 | 7'-0" | 407 | 2 | 2'-3" | 1'-2" | 3'-10" | | | | |
| W419 | 348 | 6'-1" | 1414 | 2 | 2'-2" | 1'-2" | 3'-0" | | | | |
| W420 | 29 | 5'-11" | 115 | 2 | 2'-4" | 1'-2" | 2'-8" | | | | |
| W421 | 29 | 6'-2" | 119 | 2 | 2'-7" | 1'-2" | 2'-8" | | | | |
| W422 | 29 | 6'-5" | 124 | 2 | 2'-10" | 1'-2" | 2'-8" | | | | |
| W423 | 29 | 6'-8" | 129 | 2 | 3'-1" | 1'-2" | 2'-8" | | | | |
| W424 | 29 | 7'-0" | 136 | 2 | 3'-5" | 1'-2" | 2'-8" | | | | |
| W425 | 29 | 7'-4" | 142 | 2 | 3'-9" | 1'-2" | 2'-8" | | | | |
| W426 | 58 | 7'-9" | 300 | 2 | 4'-0" | 1'-2" | 2'-10" | | | | |
| W427 | 116 | 8'-1" | 626 | 2 | 4'-3" | 1'-2" | 2'-11" | | | | |
| | | | | | | | | | | | |
| W601 | 76 | 26'-6" | 3025 | STR | | | | | | | |
| W602 | 484 | 29'-8" | 21567 | STR | | | | | | | |
| | | | | | | | | | | | |
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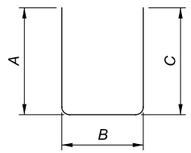
| | | | | | | | | | | | |
| | | TOTAL | 37,371 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 1D

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 26 | TOTAL 26

SHEET P.848 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet View PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPykes@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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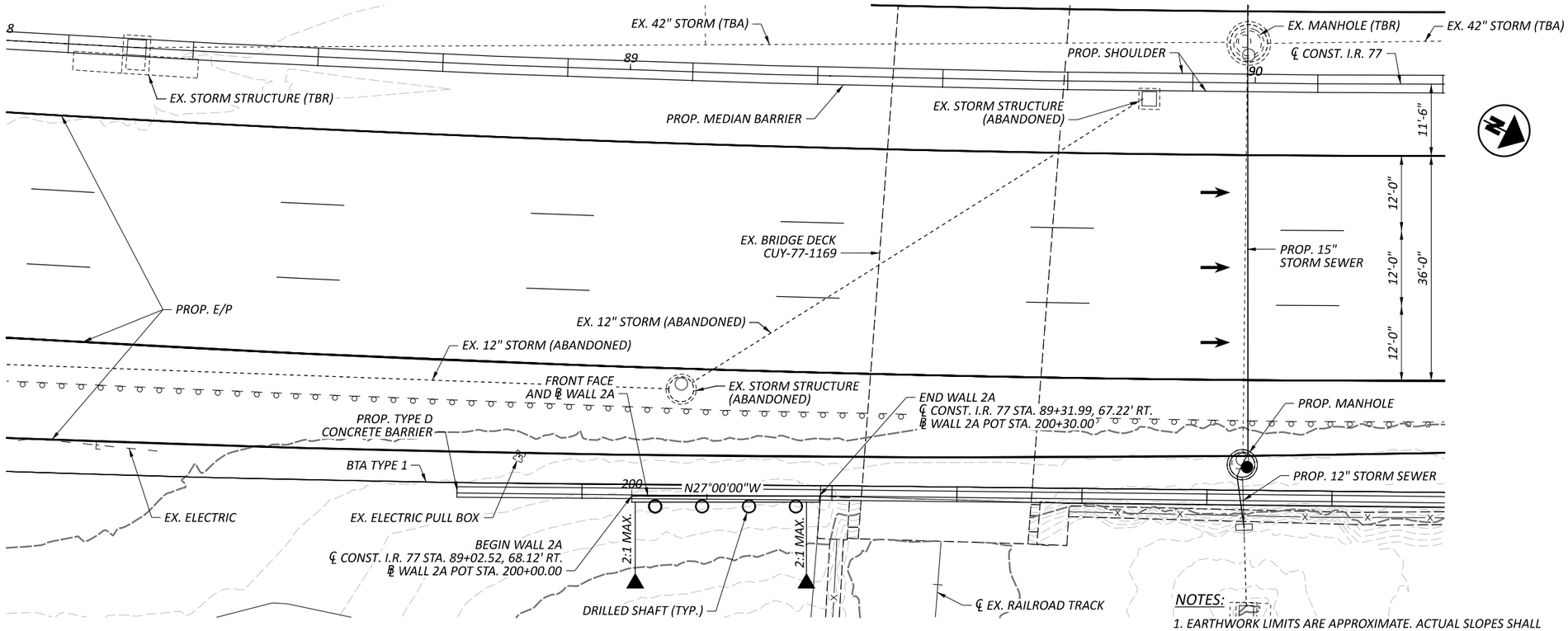
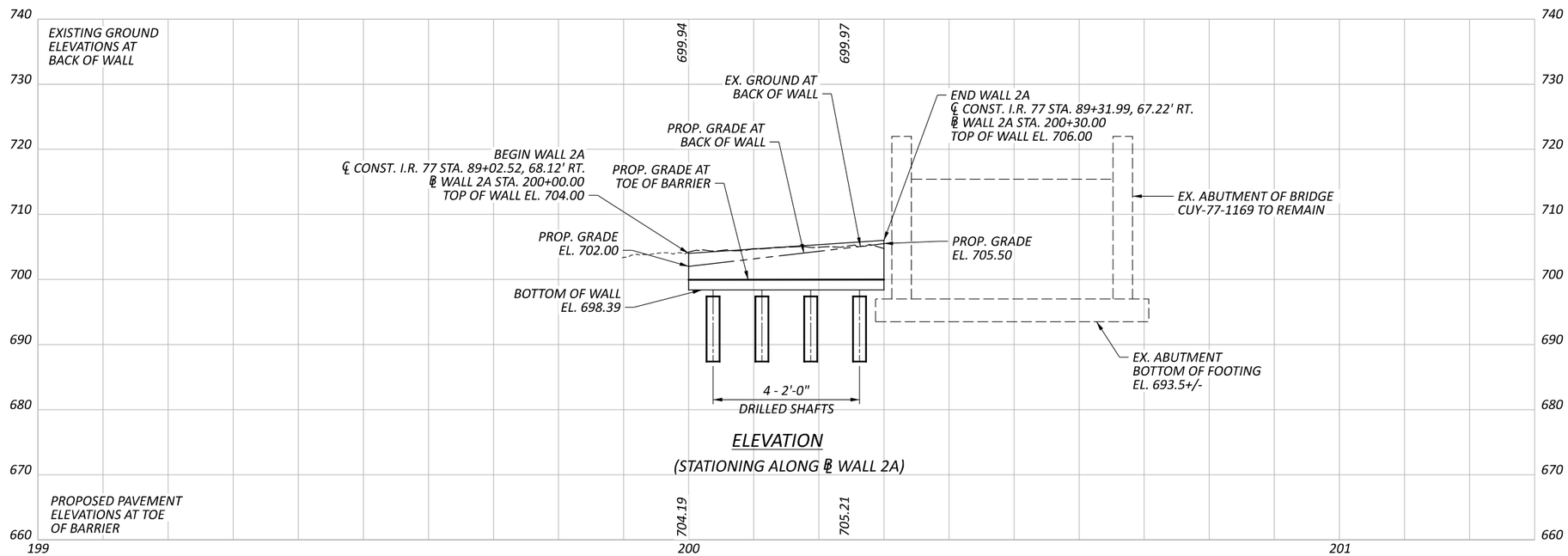



PLAN

NOTES:

1. EARTHWORK LIMITS ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B AND 3C.




ELEVATION

(STATIONING ALONG ℄ WALL 2A)

SITE PLAN
RETAINING WALL 2A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 1 | TOTAL 6

SHEET P.849 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_1 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:01:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x36

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 24" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 2A

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 6
SHEET P.850 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (WALL 2A)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 503 | 21101 | | CY | UNCLASSIFIED EXCAVATION, AS PER PLAN | 5 |
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W16X36 | 2 |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46012 | | CY | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| | | | | | |
| 512 | 10001 | | SY | SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION) | 2 |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| | | | | | |
| 513 | 20001 | | EACH | WELDED STUD SHEAR CONNECTORS, AS PER PLAN | 2 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13800 | | SF | 1-1/2" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| | | | | | |
| 524 | 94503 | | FT | DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN | 2 |
| | | | | | |
| SPECIAL | 53051020 | | SF | RETAINING WALL, TIMBER LAGGING | 2 |
| | | | | | |



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ESTIMATED QUANTITIES
RETAINING WALL 2A

DESIGN AGENCY
TRC

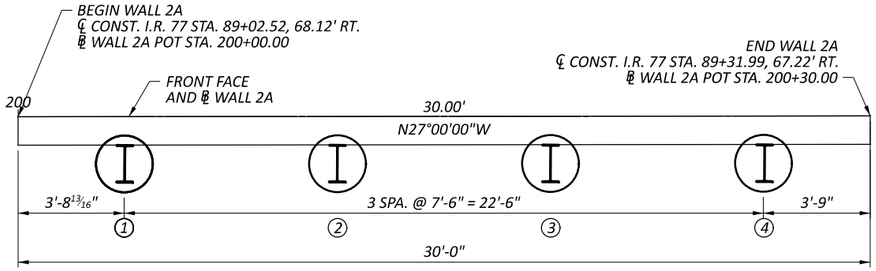
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

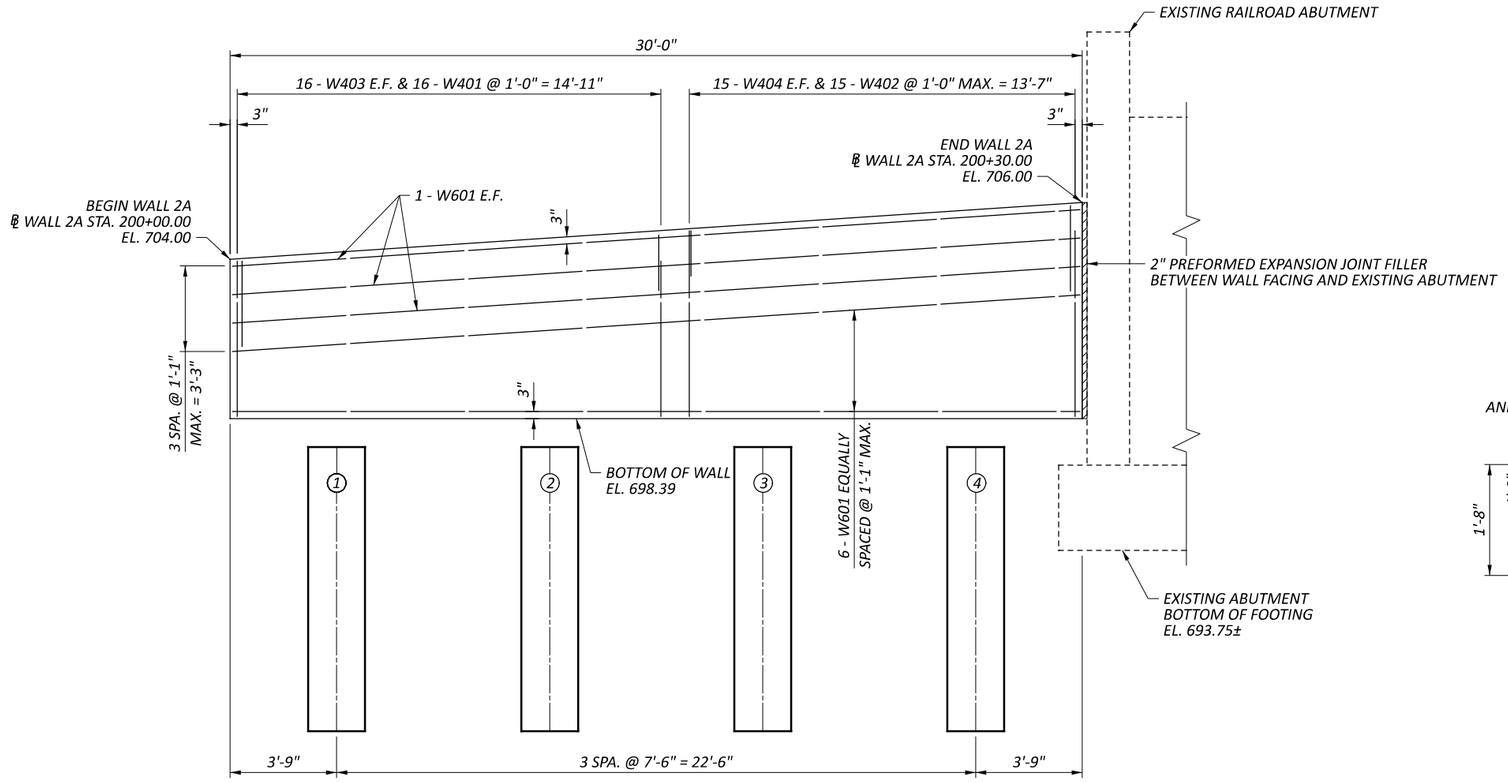
SUBSET 3 | TOTAL 6

SHEET P.851 | TOTAL P.1135




GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)

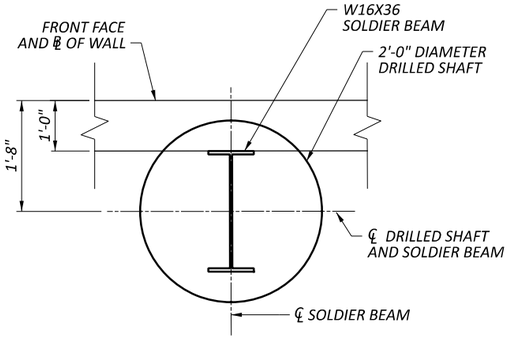



LEGEND:

- Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER

ELEVATION

(LOOKING AT BACK FACE OF WALL)




DRILLED SHAFT LOCATION DETAIL

NOTE:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 5/6.

PILE LAYOUT AND WALL ELEVATION
RETAINING WALL 2A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 4 TOTAL: 6
SHEET: P.852 TOTAL: P.1135

CUY-77-11.41 - PART 1

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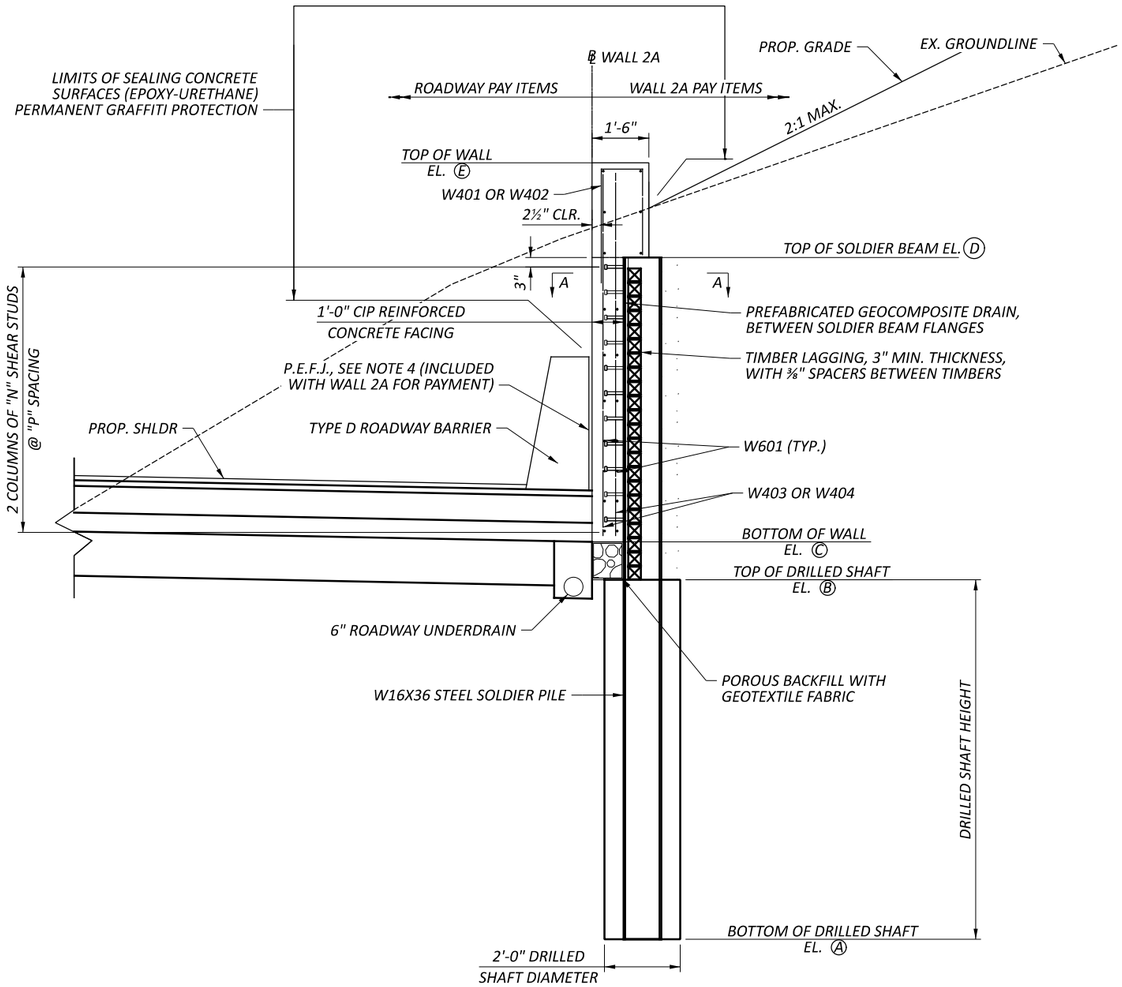
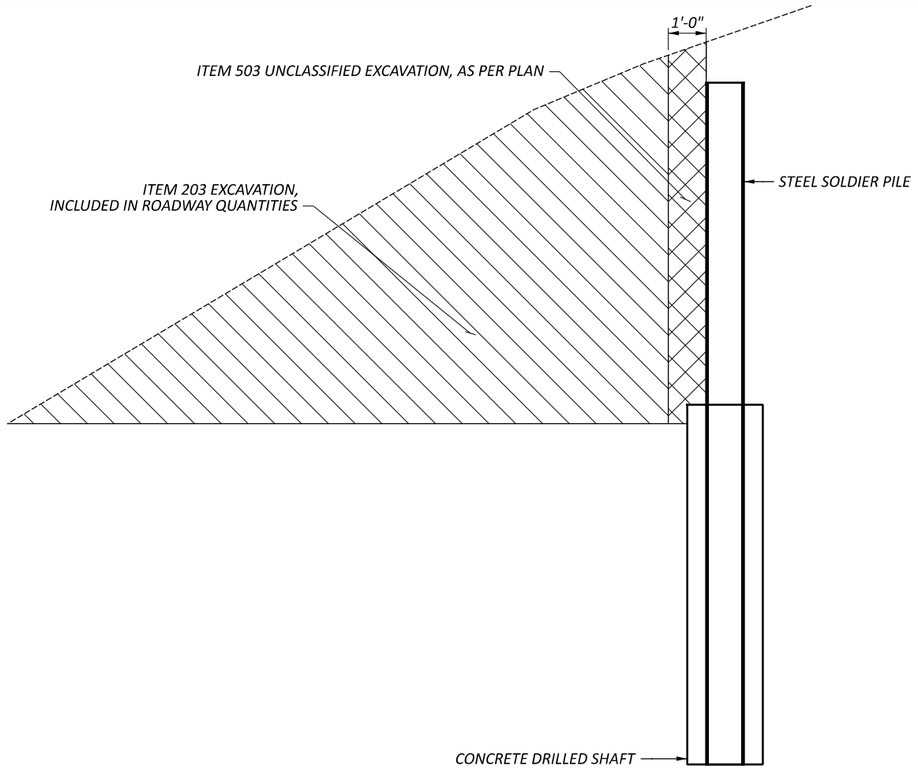
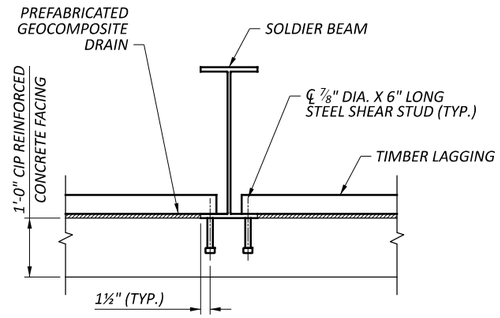



## WALL 2A TYPICAL SECTION




## EXCAVATION SCHEMATIC




## SECTION A-A

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. THICKNESS OF PREFORMED EXPANSION JOINT FILLER VARIES FROM 1" TO 1½". THE REQUIRED AREA OF JOINT FILLER IS ASSUMED TO BE EQUALLY SHARED BY EACH MATERIAL THICKNESS FOR COST ESTIMATE.
5. FOR DRILLED SHAFT LAYOUT PLAN AND WALL ELEVATION, SEE SHEET 4/6.

**PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE**

| DRILLED SHAFT NUMBER | WALL 2A STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 200+03.75 | 1.66 RT | 686.39 | 697.39 | 698.39 | 701.44 | 704.25 | 15.05 | 24.00 | W16X36 | 4 | 10.00 in |
| 2 | 200+11.25 | 1.66 RT | 686.39 | 697.39 | 698.39 | 702.31 | 704.75 | 15.92 | 24.00 | W16X36 | 5 | 10.00 in |
| 3 | 200+18.75 | 1.66 RT | 686.39 | 697.39 | 698.39 | 703.18 | 705.24 | 16.79 | 24.00 | W16X36 | 6 | 10.25 in |
| 4 | 200+26.25 | 1.66 RT | 686.39 | 697.39 | 698.39 | 704.05 | 705.74 | 17.66 | 24.00 | W16X36 | 7 | 10.25 in |

# TYPICAL SECTION AND SOLDIER PILE DIMENSION TABLE
# RETAINING WALL 2A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 5 | TOTAL 6

SHEET P.853 | TOTAL P.1135

CUY-77-11.41 - PART 1

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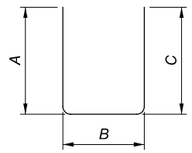
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W401 | 16 | 5'-11½" | 64 | 2 | 3'-0" | 1'-1 ½" | 2'-0" | | | | |
| W402 | 15 | 5'-2½" | 52 | 2 | 3'-0" | 1'-1 ½" | 1'-3" | | | | |
| W403 | 32 | 5'-3" | 112 | STR | | | | | | | |
| W404 | 30 | 6'-4" | 127 | STR | | | | | | | |
| W601 | 18 | 29'-8" | 802 | STR | | | | | | | |
| TOTAL | | | 1,157 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

# REINFORCING STEEL LIST
# RETAINING WALL 2A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 6 | TOTAL 6

SHEET P.854 | TOTAL P.1135

CUY-77-11.41 - PART 1

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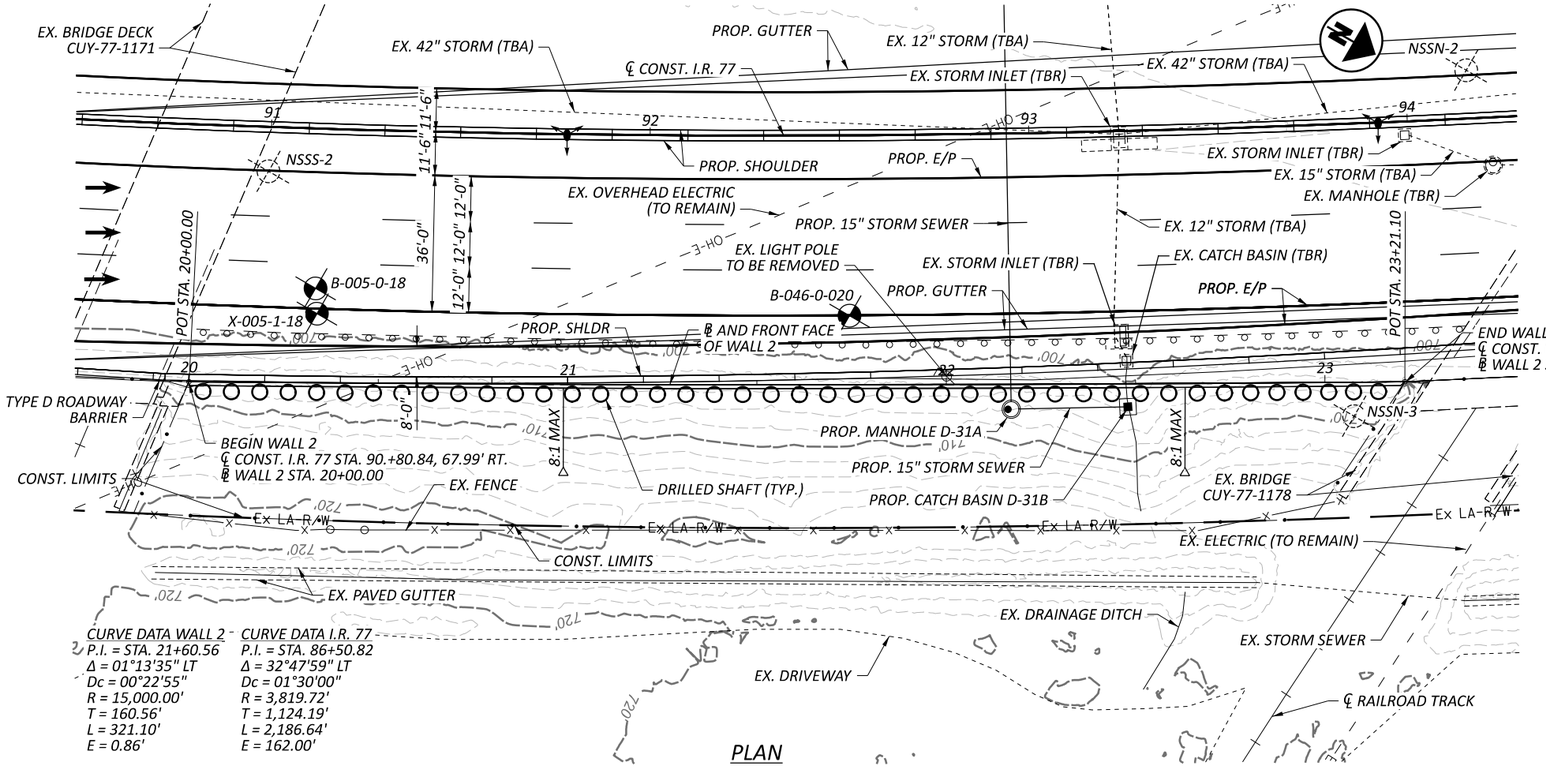



PLAN

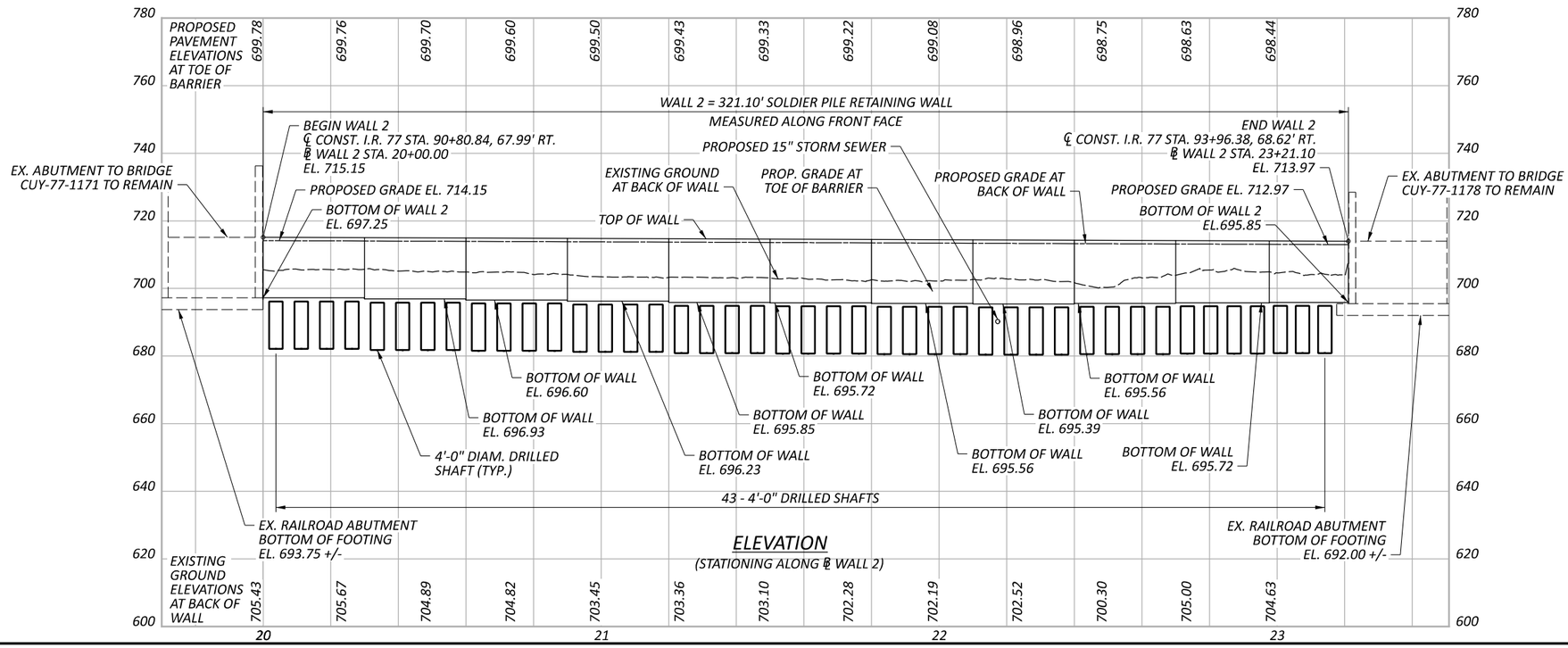
| CURVE DATA WALL 2 | CURVE DATA I.R. 77 |
|---|---|
| P.I. = STA. 21+60.56 | P.I. = STA. 86+50.82 |
| Δ = 01°13'35" LT | Δ = 32°47'59" LT |
| Dc = 00°22'55" | Dc = 01°30'00" |
| R = 15,000.00' | R = 3,819.72' |
| T = 160.56' | T = 1,124.19' |
| L = 321.10' | L = 2,186.64' |
| E = 0.86' | E = 162.00' |

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B AND 3C.




ELEVATION

(STATIONING ALONG ℄ WALL 2)

# SITE PLAN
# RETAINING WALL 2

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 1 / 14 |
| SHEET / TOTAL | P.855 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: WALL 2 PLAN [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:03:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YILED STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36x160
## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36X194

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 12/14. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ITEM SPECIAL - RETAINING WALL, MISC.: TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 14

SHEET P.856 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (WALL 2)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 503 | 21101 | | CY | UNCLASSIFIED EXCAVATION, AS PER PLAN | 11 |
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W36X160 | 2 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W36X194 | 2 |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING | 13 |
| | | | | | |
| 512 | 10001 | | SY | SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION) | 2 |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33001 | | SY | TYPE 2 WATERPROOFING, AS PER PLAN | 2 |
| | | | | | |
| 513 | 20001 | | EACH | WELDED STUD SHEAR CONNECTORS, AS PER PLAN | 2 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |
| | | | | | |
| 524 | 94903 | | FT | DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN | 2 |
| | | | | | |
| SPECIAL | 53051020 | | SF | RETAINING WALL, TIMBER LAGGING | 2 |
| | | | | | |

ESTIMATED QUANTITIES
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 14

SHEET P.857 | TOTAL P.1135

CUY-77-11.41 - PART 1

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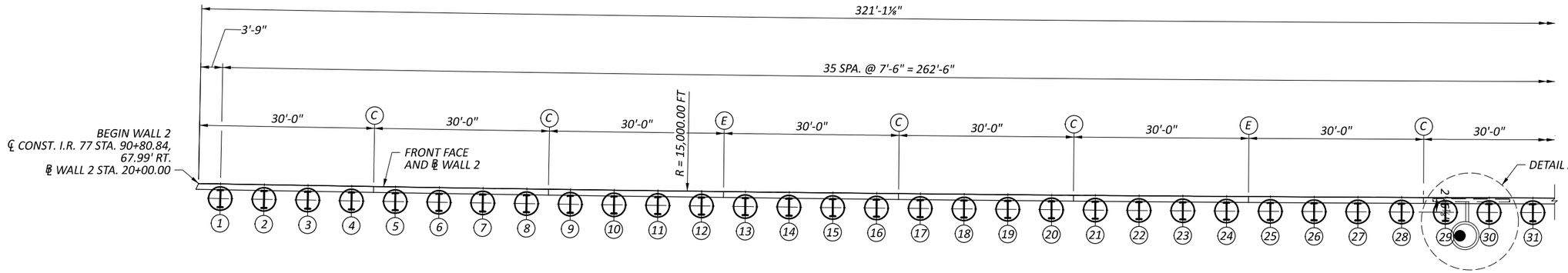
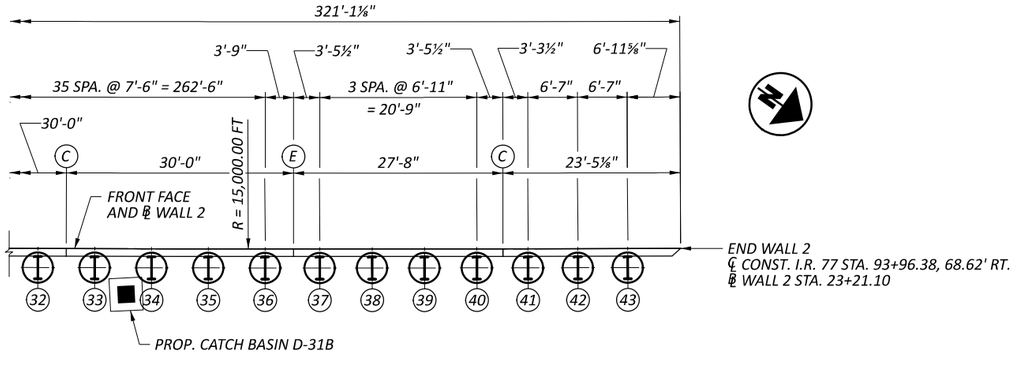
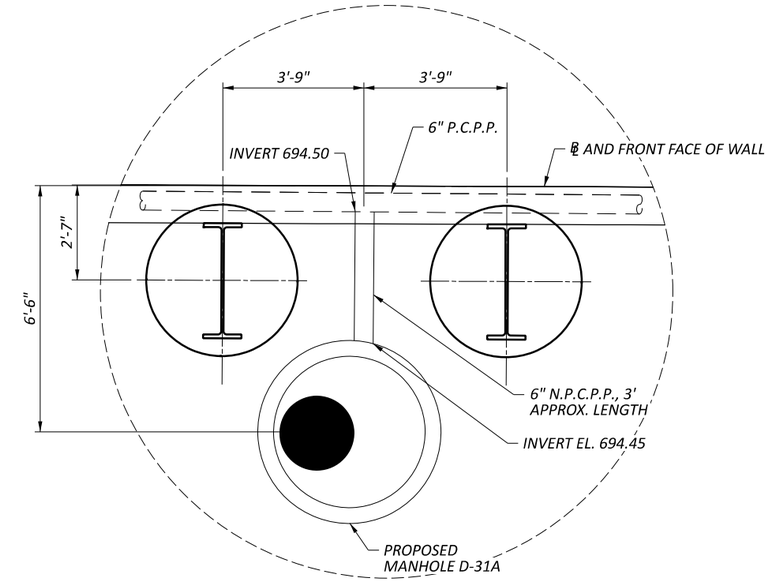


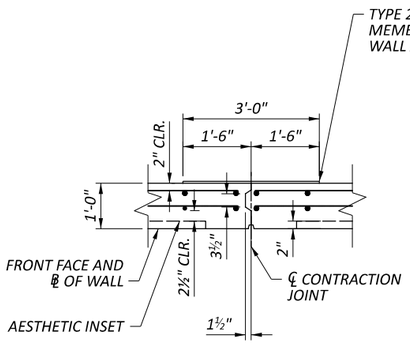




## GENERAL PLAN

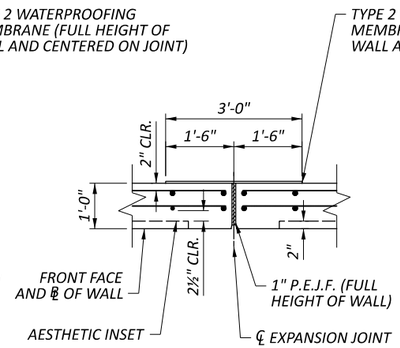
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



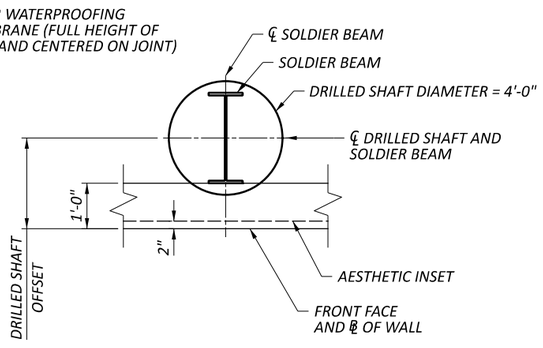

## DETAIL A




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL

### LEGEND:

- ① - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

### NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/14 THRU 10/14.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 12/14.
3. FOR AESTHETIC DETAILS, SEE SHEET 13/14.

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 2

DESIGN AGENCY TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 4 TOTAL 14
SHEET P.858 TOTAL P.1135

CUY-77-11.41 - PART 1

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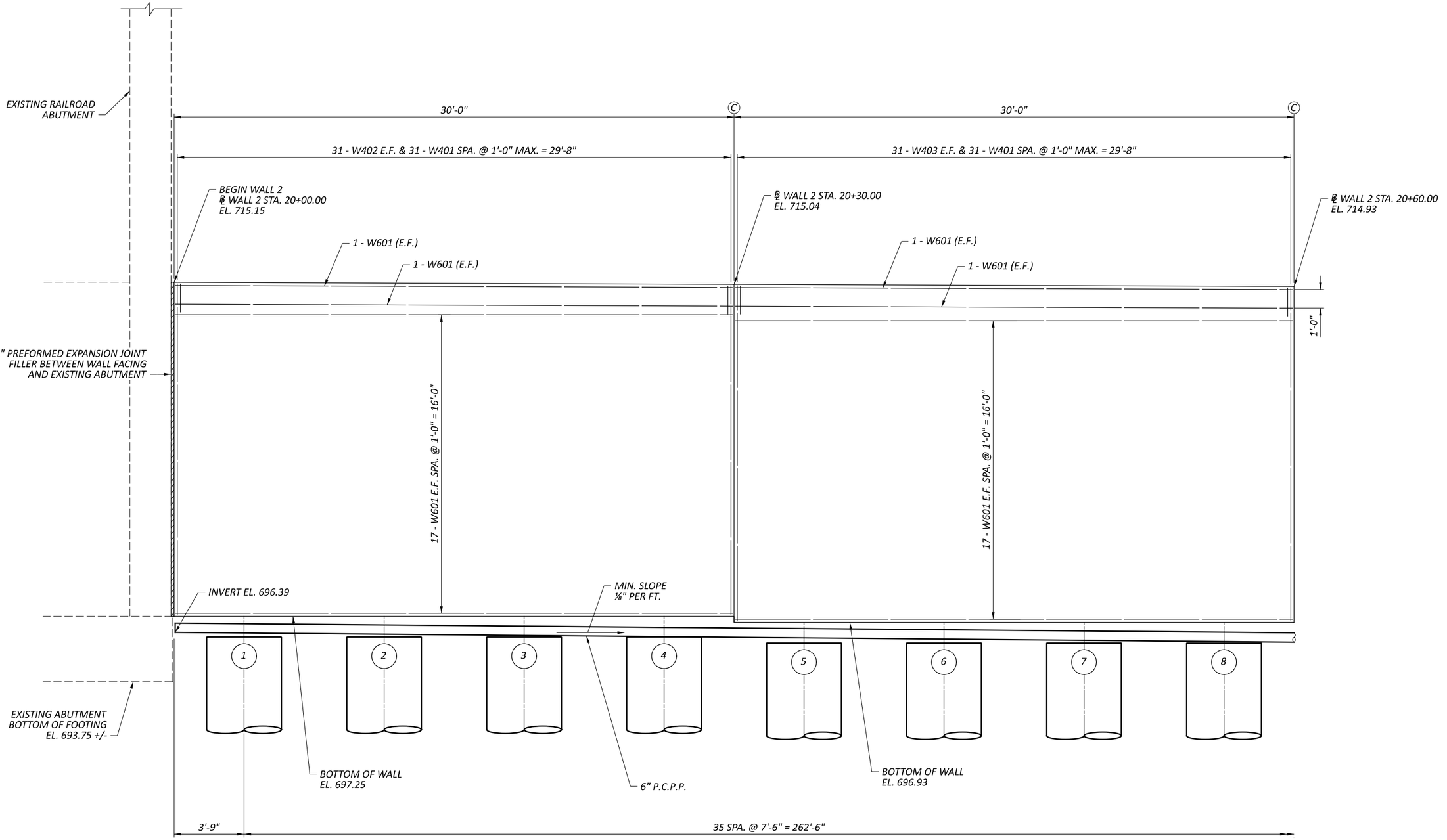



## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

### LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

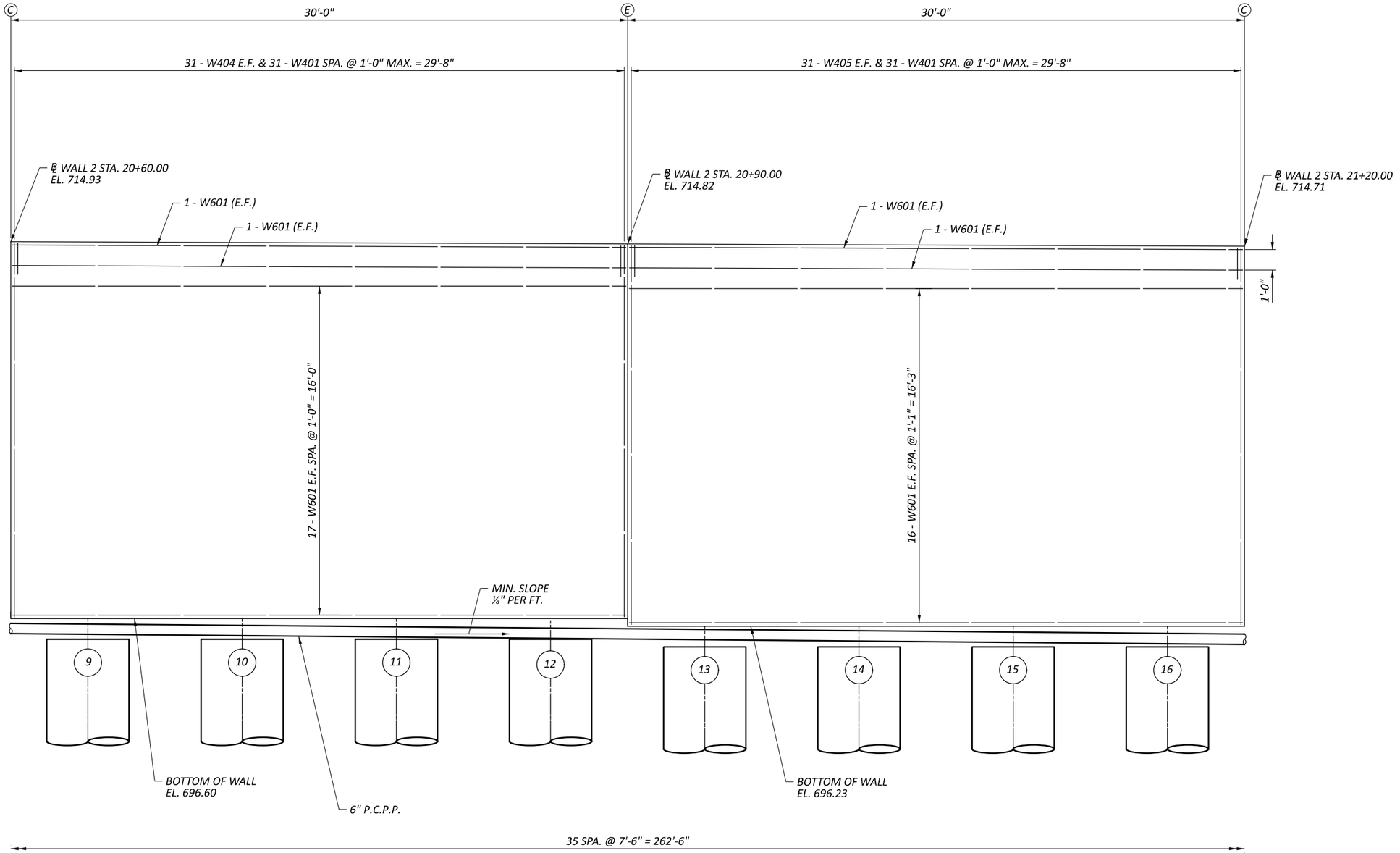
### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 5 / 14 |
| SHEET / TOTAL | P.859 / P.1135 |




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 14 |
| SHEET / TOTAL | P.860 / P.1135 |

CUY-77-11.41 - PART 1

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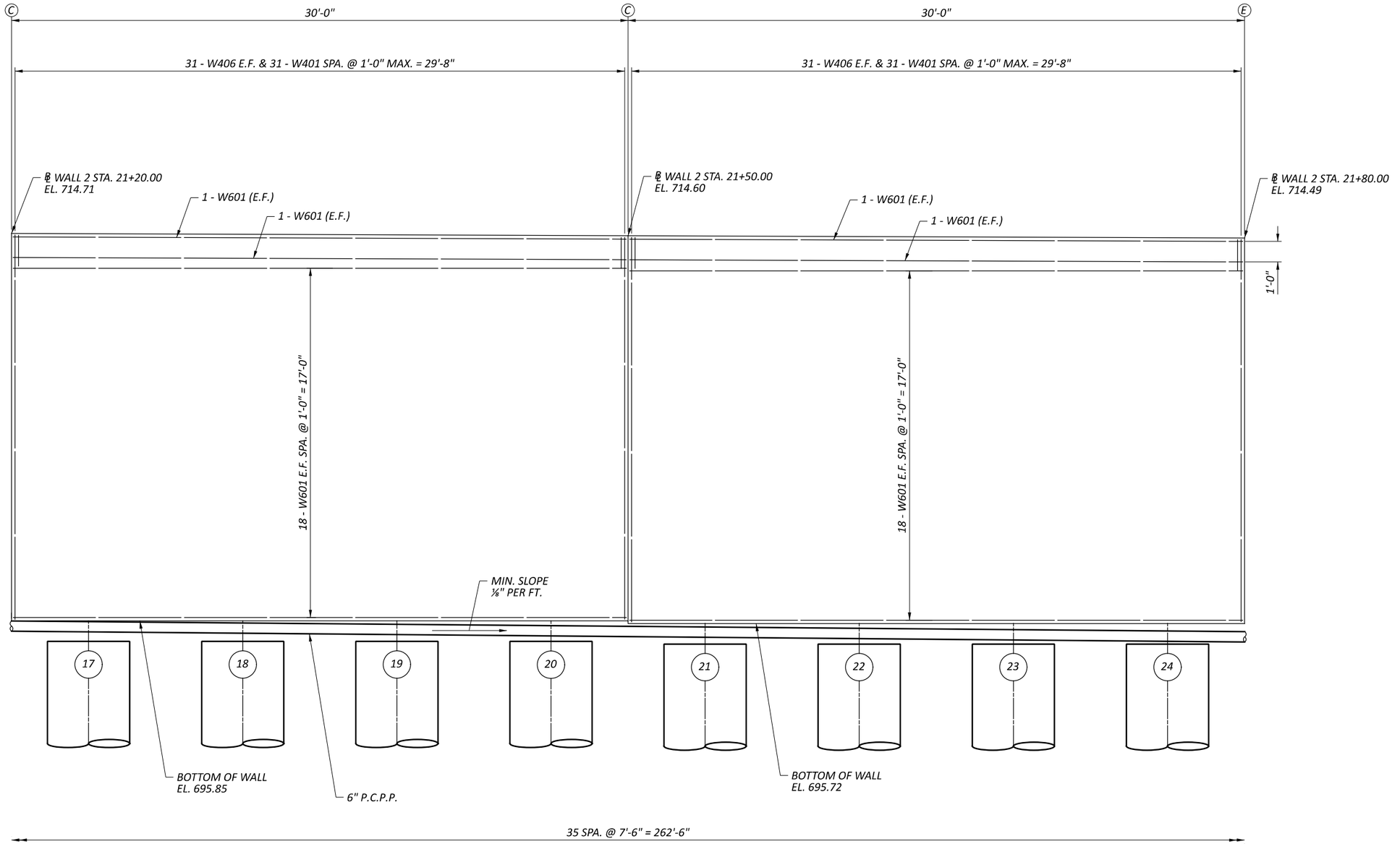


## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

CUY-77-11.41 - PART 1

MODEL: panel5 5-6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:04:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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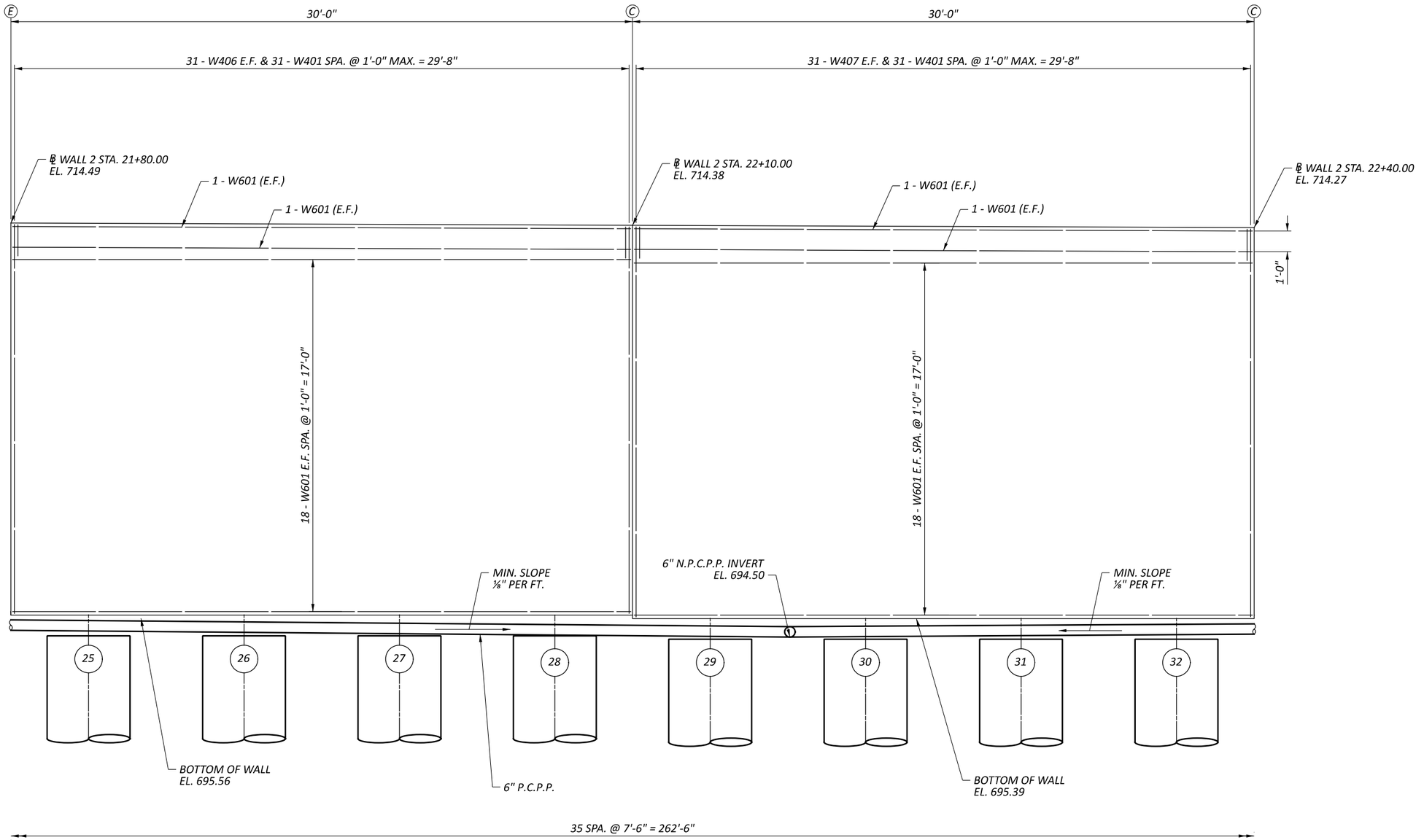
DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 | TOTAL 14
SHEET P.861 | TOTAL P.1135




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

CUY-77-11.41 - PART 1

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DESIGN AGENCY
TRC

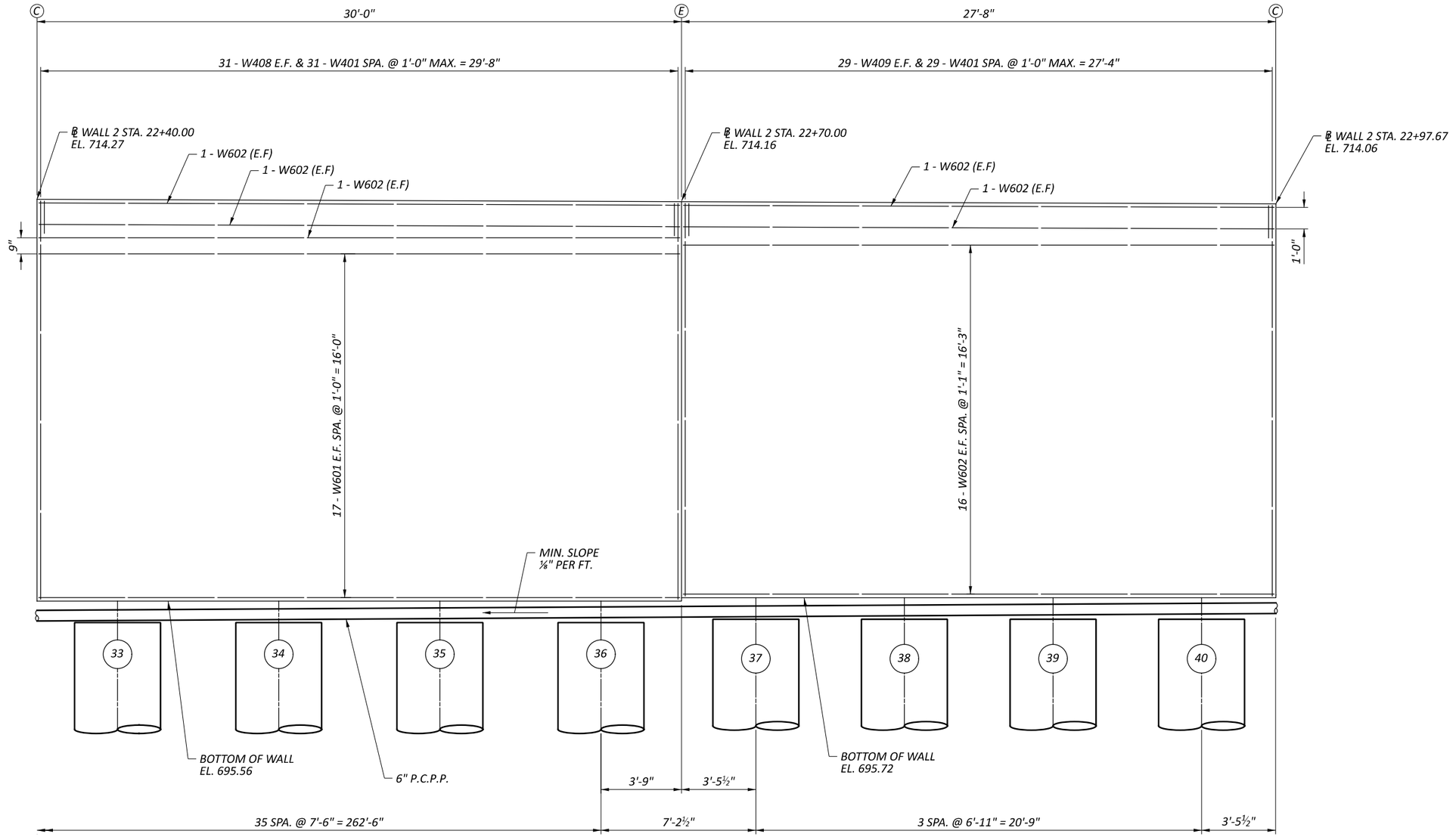
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 8 | TOTAL 14

SHEET P.862 | TOTAL P.1135




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

CUY-77-11.41 - PART 1

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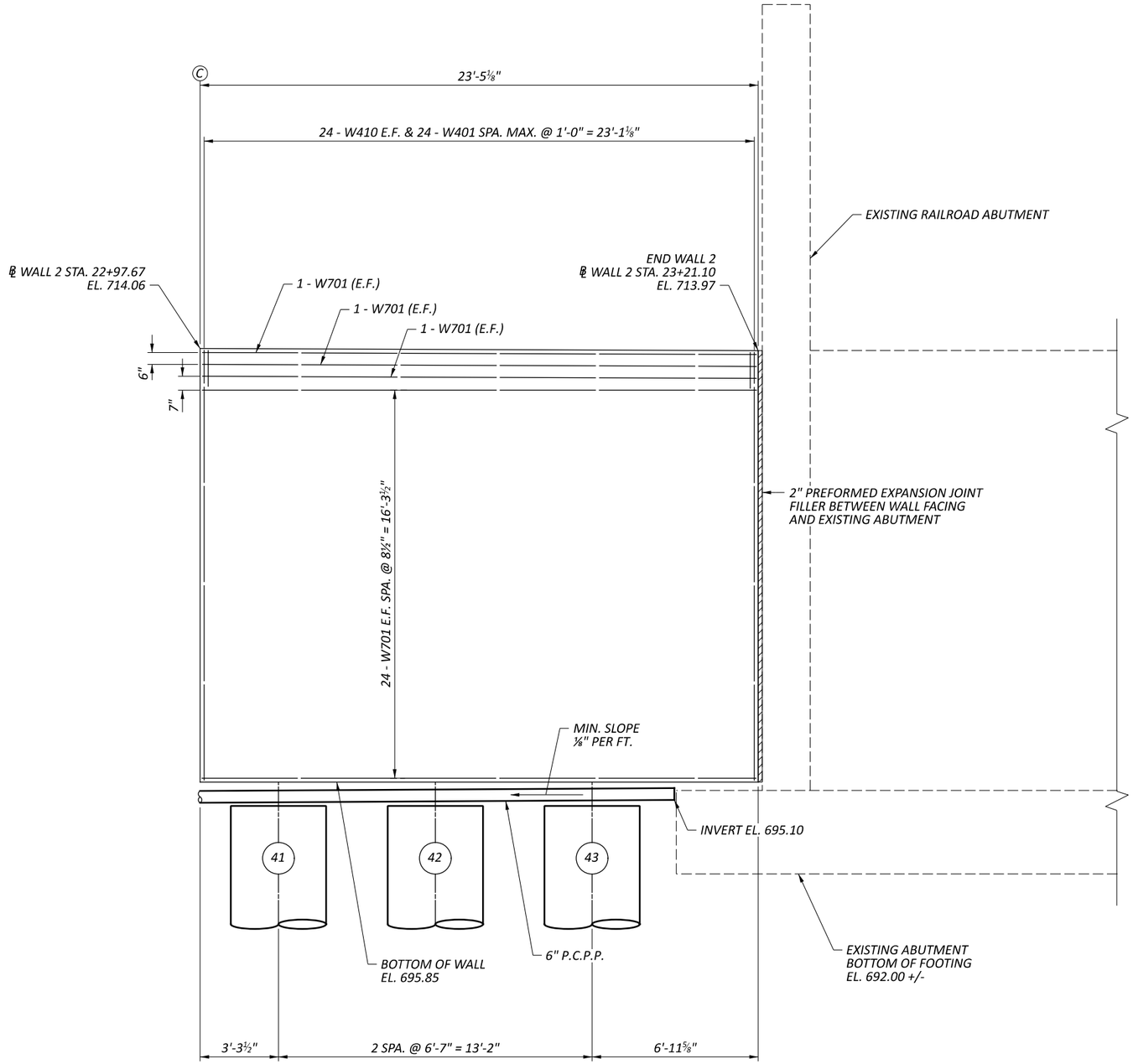
DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 9 / 14 |
| SHEET / TOTAL | P.863 / P.1135 |




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

# WALL ELEVATION
# RETAINING WALL 2

CUY-77-11.41 - PART 1

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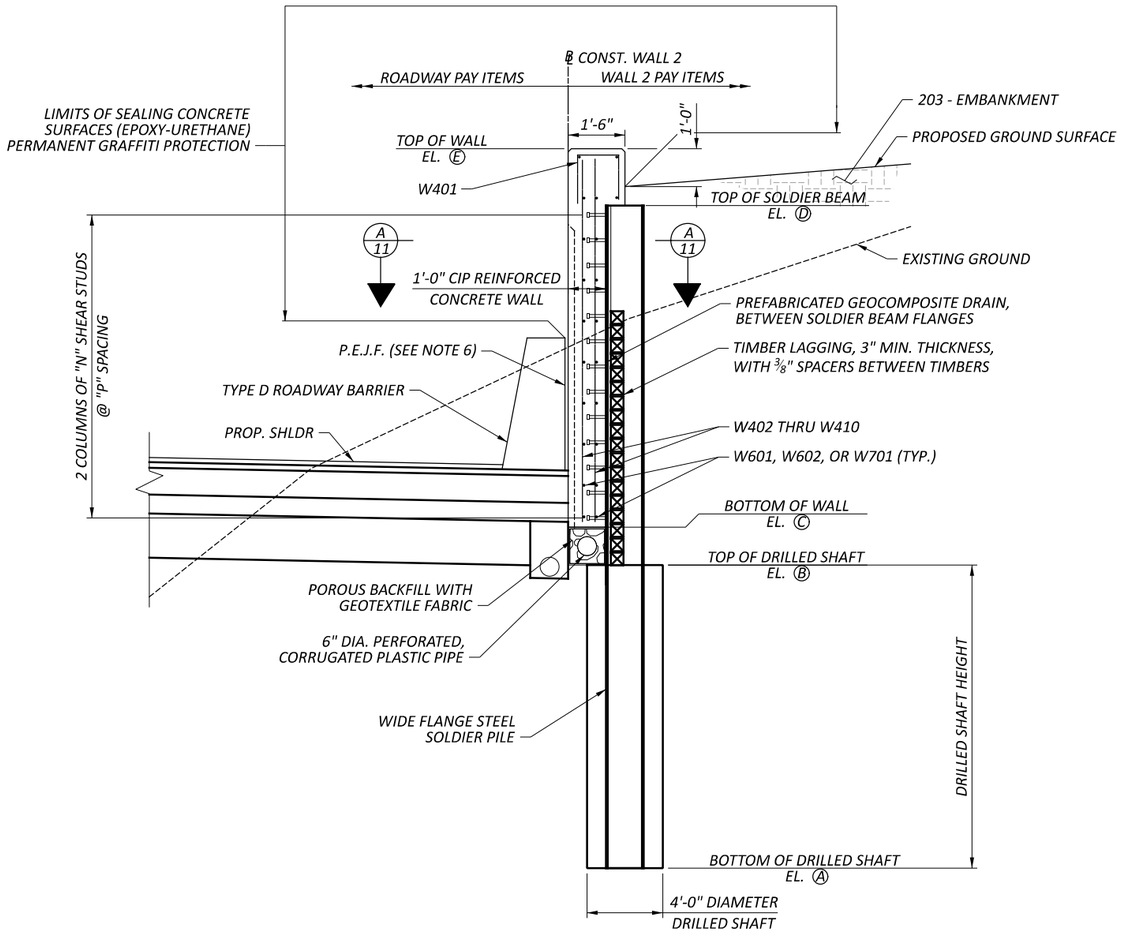
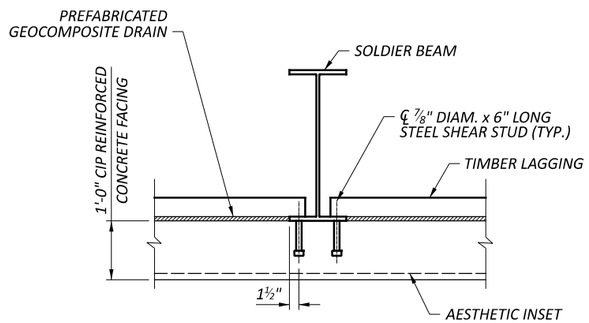
DESIGN AGENCY: TRC

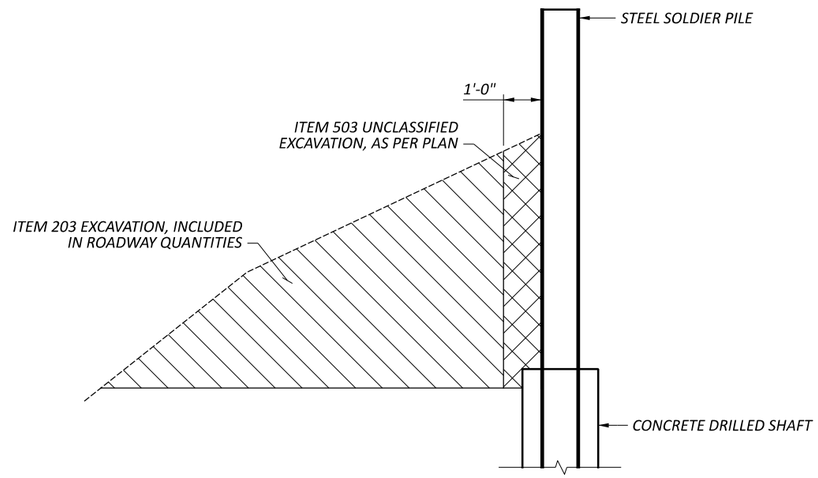
| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 10 / 14 |
| SHEET / TOTAL | P.864 / P.1135 |




## WALL 2 TYPICAL SECTION




## SECTION A-A




## EXCAVATION SCHEMATIC

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 12/14.
6. THE VOID BETWEEN THE ROADWAY BARRIER AND THE NOMINAL FACE OF WALL SHALL BE FILLED WITH A STACKED COMBINATION OF 1" P.E.J.F. AND 2" P.E.J.F. UP TO A MAXIMUM THICKNESS OF 6 INCHES. VOIDS IN EXCESS OF 6 INCHES SHALL BE LEFT UNFILLED. ADDITIONAL 2" P.E.J.F. SHALL BE INSTALLED IN THE AESTHETIC INSETS WITHIN THE LIMITS OF STACKED JOINT FILLER.

# TYPICAL SECTION RETAINING WALL 2

CUY-77-11.41 - PART 1

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DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 11 | TOTAL 14
SHEET P.865 | TOTAL P.1135

| DRILLED SHAFT NUMBER | WALL 2 STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20+03.75 | 2.58 RT | 673.14 | 696.14 | 697.25 | 713.14 | 715.14 | 40.00 | 48.00 | W36X160 | 17 | 11.50 in |
| 2 | 20+11.25 | 2.58 RT | 673.14 | 696.14 | 697.25 | 713.11 | 715.11 | 39.97 | 48.00 | W36X160 | 17 | 11.50 in |
| 3 | 20+18.75 | 2.58 RT | 673.14 | 696.14 | 697.25 | 713.08 | 715.08 | 39.94 | 48.00 | W36X160 | 17 | 11.50 in |
| 4 | 20+26.25 | 2.58 RT | 673.14 | 696.14 | 697.25 | 713.05 | 715.05 | 39.91 | 48.00 | W36X160 | 17 | 11.50 in |
| 5 | 20+33.75 | 2.58 RT | 672.82 | 695.82 | 696.93 | 713.03 | 715.03 | 40.21 | 48.00 | W36X160 | 17 | 11.75 in |
| 6 | 20+41.25 | 2.58 RT | 672.82 | 695.82 | 696.93 | 713.00 | 715.00 | 40.18 | 48.00 | W36X160 | 17 | 11.75 in |
| 7 | 20+48.75 | 2.58 RT | 672.82 | 695.82 | 696.93 | 712.97 | 714.97 | 40.15 | 48.00 | W36X160 | 17 | 11.50 in |
| 8 | 20+56.25 | 2.58 RT | 672.82 | 695.82 | 696.93 | 712.94 | 714.94 | 40.12 | 48.00 | W36X160 | 17 | 11.50 in |
| 9 | 20+63.75 | 2.58 RT | 672.60 | 695.60 | 696.60 | 712.92 | 714.92 | 40.32 | 48.00 | W36X160 | 17 | 11.75 in |
| 10 | 20+71.25 | 2.58 RT | 672.60 | 695.60 | 696.60 | 712.89 | 714.89 | 40.29 | 48.00 | W36X160 | 17 | 11.75 in |
| 11 | 20+78.75 | 2.58 RT | 672.60 | 695.60 | 696.60 | 712.86 | 714.86 | 40.26 | 48.00 | W36X160 | 17 | 11.75 in |
| 12 | 20+86.25 | 2.58 RT | 672.60 | 695.60 | 696.60 | 712.83 | 714.83 | 40.23 | 48.00 | W36X160 | 17 | 11.75 in |
| 13 | 20+93.75 | 2.58 RT | 672.23 | 695.23 | 696.23 | 712.81 | 714.81 | 40.58 | 48.00 | W36X160 | 18 | 11.25 in |
| 14 | 21+01.25 | 2.58 RT | 672.23 | 695.23 | 696.23 | 712.78 | 714.78 | 40.55 | 48.00 | W36X160 | 18 | 11.25 in |
| 15 | 21+08.75 | 2.58 RT | 672.23 | 695.23 | 696.23 | 712.75 | 714.75 | 40.52 | 48.00 | W36X160 | 18 | 11.25 in |
| 16 | 21+16.25 | 2.58 RT | 672.23 | 695.23 | 696.23 | 712.72 | 714.72 | 40.49 | 48.00 | W36X160 | 17 | 11.75 in |
| 17 | 21+23.75 | 2.58 RT | 671.85 | 694.85 | 695.85 | 712.70 | 714.70 | 40.85 | 48.00 | W36X160 | 18 | 11.50 in |
| 18 | 21+31.25 | 2.58 RT | 671.85 | 694.85 | 695.85 | 712.67 | 714.67 | 40.82 | 48.00 | W36X160 | 18 | 11.50 in |
| 19 | 21+38.75 | 2.58 RT | 671.85 | 694.85 | 695.85 | 712.64 | 714.64 | 40.79 | 48.00 | W36X160 | 18 | 11.25 in |
| 20 | 21+46.25 | 2.58 RT | 671.85 | 694.85 | 695.85 | 712.61 | 714.61 | 40.76 | 48.00 | W36X160 | 18 | 11.25 in |
| 21 | 21+53.75 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.58 | 714.58 | 40.86 | 48.00 | W36X160 | 18 | 11.50 in |
| 22 | 21+61.25 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.56 | 714.56 | 40.84 | 48.00 | W36X160 | 18 | 11.50 in |
| 23 | 21+68.75 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.53 | 714.53 | 40.81 | 48.00 | W36X160 | 18 | 11.50 in |
| 24 | 21+76.25 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.50 | 714.50 | 40.78 | 48.00 | W36X160 | 18 | 11.25 in |
| 25 | 21+83.75 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.47 | 714.47 | 40.91 | 48.00 | W36X160 | 18 | 11.50 in |
| 26 | 21+91.25 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.45 | 714.45 | 40.89 | 48.00 | W36X160 | 18 | 11.50 in |
| 27 | 21+98.75 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.42 | 714.42 | 40.86 | 48.00 | W36X160 | 18 | 11.50 in |
| 28 | 22+06.25 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.39 | 714.39 | 40.83 | 48.00 | W36X160 | 18 | 11.50 in |
| 29 | 22+13.75 | 2.58 RT | 671.39 | 694.39 | 695.39 | 712.36 | 714.36 | 40.97 | 48.00 | W36X160 | 18 | 11.50 in |
| 30 | 22+21.25 | 2.58 RT | 671.39 | 694.39 | 695.39 | 712.34 | 714.34 | 40.95 | 48.00 | W36X160 | 18 | 11.50 in |
| 31 | 22+28.75 | 2.58 RT | 671.39 | 694.39 | 695.39 | 712.31 | 714.31 | 40.92 | 48.00 | W36X160 | 18 | 11.50 in |
| 32 | 22+36.25 | 2.58 RT | 671.39 | 694.39 | 695.39 | 712.28 | 714.28 | 40.89 | 48.00 | W36X160 | 18 | 11.50 in |
| 33 | 22+43.75 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.25 | 714.25 | 40.69 | 48.00 | W36X160 | 18 | 11.25 in |
| 34 | 22+51.25 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.23 | 714.23 | 40.67 | 48.00 | W36X160 | 18 | 11.25 in |
| 35 | 22+58.75 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.20 | 714.20 | 40.64 | 48.00 | W36X160 | 18 | 11.25 in |
| 36 | 22+66.25 | 2.58 RT | 671.56 | 694.56 | 695.56 | 712.17 | 714.17 | 40.61 | 48.00 | W36X160 | 18 | 11.25 in |
| 37 | 22+73.46 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.15 | 714.15 | 40.43 | 48.00 | W36X160 | 17 | 11.75 in |
| 38 | 22+80.38 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.12 | 714.12 | 40.40 | 48.00 | W36X160 | 17 | 11.75 in |
| 39 | 22+87.29 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.09 | 714.09 | 40.37 | 48.00 | W36X160 | 17 | 11.75 in |
| 40 | 22+94.21 | 2.58 RT | 671.72 | 694.72 | 695.72 | 712.07 | 714.07 | 40.35 | 48.00 | W36X160 | 17 | 11.75 in |
| 41 | 23+00.96 | 2.60 RT | 674.85 | 694.85 | 695.85 | 712.04 | 714.04 | 37.19 | 48.00 | W36X194 | 17 | 11.75 in |
| 42 | 23+07.54 | 2.60 RT | 674.85 | 694.85 | 695.85 | 712.02 | 714.02 | 37.17 | 48.00 | W36X194 | 17 | 11.75 in |
| 43 | 23+14.13 | 2.60 RT | 674.85 | 694.85 | 695.85 | 712.00 | 714.00 | 37.15 | 48.00 | W36X194 | 17 | 11.50 in |

## PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE
## RETAINING WALL 2

**NOTES:**

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
2. FOR TYPICAL WALL SECTION, SEE SHEET 11/14.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET 12 | TOTAL 14

SHEET P.866 | TOTAL P.1135

CUY-77-11.41 - PART 1

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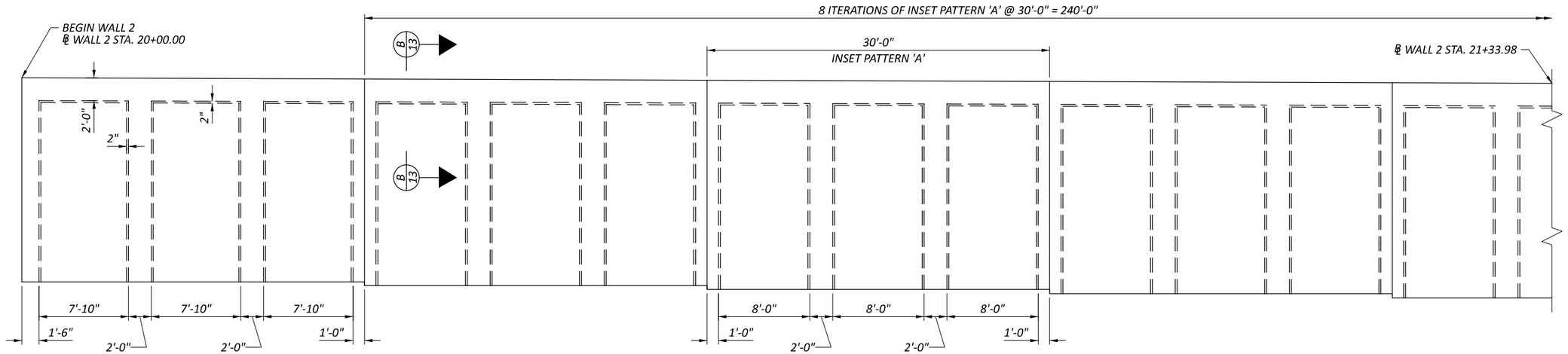
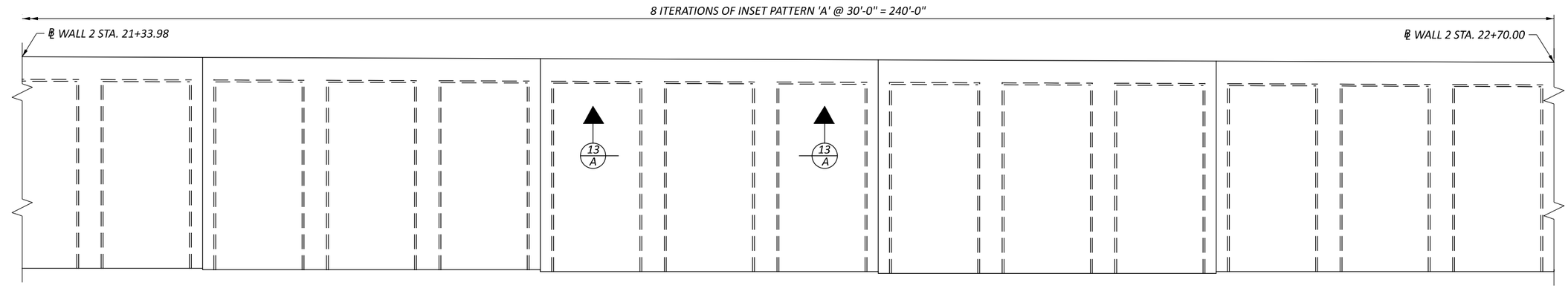
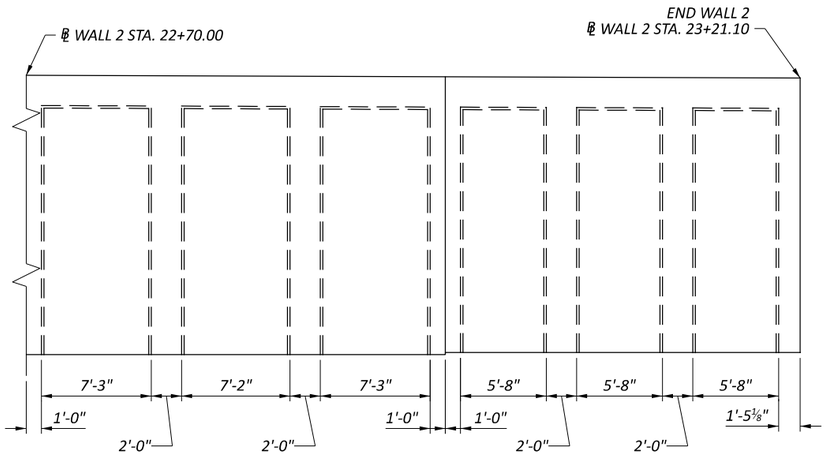
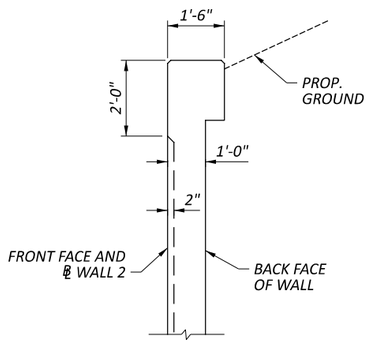


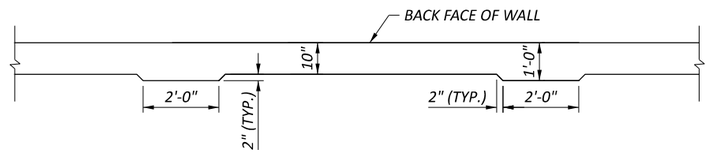




## AESTHETIC WALL FACING ELEVATION

*(LOOKING AT BACK FACE OF WALL)*




## SECTION B-B




## SECTION A-A

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

AESTHETIC DETAILS
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

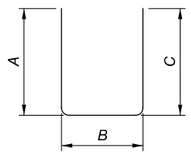
SUBSET 13 | TOTAL 14

SHEET P.867 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:06:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL002\Sheets\105743_WALL002_WD001.dgn

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W401 | 332 | 3'-10" | 850 | 2 | 1'-6" | 1'-0" | 1'-6" | | | | |
| W402 | 62 | 17'-6" | 725 | STR | | | | | | | |
| W403 | 62 | 17'-8" | 732 | STR | | | | | | | |
| W404 | 62 | 17'-11" | 742 | STR | | | | | | | |
| W405 | 62 | 18'-2" | 752 | STR | | | | | | | |
| W406 | 186 | 18'-6" | 2299 | STR | | | | | | | |
| W407 | 62 | 18'-7" | 770 | STR | | | | | | | |
| W408 | 62 | 18'-4" | 759 | STR | | | | | | | |
| W409 | 58 | 18'-1" | 701 | STR | | | | | | | |
| W410 | 48 | 17'-10" | 572 | STR | | | | | | | |
| W601 | 350 | 29'-8" | 15596 | STR | | | | | | | |
| W602 | 36 | 27'-4" | 1478 | STR | | | | | | | |
| W701 | 54 | 13'-1" | 1444 | STR | | | | | | | |
| | | TOTAL | 27,420 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 2

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 14 | TOTAL 14

SHEET P.868 | TOTAL P.1135

CUY-77-11.41 - PART 1

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MODEL: WALL 3 SITE PLAN - 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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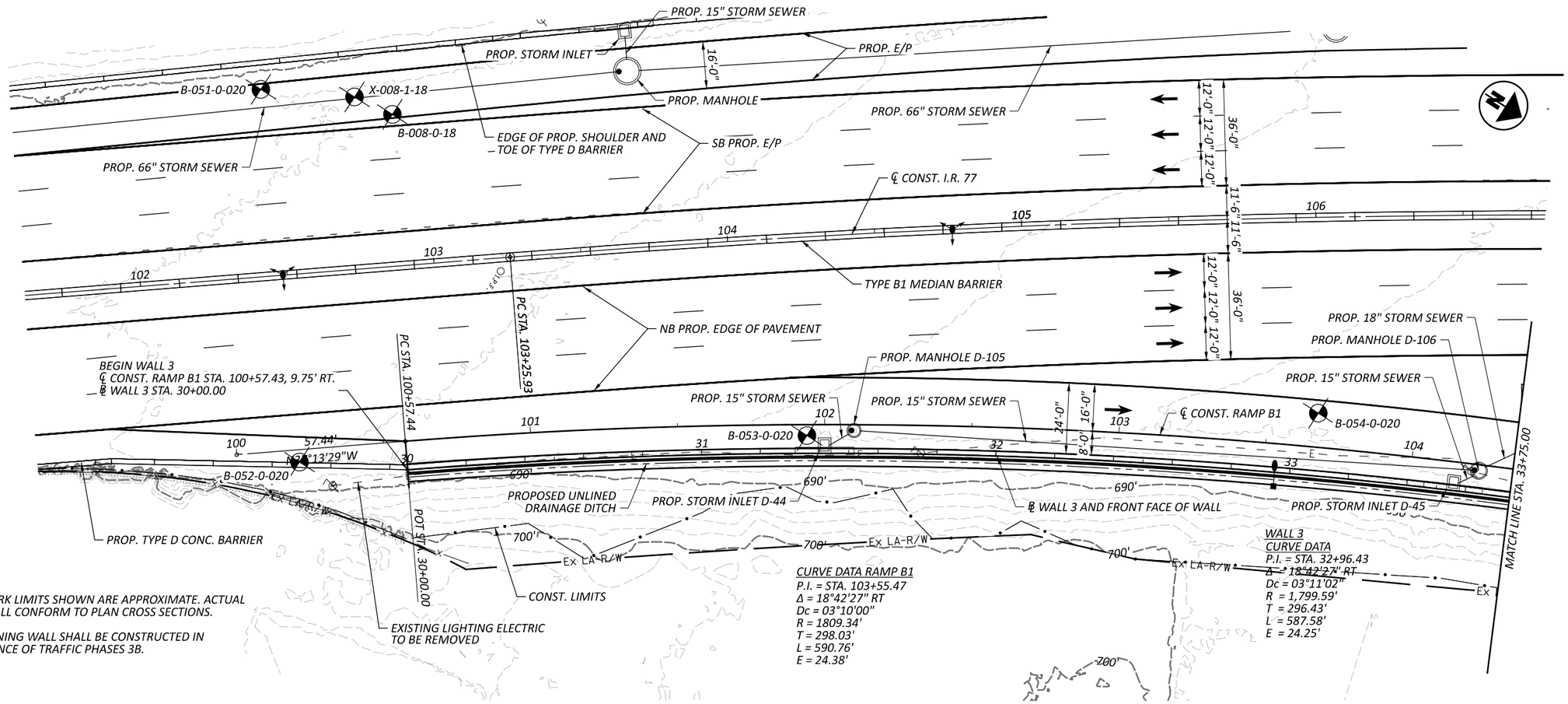


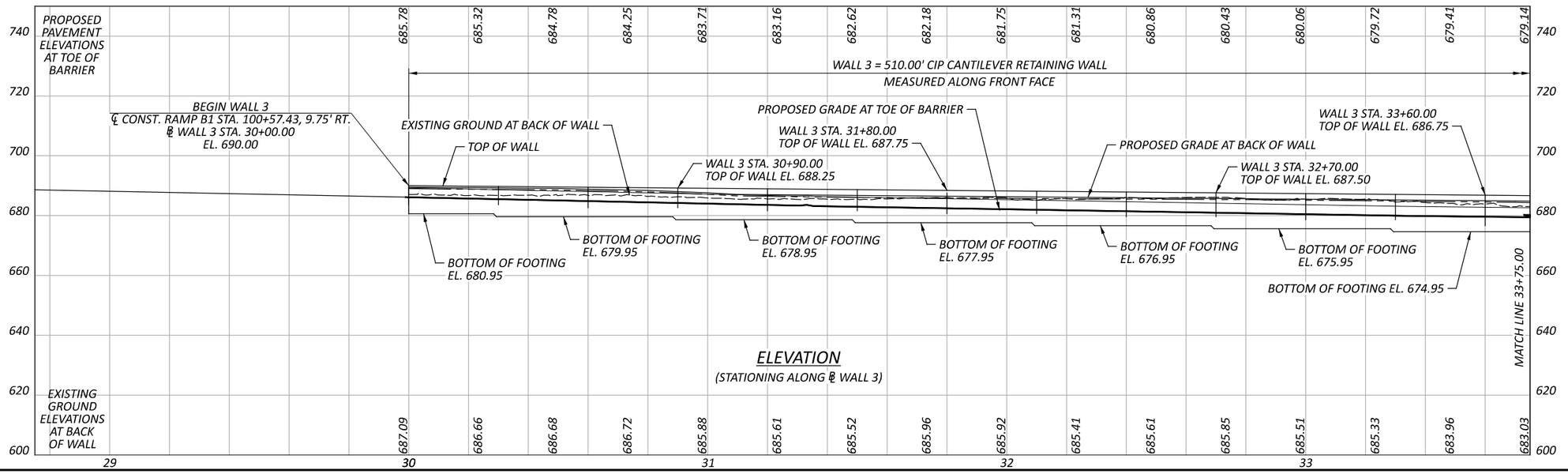

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B.

## LEGEND:

- SOIL BORING LOCATION

## PLAN



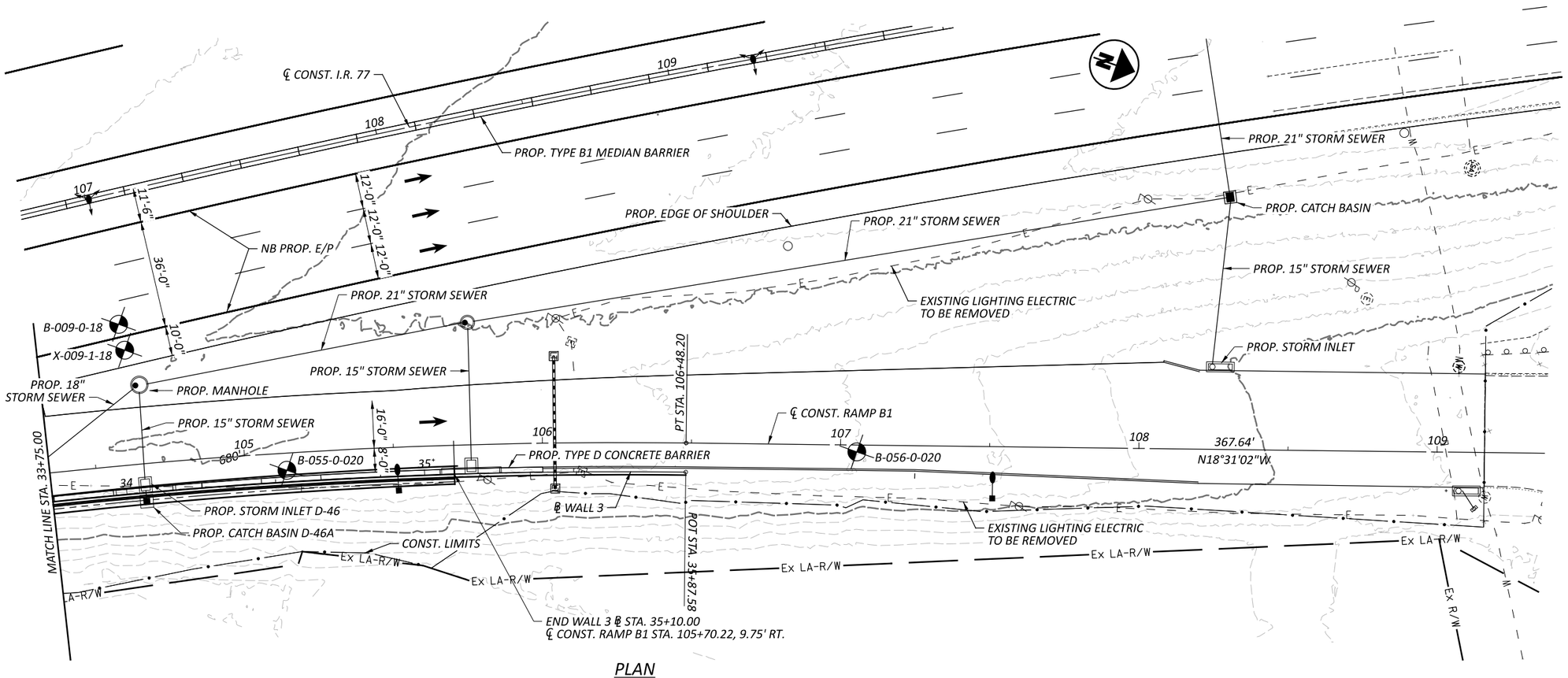

## ELEVATION

(STATIONING ALONG ℄ WALL 3)

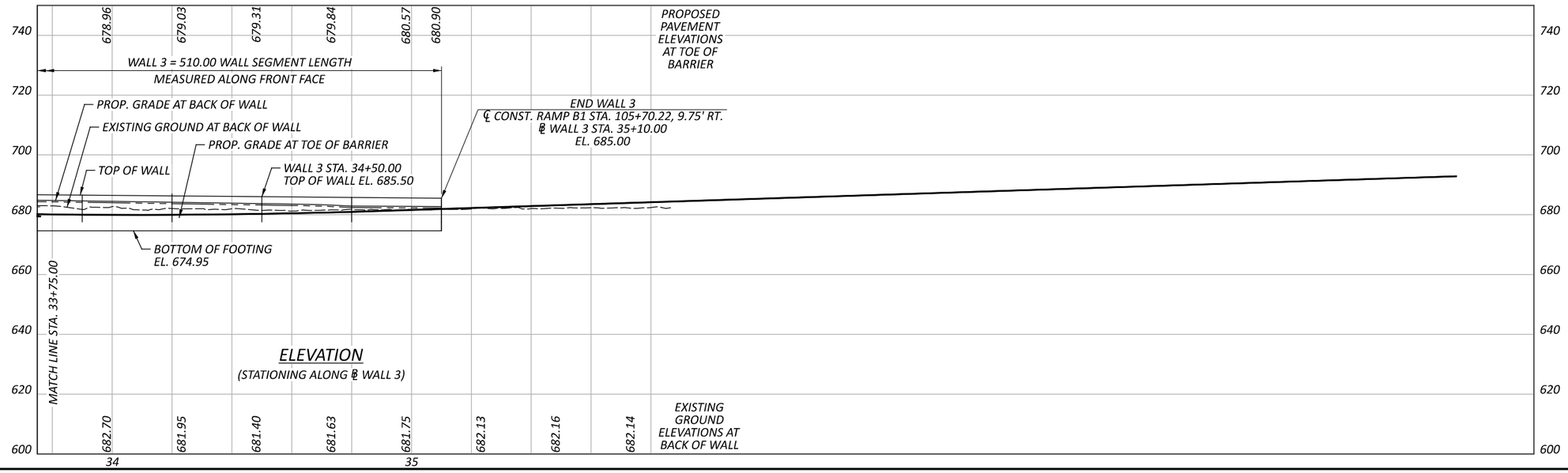
SITE PLAN 1 OF 2
RETAINING WALL 3

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 14 |
| SHEET | P.869 |
| TOTAL | P.1135 |




PLAN




ELEVATION

(STATIONING ALONG ℄ WALL 3)

CUY-77-11.41 - PART 1

SITE PLAN 2 OF 2
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 14

SHEET P.870 | TOTAL P.1135

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## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

## FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.64 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.18 KIPS PER FOOT. THE FACTORED BEARING RESISTANCE IS 5.40 KIPS PER SQUARE FOOT.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
\ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
| - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
VERT. - VERTICAL

### ESTIMATED QUANTITIES (WALL 3)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| 203 | 20000 | | CY | EMBANKMENT | |
| 503 | 21100 | | CY | UNCLASSIFIED EXCAVATION | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| 511 | 46012 | | CY | CLASS QC1 CONCRETE WITH QC/QA, RETAINING WALL NOT INCLUDING FOOTING | |
| 511 | 46512 | | CY | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 3 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |

GENERAL NOTES AND QUANTITIES
RETAINING WALL 3

DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 14
SHEET P.871 | TOTAL P.1135

CUY-77-11.41 - PART 1

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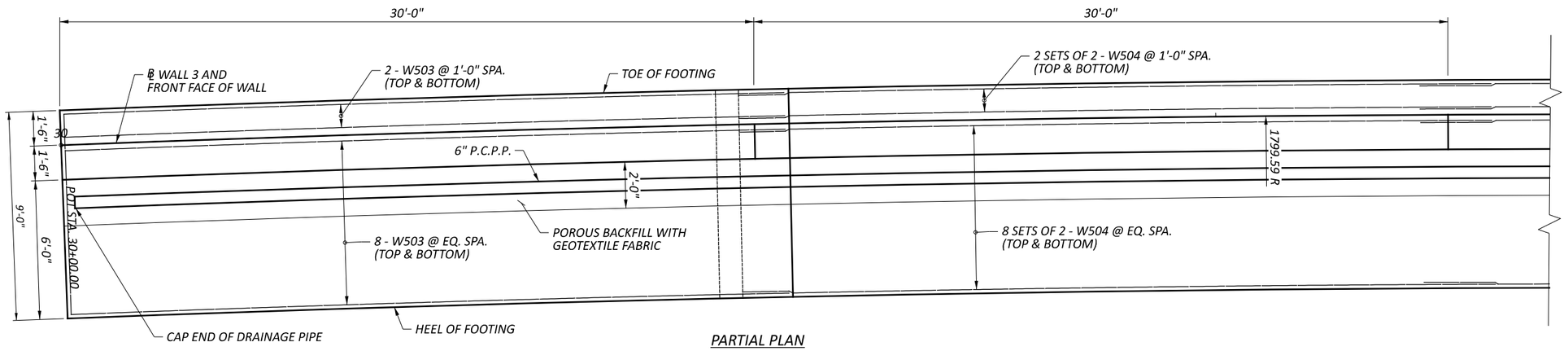
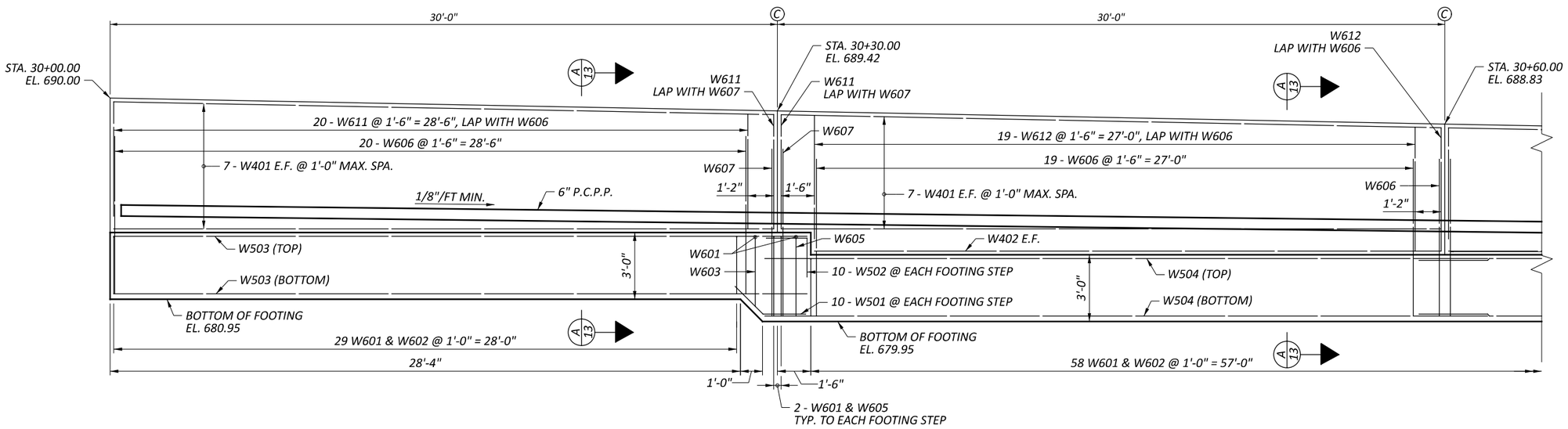



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 1-2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC

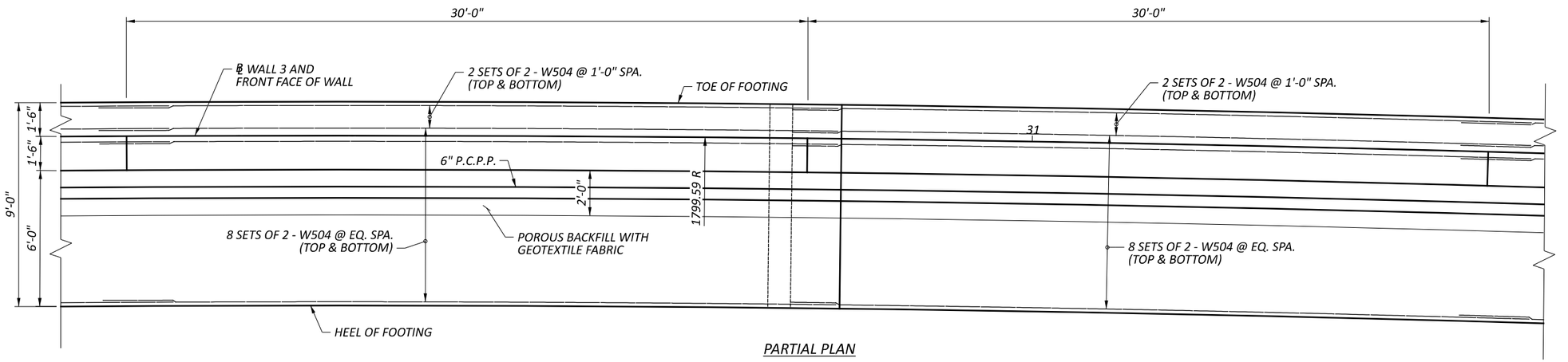
DESIGNER: JCP

REVIEWER: CJW 11/17/25

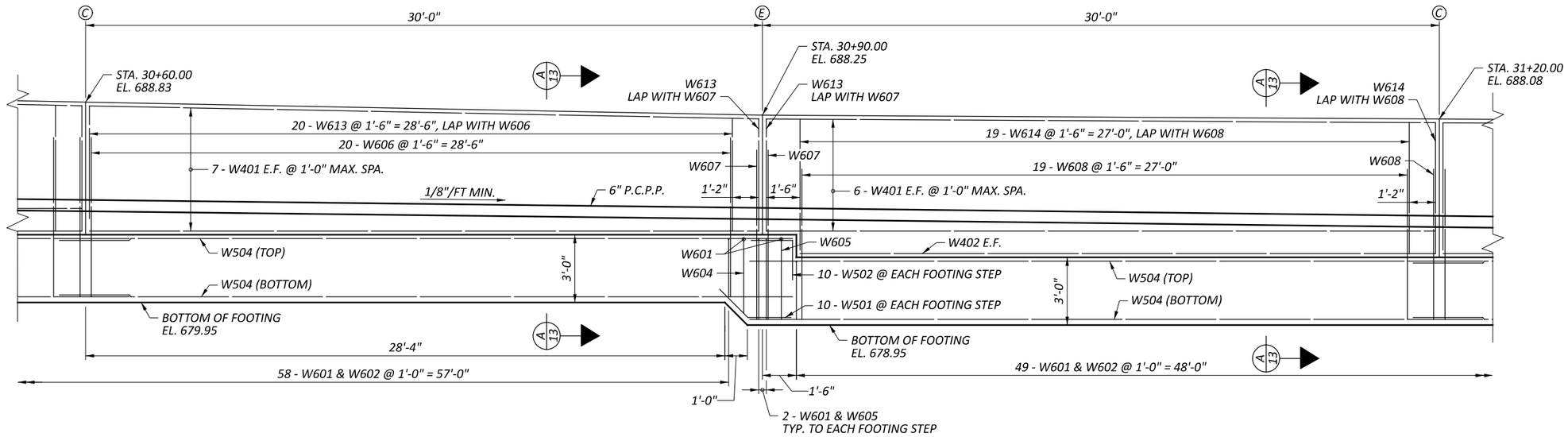
PROJECT ID: 105743

SUBSET: 4 | TOTAL: 14

SHEET: P.872 | TOTAL: P.1135




PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
## RETAINING WALL 3

CUY-77-11.41 - PART 1

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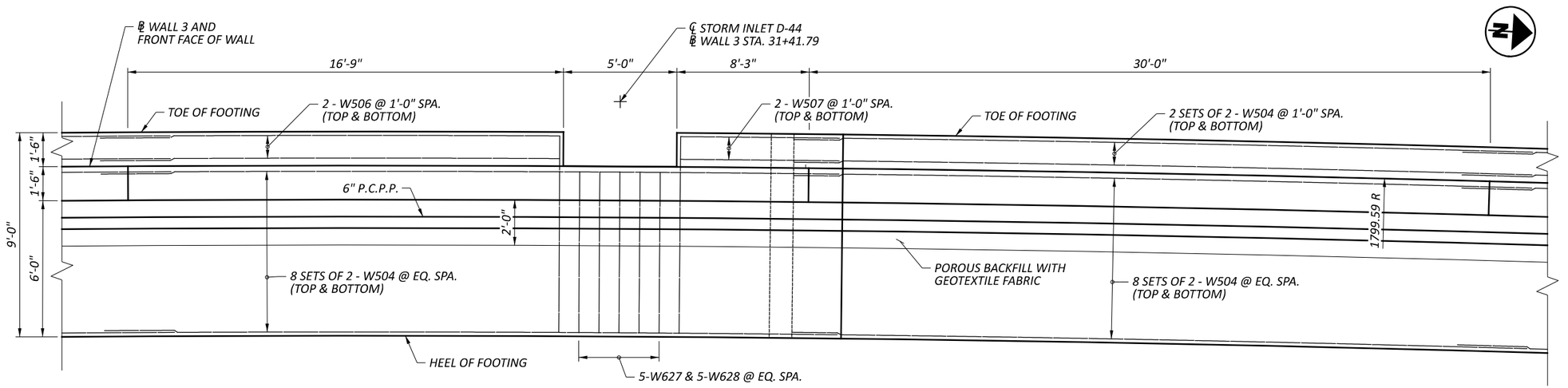
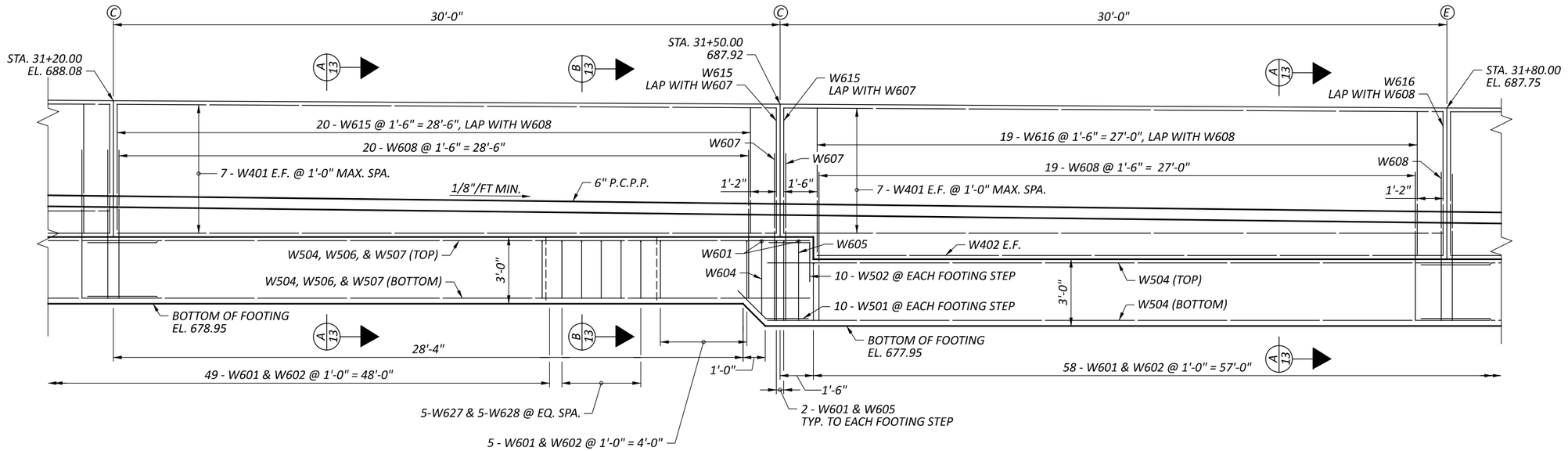
DESIGN AGENCY TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 14 |
| SHEET | P.873 |
| TOTAL | P.1135 |




PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

**LEGEND:**

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

**NOTES:**

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
## RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 6 TOTAL: 14

SHEET: P.874 TOTAL: P.1135

CUY-77-11.41 - PART 1

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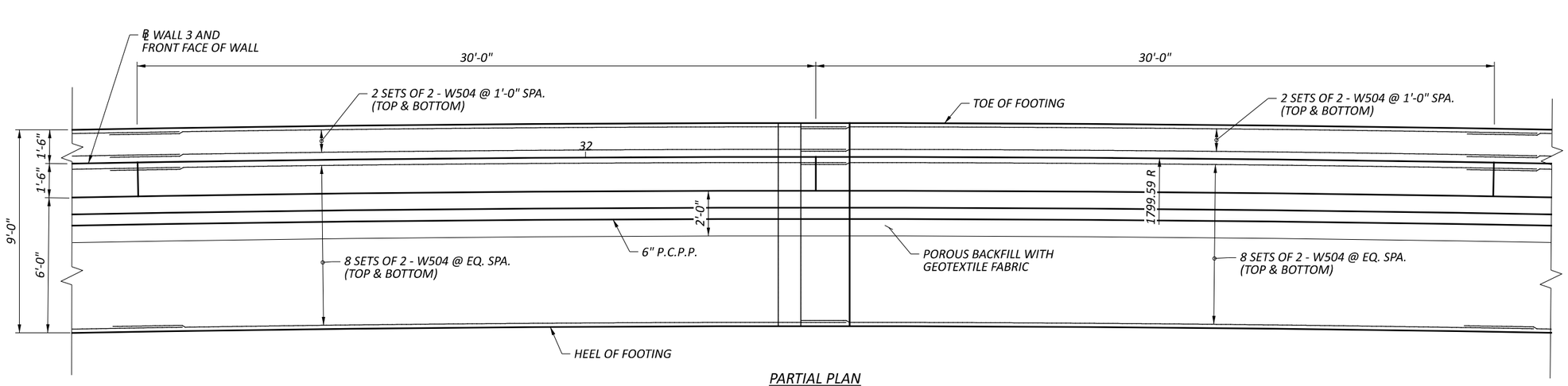
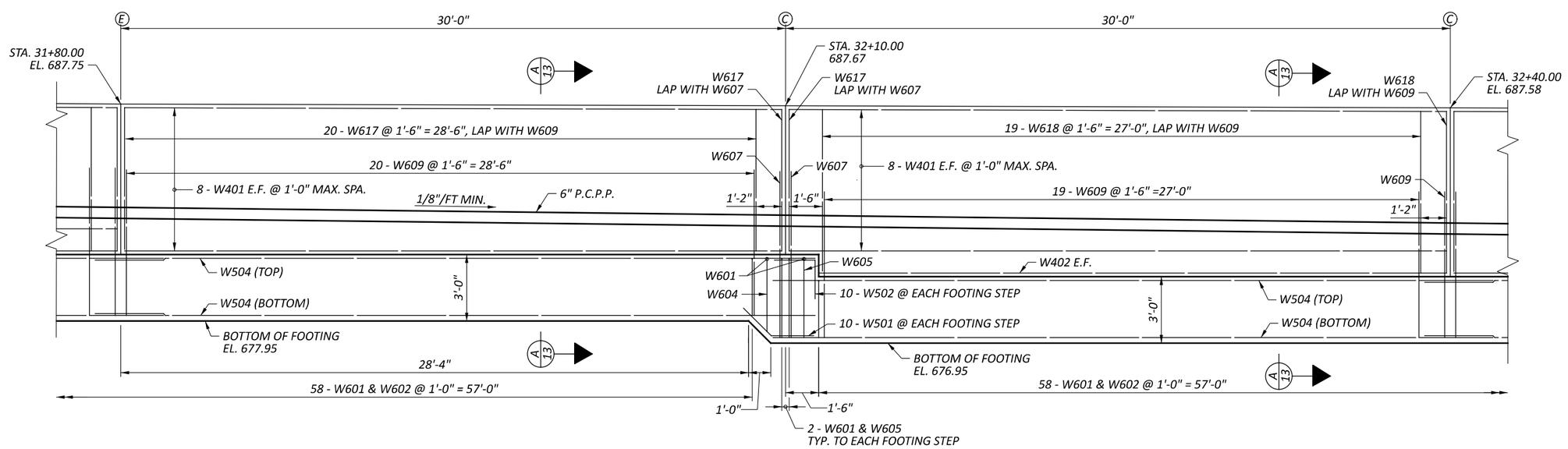



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

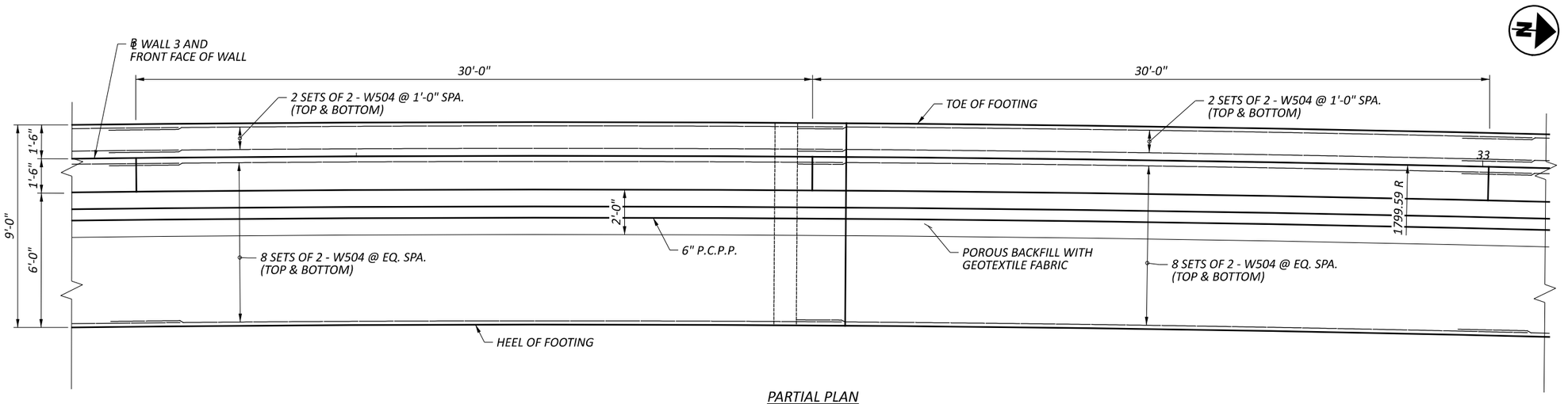
DESIGNER: JCP

REVIEWER: CJW 11/17/25

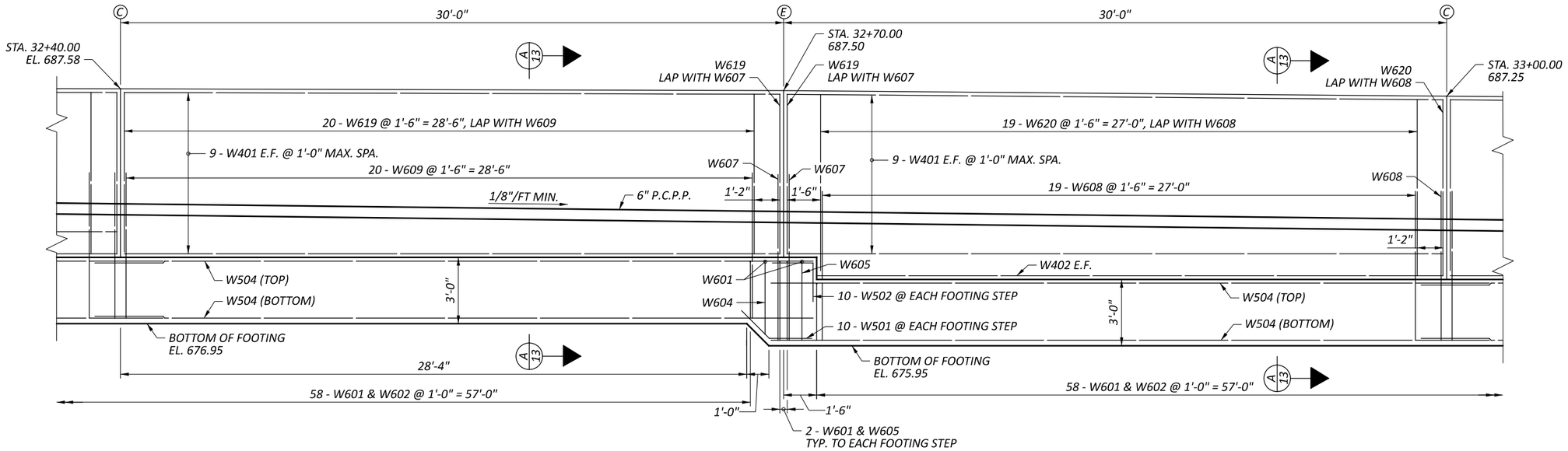
PROJECT ID: 105743

SUBSET: 7 | TOTAL: 14

SHEET: P.875 | TOTAL: P.1135




PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

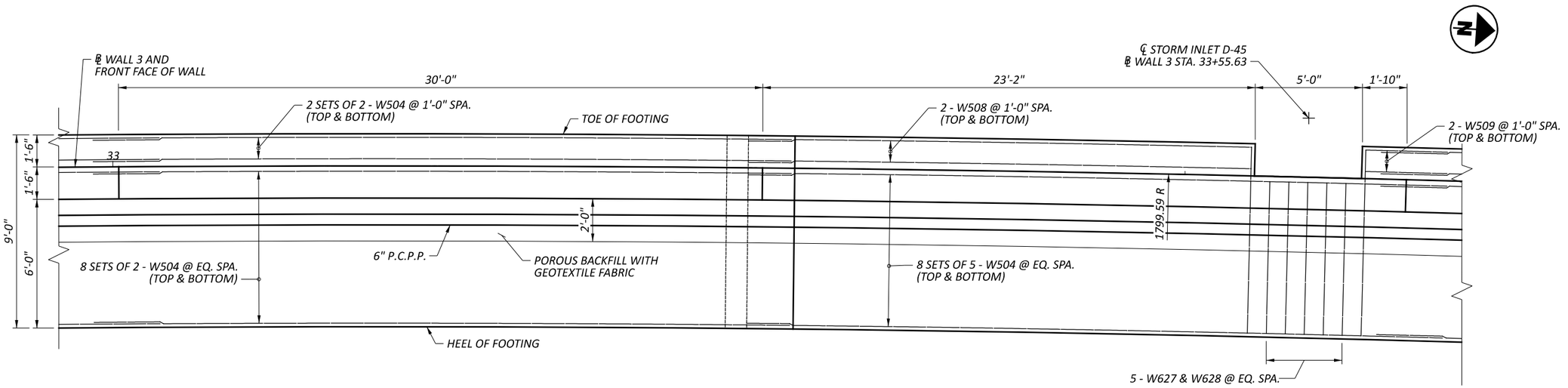
DESIGNER: JCP

REVIEWER: CJW 11/17/25

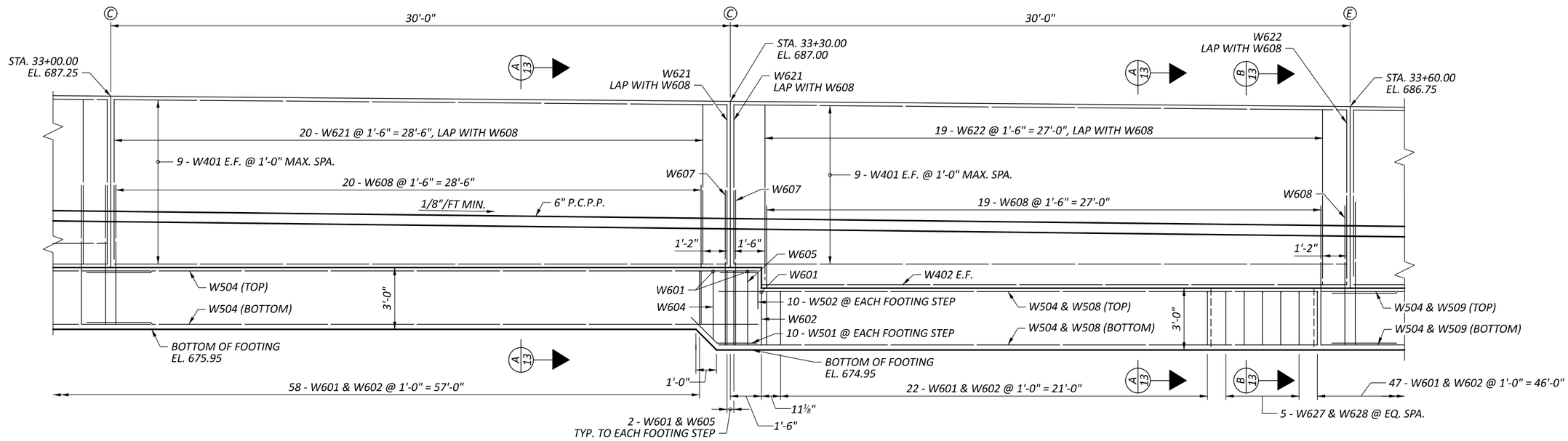
PROJECT ID: 105743

SUBSET: 8 | TOTAL: 14

SHEET: P.876 | TOTAL: P.1135




PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 9 | TOTAL: 14

SHEET: P.877 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 11-12 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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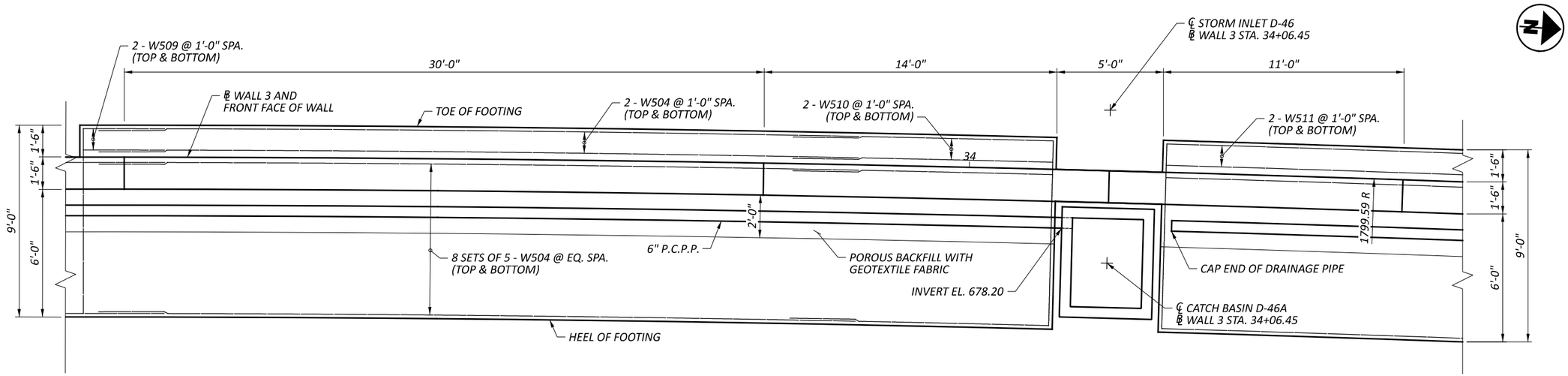
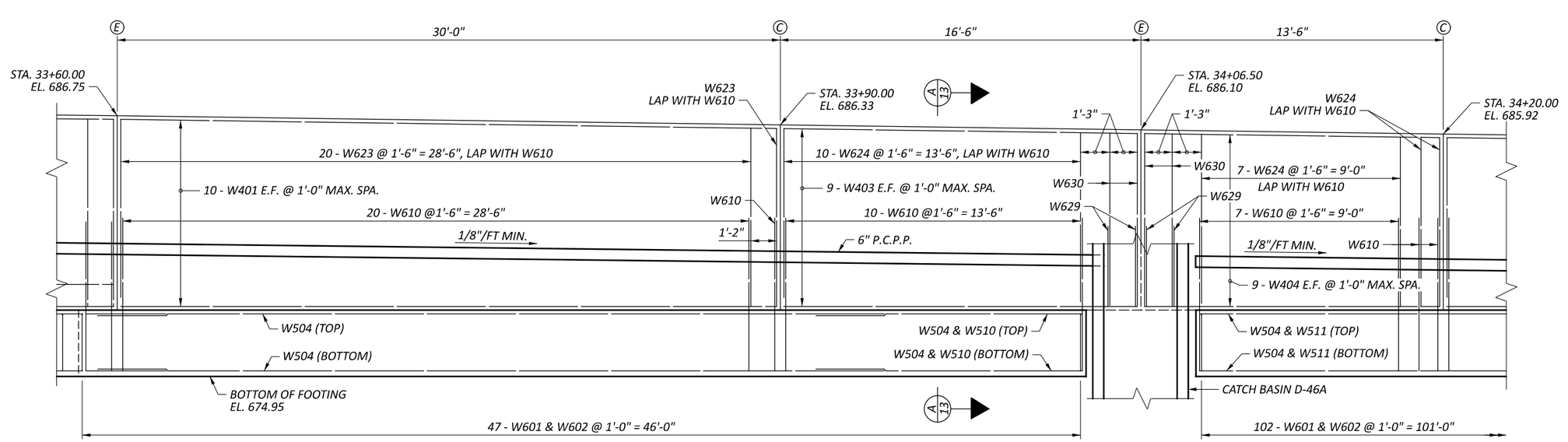



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
4. SEE DRAINAGE PLANS FOR CATCH BASIN DETAILS.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

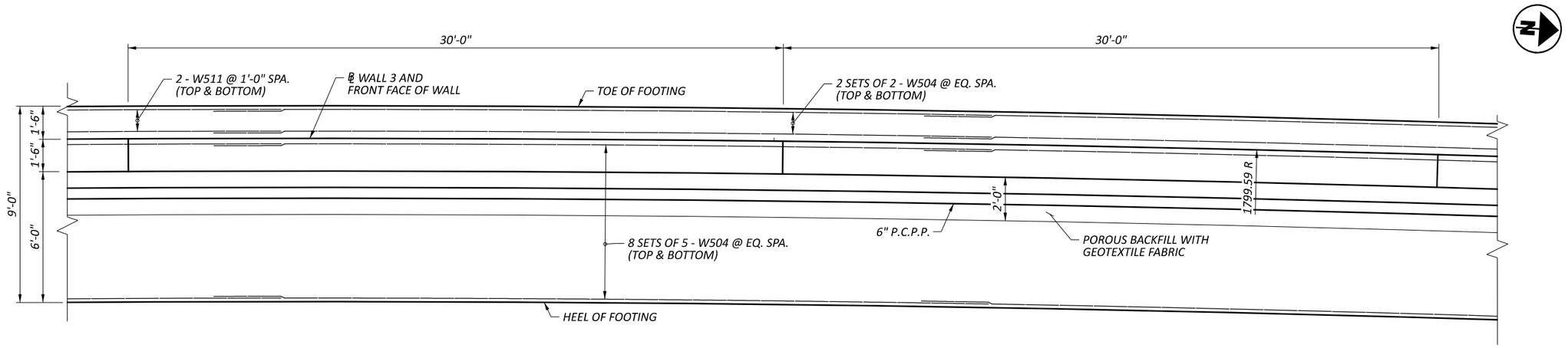
PROJECT ID: 105743

SUBSET: 10 | TOTAL: 14

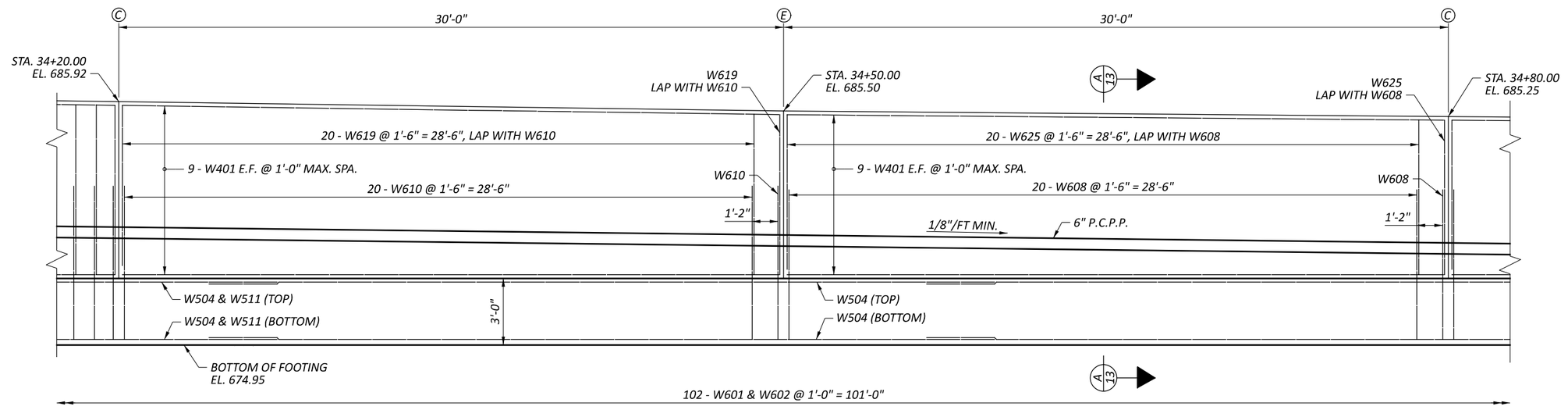
SHEET: P.878 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 13-14 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Structures\WALL003\Sheets\105743_WALL003_WE001.dgn




PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 11 | TOTAL: 14

SHEET: P.879 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 15-16 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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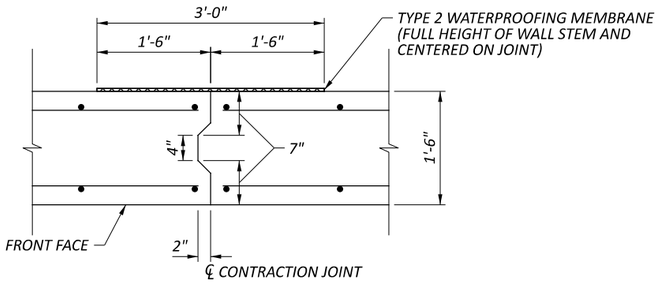
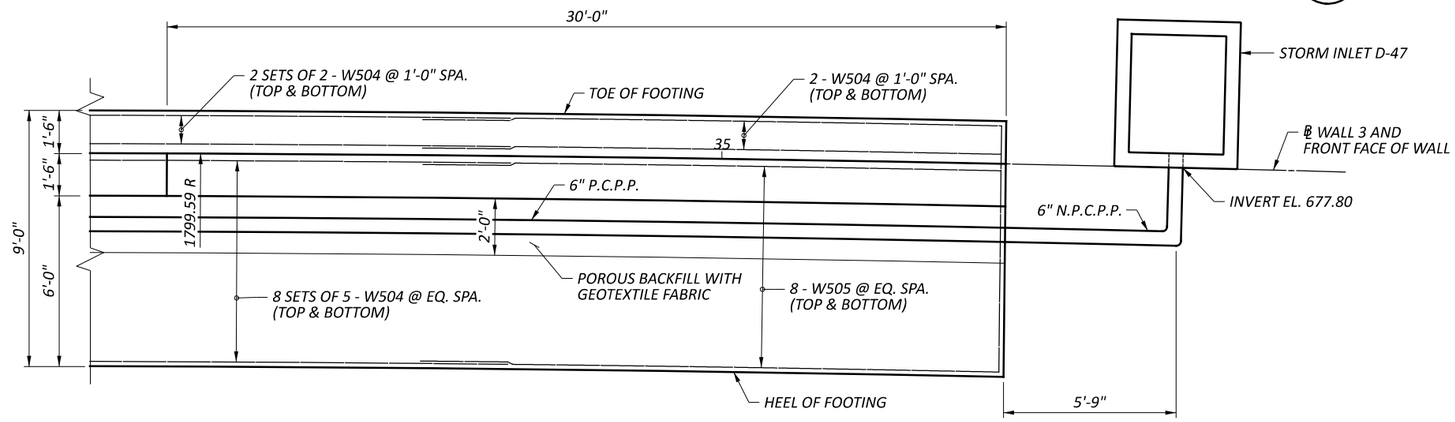
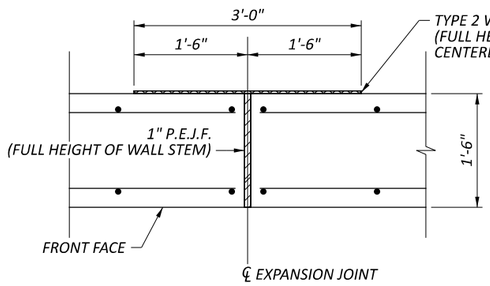


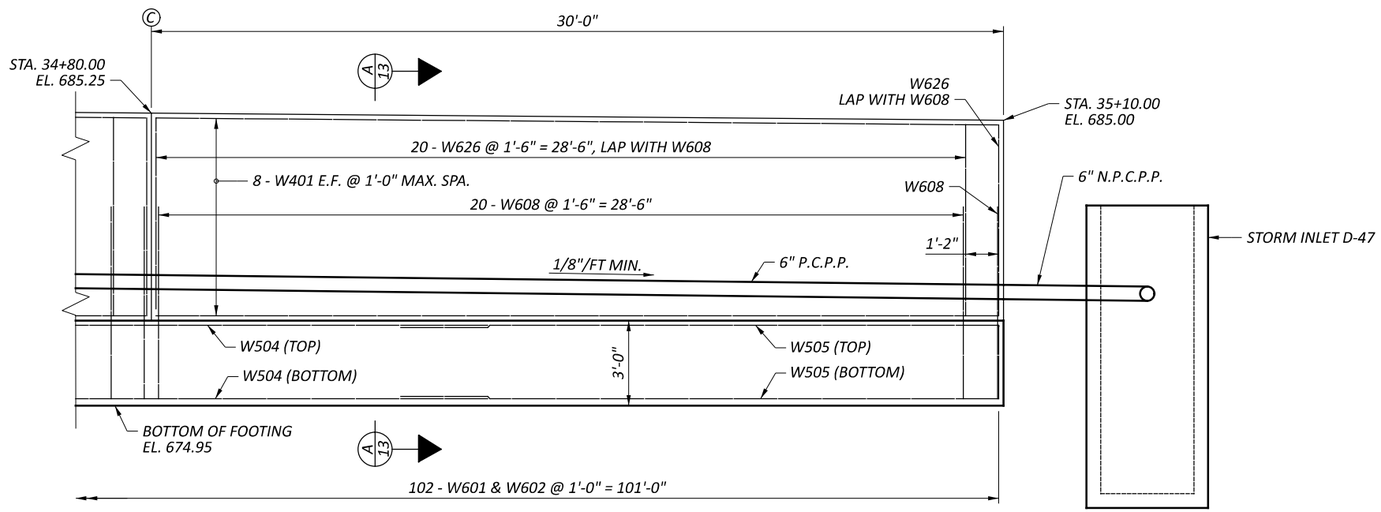

CONTRACTION JOINT DETAIL




PARTIAL PLAN




EXPANSION JOINT DETAIL




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
4. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.

# WALL ELEVATION AND REINFORCEMENT DETAILS
# RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 12 | TOTAL: 14

SHEET: P.880 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 17 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:34 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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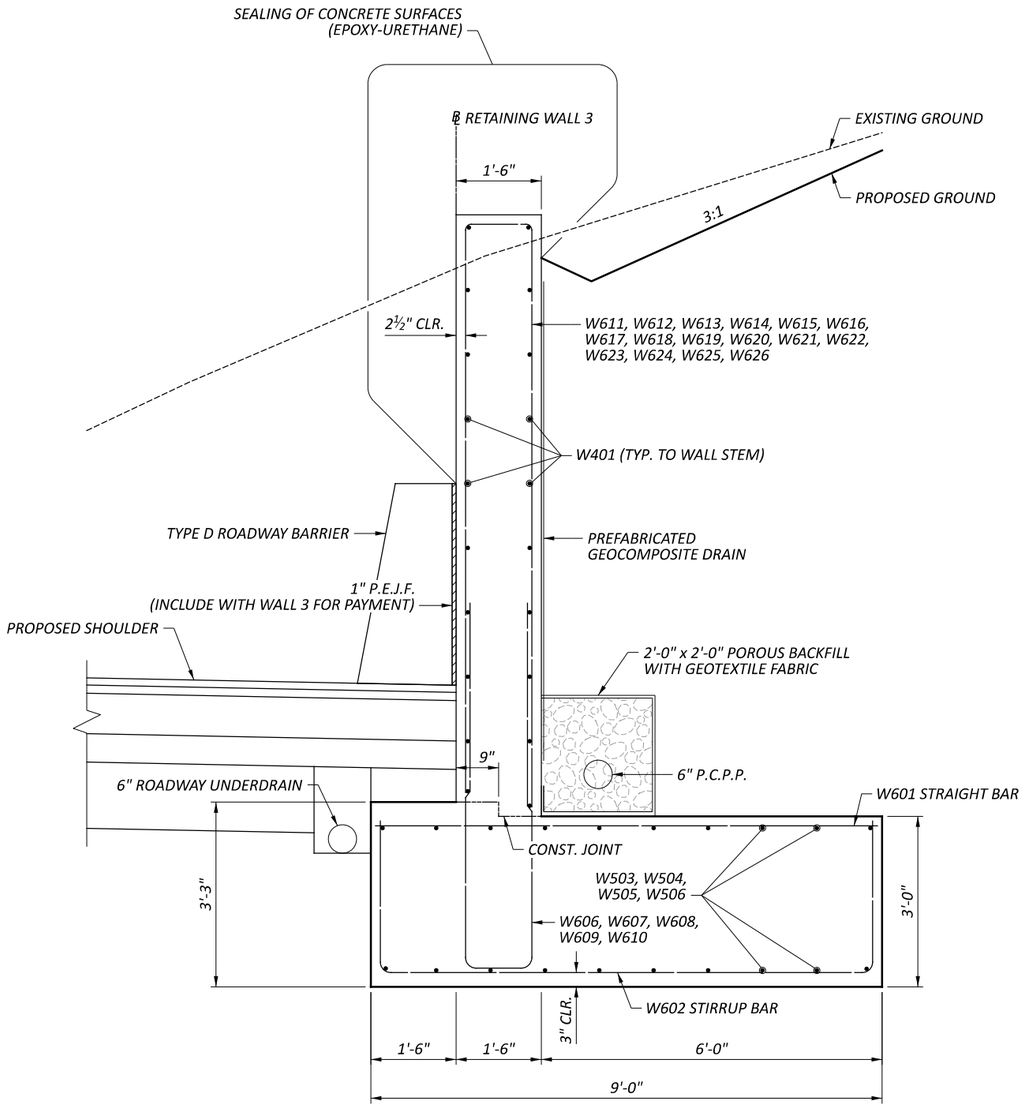
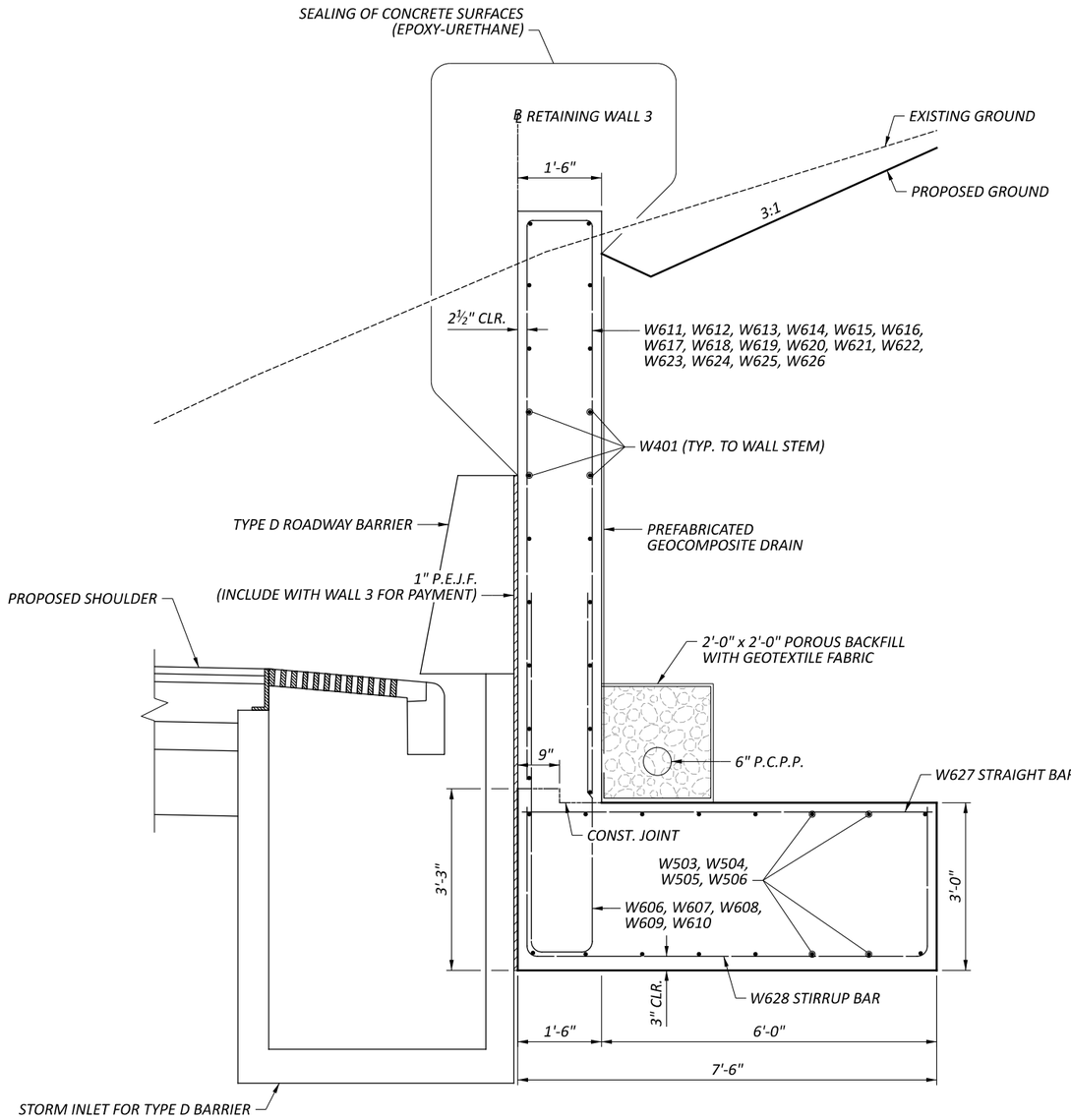



SECTION A-A




SECTION B-B

*NOTES:*

1. FOR WALL ELEVATIONS, SEE SHEETS 4/14 THRU 12/14.
2. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
3. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.
4. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

# TYPICAL SECTIONS RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 13 | TOTAL 14

SHEET P.881 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Wall 3 Typical Sections PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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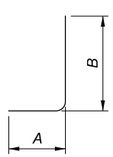
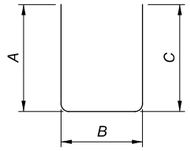
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **WALL 3 REINFORCEMENT** | | | | | | | | | | | |
| W401 | 240 | 29'-8" | 4756 | STR | | | | | | | |
| W402 | 12 | 28'-2" | 226 | STR | | | | | | | |
| W403 | 18 | 16'-0" | 192 | STR | | | | | | | |
| W404 | 18 | 13'-4" | 160 | STR | | | | | | | |
| | | | | | | | | | | | |
| W501 | 60 | 3'-8" | 229 | 19 | 1'-10" | 1'-4" | 1'-4" | | | | |
| W502 | 60 | 3'-6" | 219 | 1 | 1'-10" | 1'-10" | | | | | |
| W503 | 20 | 31'-2" | 650 | STR | | | | | | | |
| W504 | 288 | 32'-7" | 9787 | STR | | | | | | | |
| W505 | 20 | 20'-5" | 426 | STR | | | | | | | |
| W506 | 4 | 20'-4" | 85 | STR | | | | | | | |
| W507 | 4 | 7'-0" | 29 | STR | | | | | | | |
| W508 | 4 | 23'-6" | 98 | STR | | | | | | | |
| W509 | 4 | 3'-10" | 16 | STR | | | | | | | |
| W510 | 20 | 12'-3" | 256 | STR | | | | | | | |
| W511 | 20 | 18'-2" | 379 | STR | | | | | | | |
| | | | | | | | | | | | |
| W601 | 511 | 8'-8" | 6652 | STR | | | | | | | |
| W602 | 487 | 13'-6" | 9875 | 2 | 2'-7" | 8'-8" | 2'-7" | | | | |
| W603 | 1 | 14'-8" | 22 | 2 | 3'-2" | 8'-8" | 3'-2" | | | | |
| W604 | 5 | 15'-0" | 113 | 2 | 3'-4" | 8'-8" | 3'-4" | | | | |
| W605 | 18 | 15'-6" | 419 | 2 | 3'-7" | 8'-8" | 3'-7" | | | | |
| W606 | 60 | 14'-11" | 1344 | 2 | 7'-1" | 1'-1" | 7'-1" | | | | |
| W607 | 12 | 15'-9" | 284 | 2 | 7'-6" | 1'-1" | 7'-6" | | | | |
| W608 | 162 | 14'-3" | 3467 | 2 | 6'-9" | 1'-1" | 6'-9" | | | | |
| W609 | 60 | 13'-11" | 1254 | 2 | 6'-7" | 1'-1" | 6'-7" | | | | |
| W610 | 63 | 14'-7" | 1380 | 2 | 6'-11" | 1'-1" | 6'-11" | | | | |
| W611 | 44 | 11'-1" | 732 | 2 | 5'-2" | 1'-1" | 5'-2" | | | | |
| W612 | 40 | 11'-11" | 716 | 2 | 5'-7" | 1'-1" | 5'-7" | | | | |
| W613 | 44 | 10'-9" | 710 | 2 | 5'-0" | 1'-1" | 5'-0" | | | | |
| W614 | 40 | 11'-11" | 716 | 2 | 5'-7" | 1'-1" | 5'-7" | | | | |
| W615 | 44 | 12'-1" | 799 | 2 | 5'-8" | 1'-1" | 5'-8" | | | | |
| W616 | 40 | 13'-9" | 826 | 2 | 6'-6" | 1'-1" | 6'-6" | | | | |
| W617 | 44 | 13'-7" | 898 | 2 | 6'-5" | 1'-1" | 6'-5" | | | | |
| W618 | 40 | 15'-5" | 926 | 2 | 7'-4" | 1'-1" | 7'-4" | | | | |
| W619 | 86 | 15'-3" | 1970 | 2 | 7'-3" | 1'-1" | 7'-3" | | | | |
| W620 | 40 | 16'-9" | 1006 | 2 | 8'-0" | 1'-1" | 8'-0" | | | | |
| W621 | 44 | 16'-3" | 1074 | 2 | 7'-9" | 1'-1" | 7'-9" | | | | |
| W622 | 40 | 17'-9" | 1066 | 2 | 8'-6" | 1'-1" | 8'-6" | | | | |
| W623 | 42 | 16'-11" | 1067 | 2 | 8'-1" | 1'-1" | 8'-1" | | | | |
| W624 | 42 | 16'-1" | 1015 | 2 | 7'-8" | 1'-1" | 7'-8" | | | | |
| W625 | 42 | 14'-9" | 930 | 2 | 7'-0" | 1'-1" | 7'-0" | | | | |
| W626 | 42 | 14'-3" | 899 | 2 | 6'-9" | 1'-1" | 6'-9" | | | | |
| W627 | 10 | 7'-2" | 108 | STR | | | | | | | |
| W628 | 10 | 12'-0" | 180 | 2 | 2'-7" | 7'-2" | 2'-7" | | | | |
| W629 | 4 | 8'-3" | 50 | 2 | 3'-9" | 1'-1" | 3'-9" | | | | |
| W630 | 4 | 16'-3" | 98 | 2 | 7'-9" | 1'-1" | 7'-9" | | | | |
| | | | | | | | | | | | |
| | | TOTAL | 58104 | | | | | | | | |




TYPE-1

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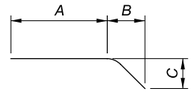



TYPE-19

## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 14 | TOTAL 14
SHEET P.882 | TOTAL P.1135

CUY-77-11.41 - PART 1

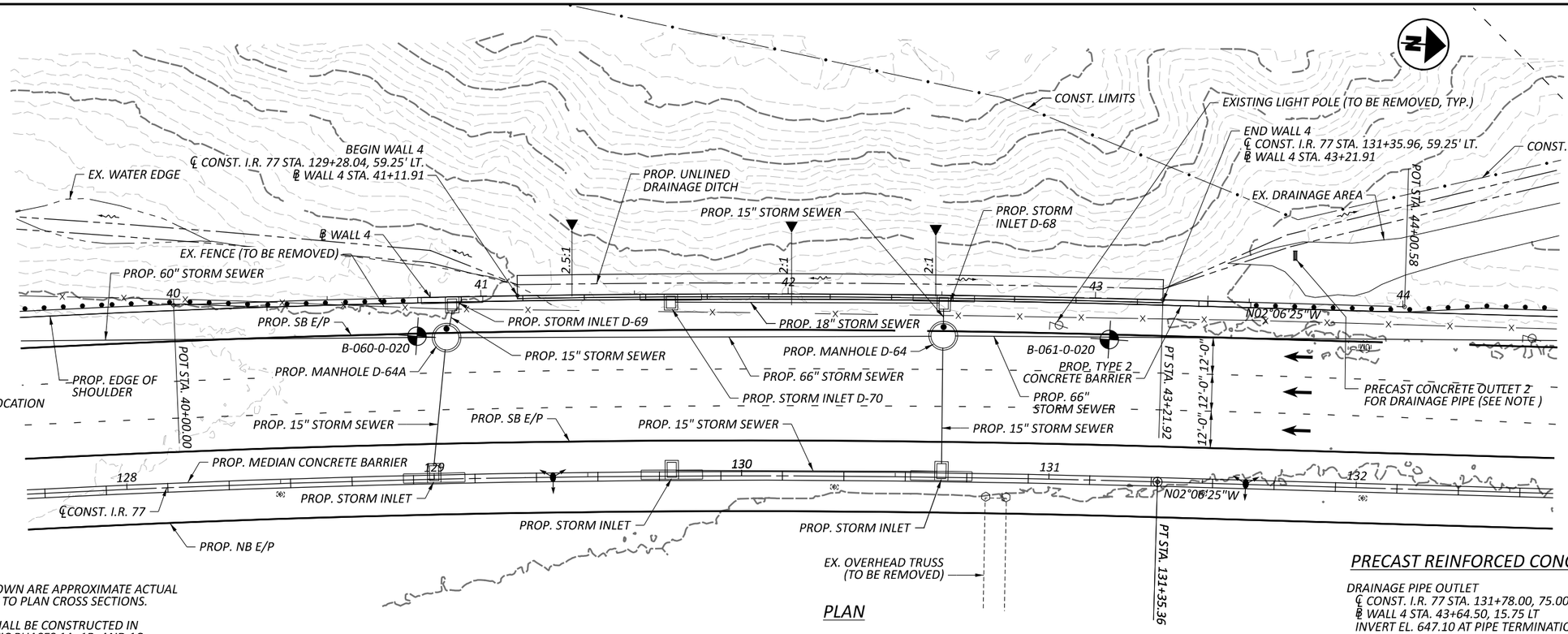
MODEL: Reinforcing Steel List PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:07:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL003\Sheets\105743_WALL003_WL001.dgn

CURVE DATA WALL 4
P.I. = STA. 41+61.02
Δ = 3°-58'-21" RT
Dc = 01°14'21" RT
R = 4,642.91'
T = 161.02'
L = 321.92'
E = 2.79'

CURVE DATA I.R. 77
P.I. = STA. 117+76.34
Δ = 35°-07'-04" RT
Dc = 01°-15'-00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

**LEGEND:**

- SOIL BORING LOCATION



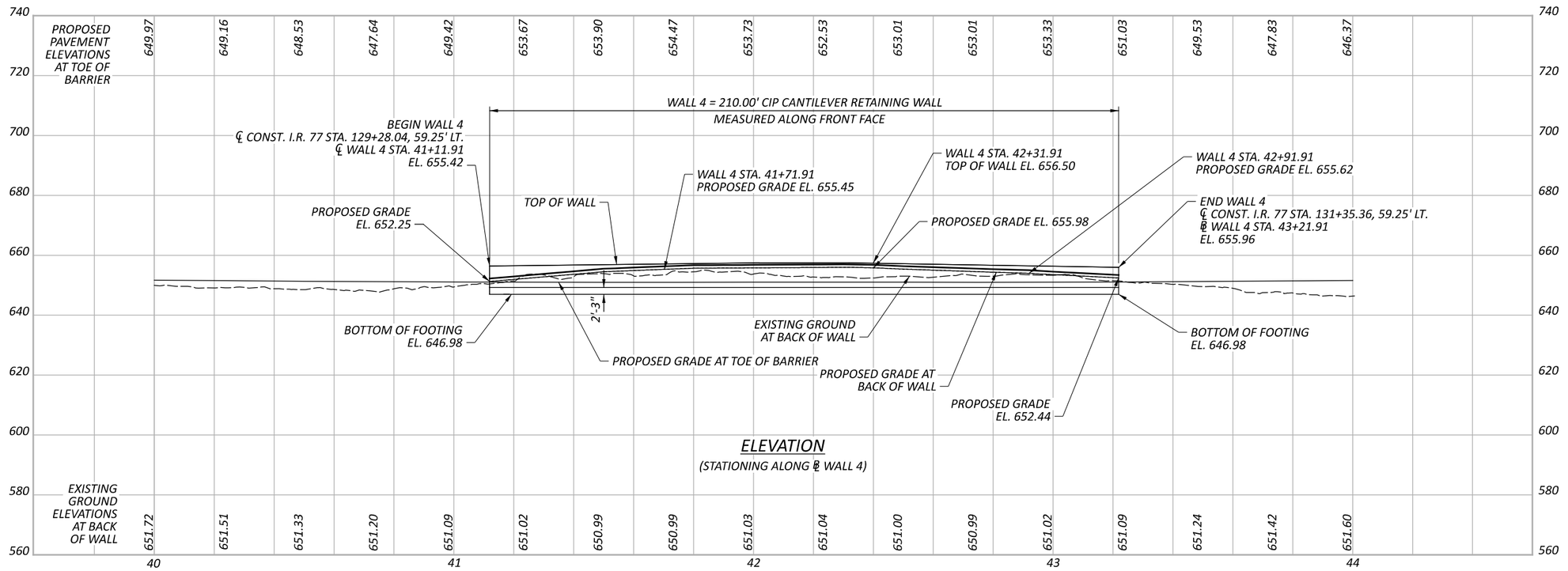

PLAN

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

PRECAST REINFORCED CONCRETE OUTLETS:

DRAINAGE PIPE OUTLET
℄ CONST. I.R. 77 STA. 131+78.00, 75.00' LT
℄ WALL 4 STA. 43+64.50, 15.75 LT
INVERT EL. 647.10 AT PIPE TERMINATION




ELEVATION

(STATIONING ALONG ℄ WALL 4)

SITE PLAN
RETAINING WALL 4

DESIGN AGENCY: TRC
DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 10
SHEET: P.883 TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: BLP_004 - WALL 4 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL004\Sheets\105743_WALL004A_WP001.dgn

## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:
DM-1.1 REVISED 7/17/20

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

## FOUNDATION BEARING RESISTANCE:

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.31 KIPS PER SQUARE FOOT AND MAXIMUM STRENGTH LOAD PRESSURE OF 1.73 KIPS PER FOOT. THE FACTORED BEARING RESISTANCE IS 3.37 KIPS PER SQUARE FOOT.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN:

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL STEM AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## DRAINAGE PIPE OUTLETS:

PRECAST CONCRETE OUTLET WITH TYPE 1 TIED CONCRETE BLOCK MAT SHALL BE INSTALLED AT EACH LOCATION OF DRAIN PIPE TERMINATION SPECIFIED IN THE PLANS. THE OUTLET INSTALLATION AND MATERIALS FURNISHED SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING DM-1.1 AND THE REQUIREMENTS OF CMS 611.

## ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
℄ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
℄ - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 10

SHEET P.884 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## ESTIMATED QUANTITIES (WALL 4)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 203 | 20000 | | CY | EMBANKMENT | |
| | | | | | |
| 503 | 21100 | | CY | UNCLASSIFIED EXCAVATION | |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46012 | | CY | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| 511 | 46512 | | CY | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |
| | | | | | |
| 601 | 21050 | | SY | TIED CONCRETE BLOCK MAT, TYPE 1 | |
| | | | | | |
| 611 | 99710 | | EACH | PRECAST REINFORCED CONCRETE OUTLET | |
| | | | | | |

CUY-77-11.41 - PART 1

MODEL: Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:22 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ESTIMATED QUANTITIES
RETAINING WALL 4

DESIGN AGENCY
TRC

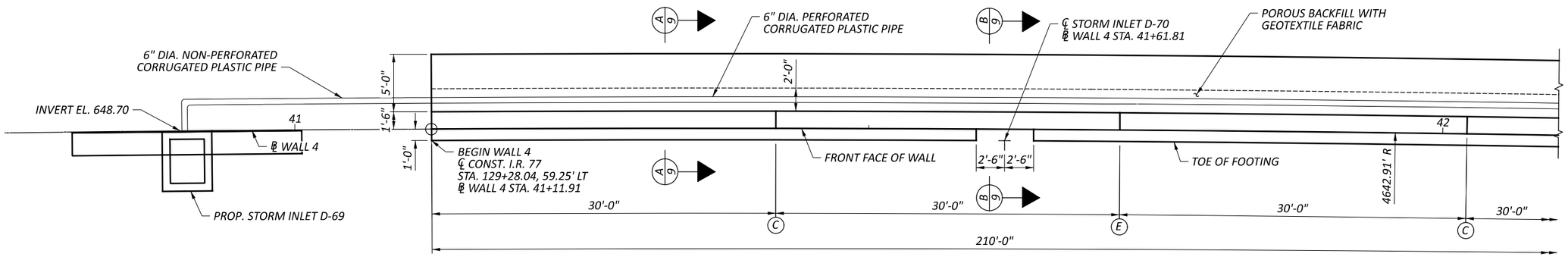
DESIGNER
JCP

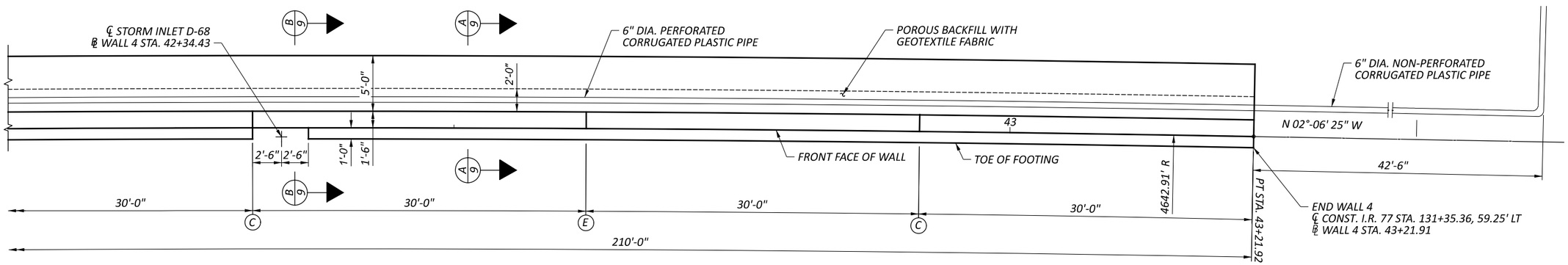
REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 10

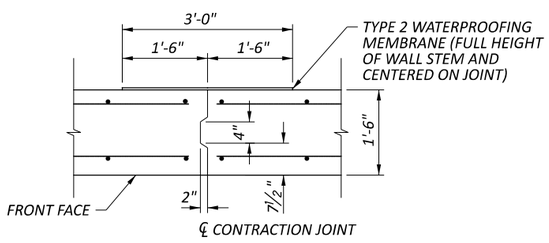
SHEET P.885 | TOTAL P.1135



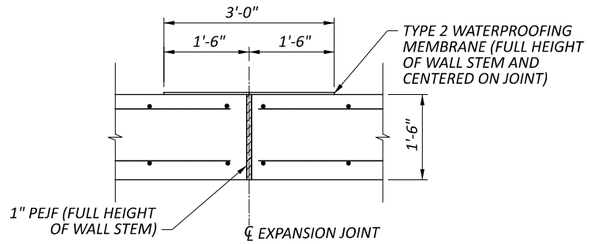




## GENERAL PLAN

*(DIMENSIONS ARE MEASURED RADIALLY OR ALONG FRONT FACE OF WALL)*




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL

## LEGEND:

(C) - CONTRACTION JOINT

(E) - EXPANSION JOINT

## NOTES:

1. FOR WALL ELEVATIONS SEE SHEETS 5/10 THRU 8/10.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 9/10.

# FOUNDATION LAYOUT
# RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 4 | TOTAL: 10

SHEET: P.886 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:29 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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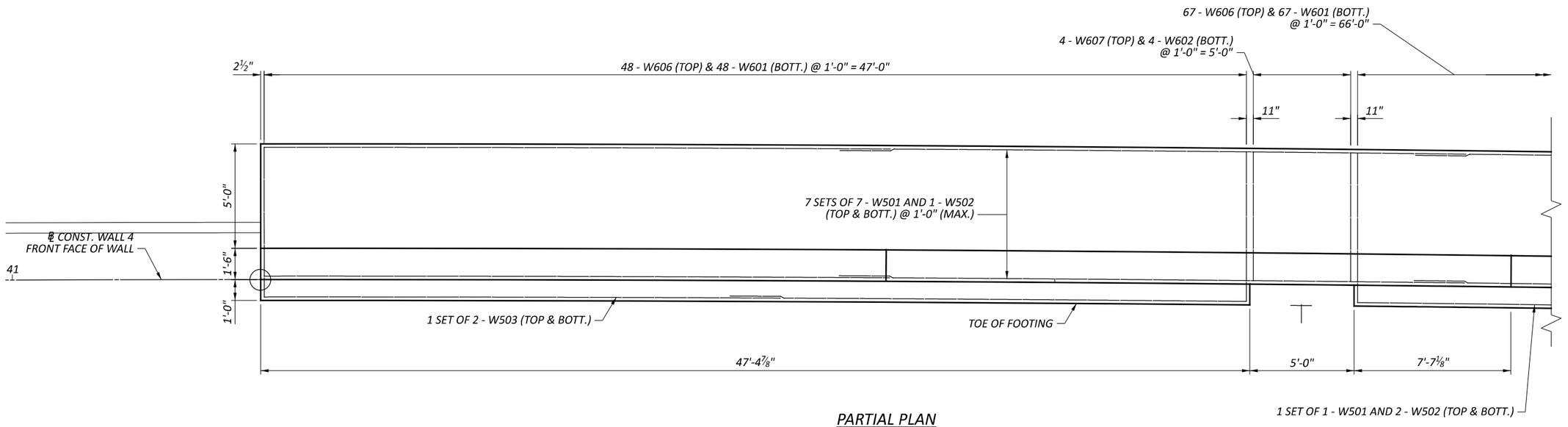
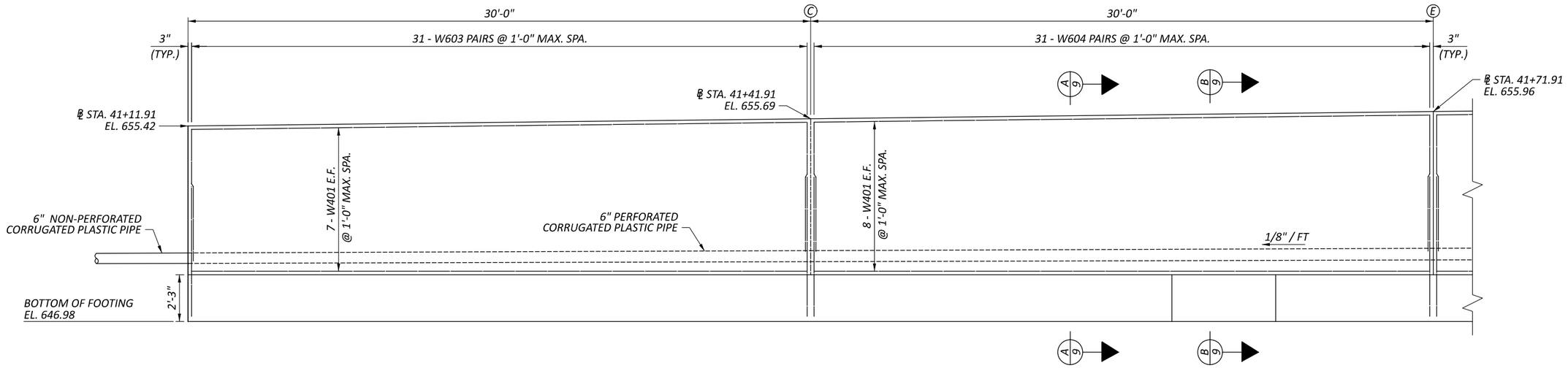



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

**LEGEND:**

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

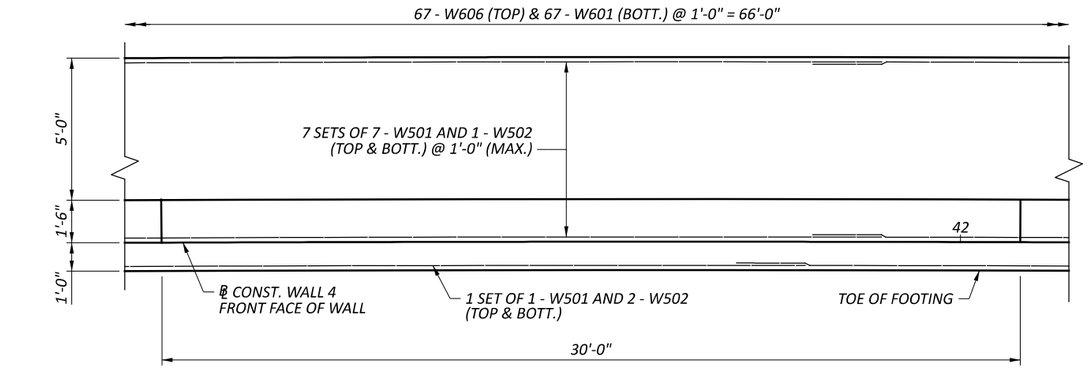
**NOTES:**

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A AND SECTION B-B SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

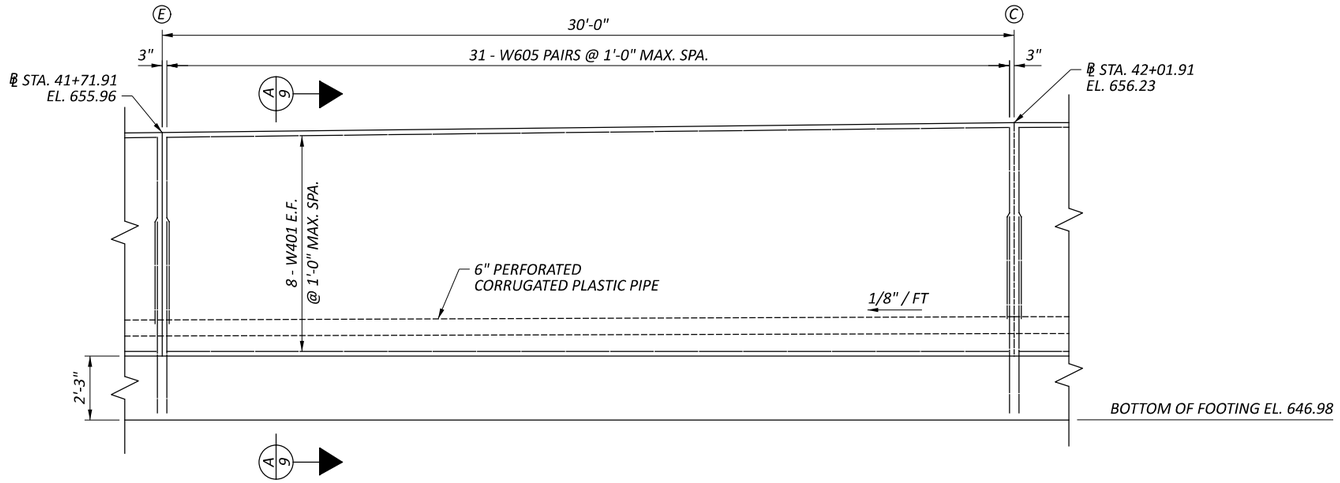
# WALL ELEVATION AND REINFORCEMENT
# RETAINING WALL 4

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 5 / 10 |
| SHEET / TOTAL | P.887 / P.1135 |




*PARTIAL PLAN*




*PARTIAL ELEVATION*

| *MINIMUM LAP LENGTHS* | |
|---|---|
| *NO. 5 BAR* | *3'-1"* |
| *NO. 6 BAR* | *3'-7"* |

## *LEGEND:*

Ⓒ - *CONTRACTION JOINT*

Ⓔ - *EXPANSION JOINT*

## *NOTES:*

1. *ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.*
2. *FOR FOUNDATION LAYOUT, SEE SHEET 4/10.*
3. *FOR SECTION A-A SEE SHEET 9/10.*
4. *FOR REINFORCING STEEL LIST, SEE SHEET 10/10.*

# WALL ELEVATION AND REINFORCEMENT
# RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 6 | TOTAL: 10

SHEET: P.888 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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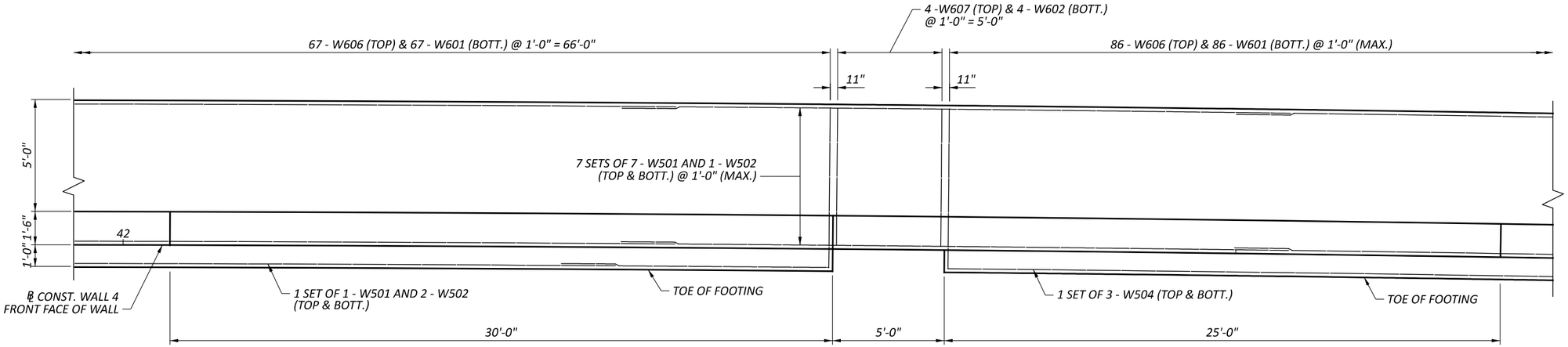
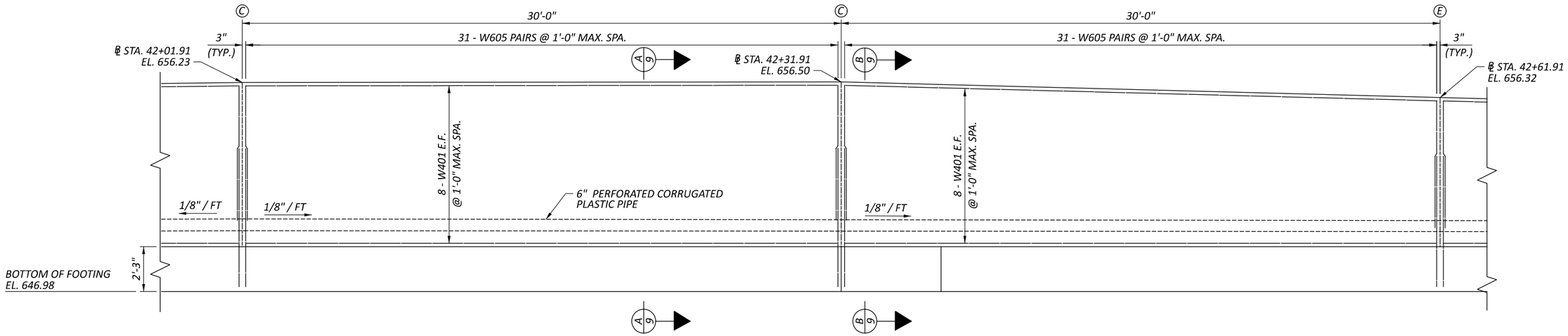



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

**LEGEND:**

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

**NOTES:**

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A AND SECTION B-B SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

# WALL ELEVATION AND REINFORCEMENT
# RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 7 | TOTAL: 10

SHEET: P.889 | TOTAL: P.1135

MODEL: Sheet 8 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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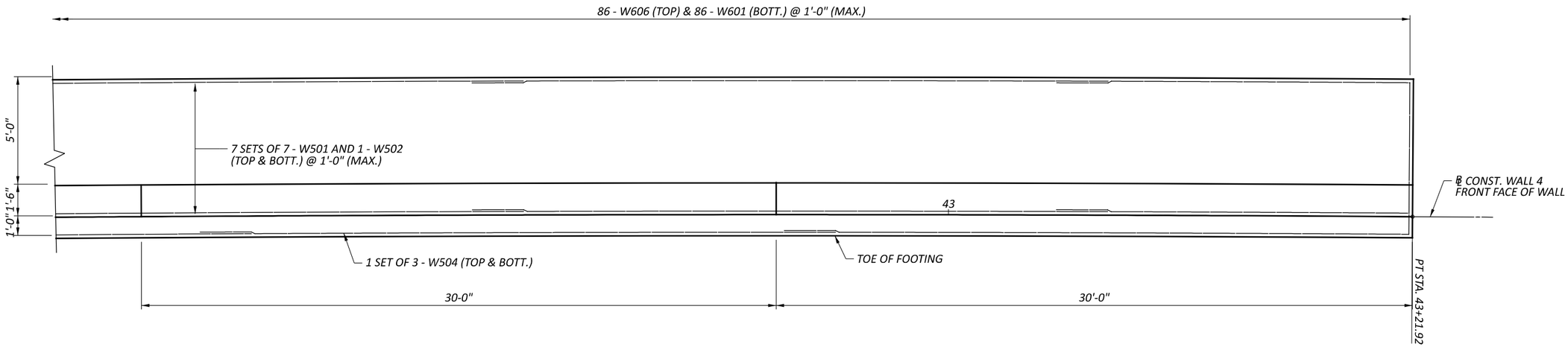
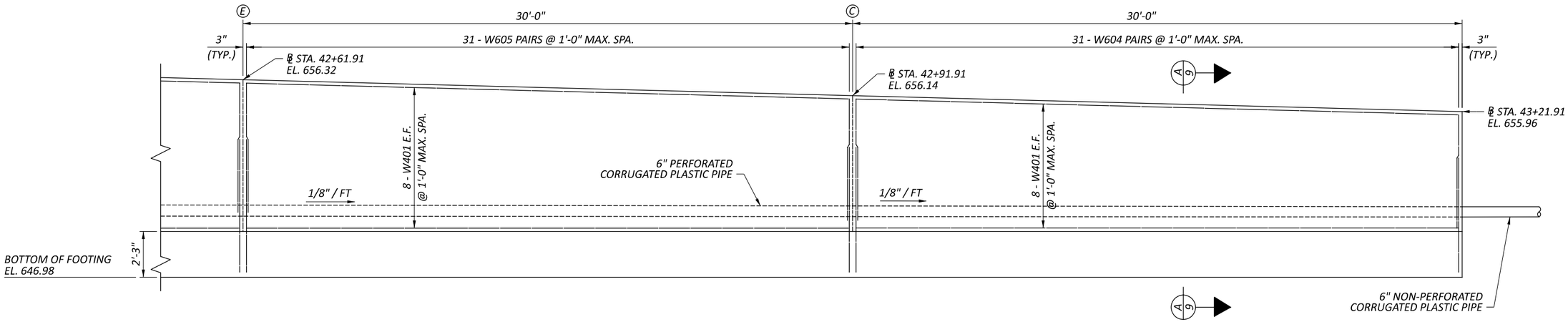



PARTIAL PLAN




PARTIAL ELEVATION

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 6 BAR | 3'-7" |

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

# WALL ELEVATION AND REINFORCEMENT
# RETAINING WALL 4

DESIGN AGENCY
TRC

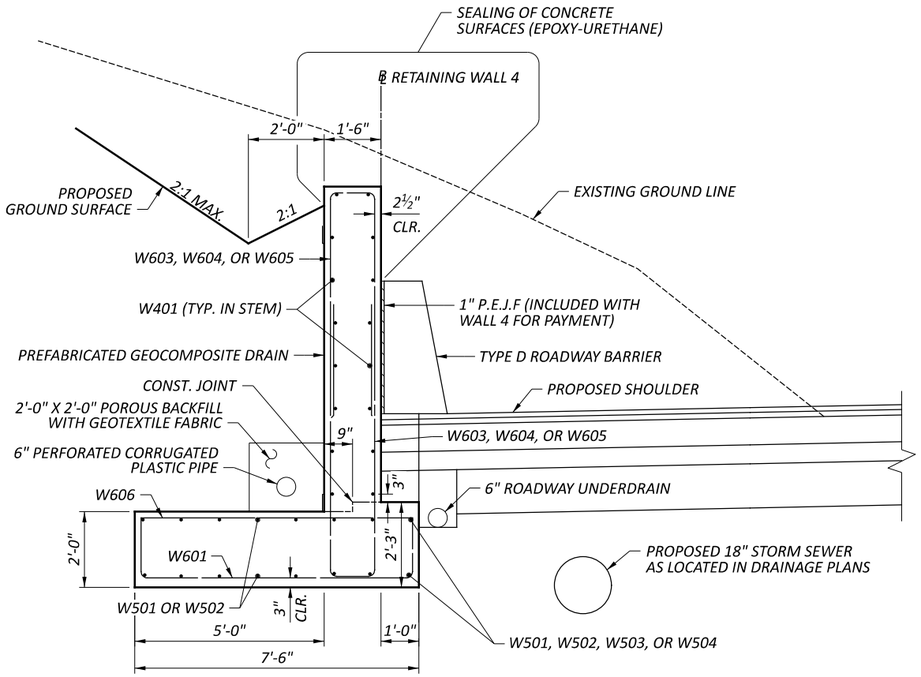
DESIGNER
JCP

REVIEWER
CJW 11/17/25

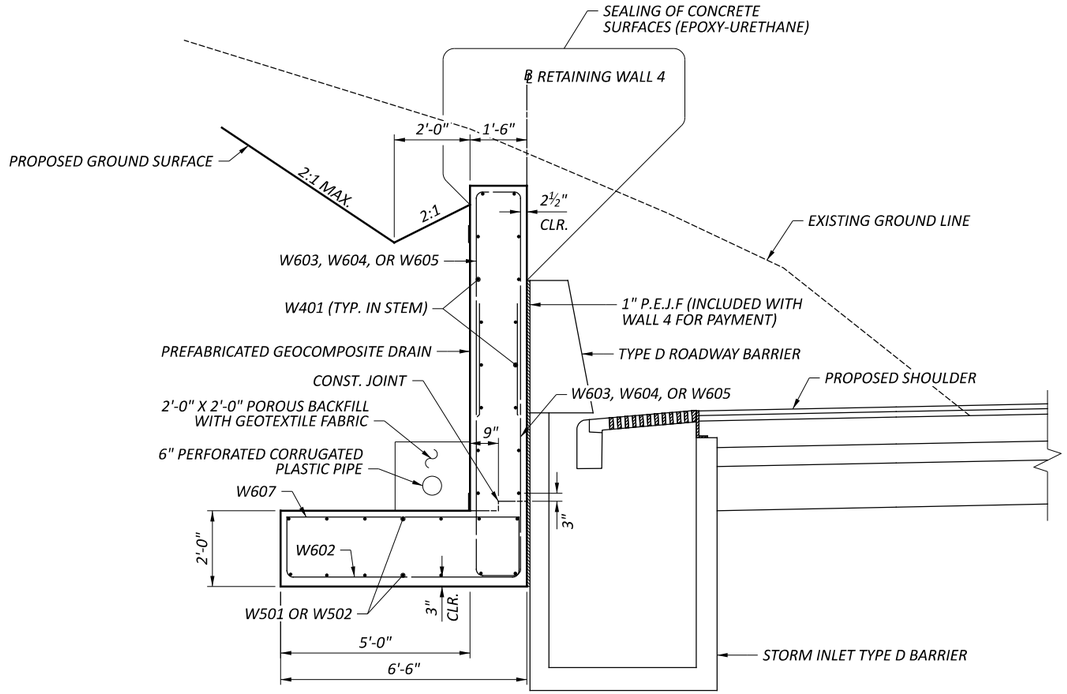
PROJECT ID
105743

SUBSET | TOTAL
8 | 10

SHEET | TOTAL
P.890 | P.1135




SECTION A-A




SECTION B-B

## NOTES:

1. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
2. FOR WALL ELEVATIONS, SEE SHEETS 5/10 THRU 8/10.
3. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.
4. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.
5. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

# WALL DETAILS
# RETAINING WALL 4

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 9 / 10 |
| SHEET / TOTAL | P.891 / P.1135 |

CUY-77-11.41 - PART 1

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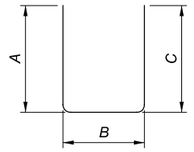
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| W401 | 110 | 29'-8" | 2180 | STR | | | | | | | |
| | | | | | | | | | | | |
| W501 | 100 | 30'-0" | 3129 | STR | | | | | | | |
| W502 | 18 | 21'-7" | 405 | STR | | | | | | | |
| W503 | 4 | 25'-1" | 105 | STR | | | | | | | |
| W504 | 6 | 30'-3" | 189 | STR | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| W601 | 201 | 10'-0" | 3019 | 2 | 1'-7" | 7'-2" | 1'-7" | | | | |
| W602 | 8 | 9'-0" | 108 | 2 | 1'-7" | 6'-2" | 1'-7" | | | | |
| W603 | 62 | 12'-9½" | 1191 | 2 | 6'-0" | 1'-1½" | 6'-0" | | | | |
| W604 | 124 | 13'-1½" | 2445 | 2 | 6'-2" | 1'-1½" | 6'-2" | | | | |
| W605 | 248 | 13'-5½" | 5013 | 2 | 6'-4" | 1'-1½" | 6'-4" | | | | |
| W606 | 201 | 7'-2" | 2164 | STR | | | | | | | |
| W607 | 8 | 6'-2" | 74 | STR | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | TOTAL | 20,022 | | | | | | | | |




TYPE-2

## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 4

DESIGN AGENCY TRC

DESIGNER JCP

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 10 | TOTAL 10

SHEET P.892 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet 10 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:08:56 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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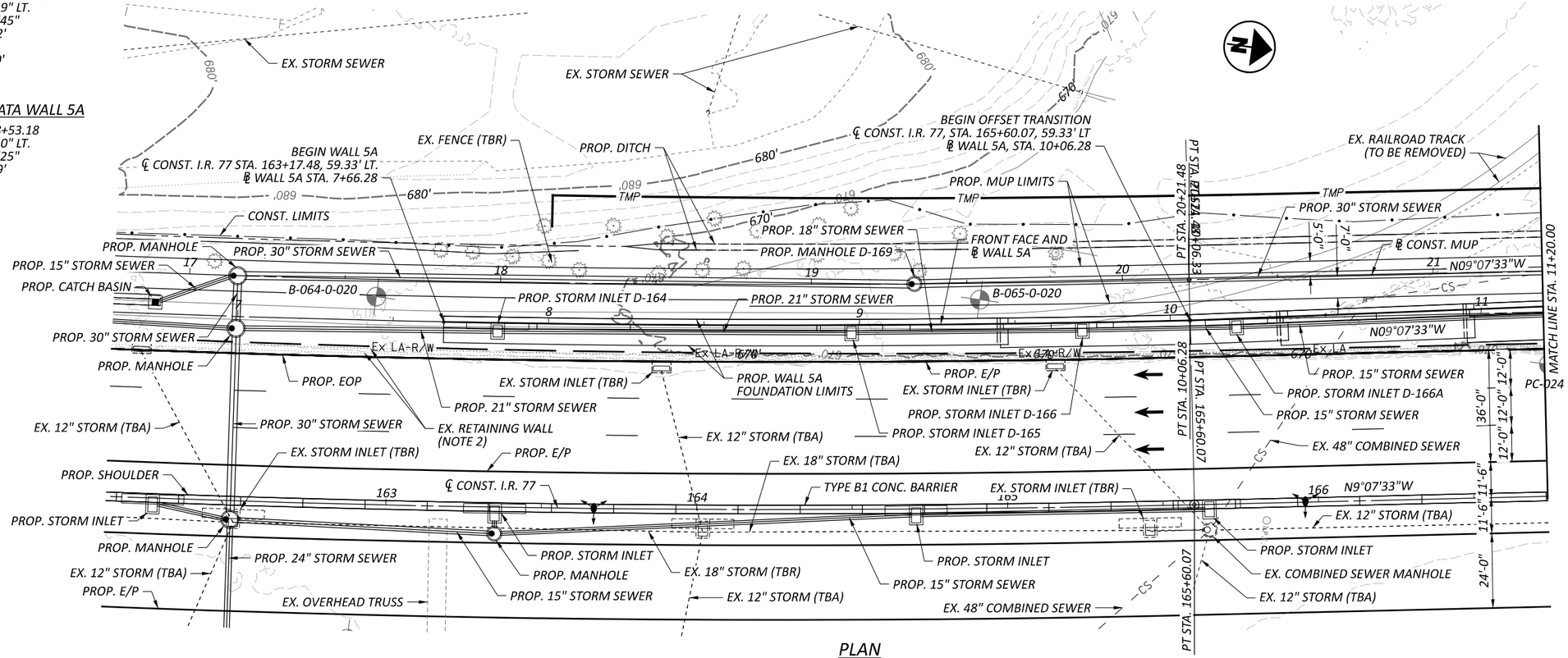
## CURVE DATA I.R.-77

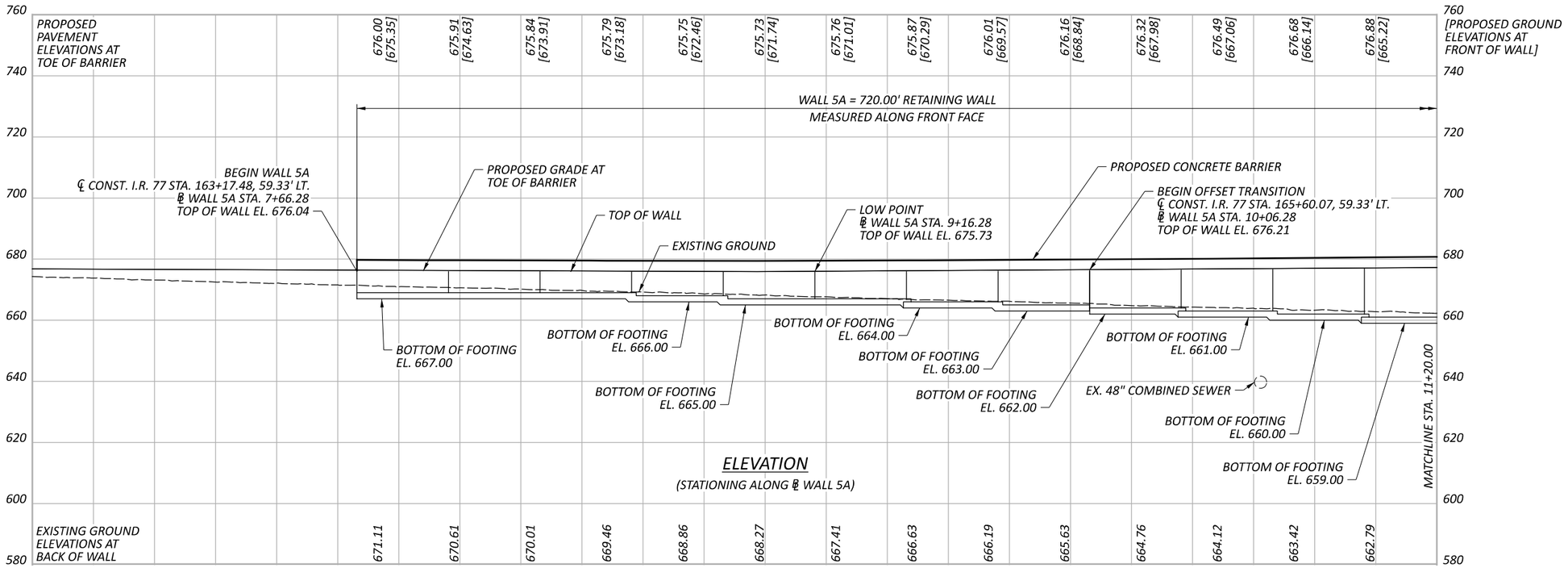
P.I. = STA. 159+82.97
Δ = 11°55'19" LT.
Dc = 01°01'45"
R = 5567.12'
T = 581.30'
L = 1158.40'
E = 30.27'

## CURVE DATA WALL 5A

P.I. = STA. 8+53.18
Δ = 03°11'10" LT.
Dc = 01°02'25"
R = 5507.79'
T = 153.18'
L = 306.28'
E = 2.13'




## PLAN




## ELEVATION

(STATIONING ALONG ℄ WALL 5A)

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

# SITE PLAN 1 OF 2
# RETAINING WALL 5A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 | TOTAL: 23
SHEET: P.893 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_2 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:09:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCExt02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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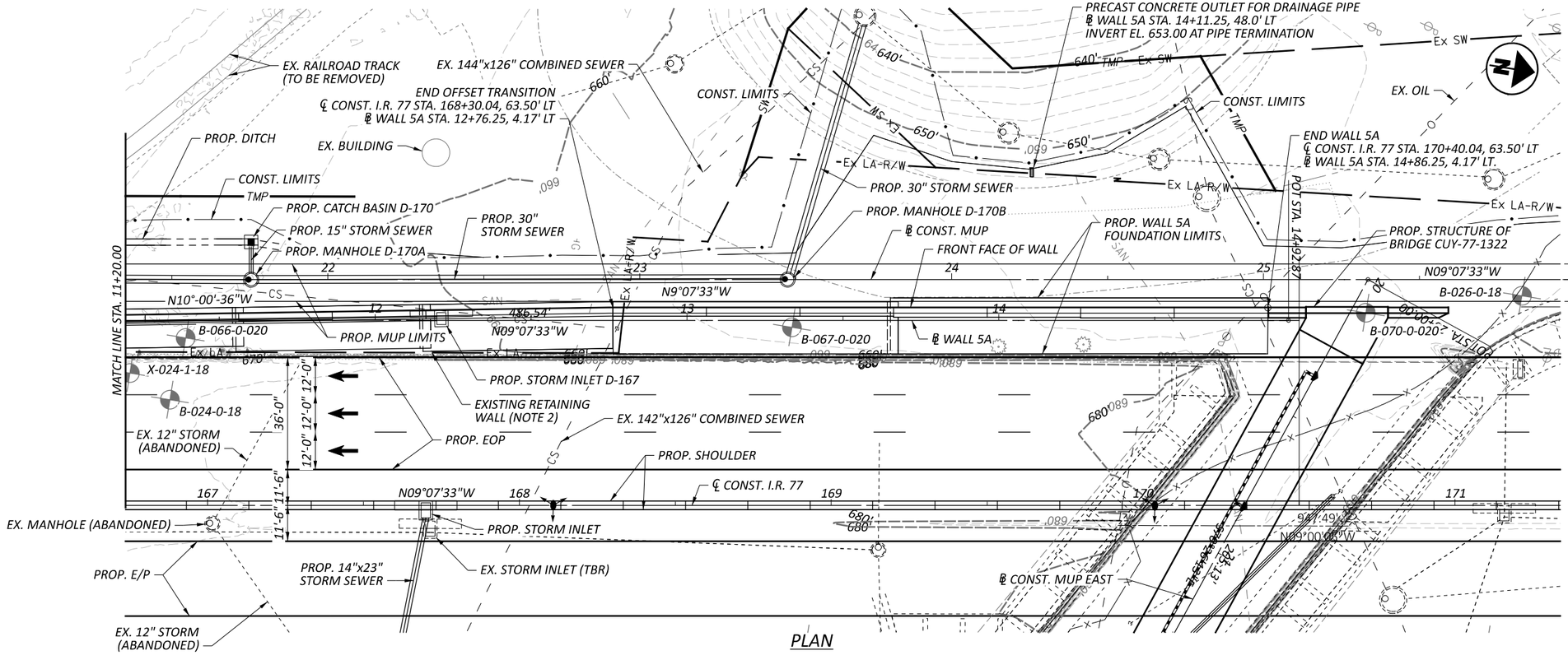


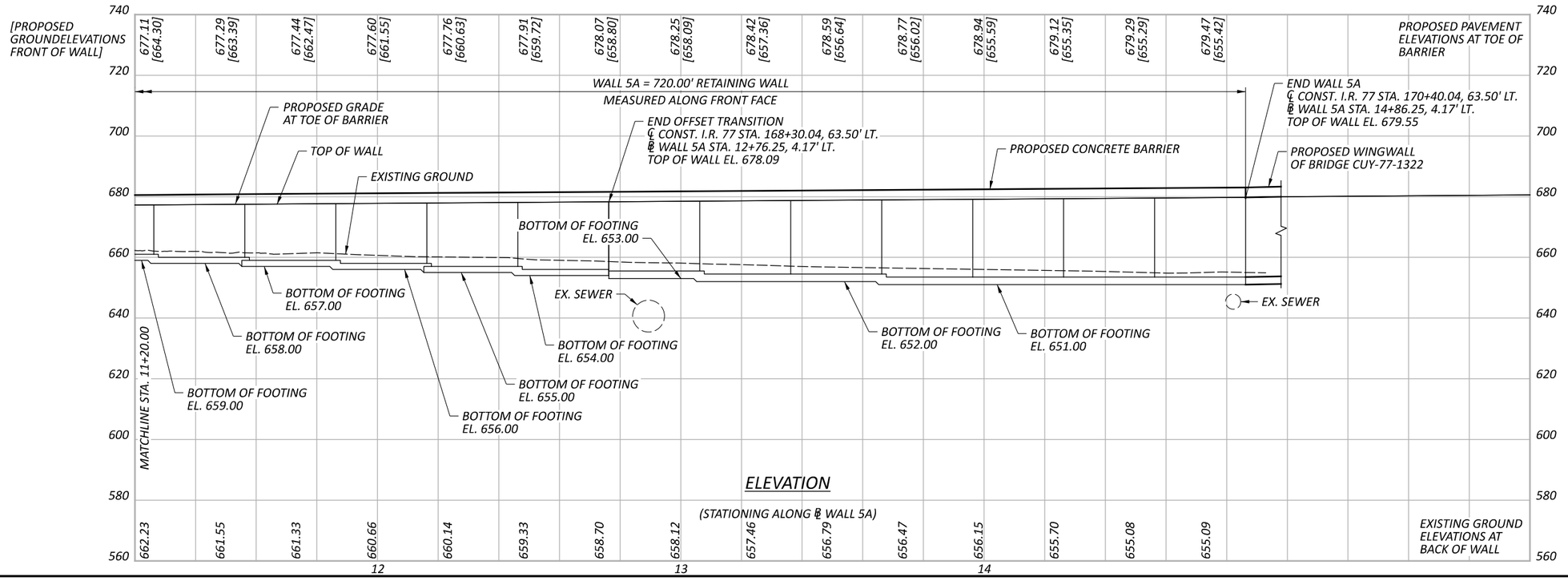

PLAN

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.




ELEVATION

(STATIONING ALONG ℄ WALL 5A)

CUY-77-11.41 - PART 1

MODEL: CLP_2 - Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:09:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WP001.dgn

SITE PLAN 2 OF 2
RETAINING WALL 5A

| | |
|---|---|
| DESIGN AGENCY | TRC |
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 2 |
| TOTAL | 23 |
| SHEET | P.894 |
| TOTAL | P.1135 |

## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWING:

| | |
|---|---|
| DM-1.1 | REVISED 7/17/20 |
| SBR-1-20 | REVISED 7/21/23 |
| VPF-1-90 | REVISED 7/21/23 |

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CONCRETE STEM AND FOOTING)

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (CONCRETE BARRIER ON WALL STEM)

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

## FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 2.62 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 3.54 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 10.00 KIPS PER SQUARE FOOT.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 511 - CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON WALL STEM

VERTICAL SAWCUTS SHALL BE PERFORMED IN THE CONCRETE BARRIER AT ALL CONTRACTION JOINTS IN THE WALL STEM. SAWCUTS SHALL CONFORM TO THE DETAILS AND SPECIFICATIONS IN STANDARD DRAWING SBR-1-20. LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE BARRIER CONCRETE.

## DRAINAGE PIPE OUTLETS:

VERTICAL PRECAST CONCRETE OUTLET WITH TYPE 1 TIED CONCRETE BLOCK MAT SHALL BE INSTALLED AT EACH LOCATION OF DRAIN PIPE TERMINATION SPECIFIED IN THE PLANS. THE OUTLET INSTALLATION AND MATERIALS FURNISHED SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING DM-1.1 AND THE REQUIREMENTS OF CMS 611.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 5A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 3 / 23 |
| SHEET / TOTAL | P.895 / P.1135 |

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (WALL 5A)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| 202 | 11201 | LS | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 5, 6 |
| 203 | 35120 | | CY | GRANULAR MATERIAL, TYPE C | |
| 503 | 21100 | | CY | UNCLASSIFIED EXCAVATION | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING | 21 |
| 511 | 46512 | | CY | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | |
| 511 | 53012 | | CY | CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON WALL STEM | 3 |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 3 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |
| 601 | 21050 | | SY | TIED CONCRETE BLOCK MAT, TYPE 1 | |
| 607 | 39900 | | FT | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC | |
| 611 | 99710 | | EACH | PRECAST REINFORCED CONCRETE OUTLET | |

ESTIMATED QUANTITIES
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 23

SHEET P.896 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:09:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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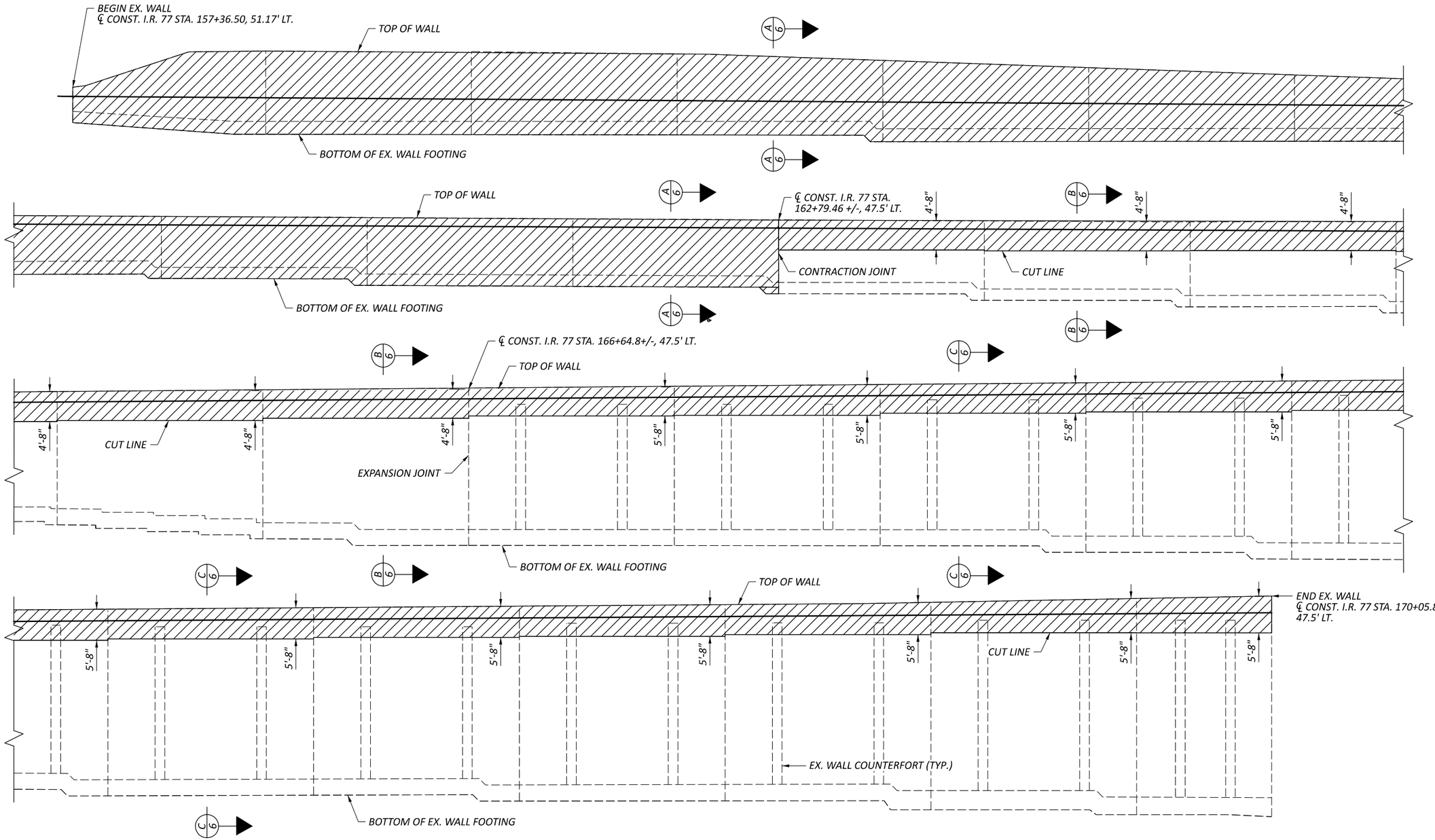


## LEGEND:

PORTION OF EX. WALL TO BE REMOVED

## NOTE:

1. OFFSET IS GIVEN TO FRONT FACE OF EXISTING WALL.
2. OPERATIONS TO REMOVE PORTIONS OF EXISTING RETAINING WALL SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

## EXISTING WALL ELEVATIONS

(LOOKING AT BACK FACE OF WALL)

# REMOVAL DETAILS
# RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 5 | TOTAL: 23

SHEET: P.897 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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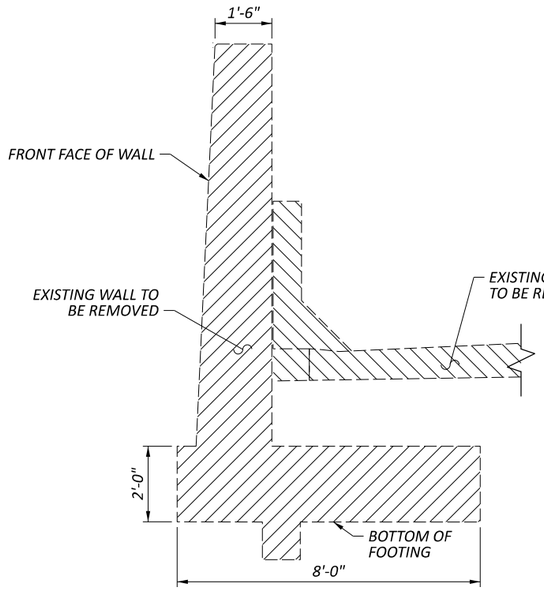
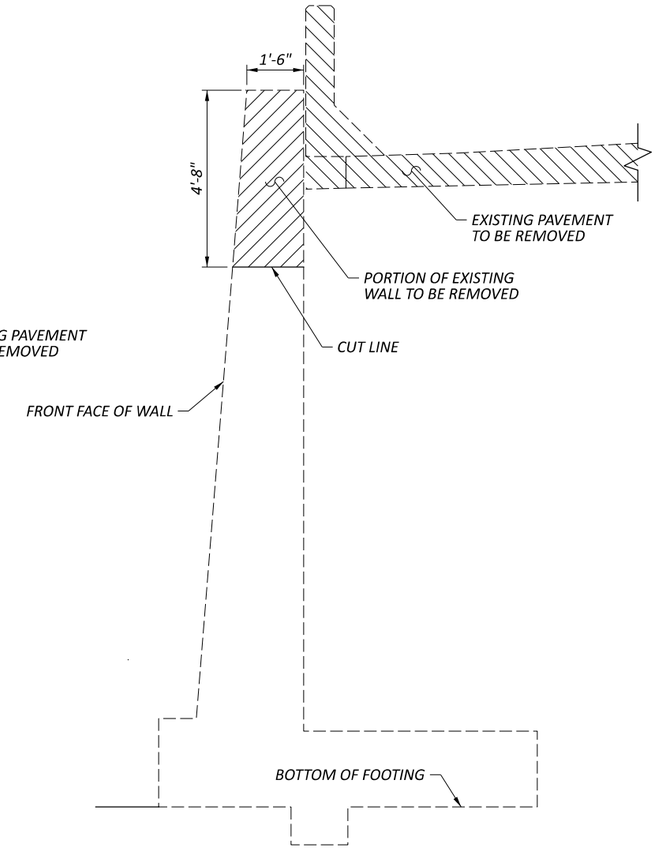


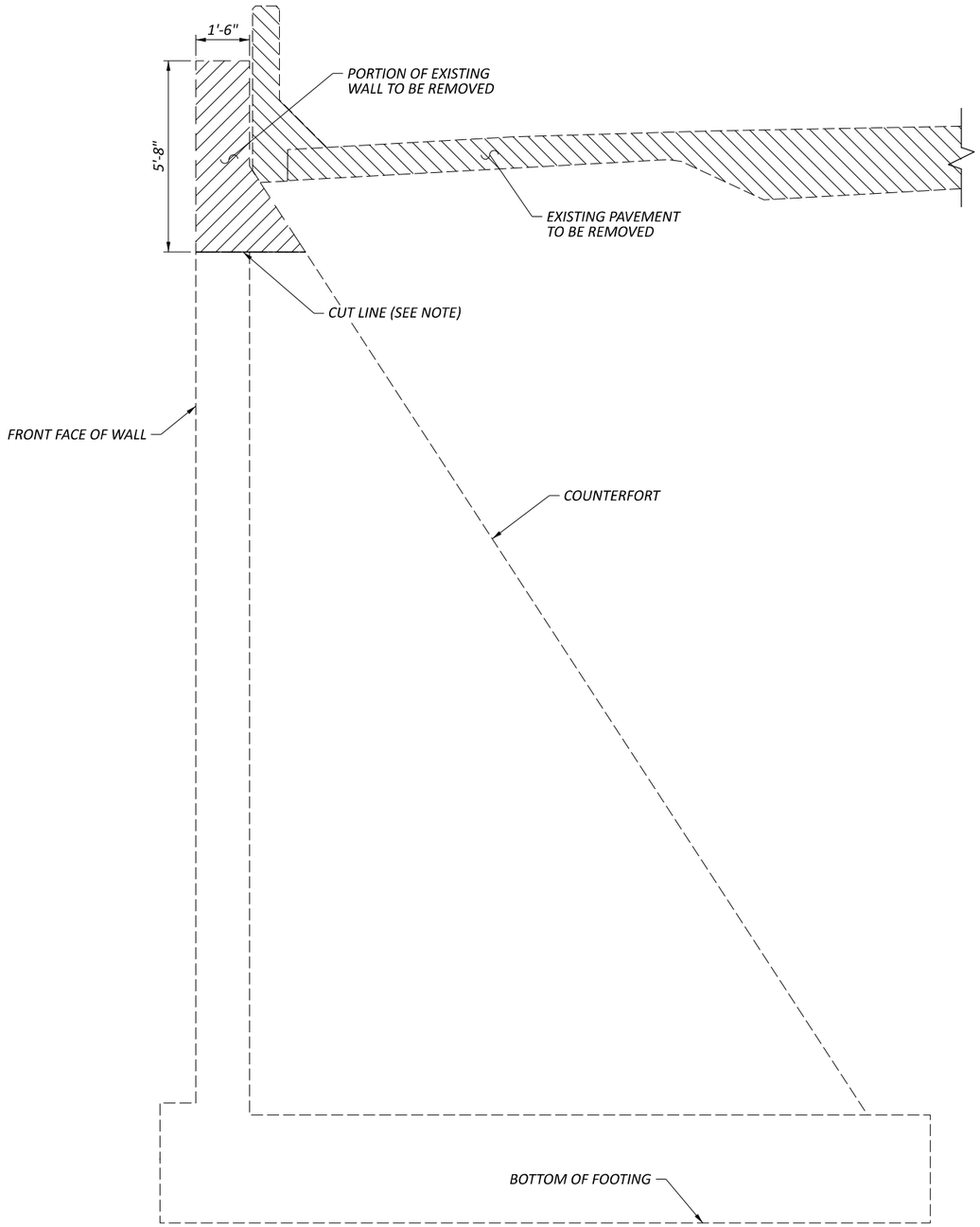

SECTION A-A

(TYPICAL FROM STA. 157+36.5 TO 162+79.46)




SECTION B-B

(TYPICAL FROM STA. 162+79.46 TO 166+64.80)




SECTION C-C

(TYPICAL FROM STA. 166+64.80 TO 170+05.80)

## LEGEND:

PORTIONS OF EXISTING WALL TO BE REMOVED

PORTIONS OF EXISTING I.R. 77 ROADWAY AND BARRIER TO BE REMOVED

## NOTE:

1. REMOVAL CUTS SHALL NOT BE PERFORMED ON THE EXISTING WINGWALL STEM AND COUNTERFORTS UNTIL BACKFILL HAS BEEN PLACED AND COMPACTED BETWEEN THE EXISTING RETAINING WALL AND THE PROPOSED WAL IN FRONT OF IT UP TO AN ELEVATION WITHIN 2 FEET OF THE CUT LINE.

# REMOVAL DETAILS RETAINING WALL 5A

CUY-77-11.41 - PART 1

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DESIGN AGENCY

TRC

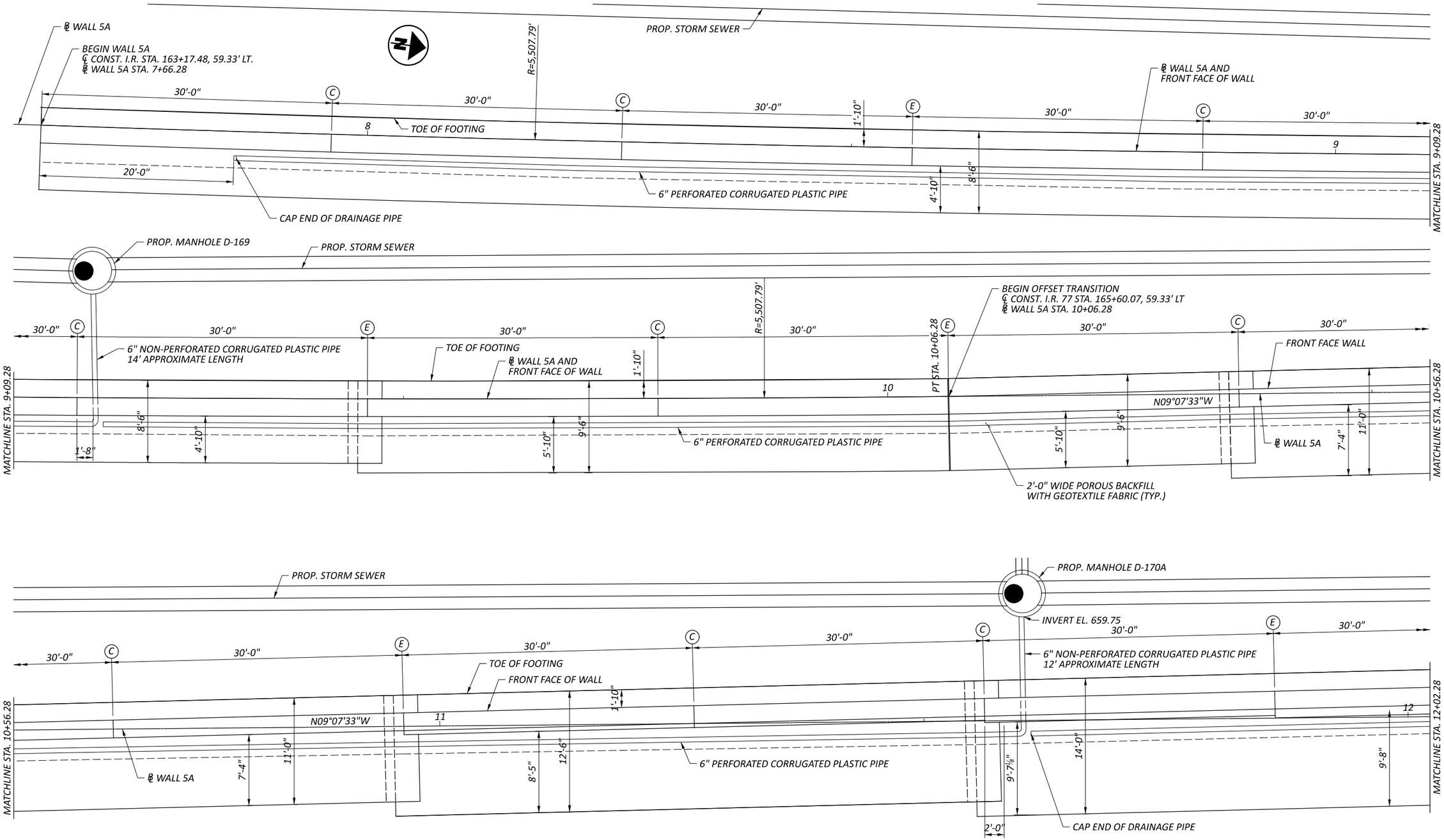
DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 6 | TOTAL 23

SHEET P.898 | TOTAL P.1135




## LEGEND:

(C) - CONTRACTION JOINT

(E) - EXPANSION JOINT

## PARTIAL GENERAL PLAN

*(DIMENSIONS ARE MEASURED ALONG OR PERPENDICULAR TO FRONT FACE OF WALL)*

## NOTES:

1. FOR WALL ELEVATIONS SEE SHEETS 9/23 THRU 20/23.
2. FOR TYPICAL SECTION, SEE SHEETS 22/23.

# FOUNDATION LAYOUT AND DRAINAGE DETAILS
# RETAINING WALL 5A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 23 |
| SHEET / TOTAL | P.899 / P.1135 |

CUY-77-11.41 - PART 1

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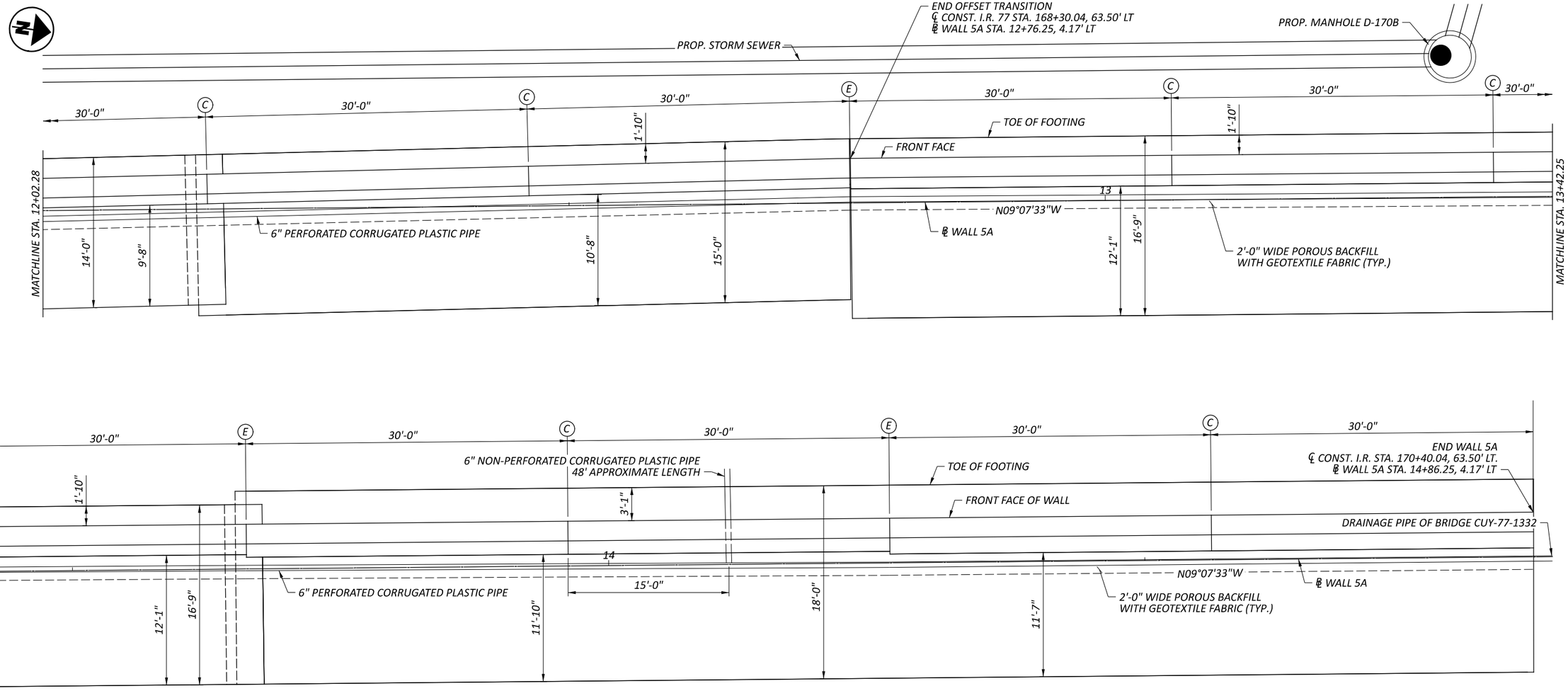
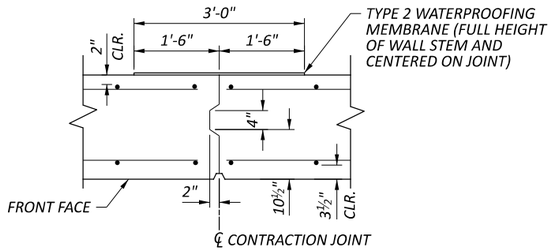
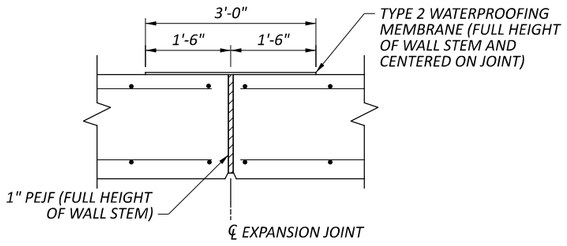



## PARTIAL GENERAL PLAN

*(DIMENSIONS ARE MEASURED ALONG OR PERPENDICULAR TO FRONT FACE OF WALL)*




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL

**LEGEND:**

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

**NOTES:**

1. FOR WALL ELEVATIONS SEE SHEETS 9/23 THRU 20/23.
2. FOR TYPICAL SECTION, SEE SHEETS 22/23.

# FOUNDATION LAYOUT AND DRAINAGE DETAILS
# RETAINING WALL 5A

CUY-77-11.41 - PART 1

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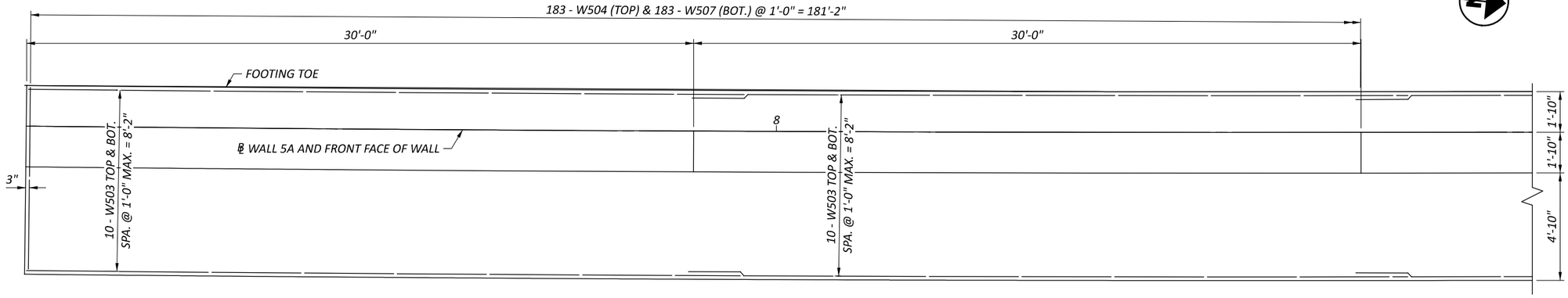
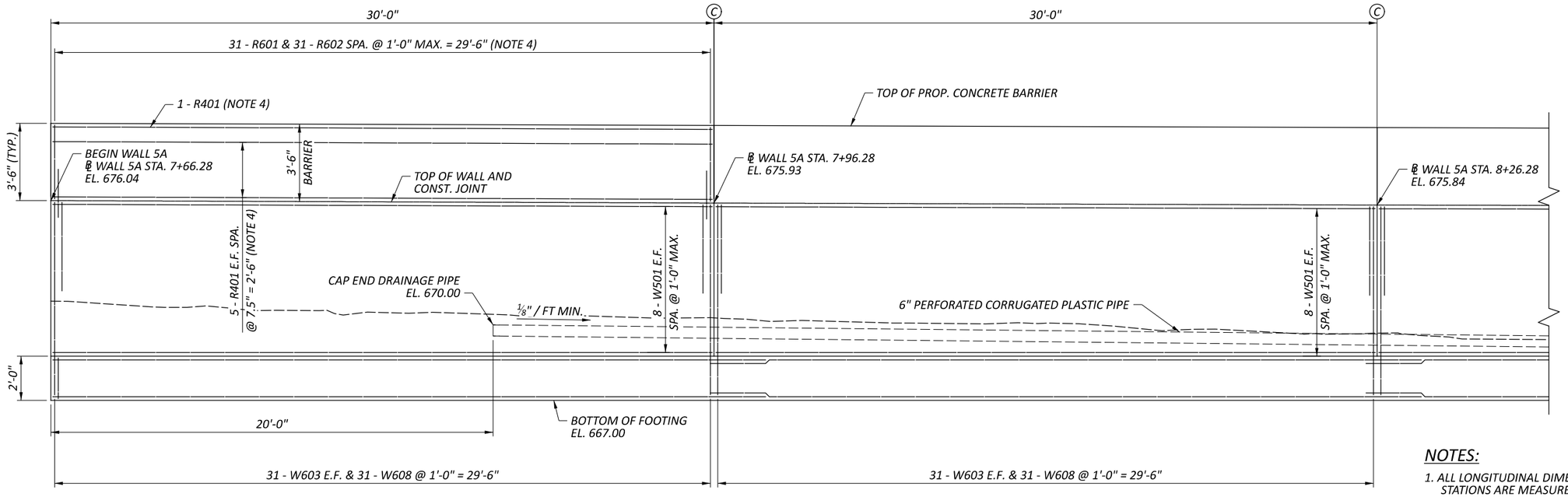
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 23 |
| SHEET / TOTAL | P.900 / P.1135 |




## PARTIAL PLAN




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 5 BAR | 3'-1" |
| NO. 8 BAR | 4'-9" |
| NO. 9 BAR | 5'-10" |
| NO. 10 BAR | 7'-2" |

## LEGEND:

- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR TYPICAL SECTIONS, SEE SHEET 22/23.
3. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
4. REINFORCING STEEL IN THE BARRIER IS TYPICAL FOR ALL WALL UNITS.
5. FOR FOUNDATION LAYOUT, SEE SHEETS 7/23 AND 8/23.
6. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 9 | TOTAL: 23

SHEET: P.901 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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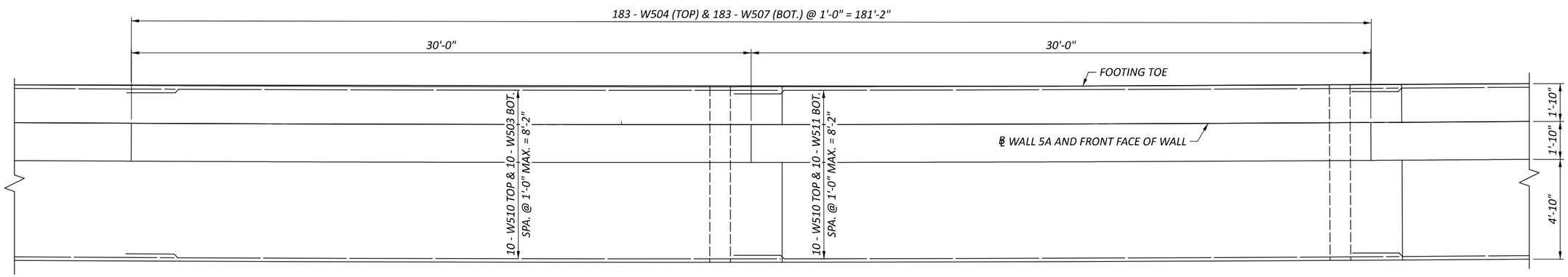
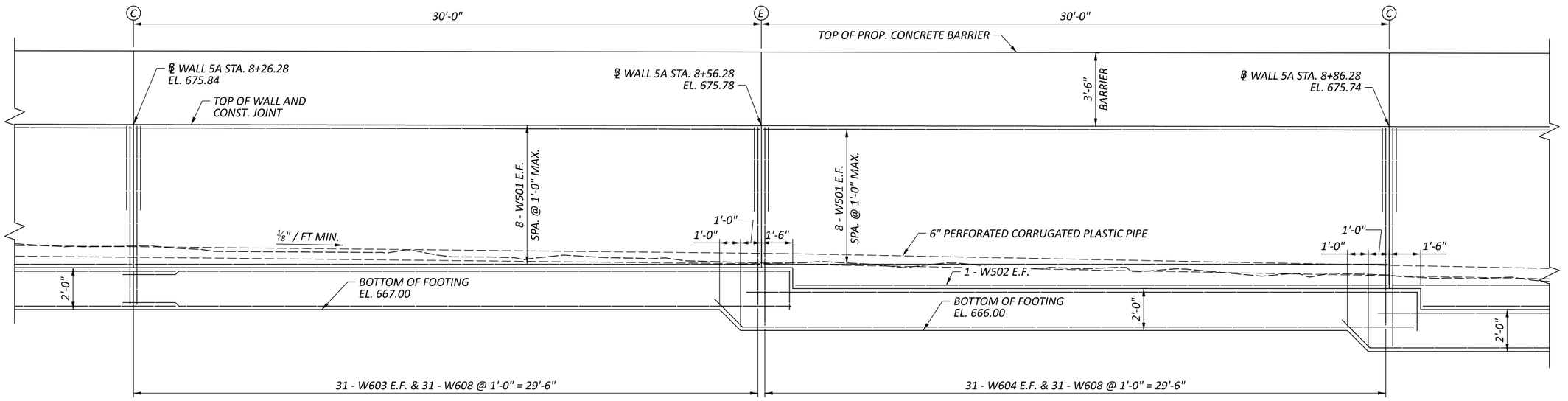



## PARTIAL PLAN




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

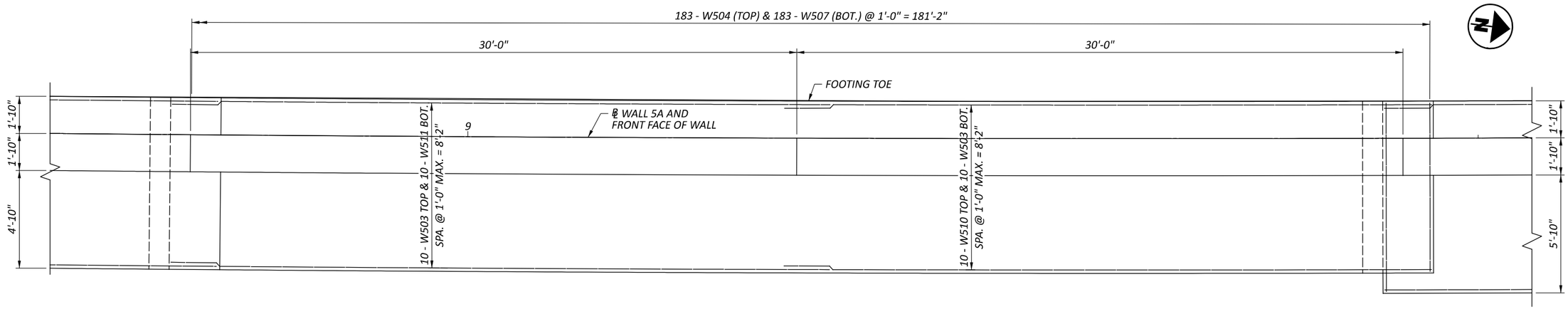
### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

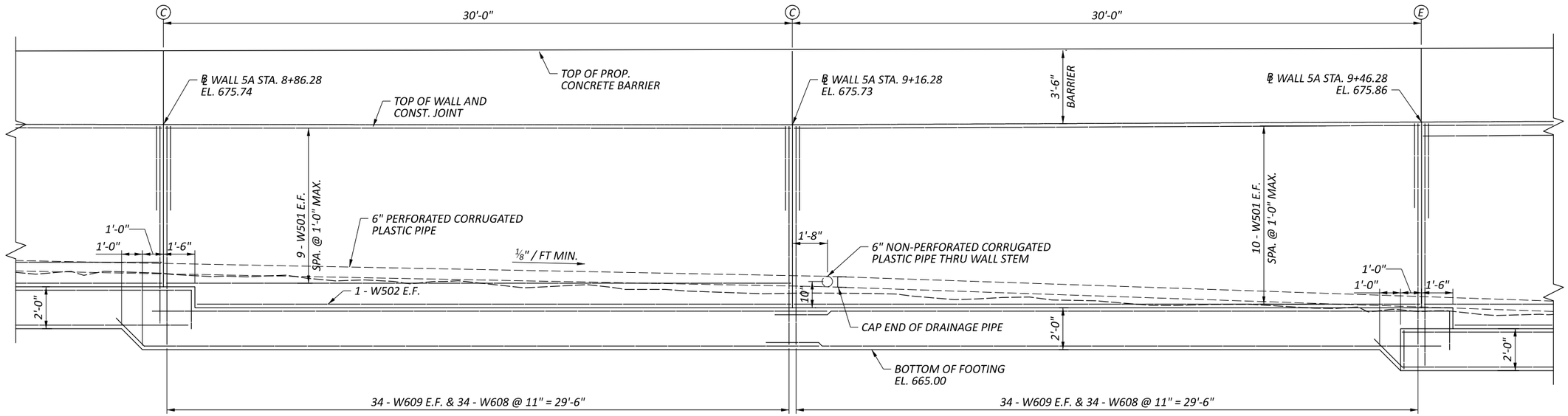
# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 10 / 23 |
| SHEET / TOTAL | P.902 / P.1135 |




## PARTIAL PLAN




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 11 | TOTAL: 23

SHEET: P.903 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: panels 5-6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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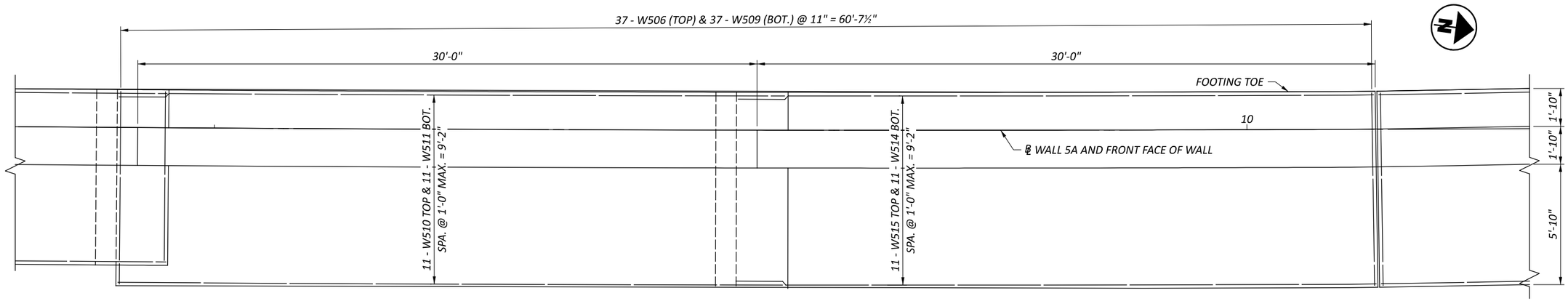
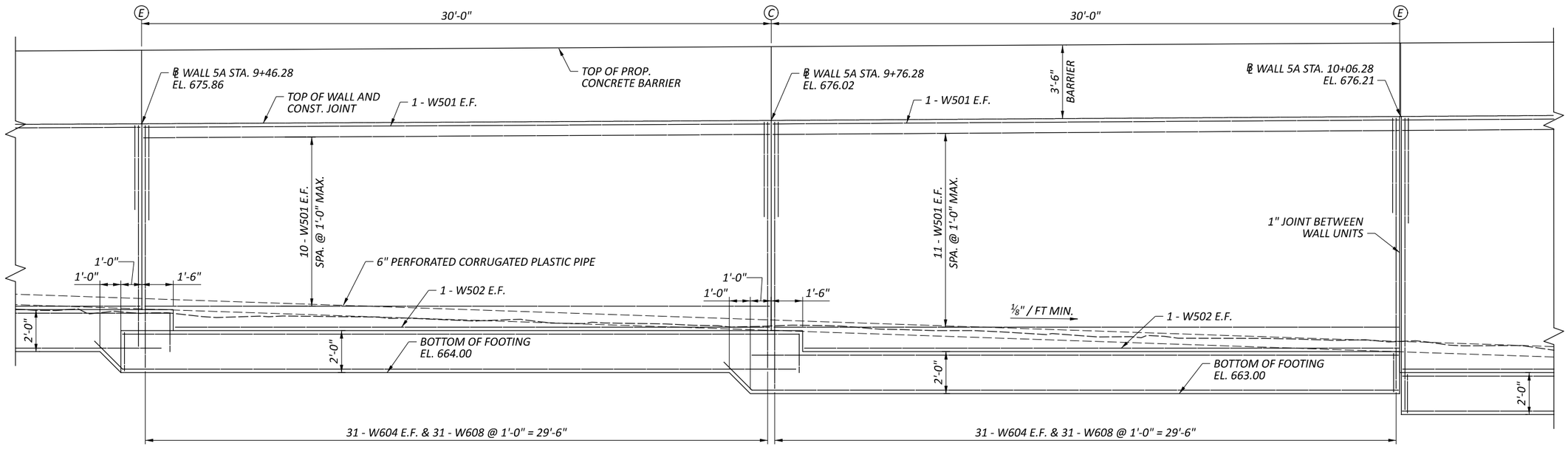



## PARTIAL PLAN




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 12 / 23 |
| SHEET / TOTAL | P.904 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: up 7-8 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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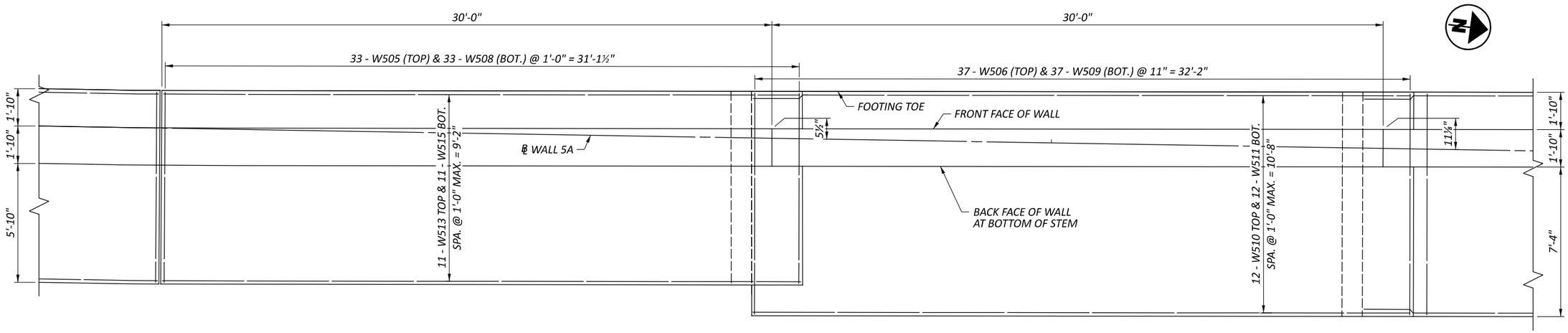
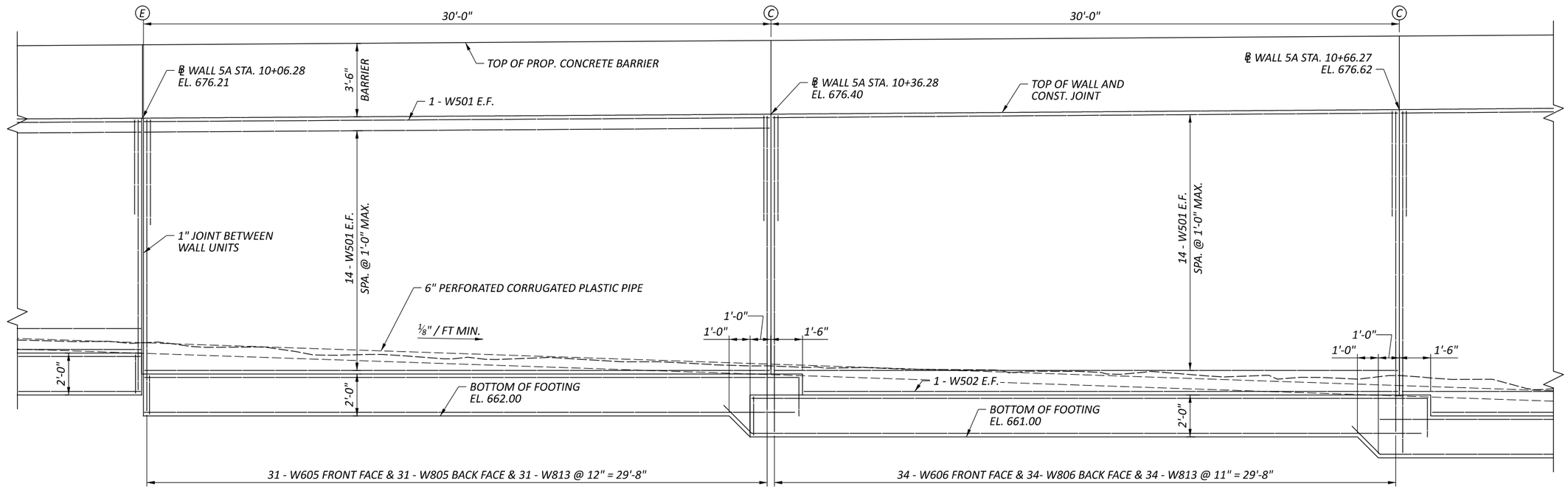



## PARTIAL PLAN




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 13 |
| TOTAL | 23 |
| SHEET | P.905 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: up 9-10 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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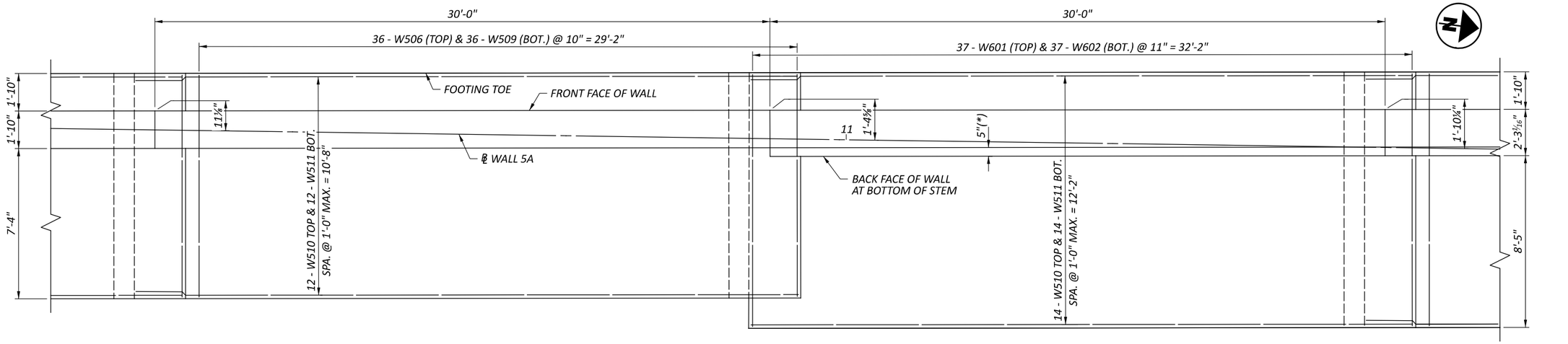
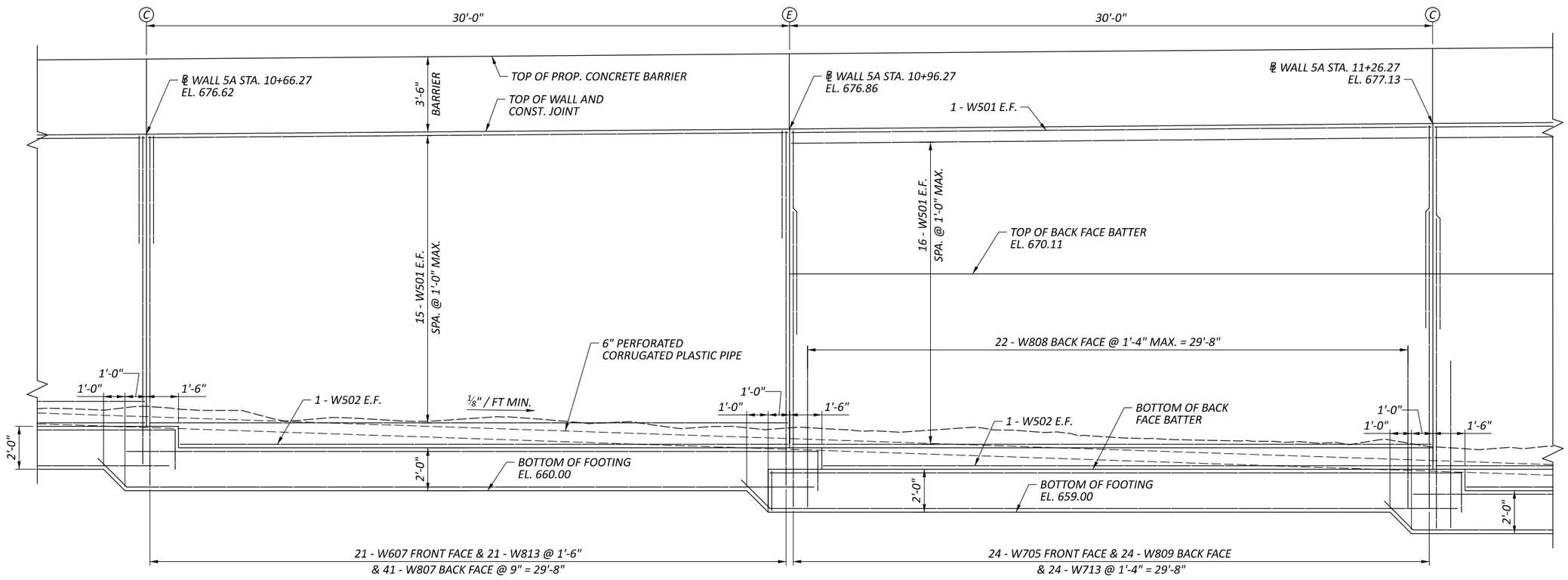



(*) - BACK FACE BATTER

## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 14 |
| TOTAL | 23 |
| SHEET | P.906 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: up 11-12 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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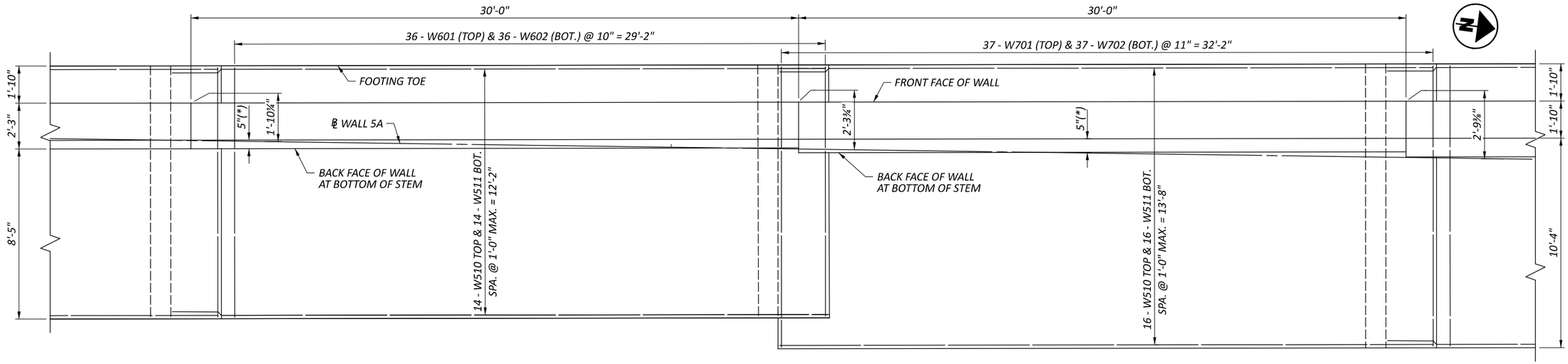
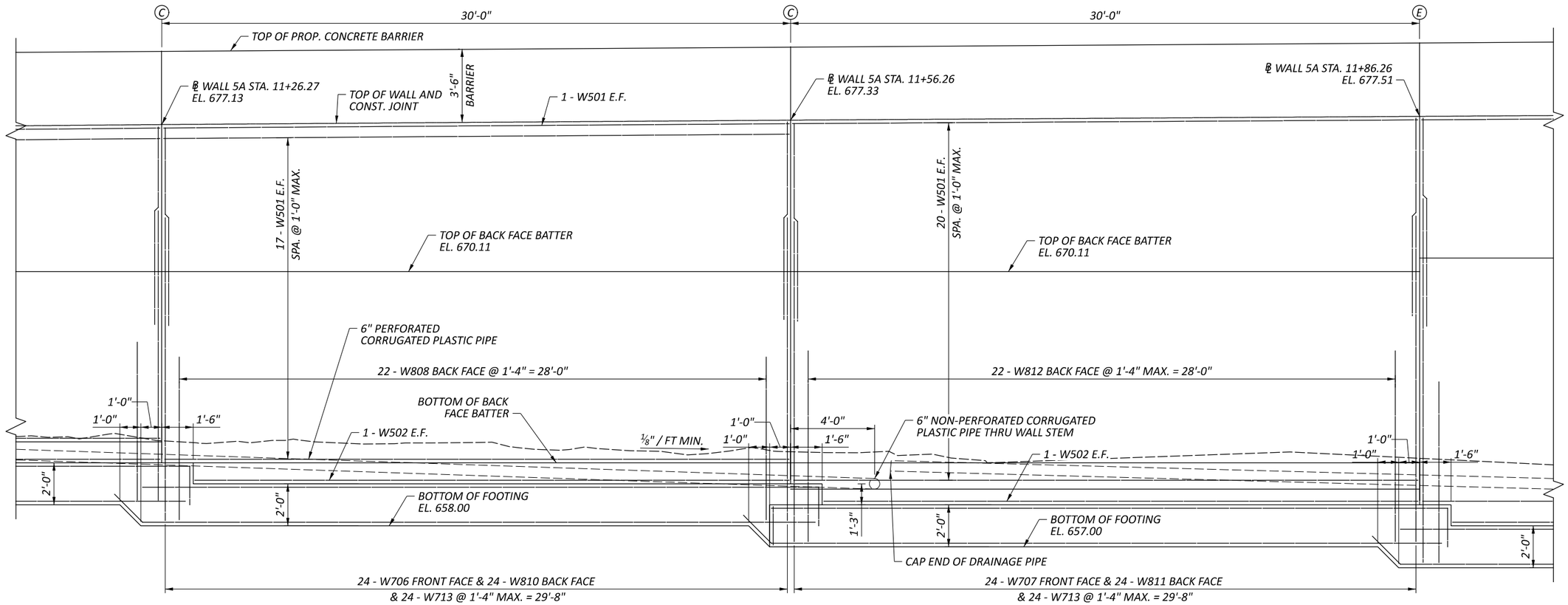



## PARTIAL PLAN

(*) - BACK FACE BATTER




## PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT

# WALL PLAN AND ELEVATION RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: up 13-14 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCExD2 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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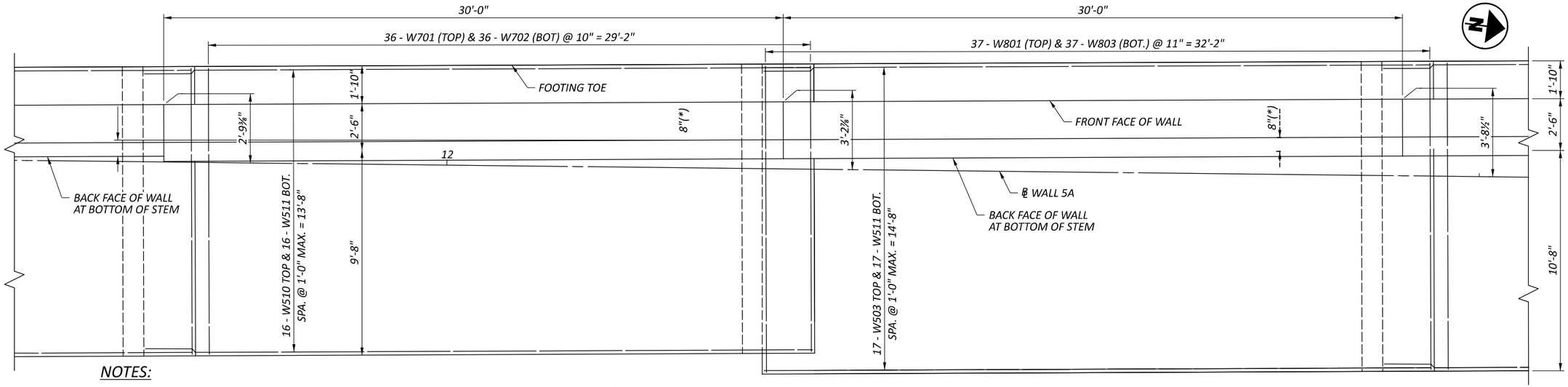
DESIGN AGENCY TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 15 / 23 |
| SHEET / TOTAL | P.907 / P.1135 |

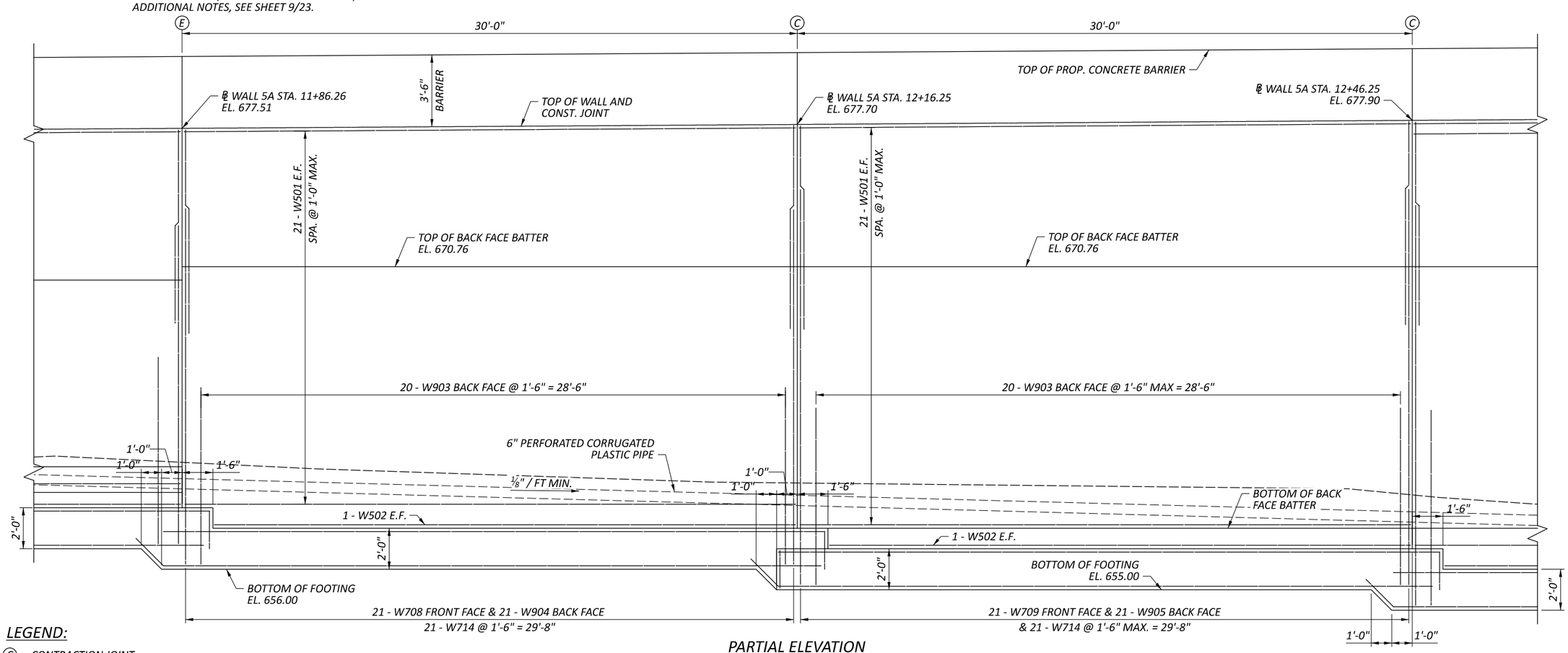



## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## PARTIAL PLAN

(*) - BACK FACE BATTER




## LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT

## PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 16 / 23 |
| SHEET / TOTAL | P.908 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: up 15-16 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: up 17-18 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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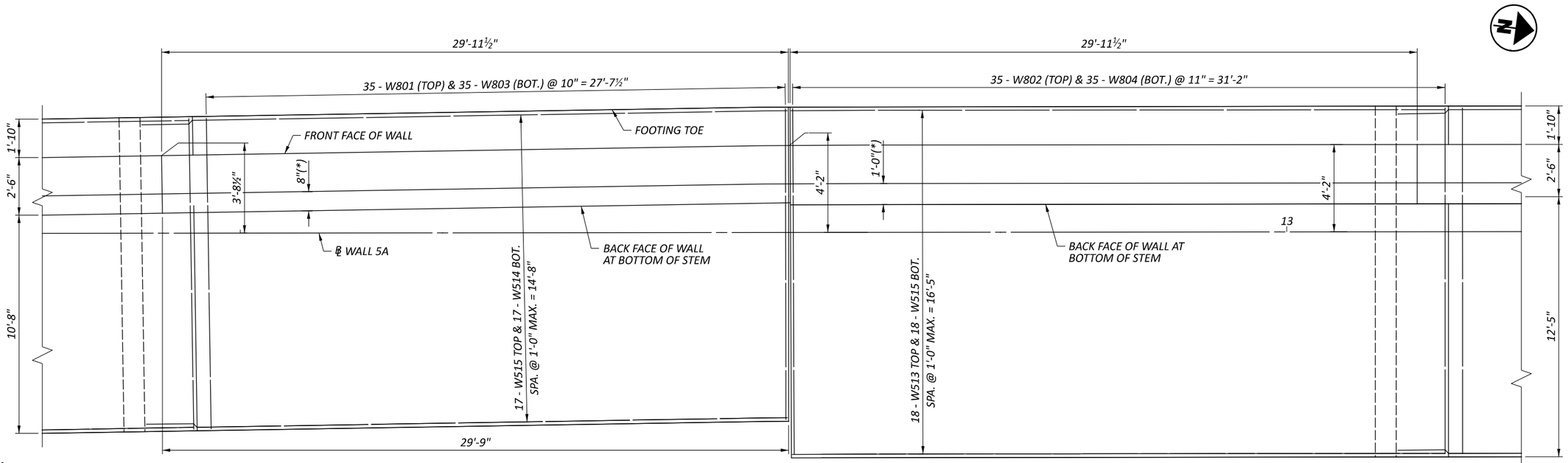
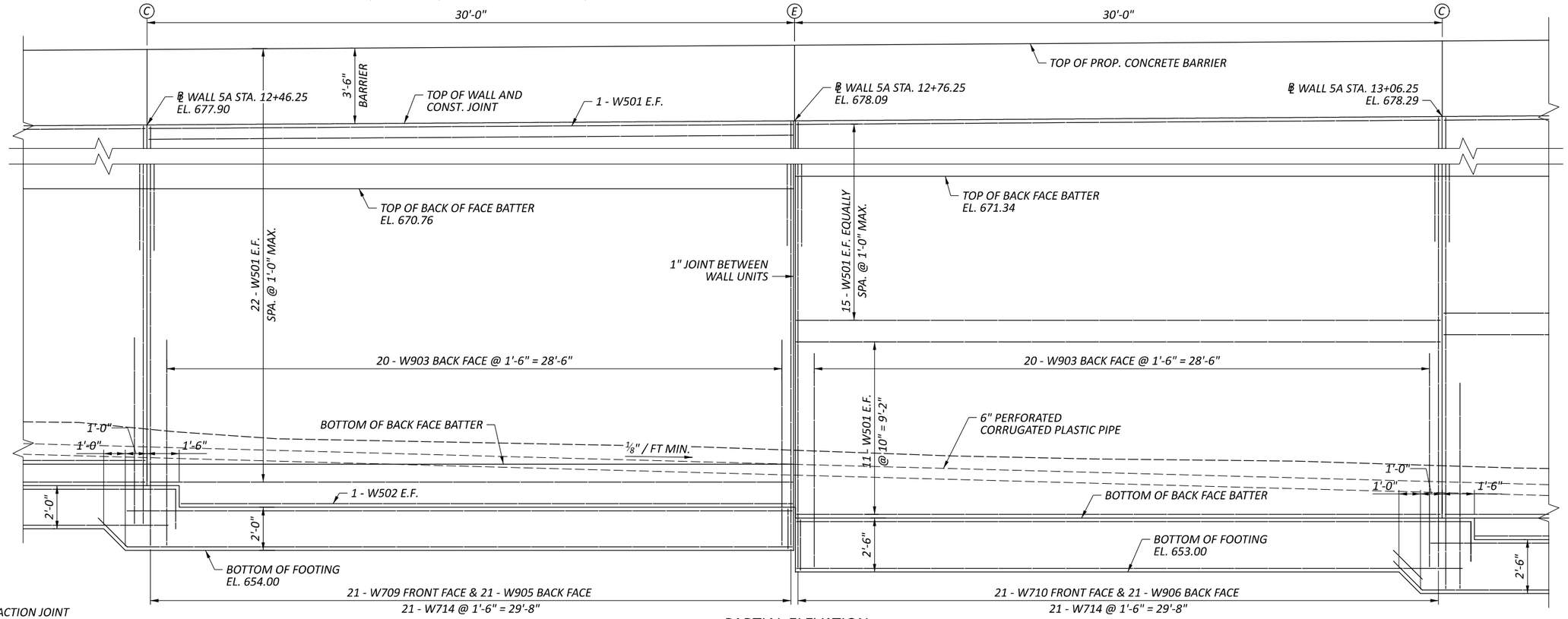



## PARTIAL PLAN

**NOTES:**

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.




## PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

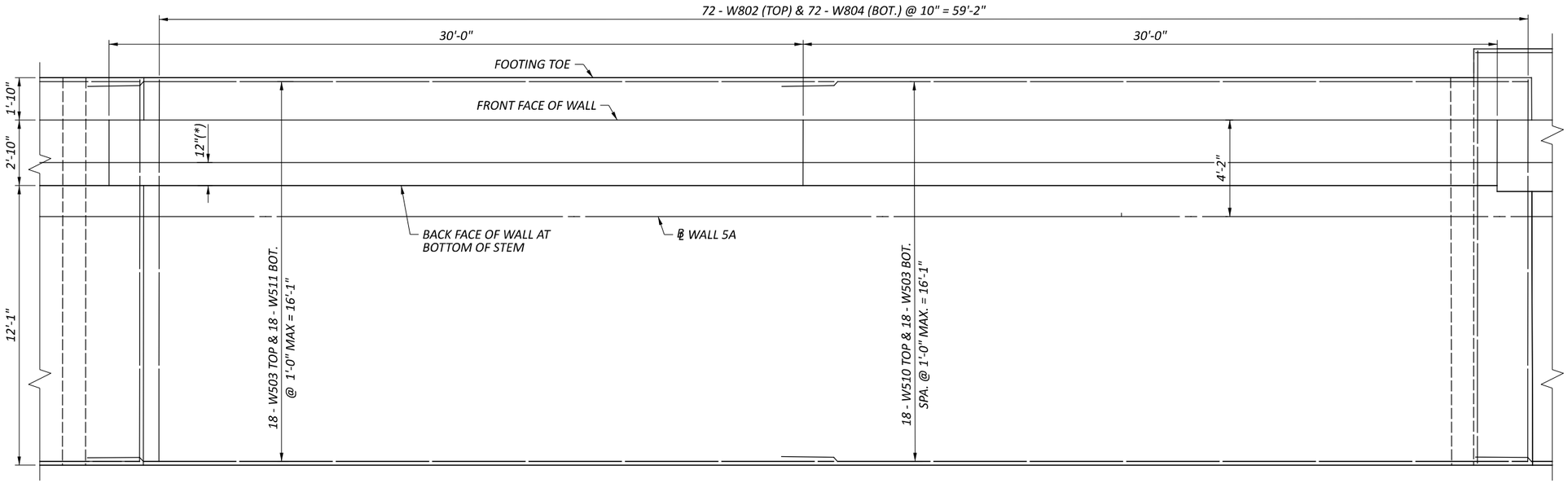
**LEGEND:**

- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT
- (*) - BACK FACE BATTER

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 17 |
| TOTAL | 23 |
| SHEET | P.909 |
| TOTAL | P.1135 |



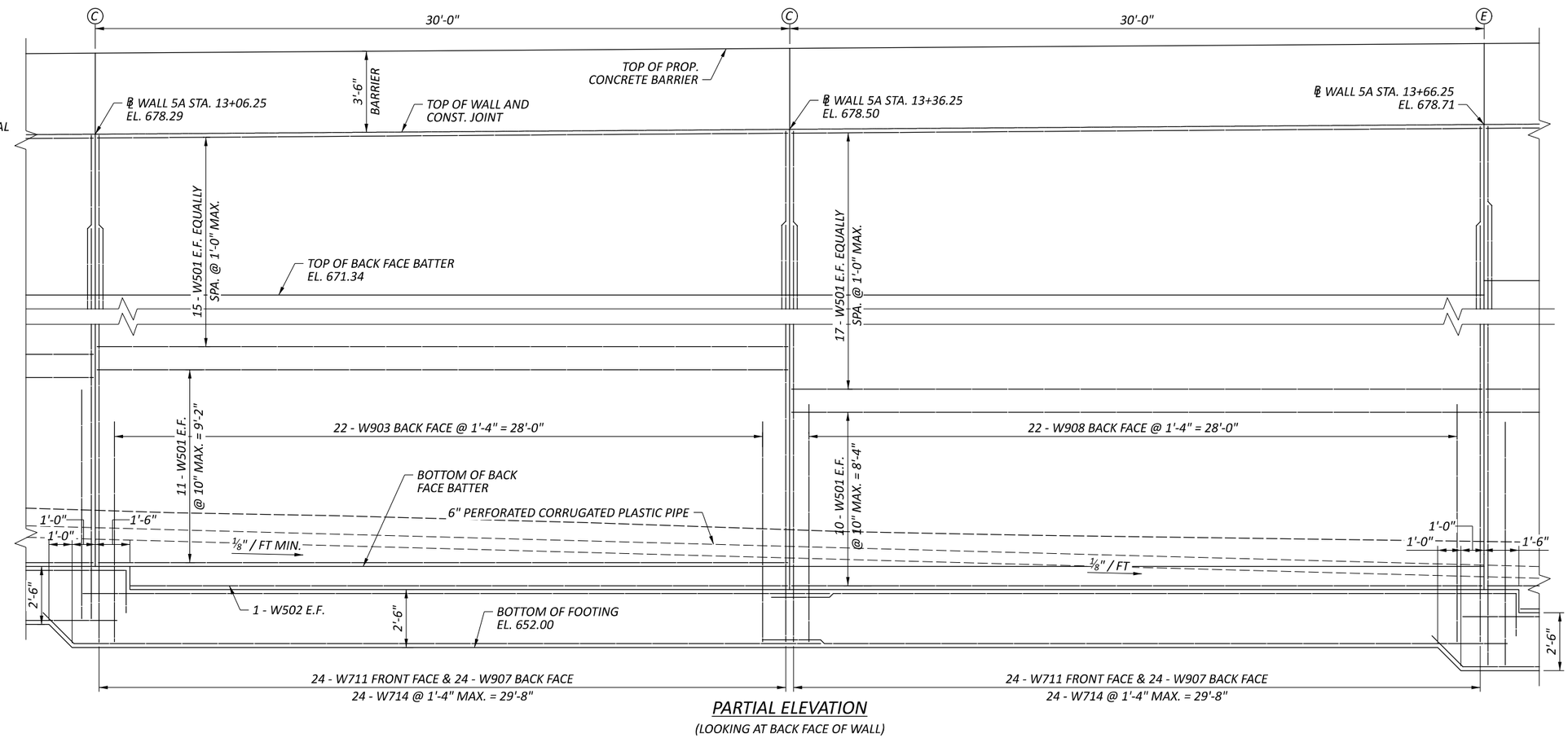

PARTIAL PLAN

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER



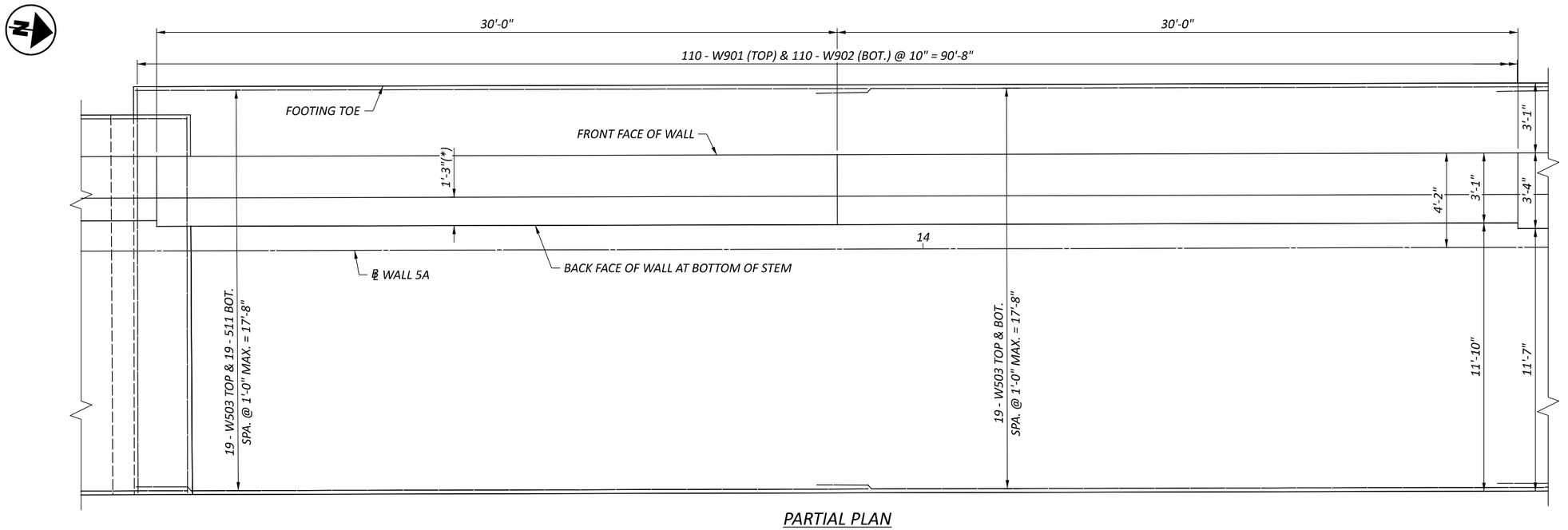

PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

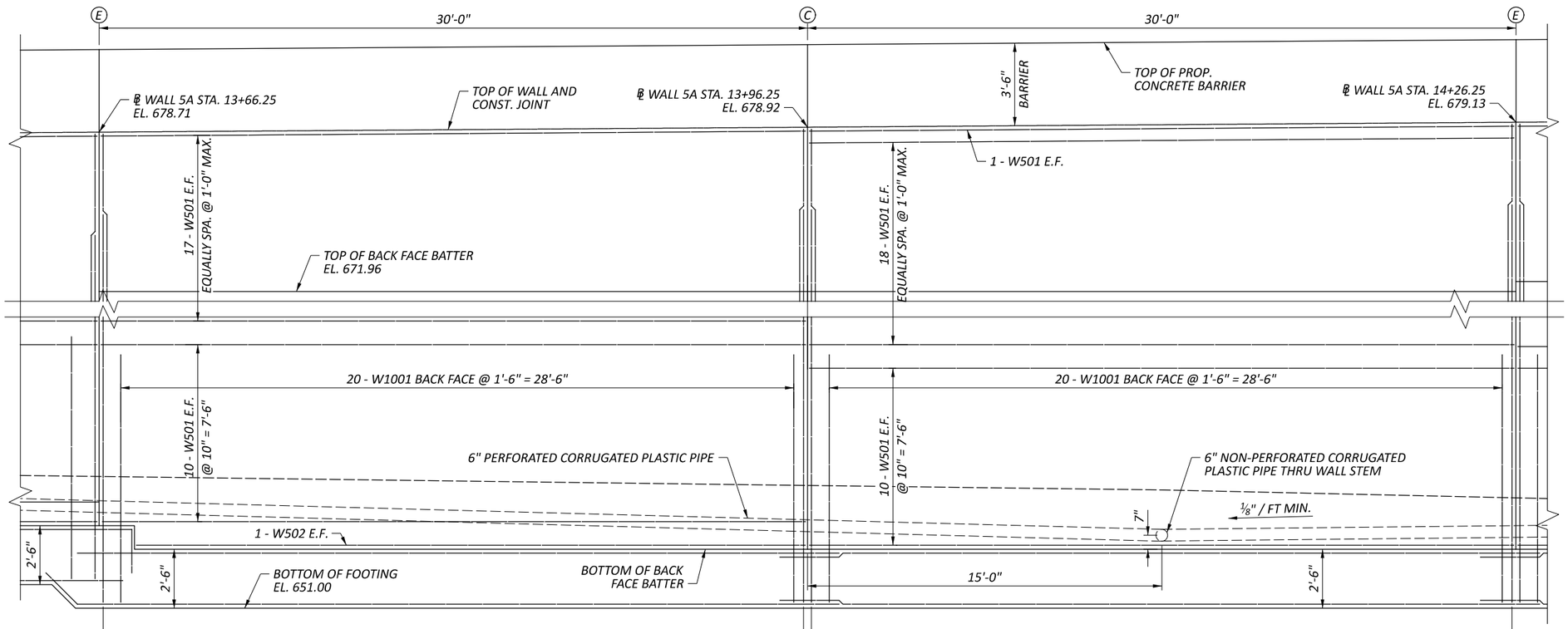
CUY-77-11.41 - PART 1

MODEL: up 19-20 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 18 TOTAL: 23
SHEET: P.910 TOTAL: P.1135




PARTIAL PLAN




PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## LEGEND:

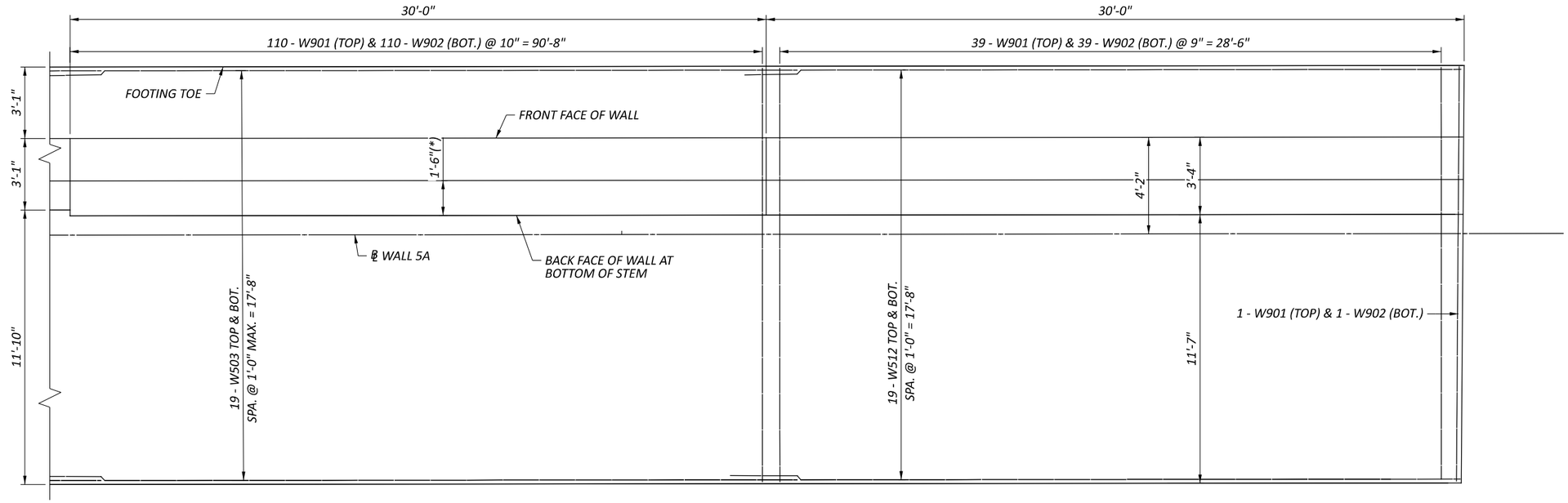
Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

# WALL PLAN AND ELEVATION
# RETAINING WALL 5A

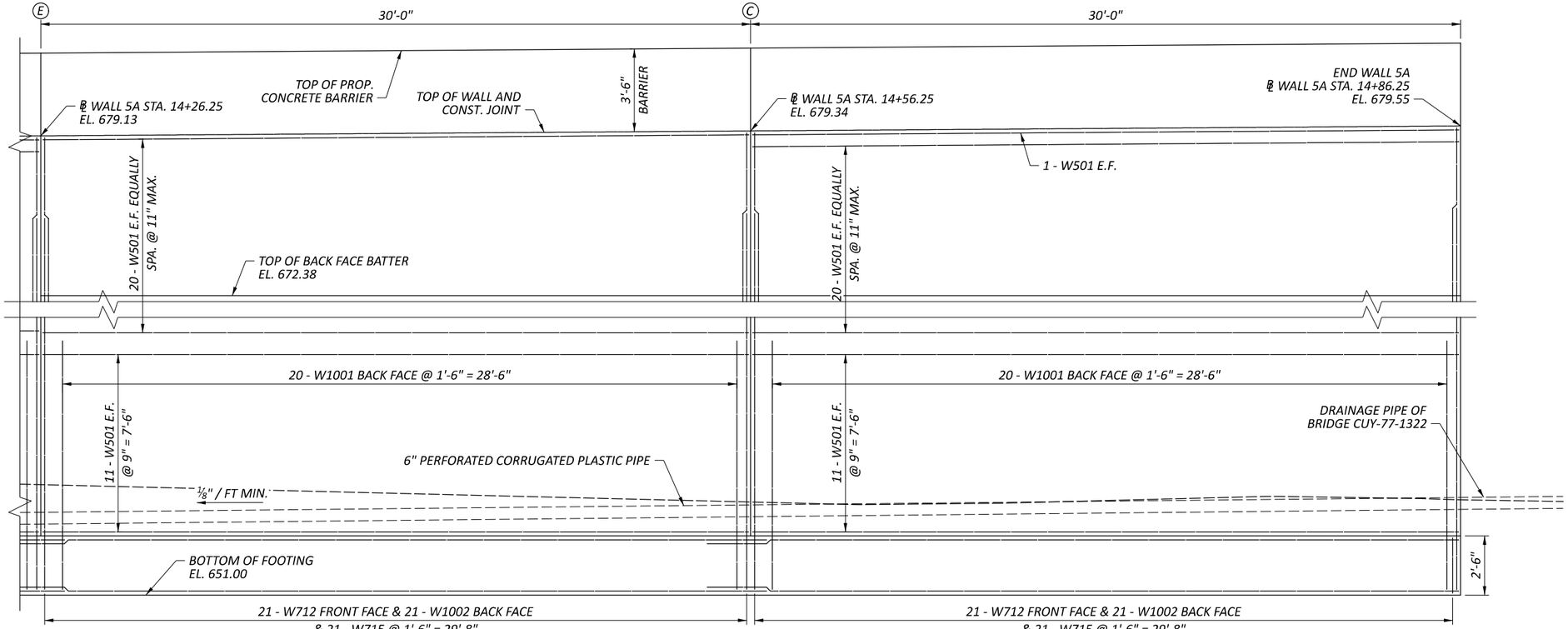
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 19 | TOTAL: 23
SHEET: P.911 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: UP 21-22 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn




PARTIAL PLAN




PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

## LEGEND:

- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT
- (*) - BACK FACE BATTER

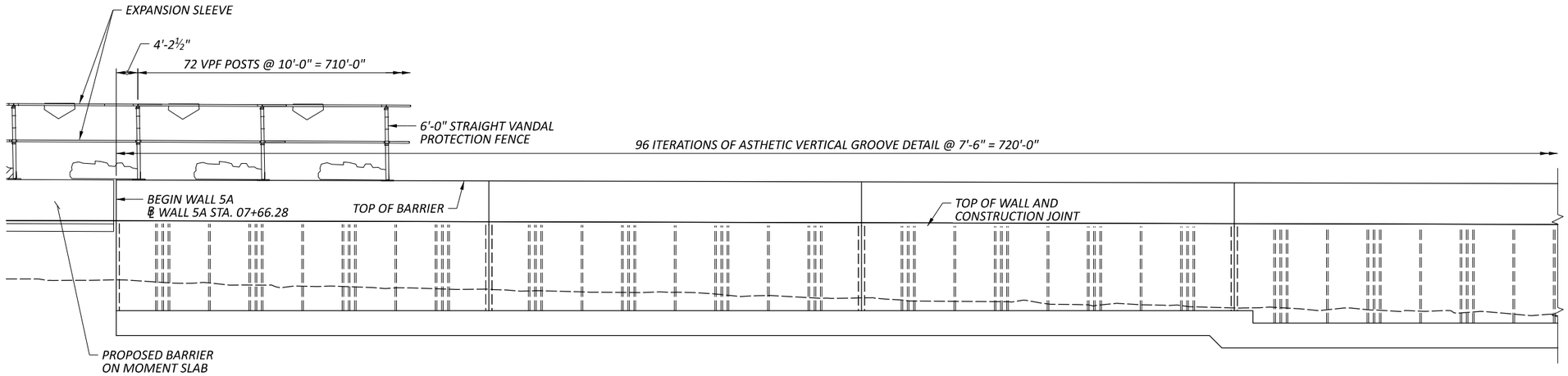
# WALL PLAN AND ELEVATION RETAINING WALL 5A

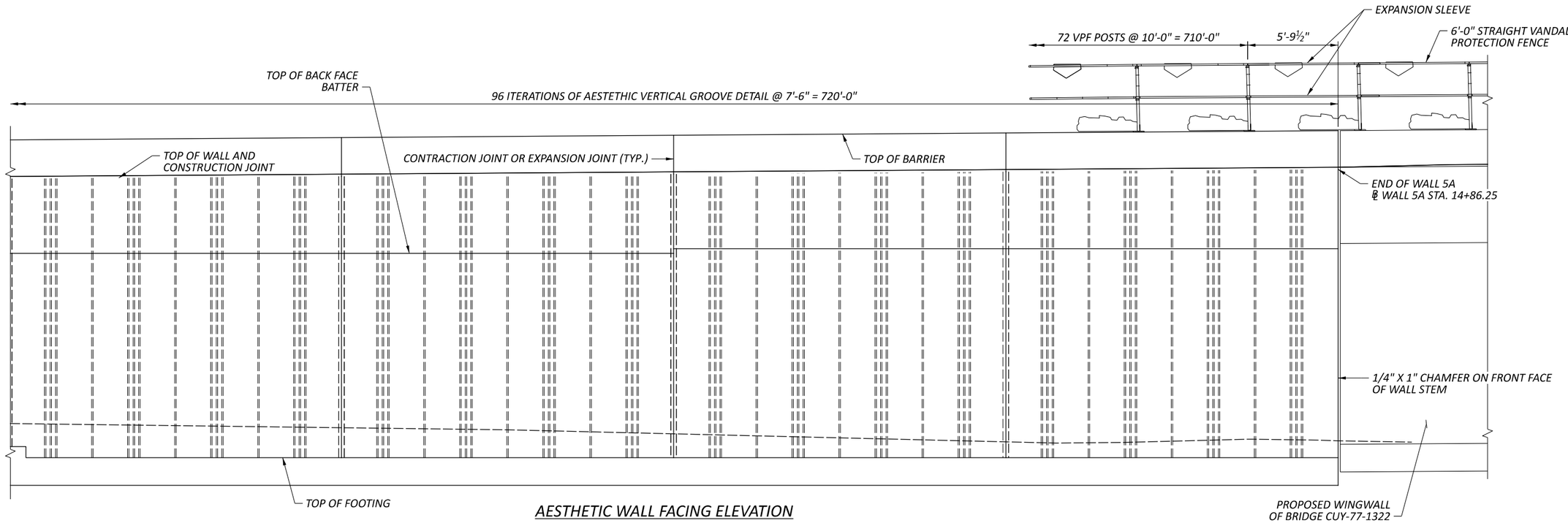
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 20 / 23 |
| SHEET / TOTAL | P.912 / P.1135 |

CUY-77-11.41 - PART 1

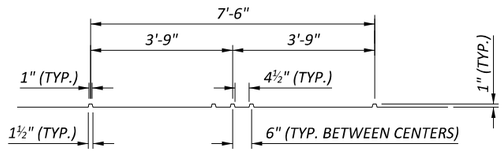
MODEL: UP 23-24 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:11:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn




## AESTHETIC WALL FACING ELEVATION

*(LOOKING AT BACK FACE OF WALL)*




## AESTHETIC VERTICAL GROOVE DETAIL

## NOTES:

1. ALL DIMENSIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL ELEVATIONS, SEE SHEETS 9/23 THRU 20/23.

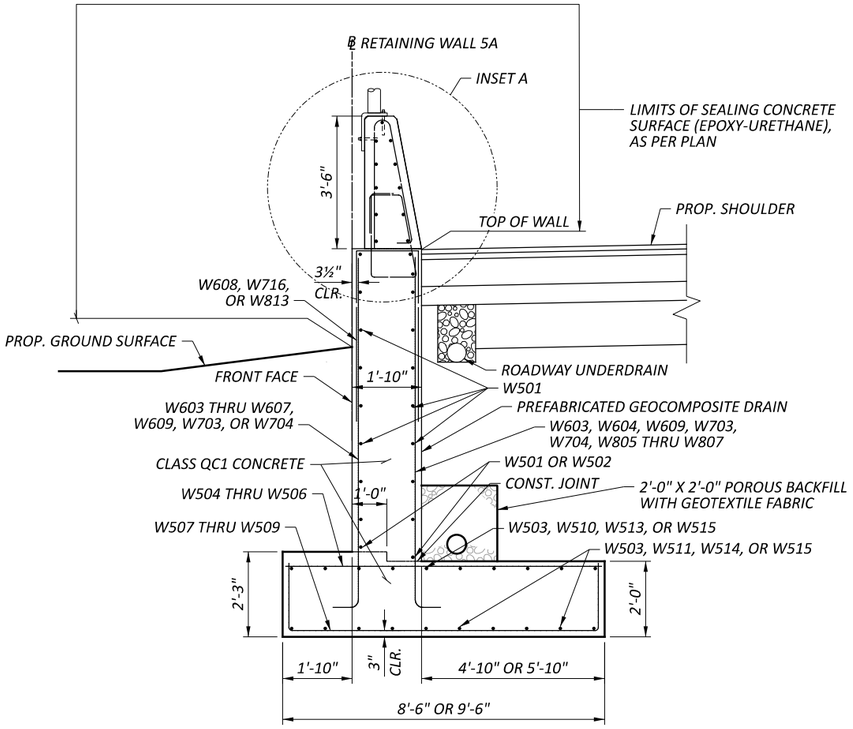
# AESTHETIC DETAILS AND VANDAL FENCE LAYOUT RETAINING WALL 5A

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 21 |
| TOTAL | 23 |
| SHEET | P.913 |
| TOTAL | P.1135 |

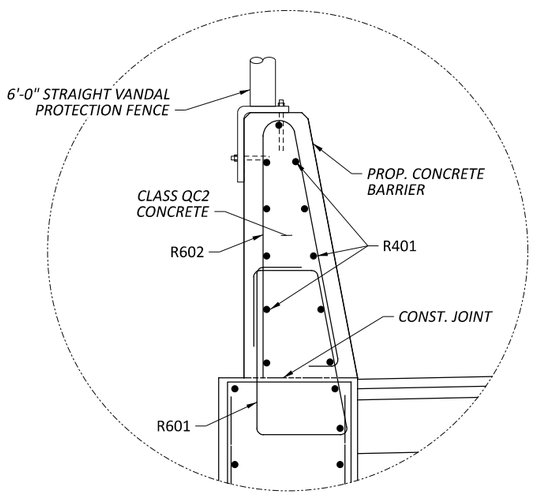
CUY-77-11.41 - PART 1

MODEL: sheet 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:12:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WD001.dgn




## WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 7+66.28 TO 10+06.28)

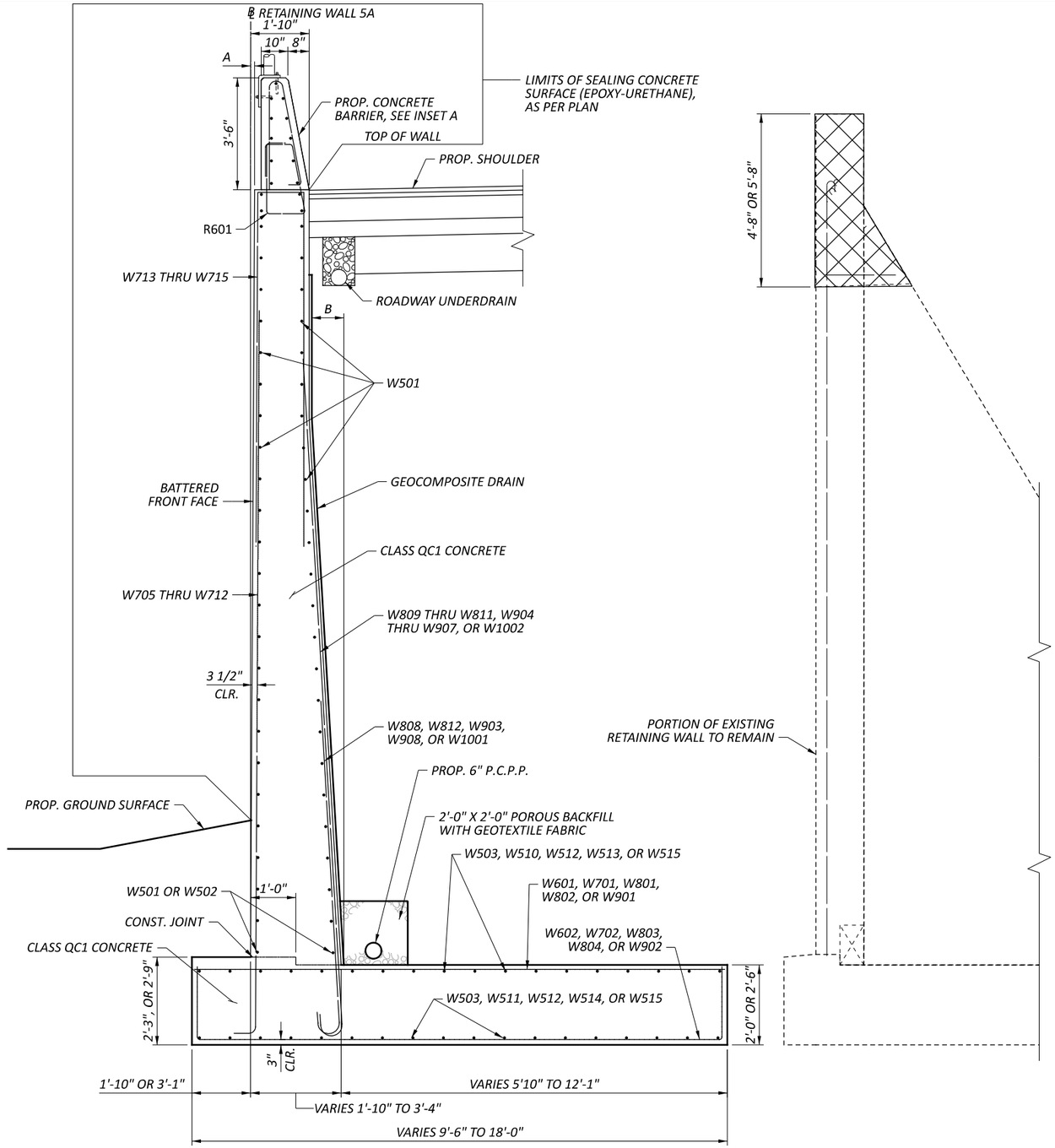



## INSET A

| WALL STEM BATTER | | |
|---|---|---|
| WALL 5A STATION | FRONT FACE (DIM. "A") | BACK FACE (DIM. "B") |
| 10+06.28 | 13/16" | 0'-0" |
| 10+36.28 | 13/16" | 0'-0" |
| 10+66.27 | 15/16" | 0'-0" |
| 10+96.27 | 1" | 0'-5" |
| 11+26.27 | 1 1/16" | 0'-5" |
| 11+56.26 | 1 1/8" | 0'-5" |
| 11+86.26 | 1 1/4" | 0'-5" |
| 12+16.25 | 1 5/16" | 0'-5" |
| 12+46.25 | 1 3/8" | 0'-5" |
| 12+76.25 | 1 7/16" | 1'-0" |
| 13+06.25 | 1 1/2" | 1'-0" |
| 13+36.25 | 1 1/2" | 1'-0" |
| 13+66.25 | 1 9/16" | 1'-3" |
| 13+96.25 | 1 9/16" | 1'-3" |
| 14+26.25 | 1 5/8" | 1'-6" |
| 14+56.25 | 1 5/8" | 1'-6" |
| 14+86.25 | 1 5/8" | 1'-6" |

## NOTES:

1. FOR WALL PLAN AND ELEVATION, SEE SHEETS 9/23 THRU 20/23.
2. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.
4. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED ABOVE THE WALL FOOTING UP TO THE ROADWAY SUBGRADE AND BETWEEN THE PROPOSED WALL STEM AND THE EXISTING RETAINING WALL WHERE THE STRUCTURE REMAINS.




## WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 10+06.28 TO 14+86.25)

# TYPICAL SECTION RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:12:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL005A_WY001.dgn

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 22 |
| TOTAL | 23 |
| SHEET | P.914 |
| TOTAL | P.1135 |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WALL STEM AND FOOTING | | | | | | | | | | | |
| W501 | 872 | 29'-8" | 26981 | STR | | | | | | | |
| W502 | 28 | 28'-2" | 823 | STR | | | | | | | |
| W503 | 201 | 32'-2" | 6743 | STR | | | | | | | |
| W504 | 183 | 8'-2" | 1559 | STR | | | | | | | |
| W505 | 95 | 9'-2" | 908 | STR | | | | | | | |
| W506 | 73 | 10'-8" | 812 | STR | | | | | | | |
| W507 | 183 | 11'-3" | 2147 | 2 | 1'-8" | 8'-2" | 1'-8" | | | | |
| W508 | 95 | 12'-3" | 1214 | 2 | 1'-8" | 9'-2" | 1'-8" | | | | |
| W509 | 73 | 13'-9" | 1047 | 2 | 1'-8" | 10'-8" | 1'-8" | | | | |
| W510 | 160 | 33'-10" | 5646 | 1 | 32'-2" | 1'-10" | | | | | |
| W511 | 169 | 34'-2" | 6022 | 19 | 32'-2" | 1'-5" | 1'-5" | | | | |
| W512 | 38 | 30'-9" | 1219 | STR | | | | | | | |
| W513 | 29 | 32'-8" | 988 | 1 | 31'-0" | 1'-10" | | | | | |
| W514 | 28 | 32'-9" | 956 | 19 | 30'-9" | 1'-5" | 1'-5" | | | | |
| W515 | 57 | 31'-0" | 1843 | STR | | | | | | | |
| | | | | | | | | | | | |
| W601 | 73 | 12'-2" | 1334 | STR | | | | | | | |
| W602 | 73 | 15'-2" | 1663 | 2 | 1'-8" | 12'-2" | 1'-8" | | | | |
| W603 | 186 | 9'-0" | 2514 | 1 | 8'-6" | 0'-8" | | | | | |
| W604 | 62 | 9'-10" | 916 | 1 | 9'-4" | 0'-8" | | | | | |
| W605 | 31 | 14'-4" | 667 | 1 | 13'-10" | 0'-8" | | | | | |
| W606 | 34 | 15'-7" | 796 | 1 | 15'-1" | 0'-8" | | | | | |
| W607 | 21 | 16'-9" | 528 | 1 | 16'-3" | 0'-8" | | | | | |
| W608 | 195 | 9'-2" | 2685 | 2 | 4'-0" | 1'-6" | 4'-0" | | | | |
| | | | | | | | | | | | |
| W701 | 73 | 13'-8" | 2039 | STR | | | | | | | |
| W702 | 73 | 16'-7" | 2474 | 2 | 1'-8" | 13'-8" | 1'-8" | | | | |
| W703 | 62 | 12'-0" | 1521 | 1 | 11'-6" | 0'-8" | | | | | |
| W704 | 68 | 13'-2" | 1830 | 1 | 12'-8" | 0'-8" | | | | | |
| W705 | 24 | 13'-0" | 638 | 1 | 12'-6" | 0'-8" | | | | | |
| W706 | 24 | 14'-2" | 695 | 1 | 13'-8" | 0'-8" | | | | | |
| W707 | 24 | 15'-5" | 756 | 1 | 14'-11" | 0'-8" | | | | | |
| W708 | 21 | 16'-2" | 694 | 1 | 15'-8" | 0'-8" | | | | | |
| W709 | 42 | 17'-3" | 1481 | 1 | 16'-9" | 0'-8" | | | | | |
| W710 | 21 | 19'-9" | 848 | 1 | 19'-3" | 0'-8" | | | | | |
| W711 | 48 | 21'-1" | 2069 | 1 | 20'-7" | 0'-8" | | | | | |
| W712 | 84 | 22'-2" | 3806 | 1 | 21'-8" | 0'-8" | | | | | |
| W713 | 72 | 19'-11" | 2931 | 2 | 9'-5" | 1'-6" | 9'-5" | | | | |
| W714 | 132 | 20'-11" | 5643 | 2 | 9'-11" | 1'-6" | 9'-11" | | | | |
| W715 | 84 | 22'-3" | 3820 | 2 | 10'-7" | 1'-6" | 10'-7" | | | | |
| W716 | 65 | 10'-2" | 1351 | 2 | 4'-6" | 1'-6" | 4'-6" | | | | |
| | | | | | | | | | | | |
| W801 | 72 | 14'-8" | 2819 | STR | | | | | | | |
| W802 | 107 | 16'-5" | 4690 | STR | | | | | | | |
| W803 | 72 | 17'-7" | 3380 | 2 | 1'-8" | 14'-8" | 1'-8" | | | | |
| W804 | 107 | 19'-4" | 5523 | 2 | 1'-8" | 16'-5" | 1'-8" | | | | |
| W805 | 31 | 14'-3" | 1179 | 1 | 13'-10" | 0'-8" | | | | | |
| W806 | 34 | 10'-6" | 953 | 1 | 10'-1" | 0'-8" | | | | | |
| W807 | 41 | 16'-8" | 1824 | 1 | 16'-3" | 0'-8" | | | | | |
| W808 | 44 | 8'-8" | 1018 | 16 | 7'-10" | | | | | | |
| W809 | 24 | 14'-7" | 934 | 16 | 13'-9" | | | | | | |
| W810 | 24 | 15'-3" | 977 | 16 | 14'-5" | | | | | | |
| W811 | 24 | 16'-1" | 1031 | 16 | 15'-3" | | | | | | |
| W812 | 22 | 9'-11" | 583 | 16 | 9'-1" | | | | | | |
| W813 | 86 | 11'-1" | 2545 | 2 | 5'-0" | 1'-6" | 5'-0" | | | | |
| | | | | | | | | | | | |
| SUB-TOTAL | | | 130,063 | | | | | | | | |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WALL STEM AND FOOTING | | | | | | | | | | | |
| W901 | 149 | 17'-8" | 8950 | STR | | | | | | | |
| W902 | 149 | 21'-5" | 10850 | 2 | 2'-2" | 17'-8" | 2'-2" | | | | |
| W903 | 102 | 11'-1" | 3844 | 16 | 9'-10" | | | | | | |
| W904 | 21 | 18'-7" | 1327 | 16 | 17'-4" | | | | | | |
| W905 | 42 | 20'-9" | 2963 | 16 | 19'-6" | | | | | | |
| W906 | 21 | 22'-6" | 1606 | 16 | 21'-3" | | | | | | |
| W907 | 48 | 23'-4" | 3808 | 16 | 22'-1" | | | | | | |
| W908 | 22 | 11'-6" | 860 | 16 | 10'-3" | | | | | | |
| | | | | | | | | | | | |
| W1001 | 80 | 11'-11" | 4102 | 16 | 10'-6" | | | | | | |
| W1002 | 84 | 26'-3" | 9488 | 16 | 24'-10" | | | | | | |
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| | | | | | | | | | | | |
| SUB-TOTAL | | | 47,798 | | | | | | | | |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BARRIER | | | | | | | | | | | |
| R401 | 264 | 29'-8" | 5232 | STR | | | | | | | |
| | | | | | | | | | | | |
| R601 | 744 | 6'-4" | 7078 | 37 | 0'-9" | 0'-9 ½" | 1'-5" | 1'-0" | 0'-7" | | |
| R602 | 744 | 7'-0" | 7823 | 23 | 0'-6" | 3'-3" | 3'-3" | | | 0'-2" | |
| | | | | | | | | | | | |
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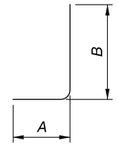
| | | | | | | | | | | | |
| SUB-TOTAL | | | 20,133 | | | | | | | | |

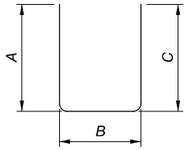
## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.




TYPE-1

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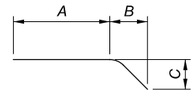


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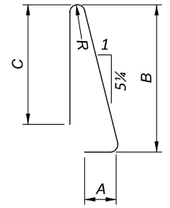


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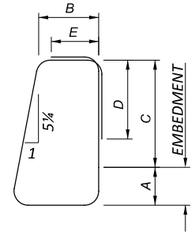
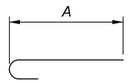



TYPE-37




TYPE-16

REINFORCING STEEL LIST
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

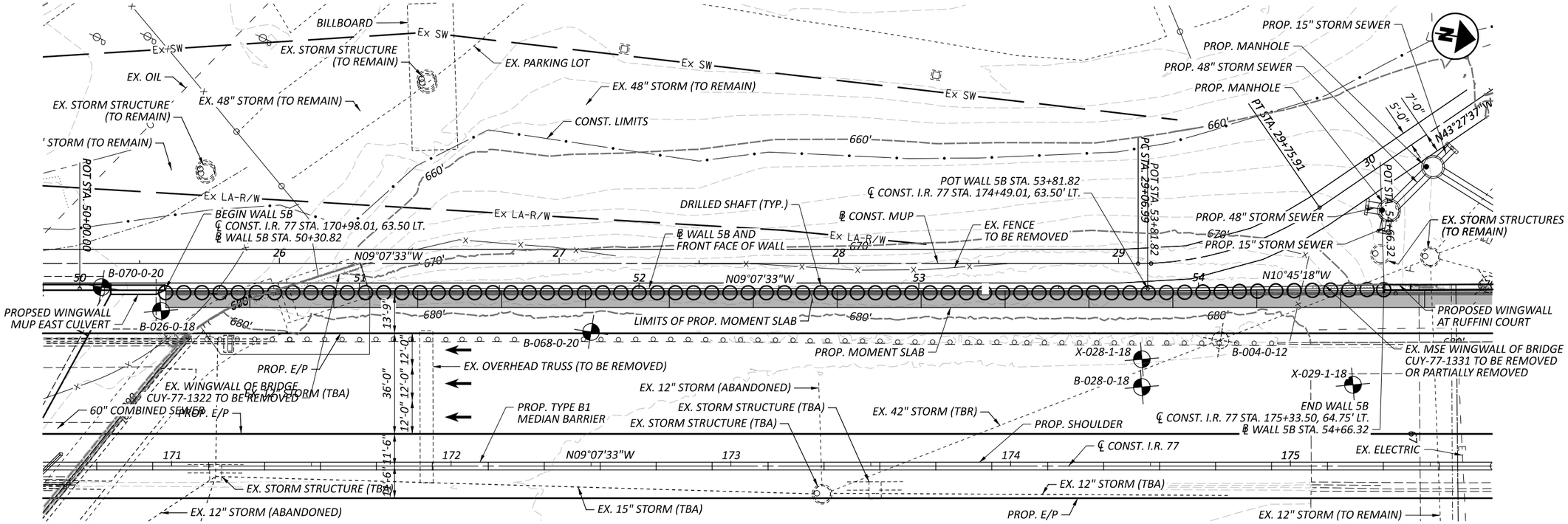
SUBSET 23 | TOTAL 23

SHEET P.915 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:12:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WL001.dgn

CURVE DATA MUP
P.I. = STA. 29+42.52
Δ = 34°20'04" LT
Dc = 49°49'21"
R = 115.00'
T = 35.53'
L = 68.91'
E = 5.36'

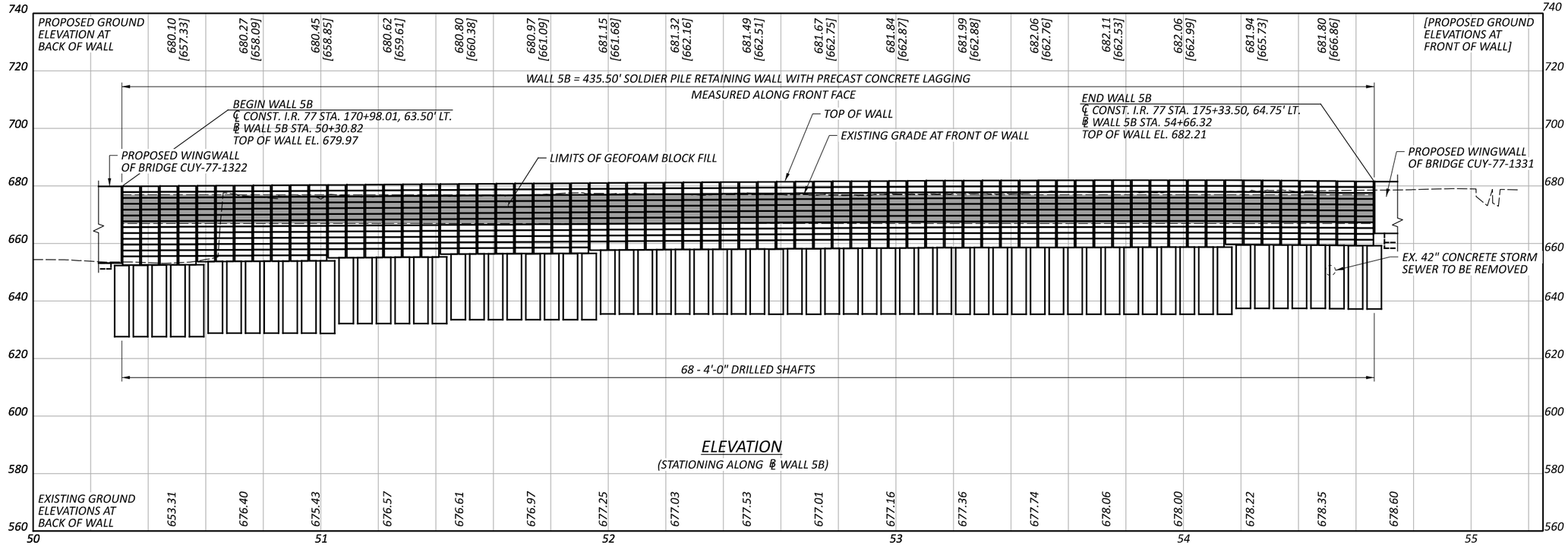



## PLAN

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B AND 1C.

LEGEND:
- SOIL BORING LOCATION
- HISTORIC SOIL BORING LOCATION




## ELEVATION
(STATIONING ALONG ℄ WALL 5B)

# SITE PLAN
# RETAINING WALL 5B

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 13
SHEET: P.916 TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: plan [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:12:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05B\Sheets\105743_WALL05B_WP001.dgn

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36x194

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILES FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES

ALL SURFACES OF SOLDIER PILES SHALL BE SHOP PAINTED WITH A PRIME COAT FROM A DEPTH OF 3 FEET BELOW TOP OF DRILLED SHAFT TO THE TOP OF PILE. AFTER ALL LAGGING PANELS ARE INSTALLED, THE EXPOSED FLANGE SHALL BE PAINTED WITH A FINISH COAT THAT HAS A COLOR SIMILAR TO THE SEALANT ON THE CONCRETE LAGGING. ALL LABOR AND MATERIALS REQUIRED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE STEEL SOLDIER PILES.

## ITEM SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING:

THIS WORK CONSISTS OF FURNISHING AND PLACING PRECAST REINFORCED CONCRETE PANELS BETWEEN THE SOLDIER PILES TO FUNCTION AS LAGGING FOR THE RETAINING WALL. PROVIDE PRECAST CONCRETE LAGGING FROM A PRECAST CONCRETE MANUFACTURER CERTIFIED ACCORDING TO SUPPLEMENT 1073. PROVIDE CLASS QC 1 CONCRETE ACCORDING TO C&MS 499. PROVIDE EPOXY COATED REINFORCING STEEL ACCORDING TO C&MS 709.00. IN LIEU OF EPOXY COATING, A CORROSION INHIBITING CONCRETE ADMIXTURE MAY BE USED AT THE SPECIFIED DOSAGE RATE. A QUALIFIED PRODUCT LIST OF CORROSION INHIBITING ADMIXTURES IS ON FILE AT THE LABORATORY. MANUFACTURERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR MAY AFFECT THE STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE MANUFACTURER'S CHOICE TO USE ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING ALL DESIGN REQUIREMENTS. DO NOT ALLOW THE DIMENSIONS OF THE LAGGING OR LOCATION OF THE REINFORCING STEEL TO VARY BY MORE THAN 1/4-INCH. CAST THREADED INSERTS INTO THE TOP OF EACH PANEL FOR LIFTING AND PLACING.

FILL ALL CAVITIES PRODUCED BY FORM TIES AND OTHER SINGLE DEFECTS OR DEFECTED AREAS AND WITH A PREQUALIFIED TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.02 AND 843.06. LIKEWISE FILL CAVITIES FOR LIFTING INSERTS IN THE TOP ROW OF PRECAST CONCRETE LAGGING PANELS. PROVIDE A BROOM/BRUSH FINISH TO ALL TROWELABLE MORTAR PATCHES. CURE THE TROWELABLE MORTAR ACCORDING TO SUPPLEMENTAL SPECIFICATION 843.07. AIR DRY FOR AT LEAST 10 DAYS AFTER COMPLETION OF THE MANUFACTURER'S RECOMMENDED CURE TIME FOR TROWELABLE MORTAR. BRUSH ABRASIVE BLAST, FOLLOWED BY AIR BROOMING OR POWER SWEEPING, TO REMOVE DUST AND SAND FROM THE SURFACE AND OPENED PORES.

FINISH THE FACES OF THE PRECAST CONCRETE LAGGING PANELS THAT WILL NOT BE EXPOSED TO A UNIFORM SURFACE, FREE OF OPEN POCKETS OF AGGREGATE. FINISH THE EXPOSED FACE OF THE PANELS TO A SMOOTH SURFACE. SEAL THE FRONT (EXPOSED) FACE, SIDES, TOP, BOTTOM, AND 3" MINIMUM OF THE BACK FACE OF THE CONCRETE PANEL WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). THE COLOR OF THE URETHANE SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). COST OF SEALING SHALL BE INCIDENTAL AND INCLUDED WITH THE PRECAST CONCRETE LAGGING PANELS FOR PAYMENT.

PERMANENTLY MARK EACH PRECAST CONCRETE LAGGING PANEL TO INDICATE WHICH FACE WILL BE PLACED AGAINST THE SOIL. PLACE THE PANEL BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST ONE INCH MORE THAN THE CONCRETE COVER OVER THE REINFORCING STEEL AT BOTH ENDS OF THE LAGGING.

HANDLE, STORE AND SHIP THE PRECAST CONCRETE LAGGING PANELS TO AVOID CHIPPING, CRACKING AND FRACTURING THE PANELS. SUPPORT THE PANELS ON FIRM BLOCKING WHILE STORING AND SHIPPING. DO NOT SHIP PANELS UNTIL CONCRETE HAS ATTAINED A MINIMUM 3000 PSI COMPRESSIVE STRENGTH. SUBMIT SHIPMENT DOCUMENTATION TO THE ENGINEER AS THE PANELS ARE DELIVERED TO THE PROJECT, INCLUDING THE PRECASTER'S RECORD OF FINAL INSPECTION, THE MEASUREMENTS AND TOLERANCES, STRENGTH, AND DIMENSIONS OF EACH PANEL, ALONG WITH THE TE-24 SHIPPING DOCUMENT.

INSPECT ALL PRECAST CONCRETE LAGGING PANELS AND REJECT PANELS HAVING ANY OF THE FOLLOWING:

1. DEFECTS THAT INDICATE IMPERFECT MOLDING.
2. DEFECTS THAT INDICATE HONEYCOMBED OR OPEN TEXTURE CONCRETE.
3. DEFECTS IN THE PHYSICAL CHARACTERISTICS OF THE CONCRETE, OR DAMAGE TO THE SEALING OF CONCRETE SURFACE TREATMENT OR TO AESTHETIC SURFACE TREATMENTS.
4. CONCRETE CHIPS OR SPALLS THAT ARE LARGER THAN 4 INCHES WIDE OR 2 INCHES DEEP. REPAIR ALL CHIPS AND SPALLS THAT ARE SMALLER.
5. STAINED FORM FACES DUE TO FORM OIL, CURING, OR OTHER CONTAMINANTS.
6. SIGNS OF AGGREGATE SEGREGATION.
7. CRACKS WIDER THAN 0.01 INCHES, PENETRATING MORE THAN 1 INCH OR LONGER THAN 20 PERCENT OF THE LENGTH OF THE FACE CONTAINING THE CRACK. REPAIR ALL CRACKS THAT ARE SMALLER.
8. PANELS THAT DO NOT MEET THE SPECIFIED DIMENSIONAL TOLERANCES.
9. UNUSABLE LIFTING INSERTS.
10. EXPOSED REINFORCING STEEL.
11. INSUFFICIENT CONCRETE COMPRESSIVE STRENGTH.

EITHER REPLACE DAMAGED PRECAST CONCRETE LAGGING PANELS OR DOCUMENT THE DAMAGE AND PROPOSE TO THE ENGINEER A REPAIR METHOD FOR THE DAMAGED PANEL; PERFORM REPAIRS WITH THE ACCEPTANCE OF THE ENGINEER. PROVIDE ACCEPTABLE REPLACEMENT PANELS FOR ANY THAT ARE REJECTED. WHEN INSTALLING THE PRECAST CONCRETE LAGGING PANELS, PLACE HARDWOOD WEDGES NEAR THE TOP AND BOTTOM N EACH SIDE TO HOLD THE LAGGING PANELS AGAINST THE FRONT INSIDE FLANGE OF THE STEEL PILES.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO FABRICATE, TRANSPORT, AND INSTALL THE PRECAST CONCRETE LAGGING PANELS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM 530 SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING.

## ITEM 524 - DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

| - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES AND ESTIMATED QUANTITIES 1 OF 2
RETAINING WALL 5B

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 13
SHEET P.917 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## ITEM 203 - ROADWAY MISC.: EPS GEOFOAM FILL

THIS WORK CONSISTS FURNISHING, TRIMMING AND PLACING BLOCK-MOLDED EXPANDED POLYSTYRENE (EPS) FOR USE AS A GEOFOAM GEOSYNTHETIC PRODUCT IN APPLICATIONS REQUIRING LIGHTWEIGHT FILL MATERIAL.

FURNISH EPS GEOFOAM BLOCKS PRODUCED BY A MANUFACTURER WITH A QUALITY CONTROL PROGRAM WHICH IS MONITORED AND CERTIFIED BY AN ACCREDITED, THIRD-PARTY TESTING ORGANIZATION. AT LEAST 20 DAYS BEFORE THE WORK IS TO BEGIN, SUBMIT TO THE ENGINEER THE FOLLOWING DOCUMENTS:

1. CERTIFIED TEST DATA SHOWING THE EPS GEOFOAM MEETS THE SPECIFIED REQUIREMENTS.
2. MANUFACTURER'S QUALITY CONTROL PLAN AND EVIDENCE OF THIRD-PARTY QUALITY CONTROL MONITORING.
3. SHOP DRAWINGS SHOWING BLOCK THICKNESS, WIDTH, LENGTH AND LAYING PATTERN OR SCHEDULE.

FURNISH EPS GEOFOAM BLOCKS CONFORMING TO ASTM D 6817, RIGID CELLULAR POLYSTYRENE GEOFOAM, ACCORDING TO THE GEOFOAM TYPE INDICATED IN THE PLANS AND THE TABLE BELOW.

| ASTM TYPE | EPS22 | EPS29 |
|---|---|---|
| MINIMUM DENSITY, LB/CU. FT. | 1.35 | 1.8 |
| COMPRESSIVE RESISTANCE | | |
| AT 1% STRAIN, PSI | 7.3 | 10.9 |
| AT 5% STRAIN, PSI | 16.7 | 25.0 |
| AT 10% STRAIN, PSI | 19.6 | 29.0 |
| FLEXURAL STRENGTH, PSI | 35.0 | 50.0 |

FURNISH BLOCKS TREATED BY THE MANUFACTURER WITH A TESTED AND PROVEN TERMITE TREATMENT FOR BELOW GRADE APPLICATIONS. THE TREATMENT SHALL BE EPA REGISTERED, MEET REQUIREMENTS OF ICC ES AC 239, AND BE RECOGNIZED IN AN ICC ES REPORT. FURNISH BLOCKS THAT MEET THE PRODUCT FLAMMABILITY REQUIREMENTS SPECIFIED IN ASTM C578.

FURNISH BLOCKS THAT ARE SMOOTH AND FLAT ON ALL SURFACES AND HAVE A DIMENSIONAL TOLERANCE OF ±0.5 PERCENT. THE CORNER OR EDGE FORMED BY ANY TWO FACES OF A BLOCK SHALL BE PERPENDICULAR. THE DEVIATION OF ANY FACE OF THE BLOCK FROM A THEORETICAL PERPENDICULAR PLANE SHALL NOT EXCEED 1/8 INCH OVER A DISTANCE OF 20 INCHES. ANY ONE FACE OF A BLOCK SHALL NOT DEVIATE FROM A THEORETICAL PLANE BY MORE THAN 1/4 INCH WHEN MEASURED USING A STRAIGHTEDGE WITH A LENGTH OF 10 FEET.

BEFORE SHIPPING TO THE SITE, ENSURE BLOCKS ARE SEASONED BY STORING THEM AT THE MANUFACTURER'S FACILITY FOR AT LEAST 72 HOURS AT NORMAL AMBIENT ROOM TEMPERATURE AFTER BEING RELEASED FROM THE MOLD. DURING SEASONING, ALLOW ADEQUATE SPACE BETWEEN THE BLOCKS TO ALLOW AIR CIRCULATION SO AS TO FOSTER THE OUTGASSING OF BLOWING AGENT AND TRAPPED CONDENSATE FROM WITHIN THE BLOCKS.

LABEL EACH BLOCK WITH THE MANUFACTURER'S NAME, ASTM EPS TYPE, THE DATE THE BLOCK WAS MOLDED, THE WEIGHT AND THE DENSITY OF THE BLOCK AS MEASURED AFTER SEASONING.

PROTECT THE BLOCKS FROM EXPOSURE TO THE FOLLOWING:

1. ORGANIC SOLVENTS SUCH AS ACETONE, BENZENE, AND PAINT THINNER
2. PETROLEUM BASED SOLVENTS SUCH AS GASOLINE AND DIESEL FUEL
3. HEAT SOURCES OR ACTIVITY THAT PRODUCE HEAT OR FLAME, INCLUDING TOBACCO SMOKING
4. MORE THAN 30 DAYS EXPOSURE TO SUNLIGHT

PROVIDE TIE DOWN STRAPS, SANDBAGS OR OTHER FLEXIBLE WEIGHTS TO PREVENT BLOCKS FROM BEING DISLODGED BY WIND. DO NOT STORE WHERE THERE IS A POTENTIAL FOR FLOODING.

PROTECT BLOCKS FROM DAMAGE. BLOCKS WITH SLIGHR DAMAGE WHICH AFFECTS A VOLUME OF 0.12 CUBIC FEET OR LESS MAY BE USED AS IS. BLOCKS WITH MODERATE DAMAGE WHICH AFFECTS A VOLUME OF 0.35 CUBIC FEET OR LESS MAY BE USED AND THE DAMAGED AREA FILLED WITH SAND. DO NOT USE BLOCKS WITH DAMAGE THAT AFFECTS A VOLUME GREATER THAN 0.35 CUBIC FEET. THE CONTRACTOR MAY CUT AND REMOVE THE DAMAGED PORTION OF A BLOCK AND THEN USE THE REMAINING UNDAMAGED PORTION OF THE BLOCK IF IT MEETS ALL OTHER REQUIREMENTS.

PREPARE THE SURFACE ON WHICH THE FIRST LAYER OF BLOCKS WILL BE PLACED BY STRIPPING ALL VEGETATION AND GRADING SO THAT IT IS LEVEL WITHIN A TOLERANCE OF 0.5 INCH OVER A 10 FT DISTANCE. PLACE GRANULAR MATERIAL CONFORMING TO SIZE NO. 9 IN TABLE 703.01 IN THE CM&S ON THE SURFACE TO FILL ANY LOW SPOTS IN THE SURFACE. ALSO USE NO. 9 GRANULAR MATERIAL TO FILL VOIDS BETWEEN THE SIDES OF BLOCKS AND ADJACENT SOIL OR RETAINING WALL COMPONENTS.

PLACE BLOCKS AS INDICATED ON THE PLANS AND SHOP DRAWINGS. PLACE BLOCKS SO THAT ALL VERTICAL AND HORIZONTAL JOINTS BETWEEN BLOCKS ARE TIGHT. GAPS BETWEEN BLOCKS AND ALONG THE RETAINING WALL SHALL NOT EXCEED 1 INCH. AVOID CONTINUOUS VERTICAL JOINTS BY OFFSETTING AND ROTATING SUCCESSIVE LAYERS OF BLOCKS. OFFSET BLOCKS AT LEAST 2 FEET BETWEEN LAYERS. THE SURFACE OF EACH LAYER OF BLOCKS ON WHICH ANOTHER LAYER WILL BE PLACED MUST BE LEVEL TO WITHIN 0.5 INCH OVER A 10 FT DISTANCE. CONSTRUCT THE SURFACE OF THE UPPERMOST LAYER OF BLOCKS TO THE GRADE SHOWN ON THE PLANS TO A TOLERANCE OF ZERO TO MINUS 2.5 INCHES.

TRIM THE BLOCKS AS REQUIRED USING A SAW OR HOTWIRE.

PLACE CONNECTOR PLATES BETWEEN HORIZONTAL LAYERS OF BLOCKS. PLACE AT LEAST TWO CONNECTOR PLATES PER BLOCK. FURNISH CONNECTOR PLATES MANUFACTURED FROM GALVANIZED STEEL OR STAINLESS STEEL AND THAT ARE BARBED ON BOTH SIDES. EACH CONNECTOR PLATE SHALL HAVE A LATERAL HOLDING STRENGTH OF AT LEAST 60 LBS.

PORTIONS OF THE GEOFOAM FILL THAT ARE NOT BENEATH A CONCRETE DISTRIBUTION SLAB OR CONCRETE APPROACH SLAB MUST BE PROTECTED FROM HYDROCARBON SPILLS (E.G. DIESEL OR GASOLINE) BY COVERING THE GEOFOAM BLOCKS ON THE TOP AND SIDES FURNISH A GEOMEMBRANE MANUFACTURED FROM A TRI-POLYMER MATERIAL CONSISTING OF POLYVINYL CHLORIDE, ETHYLENE INTERPOLYMER ALLOY, AND A POLYURETHANE OR A COMPARABLE POLYMER COMBINATION. THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

1. THICKNESS: MINIMUM 30 MILS (ASTM D751)
2. UNLEADED GASOLINE VAPOR MAXIMUM TRANSMISSION RATE 0.40 OZ. PER SQUARE FOOT PER 24 HOURS (ASTM D814)
3. GRAB TENSILE STRENGTH: MINIMUM 550 LBS BOTH MACHINE AND CROSS DIRECTION (ASTM D751)
4. ELONGATION AT BREAK: 20% MINIMUM (ASTM D751)
5. TOUGHNESS: MINIMUM 11,000 POUNDS (GRAB TENSILE STRENGTH MULTIPLIED BY PERCENT ELONGATION)
6. PUNCTURE RESISTANCE: MINIMUM 750 LB (ASTM D751 BALL TIP)
7. COLD CRACK: PASS AT -30° FAHRENHEIT (ASTM D2136 1 INCH MANDREL, 4 HOURS)
8. FACTORY SEAMS: 2-INCH MINIMUM BONDED WIDTH
9. SHEAR: MINIMUM 320 LB (ASTM D751)

PROVIDE CERTIFIED TEST DATA FROM THE MANUFACTURER THATS DEMONSTRATES THE GEOMEMBRANE MEETS THE ABOVE REQUIREMENTS. OVERLAP THE GEOMEMBRANE A MINIMUM OF 18 INCHES AT THE ENDS AND SIDES. PLACE THE BEGINNING OF EACH NEW ROLL BENEATH THE END OF THE PREVIOUS ROLL TO PREVENT THE ADVANCING FILL FROM LIFTING THE GEOMEMBRANE. STAGGER END OVERLAPS AT LEAST 5 FEET FROM THE OTHER END OVERLAPS IN ADJACENT ROLLS.

DO NOT DRIVE, OPERATE CONSTRUCTION EQUIPMENT, OR PLACE CONCENTRATED LOADS DIRECTLY ON THE BLOCKS. REMOVE AND REPLACE BLOCKS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS AT NO EXPENSE TO THE DEPARTMENT. PLACE AT LEAST 12 INCHES OF FILL OVER THE TOP OF THE BLOCKS BEFORE BEGINNING COMPACTION.

THE DEPARTMENT WILL MEASURE THE QUANTITY OF EPS GEOFOAM FILL BY THE NUMBER OF CUBIC YARDS COMPLETED AND ACCEPTED IN PLACE. INCLUDE IN THE CONTRACT UNIT PRICE FOR EPS GEOFOAM FILL THE COST OF SITE PREPARATION, GRANULAR MATERIAL, CONNECTOR PLATES, GEOMEMBRANE WRAP, AND OTHER ITEMS WHICH DO NOT HAVE A SEPARATE PAY ITEM BUT ARE NECESSARY TO INSTALL THE EPS GEOFOAM FILL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

| ITEM | UNIT | DESCRIPTION |
|---|---|---|
| 203 | CY | ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS22 |
| 203 | CY | ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS29 |

### ESTIMATED QUANTITIES (WALL 5B)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| 203 | 98000 | | CY | ROADWAY, MISC.: EPS GEOFOAM FILL, TYPE EPS22 | 3 |
| 203 | 98000 | | CY | ROADWAY, MISC.: EPS GEOFOAM FILL, TYPE EPS29 | 3 |
| 503 | 21101 | | CY | UNCLASSIFIED EXCAVATION, AS PER PLAN | 12 |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W36x194 | 2 |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 524 | 94903 | | FT | DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN | |
| SPECIAL | 53051010 | | SF | RETAINING WALL, PRECAST LAGGING | 2, 13 |
| 601 | 21000 | | SY | CONCRETE SLOPE PROTECTION | |

GENERAL NOTES AND ESTIMATED QUANTITIES 2 OF 2
RETAINING WALL 5B

DESIGN AGENCY TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 13
SHEET P.918 | TOTAL P.1135

CUY-77-11.41 - PART 1

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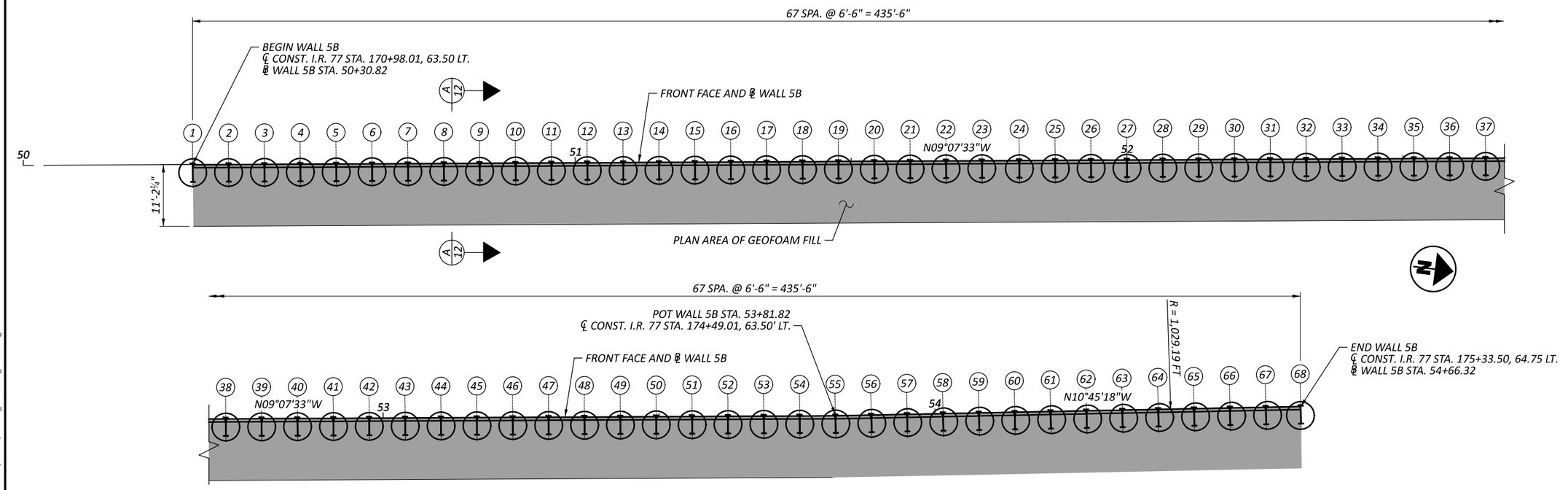
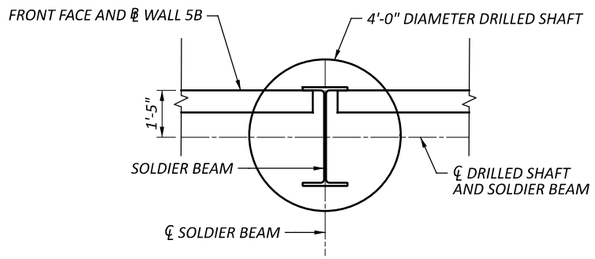



## GENERAL PLAN

*(DIMENSION ARE MEASURED ALONG FRONT FACE OF WALL)*




## DRILLED SHAFT LOCATION DETAIL

**LEGEND:**

- I - DENOTES DRILLED SHAFT WITH SOLDIER BEAM
- # - DRILLED SHAFT NUMBER

**NOTES:**

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/13 THRU 11/13.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 12/13.
3. FILL ALL VOIDS BETWEEN SOLDER BEAMS AND GEOFOAM WITH GRANULAR MATERIAL

# PILE LAYOUT AND GEOMETRY SCHEMATIC
# RETAINING WALL 5B

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 4 / 13 |
| SHEET / TOTAL | P.919 / P.1135 |

CUY-77-11.41 - PART 1

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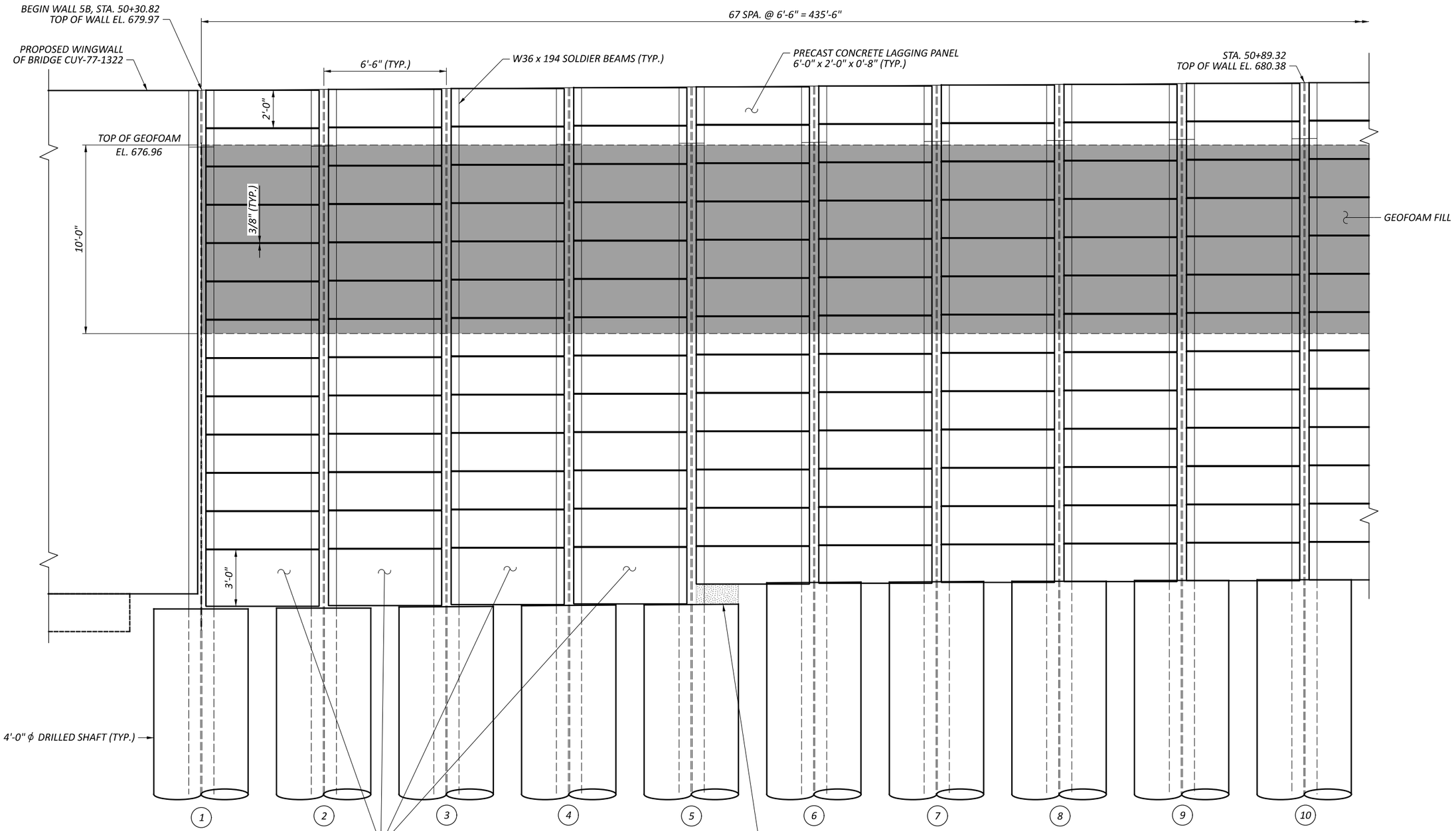


## PARTIAL ELEVATION
*(LOOKING AT BACK FACE OF WALL)*

**LEGEND:**

Ⓝ - DRILLED SHAFT NUMBER

**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 13 |
| SHEET | P.920 |
| TOTAL | P.1135 |

MODEL: Sheet Pile 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:13:36 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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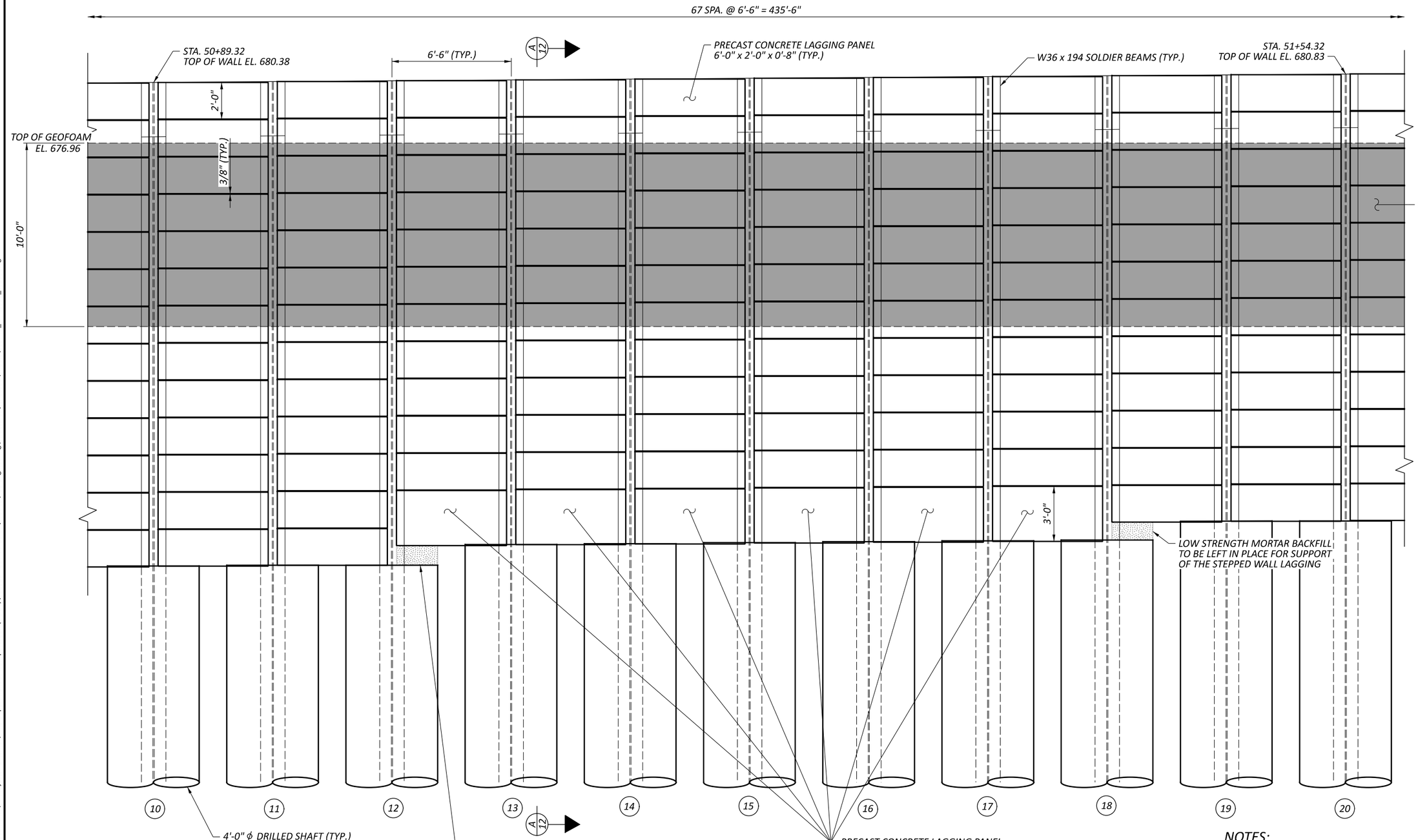



## PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

## LEGEND:

(#) - DRILLED SHAFT NUMBER

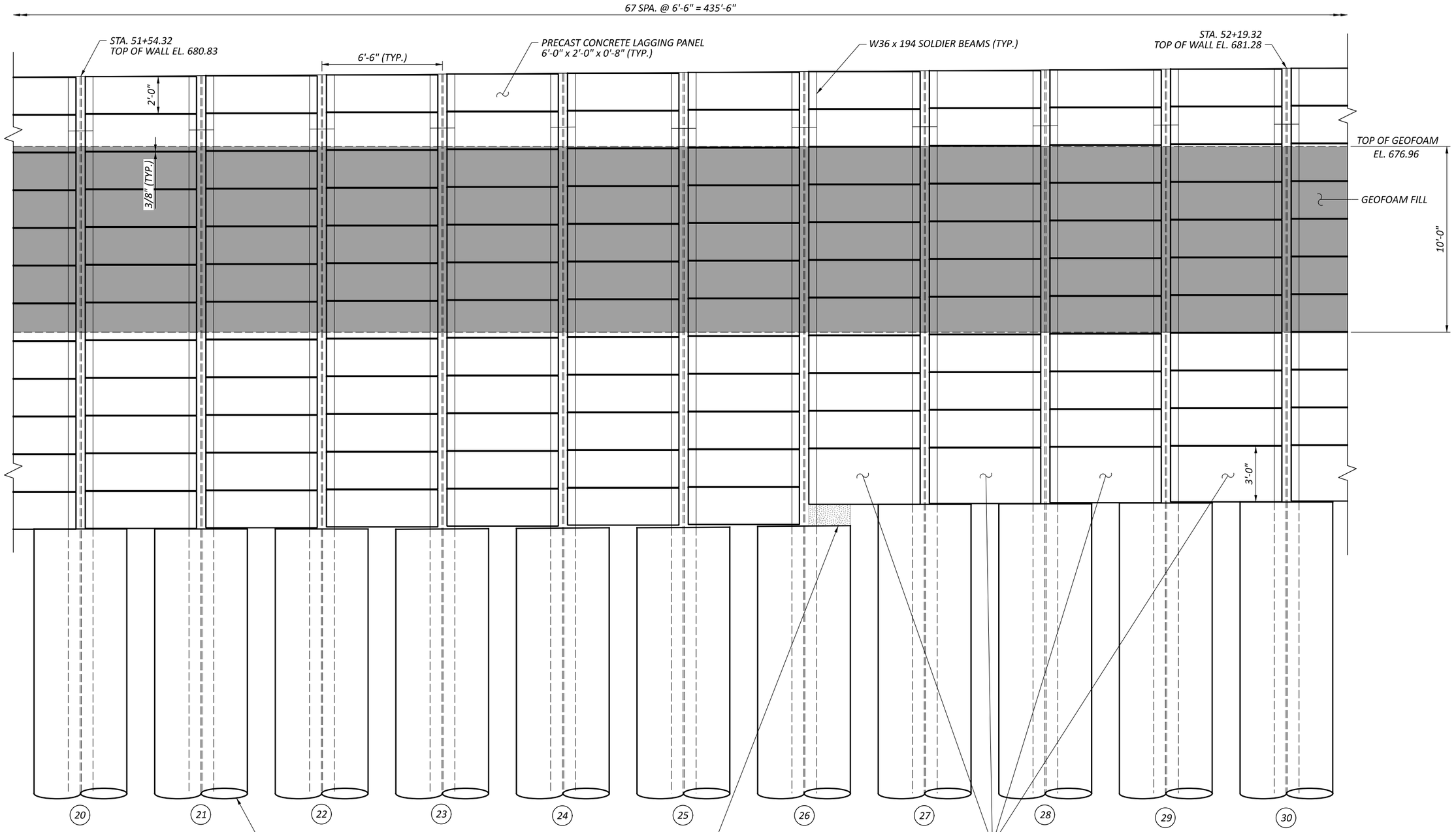
## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.
4. FOR SECTION A-A AND SECTION B-B, SEE SHEET 12/13.

# WALL ELEVATION
# RETAINING WALL 5B

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 6 / 13 |
| SHEET / TOTAL | P.921 / P.1135 |




## PARTIAL ELEVATION

*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

(#) - DRILLED SHAFT NUMBER

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 7 / 13 |
| SHEET / TOTAL | P.922 / P.1135 |

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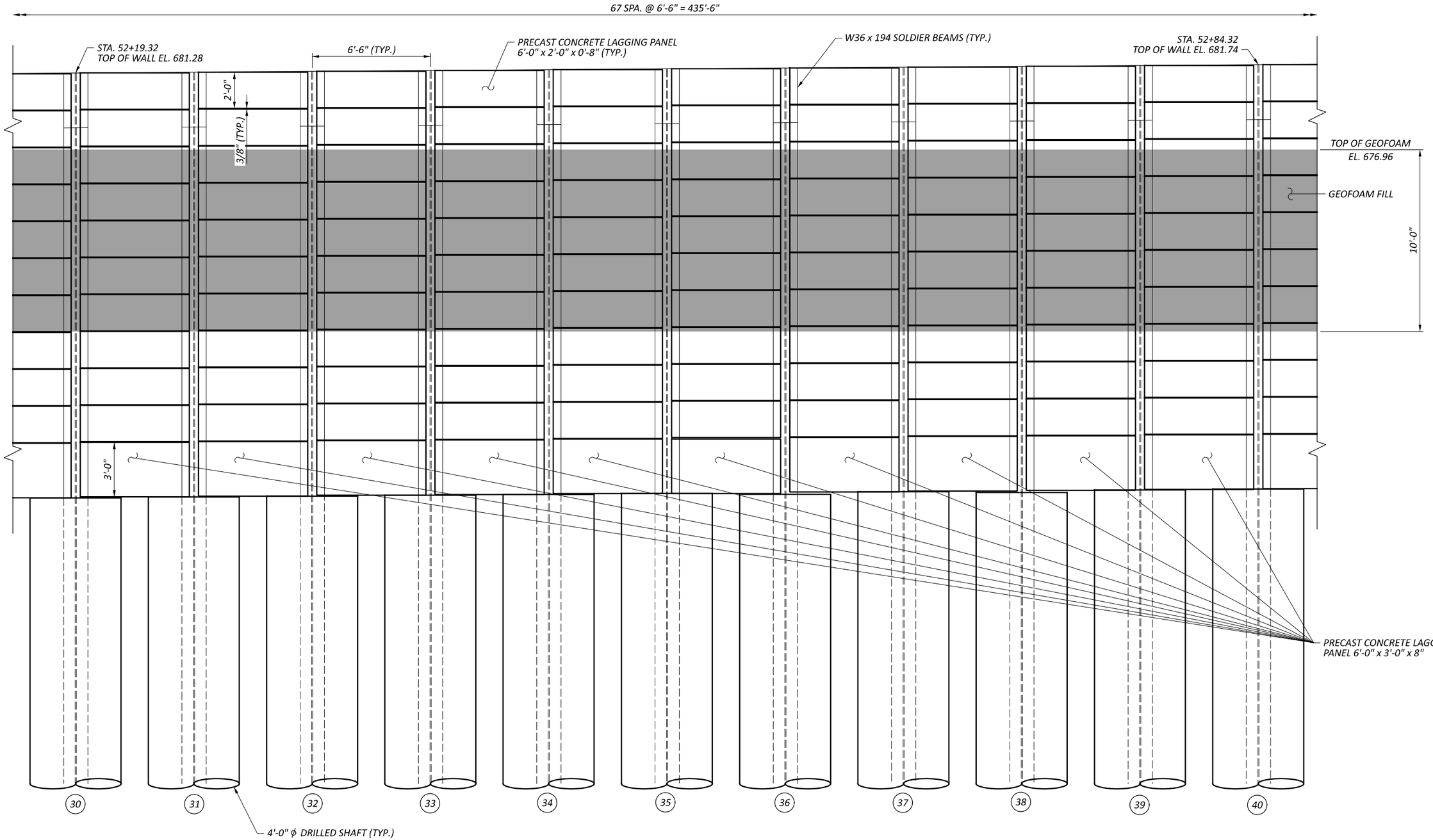
CUY-77-11.41 - PART 1




## PARTIAL ELEVATION
*(LOOKING AT BACK FACE OF WALL)*

### LEGEND:

(#) - DRILLED SHAFT NUMBER

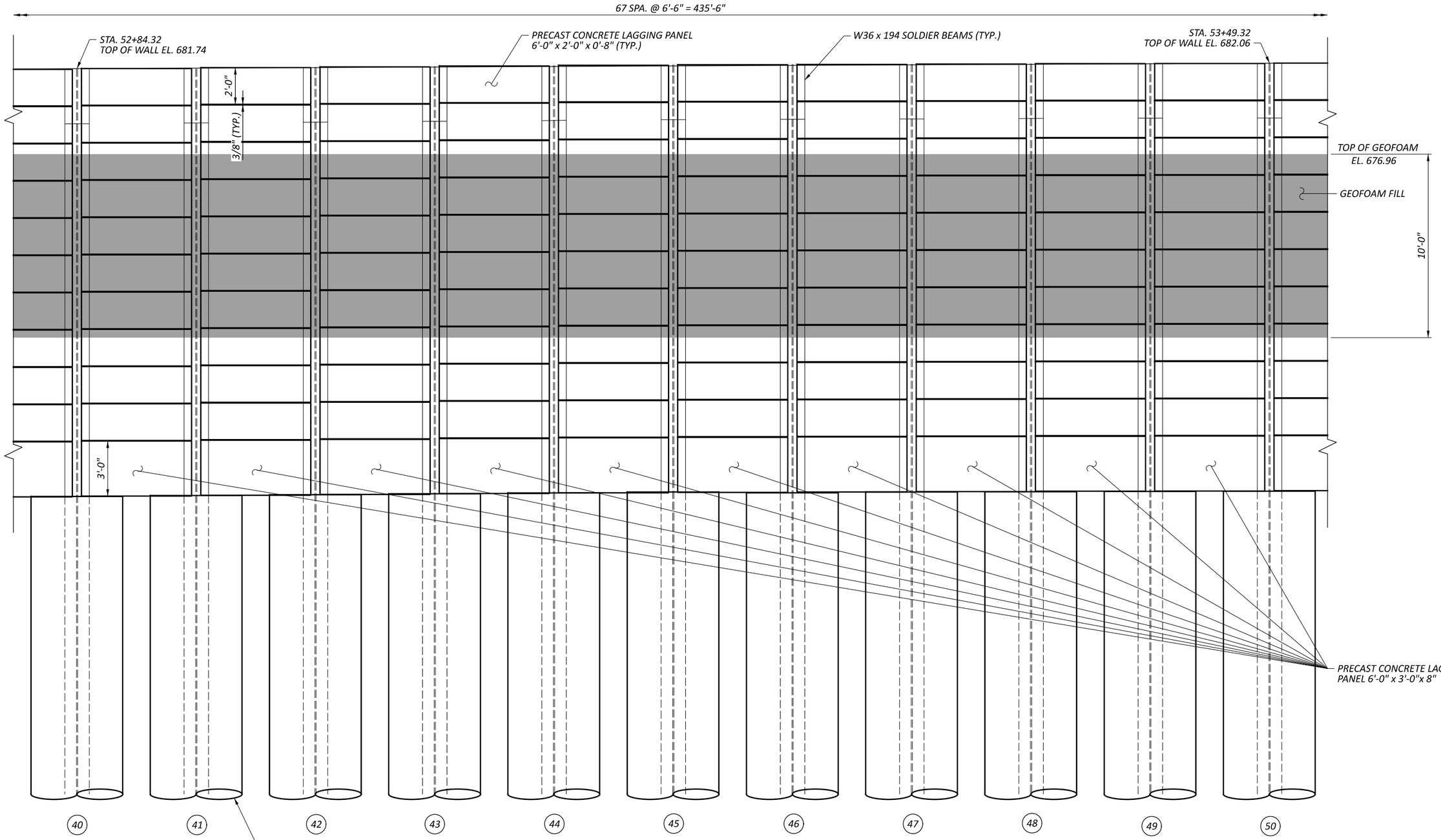
### NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 13 |
| SHEET / TOTAL | P.923 / P.1135 |




## PARTIAL ELEVATION
*(LOOKING AT BACK FACE OF WALL)*

**LEGEND:**

Ⓝ - DRILLED SHAFT NUMBER

**NOTES:**

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET 9 | TOTAL 13
SHEET P.924 | TOTAL P.1135

MODEL: Sheet Pile 5 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:13:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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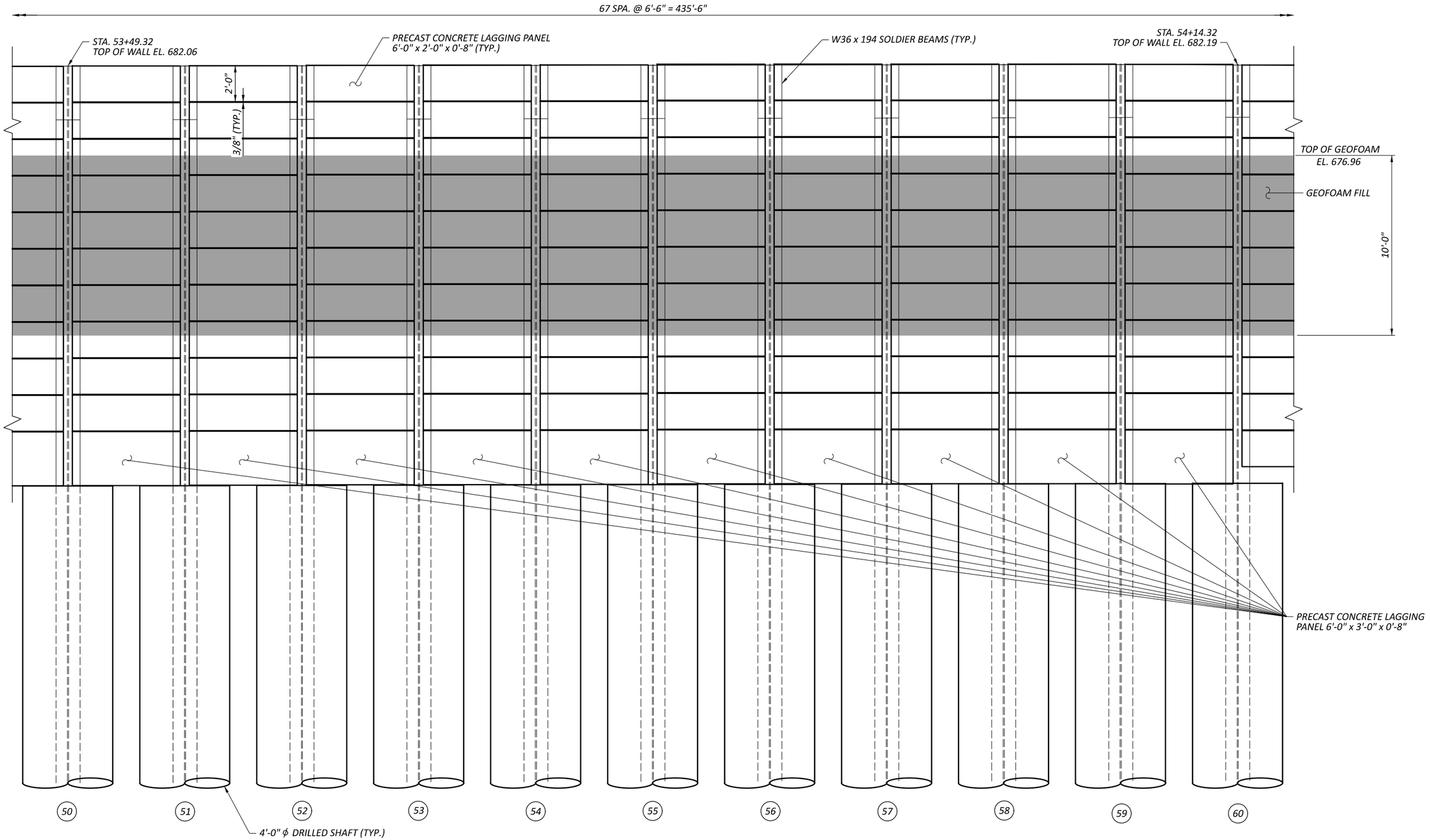



## PARTIAL ELEVATION
*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

(#) - DRILLED SHAFT NUMBER

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

DESIGN AGENCY
TRC

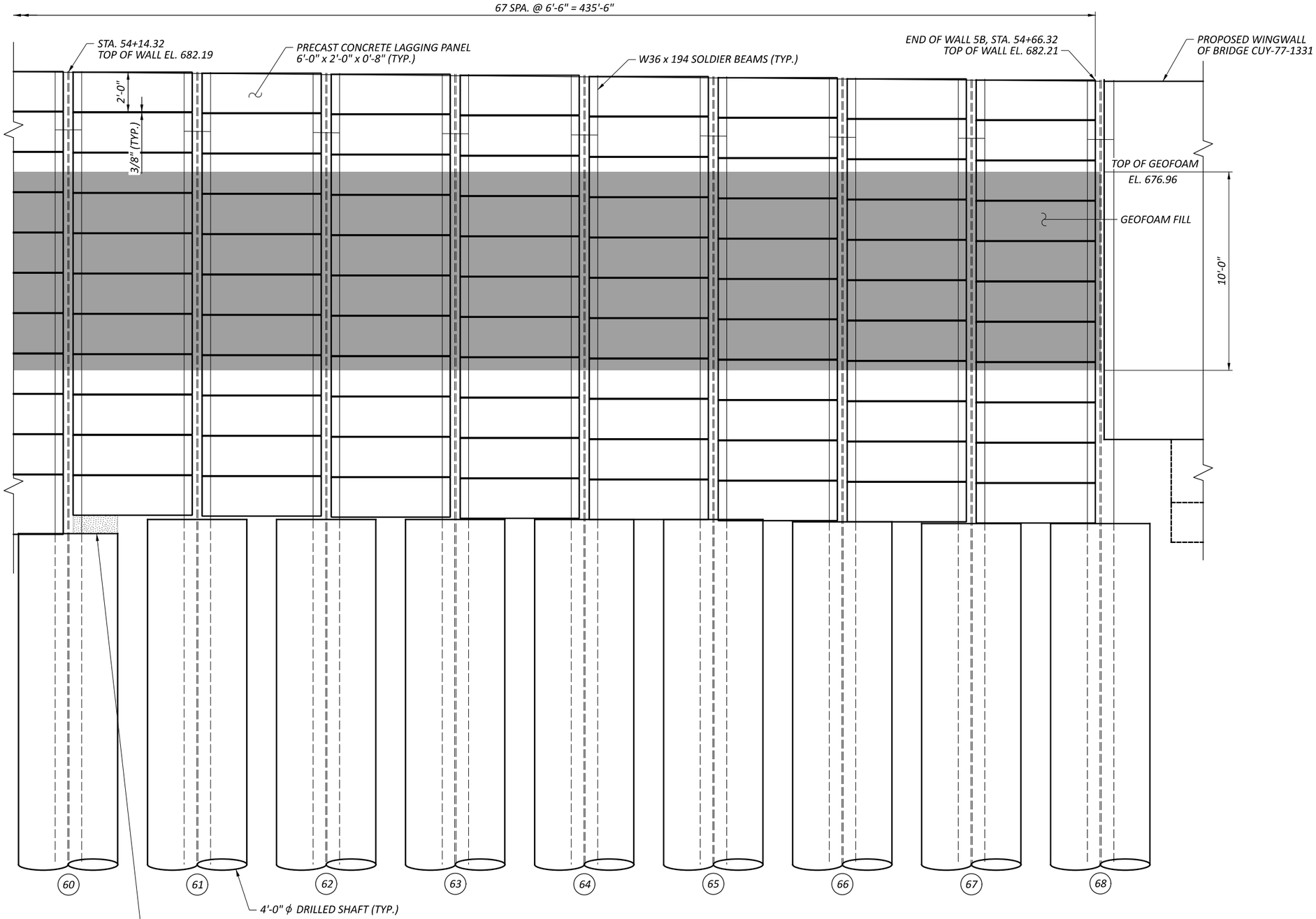
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 10 | TOTAL 13

SHEET P.925 | TOTAL P.1135




## PARTIAL ELEVATION
*(LOOKING AT BACK FACE OF WALL)*

## LEGEND:

Ⓝ - DRILLED SHAFT NUMBER

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

# WALL ELEVATION
# RETAINING WALL 5B

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 11 / 13 |
| SHEET / TOTAL | P.926 / P.1135 |

CUY-77-11.41 - PART 1

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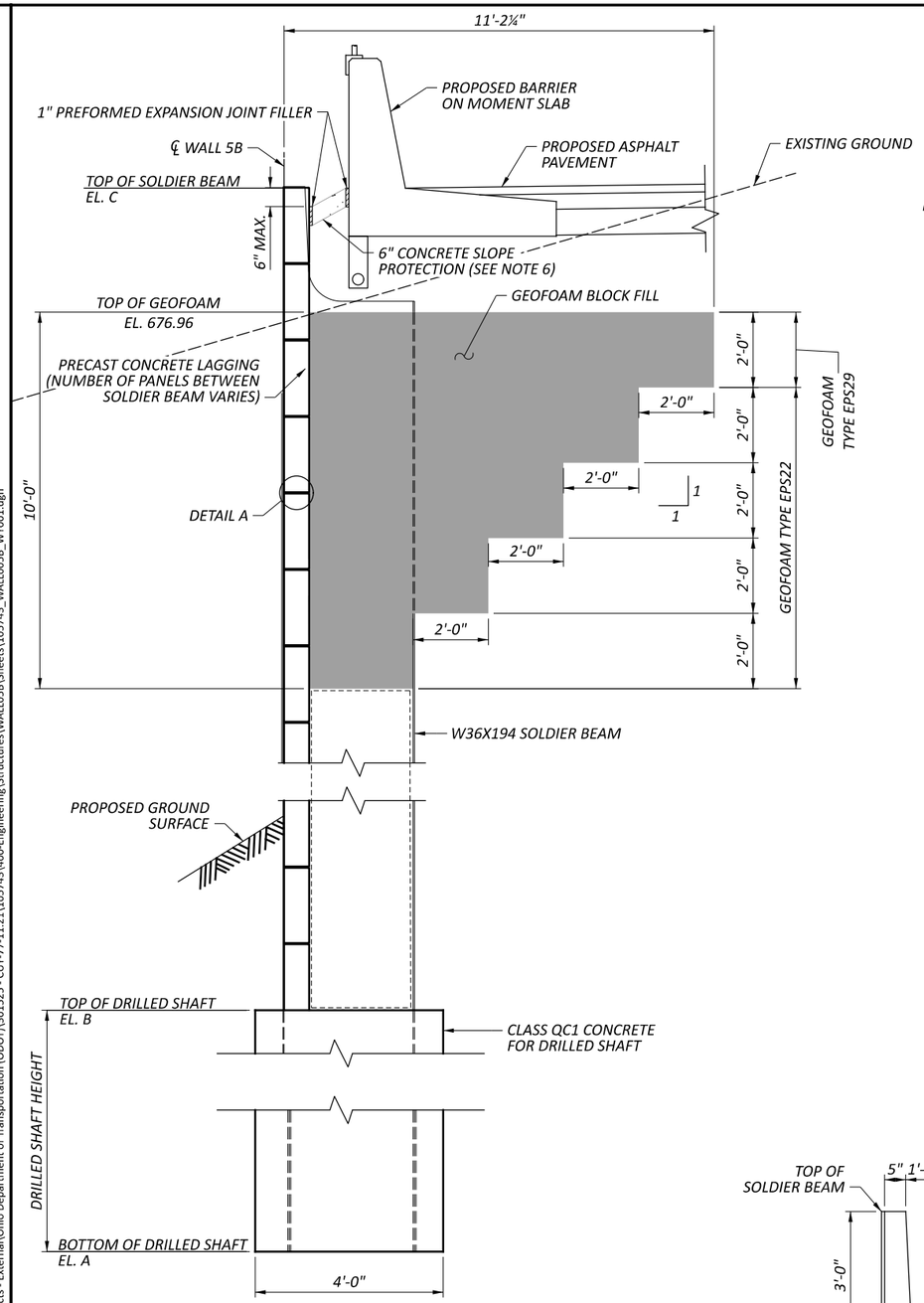
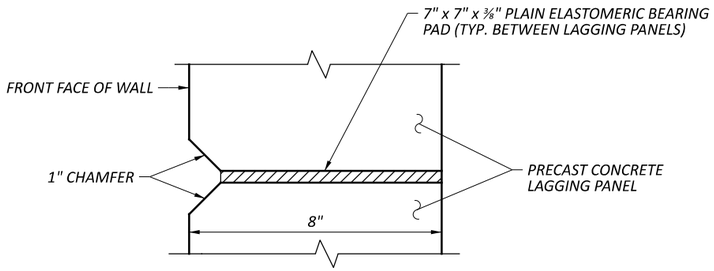
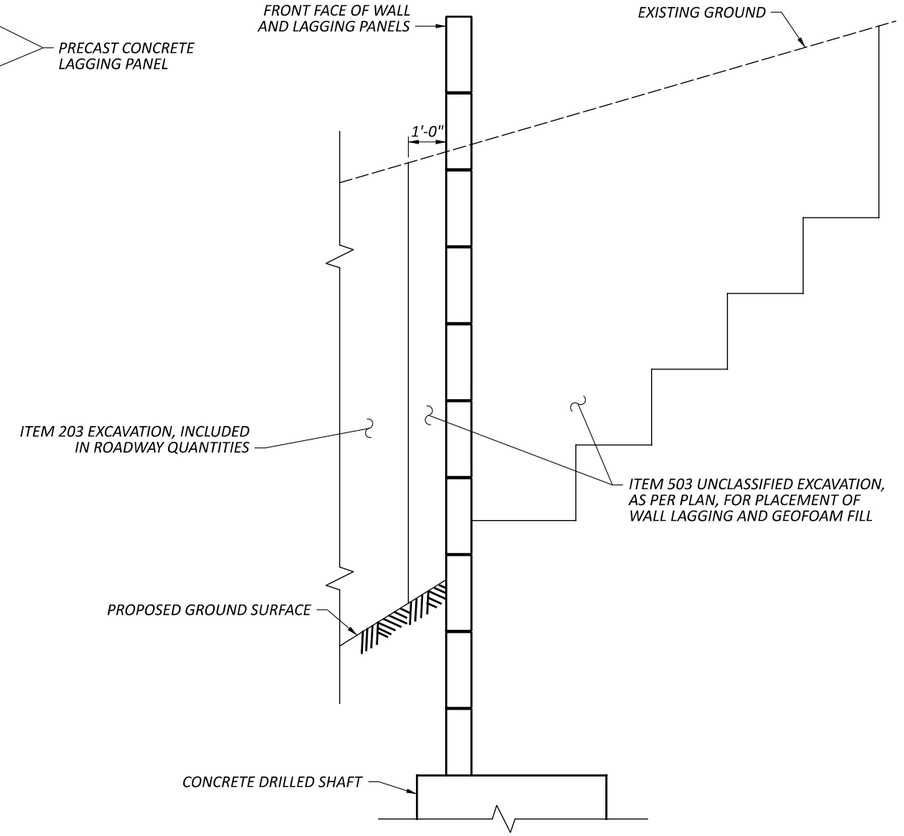


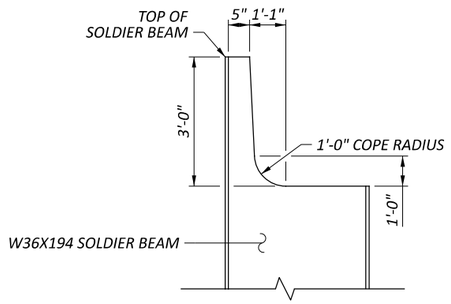

SECTION A-A




DETAIL A




EXCAVATION SCHEMATIC




SOLDIER BEAM COPING DETAIL

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASE AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 6 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. GEOFOAM BLOCKS APPROXIMATELY 2' X 2' AND 2' X 4' IN SIZE ARE SHOWN FOR ILLUSTRATION. THE CONTRACTOR MAY USE OTHER BLOCK SIZES BUT THE GEOFOAM PLACEMENT SHALL MEET THE LIMITS DIMENSIONED IN THE PLANS.
3. ALL PRECAST LAGGING PANELS SHALL BE SEATED ON TWO ELASTOMERIC BEARING PADS WITH ONE PLACED AT EACH END. THE COST FOR FABRICATION AND INSTALLATION OF THE BEARING PADS WILL BE CONSIDERED INCEDENTAL TO THE PLACEMENT OF PRECAST LAGGING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
5. FOR ADDITIONAL LAGGING PANEL DETAILS, SEE SHEET 13/13.
6. WHERE THE GAP BETWEEN WALL LAGGING AND MOMENT SLAB IS LESS THAN 2", ONLY PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED.
7. EMBANKMENT REMOVAL SHALL NOT PROCEED BELOW THE LOWEST ELEVATION OF GEOFOAM UNTIL EXCAVATION FOR THE GEOFOAM PLACEMENT IS COMPLETED BEHIND THE RETAINING WALL.
8. ANY REMOVAL OF THE MSE WALL REQUIRED FOR THE INSTALLATION OF WALL 5B WILL BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, BRIDGE NO. CUY-77-1331.

# WALL SECTIONS AND DETAILS
# RETAINING WALL 5B

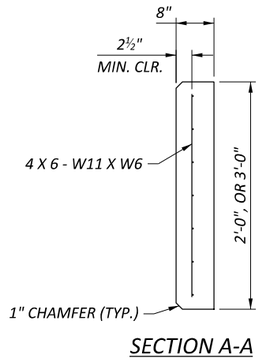
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 12 |
| TOTAL | 13 |
| SHEET | P.927 |
| TOTAL | P.1135 |

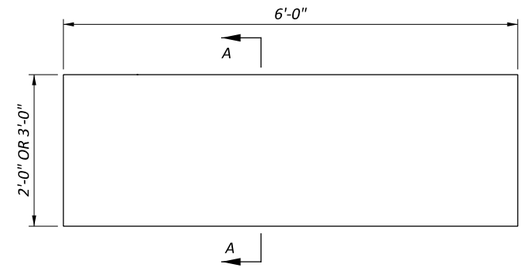
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:14:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05B\Sheets\105743_WALL005B_WY001.dgn

| DRILLED SHAFT NUMBER | WALL 5B STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | TOP OF SOLDIER BEAM ELEV. (EL. C) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE |
|---|---|---|---|---|---|---|---|---|
| 1 | 50+30.82 | 1.42 RT | 633.56 | 652.56 | 679.97 | 46.41 | 48.00 | W36X194 |
| 2 | 50+37.32 | 1.42 RT | 633.56 | 652.56 | 680.02 | 46.46 | 48.00 | W36X194 |
| 3 | 50+43.82 | 1.42 RT | 633.61 | 652.61 | 680.06 | 46.45 | 48.00 | W36X194 |
| 4 | 50+50.32 | 1.42 RT | 633.65 | 652.65 | 680.11 | 46.46 | 48.00 | W36X194 |
| 5 | 50+56.82 | 1.42 RT | 633.70 | 652.70 | 680.15 | 46.45 | 48.00 | W36X194 |
| 6 | 50+63.32 | 1.42 RT | 634.74 | 653.74 | 680.20 | 45.46 | 48.00 | W36X194 |
| 7 | 50+69.82 | 1.42 RT | 634.79 | 653.79 | 680.24 | 45.45 | 48.00 | W36X194 |
| 8 | 50+76.32 | 1.42 RT | 634.83 | 653.83 | 680.29 | 45.46 | 48.00 | W36X194 |
| 9 | 50+82.82 | 1.42 RT | 634.88 | 653.88 | 680.33 | 45.45 | 48.00 | W36X194 |
| 10 | 50+89.32 | 1.42 RT | 634.92 | 653.92 | 680.38 | 45.46 | 48.00 | W36X194 |
| 11 | 50+95.82 | 1.42 RT | 634.97 | 653.97 | 680.42 | 45.45 | 48.00 | W36X194 |
| 12 | 51+02.32 | 1.42 RT | 635.01 | 654.01 | 680.47 | 45.46 | 48.00 | W36X194 |
| 13 | 51+08.82 | 1.42 RT | 636.09 | 655.09 | 680.51 | 44.42 | 48.00 | W36X194 |
| 14 | 51+15.32 | 1.42 RT | 636.13 | 655.13 | 680.56 | 44.43 | 48.00 | W36X194 |
| 15 | 51+21.82 | 1.42 RT | 636.18 | 655.18 | 680.60 | 44.42 | 48.00 | W36X194 |
| 16 | 51+28.32 | 1.42 RT | 636.22 | 655.22 | 680.65 | 44.43 | 48.00 | W36X194 |
| 17 | 51+34.82 | 1.42 RT | 636.27 | 655.27 | 680.70 | 44.43 | 48.00 | W36X194 |
| 18 | 51+41.32 | 1.42 RT | 636.32 | 655.32 | 680.74 | 44.42 | 48.00 | W36X194 |
| 19 | 51+47.82 | 1.42 RT | 637.36 | 656.36 | 680.79 | 43.43 | 48.00 | W36X194 |
| 20 | 51+54.32 | 1.42 RT | 637.41 | 656.41 | 680.83 | 43.42 | 48.00 | W36X194 |
| 21 | 51+60.82 | 1.42 RT | 637.45 | 656.45 | 680.88 | 43.43 | 48.00 | W36X194 |
| 22 | 51+67.32 | 1.42 RT | 637.50 | 656.50 | 680.92 | 43.42 | 48.00 | W36X194 |
| 23 | 51+73.82 | 1.42 RT | 637.54 | 656.54 | 680.97 | 43.43 | 48.00 | W36X194 |
| 24 | 51+80.32 | 1.42 RT | 637.59 | 656.59 | 681.01 | 43.42 | 48.00 | W36X194 |
| 25 | 51+86.82 | 1.42 RT | 637.63 | 656.63 | 681.06 | 43.43 | 48.00 | W36X194 |
| 26 | 51+93.32 | 1.42 RT | 637.68 | 656.68 | 681.10 | 43.42 | 48.00 | W36X194 |
| 27 | 51+99.82 | 1.42 RT | 638.75 | 657.75 | 681.15 | 42.40 | 48.00 | W36X194 |
| 28 | 52+06.32 | 1.42 RT | 638.80 | 657.80 | 681.19 | 42.39 | 48.00 | W36X194 |
| 29 | 52+12.82 | 1.42 RT | 638.84 | 657.84 | 681.24 | 42.40 | 48.00 | W36X194 |
| 30 | 52+19.32 | 1.42 RT | 638.89 | 657.89 | 681.28 | 42.39 | 48.00 | W36X194 |
| 31 | 52+25.82 | 1.42 RT | 638.93 | 657.93 | 681.33 | 42.40 | 48.00 | W36X194 |
| 32 | 52+32.32 | 1.42 RT | 638.98 | 657.98 | 681.37 | 42.39 | 48.00 | W36X194 |
| 33 | 52+38.82 | 1.42 RT | 639.02 | 658.02 | 681.42 | 42.40 | 48.00 | W36X194 |
| 34 | 52+45.32 | 1.42 RT | 639.07 | 658.07 | 681.47 | 42.40 | 48.00 | W36X194 |
| 35 | 52+51.82 | 1.42 RT | 639.12 | 658.12 | 681.51 | 42.39 | 48.00 | W36X194 |
| 36 | 52+58.32 | 1.42 RT | 639.16 | 658.16 | 681.56 | 42.40 | 48.00 | W36X194 |
| 37 | 52+64.82 | 1.42 RT | 639.21 | 658.21 | 681.60 | 42.39 | 48.00 | W36X194 |
| 38 | 52+71.32 | 1.42 RT | 639.25 | 658.25 | 681.65 | 42.40 | 48.00 | W36X194 |
| 39 | 52+77.82 | 1.42 RT | 639.30 | 658.30 | 681.69 | 42.39 | 48.00 | W36X194 |
| 40 | 52+84.32 | 1.42 RT | 639.34 | 658.34 | 681.74 | 42.40 | 48.00 | W36X194 |
| 41 | 52+90.82 | 1.42 RT | 639.39 | 658.39 | 681.78 | 42.39 | 48.00 | W36X194 |
| 42 | 52+97.32 | 1.42 RT | 639.43 | 658.43 | 681.83 | 42.40 | 48.00 | W36X194 |
| 43 | 53+03.82 | 1.42 RT | 639.48 | 658.48 | 681.87 | 42.39 | 48.00 | W36X194 |
| 44 | 53+10.32 | 1.42 RT | 639.52 | 658.52 | 681.92 | 42.40 | 48.00 | W36X194 |
| 45 | 53+16.82 | 1.42 RT | 639.57 | 658.57 | 681.96 | 42.39 | 48.00 | W36X194 |
| 46 | 53+23.32 | 1.42 RT | 639.61 | 658.61 | 681.99 | 42.38 | 48.00 | W36X194 |
| 47 | 53+29.82 | 1.42 RT | 639.64 | 658.64 | 682.00 | 42.36 | 48.00 | W36X194 |
| 48 | 53+36.32 | 1.42 RT | 639.65 | 658.65 | 682.02 | 42.37 | 48.00 | W36X194 |
| 49 | 53+42.82 | 1.42 RT | 639.67 | 658.67 | 682.04 | 42.37 | 48.00 | W36X194 |
| 50 | 53+49.32 | 1.42 RT | 639.69 | 658.69 | 682.06 | 42.37 | 48.00 | W36X194 |
| 51 | 53+55.82 | 1.42 RT | 639.71 | 658.71 | 682.07 | 42.36 | 48.00 | W36X194 |
| 52 | 53+62.32 | 1.42 RT | 639.72 | 658.72 | 682.09 | 42.37 | 48.00 | W36X194 |
| 53 | 53+68.82 | 1.42 RT | 639.74 | 658.74 | 682.11 | 42.37 | 48.00 | W36X194 |
| 54 | 53+75.32 | 1.42 RT | 639.76 | 658.76 | 682.12 | 42.36 | 48.00 | W36X194 |
| 55 | 53+81.82 | 1.42 RT | 639.77 | 658.77 | 682.14 | 42.37 | 48.00 | W36X194 |
| 56 | 53+88.32 | 1.42 RT | 639.79 | 658.79 | 682.15 | 42.36 | 48.00 | W36X194 |
| 57 | 53+94.82 | 1.42 RT | 639.80 | 658.80 | 682.16 | 42.36 | 48.00 | W36X194 |
| 58 | 54+01.32 | 1.42 RT | 639.81 | 658.81 | 682.17 | 42.36 | 48.00 | W36X194 |
| 59 | 54+07.82 | 1.42 RT | 639.82 | 658.82 | 682.18 | 42.36 | 48.00 | W36X194 |
| 60 | 54+14.32 | 1.42 RT | 639.83 | 658.83 | 682.19 | 42.36 | 48.00 | W36X194 |
| 61 | 54+20.82 | 1.42 RT | 640.84 | 659.84 | 682.20 | 41.36 | 48.00 | W36X194 |
| 62 | 54+27.32 | 1.42 RT | 640.85 | 659.85 | 682.20 | 41.35 | 48.00 | W36X194 |
| 63 | 54+33.82 | 1.42 RT | 640.85 | 659.85 | 682.21 | 41.36 | 48.00 | W36X194 |
| 64 | 54+40.32 | 1.42 RT | 640.86 | 659.86 | 682.21 | 41.35 | 48.00 | W36X194 |
| 65 | 54+46.82 | 1.42 RT | 640.86 | 659.86 | 682.21 | 41.35 | 48.00 | W36X194 |
| 66 | 54+53.32 | 1.42 RT | 640.86 | 659.86 | 682.21 | 41.35 | 48.00 | W36X194 |
| 67 | 54+59.82 | 1.42 RT | 640.86 | 659.86 | 682.21 | 41.35 | 48.00 | W36X194 |
| 68 | 54+66.32 | 1.42 RT | 640.86 | 659.86 | 682.21 | 41.35 | 48.00 | W36X194 |




SECTION A-A




LAGGING PANEL ELEVATIONS

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
2. FOR WALL ELEVATIONS, SEE SHEETS 5/13 THRU 11/13.
3. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 12/13.

# LAGGING PANEL DETAILS AND SOLDIER PILE DIMENSION TABLE RETAINING WALL 5B

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 13 | TOTAL 13

SHEET P.928 | TOTAL P.1135

CUY-77-11.41 - PART 1

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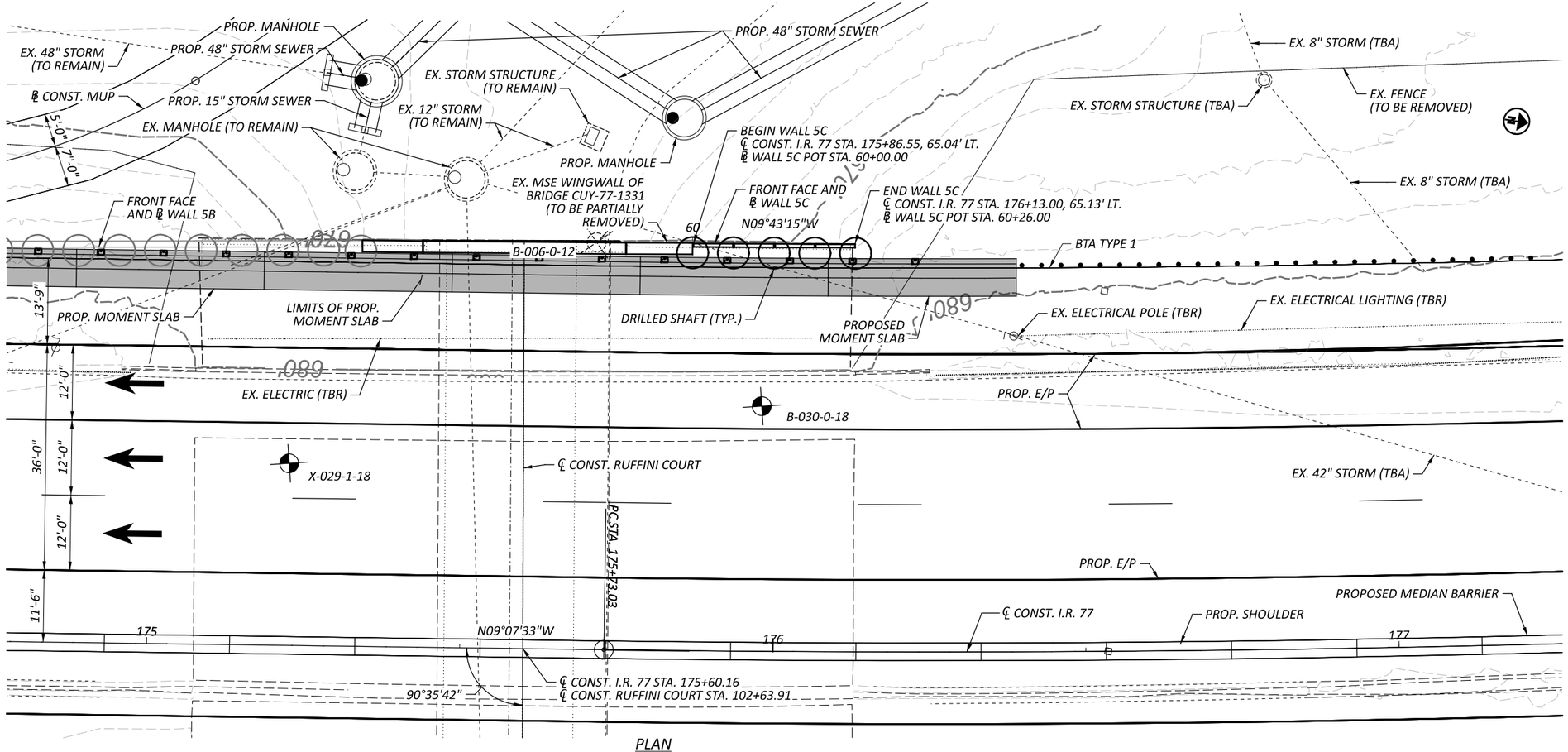
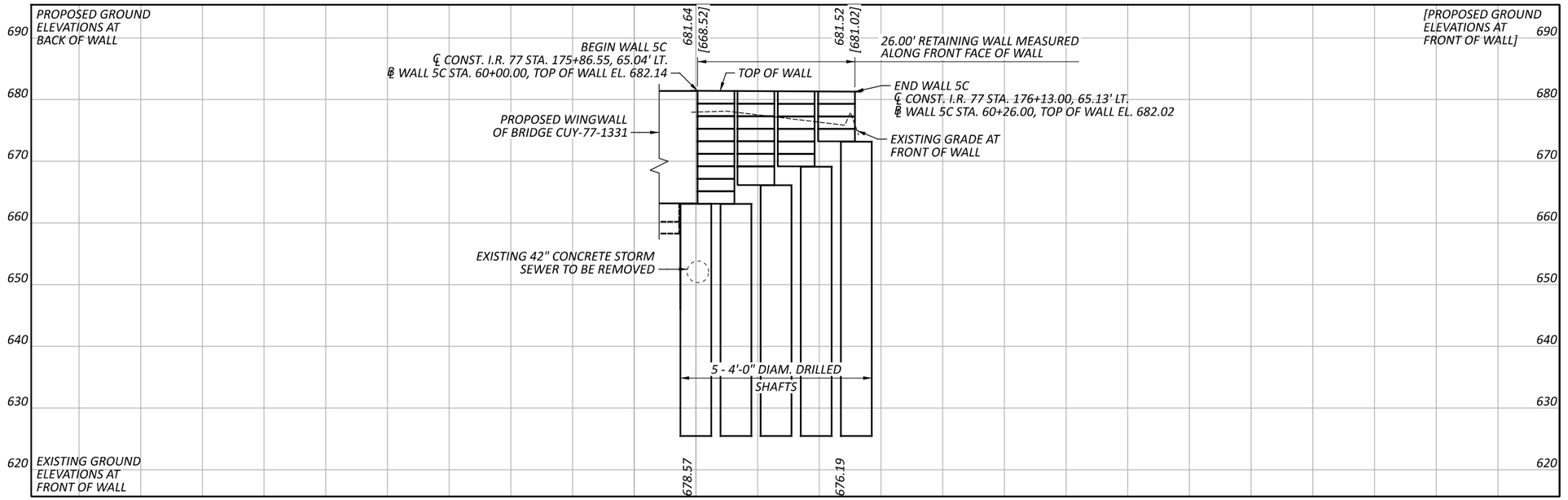



PLAN




ELEVATION
(STATIONING ALONG ℄ WALL 5C)

## CURVE DATA I.R. 77

P.I. = STA. 179+84.25
Δ = 12°17'21" LT.
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

# SITE PLAN
# RETAINING WALL 5C

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 4
SHEET: P.929 TOTAL: P.1135

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:14:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05C\Sheets\105743_WALL05C_WP001.dgn

## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN PARAMETERS:

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

## DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED WELDED WIRE REINFORCEMENT - YIELD STRENGTH 70 KSI (PRECAST LAGGING)

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33X201

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES. THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILES FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES

ALL SURFACES OF SOLDIER PILES SHALL BE SHOP PAINTED WITH A PRIME COAT FROM A DEPTH OF 3 FEET BELOW TOP OF DRILLED SHAFT TO THE TOP OF PILE. AFTER ALL LAGGING PANELS ARE INSTALLED, THE EXPOSED FLANGE SHALL BE PAINTED WITH A FINISH COAT THAT HAS A COLOR SIMILAR TO THE SEALANT ON THE CONCRETE LAGGING. ALL LABOR AND MATERIALS REQUIRED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE STEEL SOLDIER PILES.

## ITEM SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING:

THIS WORK CONSISTS OF FURNISHING AND PLACING PRECAST REINFORCED CONCRETE PANELS BETWEEN THE SOLDIER PILES TO FUNCTION AS LAGGING FOR THE RETAINING WALL. PROVIDE PRECAST CONCRETE LAGGING FROM A PRECAST CONCRETE MANUFACTURER CERTIFIED ACCORDING TO SUPPLEMENT 1073. PROVIDE CLASS QC 1 CONCRETE ACCORDING TO C&MS 499. PROVIDE EPOXY COATED REINFORCING STEEL ACCORDING TO C&MS 709.00. IN LIEU OF EPOXY COATING, A CORROSION INHIBITING CONCRETE ADMIXTURE MAY BE USED AT THE SPECIFIED DOSAGE RATE. A QUALIFIED PRODUCT LIST OF CORROSION INHIBITING ADMIXTURES IS ON FILE AT THE LABORATORY. MANUFACTURERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR MAY AFFECT THE STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE MANUFACTURER'S CHOICE TO USE ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING ALL DESIGN REQUIREMENTS. DO NOT ALLOW THE DIMENSIONS OF THE LAGGING OR LOCATION OF THE REINFORCING STEEL TO VARY BY MORE THAN 1/4-INCH. CAST THREADED INSERTS INTO THE TOP OF EACH PANEL FOR LIFTING AND PLACING.

FILL ALL CAVITIES PRODUCED BY FORM TIES AND OTHER SINGLE DEFECTS OR DEFECTED AREAS AND WITH A PREQUALIFIED TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.02 AND 843.06. LIKEWISE FILL CAVITIES FOR LIFTING INSERTS IN THE TOP ROW OF PRECAST CONCRETE LAGGING PANELS. PROVIDE A BROOM/BRUSH FINISH TO ALL TROWELABLE MORTAR PATCHES. CURE THE TROWELABLE MORTAR ACCORDING TO SUPPLEMENTAL SPECIFICATION 843.07. AIR DRY FOR AT LEAST 10 DAYS AFTER COMPLETION OF THE MANUFACTURER'S RECOMMENDED CURE TIME FOR TROWELABLE MORTAR. BRUSH ABRASIVE BLAST, FOLLOWED BY AIR BROOMING OR POWER SWEEPING, TO REMOVE DUST AND SAND FROM THE SURFACE AND OPENED PORES.

FINISH THE FACES OF THE PRECAST CONCRETE LAGGING PANELS THAT WILL NOT BE EXPOSED TO A UNIFORM SURFACE, FREE OF OPEN POCKETS OF AGGREGATE. FINISH THE EXPOSED FACE OF THE PANELS TO A SMOOTH SURFACE. SEAL THE FRONT (EXPOSED) FACE, SIDES, TOP, BOTTOM, AND 3" MINIMUM OF THE BACK FACE OF THE CONCRETE PANEL WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). THE COLOR OF THE URETHANE SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). COST OF SEALING SHALL BE INCIDENTAL AND INCLUDED WITH THE PRECAST CONCRETE LAGGING PANELS FOR PAYMENT.

PERMANENTLY MARK EACH PRECAST CONCRETE LAGGING PANEL TO INDICATE WHICH FACE WILL BE PLACED AGAINST THE SOIL. PLACE THE PANEL BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST ONE INCH MORE THAN THE CONCRETE COVER OVER THE REINFORCING STEEL AT BOTH ENDS OF THE LAGGING.

HANDLE, STORE AND SHIP THE PRECAST CONCRETE LAGGING PANELS TO AVOID CHIPPING, CRACKING AND FRACTURING THE PANELS. SUPPORT THE PANELS ON FIRM BLOCKING WHILE STORING AND SHIPPING. DO NOT SHIP PANELS UNTIL CONCRETE HAS ATTAINED A MINIMUM 3000 PSI COMPRESSIVE STRENGTH. SUBMIT SHIPMENT DOCUMENTATION TO THE ENGINEER AS THE PANELS ARE DELIVERED TO THE PROJECT, INCLUDING THE PRECASTER'S RECORD OF FINAL INSPECTION, THE MEASUREMENTS AND TOLERANCES, STRENGTH, AND DIMENSIONS OF EACH PANEL, ALONG WITH THE TE-24 SHIPPING DOCUMENT.

INSPECT ALL PRECAST CONCRETE LAGGING PANELS AND REJECT PANELS HAVING ANY OF THE FOLLOWING:

1. DEFECTS THAT INDICATE IMPERFECT MOLDING.
2. DEFECTS THAT INDICATE HONEYCOMBED OR OPEN TEXTURE CONCRETE.
3. DEFECTS IN THE PHYSICAL CHARACTERISTICS OF THE CONCRETE, OR DAMAGE TO THE SEALING OF CONCRETE SURFACE TREATMENT OR TO AESTHETIC SURFACE TREATMENTS.
4. CONCRETE CHIPS OR SPALLS THAT ARE LARGER THAN 4 INCHES WIDE OR 2 INCHES DEEP. REPAIR ALL CHIPS AND SPALLS THAT ARE SMALLER.
5. STAINED FORM FACES DUE TO FORM OIL, CURING, OR OTHER CONTAMINANTS.
6. SIGNS OF AGGREGATE SEGREGATION.
7. CRACKS WIDER THAN 0.01 INCHES, PENETRATING MORE THAN 1 INCH OR LONGER THAN 20 PERCENT OF THE LENGTH OF THE FACE CONTAINING THE CRACK. REPAIR ALL CRACKS THAT ARE SMALLER.
8. PANELS THAT DO NOT MEET THE SPECIFIED DIMENSIONAL TOLERANCES.
9. UNUSABLE LIFTING INSERTS.
10. EXPOSED REINFORCING STEEL.
11. INSUFFICIENT CONCRETE COMPRESSIVE STRENGTH.

EITHER REPLACE DAMAGED PRECAST CONCRETE LAGGING PANELS OR DOCUMENT THE DAMAGE AND PROPOSE TO THE ENGINEER A REPAIR METHOD FOR THE DAMAGED PANEL; PERFORM REPAIRS WITH THE ACCEPTANCE OF THE ENGINEER. PROVIDE ACCEPTABLE REPLACEMENT PANELS FOR ANY THAT ARE REJECTED. WHEN INSTALLING THE PRECAST CONCRETE LAGGING PANELS, PLACE HARDWOOD WEDGES NEAR THE TOP AND BOTTOM N EACH SIDE TO HOLD THE LAGGING PANELS AGAINST THE FRONT INSIDE FLANGE OF THE STEEL PILES.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO FABRICATE, TRANSPORT, AND INSTALL THE PRECAST CONCRETE LAGGING PANELS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM 530 SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING.

## ITEM 524 - DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).
REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

## ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
℄ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
℄ - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
WWR - WELDED WIRE REINFORCEMENT

### ESTIMATED QUANTITIES (WALL 5C)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W33X201 | 2 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 524 | 94903 | | FT | DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN | |
| | | | | | |
| SPECIAL | 53051010 | | SF | RETAINING WALL, PRECAST CONCRETE LAGGING | 2, 4 |
| | | | | | |
| 601 | 21000 | | SY | CONCRETE SLOPE PROTECTION | |
| | | | | | |



DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 4

SHEET P.930 | TOTAL P.1135

CUY-77-11.41 - PART 1

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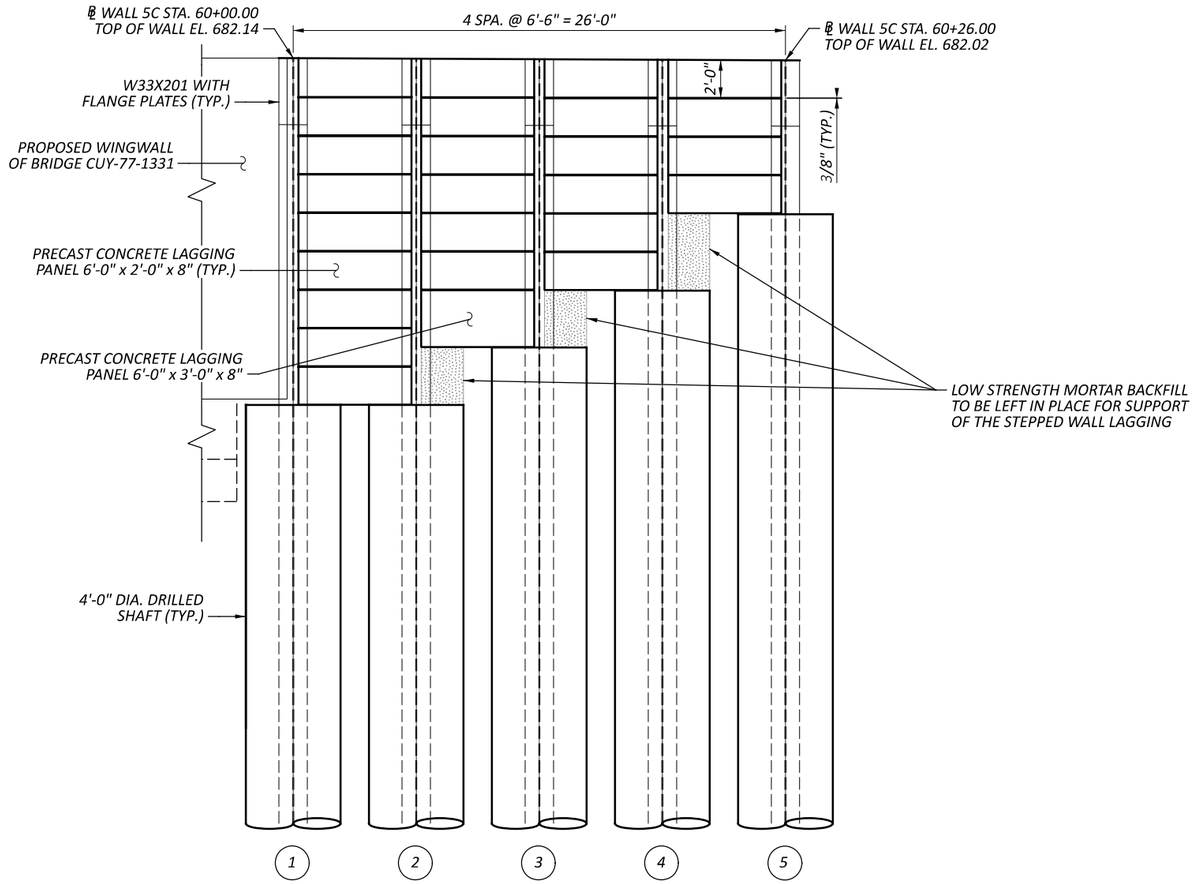
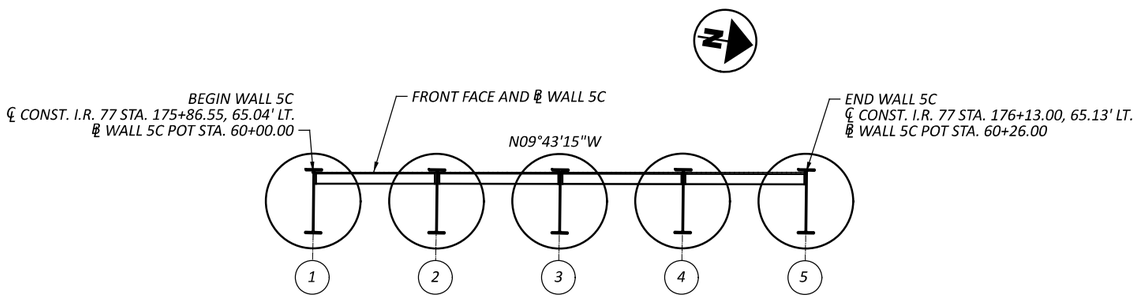
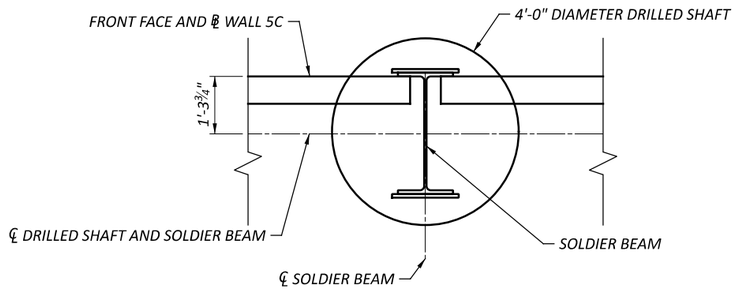



## ELEVATION
(LOOKING AT BACK FACE OF WALL)




## GENERAL PLAN




## DRILLED SHAFT LOCATION DETAIL

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 4/4.
3. ALL LAGGING PANELS ARE 6'-0" x 2'-0" UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 4/4.

## LEGEND:

I - DENOTES DRILLED SHAFT WITH SOLDIER BEAM

# - DRILLED SHAFT NUMBER

# PILE LAYOUT AND WALL ELEVATION
# RETAINING WALL 5C

CUY-77-11.41 - PART 1

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DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 3 / 4 |
| SHEET / TOTAL | P.931 / P.1135 |

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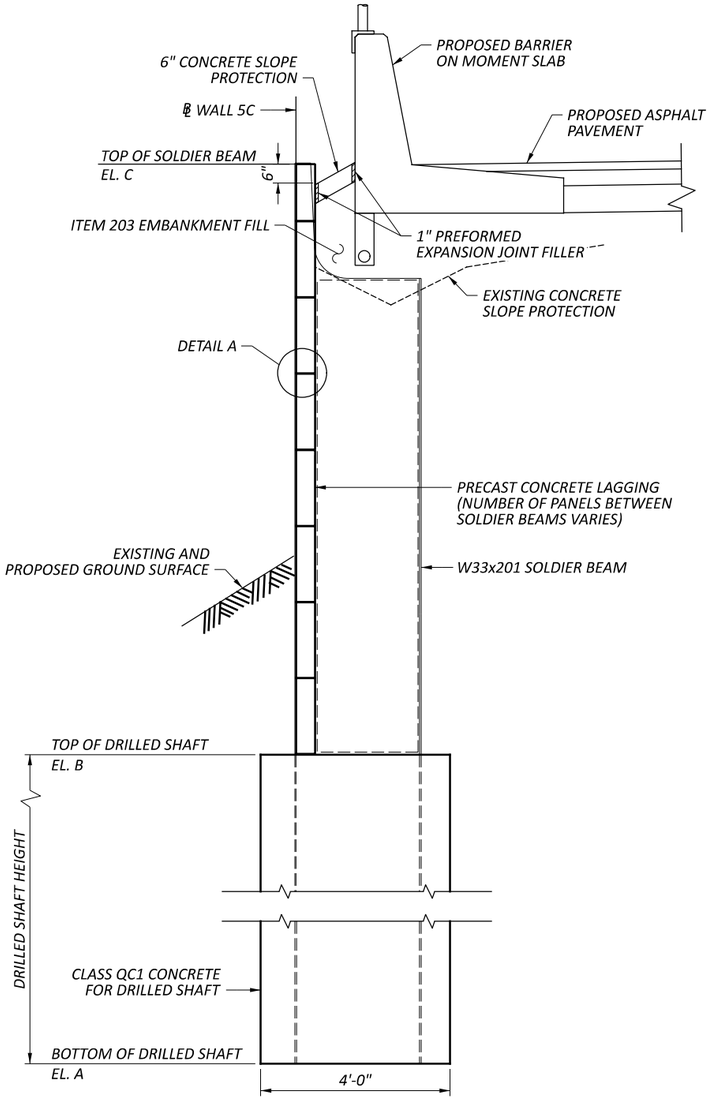
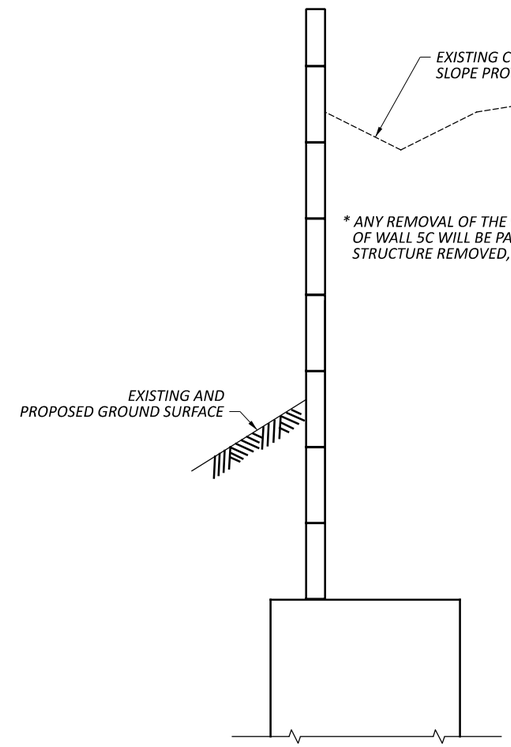
CUY-77-11.41 - PART 1

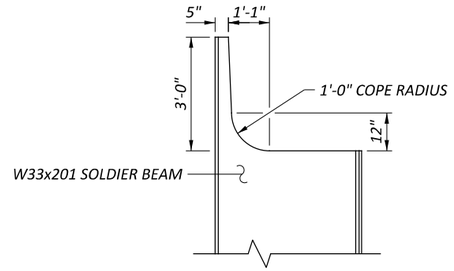



WALL 5C TYPICAL SECTION

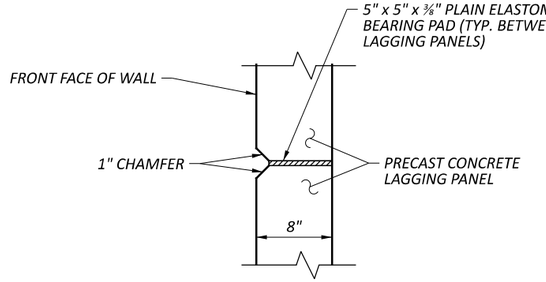



EXCAVATION SCHEMATIC

* ANY REMOVAL OF THE MSE WALL REQUIRED FOR THE INSTALLATION OF WALL 5C WILL BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, BRIDGE NO. CUY-77-1331.




SOLDIER BEAM COPING DETAIL

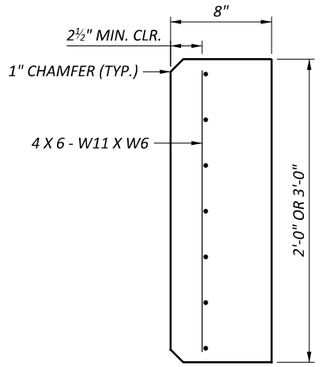



DETAIL A

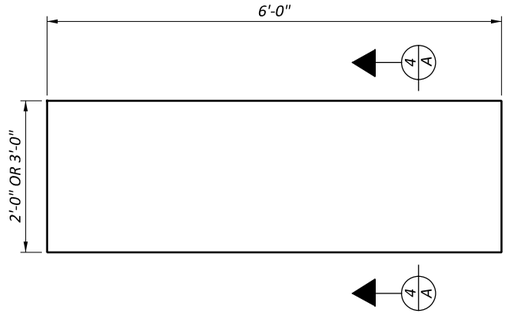
## NOTES:

1. AT THE CONTRACTOR'S OPINION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 6 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. ALL PRECAST LAGGING PANELS SHALL BE SEATED ON TWO ELASTOMERIC BEARING PADS WITH ONE PLACED AT EACH END. THE COST FOR FABRICATION AND INSTALLATION OF THE BEARING PADS WILL BE CONSIDERED INCEDENTAL TO THE PLACEMENT OF PRECAST LAGGING.
3. FOR DRILLED SHAFT LAYOUT PLAN AND WALL ELEVATION, SEE SHEET 3/4.
4. FOR INFORMATION ON REMOVAL OF THE EXISTING MSE WALL, SLOPE PROTECTION, AND EXCAVATION, SEE PLANS FOR BRIDGE CUY-77-1331.

| DRILLED SHAFT NUMBER | WALL 5C STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | TOP OF SOLDIER BEAM ELEV. (EL. C) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE |
|---|---|---|---|---|---|---|---|---|
| 1 | 60+00.00 | 1.31 RT | 644.83 | 663.83 | 682.14 | 37.31 | 48.00 | W33X201 |
| 2 | 60+06.50 | 1.31 RT | 644.83 | 663.83 | 682.11 | 37.28 | 48.00 | W33X201 |
| 3 | 60+13.00 | 1.31 RT | 647.86 | 666.86 | 682.08 | 34.22 | 48.00 | W33X201 |
| 4 | 60+19.50 | 1.31 RT | 650.86 | 669.86 | 682.05 | 31.19 | 48.00 | W33X201 |
| 5 | 60+26.00 | 1.31 RT | 654.90 | 673.90 | 682.02 | 27.12 | 48.00 | W33X201 |




SECTION A-A




LAGGING PANEL ELEVATION

# WALL DETAILS AND SOLDIER PILE DIMESION TABLE RETAINING WALL 5C

DESIGN AGENCY TRC

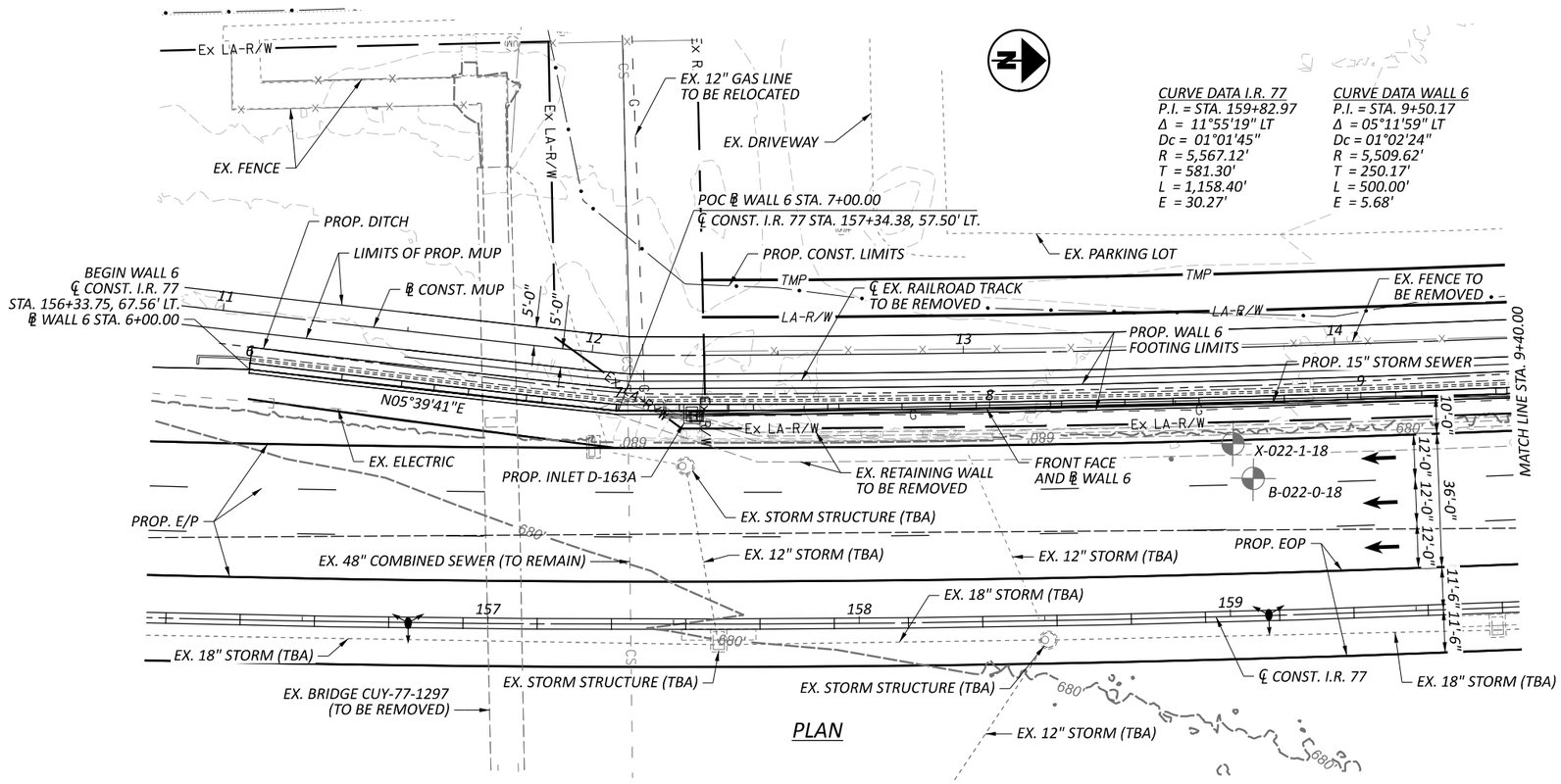
DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 4 | TOTAL 4

SHEET P.932 | TOTAL P.1135




PLAN

**CURVE DATA I.R. 77**
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

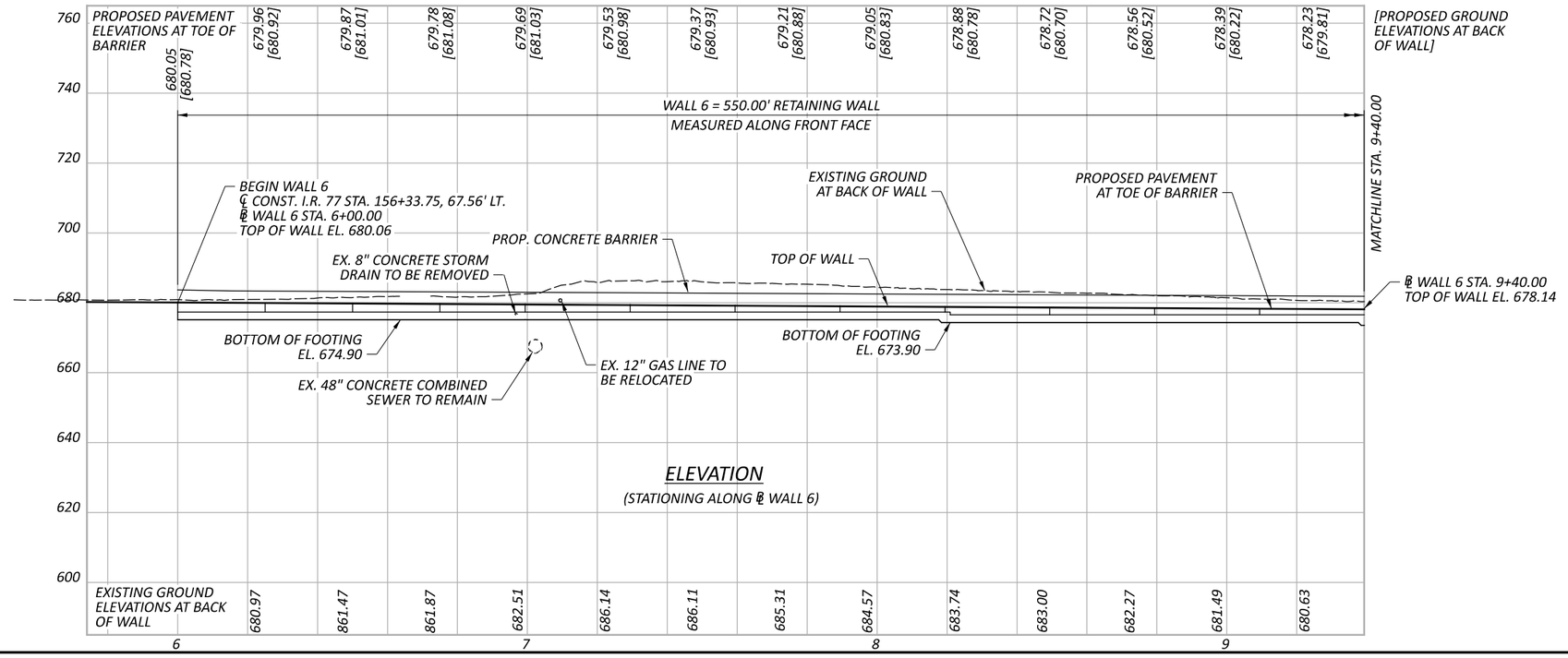
**CURVE DATA WALL 6**
P.I. = STA. 9+50.17
Δ = 05°11'59" LT
Dc = 01°02'24"
R = 5,509.62'
T = 250.17'
L = 500.00'
E = 5.68'

## LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL DETAILS OF EXISTING RETAINING WALL, SEE SHEETS 5/23 AND 6/23 OF RETAINING WALL 5A PLANS.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.




ELEVATION

(STATIONING ALONG ℄ WALL 6)

SITE PLAN 1 OF 2
RETAINING WALL 6

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 15 |
| SHEET | P.933 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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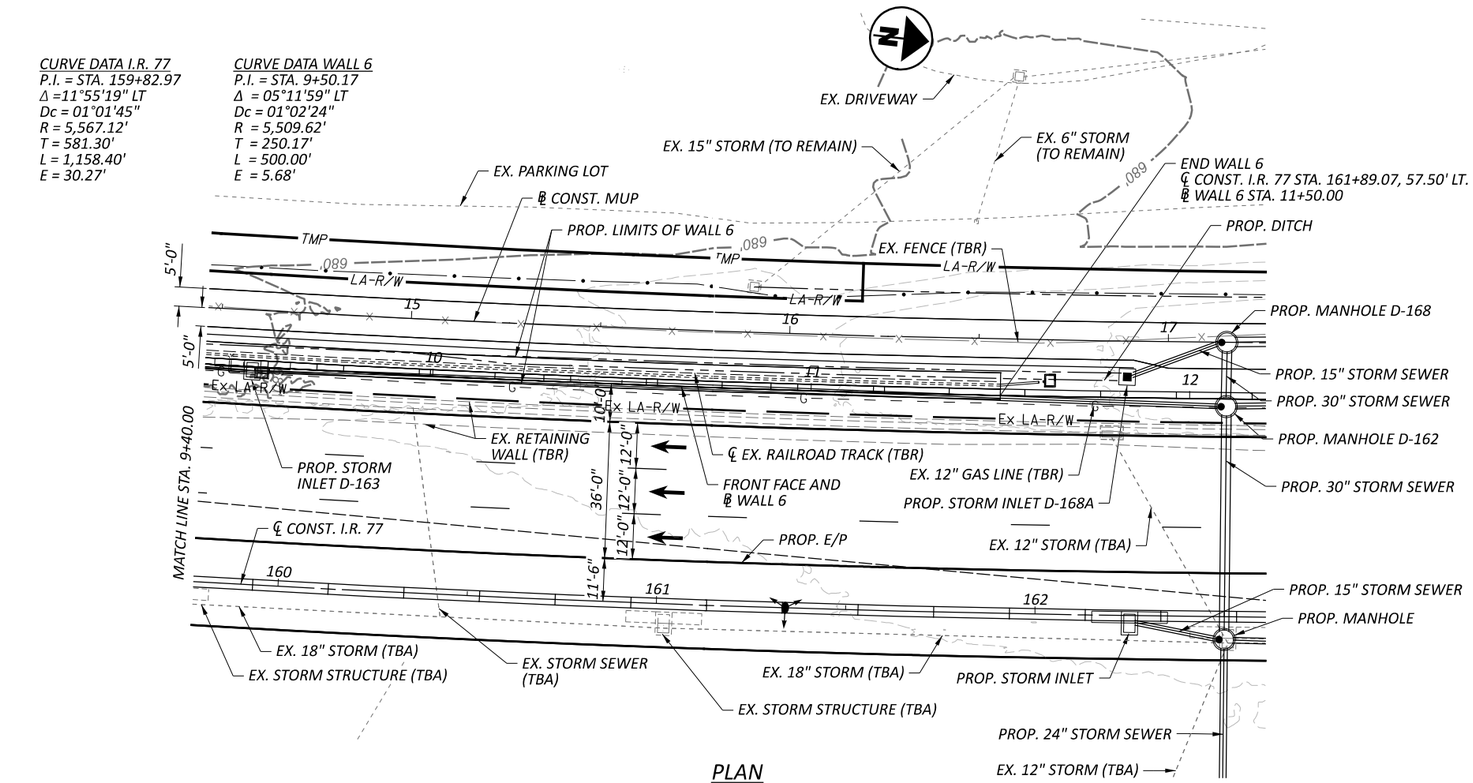
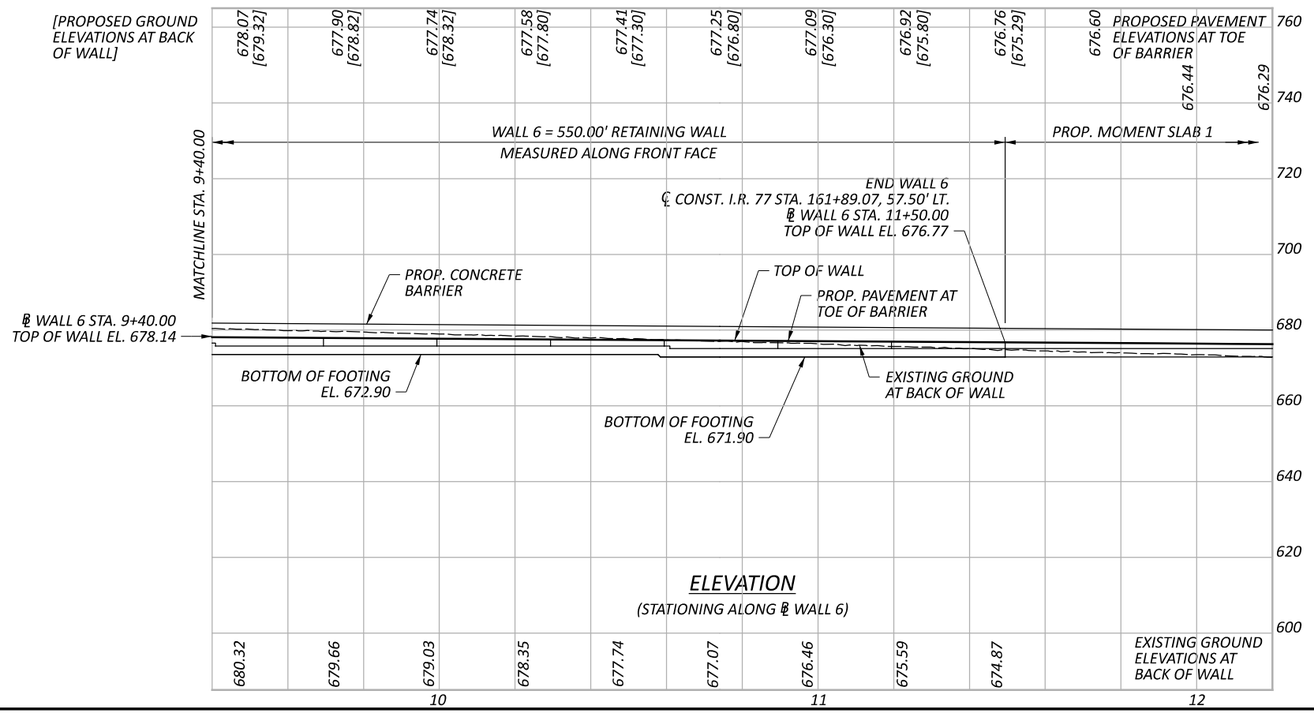
*CURVE DATA I.R. 77*
*P.I. = STA. 159+82.97*
*Δ =11°55'19" LT*
*Dc = 01°01'45"*
*R = 5,567.12'*
*T = 581.30'*
*L = 1,158.40'*
*E = 30.27'*

*CURVE DATA WALL 6*
*P.I. = STA. 9+50.17*
*Δ = 05°11'59" LT*
*Dc = 01°02'24"*
*R = 5,509.62'*
*T = 250.17'*
*L = 500.00'*
*E = 5.68'*




*PLAN*




*ELEVATION*
*(STATIONING ALONG ℄ WALL 6)*

## *LEGEND:*

- *SOIL BORING OR PAVEMENT CORING LOCATION*

## *NOTES:*

1. *EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.*
2. *FOR REMOVAL DETAILS OF EXISTING RETAINING WALL, SEE SHEETS 5/23 AND 6/23 OF RETAINING WALL 5A PLANS.*
3. *THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.*

# SITE PLAN 2 OF 2
# RETAINING WALL 6

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 2 |
| TOTAL | 15 |
| SHEET | P.934 |
| TOTAL | P.1135 |

## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWING:
SBR-1-20 REVISED 7/21/23
VPF-1-90 REVISED 7/21/23

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CONCRETE STEM)

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (CONCRETE ON WALL STEM)

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI (CONCRETE STEM)

## FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.05 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 1.44 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 5.39 KIPS PER SQUARE FOOT.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, MISC.: BARRIER ON WALL STEM

VERTICAL SAWCUTS SHALL BE PERFORMED IN THE CONCRETE BARRIER AT ALL CONTRACTION JOINTS IN THE WALL STEM. SAWCUTS SHALL CONFORM TO THE DETAILS AND SPECIFICATIONS IN STANDARD DRAWING SBR-1-20. LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE BARRIER CONCRETE.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 15
SHEET P.935 | TOTAL P.1135

CUY-77-11.41 - PART 1

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| ESTIMATED QUANTITIES (WALL 6) | | | | | |
|---|---|---|---|---|---|
| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
| | | | | | |
| 203 | 20000 | | CY | EMBANKMENT | |
| | | | | | |
| 503 | 21100 | | CY | UNCLASSIFIED EXCAVATION | |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46012 | | CY | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| 511 | 46512 | | CY | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | |
| 511 | 53012 | | CY | CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON STEM WALL | 3 |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 3 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |
| | | | | | |
| 607 | 39900 | | FT | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC | |
| | | | | | |

ESTIMATED QUANTITIES
RETAINING WALL 6

CUY-77-11.41 - PART 1

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DESIGN AGENCY
TRC

DESIGNER
LAB

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 15

SHEET P.936 | TOTAL P.1135

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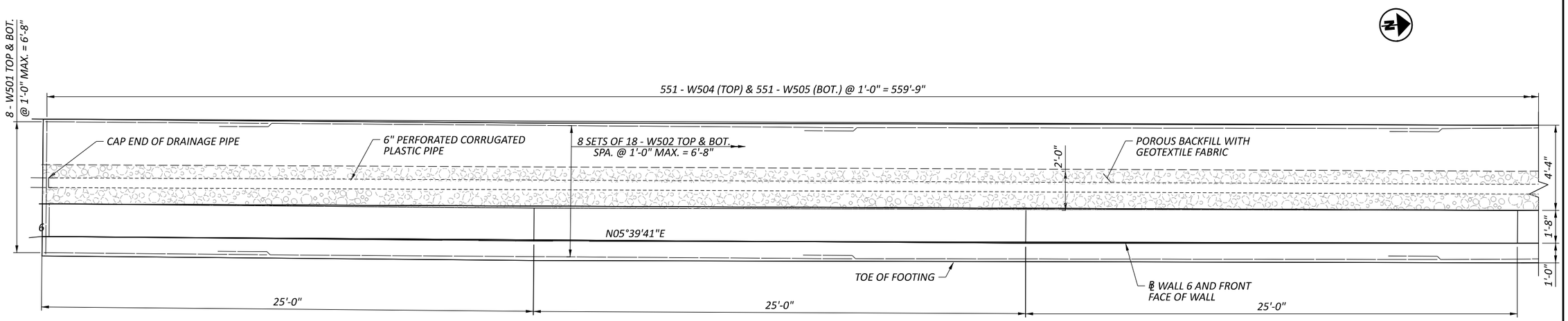
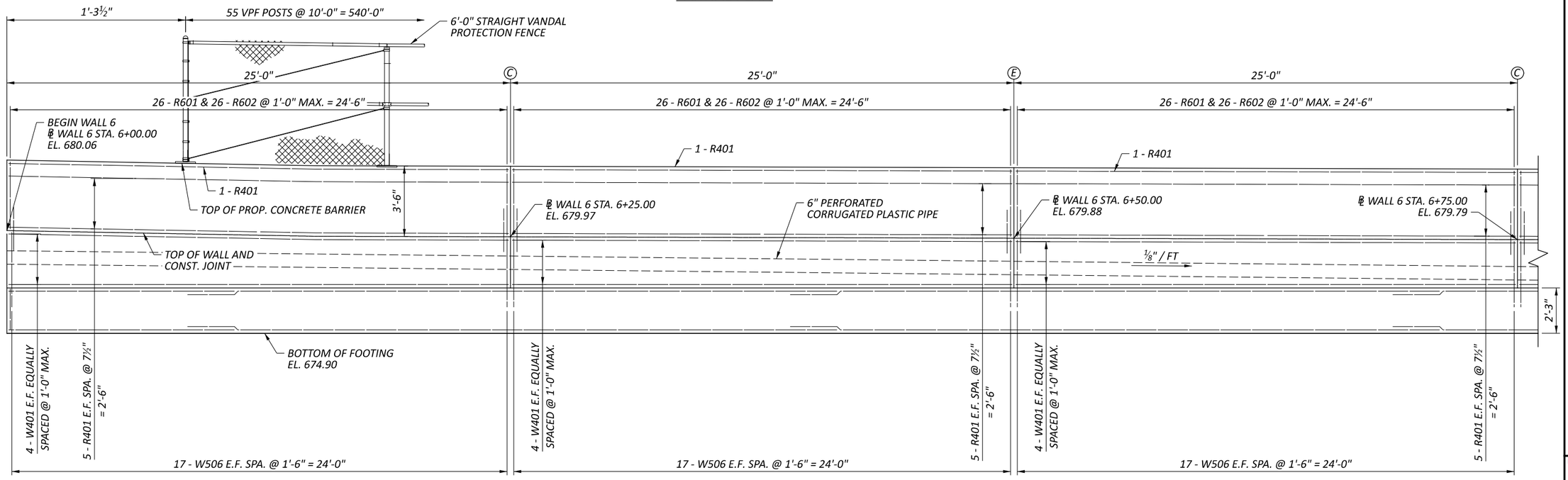
CUY-77-11.41 - PART 1




## PARTIAL PLAN




## PARTIAL ELEVATION

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

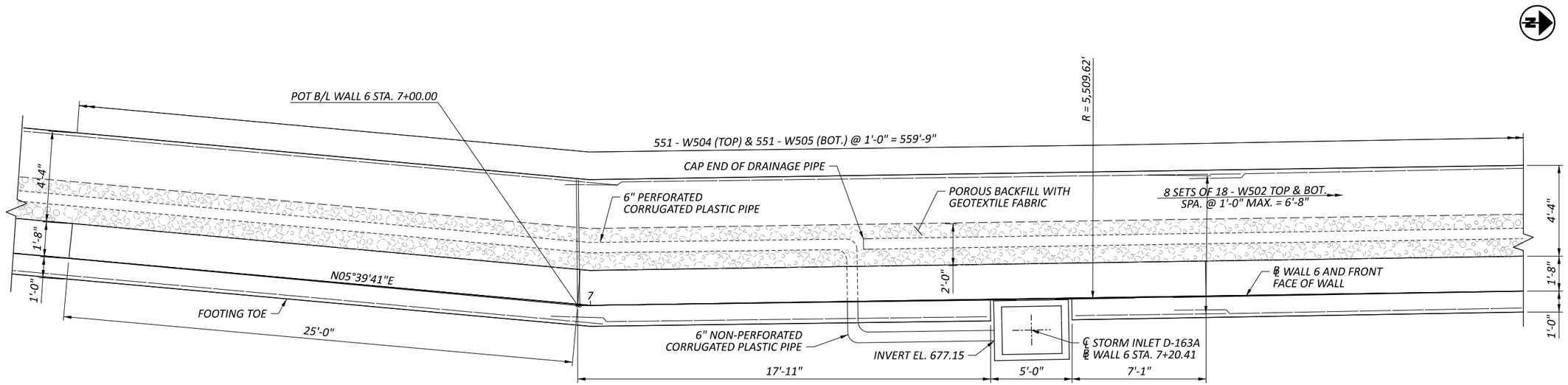
### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'=1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

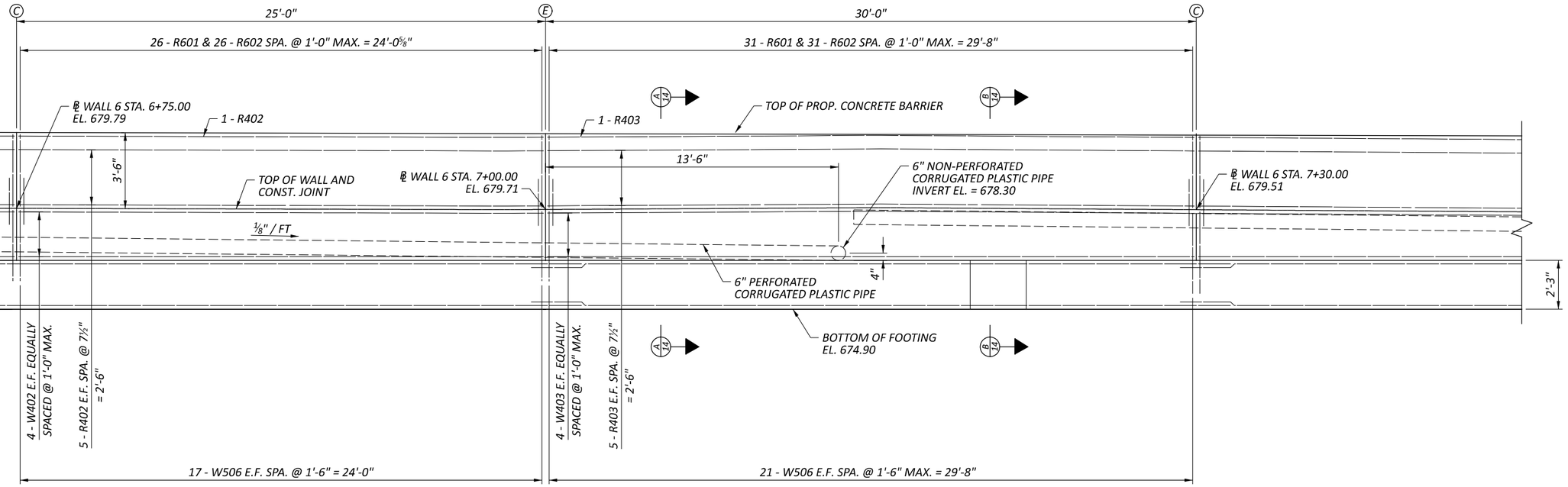
# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 15 |
| SHEET | P.937 |
| TOTAL | P.1135 |




## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B SEE SHEET 14/15.
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
4. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 6 |
| TOTAL | 15 |
| SHEET | P.938 |
| TOTAL | P.1135 |

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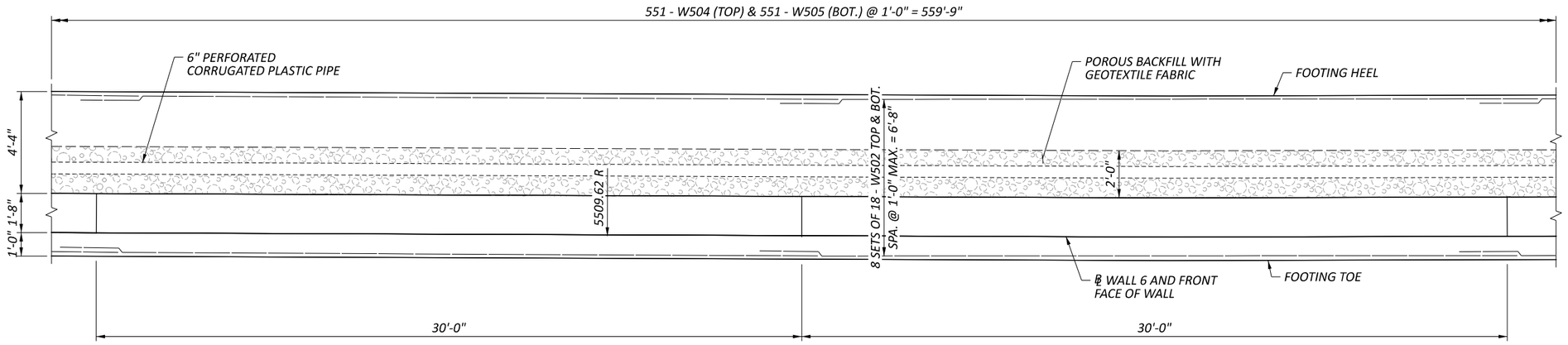
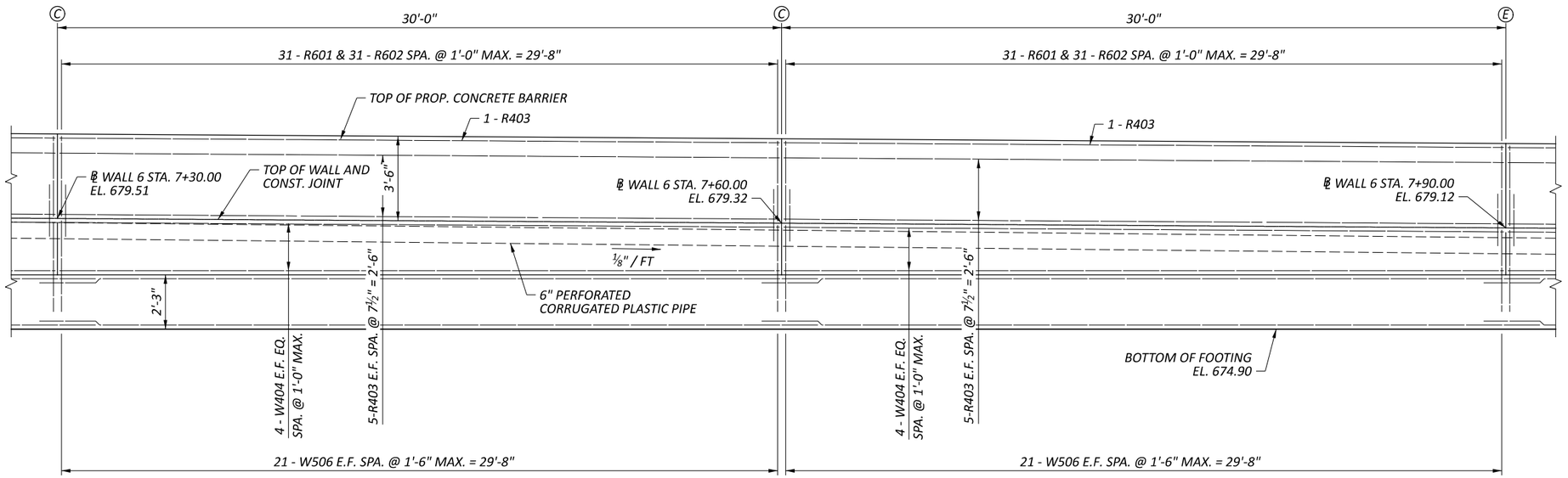



## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER: LAB

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 7 | TOTAL: 15

SHEET: P.939 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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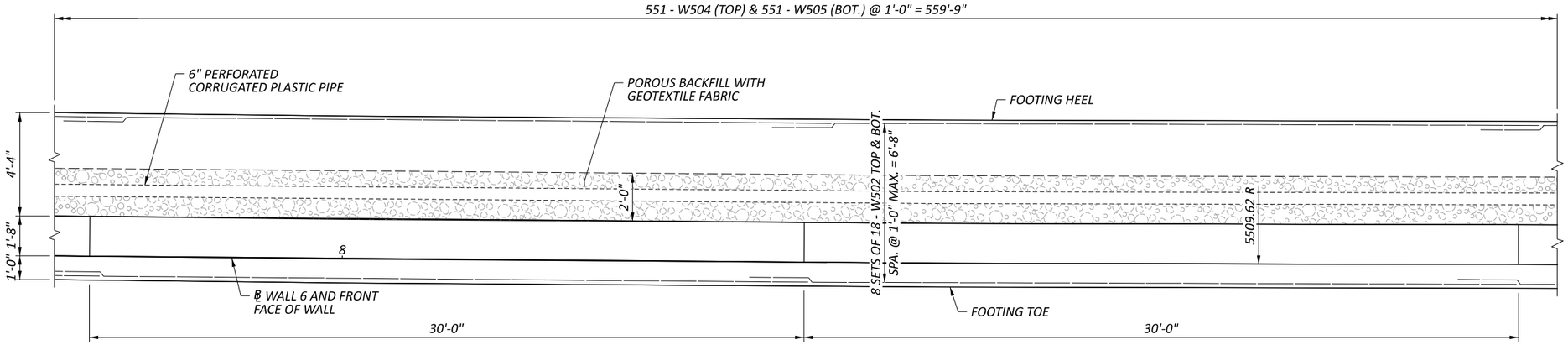
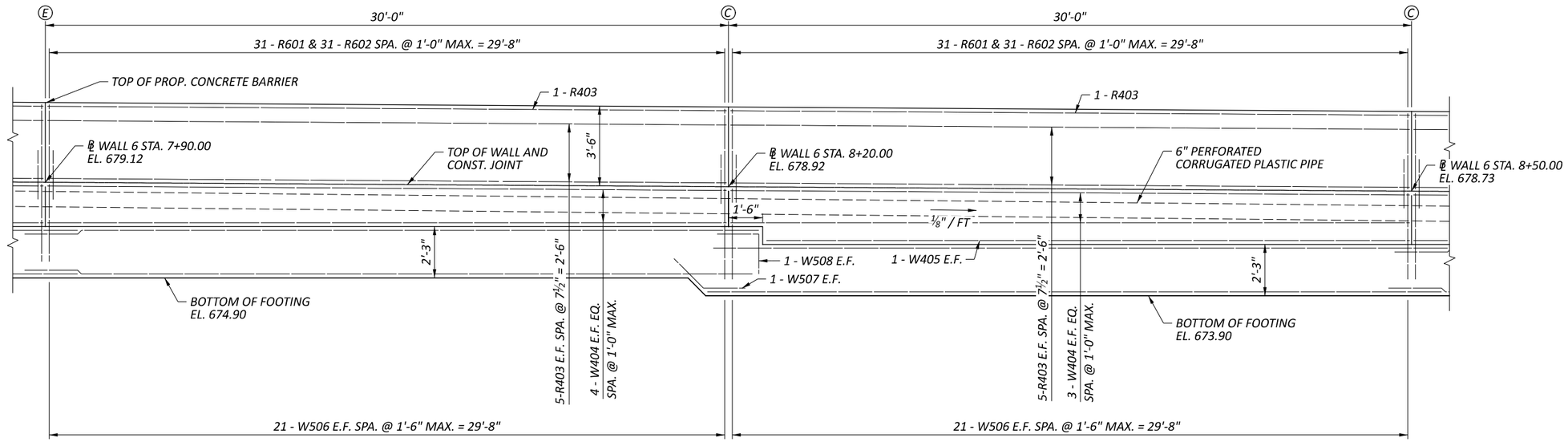



## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 15 |
| SHEET / TOTAL | P.940 / P.1135 |

CUY-77-11.41 - PART 1

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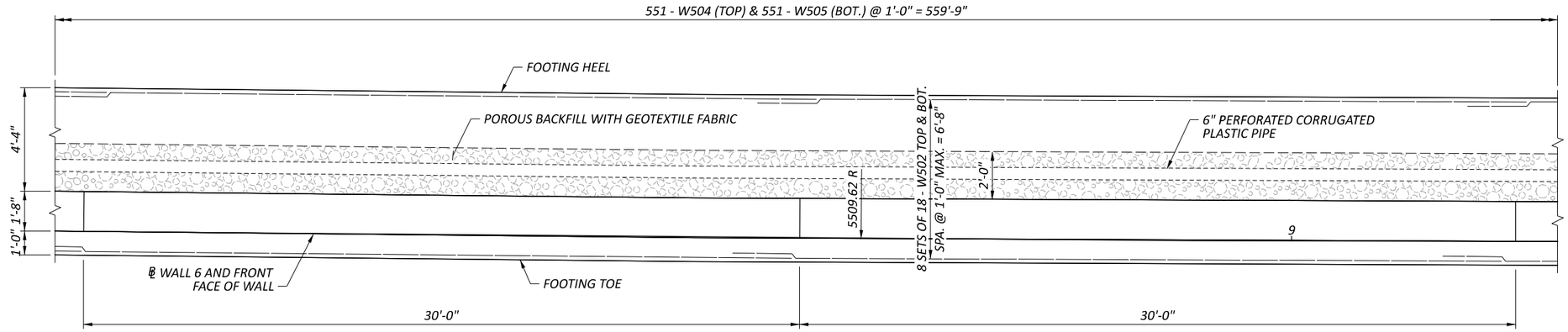
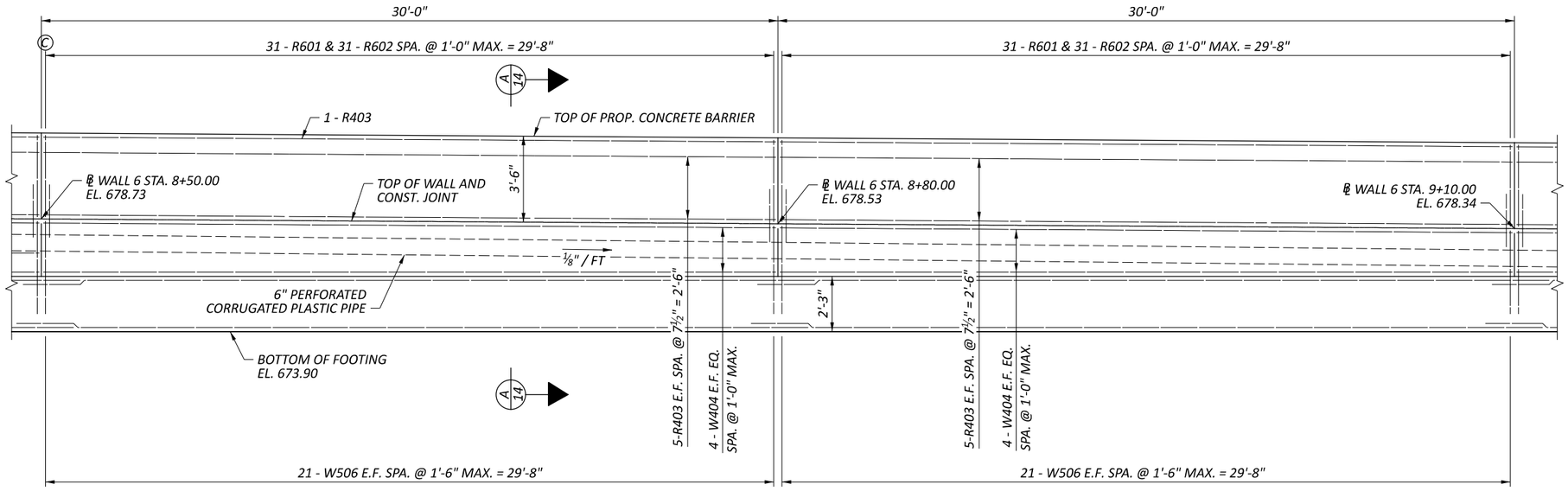



## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

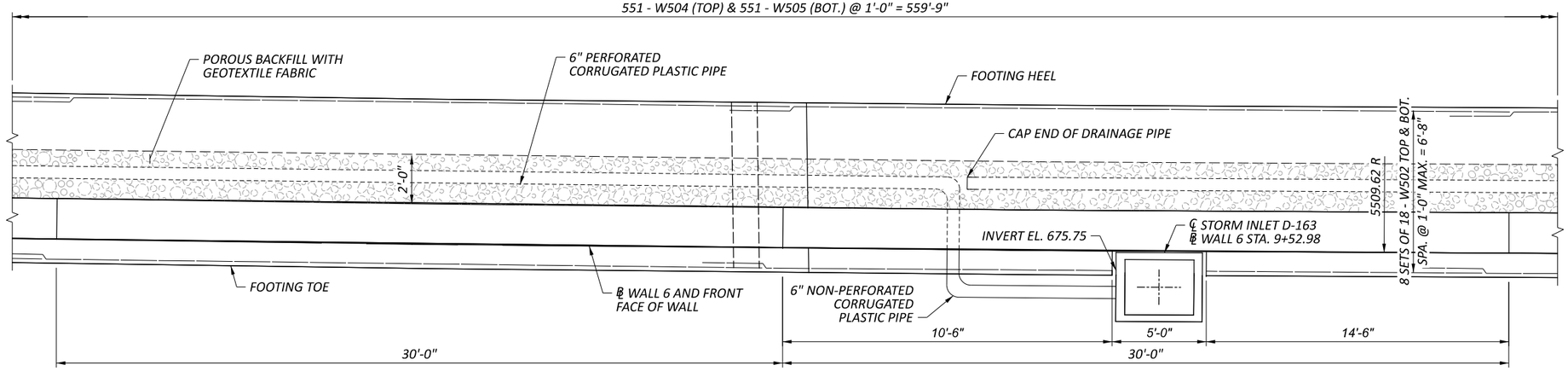
### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B SEE SHEET 14/15.
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
4. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".

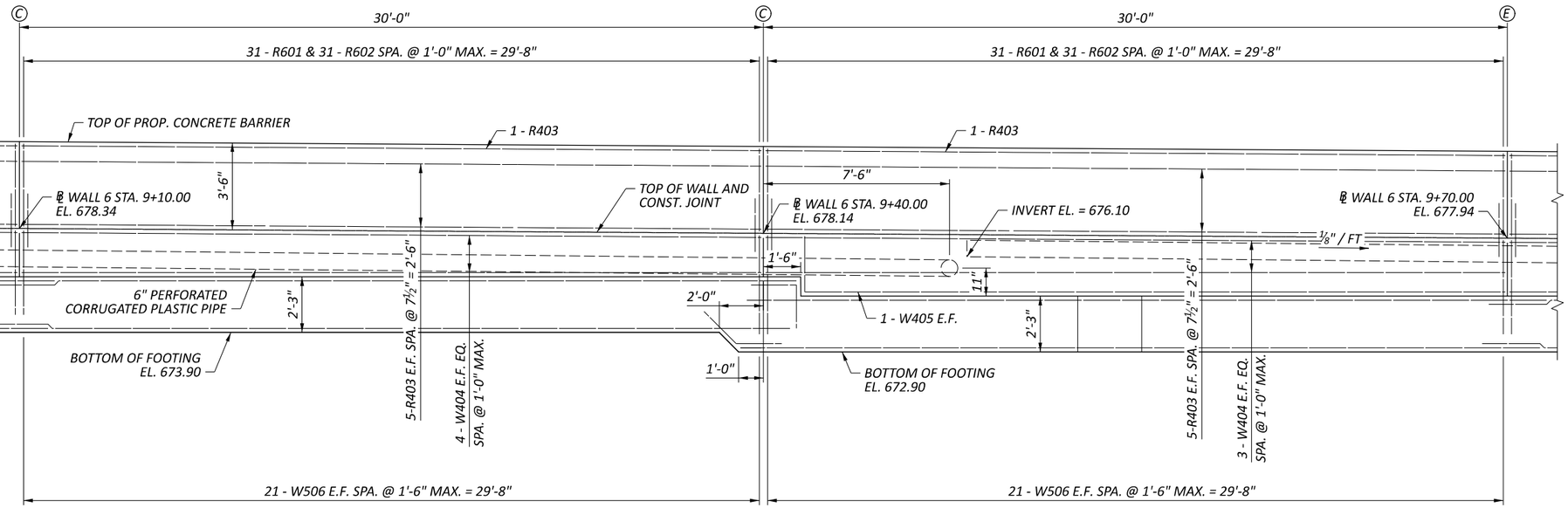
# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 9 / 15 |
| SHEET / TOTAL | P.941 / P.1135 |




## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER: LAB

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 10 | TOTAL: 15

SHEET: P.942 | TOTAL: P.1135

CUY-77-11.41 - PART 1

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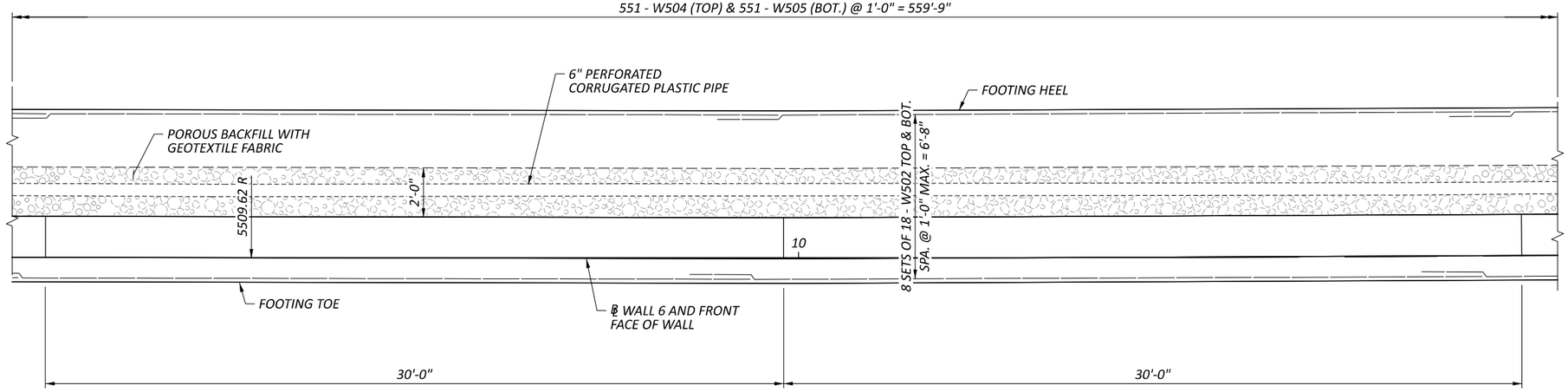
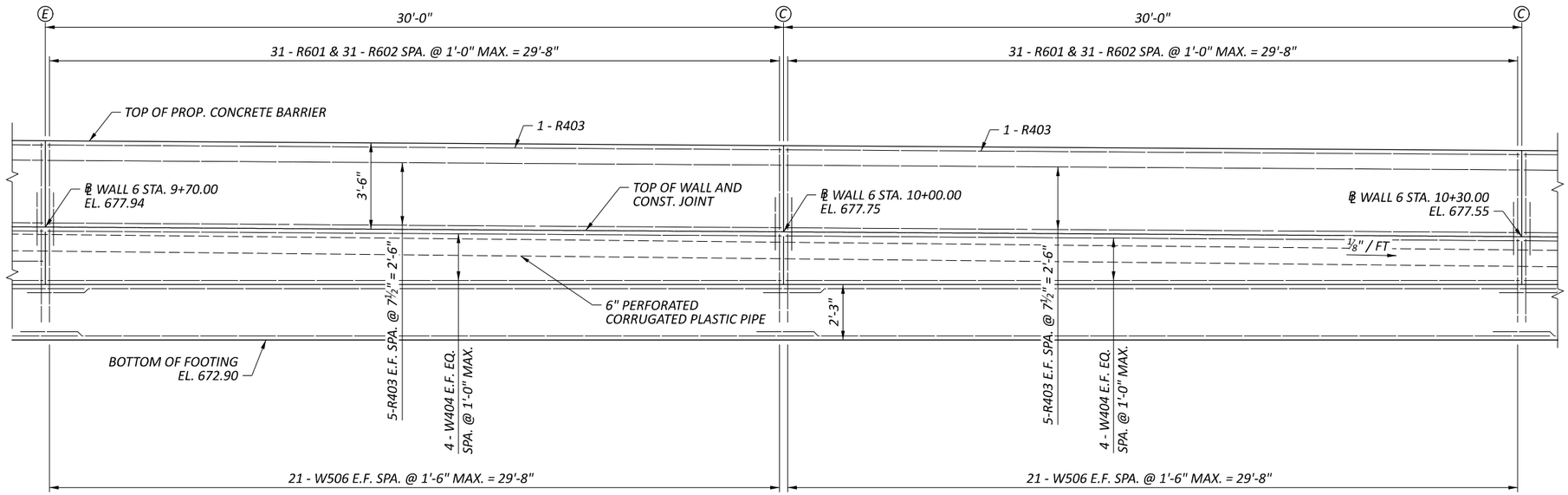



## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER: LAB

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 11 | TOTAL: 15

SHEET: P.943 | TOTAL: P.1135

CUY-77-11.41 - PART 1

MODEL: STA. 9+70 -- 10+30 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:16:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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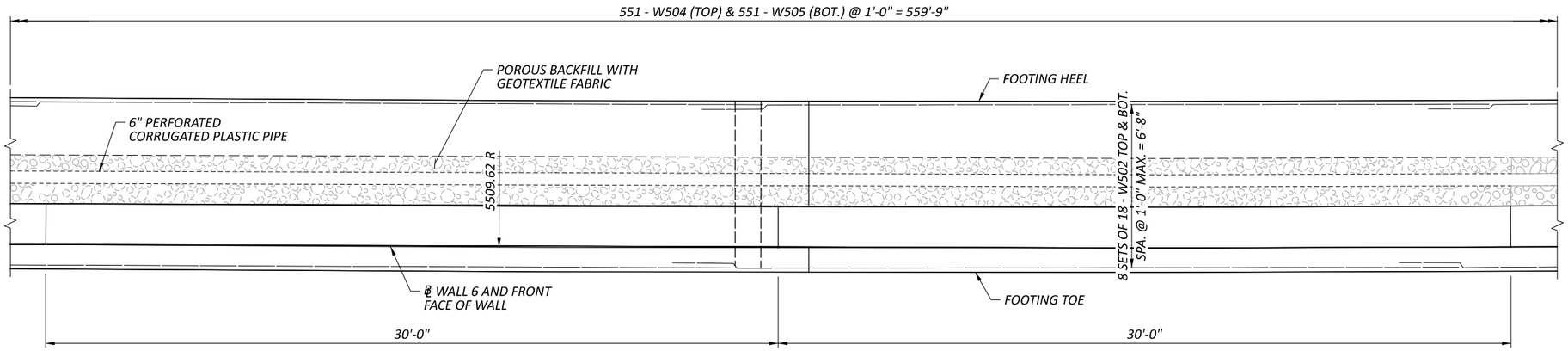
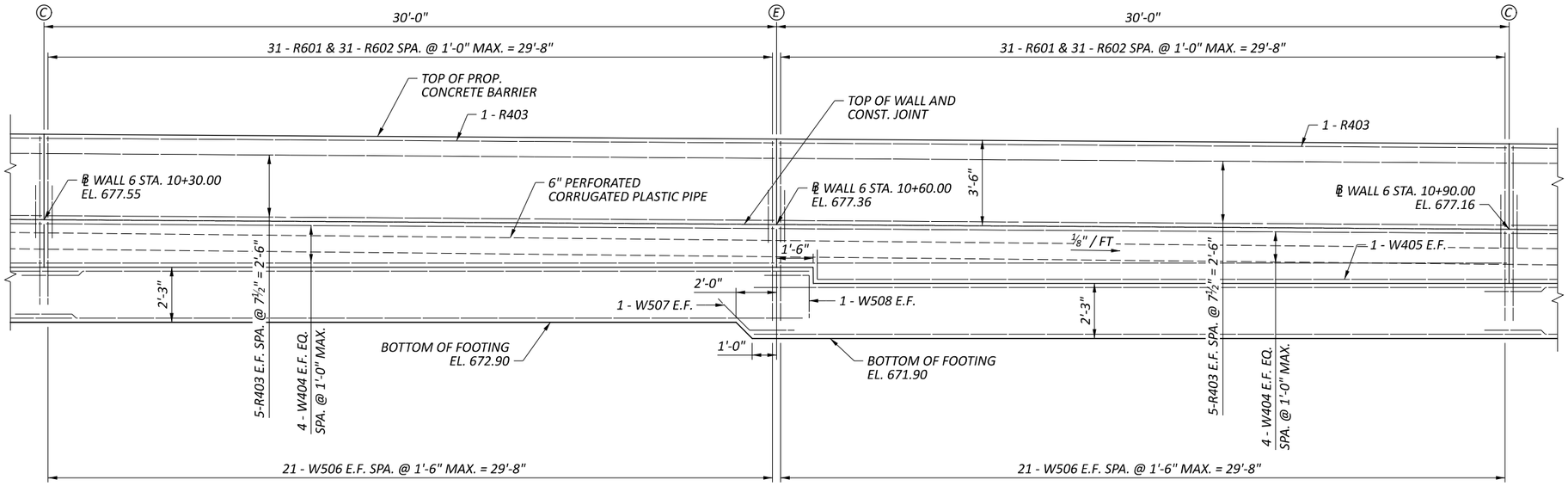



## PARTIAL PLAN




## PARTIAL ELEVATION

*(VANDAL FENCE NOT SHOWN FOR CLARITY)*

### LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

### NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTHS FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | LAB |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 12 / 15 |
| SHEET / TOTAL | P.944 / P.1135 |

CUY-77-11.41 - PART 1

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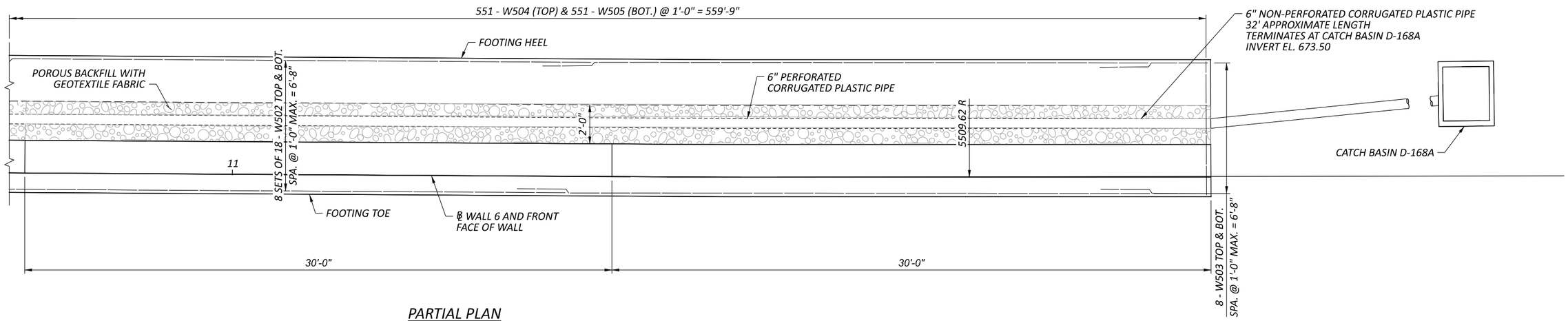
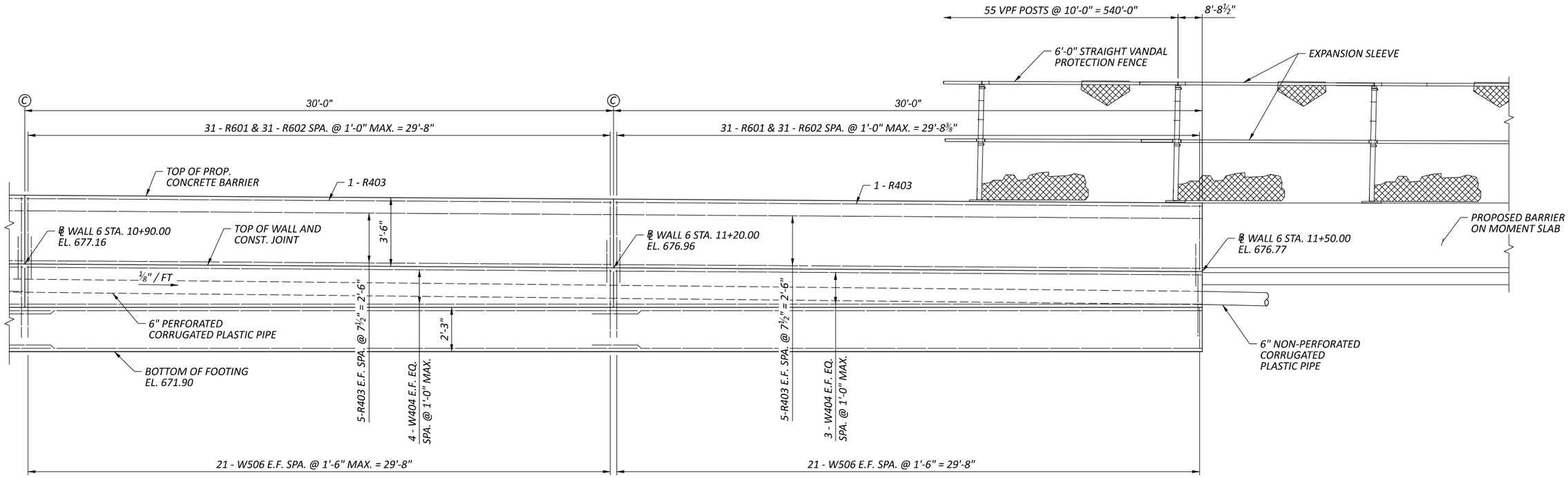



PARTIAL PLAN




PARTIAL ELEVATION

## LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

## NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

# WALL PLAN AND ELEVATION
# RETAINING WALL 6

CUY-77-11.41 - PART 1

MODEL: STA. 10+90 -- 11+60.68 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:16:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC

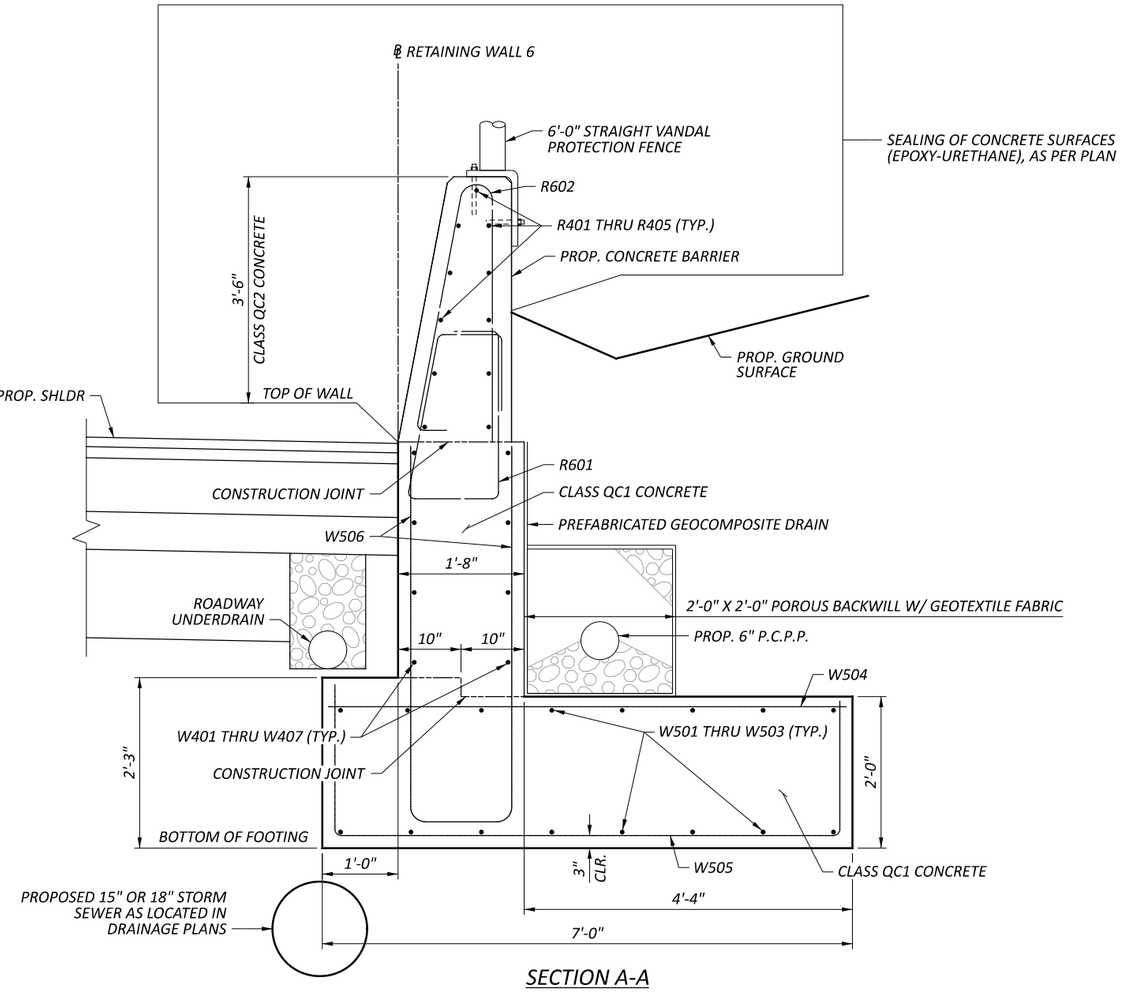
DESIGNER: LAB

REVIEWER: CJW 08/02/24

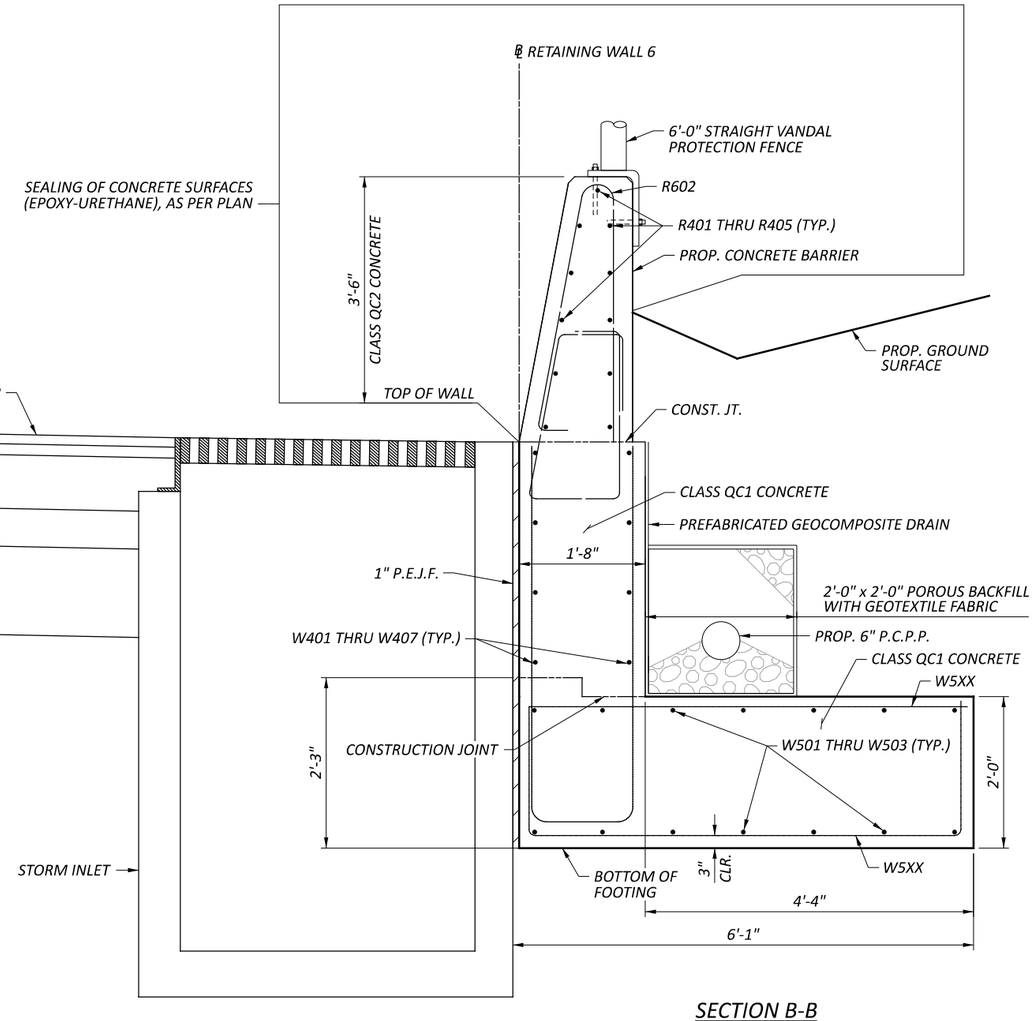
PROJECT ID: 105743

SUBSET: 13 | TOTAL: 15

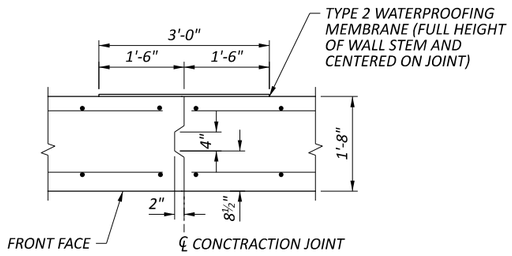
SHEET: P.945 | TOTAL: P.1135



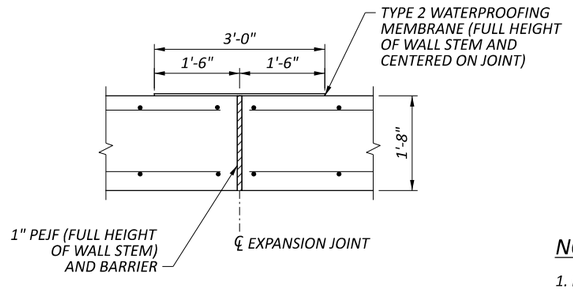

## SECTION A-A




## SECTION B-B




## CONTRACTION JOINT DETAIL




## EXPANSION JOINT DETAIL

## NOTES:

1. FOR WALL PLAN AND ELEVATION, SEE SHEETS 5/15 THRU 13/15.
2. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

# WALL DETAILS
# RETAINING WALL 6

CUY-77-11.41 - PART 1

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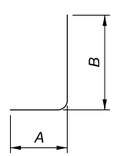
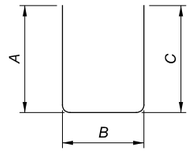
DESIGN AGENCY: TRC
DESIGNER: LAB
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 14 | TOTAL: 15
SHEET: P.946 | TOTAL: P.1135

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **WALL STEM AND FOOTING** | | | | | | | | | | | |
| W401 | 24 | 24'-8" | 395 | STR | | | | | | | |
| W402 | 8 | 24'-0" | 128 | STR | | | | | | | |
| W403 | 8 | 29'-7" | 158 | STR | | | | | | | |
| W404 | 98 | 29'-8" | 1942 | STR | | | | | | | |
| W405 | 6 | 28'-2" | 113 | STR | | | | | | | |
| W501 | 16 | 11'-3" | 188 | STR | | | | | | | |
| W502 | 288 | 32'-3" | 9687 | STR | | | | | | | |
| W503 | 16 | 5'-9" | 96 | STR | | | | | | | |
| W504 | 551 | 6'-8" | 3831 | STR | | | | | | | |
| W505 | 551 | 9'-9" | 5603 | 2 | 1'-8" | 6'-8" | 1'-8" | | | | |
| W506 | 766 | 3'-6" | 2796 | 1 | 3'-0" | 0'-8" | | | | | |
| W507 | 6 | 3'-8" | 23 | 19 | 1'-10" | 1'-4" | 1'-4" | | | | |
| W508 | 6 | 3'-6" | 22 | 1 | 1'-10" | 1'-10" | | | | | |
| TOTAL | | | 24,982 | | | | | | | | |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BARRIER** | | | | | | | | | | | |
| R401 | 33 | 24'-8" | 544 | STR | | | | | | | |
| R402 | 11 | 24'-0" | 176 | STR | | | | | | | |
| R403 | 165 | 29'-8" | 3270 | STR | | | | | | | |
| R601 | 569 | 7'-5" | 6339 | 37 | 0'-9" | 0'-9 ½" | 1'-5" | 1'-0" | 0'-7" | | |
| R602 | 569 | 5'-8" | 3388 | 23 | 0'-6" | 3'-3" | 3'-3" | | | 0'-2" | |
| TOTAL | | | 13,717 | | | | | | | | |




TYPE-1

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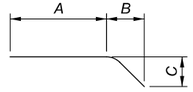


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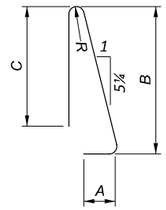


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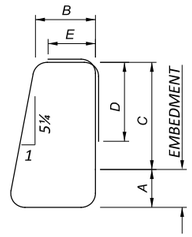


TYPE-37

## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 6

DESIGN AGENCY TRC

DESIGNER LAB

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 15 | TOTAL 15

SHEET P.947 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:16:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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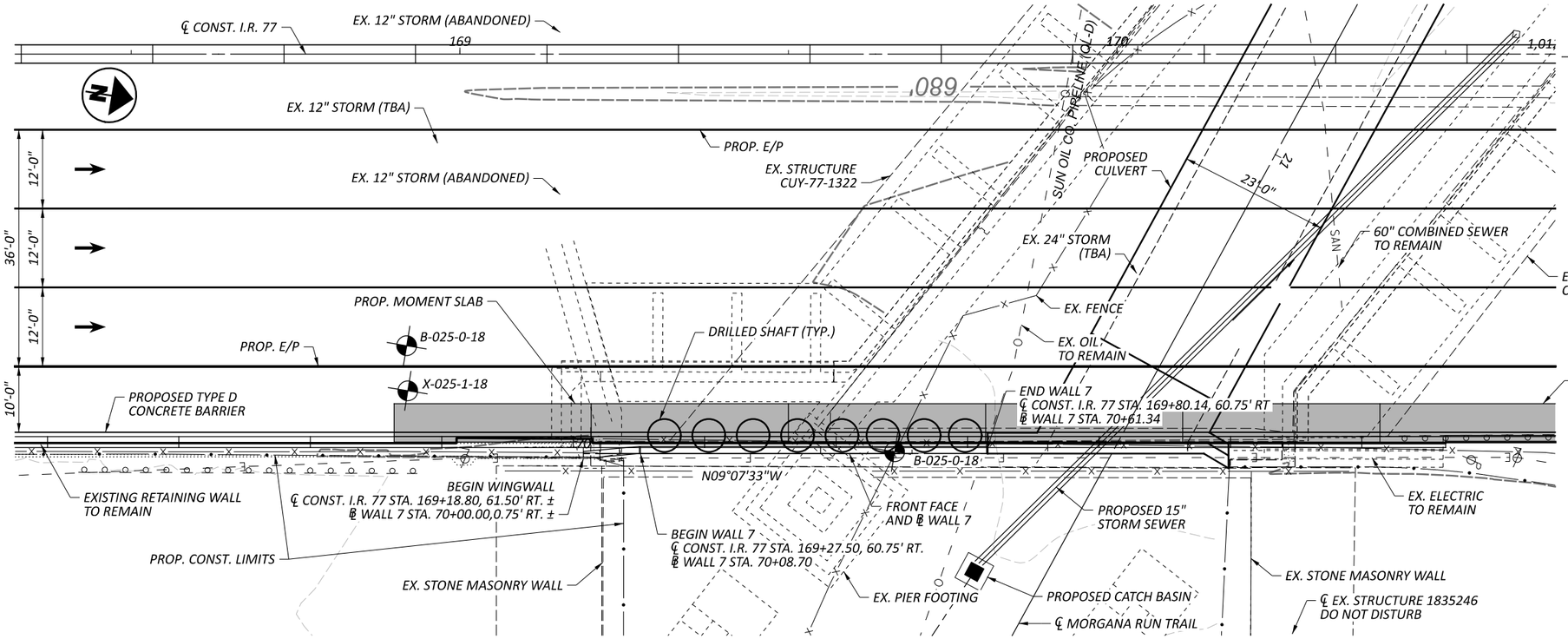
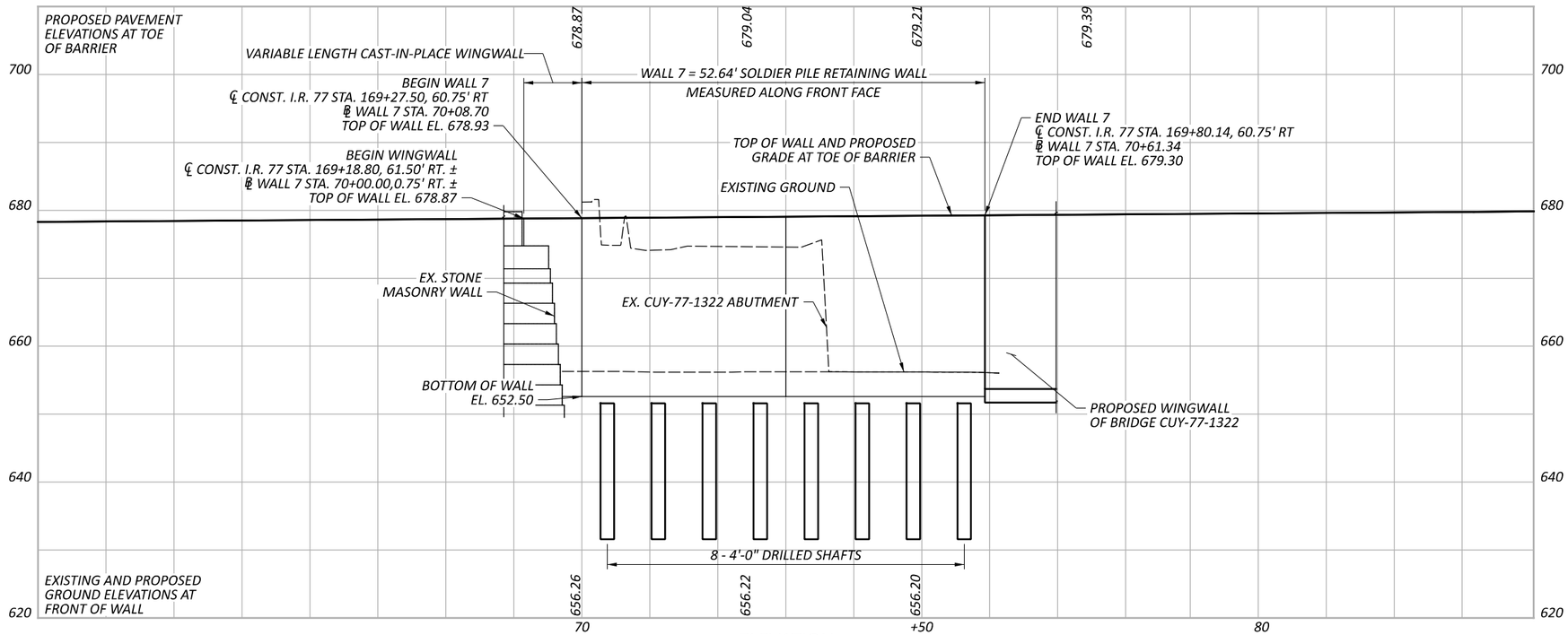



## PLAN




## ELEVATION

(STATIONING ALONG ℄ WALL 7)

### LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

### NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.

# SITE PLAN
# RETAINING WALL 7

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 8 |
| SHEET | P.948 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: wall 7 (2) - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:16:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

## DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

## ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36x194

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

## ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 7/8. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

## ITEM 524 - DRILLED SHAFT, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK ISINCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

| - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 8

SHEET P.949 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:16:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## ITEM 203 - ROADWAY MISC.: EPS GEOFOAM FILL

THIS WORK CONSISTS FURNISHING, TRIMMING AND PLACING BLOCK-MOLDED EXPANDED POLYSTYRENE (EPS) FOR USE AS A GEOFOAM GEOSYNTHETIC PRODUCT IN APPLICATIONS REQUIRING LIGHTWEIGHT FILL MATERIAL.

FURNISH EPS GEOFOAM BLOCKS PRODUCED BY A MANUFACTURER WITH A QUALITY CONTROL PROGRAM WHICH IS MONITORED AND CERTIFIED BY AN ACCREDITED, THIRD-PARTY TESTING ORGANIZATION. AT LEAST 20 DAYS BEFORE THE WORK IS TO BEGIN, SUBMIT TO THE ENGINEER THE FOLLOWING DOCUMENTS:

1. CERTIFIED TEST DATA SHOWING THE EPS GEOFOAM MEETS THE SPECIFIED REQUIREMENTS.
2. MANUFACTURER'S QUALITY CONTROL PLAN AND EVIDENCE OF THIRD-PARTY QUALITY CONTROL MONITORING.
3. SHOP DRAWINGS SHOWING BLOCK THICKNESS, WIDTH, LENGTH AND LAYING PATTERN OR SCHEDULE.

FURNISH EPS GEOFOAM BLOCKS CONFORMING TO ASTM D 6817, RIGID CELLULAR POLYSTYRENE GEOFOAM, ACCORDING TO THE GEOFOAM TYPE INDICATED IN THE PLANS AND THE TABLE BELOW.

| ASTM TYPE | EPS22 | EPS29 |
|---|---|---|
| MINIMUM DENSITY, LB/CU. FT. | 1.35 | 1.8 |
| COMPRESSIVE RESISTANCE | | |
| AT 1% STRAIN, PSI | 7.3 | 10.9 |
| AT 5% STRAIN, PSI | 16.7 | 25.0 |
| AT 10% STRAIN, PSI | 19.6 | 29.0 |
| FLEXURAL STRENGTH, PSI | 35.0 | 50.0 |

FURNISH BLOCKS TREATED BY THE MANUFACTURER WITH A TESTED AND PROVEN TERMITE TREATMENT FOR BELOW GRADE APPLICATIONS. THE TREATMENT SHALL BE EPA REGISTERED, MEET REQUIREMENTS OF ICC ES AC 239, AND BE RECOGNIZED IN AN ICC ES REPORT. FURNISH BLOCKS THAT MEET THE PRODUCT FLAMMABILITY REQUIREMENTS SPECIFIED IN ASTM C578.

FURNISH BLOCKS THAT ARE SMOOTH AND FLAT ON ALL SURFACES AND HAVE A DIMENSIONAL TOLERANCE OF ±0.5 PERCENT. THE CORNER OR EDGE FORMED BY ANY TWO FACES OF A BLOCK SHALL BE PERPENDICULAR. THE DEVIATION OF ANY FACE OF THE BLOCK FROM A THEORETICAL PERPENDICULAR PLANE SHALL NOT EXCEED 1/8 INCH OVER A DISTANCE OF 20 INCHES. ANY ONE FACE OF A BLOCK SHALL NOT DEVIATE FROM A THEORETICAL PLANE BY MORE THAN 1/4 INCH WHEN MEASURED USING A STRAIGHTEDGE WITH A LENGTH OF 10 FEET.

BEFORE SHIPPING TO THE SITE, ENSURE BLOCKS ARE SEASONED BY STORING THEM AT THE MANUFACTURER'S FACILITY FOR AT LEAST 72 HOURS AT NORMAL AMBIENT ROOM TEMPERATURE AFTER BEING RELEASED FROM THE MOLD. DURING SEASONING, ALLOW ADEQUATE SPACE BETWEEN THE BLOCKS TO ALLOW AIR CIRCULATION SO AS TO FOSTER THE OUTGASSING OF BLOWING AGENT AND TRAPPED CONDENSATE FROM WITHIN THE BLOCKS.

LABEL EACH BLOCK WITH THE MANUFACTURER'S NAME, ASTM EPS TYPE, THE DATE THE BLOCK WAS MOLDED, THE WEIGHT AND THE DENSITY OF THE BLOCK AS MEASURED AFTER SEASONING.

PROTECT THE BLOCKS FROM EXPOSURE TO THE FOLLOWING:

1. ORGANIC SOLVENTS SUCH AS ACETONE, BENZENE, AND PAINT THINNER
2. PETROLEUM BASED SOLVENTS SUCH AS GASOLINE AND DIESEL FUEL
3. HEAT SOURCES OR ACTIVITY THAT PRODUCE HEAT OR FLAME, INCLUDING TOBACCO SMOKING
4. MORE THAN 30 DAYS EXPOSURE TO SUNLIGHT

PROVIDE TIE DOWN STRAPS, SANDBAGS OR OTHER FLEXIBLE WEIGHTS TO PREVENT BLOCKS FROM BEING DISLODGED BY WIND. DO NOT STORE WHERE THERE IS A POTENTIAL FOR FLOODING.

PROTECT BLOCKS FROM DAMAGE. BLOCKS WITH SLIGHR DAMAGE WHICH AFFECTS A VOLUME OF 0.12 CUBIC FEET OR LESS MAY BE USED AS IS. BLOCKS WITH MODERATE DAMAGE WHICH AFFECTS A VOLUME OF 0.35 CUBIC FEET OR LESS MAY BE USED AND THE DAMAGED AREA FILLED WITH SAND. DO NOT USE BLOCKS WITH DAMAGE THAT AFFECTS A VOLUME GREATER THAN 0.35 CUBIC FEET. THE CONTRACTOR MAY CUT AND REMOVE THE DAMAGED PORTION OF A BLOCK AND THEN USE THE REMAINING UNDAMAGED PORTION OF THE BLOCK IF IT MEETS ALL OTHER REQUIREMENTS.

PREPARE THE SURFACE ON WHICH THE FIRST LAYER OF BLOCKS WILL BE PLACED BY STRIPPING ALL VEGETATION AND GRADING SO THAT IT IS LEVEL WITHIN A TOLERANCE OF 0.5 INCH OVER A 10 FT DISTANCE. PLACE GRANULAR MATERIAL CONFORMING TO SIZE NO. 9 IN TABLE 703.01 IN THE CM&S ON THE SURFACE TO FILL ANY LOW SPOTS IN THE SURFACE. ALSO USE NO. 9 GRANULAR MATERIAL TO FILL VOIDS BETWEEN THE SIDES OF THE BLOCKS AND ADJACENT SOIL OR RETAINING WALL COMPONENTS.

PLACE BLOCKS AS INDICATED ON THE PLANS AND SHOP DRAWINGS. PLACE BLOCKS SO THAT ALL VERTICAL AND HORIZONTAL JOINTS BETWEEN BLOCKS ARE TIGHT. GAPS BETWEEN BLOCKS AND ALONG THE RETAINING WALL SHALL NOT EXCEED 1 INCH. AVOID CONTINUOUS VERTICAL JOINTS BY OFFSETTING AND ROTATING SUCCESSIVE LAYERS OF BLOCKS. OFFSET BLOCKS AT LEAST 2 FEET BETWEEN LAYERS. THE SURFACE OF EACH LAYER OF BLOCKS ON WHICH ANOTHER LAYER WILL BE PLACED MUST BE LEVEL TO WITHIN 0.5 INCH OVER A 10 FT DISTANCE. CONSTRUCT THE SURFACE OF THE UPPERMOST LAYER OF BLOCKS TO THE GRADE SHOWN ON THE PLANS TO A TOLERANCE OF ZERO TO MINUS 2.5 INCHES.

TRIM THE BLOCKS AS REQUIRED USING A SAW OR HOTWIRE.

PLACE CONNECTOR PLATES BETWEEN HORIZONTAL LAYERS OF BLOCKS. PLACE AT LEAST TWO CONNECTOR PLATES PER BLOCK. FURNISH CONNECTOR PLATES MANUFACTURED FROM GALVANIZED STEEL OR STAINLESS STEEL AND THAT ARE BARBED ON BOTH SIDES. EACH CONNECTOR PLATE SHALL HAVE A LATERAL HOLDING STRENGTH OF AT LEAST 60 LBS.

PORTIONS OF THE GEOFOAM FILL THAT ARE NOT BENEATH A CONCRETE DISTRIBUTION SLAB OR CONCRETE APPROACH SLAB MUST BE PROTECTED FROM HYDROCARBON SPILLS (E.G. DIESEL OR GASOLINE) BY COVERING THE GEOFOAM BLOCKS ON THE TOP AND SIDES FURNISH A GEOMEMBRANE MANUFACTURED FROM A TRI-POLYMER MATERIAL CONSISTING OF POLYVINYL CHLORIDE, ETHYLENE INTERPOLYMER ALLOY, AND A POLYURETHANE OR A COMPARABLE POLYMER COMBINATION. THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

1. THICKNESS: MINIMUM 30 MILS (ASTM D751)
2. UNLEADED GASOLINE VAPOR MAXIMUM TRANSMISSION RATE 0.40 OZ. PER SQUARE FOOT PER 24 HOURS (ASTM D814)
3. GRAB TENSILE STRENGTH: MINIMUM 550 LBS BOTH MACHINE AND CROSS DIRECTION (ASTM D751)
4. ELONGATION AT BREAK: 20% MINIMUM (ASTM D751)
5. TOUGHNESS: MINIMUM 11,000 POUNDS (GRAB TENSILE STRENGTH MULTIPLIED BY PERCENT ELONGATION)
6. PUNCTURE RESISTANCE: MINIMUM 750 LB (ASTM D751 BALL TIP)
7. COLD CRACK: PASS AT -30° FAHRENHEIT (ASTM D2136 1 INCH MANDREL, 4 HOURS)
8. FACTORY SEAMS: 2-INCH MINIMUM BONDED WIDTH
9. SHEAR: MINIMUM 320 LB (ASTM D751)

PROVIDE CERTIFIED TEST DATA FROM THE MANUFACTURER THATS DEMONSTRATES THE GEOMEMBRANE MEETS THE ABOVE REQUIREMENTS. OVERLAP THE GEOMEMBRANE A MINIMUM OF 18 INCHES AT THE ENDS AND SIDES. PLACE THE BEGINNING OF EACH NEW ROLL BENEATH THE END OF THE PREVIOUS ROLL TO PREVENT THE ADVANCING FILL FROM LIFTING THE GEOMEMBRANE. STAGGER END OVERLAPS AT LEAST 5 FEET FROM THE OTHER END OVERLAPS IN ADJACENT ROLLS.

DO NOT DRIVE, OPERATE CONSTRUCTION EQUIPMENT, OR PLACE CONCENTRATED LOADS DIRECTLY ON THE BLOCKS. REMOVE AND REPLACE BLOCKS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS AT NO EXPENSE TO THE DEPARTMENT. PLACE AT LEAST 12 INCHES OF FILL OVER THE TOP OF THE BLOCKS BEFORE BEGINNING COMPACTION.

THE DEPARTMENT WILL MEASURE THE QUANTITY OF EPS GEOFOAM FILL BY THE NUMBER OF CUBIC YARDS COMPLETED AND ACCEPTED IN PLACE. INCLUDE IN THE CONTRACT UNIT PRICE FOR EPS GEOFOAM FILL THE COST OF SITE PREPARATION, GRANULAR MATERIAL, CONNECTOR PLATES, GEOMEMBRANE WRAP, AND OTHER ITEMS WHICH DO NOT HAVE A SEPARATE PAY ITEM BUT ARE NECESSARY TO INSTALL THE EPS GEOFOAM FILL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

| ITEM | UNIT | DESCRIPTION |
|---|---|---|
| 203 | CY | ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS22 |
| 203 | CY | ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS29 |

GENERAL NOTES
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 8

SHEET P.950 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (WALL 7)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 202 | 11201 | LS | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 5 |
| | | | | | |
| 203 | 35120 | | CY | GRANULAR MATERIAL, TYPE C | |
| 203 | 98000 | | CY | ROADWAY, MISC.: EPS GEOFOAM FILL TYPE EPS22 | 3 |
| 203 | 98000 | | CY | ROADWAY, MISC.: EPS GEOFOAM FILL TYPE EPS29 | 3 |
| | | | | | |
| 507 | 00400 | | FT | STEEL PILES, MISC.: SOLDIER PILES, W36X194 | 2 |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 510 | 10000 | | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT | |
| | | | | | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING / WINGWALL NOT INCLUDING FOOTING | 6 |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33001 | | SY | TYPE 2 WATERPROOFING, AS PER PLAN | 2 |
| | | | | | |
| 513 | 20001 | | EACH | WELDED STUD SHEAR CONNECTORS, AS PER PLAN | 2 |
| | | | | | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40010 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | |
| | | | | | |
| 524 | 94903 | | FT | DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN | 2 |
| | | | | | |



DESIGN AGENCY
TRC
DESIGNER
CEJ
REVIEWER
CJW 11/17/25
PROJECT ID
105743
SUBSET 4 | TOTAL 8
SHEET P.951 | TOTAL P.1135

CUY-77-11.41 - PART 1
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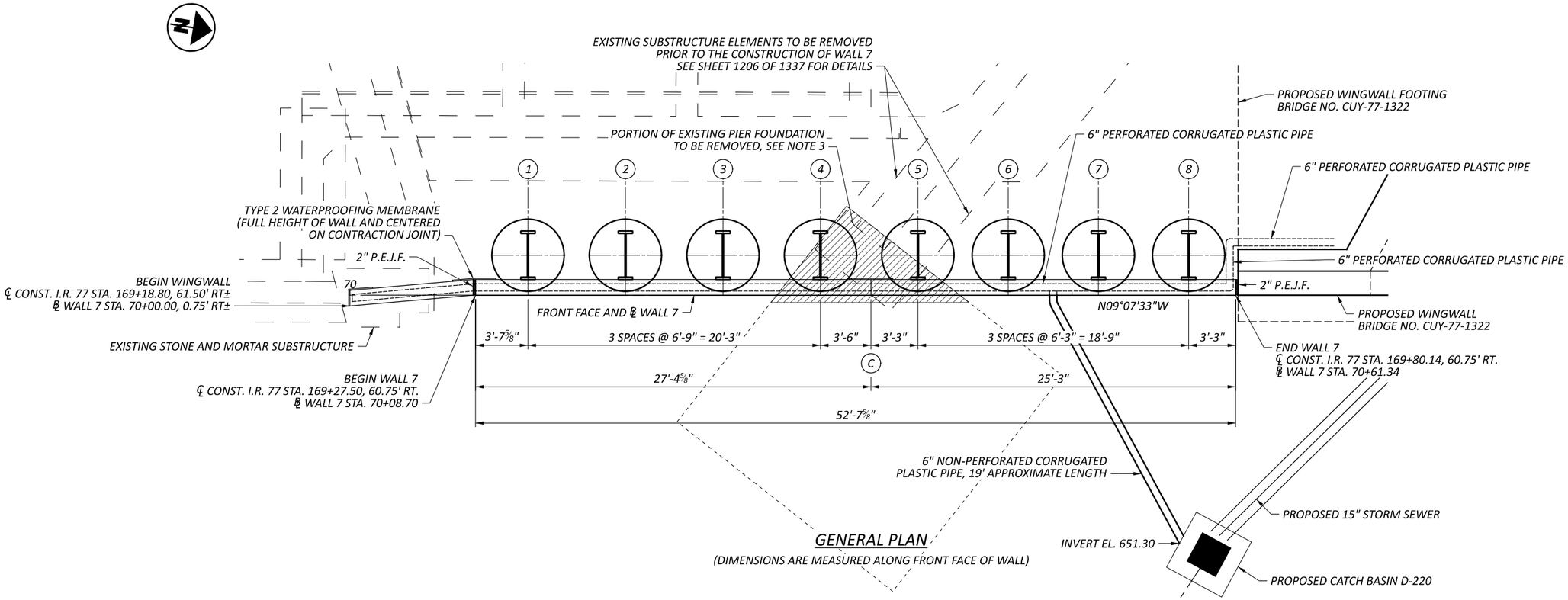
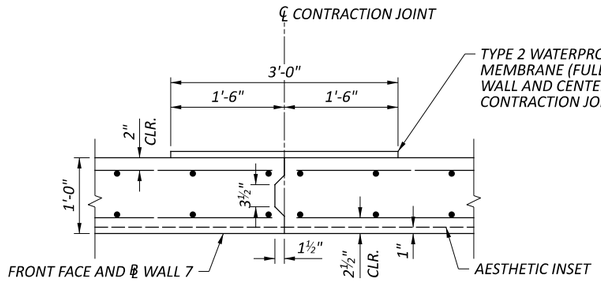
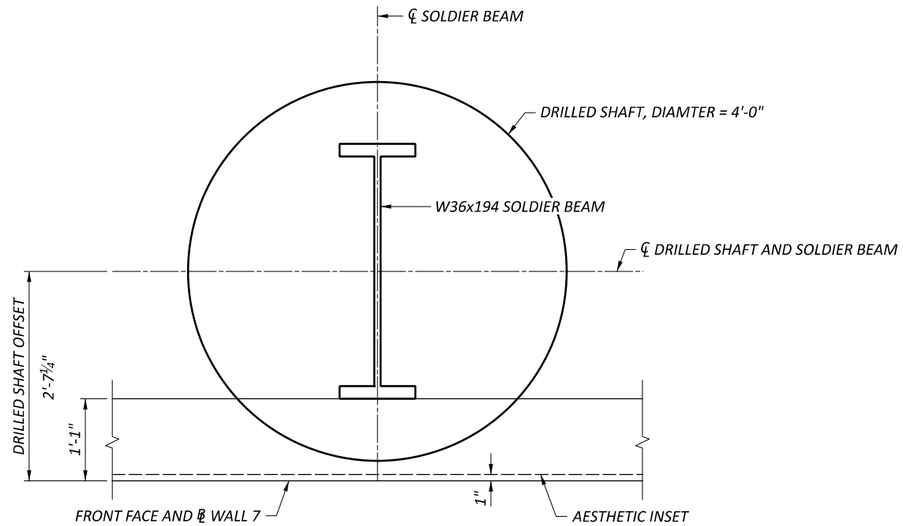



## GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)




## CONTRACTION JOINT DETAIL




## DRILLED SHAFT LOCATION DETAIL

### LEGEND:

- Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM
- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT

### NOTES:

1. FOR WALL ELEVATION VIEW, SEE SHEET 6/8.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 7/8.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING PIER FOUNDATION INCLUDING TIMBER PILES TO LIMITS THAT PROVIDE AT LEAST 1'-0" CLEARANCE TO THE PROPOSED FACE OF WALL 7. SINCE THE PEDESTAL FOUNDATION IS ANTICIPATED TO REMAIN AT LEAST ONE FOOT BELOW THE FINISHED GRADE, NO FURTHER REMOVAL IS NECESSARY, BUT THE CONTRACTOR MAY EXTEND REMOVAL LIMITS FOR CONVENIENCE OF CONSTRUCTION. ALL LABOR AND EQUIPMENT REQUIRED FOR THIS WORK AND FOR THE DISPOSAL OF MATERIALS SHALL BE PAID AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

# PILE LAYOUT AND GEOMETRY SCHEMATIC
# RETAINING WALL 7

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 5 / 8 |
| SHEET / TOTAL | P.952 / P.1135 |

CUY-77-11.41 - PART 1

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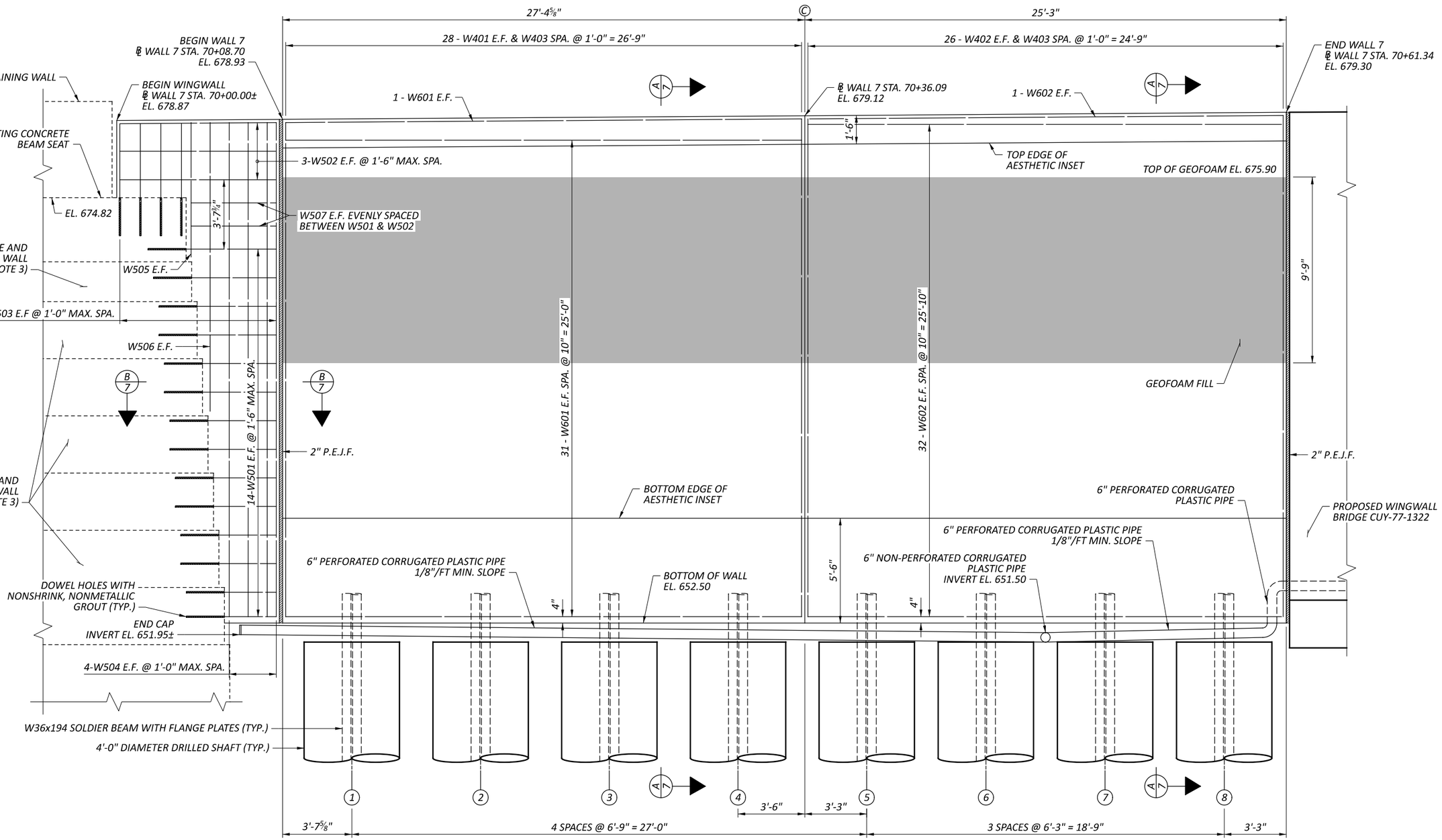


## ELEVATION

## LEGEND:

- ℗ - DRILLED SHAFT NUMBER
- ℄ - CONTRACTION JOINT

## NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/8.
3. PRIOR TO DRILLING FOR SHAFT 1, THE CONTRACTORSHALL VERIFY THE LOCATION OF THE EXISTING STONE BLOCK WINGWALL OF THE 49TH STREET (CR 378) BRIDGE BY EXCAVATION, PROBING, BORING, OR OTHER METHODS SATISFACTORY TO THE ENGINEER.
4. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.

# WALL ELEVATION
# RETAINING WALL 7

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET 6 | TOTAL 8
SHEET P.953 | TOTAL P.1135

CUY-77-11.41 - PART 1

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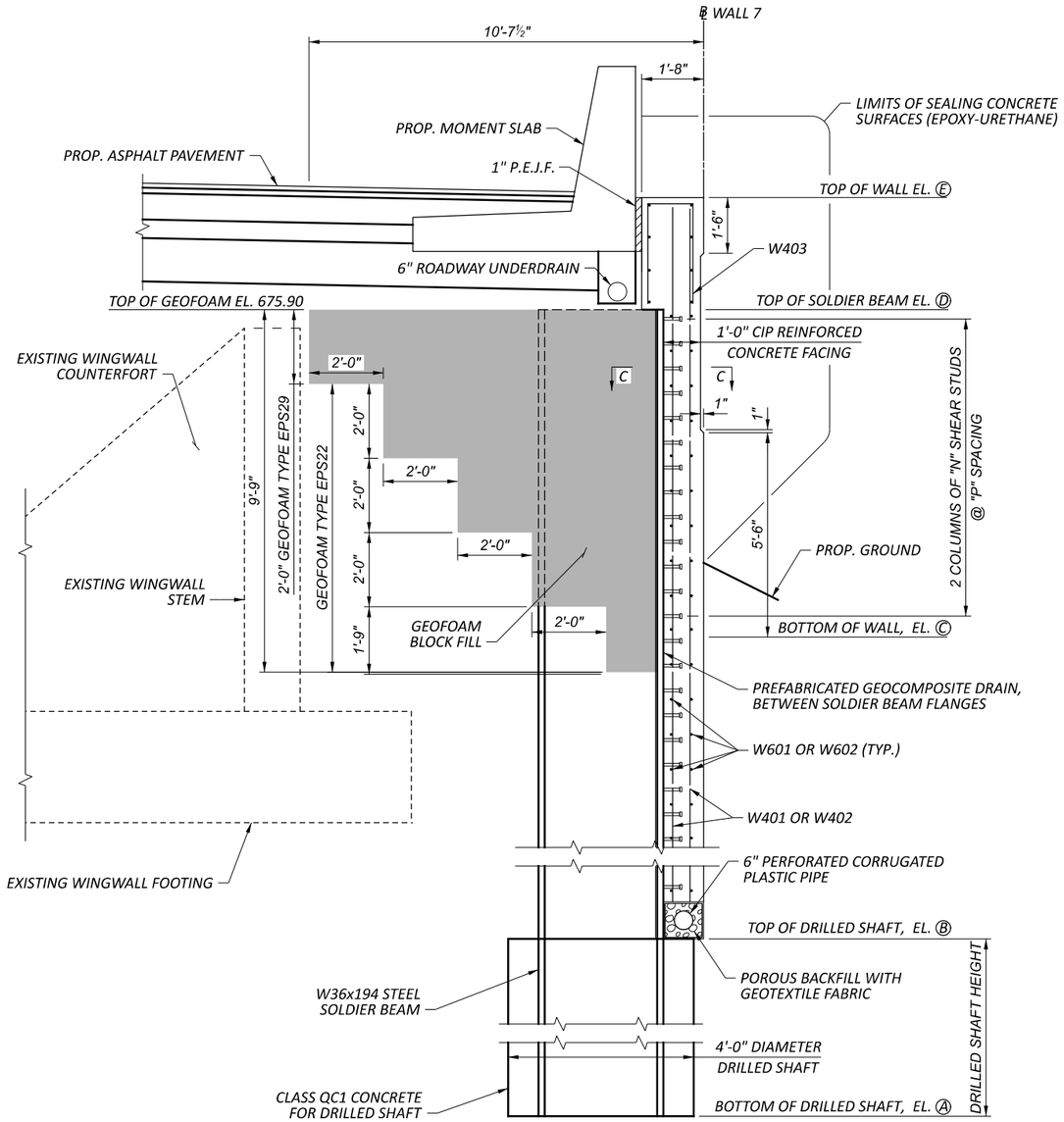
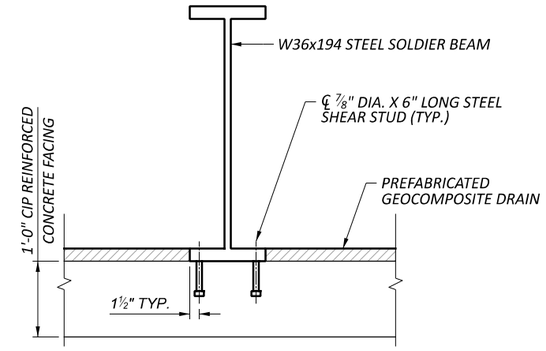
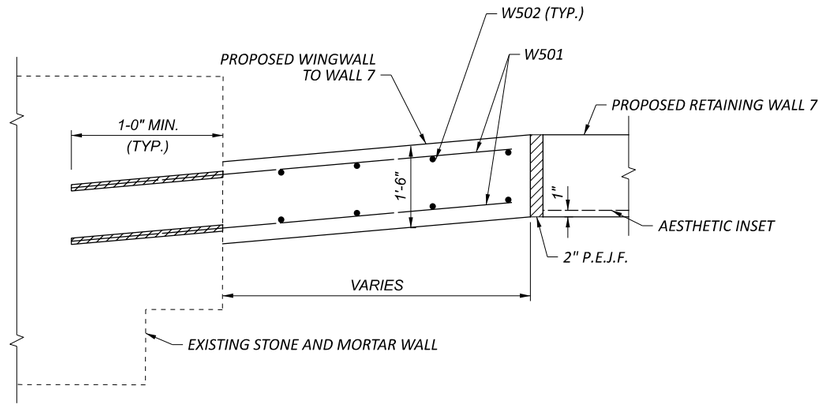



## SECTION A-A




## SECTION C-C




## SECTION B-B

| DRILLED SHAFT NUMBER | WALL 7 STATION | OFFSET | BOTT. OF SHAFT ELEVATION (EL. A) | TOP OF SHAFT ELEVATION (EL. B) | BOTT. OF WALL ELEVATION (EL. C) | TOP OF SOLDIER BEAM ELEV. (EL. D) | TOP OF WALL ELEVATION (EL. E) | LENGTH OF SOLDIER BEAM (FEET) | DRILLED SHAFT DIAMETER (INCHES) | SOLDIER BEAM SIZE | NUM. OF SHEAR STUD PAIRS (N) | SPACING OF SHEAR STUDS (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 70+12.34 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.71 | 678.96 | 43.21 | 48.00 | W36X194 | 24 | 11.75 in |
| 2 | 70+19.09 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.75 | 679.00 | 43.25 | 48.00 | W36X194 | 24 | 11.75 in |
| 3 | 70+25.84 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.80 | 679.05 | 43.30 | 48.00 | W36X194 | 24 | 11.75 in |
| 4 | 70+32.59 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.85 | 679.10 | 43.35 | 48.00 | W36X194 | 24 | 11.75 in |
| 5 | 70+39.34 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.90 | 679.15 | 43.40 | 48.00 | W36X194 | 24 | 11.75 in |
| 6 | 70+45.59 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.94 | 679.19 | 43.44 | 48.00 | W36X194 | 24 | 11.75 in |
| 7 | 70+51.84 | 2.60 LT | 632.50 | 651.50 | 652.50 | 675.98 | 679.23 | 43.48 | 48.00 | W36X194 | 24 | 11.75 in |
| 8 | 70+58.09 | 2.60 LT | 632.50 | 651.50 | 652.50 | 676.03 | 679.28 | 43.53 | 48.00 | W36X194 | 25 | 11.50 in |

## NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 6 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. GEOFOAM BLOCKS APPROXIMATELY 2'x2' AND 2'x4' IN SIZE ARE SHOWN FOR ILLUSTRATION. THE CONTRACTOR MAY USE OTHER BLOCK SIZES BUT THE GEOFOAM PLACEMENT SHALL MEET THE LIMITS DIMENSIONED IN THE PLANS.
5. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/8.
6. FOR WALL ELEVATION, SEE SHEET 6/8.
7. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED BETWEEN THE PROPOSED WALL FACING AND THE EXISTING ABUTMENT WINGWALL UP TO THE ELEVATION OF GEOFOAM FILL.

# TYPICAL SECTION AND SOLDIER PILE DIMENSION TABLE
# RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 7 | TOTAL 8

SHEET P.954 | TOTAL P.1135

CUY-77-11.41 - PART 1

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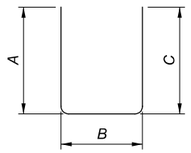
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W401 | 62 | 26'-0" | 1077 | STR | | | | | | | |
| W402 | 60 | 26'-2" | 1049 | STR | | | | | | | |
| W403 | 61 | 4'-7" | 183 | 2 | 2'-3" | 1'-0" | 1'-6" | | | | |
| *W501 | 28 | 6'-8" | 195 | STR | | | | | | | |
| W502 | 6 | 8'-2" | 51 | STR | | | | | | | |
| *W503 | 16 | 6'-0" | 100 | STR | | | | | | | |
| W504 | 8 | 25'-10" | 216 | STR | | | | | | | |
| W505 | 2 | 7'-0" | 15 | STR | | | | | | | |
| W506 | 2 | 15'-0" | 31 | STR | | | | | | | |
| W507 | 4 | 4'-5" | 18 | STR | | | | | | | |
| W601 | 66 | 29'-8" | 2941 | STR | | | | | | | |
| W602 | 66 | 29'-0" | 2875 | STR | | | | | | | |
| | | | SUB-TOTAL | 8,751 | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

* DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT..

REINFORCING STEEL LIST
RETAINING WALL 7

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 8 | TOTAL 8

SHEET P.955 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:17:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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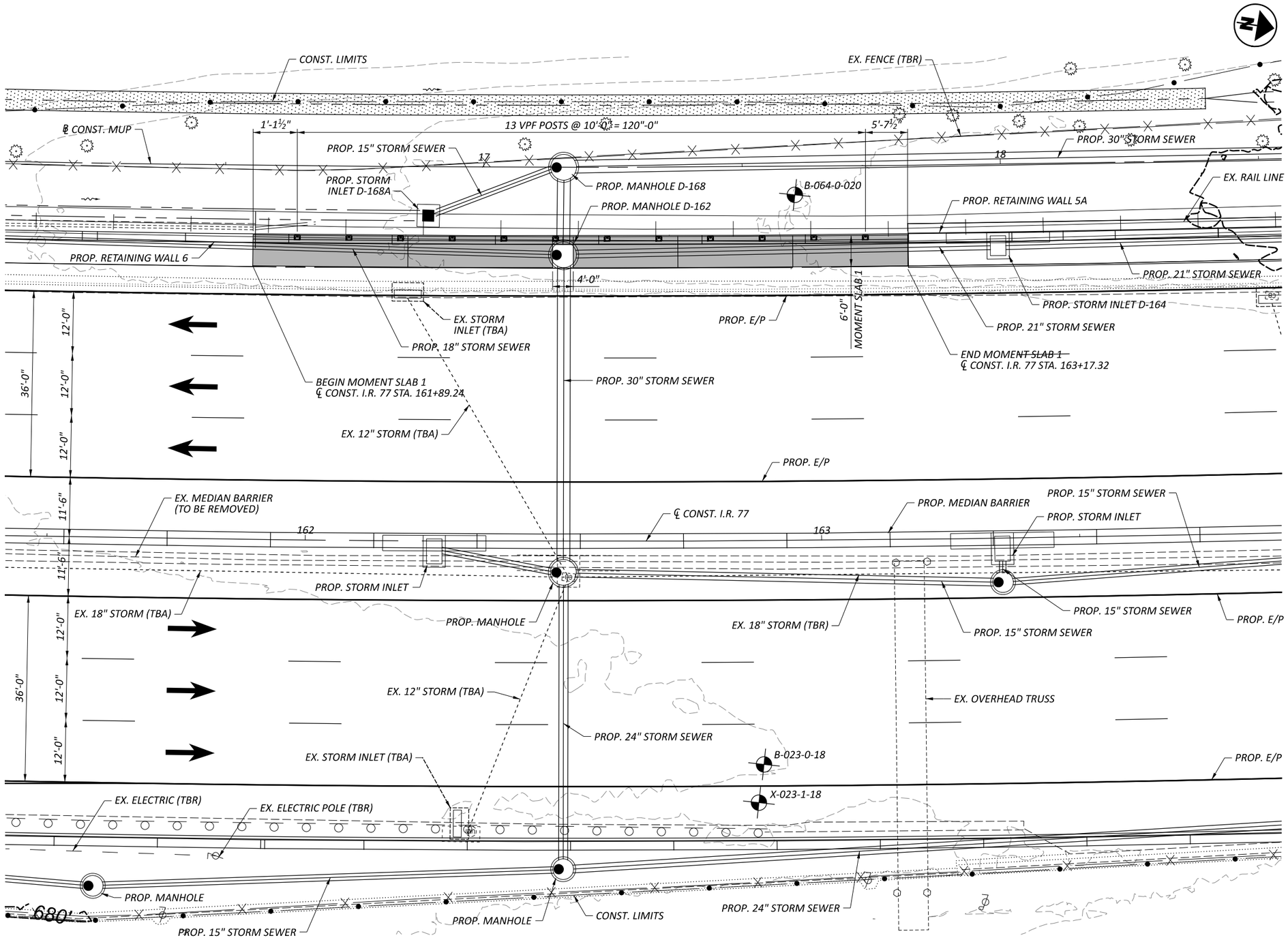



## LEGEND:

- *LIMITS OF PROPOSED MOMENT SLABS*
- *SOIL BORING OR PAVEMENT CORING LOCATION*

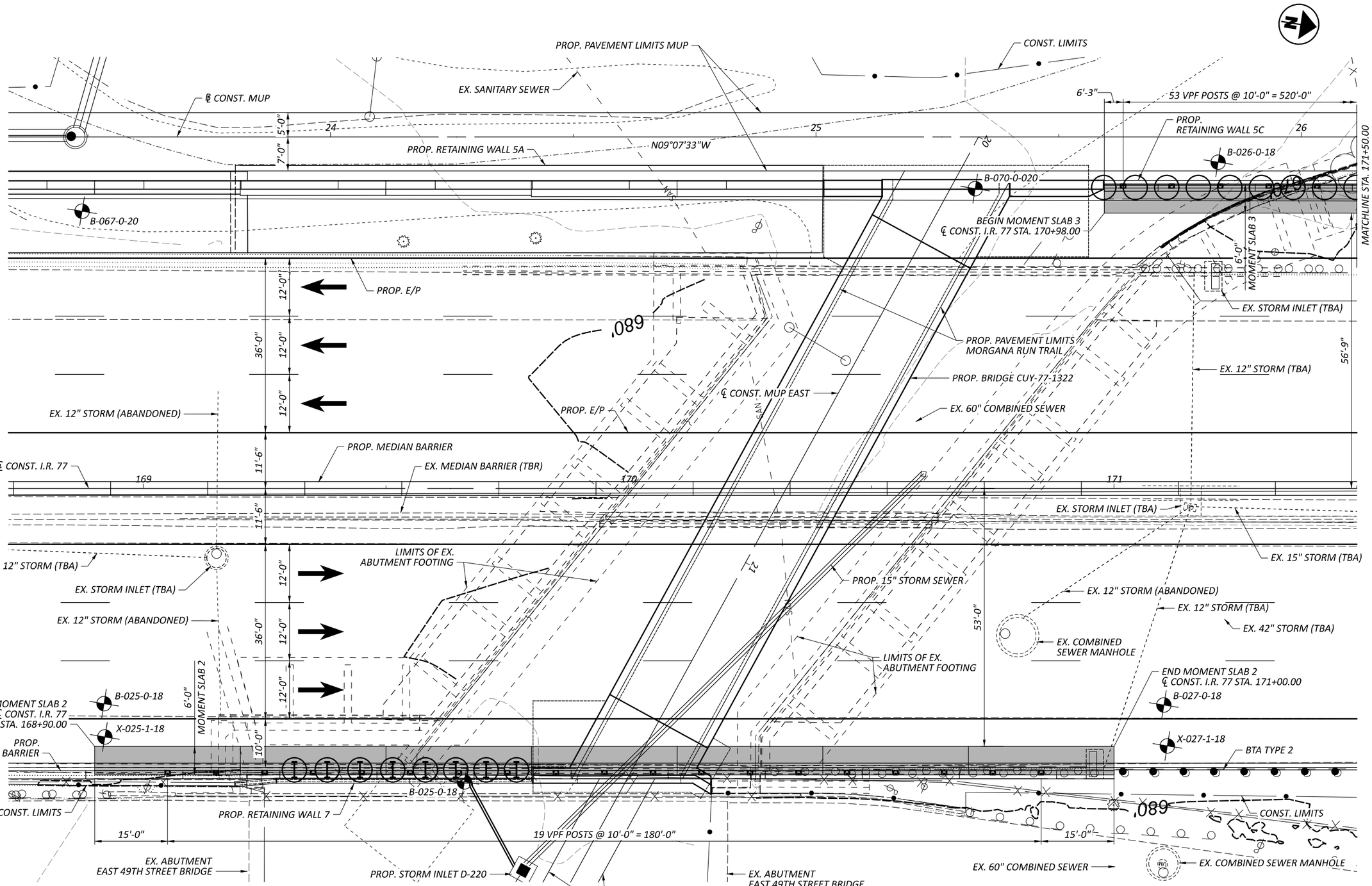
## NOTES:

1. *MOMENT SLAB 1 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.*

# GENERAL PLAN 1 OF 4
# MOMENT SLABS

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 9 |
| SHEET | P.956 |
| TOTAL | P.1135 |




## LEGEND:

- ▭ - LIMITS OF PROPOSED MOMENT SLABS
- ⌖ - SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. MOMENT SLAB 2 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.
2. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

GENERAL PLAN 2 OF 4
MOMENT SLABS

DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 2 / 9 |
| SHEET / TOTAL | P.957 / P.1135 |

CUY-77-11.41 - PART 1

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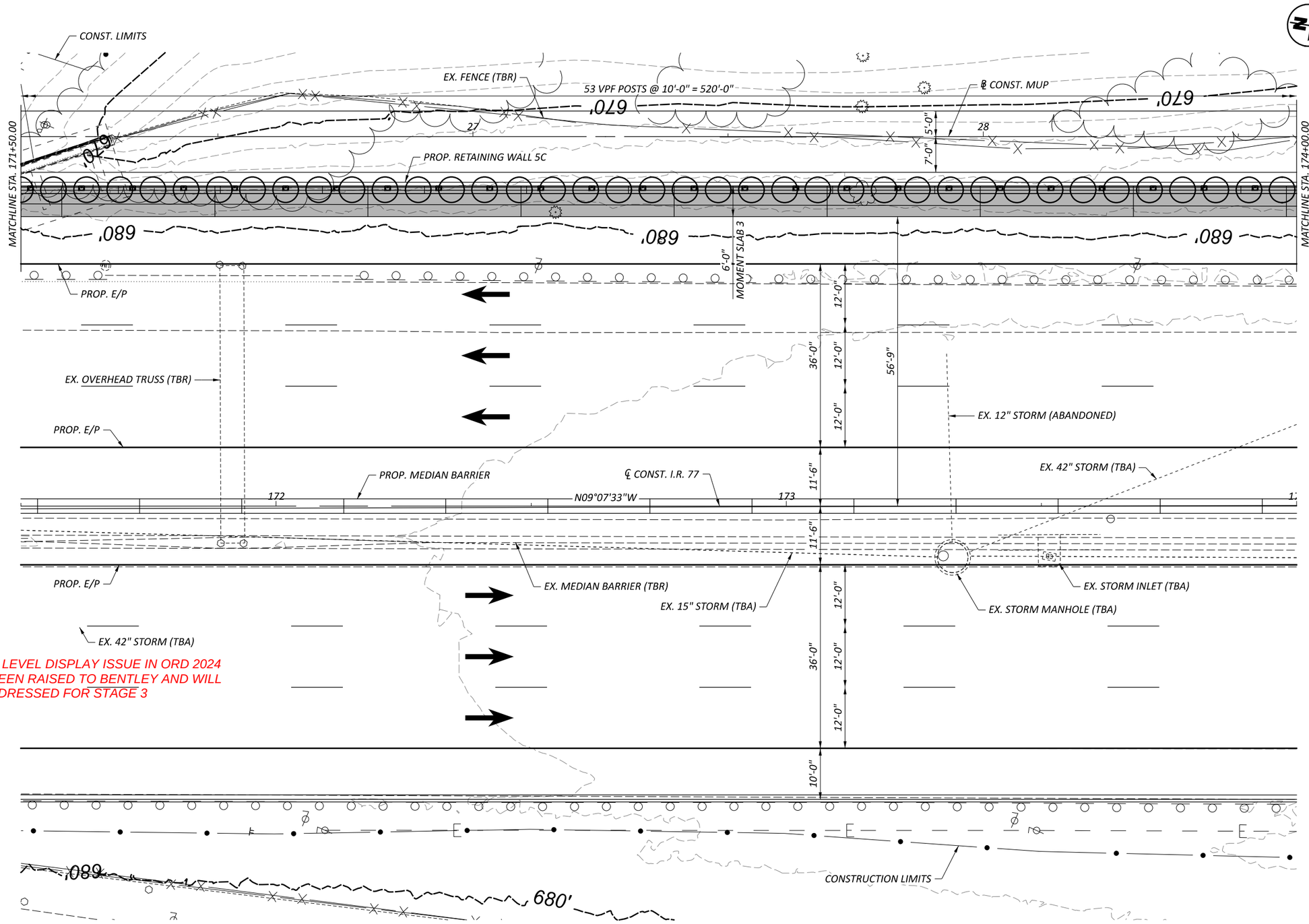


NOTE: LEVEL DISPLAY ISSUE IN ORD 2024 HAS BEEN RAISED TO BENTLEY AND WILL BE ADDRESSED FOR STAGE 3

## LEGEND:

- LIMITS OF PROPOSED MOMENT SLABS
- SOIL BORING OR PAVEMENT CORING LOCATION

## NOTES:

1. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

# GENERAL PLAN 3 OF 4
# MOMENT SLABS

CUY-77-11.41 - PART 1

MODEL: MS Plan Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:18:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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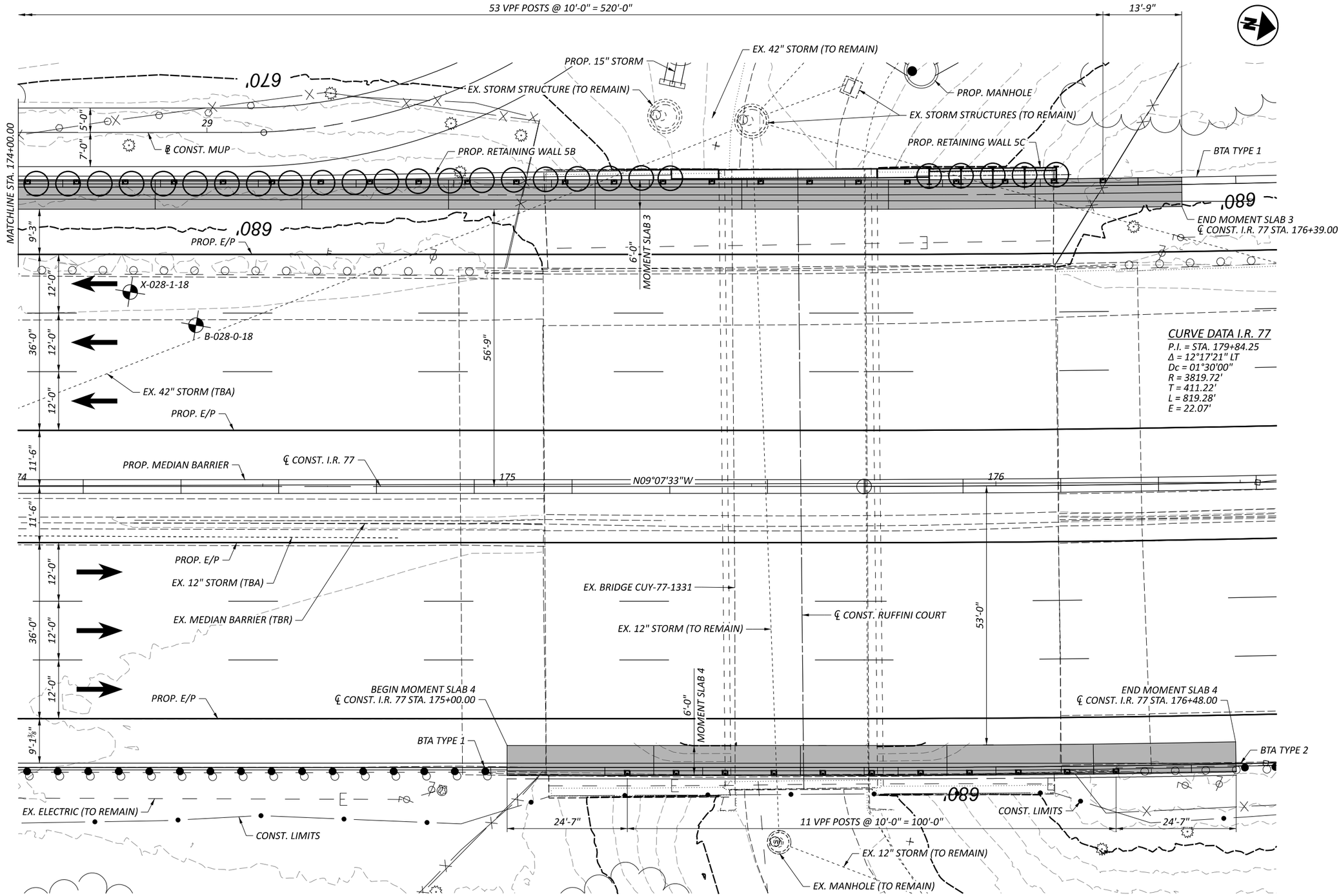
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 3 / 9 |
| SHEET / TOTAL | P.958 / P.1135 |




## CURVE DATA I.R. 77

P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3819.72'
T = 411.22'
L = 819.28'
E = 22.07'

## LEGEND:

- LIMITS OF PROPOSED MOMENT SLABS
- SOIL BORING OR PAVEMENT CORING LOCATION

## NOTE:

1. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.
2. MOMENT SLAB 4 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.

GENERAL PLAN 4 OF 4
MOMENT SLABS

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 4 / 9 |
| SHEET / TOTAL | P.959 / P.1135 |

CUY-77-11.41 - PART 1

MODEL: MS Plan Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:41:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: LBrown@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

| | | |
|---|---|---|
| BP-2.2 | DATED (REVISED) | 1-15-21 |
| SBR-1-20 | DATED (REVISED) | 7-21-23 |
| VPF-1-90 | DATED (REVISED) | 7-21-23 |

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

## ITEM 511 - QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE MOMENT SLABS. PAYMENT SHALL INCLUDE CONCRETE, TRANSVERSE JOINT DOWELS, AND CONTRACTION JOINT SAWCUTS.

## ITEM 511 - QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE MOMENT SLAB BARRIERS. PAYMENT SHALL INCLUDE CONCRETE AND CONTRACTION JOINT SAWCUTS.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE MOMENT SLAB BARRIERS AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512.

THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

## ESTIMATED QUANTITIES (MOMENT SLAB)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 53012 | | CY | CLASS QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA | 5 |
| 511 | 53012 | | CY | CLASS QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA | 5 |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 5 |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 31000 | | FT | JOINT SEALER | |
| | | | | | |
| 607 | 39900 | | FT | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC | |
| | | | | | |

CUY-77-11.41 - PART 1

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GENERAL NOTES AND ESTIMATED QUANTITIES
MOMENT SLABS

DESIGN AGENCY
TRC

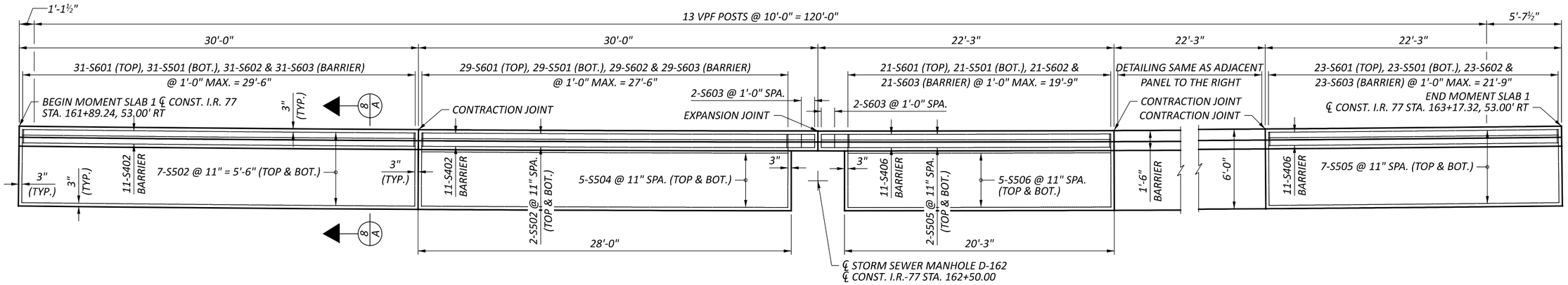
DESIGNER
JCP

REVIEWER
CJW 11/21/25

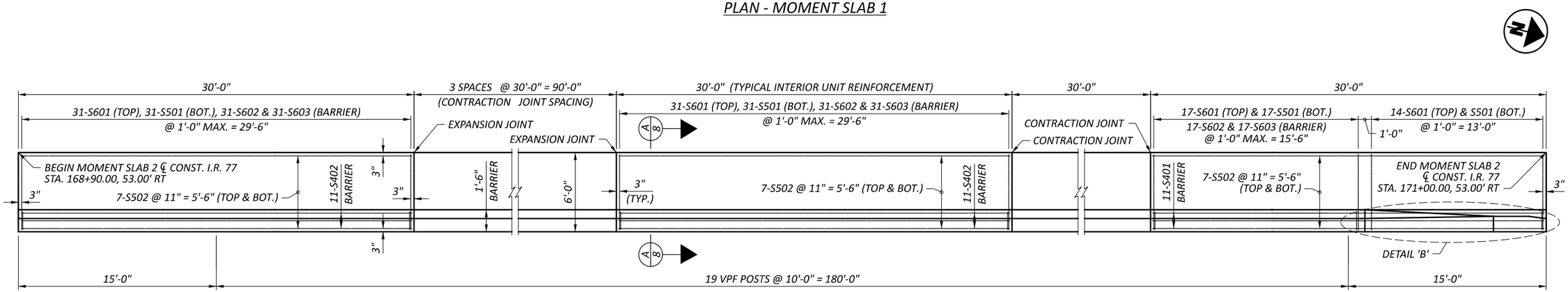
PROJECT ID
105743

SUBSET 5 | TOTAL 9

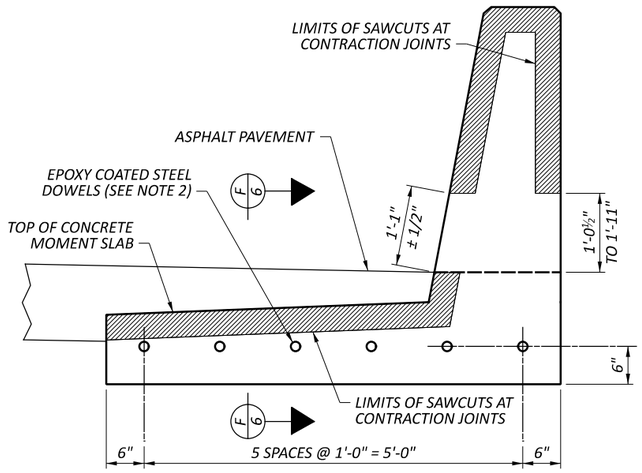
SHEET 1.1360 | TOTAL P.1135



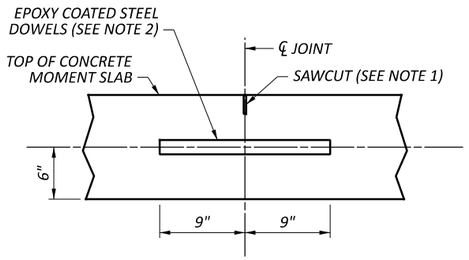

## PLAN - MOMENT SLAB 1



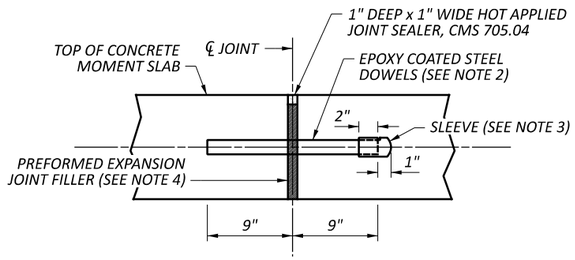

## PLAN - MOMENT SLAB 2




## JOINT DETAIL




## SECTION F-F CONTRACTION JOINT




## SECTION F-F EXPANSION JOINT

**NOTES:**

1. SAWCUTS SHALL BE 1/4" +/-1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH DEPTH OF 2 1/4" TO 2 1/2".
2. DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.
3. INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.
4. EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE MOMENT SLAB AS DETAILED.
5. FOR DETAIL 'A', DETAIL 'B', AND SECTION A-A, SEE SHEET 8 OF 9.

# REINFORCEMENT PLAN MOMENT SLABS

CUY-77-11.41 - PART 1

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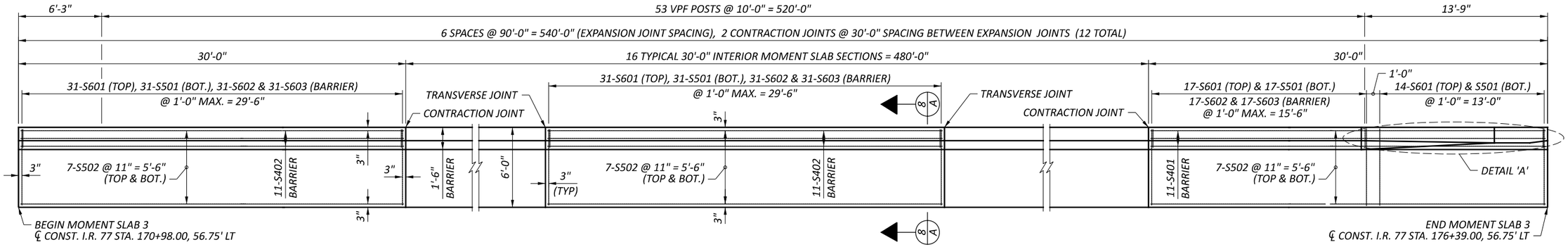
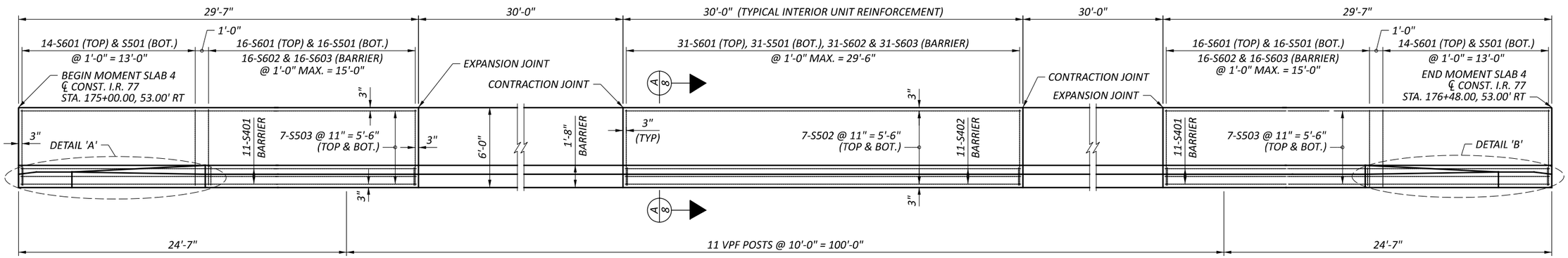
DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 6 TOTAL 9
SHEET P.961 TOTAL P.1135




## PLAN - MOMENT SLAB 3




## PLAN - MOMENT SLAB 4

| MOMENT SLAB 1 | |
|---|---|
| IR 77 STATION | BOTT. OF SLAB ELEVATION |
| 161+89.24 | 675.29 |
| 162+19.55 | 675.09 |
| 162+49.87 | 674.90 |
| 162+72.35 | 674.78 |
| 162+94.83 | 674.66 |
| 163+17.32 | 674.56 |

| MOMENT SLAB 2 | |
|---|---|
| IR 77 STATION | BOTT. OF SLAB ELEVATION |
| 168+90.00 | 677.19 |
| 169+20.00 | 677.40 |
| 169+50.00 | 677.61 |
| 169+80.00 | 677.82 |
| 170+10.00 | 678.03 |
| 170+40.00 | 678.24 |
| 170+70.00 | 678.45 |
| 171+00.00 | 678.65 |

| MOMENT SLAB 3 | |
|---|---|
| IR 77 STATION | BOTT. OF SLAB ELEVATION |
| 170+98.00 | 678.49 |
| 171+28.00 | 678.70 |
| 171+58.00 | 678.91 |
| 171+88.00 | 679.12 |
| 172+18.00 | 679.33 |
| 172+48.00 | 679.54 |
| 172+78.00 | 679.75 |
| 173+08.00 | 679.95 |
| 173+38.00 | 680.16 |
| 173+68.00 | 680.37 |
| 173+98.00 | 680.53 |
| 174+28.00 | 680.61 |
| 174+58.00 | 680.68 |
| 174+88.00 | 680.72 |
| 175+18.00 | 680.73 |
| 175+48.00 | 680.72 |
| 175+78.10 | 680.68 |
| 176+08.55 | 680.61 |
| 176+39.00 | 680.50 |

| MOMENT SLAB 4 | |
|---|---|
| IR 77 STATION | BOTT. OF SLAB ELEVATION |
| 175+00.00 | 682.28 |
| 175+29.58 | 682.58 |
| 175+59.58 | 682.86 |
| 175+89.23 | 683.10 |
| 176+18.82 | 683.29 |
| 176+48.00 | 683.43 |

**NOTES:**

1. SAWCUTS SHALL BE 1/4" +/-1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH DEPTH OF 2 1/4" TO 2 1/2".
2. DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.
3. INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.
4. EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE MOMENT SLAB AS DETAILED.
5. FOR DETAIL 'A', DETAIL 'B', AND SECTION A-A, SEE SHEET 8 OF 9.

REINFORCEMENT PLAN AND ELEVATION TABLES
MOMENT SLABS

DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 | TOTAL 9
SHEET P.962 | TOTAL P.1135

CUY-77-11.41 - PART 1

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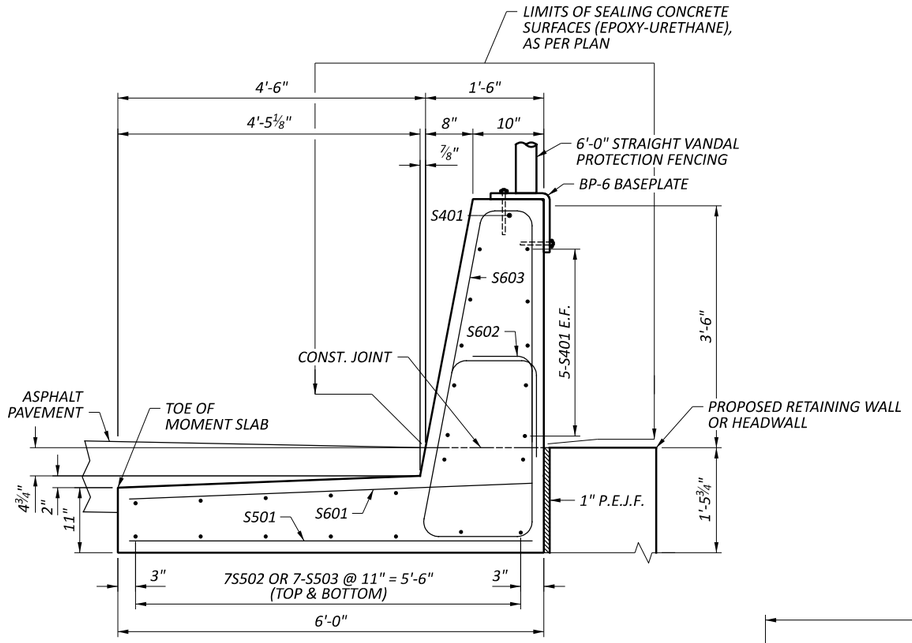
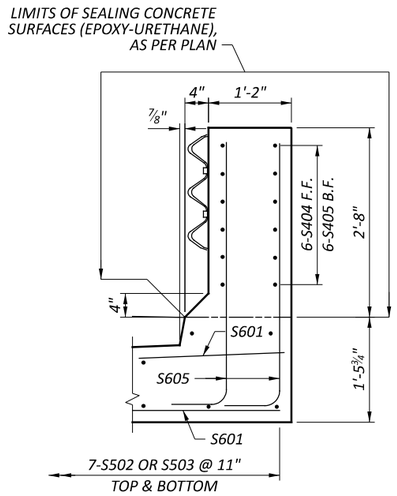
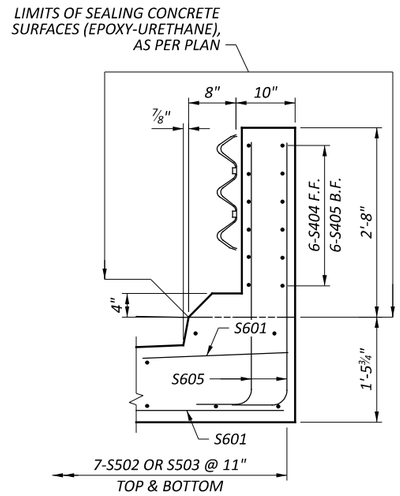


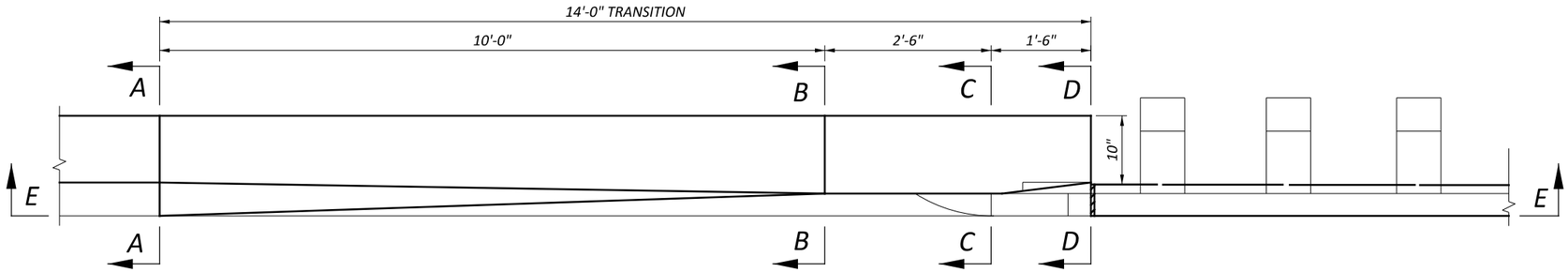

SECTION A-A




SECTION C-C

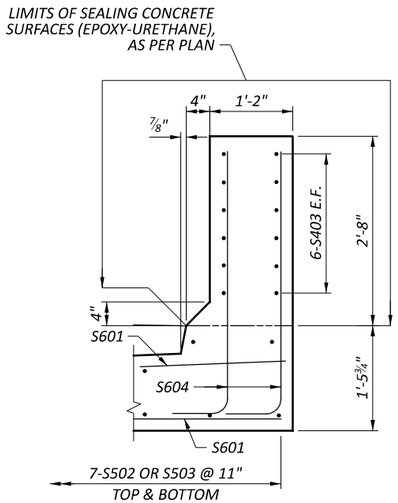



SECTION D-D

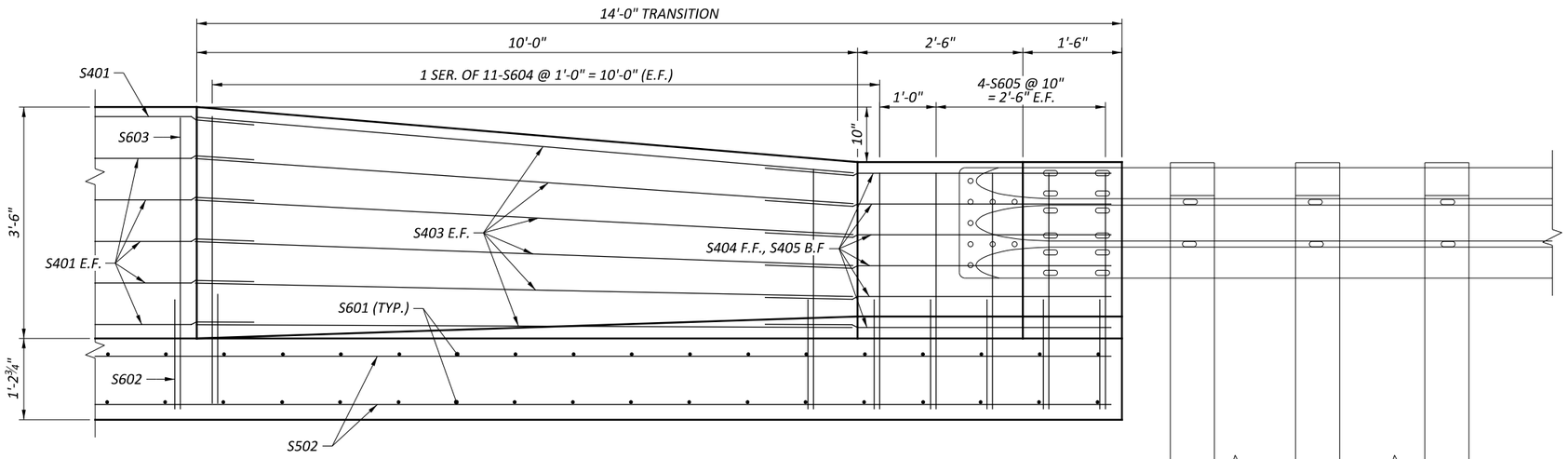



DETAIL 'A'

(DETAIL 'B' SIMILAR, OPPOSITE HAND)




SECTION B-B




SECTION E-E

**NOTES:**

1. FOR REINFORCING STEEL LIST, SEE SHEET 9 OF 9.

JOINT DETAILS AND SECTIONS
MOMENT SLABS

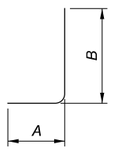
DESIGN AGENCY: TRC

| | |
|---|---|
| DESIGNER | JCP |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 8 / 9 |
| SHEET / TOTAL | P.963 / P.1135 |

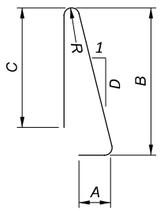
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:18:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS_WY020.dgn

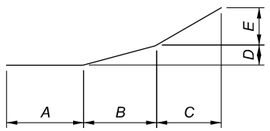
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| S401 | 44 | 16'-11" | 497 | STR | | | | | | | |
| S402 | 308 | 29'-8" | 6104 | STR | | | | | | | |
| S403 | 48 | 10'-0" | 321 | STR | | | | | | | |
| S404 | 24 | 6'-5" | 103 | 25 | 2'-6" | 2'-5" | 1'-5" | 0'-1 ½" | 0'-5" | | |
| S405 | 24 | 6'-1" | 98 | STR | | | | | | | |
| S406 | 33 | 21'-9" | 479 | STR | | | | | | | |
| | | | | | | | | | | | |
| S501 | 1055 | 5'-8" | 6235 | STR | | | | | | | |
| S502 | 410 | 29'-8" | 12686 | STR | | | | | | | |
| S503 | 28 | 29'-3" | 854 | STR | | | | | | | |
| S504 | 10 | 27'-6" | 287 | STR | | | | | | | |
| S505 | 32 | 21'-9" | 726 | STR | | | | | | | |
| S506 | 10 | 19'-9" | 206 | STR | | | | | | | |
| | | | | | | | | | | | |
| S601 | 1055 | 5'-8" | 8979 | STR | | | | | | | |
| S602 | 999 | 8'-0" | 8503 | 37 | 0'-9 ½" | 2'-7" | 0'-7" | 1'-0" | 0'-5 ¼" | | |
| S603 | 1003 | 5'-8" | 5971 | 23 | 0'-6" | 3'-3" | 3'-3" | 0'-5" | | 0'-2" | |
| | 8 | 4'-6" | | | | 3'-8" | | | | | |
| S604 | SER. OF | TO | 650 | 1 | 1'-0" | TO | | | | | 0'-1" |
| | 11 | 5'-4" | | | | 4'-6" | | | | | |
| S605 | 32 | 4'-6" | 216 | 1 | 1'-0" | 3'-8" | | | | | |
| | | | | | | | | | | | |
| | | TOTAL | 52915 | | | | | | | | |




TYPE-1




TYPE-23

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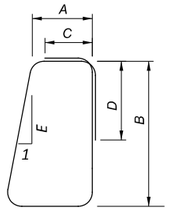



TYPE-37

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

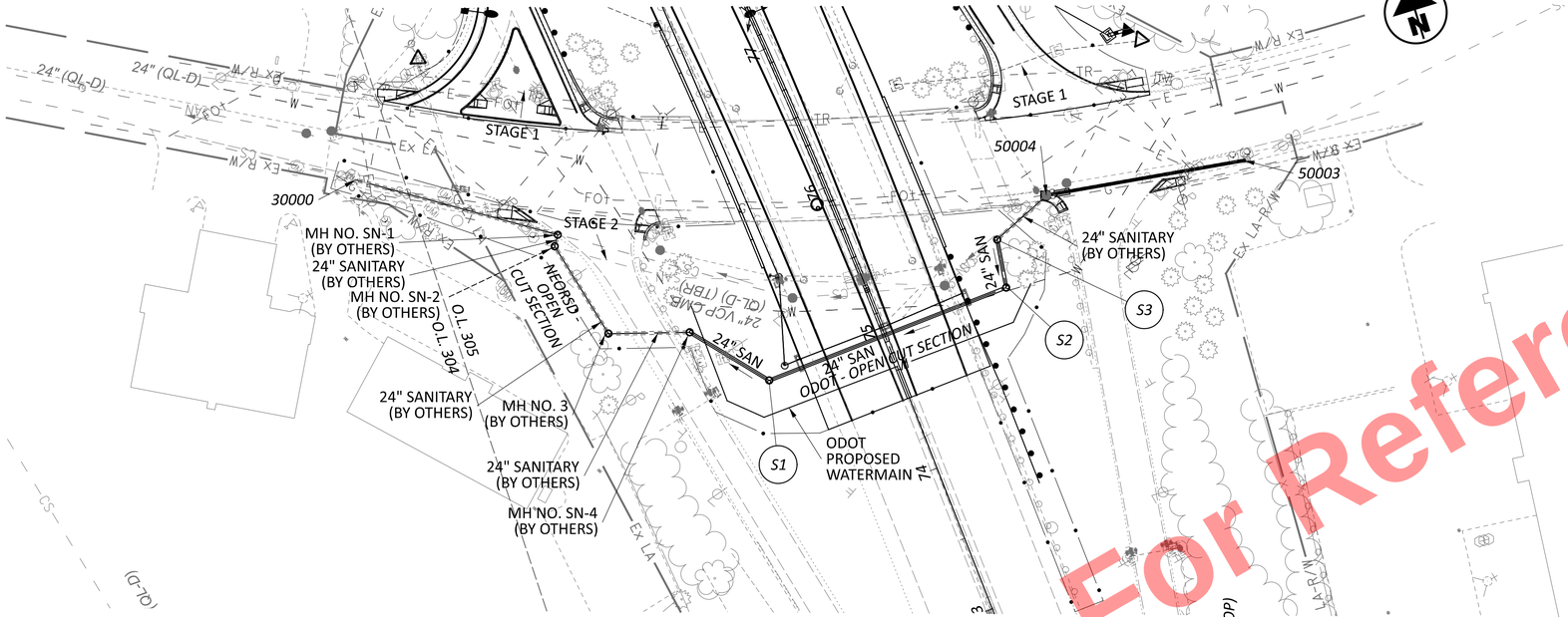
SUBSET 9 | TOTAL 9

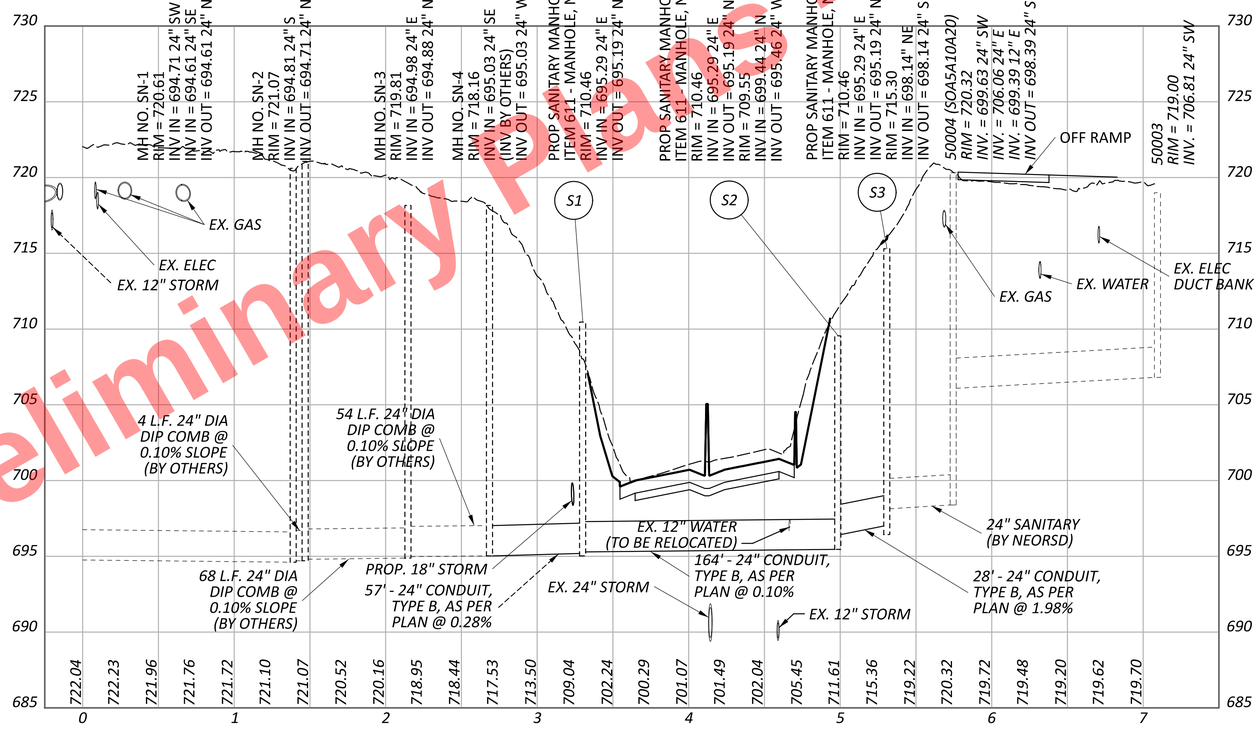
SHEET P.964 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Steel Reinforcing List PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:18:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS1_WL001.dgn

NOTE:
WORK DESIGNATED "BY OTHERS" IS PROVIDED FOR REFERENCE ONLY AND IS WORK ASSOCIATED WITH THE NEORSD SOUTHERLY REGULATORS AND RELIEF SEWERS (SRRS) PROJECT, PROJECT NO. 1668




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# SANITARY SEWER REHABILITATION PLAN AND PROFILE

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | MAW |
| REVIEWER | AKM 11-17-25 |
| PROJECT ID | 105743 |
| SHEET | P.965 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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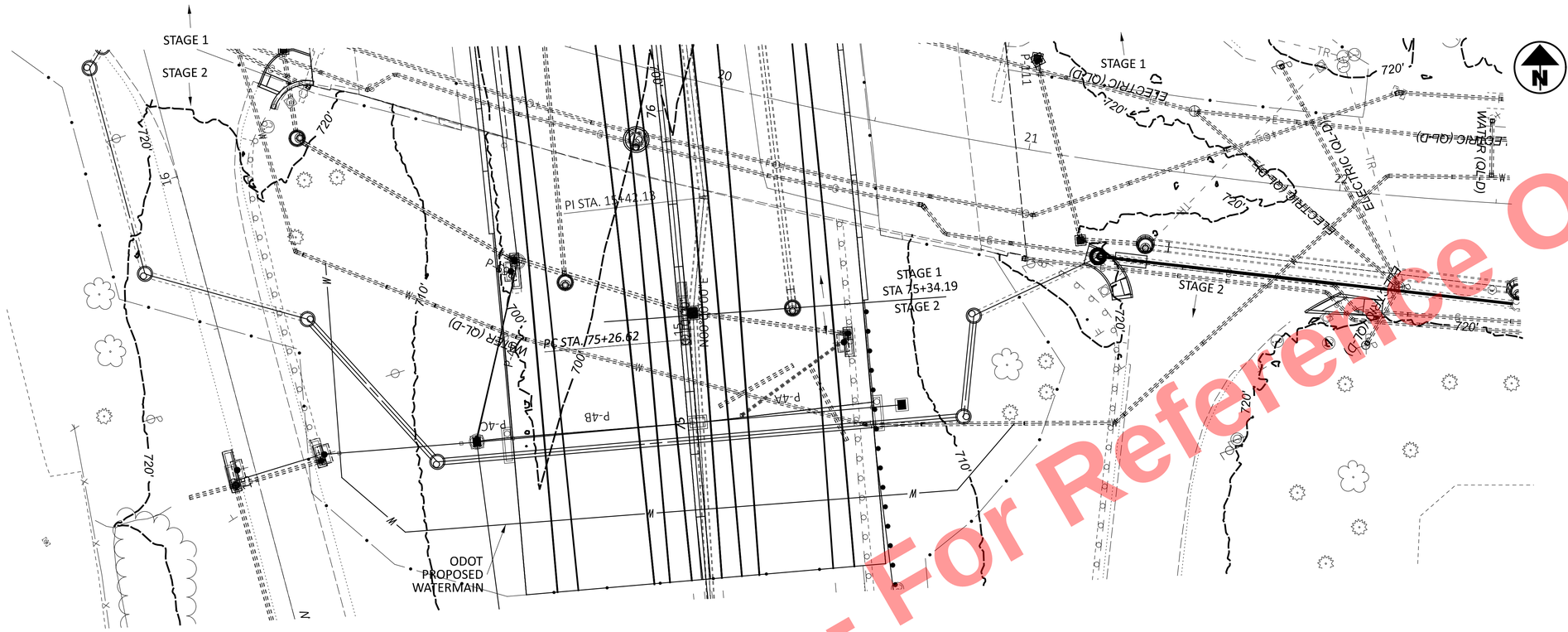
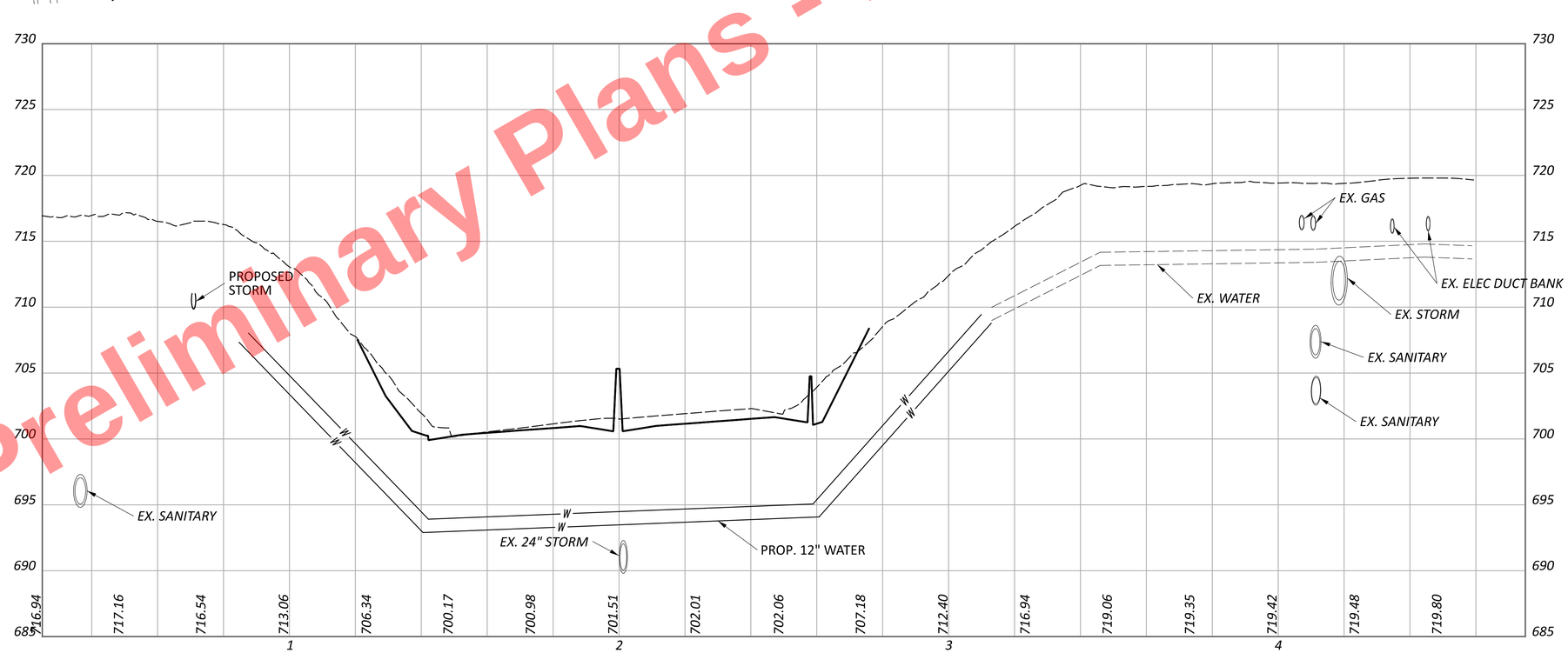
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Drainage\Sheets\105743_DP100.dgn




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

# WATERMAIN LOWERING PLAN AND PROFILE

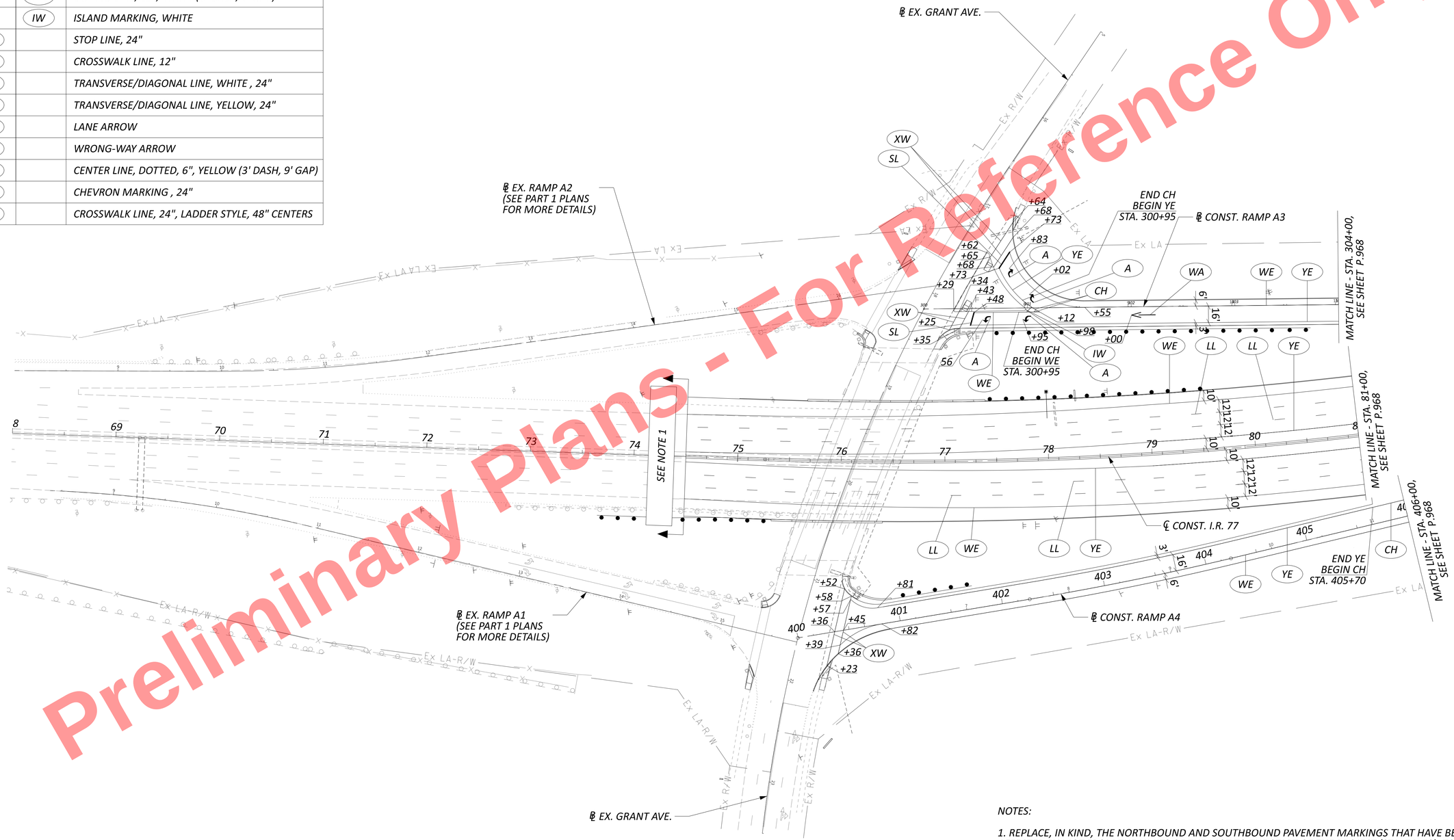
DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 11-17-25
PROJECT ID 1025473
SHEET P.966 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Water - Water [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 11:53:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Steve.Will@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Engineering\Drainage\Sheets\105743_DP101.dgn

| ITEM 646 | ITEM 807 | ODOT LINE SPECIFICATIONS |
|---|---|---|
| | WE | EDGE LINE, 6", WHITE |
| | YE | EDGE LINE, 6", YELLOW |
| | LL | LANE LINE, 6" |
| | CH | CHANNELIZING LINE, 12" |
| | DW | DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) |
| | CHD | DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) |
| | IW | ISLAND MARKING, WHITE |
| SL | | STOP LINE, 24" |
| XW | | CROSSWALK LINE, 12" |
| WT | | TRANSVERSE/DIAGONAL LINE, WHITE , 24" |
| YT | | TRANSVERSE/DIAGONAL LINE, YELLOW, 24" |
| A | | LANE ARROW |
| WA | | WRONG-WAY ARROW |
| CLD | | CENTER LINE, DOTTED, 6", YELLOW (3' DASH, 9' GAP) |
| CV | | CHEVRON MARKING , 24" |
| XWL | | CROSSWALK LINE, 24", LADDER STYLE, 48" CENTERS |




Preliminary Plans - For Reference Only

*NOTES:*

*1. REPLACE, IN KIND, THE NORTHBOUND AND SOUTHBOUND PAVEMENT MARKINGS THAT HAVE BEEN AFFECTED BY MOT FROM THE LIMITS OF THE MOT TO THE START OF THE PROJECT (STA. 74+50). TO COVER THIS WORK, THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED WITH THE ESTIMATE:*

| | |
|---|---|
| *ITEM 807 - EDGE LINE, 6", WHITE* | *1.0 MI.* |
| *ITEM 807 - EDGE LINE, 6", YELLOW* | *1.0 MI.* |
| *ITEM 807 - LANE LINE, 6"* | *2.0 MI.* |

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 68+00 TO STA. 81+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 1 |
| TOTAL | 28 |
| SHEET | P.967 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

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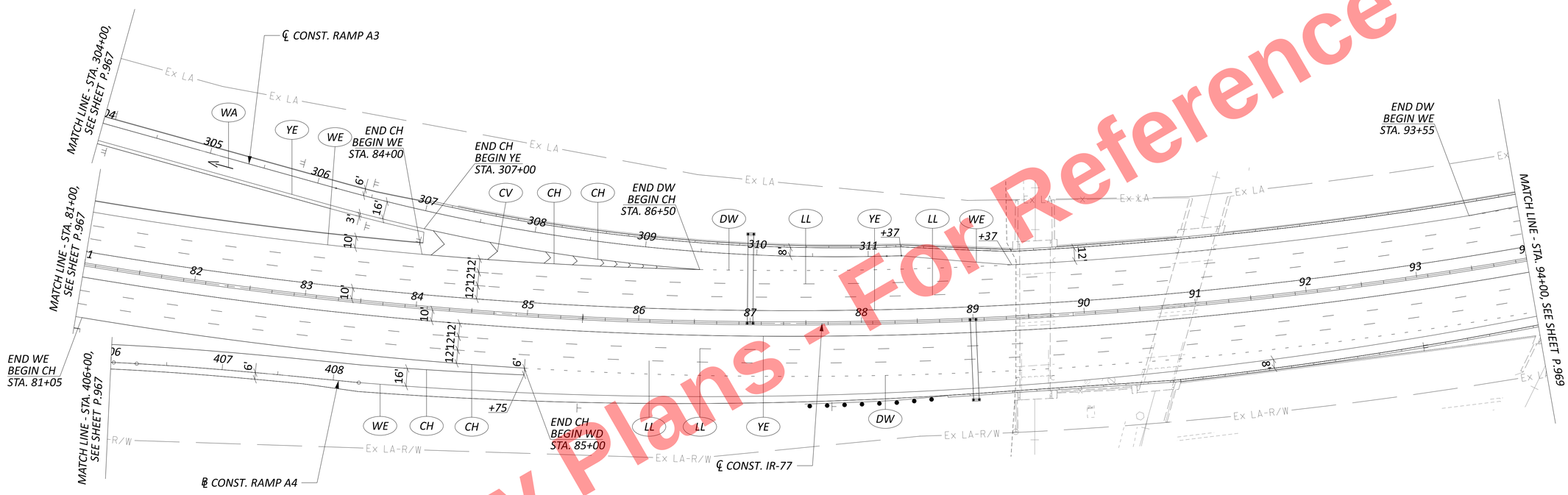
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP101.dgn




Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

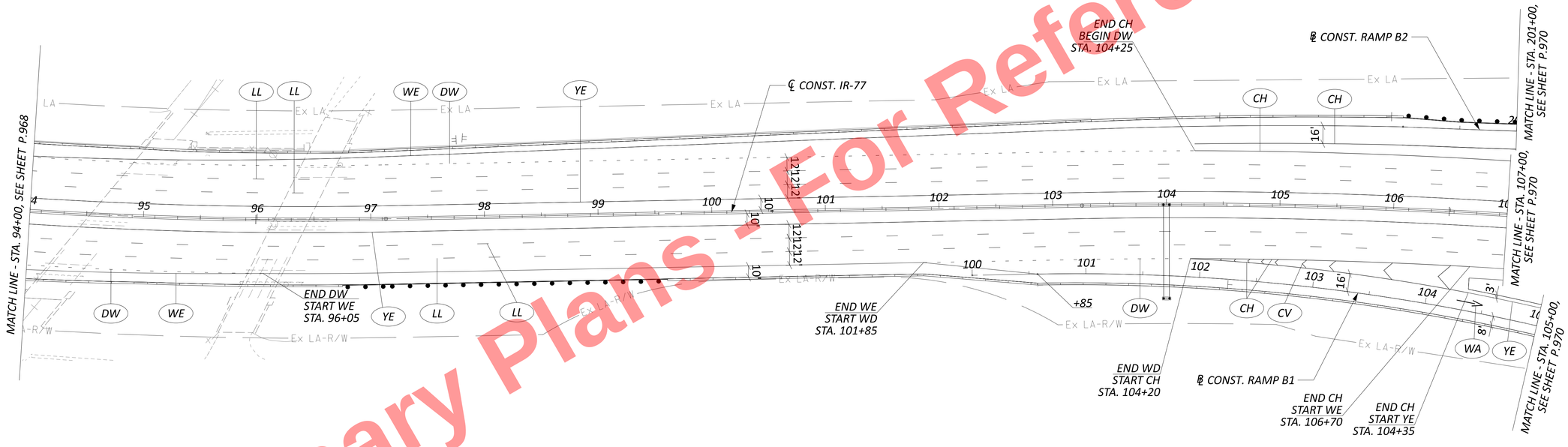
# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 81+00 TO STA. 94+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 2 |
| TOTAL | 28 |
| SHEET | P.968 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:51:34 AM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP102.dgn




Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 94+00 TO STA. 107+00

DESIGN AGENCY
Lanham Engineering LLC

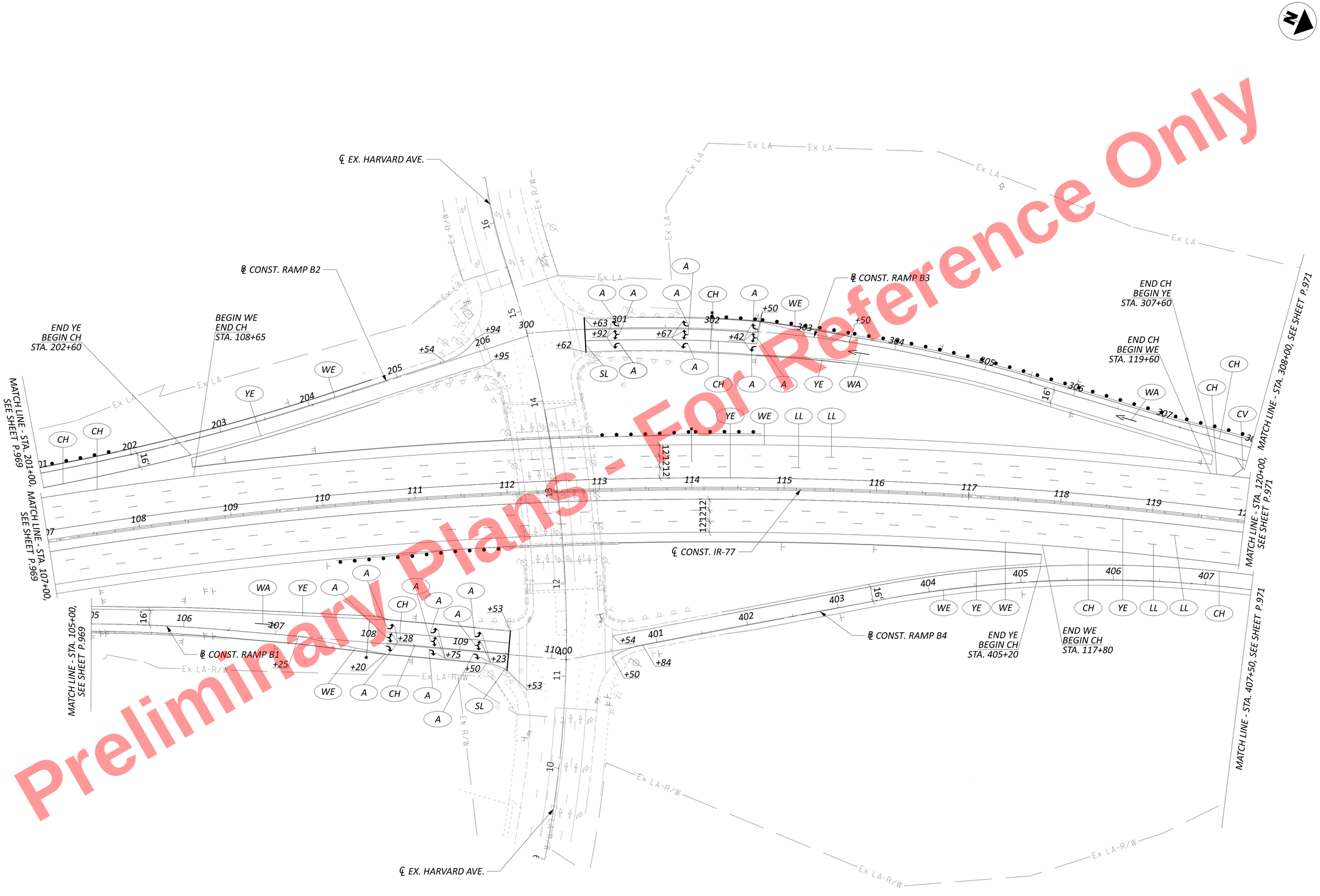
| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 3 / 28 |
| SHEET / TOTAL | P.969 / 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:59:49 AM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP103.dgn

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 107+00 TO STA. 120+00

HORIZONTAL SCALE IN FEET
0 25 50 100




Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:42:21 AM RETTIG, JACOB
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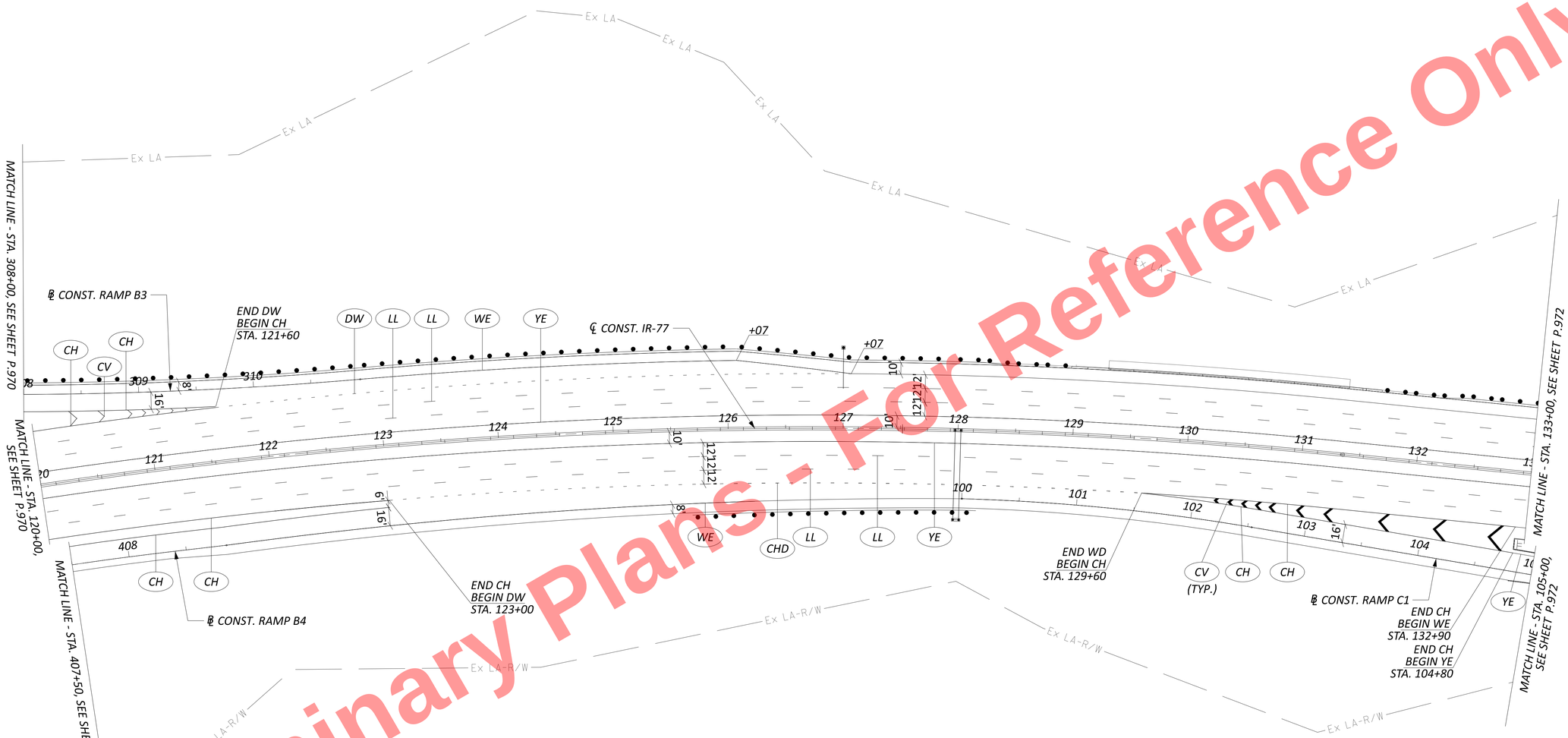
DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 4 |
| TOTAL | 28 |
| SHEET | P.970 |
| TOTAL | 1135 |




Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 120+00 TO STA. 133+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 5 / 28 |
| SHEET / TOTAL | P.971 / 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:04:48 AM RETTIG, JACOB
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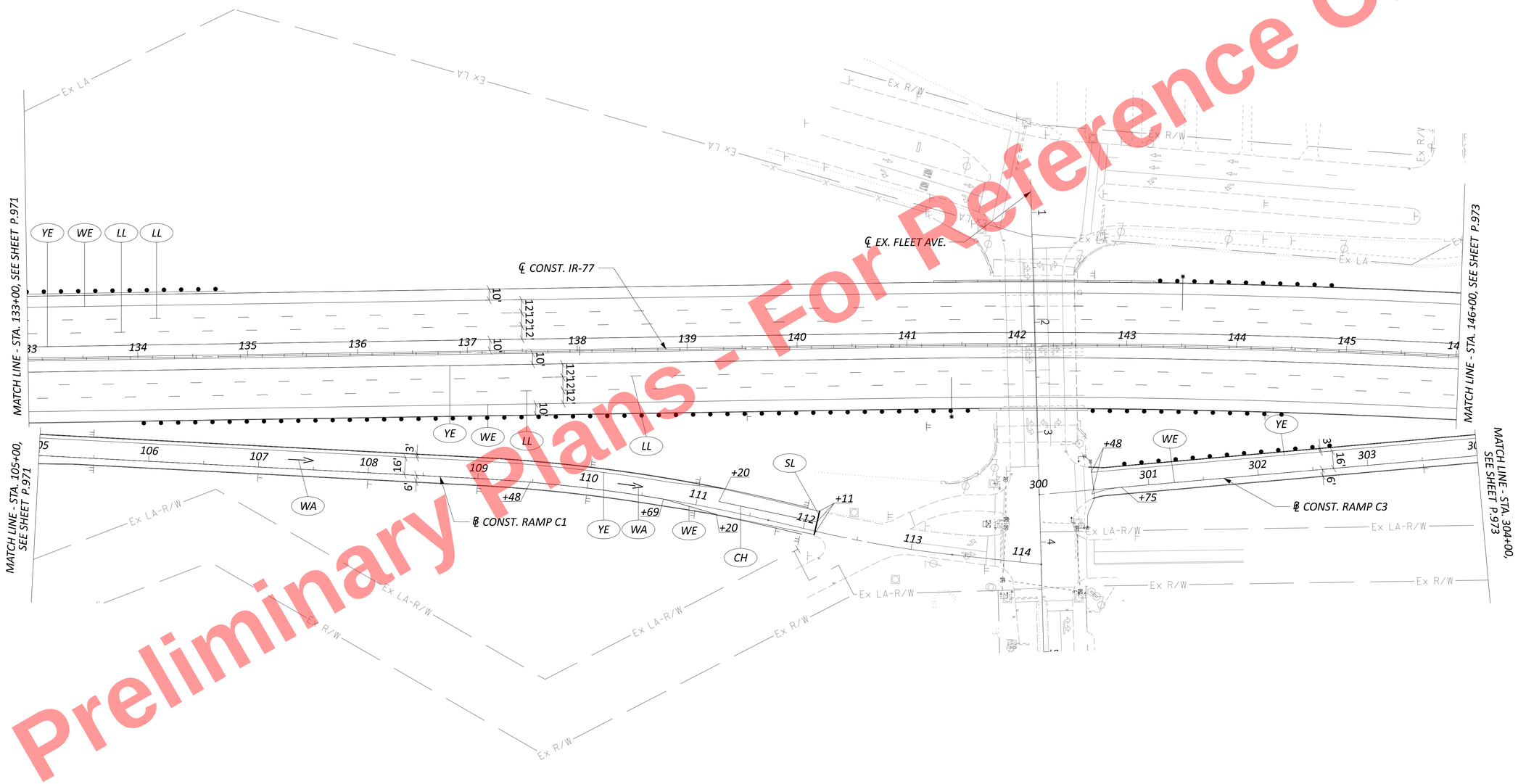


Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
## IR-77 STA. 133+00 TO STA. 146+00

DESIGN AGENCY
Lanham ENGINEERING LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 6 |
| TOTAL | 28 |
| SHEET | P.972 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:15:07 AM RETTIG, JACOB
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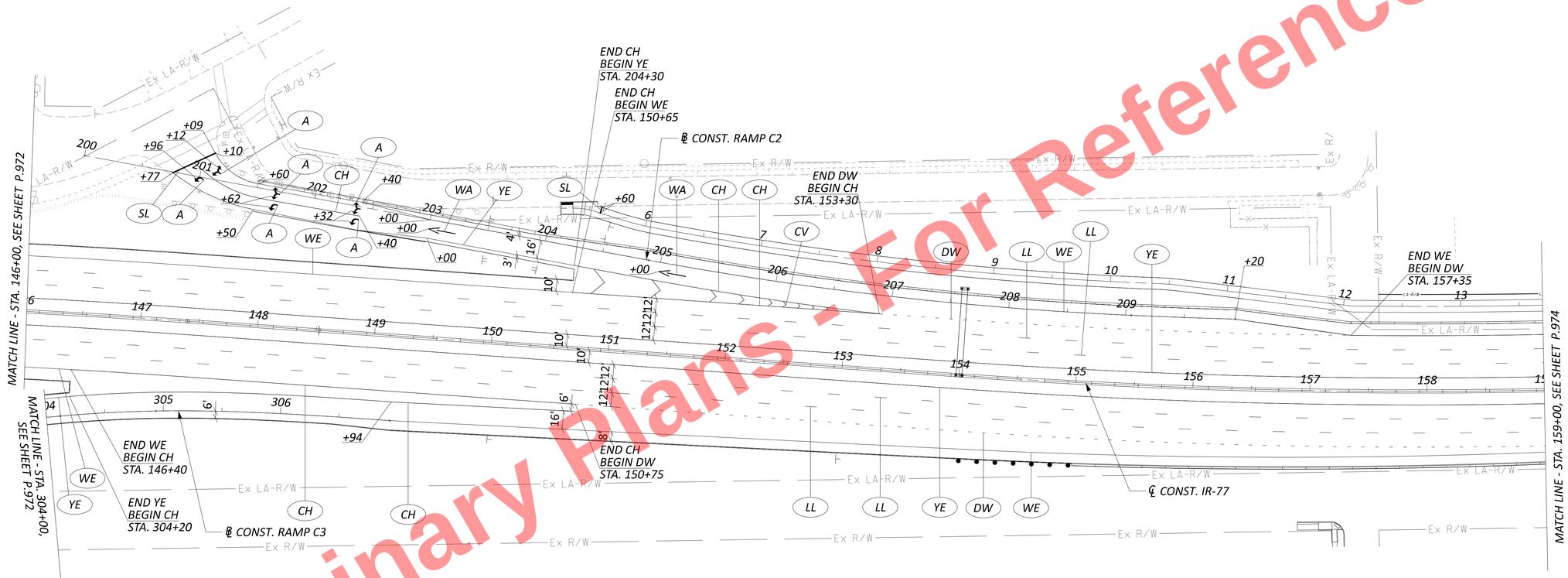



Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 146+00 TO STA. 159+00

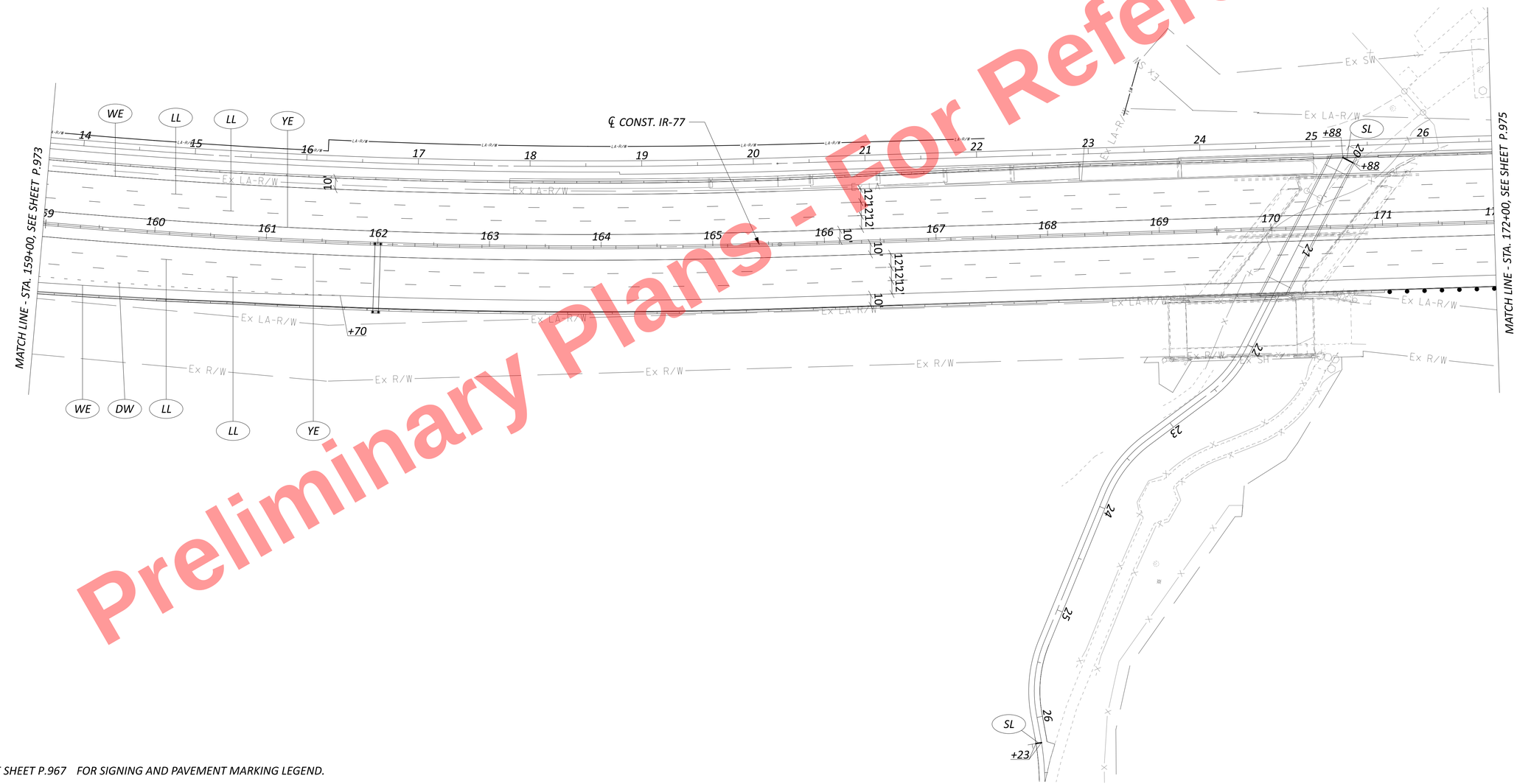
DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 7 |
| TOTAL | 28 |
| SHEET | P.973 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:10:24 AM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP107.dgn

Preliminary Plans - For Reference Only




*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 -P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
## IR-77 STA. 159+00 TO STA. 172+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | TOTAL |
| 8 | 28 |
| SHEET | TOTAL |
| P.974 | 1135 |

CUY-77-11.41 - PART 1

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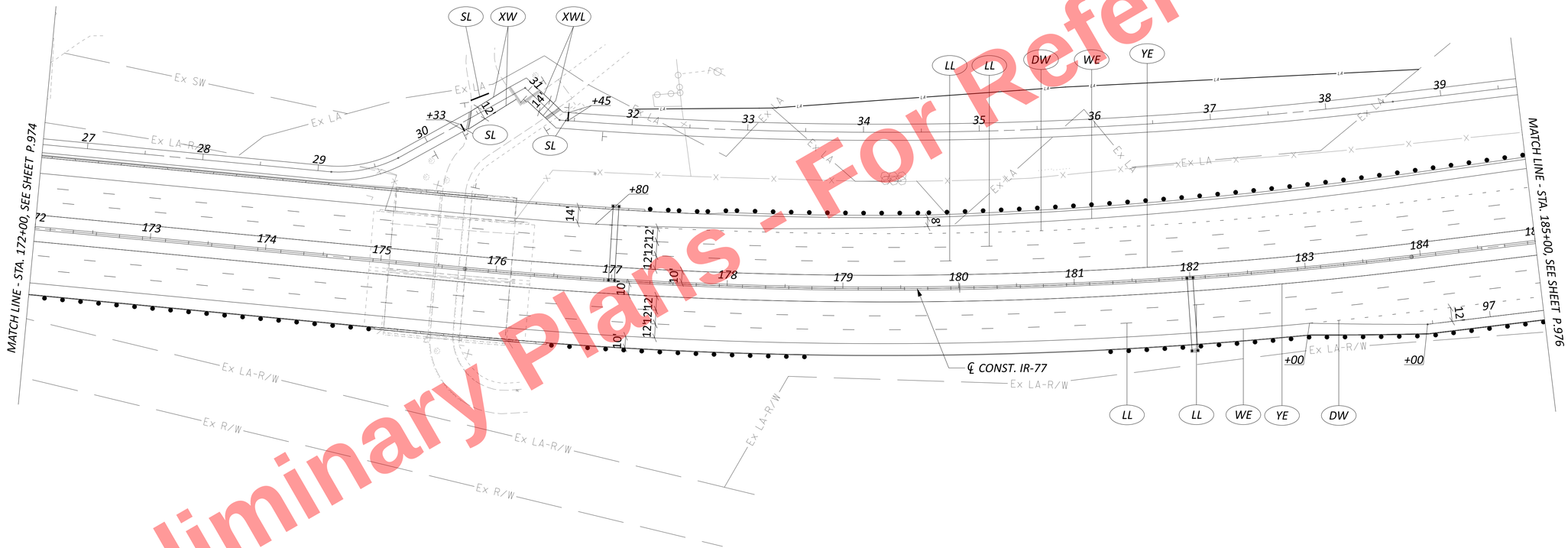


Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
## IR-77 STA. 172+00 TO STA. 185+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 9 |
| TOTAL | 28 |
| SHEET | P.975 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:30:50 AM RETTIG, JACOB
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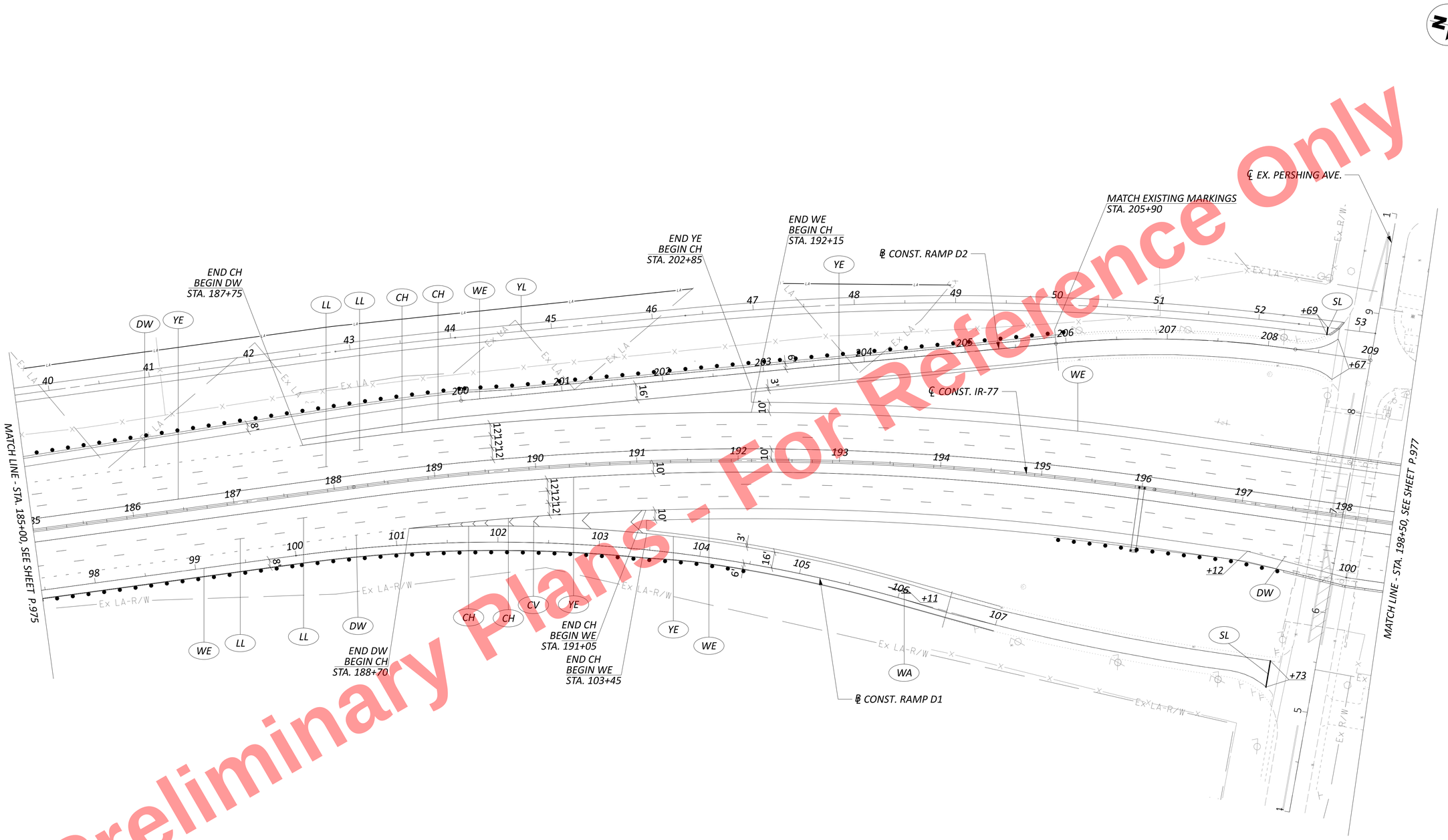



Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 -P.992 FOR SIGNING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 185+00 TO STA. 198+50

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 10 / 28 |
| SHEET / TOTAL | P.976 / 1135 |

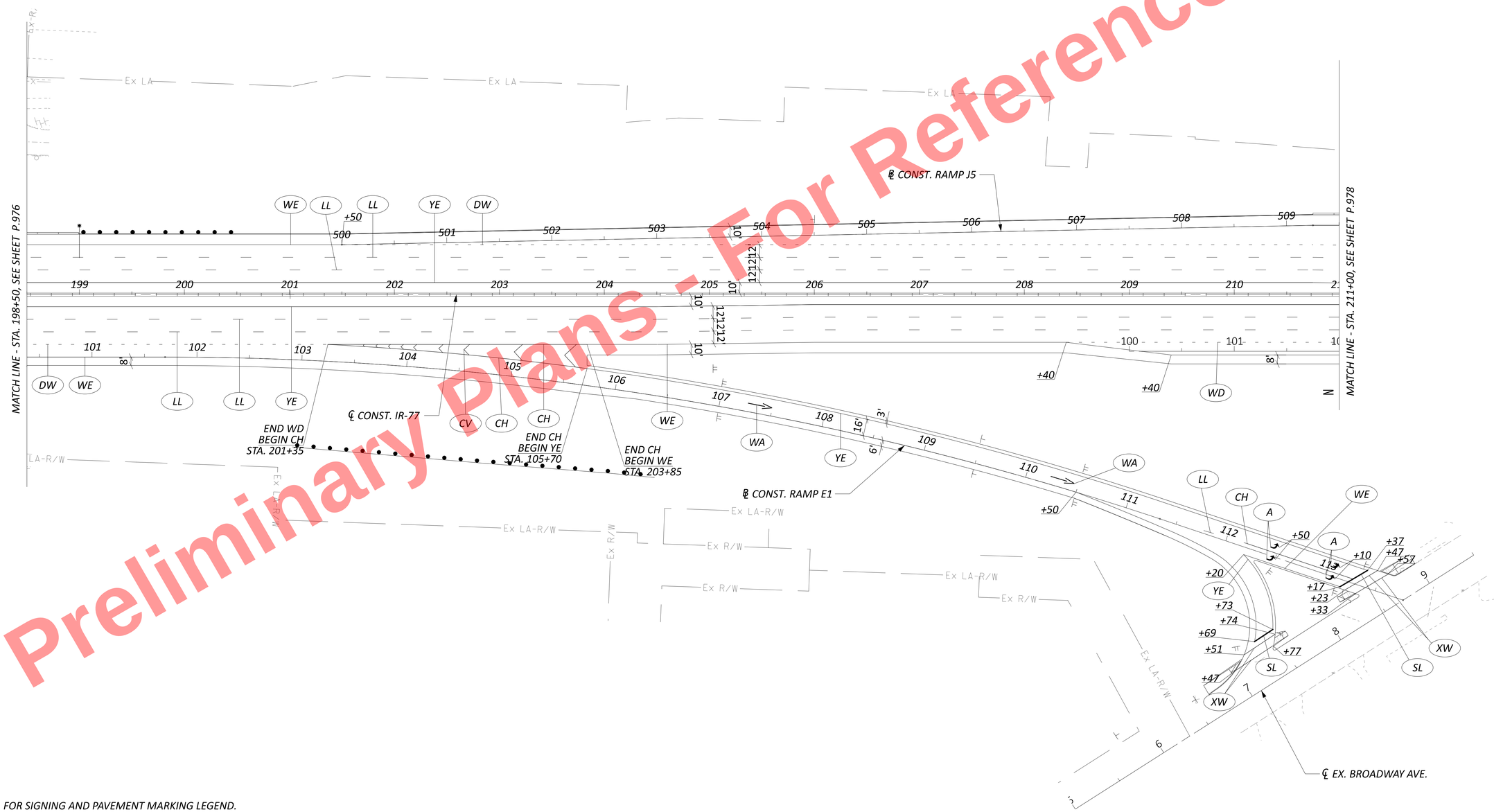
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 9:34:49 AM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP110.dgn

Preliminary Plans - For Reference Only

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 198+50 TO STA. 211+00

HORIZONTAL SCALE IN FEET
0 25 50 100




SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.980 -P.992 FOR SIGNING PLAN.

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 11 |
| TOTAL | 28 |
| SHEET | P.977 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 12:44:15 PM RETTIG, JACOB
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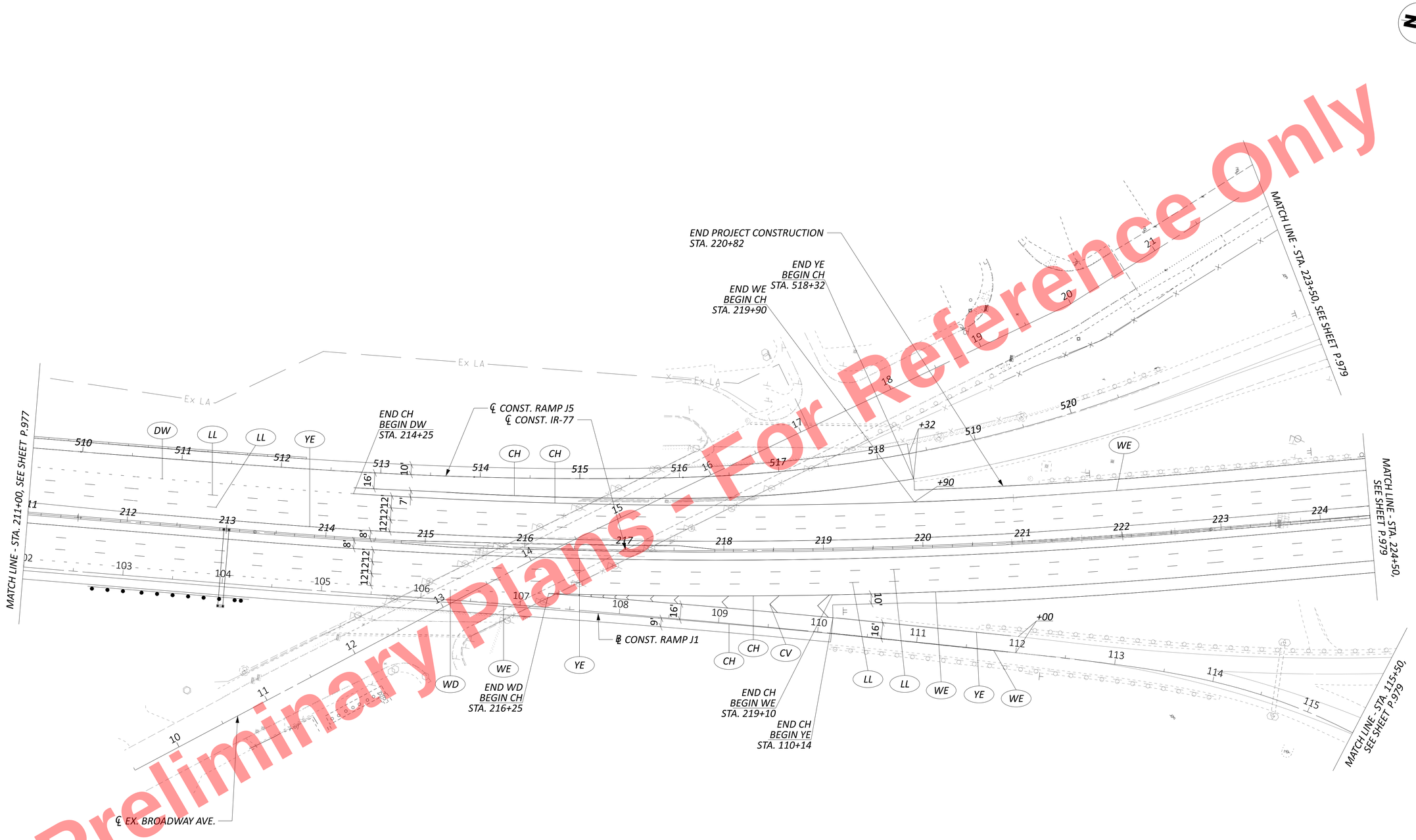


Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.980 -P.992 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 211+00 TO STA. 224+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 12 / 28 |
| SHEET / TOTAL | P.978 / 1135 |

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 10:58:38 AM RETTIG, JACOB
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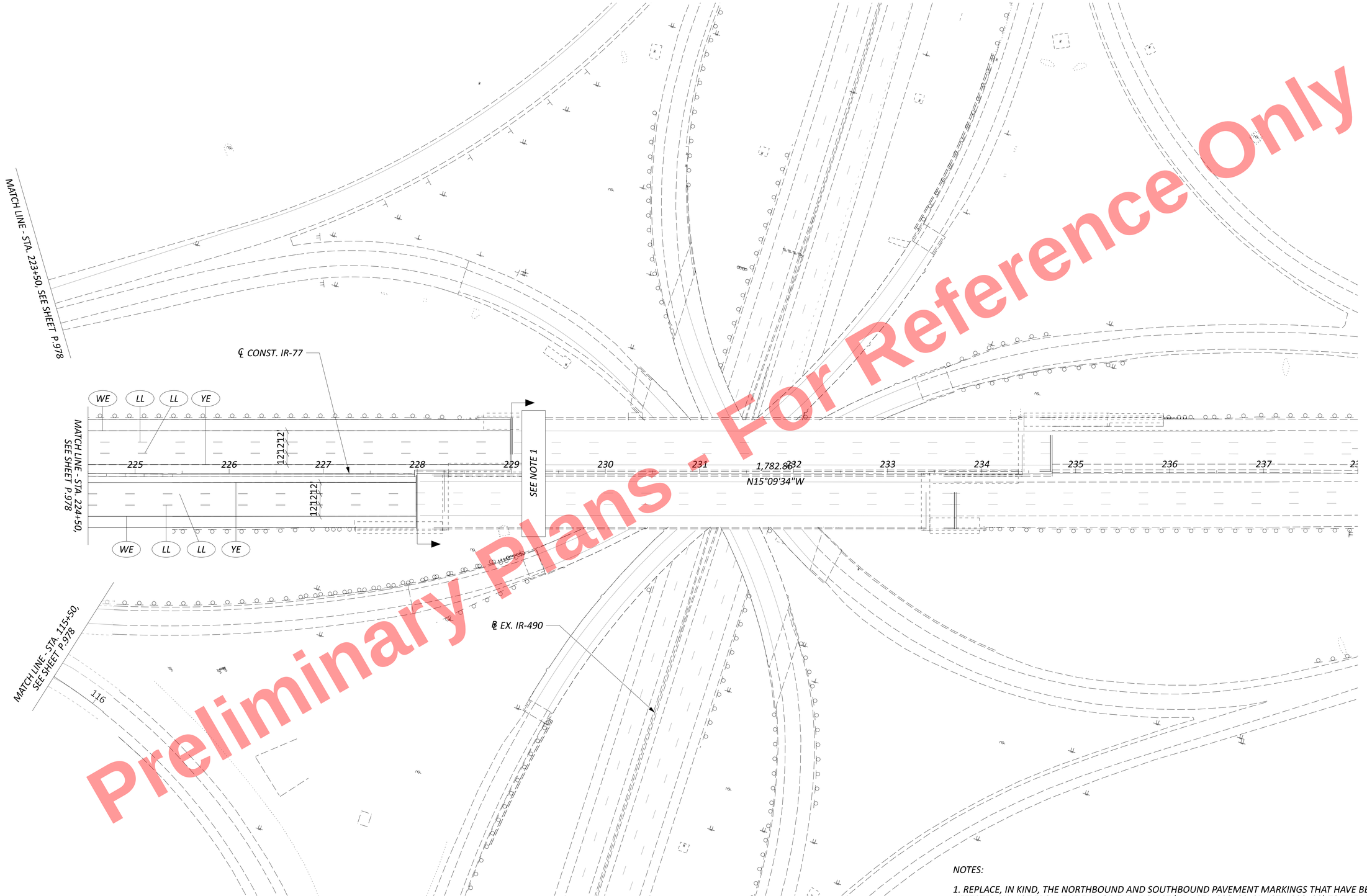


Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.980 - P.992 FOR SIGNING PLAN.*

*NOTES:*

*1. REPLACE, IN KIND, THE NORTHBOUND AND SOUTHBOUND PAVEMENT MARKINGS THAT HAVE BEEN AFFECTED BY MOT FROM THE END OF THE PROJECT (NB - STA. 228+00, SB - STA. 229+00) TO THE LIMITS OF THE MOT. TO COVER THIS WORK, THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED WITH THE ESTIMATE:*

| | |
|---|---|
| *ITEM 807 - EDGE LINE, 6", WHITE* | *1.0 MI.* |
| *ITEM 807 - EDGE LINE, 6", YELLOW* | *1.0 MI.* |
| *ITEM 807 - LANE LINE, 6"* | *2.0 MI.* |

HORIZONTAL SCALE IN FEET
0 25 50 100

# PAVEMENT MARKING PLAN - IR-77
# IR-77 STA. 224+50 TO STA. 238+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 13 |
| TOTAL | 28 |
| SHEET | P.979 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 11:02:10 AM RETTIG, JACOB
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CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

℄ EX. GRANT AVE.

℄ EX. RAMP A2
(SEE PART 1 PLANS
FOR MORE DETAILS)

℄ EX. RAMP A1
(SEE PART 1 PLANS
FOR MORE DETAILS)

℄ CONST. RAMP A3

℄ CONST. RAMP A4

℄ CONST. I.R. 77

D10-5-18
STA. 74+25

NORTH MILE 158.4

SOUTH MILE 158.4

E1-H5P (100" X 30")

EXIT 157 Brecksville Rd Granger Rd 1 MILE

(216" X 150")
STA. 78+00
(CANTILEVER MTD.)

M3-3-36
M1-1-36-2
R14-3-36
STA. 78+60

D3-H5-36
STA. 303+30

R6-1R-36
R5-1-36
STA. 300+50

R6-1L-36

R5-1-36
R6-1R-36
STA. 300+95

(RELOCATED)

W4-1L-36
STA. 77+75

D10-H5a-30
STA. 403+50

MATCH LINE - STA. 304+00,
SEE SHEET P.981

MATCH LINE - STA. 81+00,
SEE SHEET P.981

MATCH LINE - STA. 406+00,
SEE SHEET P.981

Harvard Ave
Newburgh Hts
¾ MILE
EXIT 159A

Grant Ave
Cuyahoga Hts
EXIT 158

EXIT 158

Grant Ave EAST WEST

Downtown NORTH 77 NORTH Downtown

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 68+00 TO STA. 81+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER JAR
REVIEWER DKA 10-31-25
PROJECT ID 105107
SUBSET 14 TOTAL 28
SHEET P.980 TOTAL 1135

Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 81+00 TO STA. 94+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 15 / 28 |
| SHEET / TOTAL | P.981 / 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 11:09:59 AM RETTIG, JACOB
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Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.

MATCH LINE - STA. 94+00, SEE SHEET P.981

NORTH 77 MILE 158 .8

SOUTH 77 MILE 158 .8

D10-5-18
STA. 96+00

EXIT 158
Grant Ave
Cuyahoga Hts
¼ MILE

SPEED LIMIT 60

R2-1-36
STA. 97+75

SPEED LIMIT 60

℄ CONST. IR-77

Toledo
2 MILES
490 TO 71
EXIT 16 1B

E1-5P (108" X 30")

Fleet Ave
½ MILE
EXIT 159B

E1-5P (120" X 30")
(156" X 72")
STA. 104+00
(TRUSS MTD.)

Harvard Ave
Newburgh Hts
EXIT 159A

E1-5P (120" X 30")
(252" X 72")

D10-3-12
STA. 102+25

MILE 159

D10-3-12
STA. 104+50

MILE 159

R1-2-36
STA. 106+00

NORTH 77 MILE 159 .0

SOUTH 77 MILE 159 .0

D10-5-18
STA. 106+50

NORTH 77 MILE 159 0

SOUTH 77 MILE 159 0

℄ CONST. RAMP B1

℄ CONST. RAMP B2

16'

MATCH LINE - STA. 105+00, SEE SHEET P.983

MATCH LINE - STA. 107+00, SEE SHEET P.983

MATCH LINE - STA. 201+00, SEE SHEET P.983

Ex LA-R/W

Ex LA

| | | | |
|---|---|---|---|
| DESIGNER | JAR | DESIGN AGENCY | Lanham ENGINEERING LLC |
| REVIEWER | DKA 10-31-25 | | |
| PROJECT ID | 105107 | | |
| SUBSET | 16 | TOTAL | 28 |
| SHEET | P.982 | TOTAL | 1135 |

# TRAFFIC SIGNING PLAN - IR-77
## IR-77 STA. 94+00 TO STA. 107+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 11:23:35 AM RETTIG, JACOB
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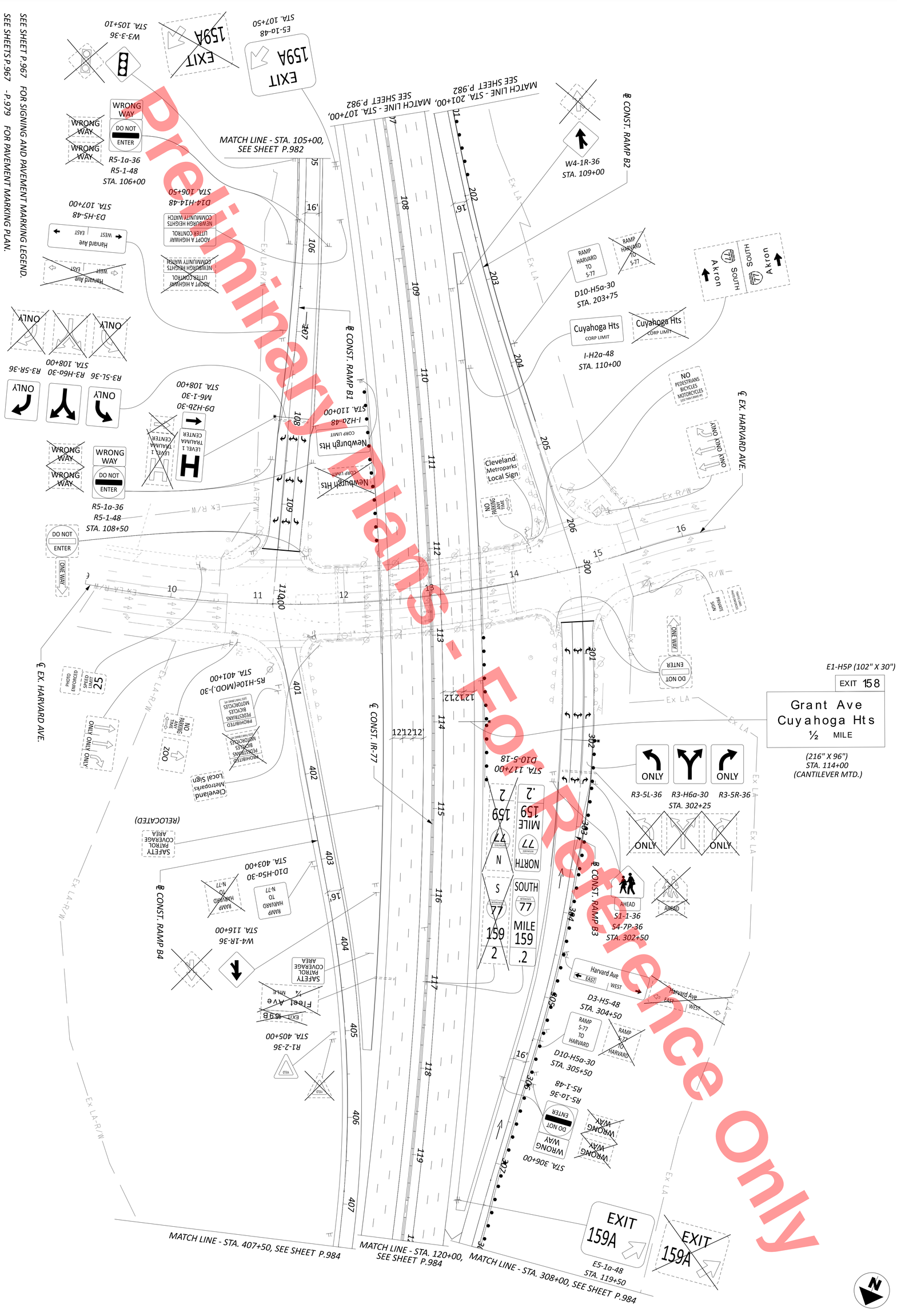
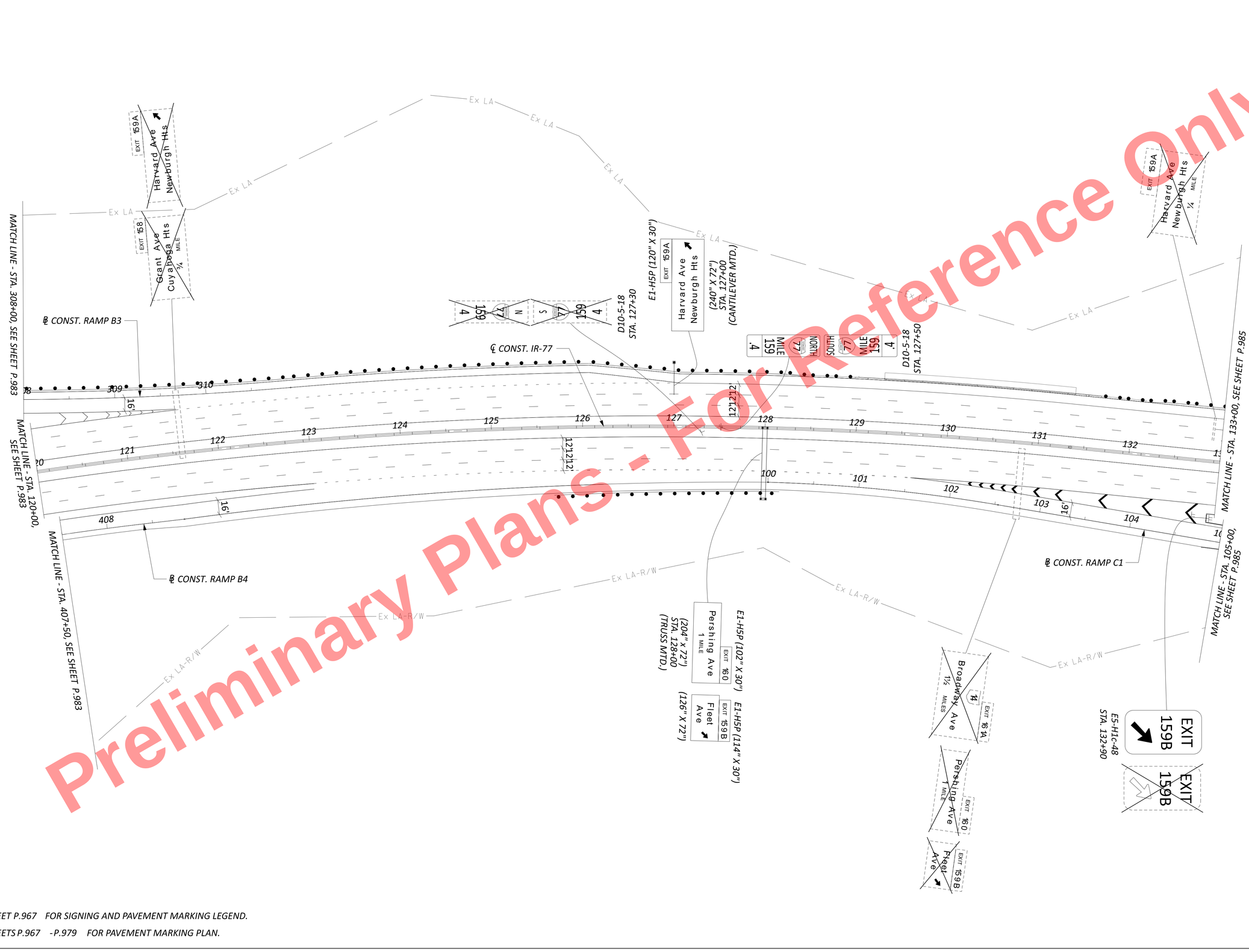
Preliminary Plans - For Reference Only




| | | | | | | |
|---|---|---|---|---|---|---|
| SHEET P.983 | SUBSET 17 | PROJECT ID 105107 | REVIEWER DKA 10-31-25 | DESIGNER JAR | DESIGN AGENCY Lanham ENGINEERING LLC | TRAFFIC SIGNING PLAN - IR-77<br>IR-77 STA. 107+00 TO STA. 120+00 |
| TOTAL 1135 | TOTAL 28 | | | | | HORIZONTAL SCALE IN FEET 0 50 25 100 |




Preliminary Plans - For Reference Only

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 120+00 TO STA. 133+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 18 |
| TOTAL | 28 |
| SHEET | P.984 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

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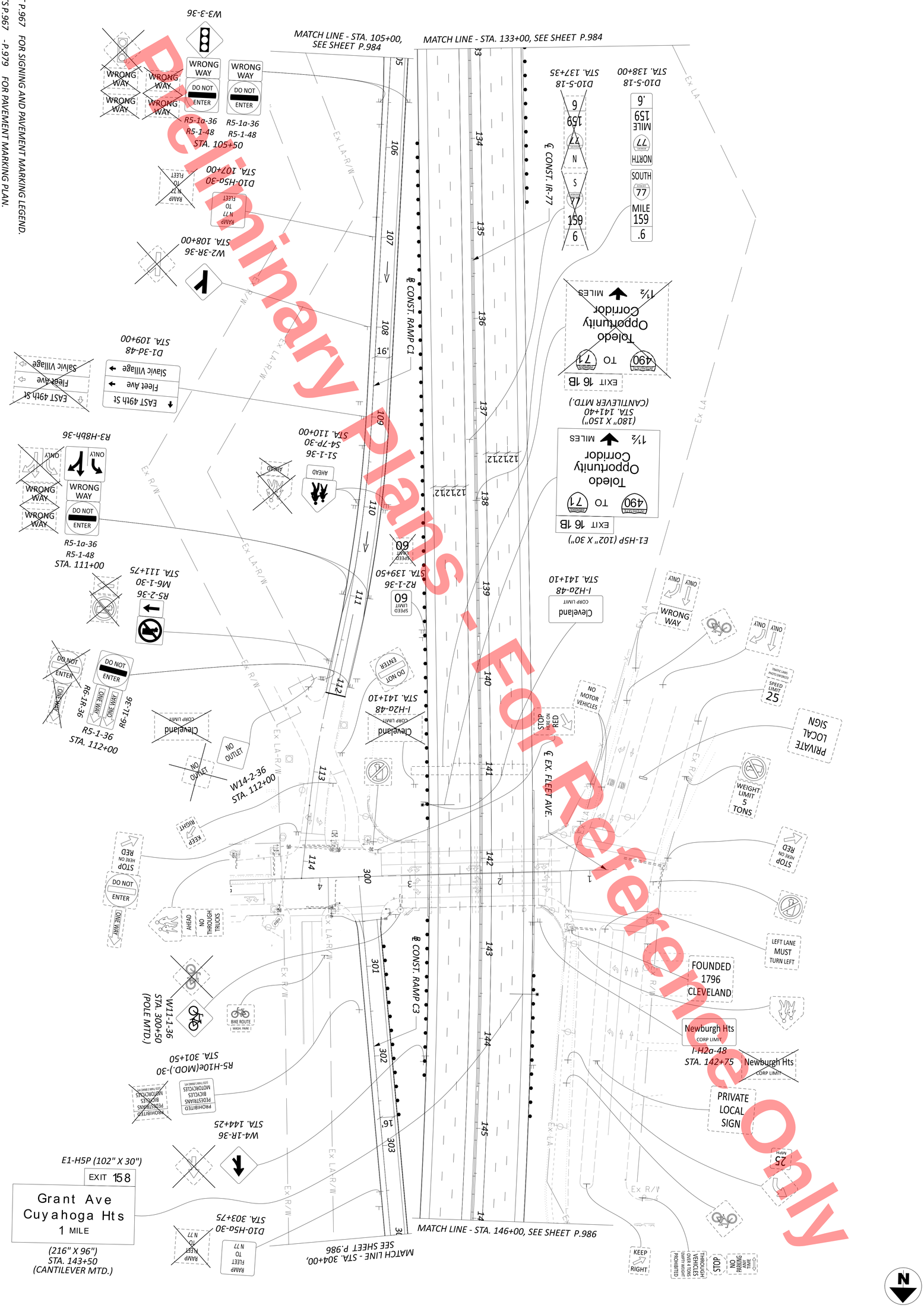
SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.

Preliminary Plans - For Reference Only




| DESIGNER | DESIGN AGENCY | | |
|---|---|---|---|
| JAR | Lanham ENGINEERING LLC | TRAFFIC SIGNING PLAN - IR-77<br>IR-77 STA. 133+00 TO STA. 146+00 | HORIZONTAL SCALE IN FEET<br>0 50<br>25 100 |
| REVIEWER | | | |
| DKA 10-31-25 | | | |
| PROJECT ID | | | |
| 105107 | | | |
| SUBSET | | | |
| 19 TOTAL 28 | | | |
| SHEET | | | |
| P.985 TOTAL 1135 | | | |

Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
## IR-77 STA. 146+00 TO STA. 159+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 20 |
| TOTAL | 28 |
| SHEET | P.986 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

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CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 11:49:21 AM RETTIG, JACOB
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Preliminary Plans - Not For Reference Only




*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.967 -P.979 FOR PAVEMENT MARKING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
## IR-77 STA. 159+00 TO STA. 172+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 21 |
| TOTAL | 28 |
| SHEET | P.987 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 12:03:21 PM RETTIG, JACOB
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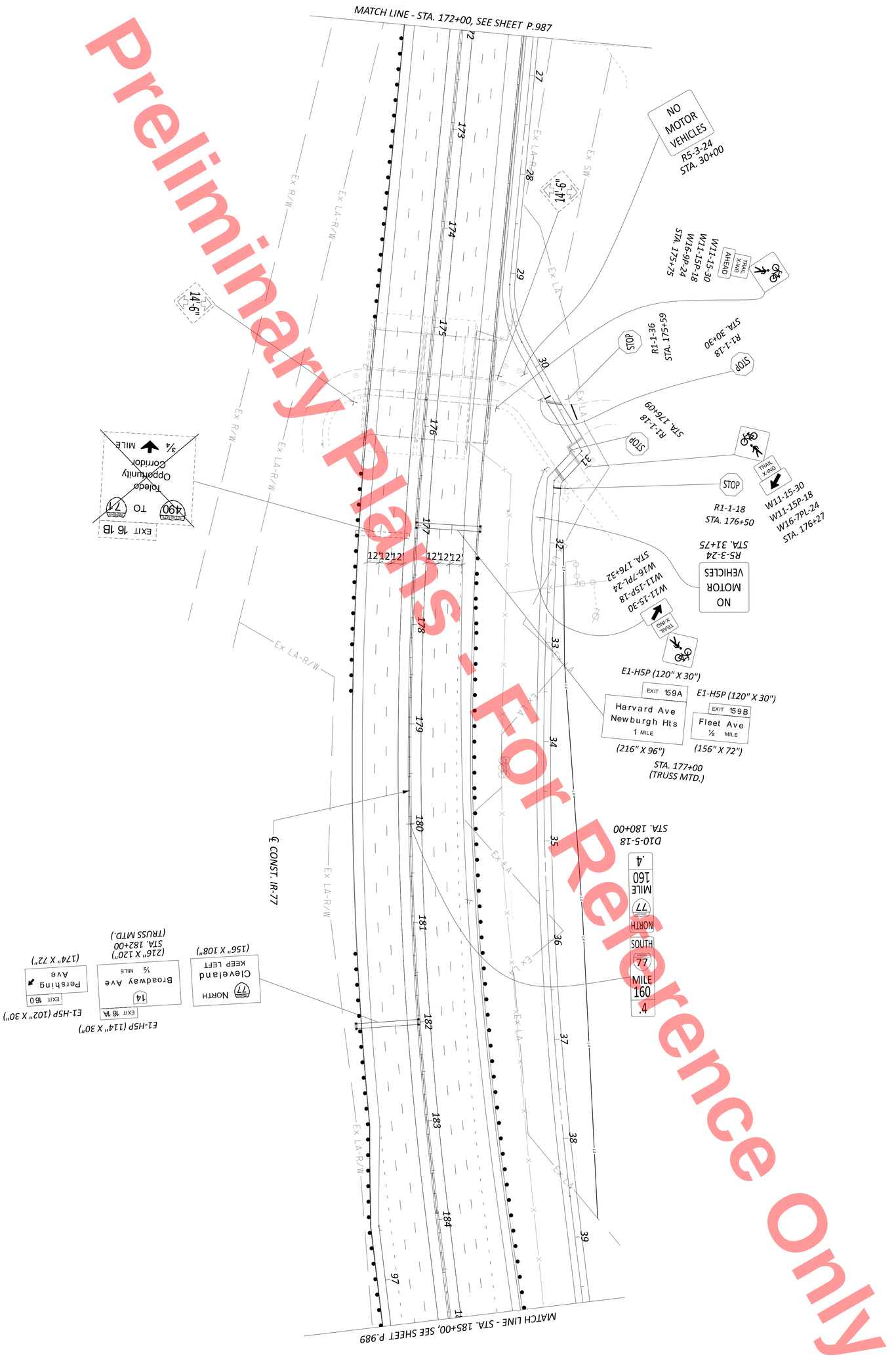
SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.




Preliminary Plans - For Reference Only

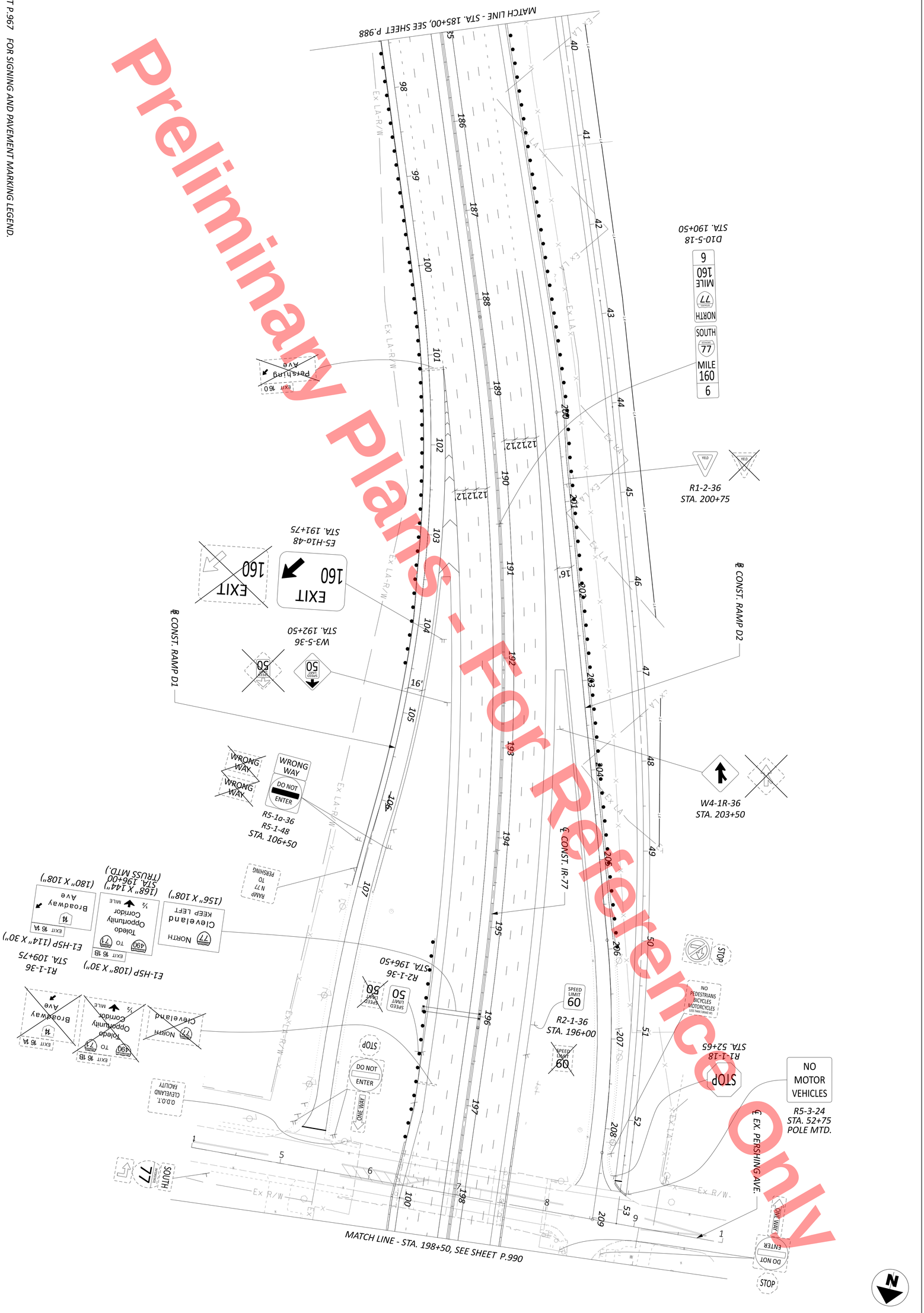
| | | | |
|---|---|---|---|
| DESIGN AGENCY | Lanham ENGINEERING LLC | DESIGNER JAR | REVIEWER DKA 10-31-25 |
| PROJECT ID 105107 | SUBSET 22 | TOTAL 28 | SHEET P.988 |
| TOTAL 1135 | | | |

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 172+00 TO STA. 185+00

HORIZONTAL SCALE IN FEET
0 25 50 100

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 12:09:09 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TP210.dgn

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.




Preliminary Plans - For Reference Only

| | | | |
|---|---|---|---|
| DESIGNER JAR | REVIEWER DKA 10-31-25 | PROJECT ID 105107 | SUBSET 23 TOTAL 28 |
| SHEET P.989 | TOTAL 1135 | | |

DESIGN AGENCY: Lanham ENGINEERING LLC

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 185+00 TO STA. 198+50

HORIZONTAL SCALE IN FEET
0 25 50 100

Preliminary Plans - For Reference Only

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 198+50 TO STA. 211+00

HORIZONTAL SCALE IN FEET
0 25 50 100

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 12:14:24 PM RETTIG, JACOB
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*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.967 -P.979 FOR PAVEMENT MARKING PLAN.*

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 24 |
| TOTAL | 28 |
| SHEET | P.990 |
| TOTAL | 1135 |

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 211+00 TO STA. 224+50

HORIZONTAL SCALE IN FEET
0 25 50 100

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 12:19:04 PM USER: RETTIG, JACOB
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Preliminary Plans - For Reference Only

MATCH LINE - STA. 211+00, SEE SHEET P.990

MATCH LINE - STA. 223+50, SEE SHEET P.992

MATCH LINE - STA. 224+50, SEE SHEET P.992

MATCH LINE - STA. 115+50, SEE SHEET P.992

END PROJECT CONSTRUCTION STA. 220+82

℄ CONST. RAMP J5

℄ CONST. IR-77

℄ CONST. RAMP J1

℄ EX. BROADWAY AVE.

Vietnam Veterans Memorial Highway

NO MOTOR VEHICLES

STOP

D10-5-18 STA. 211+50

D10-5-18 STA. 211+20

SOUTH 77 161 .0

NORTH 77 161 .0

SOUTH 77 Akron

SOUTH 77 Akron

E5-H1C-48 STA. 219+20

EXIT 161B

EXIT 161B

D10-5-18 STA. 221+60

SOUTH 77 161 .2

NORTH 77 161 .2

D10-5-18 STA. 220+00

RAMP N 77 TO 490

WEST 490 TO 71 Toledo

10 EAST Opportunity Corridor

FirstEnergy Stadium Convention Center JACK Casino

EXIT 163 AMTRAK

E11-1 (180" X 36") (180" X 142")

490 TO 71 Toledo Opportunity Corridor

EXIT ONLY

EXIT 161B

77 NORTH Cleveland

E1-H5P (114" X 30")

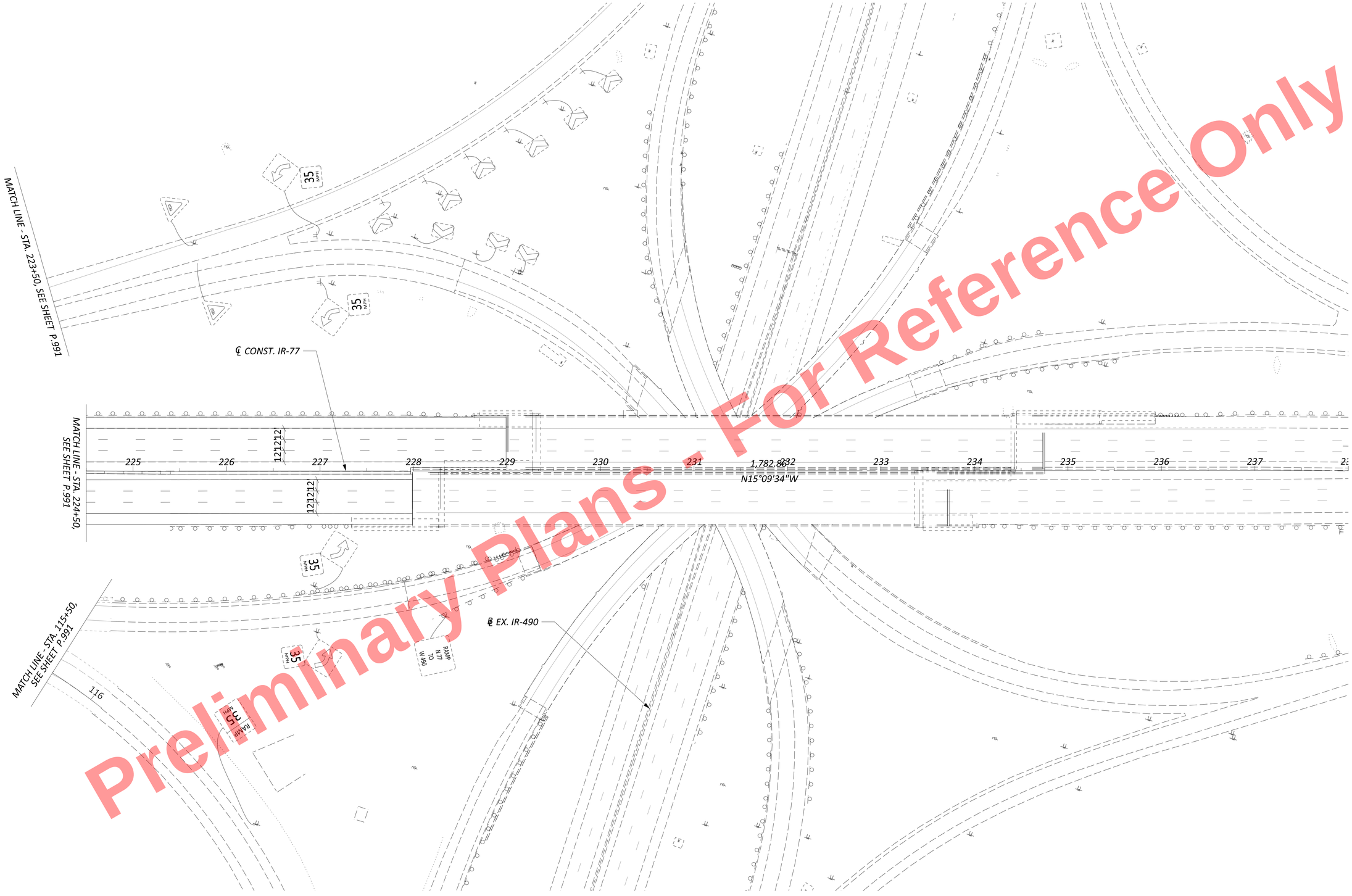
(384" X 114") STA. 213+00 (TRUSS MTD.)

SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.967 -P.979 FOR PAVEMENT MARKING PLAN.

DESIGN AGENCY
Lanham ENGINEERING LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 25 |
| TOTAL | 28 |
| SHEET | P.991 |
| TOTAL | 1135 |




Preliminary Plans - For Reference Only

*SEE SHEET P.967 FOR SIGNING AND PAVEMENT MARKING LEGEND.*

*SEE SHEETS P.967 - P.979 FOR PAVEMENT MARKING PLAN.*

HORIZONTAL SCALE IN FEET
0 25 50 100

# TRAFFIC SIGNING PLAN - IR-77
# IR-77 STA. 224+50 TO STA. 238+00

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET / TOTAL | 26 / 28 |
| SHEET / TOTAL | P.992 / 1135 |

CUY-77-11.41 - PART 1

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PEDESTRIAN SIGNS




R9-3-18 R9-3bPL-18 (1)

R9-3-18 R9-3bPR-18 (2)

PEDESTRIAN SIGNAL HEAD




A A EAST/WEST

B NORTH/SOUTH

EX. PULL BOX
STA. 3+79, 31' RT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 7'

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 17'

EX. GROUND MOUNTED CONTROLLER
STA. 3+82, 48' RT.

FLEET AVE.

PS-1 - PEDESTAL SUPPORT (SEE NOTE 2)
W/(1)-PEDESTRIAN SIGNAL HEAD
STA. 3+23, 42' LT.

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 7'

PULL BOX, 24"
STA. 3+28, 47' LT.

I-77 NB ON-RAMP

300

301

INDEPENDENCE RD.

E. 49TH ST.

113

114

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 61'

EX. SIGNAL SUPPORT (SEE NOTES 1 & 2)
W/(1)-PEDESTRIAN SIGNAL HEAD
STA. 3+84, 34' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(1)-5/C
DISTANCE = 58'

Ex LA-R/W

PULL BOX, 24"
STA. 3+88, 43' LT.

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 10'

EX. PULL BOX
STA. 3+88, 33' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 58'

EX. PULL BOX
STA. 4+46, 35' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 71'

EX. PULL BOX
STA. 3+86, 31' RT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 48'

EX. PULL BOX
STA. 4+34, 36' RT.

FLEET AVE.

LEGEND

| | EXISTING | PROPOSED |
|---|---|---|
| SIGNAL SUPPORT POLE | | |
| PEDESTRIAN SIGNAL HEAD | | |
| PEDESTAL SUPPORT | | |
| CONTROLLER AND WORK PAD | | |
| TRAFFIC PULL BOX | TR | TR |

NOTES:

1. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR SHALL FIELD DRILL, ATTACH, AND WIRE THE PEDESTRAIN SIGNAL HEAD TO THE EXISTING SIGNAL SUPPORT AS INDICATED ON THIS SHEET.

2. ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH THE EXISTING ATTACHMENTS ALREADY AT THIS INTERSECTION. THE CONTRACTOR SHALL SUBMIT A PAINT SAMPLE TO THE ENGINEER FOR APPROVAL PRIOR TO PAINTING AND INSTALLING THE PEDESTRIAN SIGNAL HEADS AND ATTACHMENT ASSEMBLIES.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 5 10 20

# TRAFFIC SIGNAL MODIFICATIONS
# FLEET AVE. AT IR-77 NORTHBOUND RAMPS

DESIGN AGENCY
Lanham Engineering LLC

| | |
|---|---|
| DESIGNER | JAR |
| REVIEWER | DKA 10-31-25 |
| PROJECT ID | 105107 |
| SUBSET | 27 |
| TOTAL | 28 |
| SHEET | P.993 |
| TOTAL | 1135 |

CUY-77-11.41

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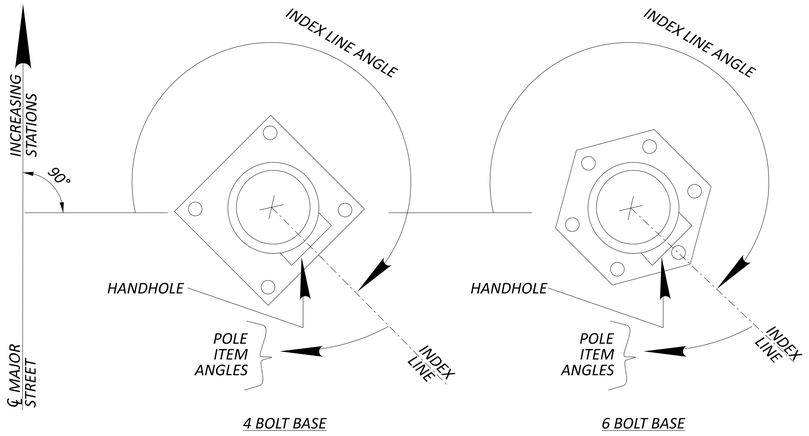
## POLE ORIENTATION




## POLE ORIENTATION DATA

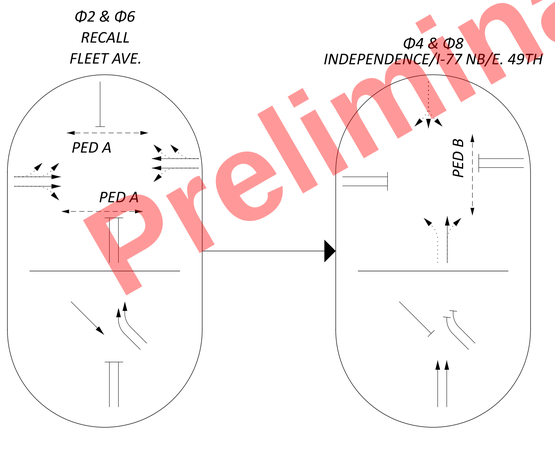
| REFERENCE SHEET NO.* | STATION & OFFSET* | POLE NO. | DESIGN NO. | POLE HEIGHT (FT.) | FOUNDATION ELEV.* | INDEX LINE ANGLE / MAST ARM 'A' ANGLE (DEG.) | ANGLES (DEG.) FROM INDEX LINE | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PROPOSED PEDESTRIAN SIGNAL HEAD | | | |
| | 3+84, 34' LT | EX-SP | EX. | | | 270 | 92 | - | - | - |
| P.993 | | | | | | | | | | |
| | 3+23, 42' LT | PS-1 | - | 8 | * | 176 | 183 | - | - | - |
| | | | | | | | | | | |

* PEDESTAL FOUNDATION TO BE FLUSH WITH BACK OF WALK

## FIELD WIRING HOOK-UP CHART

| PEDESTRIAN MOVEMENTS | | | |
|---|---|---|---|
| A - A (W-E) | DW | OLB R ( 2 + 6) | OUT |
| | FDW | OLB Y ( 2 + 6) | |
| | W | OLB G ( 2 + 6) | |

## PHASING DIAGRAM

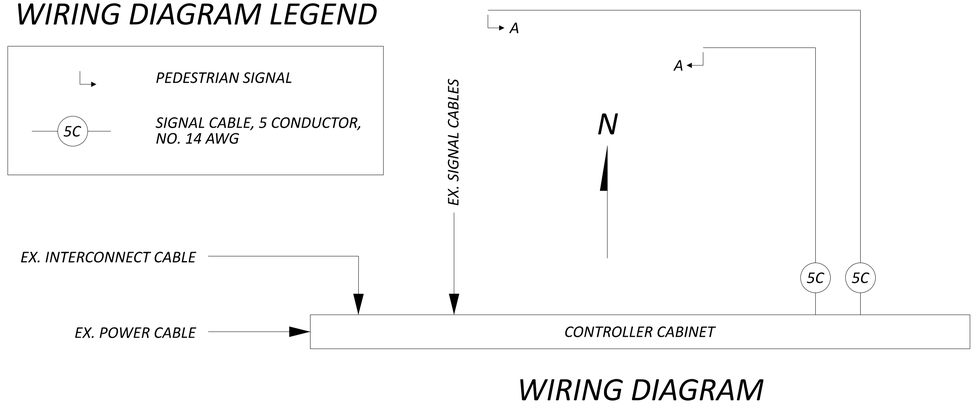



| PHASING DIAGRAM LEGEND | |
|---|---|
| VEHICLE Φ | |
| PERMITTED Φ | |
| PEDESTRIAN Φ | |

N

## WIRING DIAGRAM LEGEND

| | |
|---|---|
| | PEDESTRIAN SIGNAL |
| 5C | SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG |




## WIRING DIAGRAM

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 .25 .5 1

# TRAFFIC SIGNAL DETAILS
# FLEET AVE. AT IR-77 NORTHBOUND RAMPS

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER JAR
REVIEWER DKA 10-31-25
PROJECT ID 105107
SUBSET 28 TOTAL 28
SHEET P.994 TOTAL 1135

CUY-77-11.41

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**DMS SUPPORT STRUCTURES**

*THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.*

*THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE PROJECT ENGINEER FOR ACCEPTANCE. THE DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER FROM THE MANUFACTURER. THE ITEM SHALL NOT BE RELEASED FOR CONSTRUCTION UNTIL ACCEPTED BY THE OFFICE OF TRAFFIC OPERATIONS.*

**MAINTAINING ITS DURING CONSTRUCTION**

*THE CONTRACTOR SHALL MAINTAIN ALL PREEXISTING OR NEWLY INSTALLED PERMANENT ITS/TRAFFIC DEVICES AND INFRASTRUCTURE DURING CONSTRUCTION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.*

*THE NEW NORTHBOUND DMS INSTALLATION SHALL BE MADE ACTIVE BEFORE THE EXISTING SITE IS REMOVED.*

*DOWNTIME OF CCTV SITES SHALL BE PER SUPPLEMENTAL SPECIFICATION 809.*

*COORDINATE WITH ODOT ITS TO ESTABLISH COMMUNICATIONS LINKS TO NEW ITS DEVICES PRIOR TO DISRUPTING EXISTING SERVICES.*

**ITEM 633, CONTROLLER WORK PAD, AS PER PLAN**

*INSTALL AN ITS WORKPAD MEETING THE REQUIREMENTS OF SCD ITS-10.11 AND ITS-50.12. THE WORK PAD SHALL ENCOMPASS ALL EXISITNG AND PROPOSED SUPPORT STRUCTURES, CABINETS, AND PULL BOXES AS SHOWN IN THE PLANS.*

*THE WORK AS DESCRIBED SHALL BE MEASURED PER EACH WORK PAD INSTALLED AROUND EXISTING ITS EQUIPMENT.*

*ITS WORKPADS AROUND PROPOSED EQUIPMENT SHALL BE INCIDENTAL TO THE DEVICE SUPPORT STRUCTURES AS NOTED IN SUPPLEMENTAL SPECIFICATION 809, AND NO ADDITIONAL PAYMENT SHALL BE MADE.*

**ITEM 809, CCTV POLE, 70 FEET TALL**

*THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS. THE CONTRACTOR SHALL DETERMINE WHICH TYPE OF POLE TO FURNISH AND INSTALL (CONCRETE OR STEEL) WHEN BIDDING ON THIS ITEM. THE POLE AND FOUNDATION/EMBEDMENT ARE INCIDENTAL TO THIS ITEM REGARDLESS OF MATERIAL TYPE. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL ONE COMPLETE LOWERING UNIT TOOL ASSEMBLY PER CAMERA FOR LOWERING CAMERAS PER SUPPLEMENTAL SPECIFICATION 809 (PAID SEPARATELY).*

*THE CONTRACTOR SHALL FURNISH/INSTALL POLES WITH THE CORRECT LENGTH/EMBEDMENT AND ALL COUPLINGS, HANDHOLES, ETC., IN THE APPROPRIATE LOCATION ABOVE GROUND ACCORDING TO SCD ITS-12.10 OR ITS-12.11.*

*FOR THIS SITE, LOCATED AT PERSHING AVENUE, THE POLE HEIGHT SHALL BE 70 FT ABOVE GROUND. THE EMBEDMENT DEPTH FOR A CONCRETE POLE SHALL BE 25 FT. A SPECIAL FOUNDATION DESIGN IS NOT REQUIRED FOR A STEEL POLE.*

*THE CONTRACTOR MAY FURNISH/INSTALL LONGER OVERALL LENGTH CONCRETE POLES AT A DEEPER EMBEDMENT DEPTH IF IT IS MORE BENEFICIAL FOR MANUFACTURING, SHIPPING, ETC., AS LONG AS ALL ABOVE GROUND COMPONENTS MAINTAIN APPROPRIATE HEIGHT LEVEL.*

*THE CONTRACTOR SHALL SUBMIT ALL POLE MANUFACTURER FABRICATION DRAWING SUBMITTALS, AS WELL AS INSTALLATION PROCEDURES AND BACKFILL MATERIAL, TO THE ENGINEER FOR ACCEPTANCE BEFORE ORDERING.*

*PAYMENT FOR EACH POLE COMPLETE, INSTALLED, AND ACCEPTED SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 809, CCTV POLE, 70' TALL.*

**ITEM 809, CONDUIT, 4", MULTICELL, HDPE WITH 4 1"INNERDUCTS**

**ITEM 809, CONDUIT, 4", MULTICELL, HDPE, JACKED OR DRILLED**

**ITEM 809, ITS JUNCTION BOX**

*THE CONTRACTOR SHALL FURNISH AND INSTALL THESE ITEMS ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.*

**ITEM 809, ITS DEVICE, MISC.: CDMA MODEM, FURNISH ONLY**

*FURNISH A CDMA MODEM, TWO ANTENNAS WITH A 10-FOOT CABLE, AND A 10' ETHERNET CABLE FOR REMOTE WIRELESS CELLULAR COMMUNICATION. FOR NETWORK CONSISTENCY CDMA MODEMS SHALL BE THE SIERRA WIRELESS AIRLINK GX450 ETHERNET MODEL.*

*THIS ITEM SHALL INCLUDE THE FURNISHING OF A COMTROL ROCKETLINX ES8105 ETHERNET SWITCH OR APPROVED EQUAL WITH ALL AC POWER SUPPLIES NECESSARY TO FUNCTION.*

*THIS ITEM SHALL INCLUDE FURNISHING OF A MOUNTING BRACKET FOR THE ANTENNA WITH ALL NECESSARY HARDWARE INCLUDING BUT NOT LIMITED TO THE SPRING NUTS, WASHERS, AND BOLTS THAT INSTALLS TO THE MOUNTING CHANNEL ON THE SIDE OF THE ITS CABINET.*

*THE CELLULAR MODEM EQUIPMENT AND ETHERNET SWITCH SHALL BE SHIPPED OR DELIVERED TO ODOT CENTRAL OFFICE ITS FOR PROGRAMMING AND INSTALLATION.*

*ODOT ITS*
*ATTN: PAUL LUNDSTROM*
*1606 WEST BROAD ST.*
*COLUMBUS, OH 43223*

*THE CONTRACTOR SHALL PROVIDE THE MODEM SERIAL NUMBERS AND NECESSARY ESN NUMBERS FOR ODOT TO ESTABLISH WIRELESS SERVICE.*

*THE DEPARTMENT WILL MEASURE THIS ITEM BY THE NUMBER OF COMPLETE UNITS FURNISHED, RECEIVED, AND ACCEPTED BY ODOT CENTRAL OFFICE ITS.*

**ITEM 809, ITS DEVICE, MISC.: REMOVAL OF CCTV POLE**

**ITEM 809, ITS DEVICE, MISC.: REMOVAL OF CCTV POLE, CAMERA, FOUNDATION, AND CABINET ASSEMBLY**

**ITEM 809, ITS DEVICE, MISC.: REMOVAL OF DMS SUPPORT STRUCTURE, FOUNDATIONS, AND CABINET ASSEMBLY**

*REMOVE AND DISPOSE OF EXISTING ITS DEVICE SUPPORT STRUCTURES AS IDENTIFIED IN THE PLANS, INCLUDING BUT NOT LIMITED TO POLES, TRUSSES, CATWALKS, LADDERS, CONDUITS, CABLES, AND OTHER MISCELLANEOUS ATTACHMENTS.*

*SALVAGE AND DELIVER ITS DEVICES WHERE NOTED IN THE PLANS.*

*REMOVE FOUNDATIONS IN UNPAVED AREAS TO A MINIMUM OF 24" BELOW FINISHED GRADE.*

*THE WORK DESCRIBED SHALL BE MEASURED PER EACH INSTALLATION REMOVED.*

**ITEM 809, ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF CCTV AND LOWERING UNIT**

**ITEM 809, ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF DYNAMIC MESSAGE SIGN**

*REMOVE AND SALVAGE THESE DEVICES AND DELIVER TO ODOT IN GOOD WORKING ORDER. CONTACT ODOT ITS AT LEAST TEN BUSINESS DAYS IN ADVANCE TO SCHEDULE DELIVERY. DELIVER MATERIALS TO:*

*ODOT ITS*
*1606 WEST BROAD ST.*
*COLUMBUS, OH 43223*
*PH: (614) 387-4113*
*EMAIL: CEN.ITS.LAB@DOT.OHIO.GOV*

*MATERIAL THAT IS DAMAGED DURING REMOVAL OR TRANSPORT WILL NOT BE SUBJECT TO PAYMENT.*

*THE WORK AS DESCRIBED SHALL BE MEASURED PER EACH DEVICE REMOVED AND DELIVERED.*

Preliminary Plans - For Reference Only

ITS PLAN
GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.995 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - General Notes PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:35:54 PM USER: kperkins
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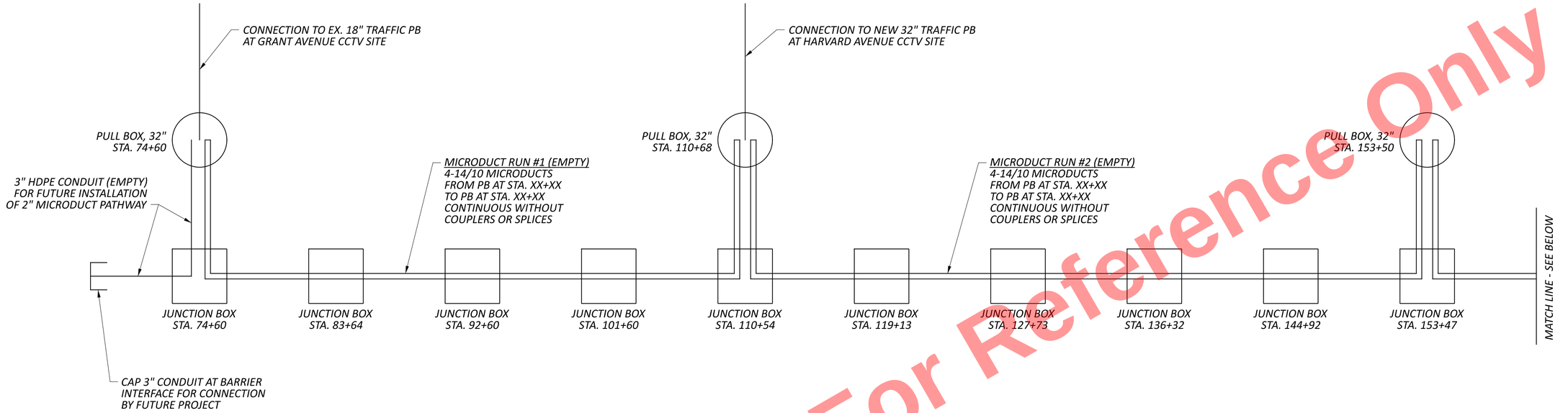


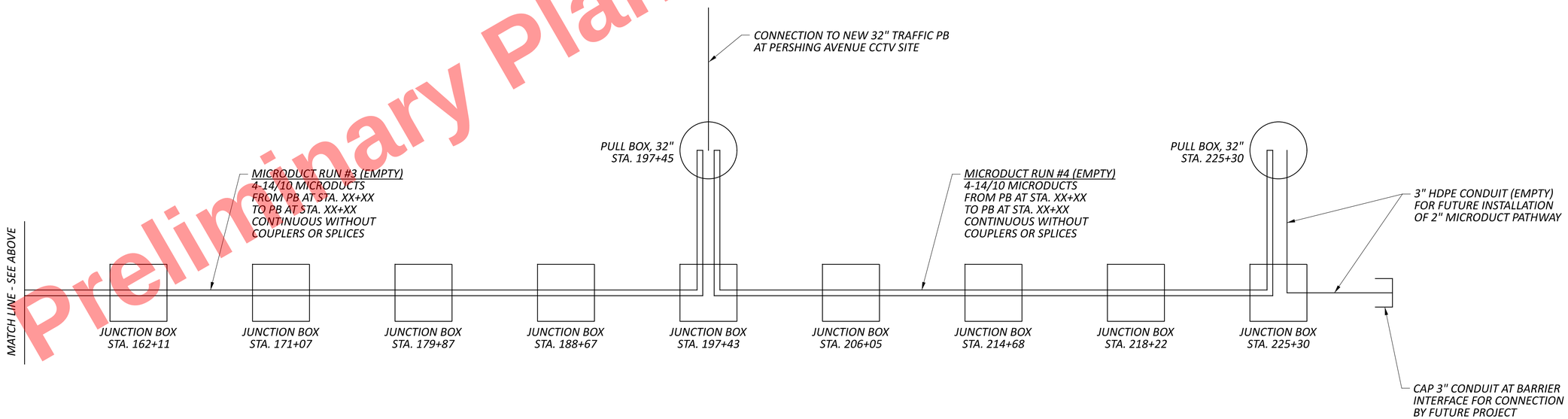


Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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ITS PLAN
MICRODUCT DETAILS

DESIGN AGENCY
HNTB

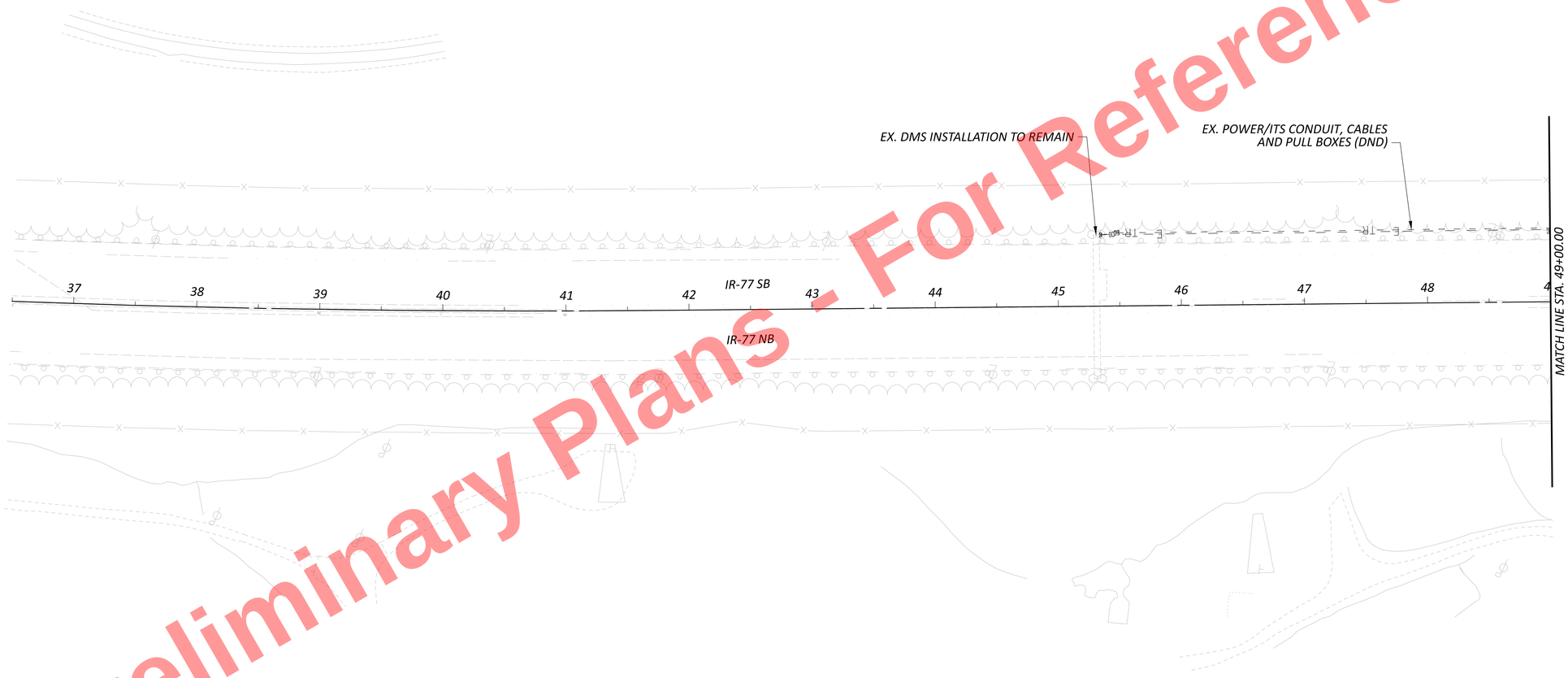
DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.996 | TOTAL P.1135

SHEET INCLUDED FOR REFERENCE ONLY.
NO PROPOSE WORK ON THIS SHEET.




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 36+50 TO STA. 49+00

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.997 TOTAL P.1135

CUY-77-11.41 - PART 1

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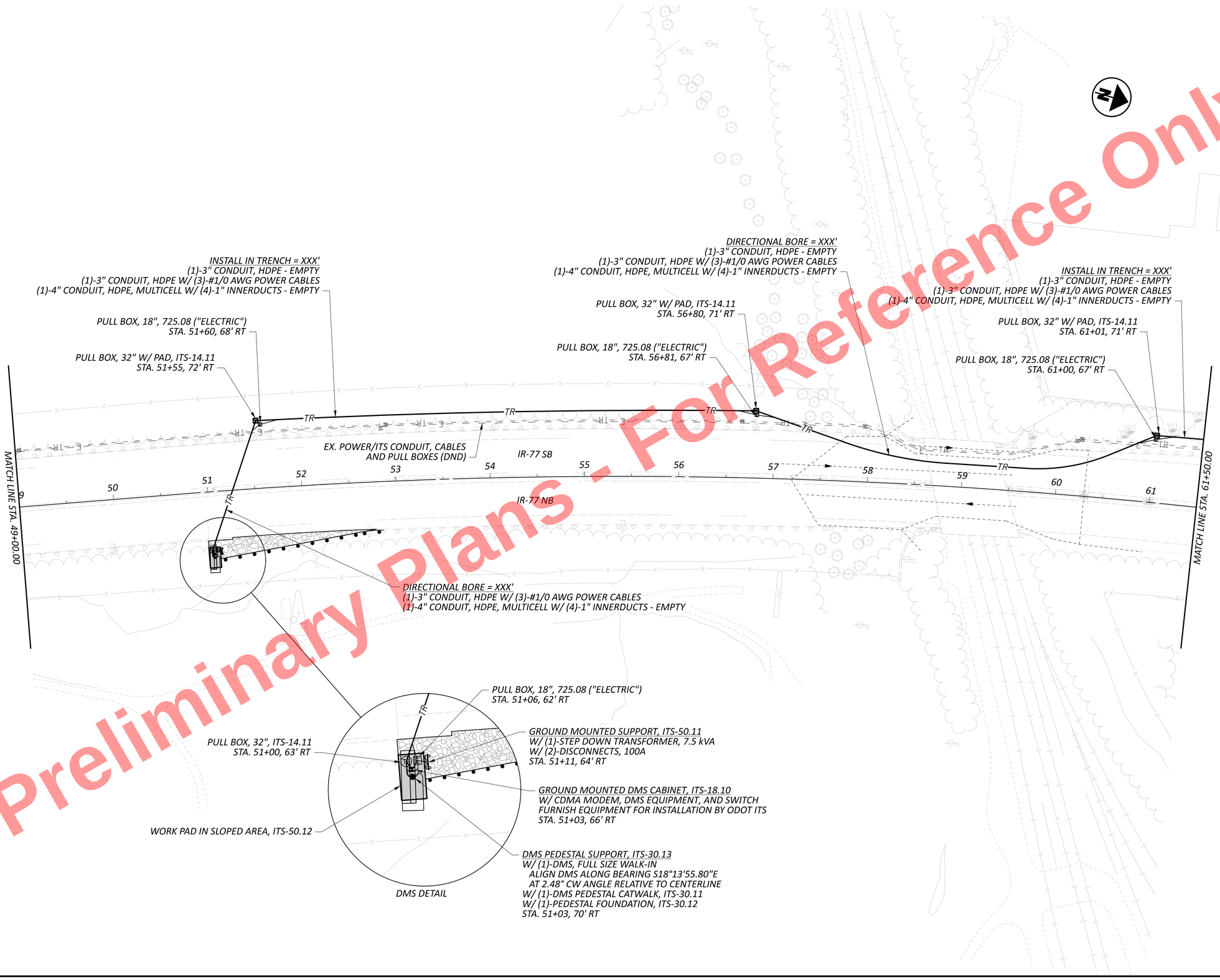
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 49+00 TO STA. 61+50

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.998 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:14 PM USER: kperkins
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POWER SERVICE, ITS-15.11
240/480V, 100A, 1PH, 3W
W/ 100A DISCONNECT
ORIENT METER WEST
TOWARDS WILLOW PKWY.
FUSE L1 AND L2 AT 20A
STA. 63+69, 88' LT

PULL BOX, 18", 725.08 ("ELECTRIC")
STA. 63+64, 79' LT

INSTALL IN TRENCH = XXX'
(1)-3" CONDUIT, HDPE - EMPTY
(1)-3" CONDUIT, HDPE W/ (3)-#1/0 AWG POWER CABLES
(1)-4" CONDUIT, HDPE, MULTICELL W/ (4)-1" INNERDUCTS - EMPTY

EX. POWER SERVICE FOR SB DMS (DND)

PULL BOX, 32" W/ PAD, ITS-14.11
STA. 63+69, 75' LT

POWER SERVICE DETAIL

PROPOSED POWER SOURCE
EX. TRANSFORMER ON EX. WOOD POLE
(THE ILLUMINATING COMPANY)

OH SERVICE CABLE (BY UTILITY)

EX. POWER/ITS CONDUIT, CABLES
AND PULL BOXES (DND)

IR-77 SB

IR-77 NB

62 63 64 65 66 67 68 69 70 71 72 73 74

MATCH LINE STA. 61+50.00

MATCH LINE STA. 74+00.00

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 61+50 TO STA. 74+00

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.999 TOTAL P.1135

CUY-77-11.41 - PART 1

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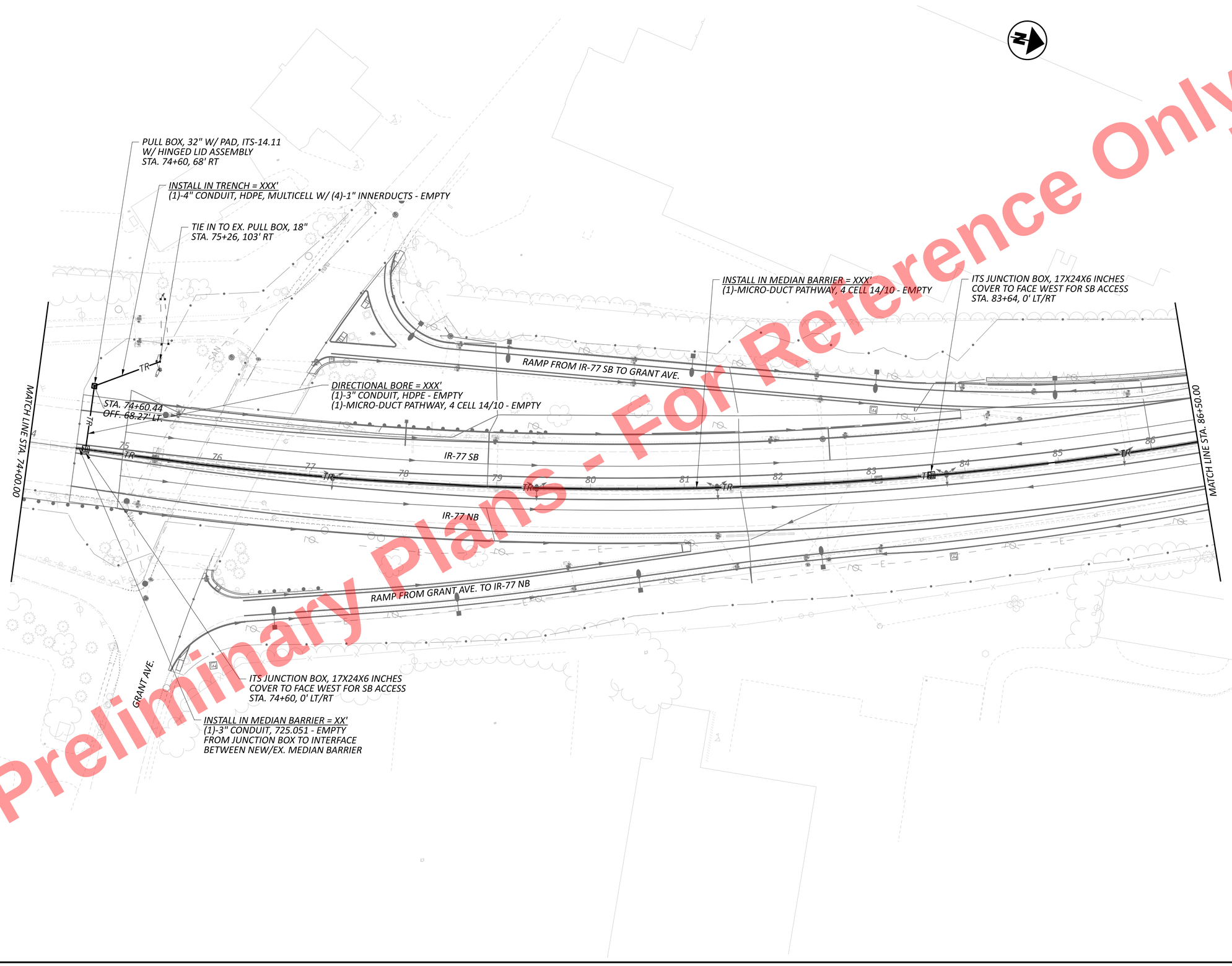


Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 74+00 TO STA. 86+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:18 PM USER: kperkins
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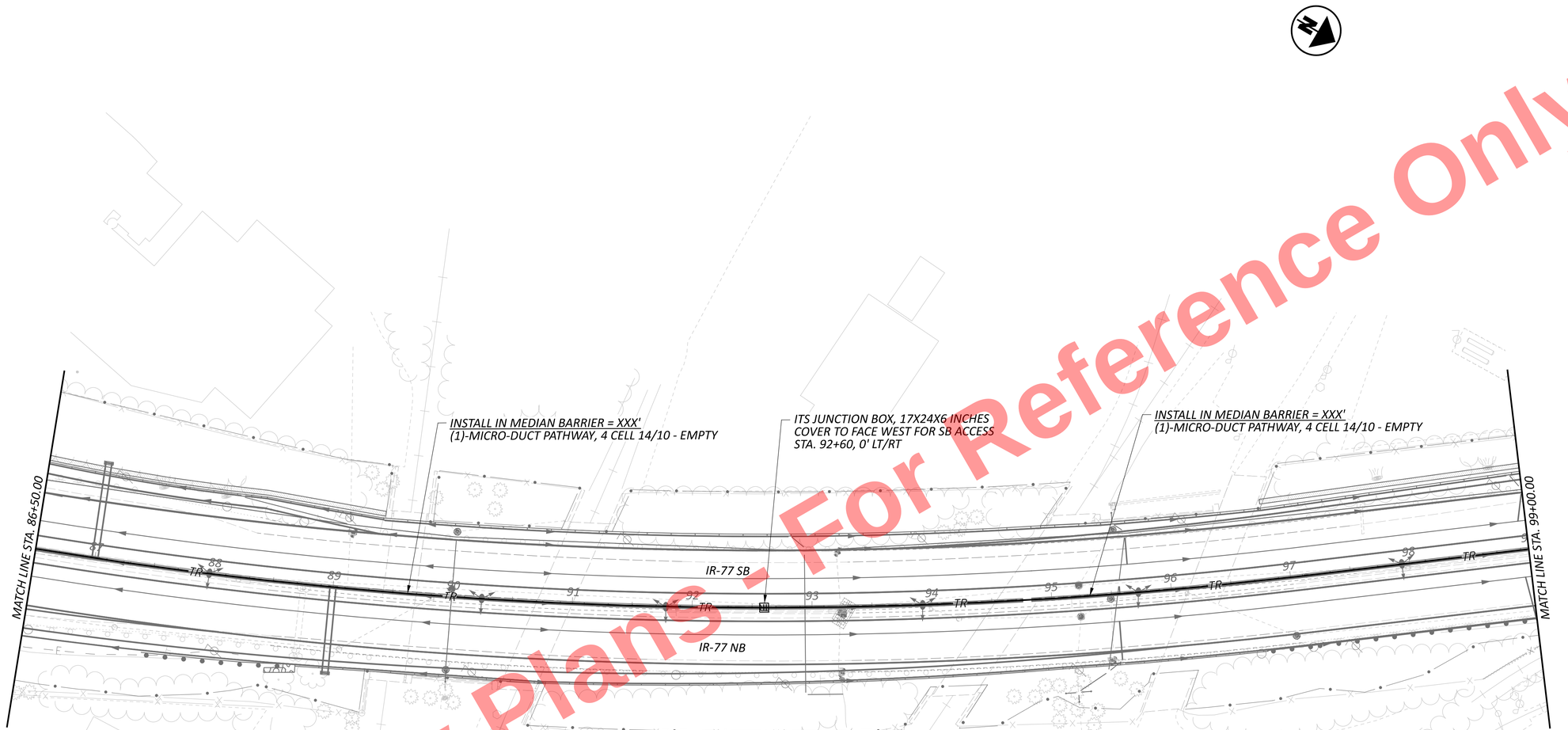
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | NSJ |
| REVIEWER | NRS 10/31/25 |
| PROJECT ID | 105743 |
| SHEET | P.1000 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 86+50 TO STA. 99+00

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1001 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:25 PM USER: kperkins
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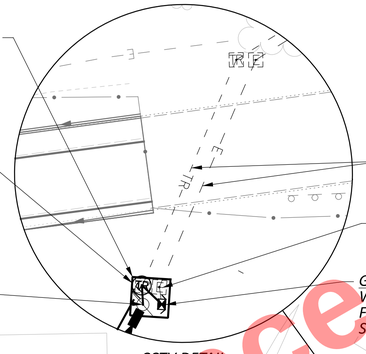
INSTALL WORK PAD IN SLOPED AREA PER ITS-50.12
ENCOMPASSING NEW AND EX. PULL BOXES,
EX. CCTV POLE, AND NEW ITS CABINET

PULL BOX, 32", ITS-14.11
REMOVE EX. PULL BOX, 18"
STA. 110+68, 88' LT

EX. CONCRETE CCTV POLE TO REMAIN
REMOVE EX. ITS CABINET AND DISPOSE
DELIVER EX. NETWORK EQUIPMENT TO ODOT
REMOVE EX. CCTV AND DELIVER TO ODOT
W/ (1)-NEW CCTV IP-CAMERA SYSTEM, PTZ
INSTALL NEW CCTV ON EX. LOWERING ARM
STA. 110+69, 83' LT



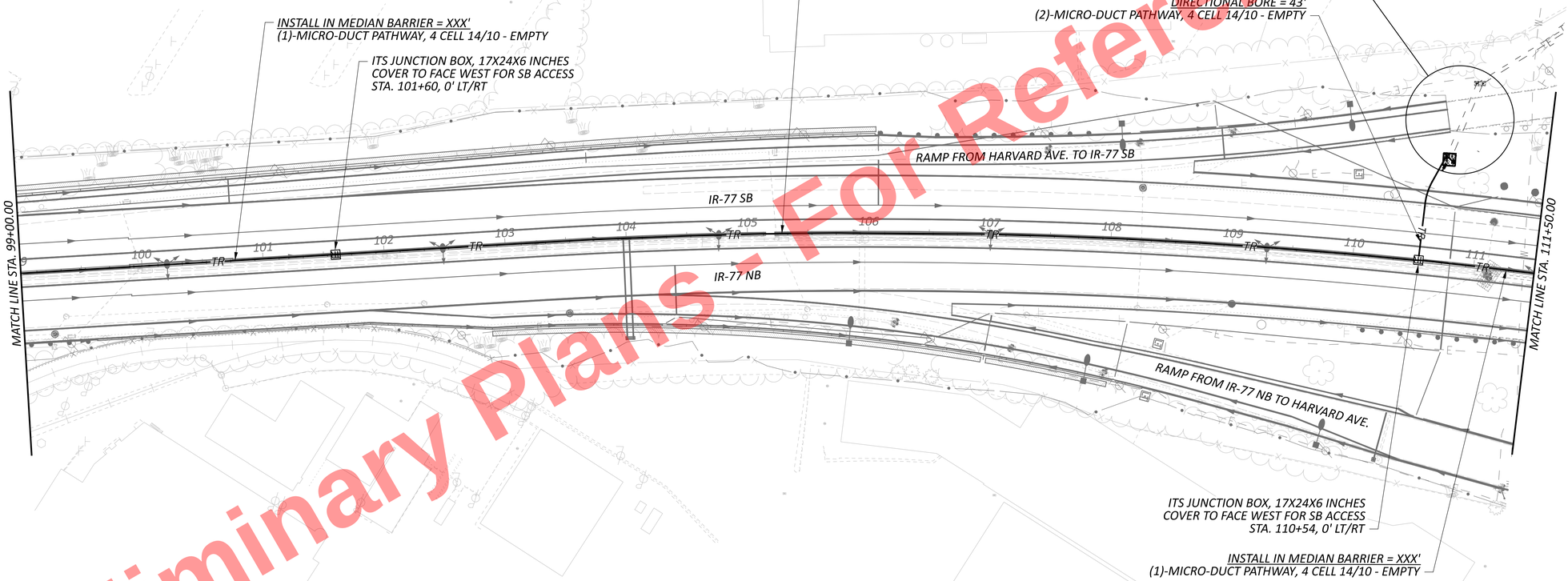

CCTV DETAIL

INSTALL IN MEDIAN BARRIER = XXX'
(1)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

DIRECTIONAL BORE = 43'
(2)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

INSTALL IN MEDIAN BARRIER = XXX'
(1)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 101+60, 0' LT/RT




ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 110+54, 0' LT/RT

INSTALL IN MEDIAN BARRIER = XXX'
(1)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 25 50 100

# ITS PLAN
# STA. 99+00 TO STA. 111+50

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1002 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:27 PM USER: kperkins
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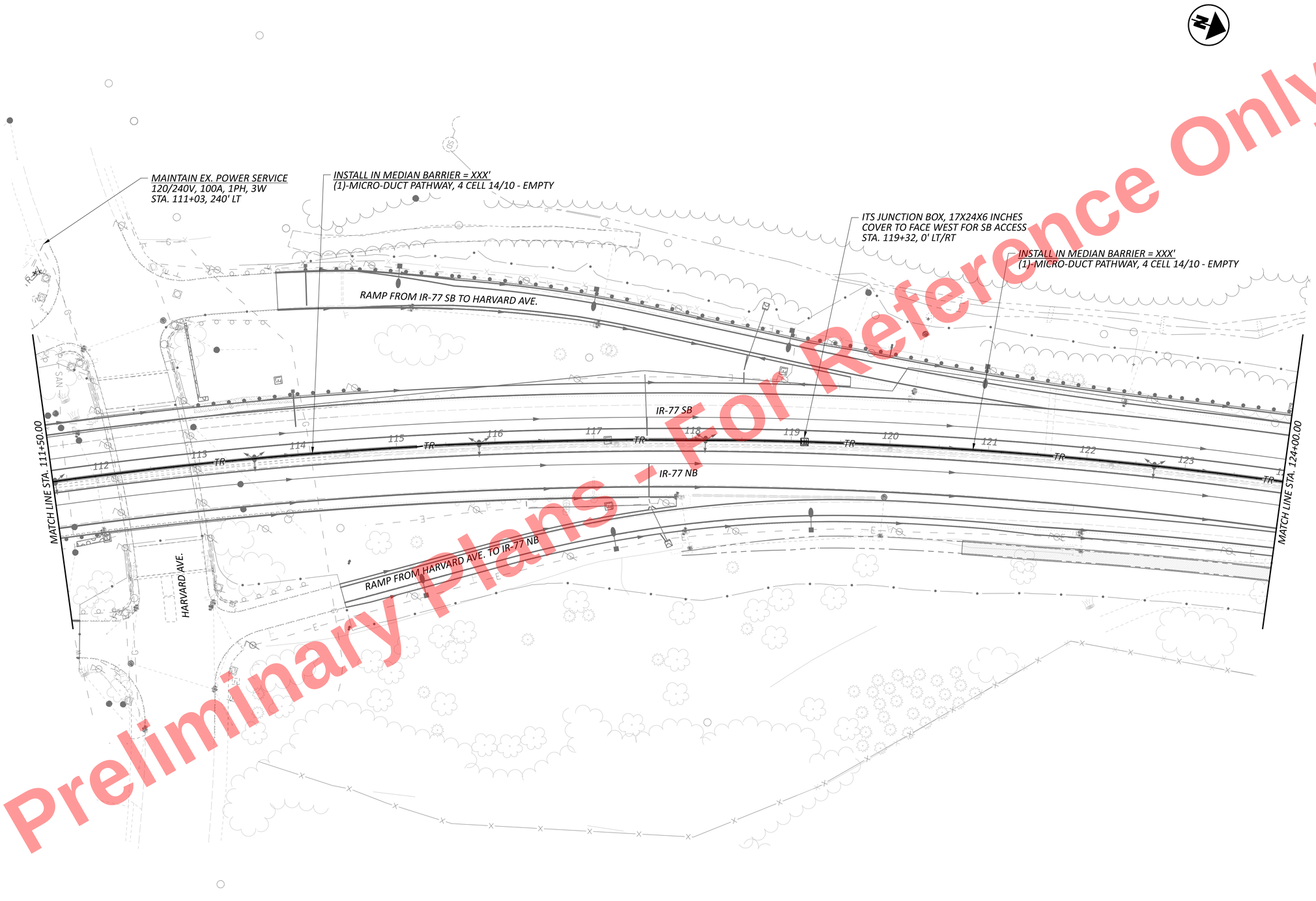


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 111+50 TO STA. 124+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:31 PM USER: kperkins
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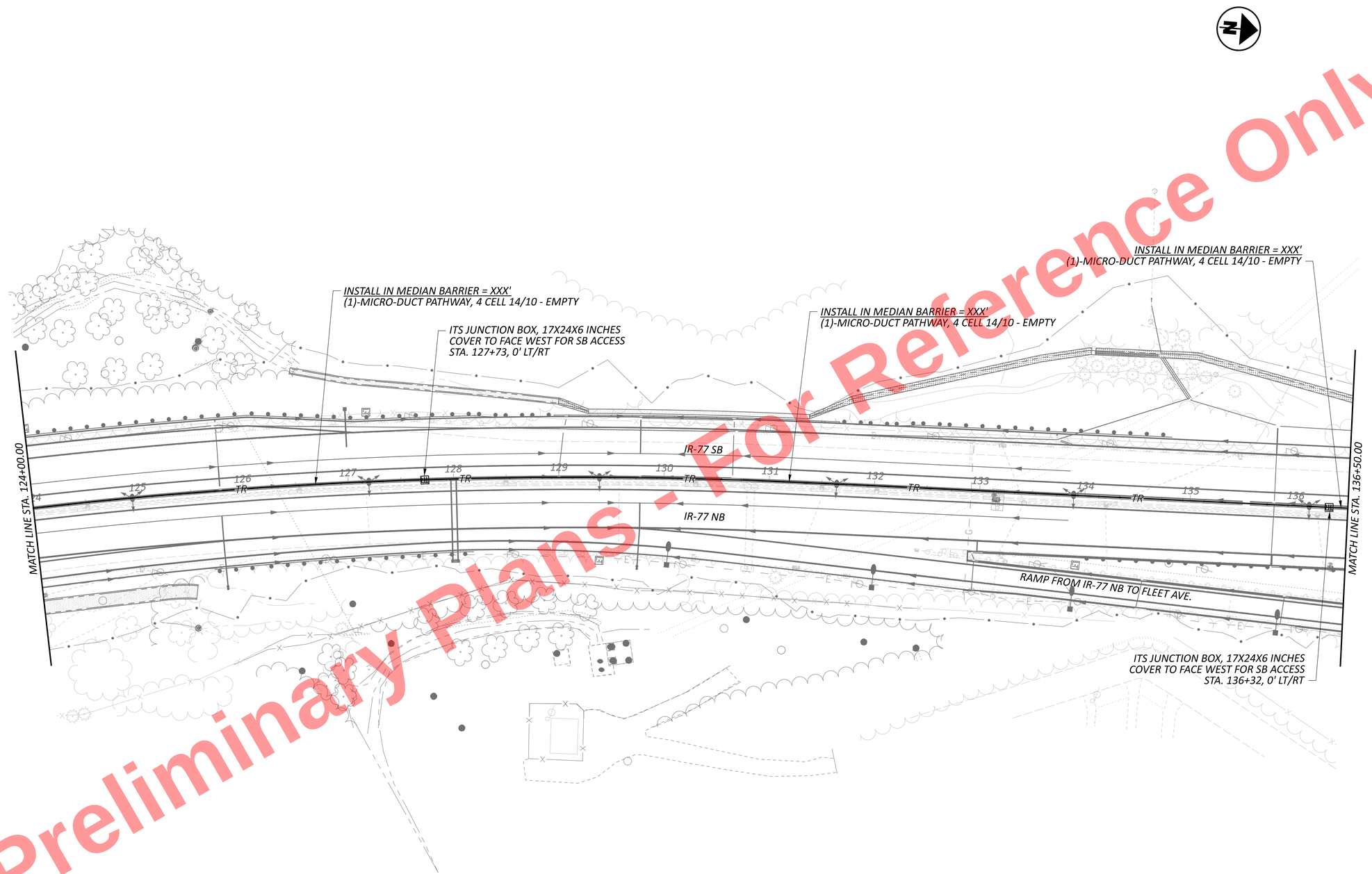
DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1003 TOTAL P.1135




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 124+00 TO STA. 136+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:33 PM USER: kperkins
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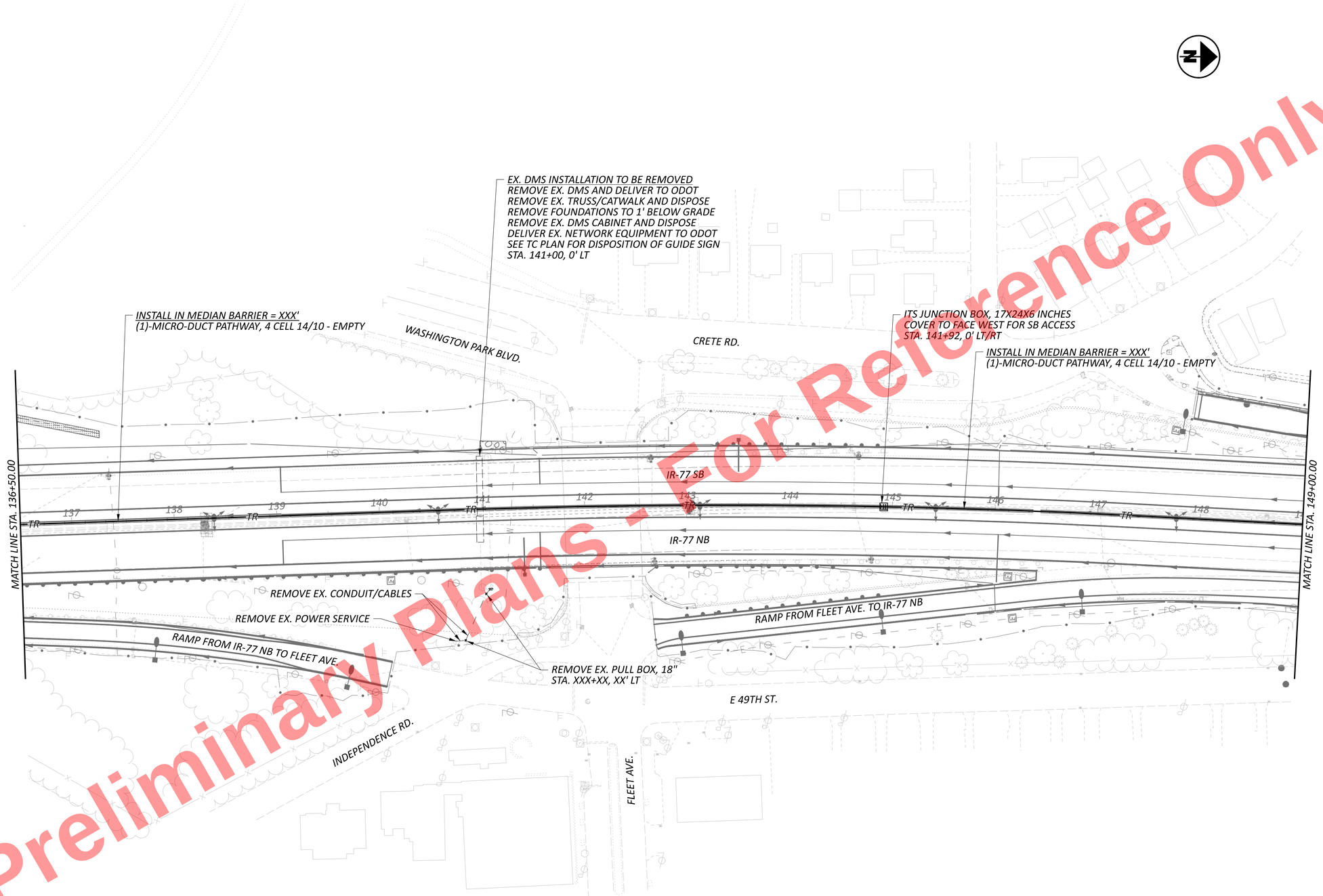
DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1004 TOTAL P.1135




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 136+50 TO STA. 149+00

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1005 TOTAL P.1135

CUY-77-11.41 - PART 1

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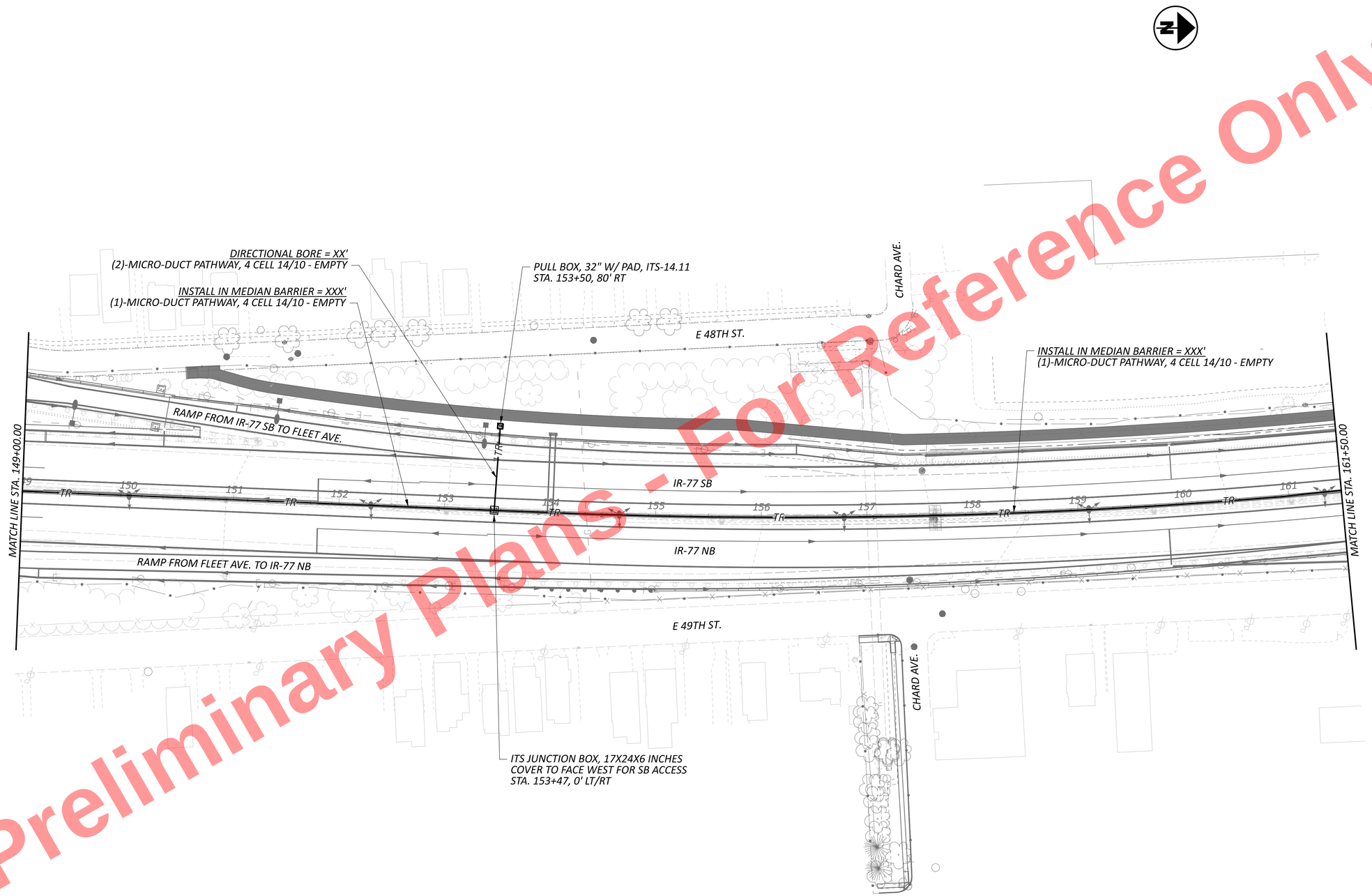
Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 149+00 TO STA. 161+50

CUY-77-11.41 - PART 1

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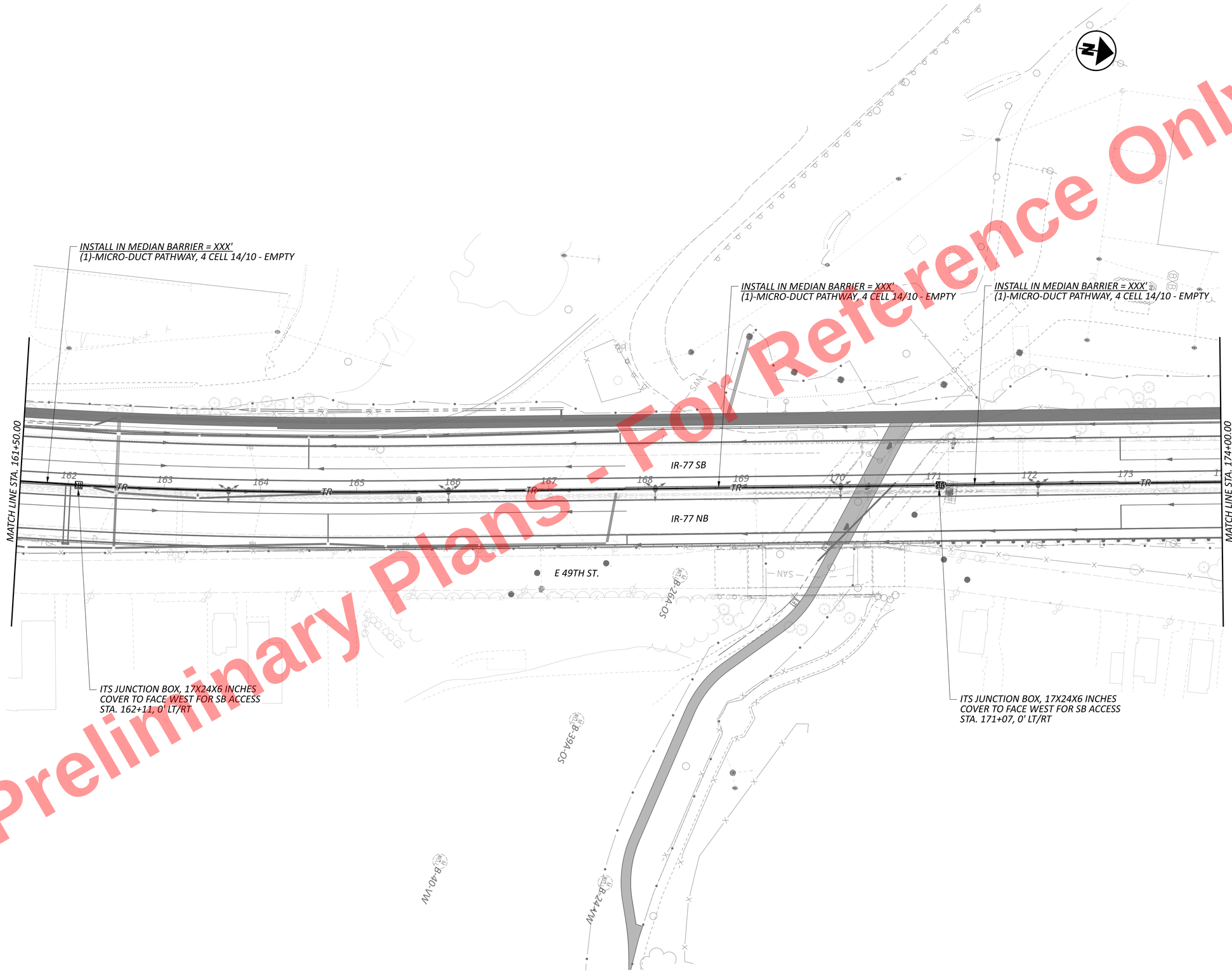
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | NSJ |
| REVIEWER | NRS 10/31/25 |
| PROJECT ID | 105743 |
| SHEET | P.1006 |
| TOTAL | P.1135 |

Preliminary Plans - Not For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLANTS PLAN
## STA. 161+50 TO STA. 174+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:39 PM USER: kperkins
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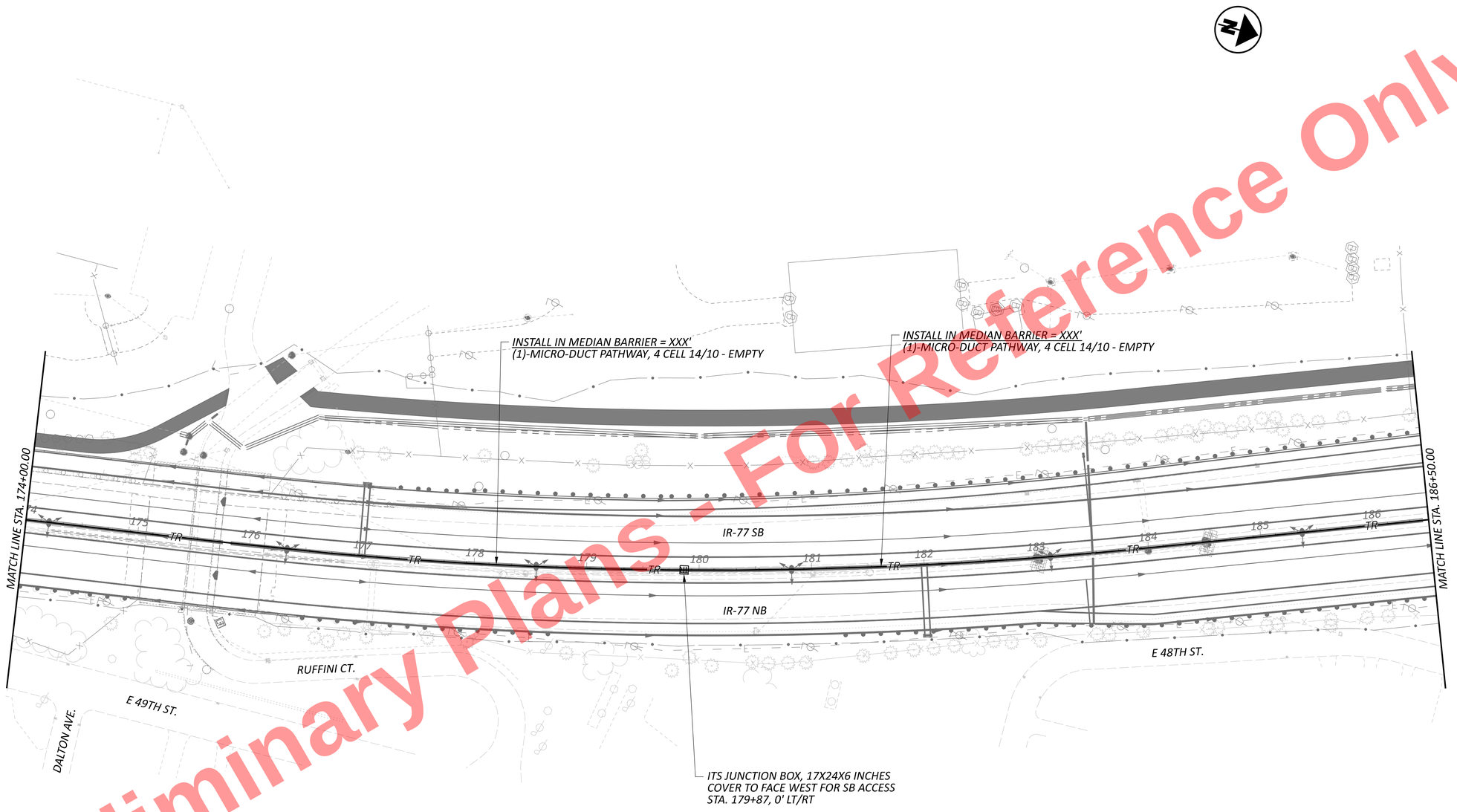
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | NSJ |
| REVIEWER | NRS 10/31/25 |
| PROJECT ID | 105743 |
| SHEET | P.1007 |
| TOTAL | P.1135 |




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 174+00 TO STA. 186+50

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1008 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:43 PM USER: kperkins
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EX. PULL BOX, 18" (ATG)
STA. 197+29, 130' LT

CCTV POLE, 70' TALL (25' EMBEDMENT FOR CONCRETE POLE)
W/ (1)-CCTV IP-CAMERA SYSTEM, PTZ
STA. 197+35, 125' LT

REMOVE EX. CONDUIT/CABLES

EX. CONCRETE CCTV POLE TO BE REMOVED
REMOVE EX. ATR AND DISPOSE
REMOVE EX. ITS CABINET AND DISPOSE
REMOVE EX. NETWORK EQUIPMENT, CCTV,
AND LOWERING DEVICE AND DELIVER TO ODOT
STA. 197+38, 65' LT

GROUND MOUNTED ITS CABINET, ITS-18.00
W/ CDMA MODEM, CCTV EQUIPMENT, AND SWITCH
FURNISH EQUIPMENT FOR INSTALLATION BY ODOT ITS
STA. 197+35, 131' LT

PULL BOX, 32", ITS-14.11
REMOVE EX. PULL BOX, 18"
STA. 197+41, 130' LT

WORK PAD, ITS-10.11

INSTALL IN TRENCH = XXX'
(1)-4" CONDUIT, HDPE, MULTICELL W/ (4)-1" INNERDUCTS - EMPTY

PULL BOX, 32" W/ PAD, ITS-14.11
W/ HINGED LID ASSEMBLY
STA. 197+45, 73' LT

CCTV DETAIL

INSTALL IN MEDIAN BARRIER = XXX'
(1)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

INSTALL IN MEDIAN BARRIER = XXX'
(1)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 188+67, 0' LT/RT

MAINTAIN EX. POWER SERVICE
120/240V, 100A, 1PH, 3W
STA. XXX+XX, XX' LT

MAINTAIN EX. CONDUIT/CABLES

DIRECTIONAL BORE = XX'
(2)-MICRO-DUCT PATHWAY, 4 CELL 14/10 - EMPTY

RAMP FROM PERSHING AVE. TO IR-77 SB

IR-77 SB

IR-77 NB

MATCH LINE STA. 186+50.00

MATCH LINE STA. 199+00.00

RAMP FROM IR-77 NB TO PERSHING AVE.

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 197+43, 0' LT/RT

PERSHING AVE.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 186+50 TO STA. 199+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:44 PM USER: kperkins
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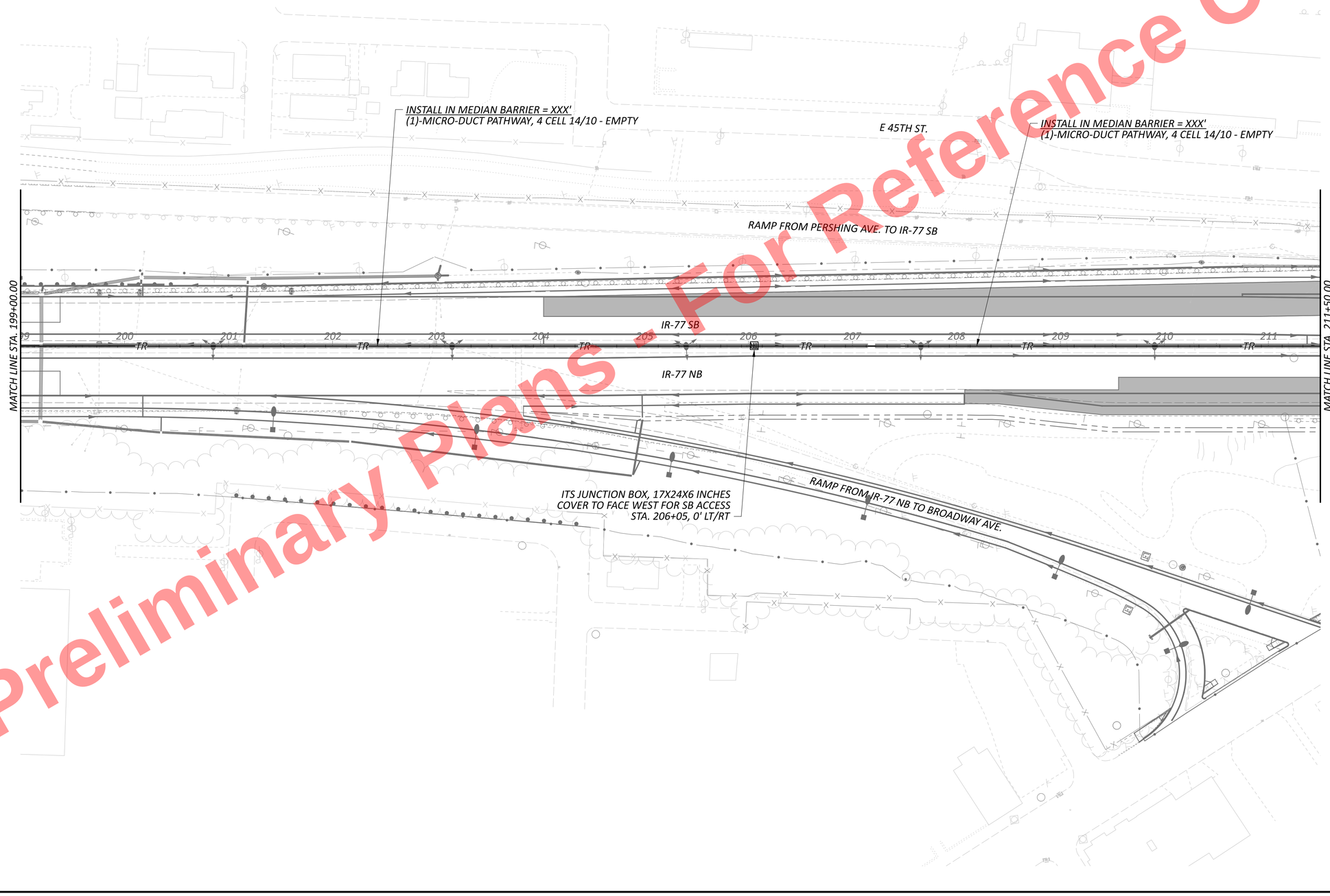
DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1009 | TOTAL P.1135




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLANS
## STA. 199+00 TO STA. 211+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:46 PM USER: kperkins
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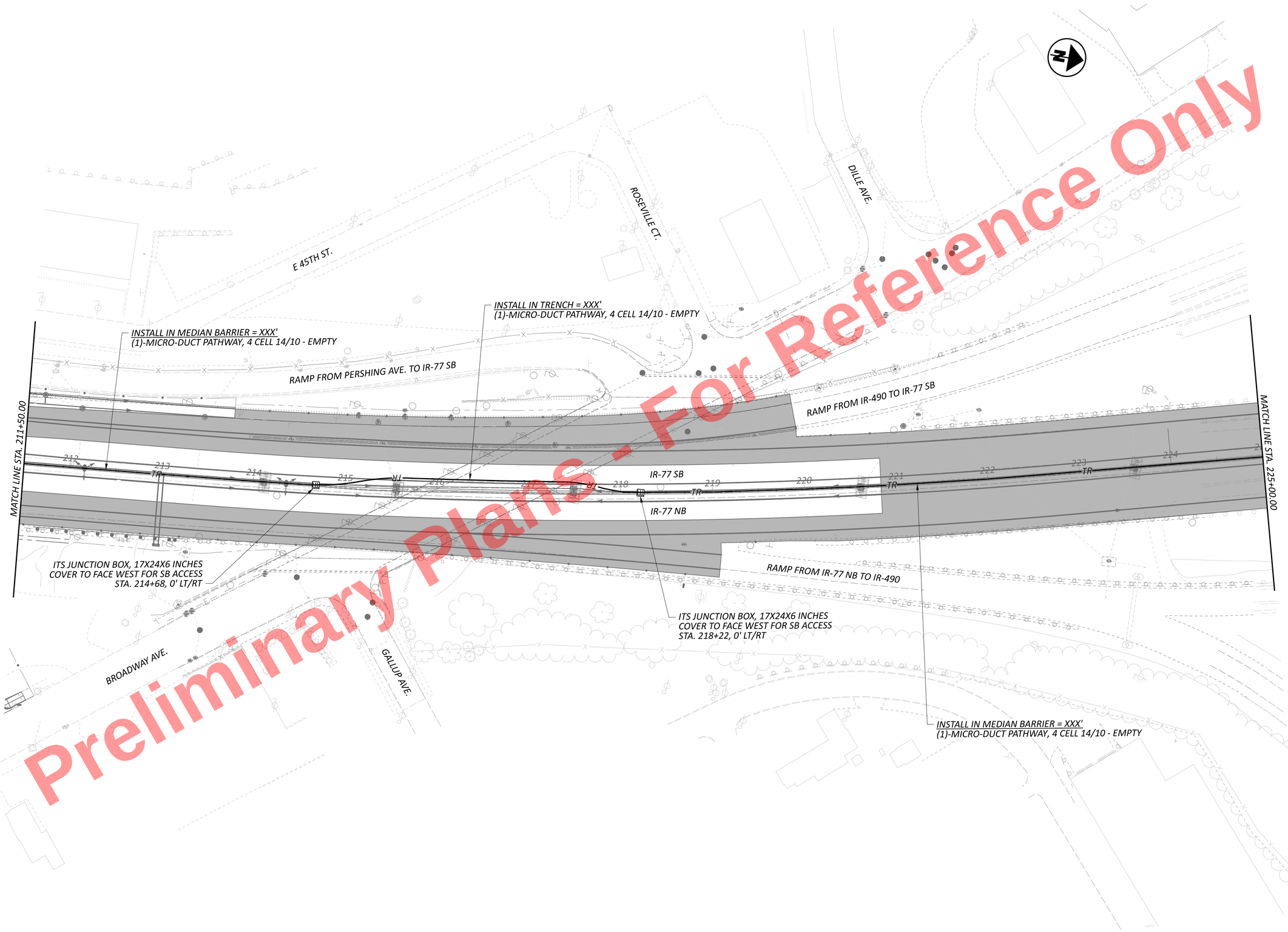
DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | NSJ |
| REVIEWER | NRS 10/31/25 |
| PROJECT ID | 105743 |
| SHEET | P.1010 |
| TOTAL | P.1135 |

Preliminary Plans - For Reference Only




HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 211+50 TO STA. 225+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1011 TOTAL P.1135

MODEL: CLP_i077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:48 PM USER: kperkins
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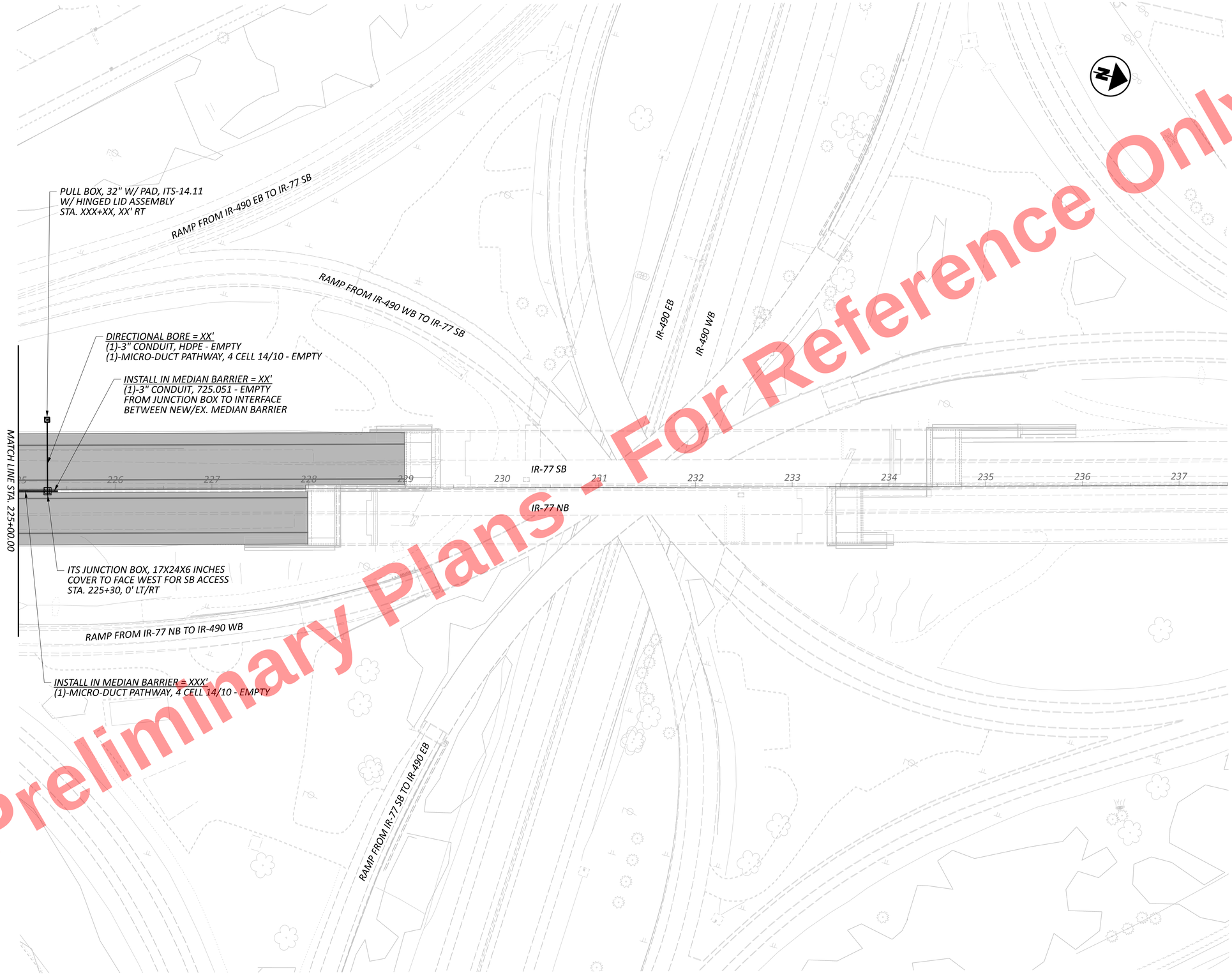


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# ITS PLAN
## STA. 225+00 TO END WORK

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1012 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:36:49 PM USER: kperkins
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## LIGHTING

LIGHTING GENERAL NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, (CMS) DATED JANUARY 1, 2023, WHICH SHALL GOVERN ALL WORK OF THIS PROJECT, EXCEPT AS HEREINAFTER MODIFIED.

### 625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CLEVELAND PUBLIC POWER
1300 LAKESIDE AVE., ROOM 152
CLEVELAND, OHIO 44114
ATTN: CHRIS HIRZEL
PHONE: 216-563-7212
EMAIL: CHIRZEL@CPP.ORG

POWER SERVICE FOR OHIO FACILITY LIGHTING: 240/480 VOLT 3-WIRE, SINGLE PHASE.
POWER SERVICE FOR CITY OF CLEVELAND UNDERPASS FACILITY LIGHTING: 120/240 VOLT 3-WIRE, SINGLE PHASE.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS.

THE PROPOSED PHOTOCELL SHOULD BE PLACED 1'-2' ABOVE THE LIGHTING CONTROL CENTER (LCC) ENCLOSURE.

THE CONCRETE WORK PAD IS INCLUDED IN THIS PAY ITEM.

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

### DISCONNECT CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF THE DISCONNECTION OF AN EXISTING LIGHT CIRCUIT AT A PULL BOX OR TRANSFORMER BASE.

DISCONNECTION AT A PULL BOX SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL SPLICE KITS. ANY CABLE THAT IS TO BE ABANDONED SHALL BE TERMINATED FROM THE PULL BOX SO THAT NO CABLE IS LEFT IN THE BOX.

DISCONNECTION AT A LIGHT POLE SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL CONNECTOR KITS. ALL DUCT-CABLE NOT TO BE REUSED SHALL BE REMOVED FROM THE TRANSFORMER BASE AND THE EXISTING CONDUIT IN THE FOUNDATION SHALL BE CLEANED OF ALL CABLE AND DEBRIS SO THAT THE NEW DUCT-CABLE CAN BE INSTALLED. ALL EXISTING CABLE TO REMAIN ACTIVE SHALL BE CUT IN A MANNER SO THAT THERE IS SUFFICIENT CABLE LEFT FOR RE-CONNECTION. THOSE WIRES THAT ARE TO REMAIN ON ACTIVE CIRCUITS SHALL HAVE A WATER-RESISTANT SEAL AT THE CUT END. THE WATER-RESISTANT SEAL SHALL BE ACCOMPLISHED BY PLUGGING THE DEACTIVATED PORT OF AN EXISTING CONNECTOR KIT OR BY INSTALLING A CABLE SPLICE KIT ON THE CUT END OF THE CABLE.

### OUPS NOTE

WHEN THE PROJECT BEGINS AND THE CONTRACTOR HAS TAKEN OVER THE MAINTENANCE OF THE EXISTING SYSTEM, THEY SHALL PROVIDE ALL REQUIRED LAYOUTS AND LOCATIONS OF THE EXISTING AND PROPOSED ELECTRICAL CIRCUITS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LOCATE AND MARK THE UNDERGROUND ELECTRICAL CIRCUITS DURING THE DURATION OF THE PROJECT.

### 625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES TYPE II DISTRIBUTION SHALL BE

COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON) WITH PHOTOMETRIC DISTRIBUTION VERD-CA2-100-730-U-T2, TWO LAMPS, 13,612 LUMENS OUTPUT.

AMERICAN ELECTRIC LIGHTING WITH PHOTOMETRIC DISTRIBUTION ATBM P30 XXXXX R2 3K, 14,637 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS WITH PHOTOMETRIC DISTRIBUTION ERL1_14B530, 13,400 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### 625, LUMINAIRE, LOW MAST, SYMMETRIC, SOLID STATE (LED), AS PER PLAN

THE LUMINAIRES SHALL BE AS SPECIFIED FOR LOW-MAST LUMINAIRES IN CMS 725.11 EXCEPT THAT THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS ARE HEREBY WAIVED. IN ADDITION, THE LUMINAIRES FOR LOW-MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES FOR LOW-MAST LIGHTING UNITS WITH SYMMETRIC DISTRIBUTION SHALL BE

COOPER "CELESTEON" WITH PHOTOMETRIC DISTRIBUTION CST-CA10-310-730-U-T5R, TEN LAMPS, 50,920 LUMENS OUTPUT.

HOLOPHANE "HMLED4" WITH PHOTOMETRIC DISTRIBUTION HMLED4 P2 30K XXXXX AW, 43,659 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS EVOLVE WITH PHOTOMETRIC DISTRIBUTION ERHM03_50VW730, 50,301 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, LOW MAST, SYMMETRIC, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### 625, PULL BOX CLEANED

THIS ITEM OF WORK SHALL CONSIST OF CLEANING AN EXISTING PULL BOX BY REMOVING ANY EXISTING CABLES NOT BEING RECONNECTED, AND DEBRIS SO THAT NEW CABLES CAN BE INSTALLED. ANY UNUSED OPENINGS SHALL BE CLOSED. DISTURBED AREAS NEAR THE PULL BOX SHALL BE CLEARED OF WEEDS OR DEBRIS AND SHALL BE FULLY RESTORED. MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF OF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625, "PULL BOX CLEANED" FOR EACH PULL BOX CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### 625, LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM41.25

WHEN A LIGHT POLE IS MOUNTED ON THE MEDIAN, THE REQUIRED ANCHOR BOLTS MAY DIFFER IN LENGTH AND/OR SHAPE FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION. THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH CMS ITEM 625, "LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM50" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

### 625, LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS.

METHOD OF MEASUREMENT SHALL BE PER 825.06. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LIGHTING SUBSUMMARY.

PS-GRA: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/GRANT AVE)
PS-HAR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/HARVARD AVE)
PS-PER: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/PERSHING AVE)
PS-MOR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/MORGANA RUN)
PS-RUF: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/RUFFINI CT)

### 625, LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR UNDERPASS LIGHTING UNITS SHALL BE AS FOLLOWS:

AT MORGANA RUN TRAIL, LUMINAIRES SHALL BE CEILING MOUNT.

LUMINAIRES FOR MORGANA RUN TRAIL UNDERPASS LIGHTING UNITS SHALL BE
HOLOPHANE - TUNNELPASS LED WITH PHOTOMETRIC DISTRIBUTION TNLEDMED PK1 30K XXXXX CLN, 6,336 LUMENS OUTPUT.
GE - EVOLVE WITH PHOTOMETRIC DISTRIBUTION ECLP01_B5SM730_____-120-277V, 6,900 LUMENS OUTPUT.
COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-5MQ-7030, 16 LAMPS, 6,464 LUMENS OUTPUT.

AT RUFFINI CT, LUMINAIRES SHALL BE SIDE MOUNT.

LUMINAIRES FOR RUFFINI CT UNDERPASS LIGHTING UNITS SHALL BE
HOLOPHANE - WALLPACK LED WITH PHOTOMETRIC DISTRIBUTION WCNG P2 30K T3M, 4,027 LUMENS OUTPUT.
GE - EWAS WITH PHOTOMETRIC DISTRIBUTION EWAS01_B4AF730_____-120-277V, 4,900 LUMENS OUTPUT.
COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-T3-7030-600, 16 LAMPS, 4,048 LUMENS OUTPUT.

LUMINAIRES FOR UNDERPASS LIGHTING UNIT SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 10-AMPERE FUSES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN

SERVICE TO UNDERPASS LIGHTING SHALL PROVIDE A COMPLETE ELECTRICAL SYSTEM FOR THE UNDERPASS LIGHTING SYSTEM, EXCEPT FOR LUMINAIRES. INCLUDED IN THIS INSTALLATION ARE ALL CONDUIT, STRUCTURE GROUNDINGS, MOUNTINGS, FITTINGS, SPLICE KITS, JUNCTION BOXES, CONDUCTORS, DISCONNECT SWITCHES, GROUND RODS, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625,"SERVICE, UNDERPASS LIGHTING, AS PER PLAN" FOR EACH UNDERPASS SERVICE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

### 625, UNDERDRAINS FOR PULLBOXES

REFERENCE TRAFFIC SCD HL-30.11 FOR DETAILS ABOUT DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE LIGHTING SUBSUMMARY FOR THIS PURPOSE:

ITEM 611 4" CONDUIT, TYPE E.....600 FT.

### SPECIAL, MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET, AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "B" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING. ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

Preliminary Plans - For Reference Only



DESIGN AGENCY
AECOM
DESIGNER
CX
REVIEWER
MAW 11-17-25
PROJECT ID
105743
SHEET P.1013 TOTAL 1135

CUY-77-11.41 - PART 1
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## 614 MAINTAINING TRAFFIC, MISC.: WORK ZONE HIGHWAY LIGHTING SYSTEM

DESCRIPTION:

THIS WORK CONSISTS OF DESIGNING, FURNISHING, INSTALLING AND MAINTAINING A HIGHWAY LIGHTING SYSTEM FOR THE CUY-77 THROUGH THE LIFE OF THE CONSTRUCTION PROJECT. THE WORK SHALL ALSO INCLUDE REMOVAL OF ANY TEMPORARY LIGHTING APPURTENANCES INSTALLED BY THE CONTRACTOR TO FACILITATE THE LIGHTING SYSTEM AND RESTORATION OF ANY EXISTING FEATURES TO REMAIN THAT HAVE BEEN AFFECTED BY THE ABOVE WORK WHEN THE PERMANEN LIGHTING HAS BEEN COMPLETED AND IS OPERATIONAL. WORK ALSO INCLUDES PROVIDING POWER FOR THE LIGHTING SYSTEM. ODOT POWER SHALL NOT BE USED TO POWER THE WORK ZONE LIGHTING SYSTEM.

THE CONTRACTOR MAY USE THE EXISTING LIGHTING, PROPOSED LIGHTING, TEMPORARY LIGHTING OR ANY COMBINATION OF THESE TO CREATE THE SYSTEM. IT IS LEFT TO THE DISCRETION OF THE CONTRACTOR TO SELECT HIS/HER DESIRED METHOD(S) TO COMPLETE THE WORK AS DESCRIBED ABOVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EVALUATE THE CONDITION AND FUNCTIONALITY OF THE EXISITNG LIGHTING SYSTEM PRIOR TO BIDDING. THE EXISTING LIGHTING SYSTEM WILL BE GIVEN TO THE CONTRACTOR AS-IS UPON NOTICE TO PROCEED. ANY NECESSARY REPAIRS, MODIFICATIONS OR MAINTENANCE TO THE SYSTEM SO THAT IT MAY BE UTILIZED DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. A MINIMUM OF 7 DAYS PRIOR TO COMMENCING ANY WORK THE CONTRACTOR SHALL SUBMIT A LIGHTING PLAN TO THE ENGINEER FOR APPROVAL. ANY CHANGES OR ALTERATIONS TO THE SYSTEM DURING THE PROJECT'S LIFE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

MATERIALS:
ALL TEMPORARY LIGHTING EQUIPMENT INSTALLED UNDER THIS ITEM SHALL BE IN CONFORMANCE WITH CMS 625 AND 725. THE PERFORMANCE TEST OF 625.19F AND DRAWING REQUIREMENTS OF 625.06 ARE WAIVED. USED EQUIPMENT IN GOOD CONDITION IS ACCEPTABLE.

SYSTEM PERFORMANCE REQUIREMENTS AND SPECIFICATIONS:
1.) A PHOTOCELL SHALL TURN ON THE LIGHTING SYSTEM WHEN AMBIENT ILLUMINATION IS BELOW 3 FOOT-CANDLES.

2.) IF TEMPORARY LIGHTING IS PROVIDED IT SHALL ACHIEVE AVERAGE ILLUMINANCE OF THE TRAVELED WAY PAVEMENT OF 1.2 FOOT-CANDLES (12.9 LUX) WITH A 3:1 UNIFORMITY. IF EXISTING OR PROPOSED PERMANENT LIGHTING IS BEING USED THIS CRITERIA IS WAIVED UNDER THE CONDITION THAT ILLUMINANCE OF THE TRAVELED WAY IS NO LOWER THAN THE EXISTING DESIGN ILLUMINANCE LEVELS. IF ILLUMINANCE LEVELS ARE DEEMED INADEQUATE BY THE PROJECT ENGINEER THE CONTRACTOR SHALL MAKE MODIFICATIONS TO THE SYSTEM TO THE SATISFACTION OF THE ENGINEER PRIOR TO CONTINUING WORK.

3.) TEMPORARY LUMINAIRES SHALL BE AMERICAN OR HOLOPHONE OFF-ROADWAY UNIT WITH 400 WATT HPS OR 1000 WATT MERCURY LAMP OR APPROVED EQUAL. MOUNTING SHALL BE PER MT-100.00.

4.) ALL LIGHTING APPURTENANCES SHALL BE PLACED IN A MANNER TO NOT CREATE A HAZARD TO MOTORISTS AND PEDESTRIANS. THE CONTRACTOR SHALL PROVIDE AT HIS/HER EXPENSE TEMPORARY PROTECTION OF APPURTENANCES PLACED WITHIN CLEAR ZONES. PROPER BARRIER OFFSETS BEHIND GUARDRAIL AND OTHER BARRIER (PERMANENT AND TEMPORARY) SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL CLEARANCE OF 27 FEET OVER THE ROADWAY SHALL BE MAINTAINED AT ALL TIMES.

5.) ALL LUMINAIRES SHALL BE PLACED IN A MANNER THAT PROPERLY ILLUMINATES THE TRAVELED WAY BUT DOES NOT CAUSE GLARE TO DRIVERS ON THE ROADWAY. IF THE ENGINEER DETERMINES A GLARE ISSUE IS PRESENT THE CONTRACTOR SHALL CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

BASIS OF PAYMENT
PAYMENT FOR THE ABOVE WORK SHALL BE MADE WITH THE LUMP SUM PAYMENT FOR ITEM 614 MAINTAINING TRAFFIC, MISC.: WORK ZONE HIGHWAY LIGHTING SYSTEM. THIS LUMP SUM SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS TO SUPPLY AND MAINTAIN A HIGHWAY LIGHTING SYSTEM FOR THE WEST SHOREWAY CORRIDOR THROUGHOUT THE LIFE OF THE PROJECT.

## 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED ACCORMATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

## FLOOD LIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

## 625, LIGHT POLE FOUNDATION REMOVED

A CONTINGENCY QUANTITY IS BEING PROVIDED TO REMOVE OLDER LIGHT POLE FOUNDATIONS ALONG THE OUTSIDES OF I-77 THAT WERE PREVIOUSLY LEFT IN PLACE DURING THE CONSTRUCTION OF PROJECTS PID 98658 AND PID 98816.

THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE LIGHTING SUBSUMMARY FOR THIS PURPOSE AND USE AS DIRECTED BY THE PROJECT ENGINEER:

ITEM 625 LIGHT POLE FOUNDATION REMOVED.....200 EACH.

Preliminary Plans - For Reference Only



DESIGN AGENCY
AECOM
DESIGNER
CX
REVIEWER
MAW 11-17-25
PROJECT ID
105743
SHEET P.1014 TOTAL 1135



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Preliminary Plans - For Reference Only

LEGEND

- LOW MAST LIGHT POLE (41.25' SUPPORT HEIGHT) W/ 1-LED LUMINAIRE, TYPE V (SYMMETRICAL)
- 40' LIGHT POLE WITH LED LUMINAIRE
- WALL MOUNTED UNDERPASS LED LUMINAIRE
- 1-1/2" DUCT CABLE WITH 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED) OR 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND, IN 4" CONDUIT IN MEDIAN BARRIER (TYPICAL, UNLESS NOTED)
- 3" CONDUIT, 725.04 WITH 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED)
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 480V, WITH GROUND)
- EXISTING POWER SERVICE/LCC
- PULL BOX / JUNCTION BOX
- EXISTING LIGHTING POLE

EXISTING PULL BOXES & CONDUITS DO NOT DISTURB

STA. 400+38, RAMP A4
67' RT. EXISTING
LIGHTING CONTROL
CENTER TO REMAIN

PS-GRA — STA. 400+48, RAMP A4
63' RT.
GROUND MOUNTED
LIGHTING CONTROL
CENTER (LCC)

PB-GRA1 — STA. 400+52, RAMP A4
51' RT.
PULL BOX, 725.08, 24"
(3 SPLICES)

EXISTING PULL BOXES & CONDUITS DO NOT DISTURB

RP-XX — STA. 400+97, RAMP A4
15' RT. EXISTING POLE
TO BE REMOVED

GRA-A1 — STA. 401+20, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-XX — STA. 77+09, I-77
68' RT. EXISTING POLE
TO BE REMOVED

RP-XX — STA. 402+49, RAMP A4
10' RT. EXISTING POLE
TO BE REMOVED

GRA-A2 — STA. 403+16, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-XX — STA. 79+08, I-77
69' RT. EXISTING POLE
TO BE REMOVED

RP-XX — STA. 404+02, RAMP A4
9' RT. EXISTING POLE
TO BE REMOVED

GRA-A3 — STA. 405+11, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-XX — STA. 405+45, RAMP A4
9' RT. EXISTING POLE
TO BE REMOVED

RP-XX — STA. 81+06, I-77
59' RT. EXISTING POLE
TO BE REMOVED

GRA-A4 — STA. 407+08, RAMP A4
15' RT.
LIGHT POLE AT12B40

STA. 77+25, ℄ I-77
LIGHT POLE ALM 41.25 — GRA-A5

STA. 77+35, I-77
57' LT. EXISTING POLE
TO BE REMOVED — RP-XX

EXISTING PULL BOXES & CONDUITS DO NOT DISTURB

STA. 301+07, RAMP A3
67' LT. EXISTING
LIGHTING CONTROL
CENTER TO REMAIN

STA. 301+23, RAMP A3
24' LT. EXISTING POLE
TO BE REMOVED — GRA-A19

STA. 301+37, RAMP A3
22' LT. EXISTING POLE
TO BE REMOVED — RP-XX

STA. 302+19, RAMP A3
13' LT. EXISTING POLE
TO BE REMOVED — GRA-A18

STA. 79+40, I-77
66' LT. EXISTING POLE
TO BE REMOVED — RP-XX

STA. 79+43, ℄ I-77
LIGHT POLE ALM 41.25 — GRA-A6

STA. 303+02, RAMP A3
12' LT. EXISTING POLE
TO BE REMOVED — RP-XX

STA. 304+15, RAMP A3
15' LT. EXISTING POLE
TO BE REMOVED — GRA-A17

STA. 81+40, I-77
66' LT. EXISTING POLE
TO BE REMOVED — RP-XX

STA. 304+65, RAMP A3
12' LT. EXISTING POLE
TO BE REMOVED — RP-XX

STA. 81+35, ℄ I-77
LIGHT POLE ALM 41.25 — GRA-A7

GRANT AVENUE
RAMP A1
RAMP A2
RAMP A3
RAMP A4
I.R. 77 NB
I.R. 77 SB
CKT GRA-A
Ex LA-R/W
Ex R/W
Ex LA

MATCH LINE STA. 82+50, SEE SHEET P.1016

FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

# LIGHTING PLAN
# BEGINNING T0 STA. 82+50

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGN AGENCY: AECOM
DESIGNER: CX
REVIEWER: MAW 11-17-25
PROJECT ID: 105743
SHEET: P.1015 TOTAL: 1135

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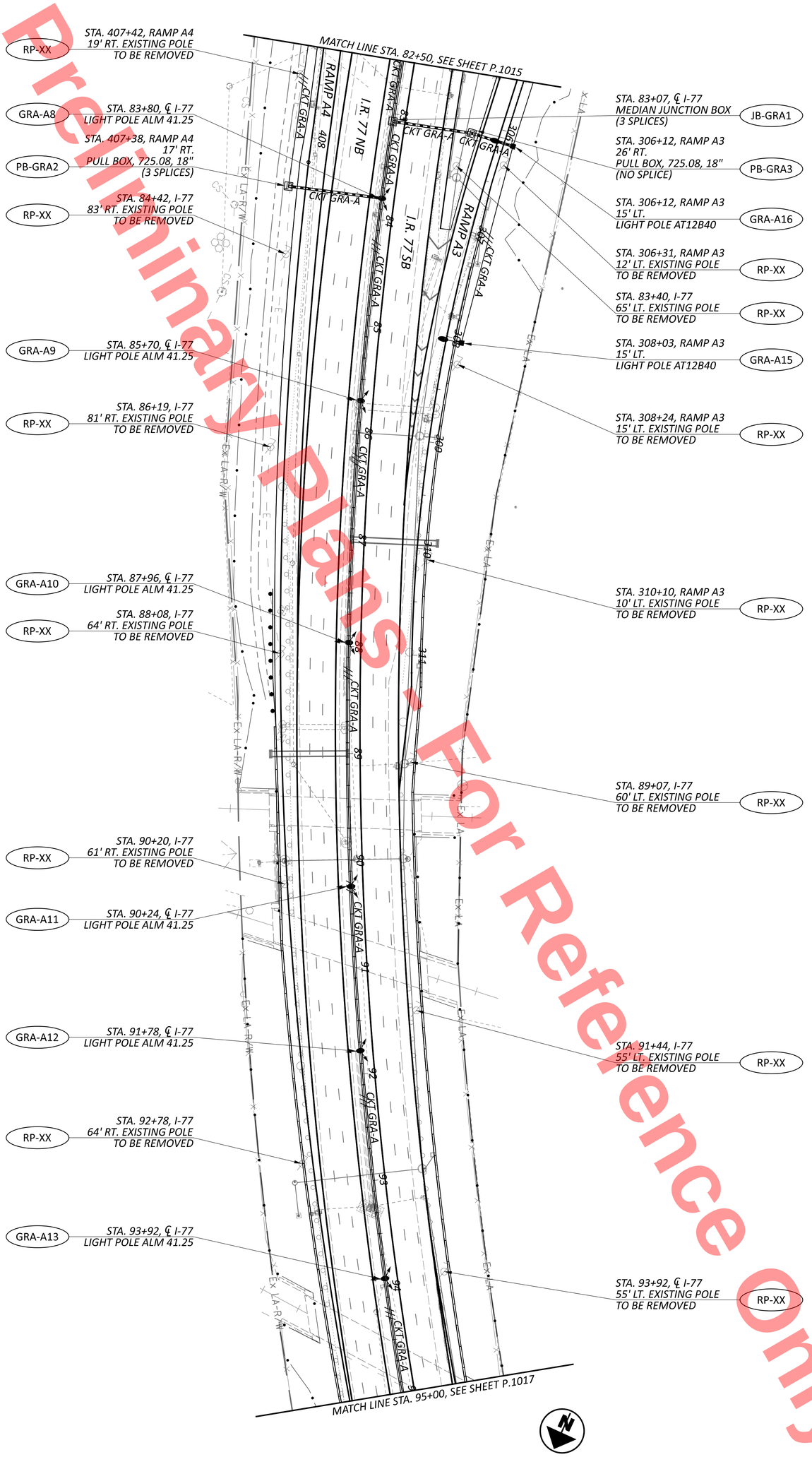
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

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|---|---|---|---|---|---|
| SHEET P.1016 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

# LIGHTING PLAN
## STA. 82+50 TO 95+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:41:22 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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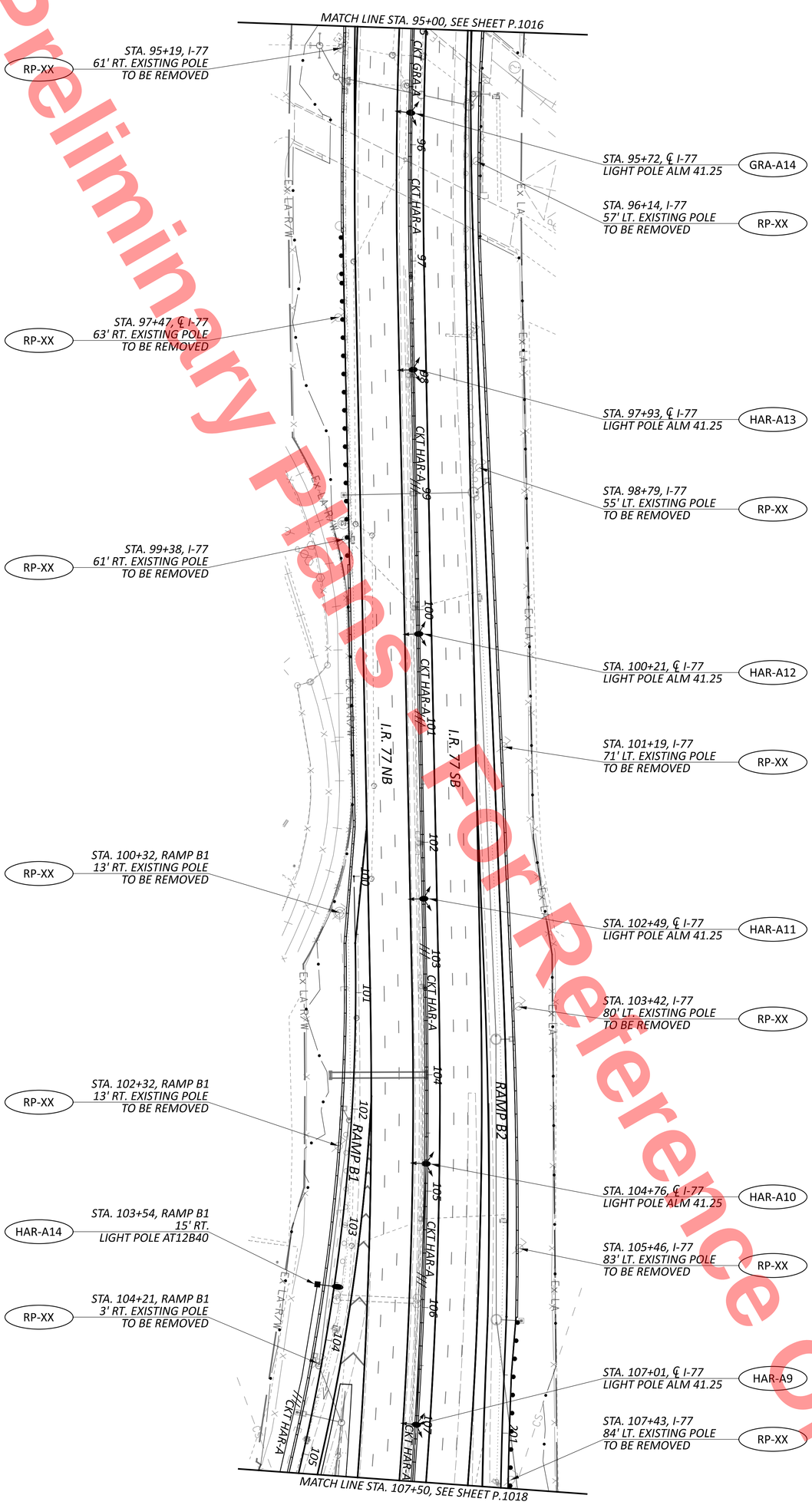
Preliminary Plans For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| SHEET | TOTAL |
|---|---|
| P.1017 | 1135 |

| PROJECT ID | REVIEWER |
|---|---|
| 105743 | MAW 11-17-25 |

| DESIGNER | DESIGN AGENCY |
|---|---|
| CX | AECOM |

# LIGHTING PLAN
## STA. 95+00 TO STA. 107+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:41:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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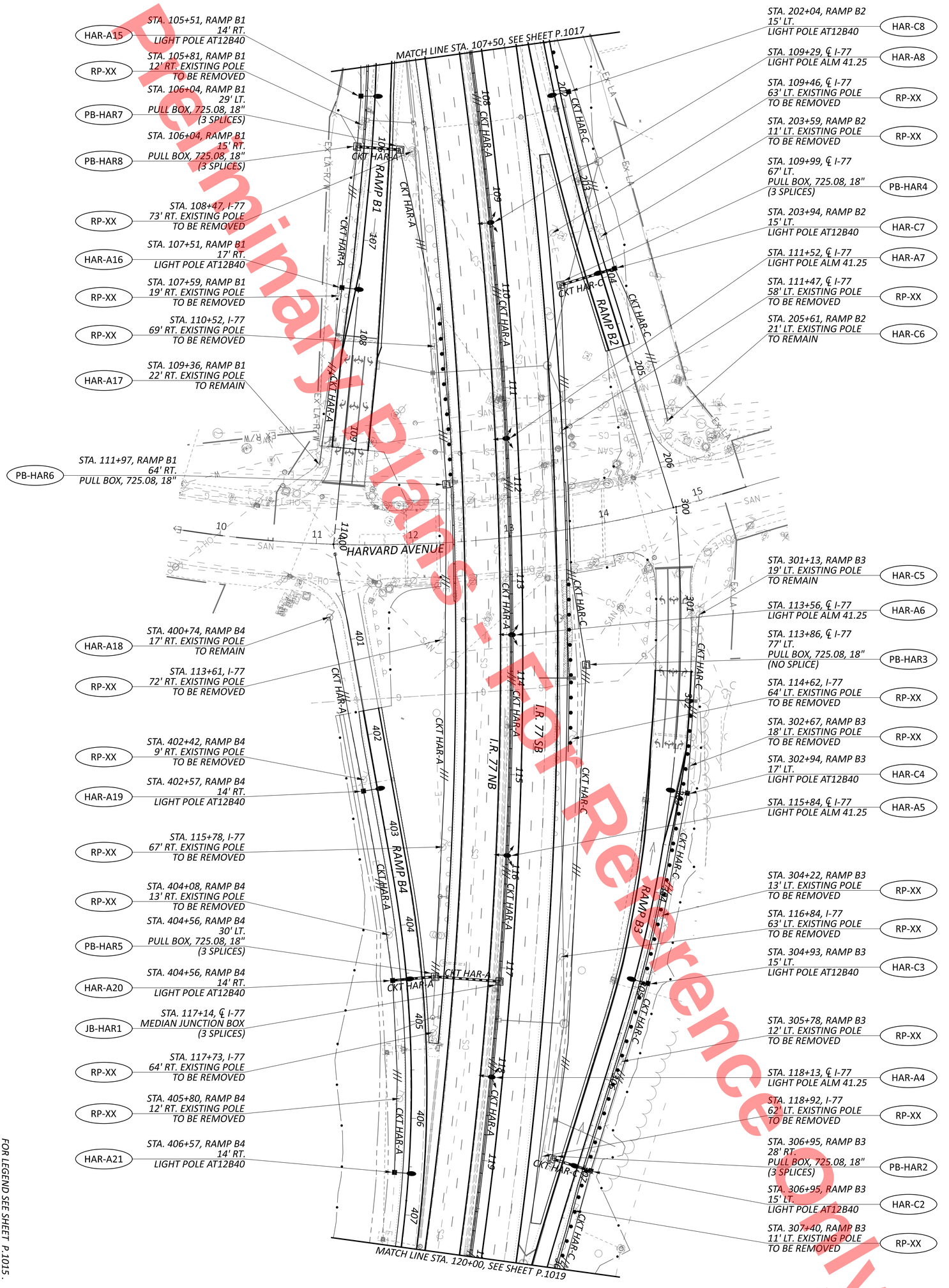
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

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|---|---|---|---|---|---|
| SHEET P.1018 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

# LIGHTING PLAN
## STA. 107+50 TO STA. 120+00

HORIZONTAL SCALE IN FEET
0 50
25 100

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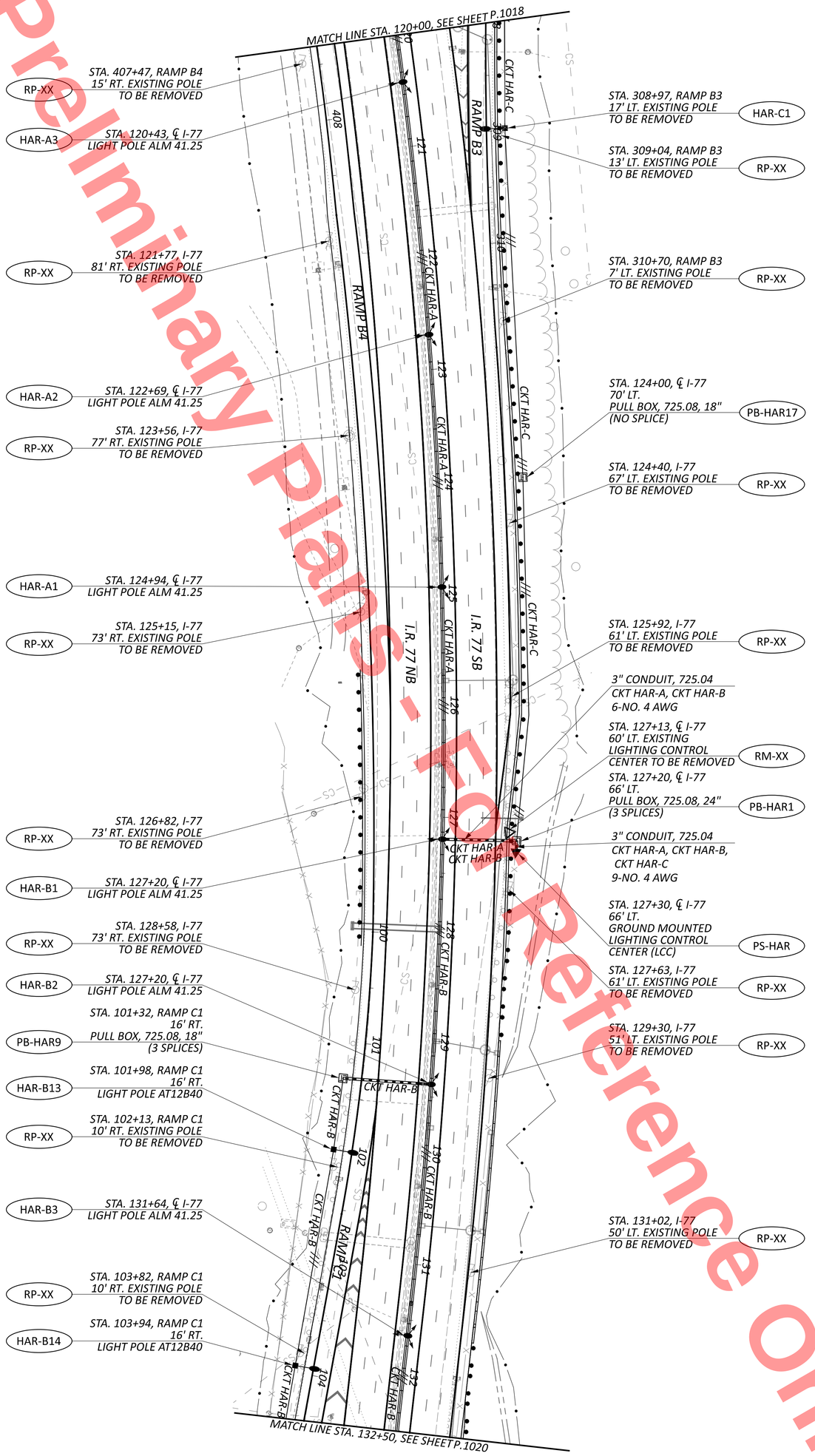
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1019 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

# LIGHTING PLAN
## STA. 120+00 TO STA. 132+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:41:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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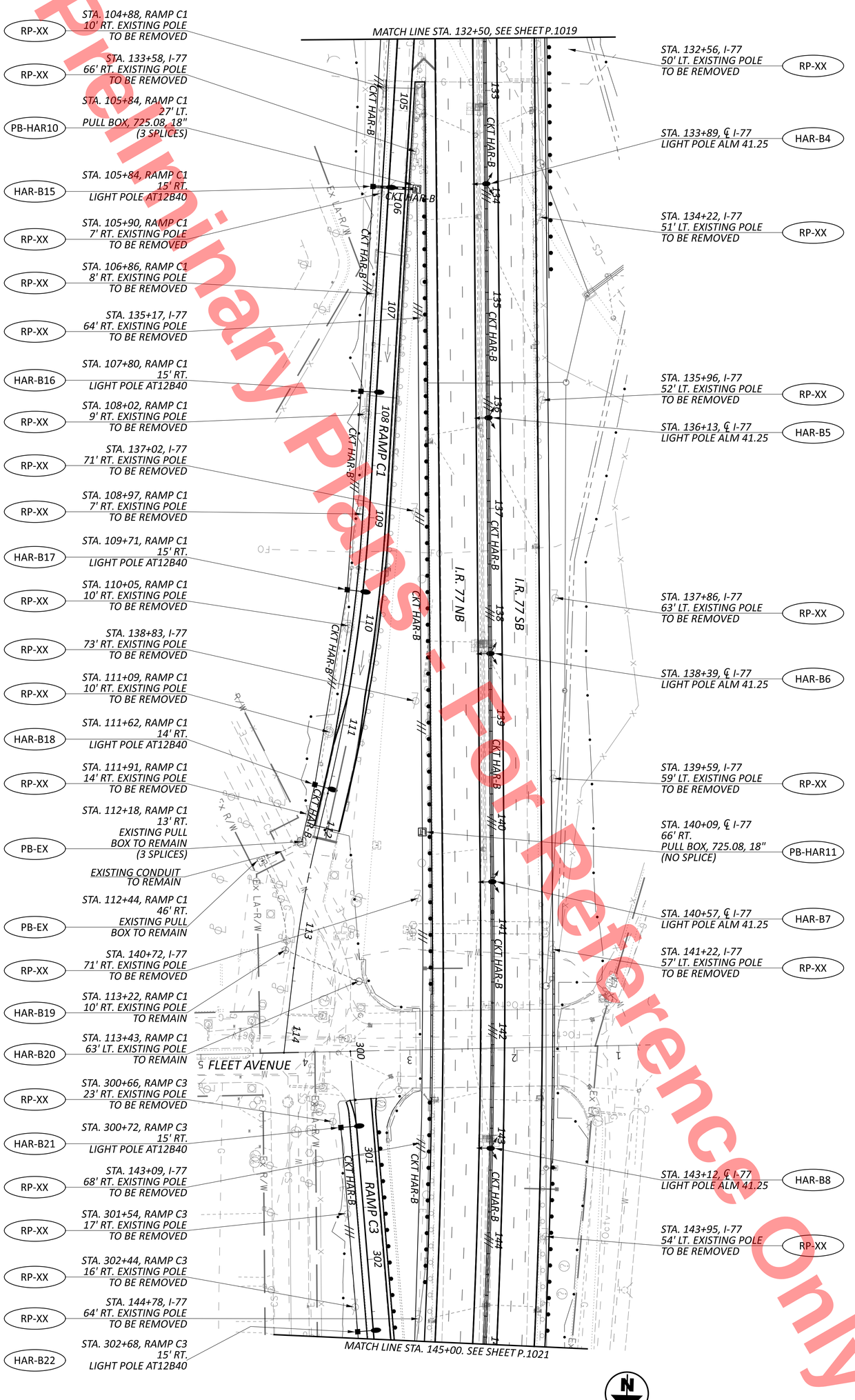
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1020 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

# LIGHTING PLAN
## STA. 132+50 TO STA. 145+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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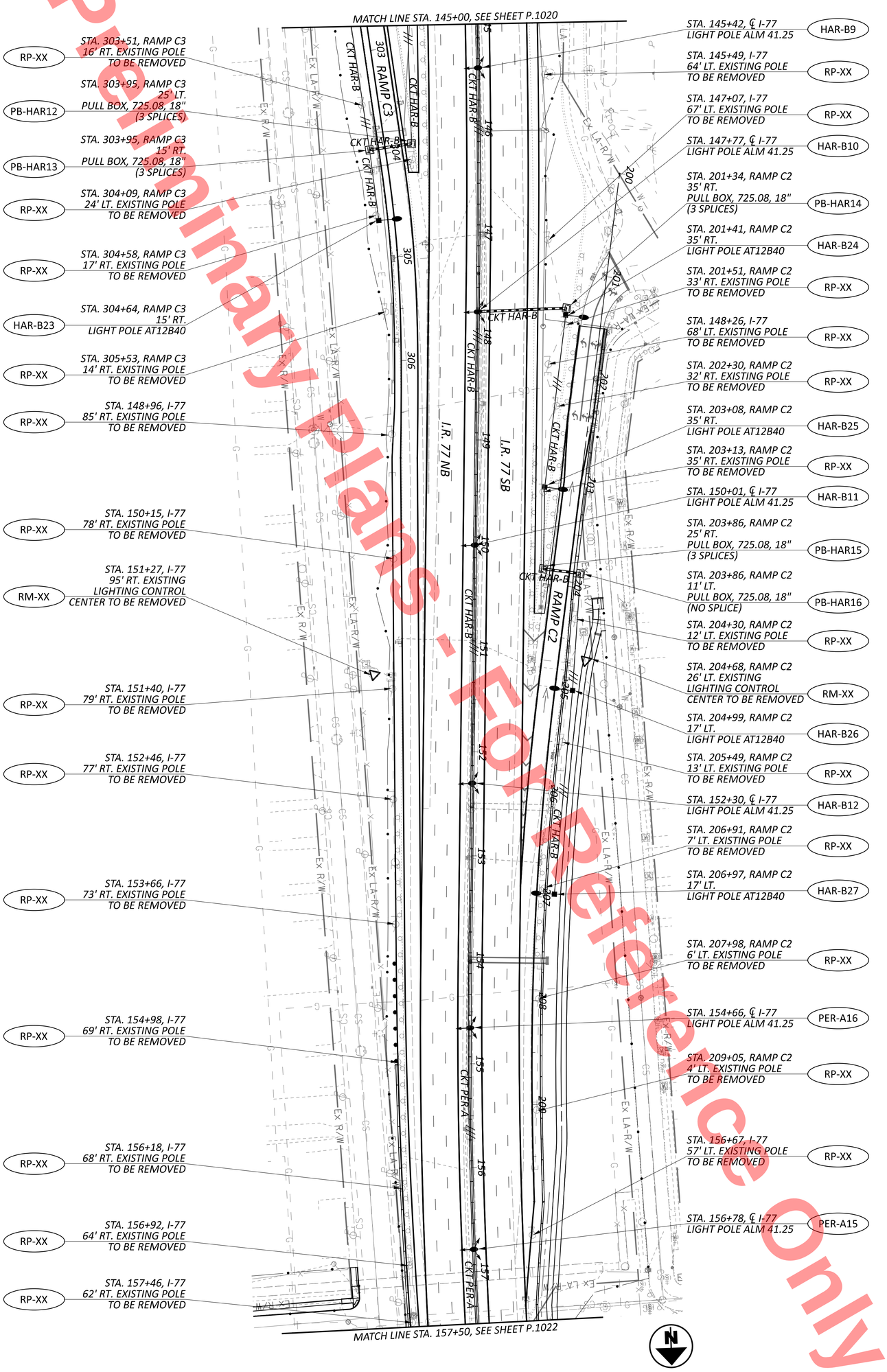
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1021 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

# LIGHTING PLAN
## STA. 145+00 TO STA. 157+50

HORIZONTAL SCALE IN FEET
0 50
25 100

Preliminary Plans - For Reference Only

# LIGHTING PLAN
## STA. 157+50 TO STA. 170+00

HORIZONTAL SCALE IN FEET
0 25 50 100




*FOR LEGEND SEE SHEET P.1015.*
*FOR CIRCUIT DIAGRAM SEE SHEET P.1027.*
*FOR MORGANA RUN TRAIL UNDERPASS LIGHTING DETAILS SEE SHEET P.1028.*

DESIGN AGENCY
AECOM

| | |
|---|---|
| DESIGNER | CX |
| REVIEWER | MAW 11-17-25 |
| PROJECT ID | 105743 |
| SHEET | P.1022 |
| TOTAL | 1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I077 - Plan 9 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:20 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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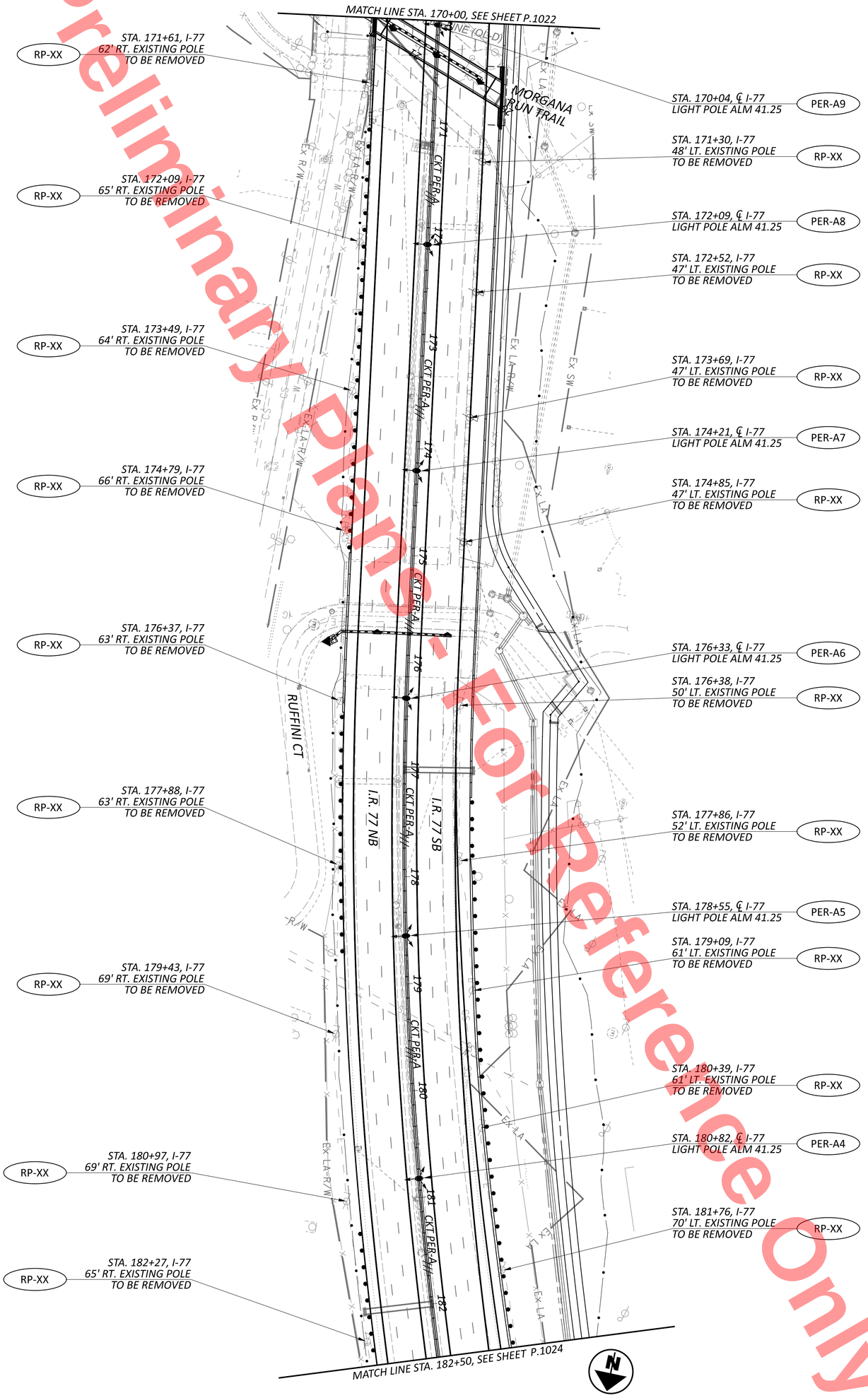
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.
FOR MORGANA RUN TRAIL UNDERPASS LIGHTING DETAILS SEE SHEET P.1028.
FOR RUFFINI CT UNDERPASS LIGHTING DETAILS SEE SHEET P.1029.

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1023 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM DESIGN AGENCY | LIGHTING PLAN<br>STA. 170+00 TO STA. 182+50 |

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 10 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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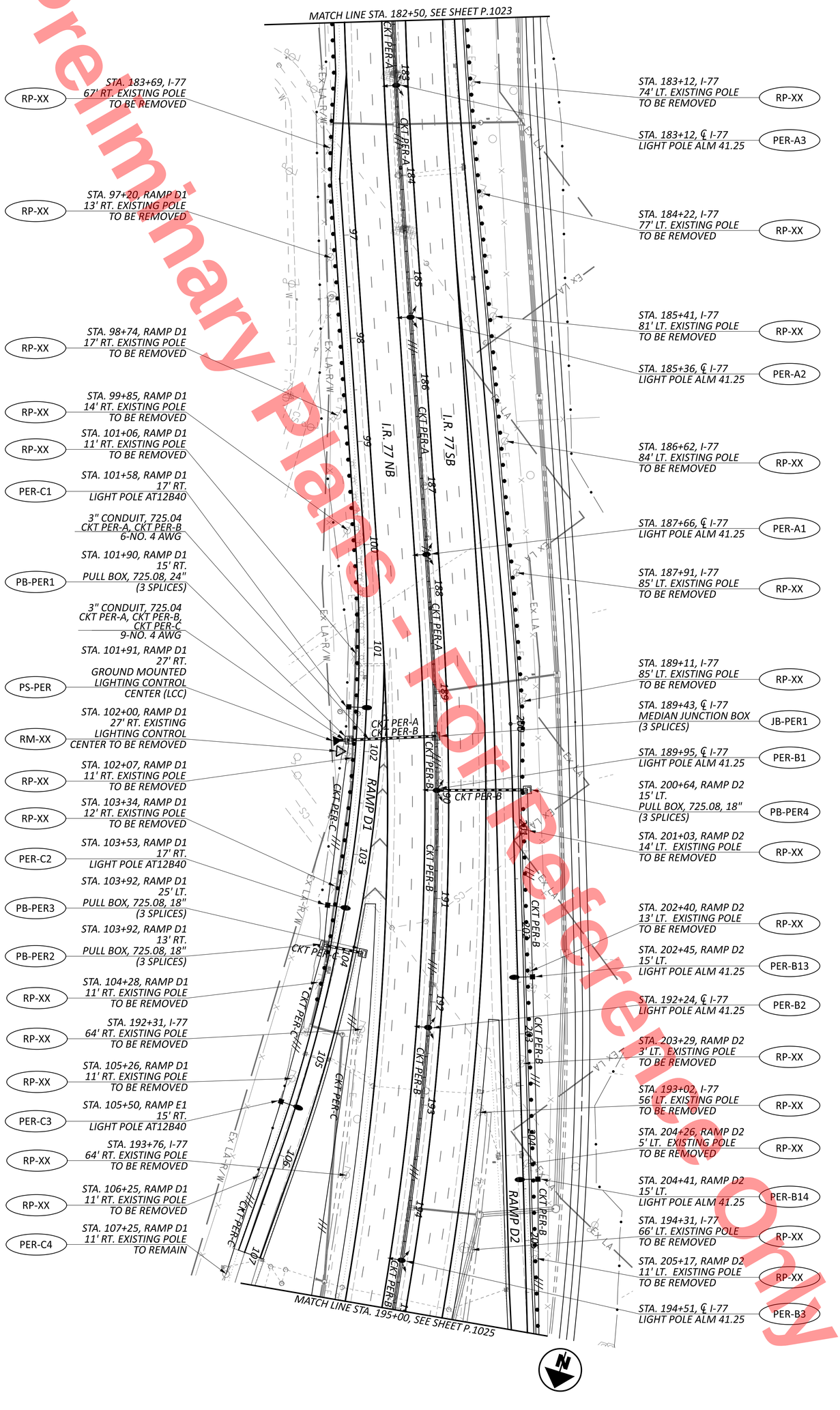
Preliminary Plans - For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| SHEET | TOTAL |
|---|---|
| P.1024 | 1135 |

PROJECT ID 105743

REVIEWER MAW 11-17-25

DESIGNER CX

AECOM

DESIGN AGENCY

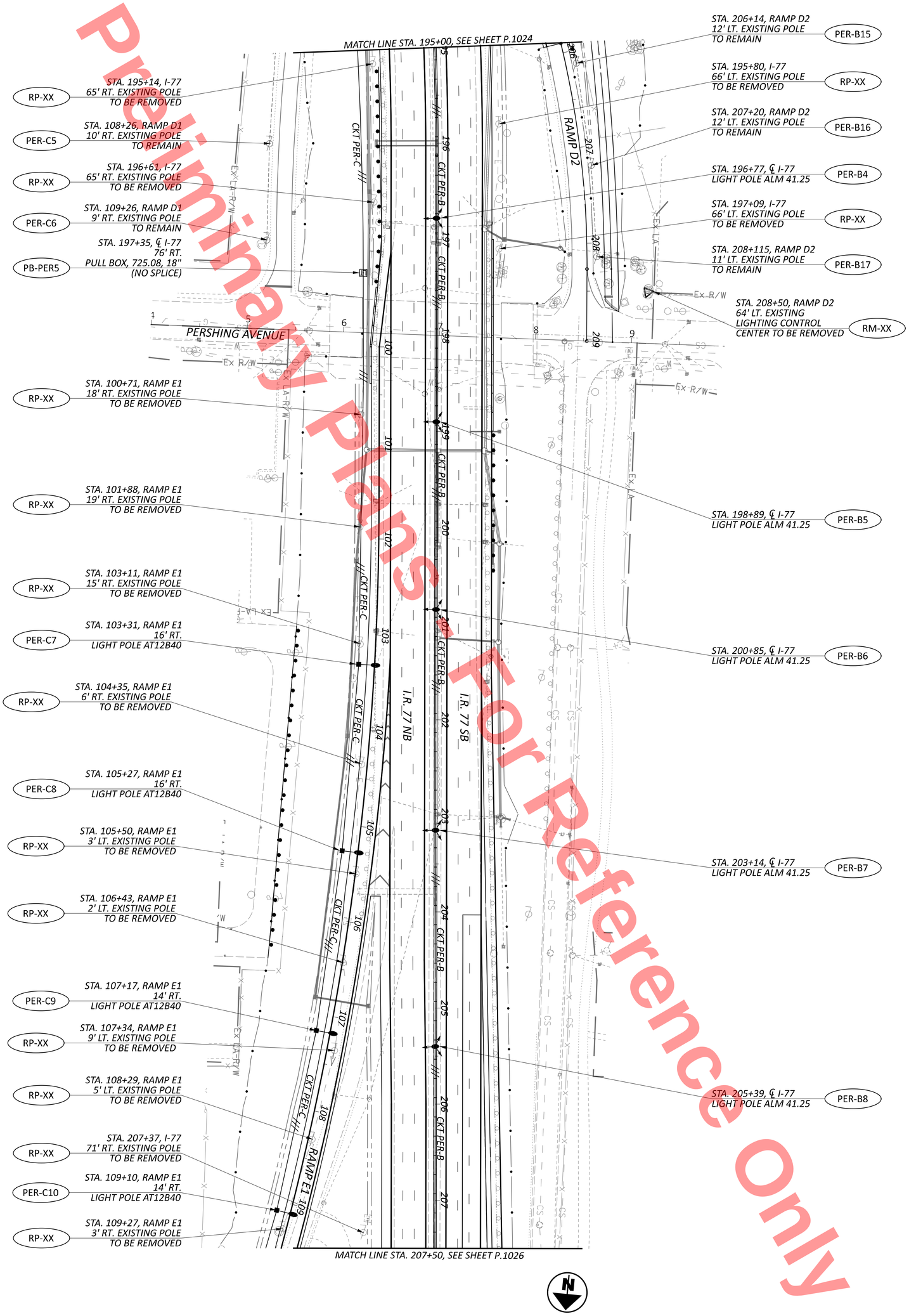
# LIGHTING PLAN
## STA. 182+50 TO STA. 195+00

HORIZONTAL SCALE IN FEET

0 50
25 100

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LP011.dgn

Preliminary Plans For Reference Only




FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| SHEET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1025 | 1135 | 105743 | MAW 11-17-25 | CX | AECOM |

# LIGHTING PLAN
## STA. 195+00 TO STA. 207+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 12 PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:42:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LP012.dgn

Preliminary Plans - For Reference Only

RP-XX — STA. 208+47, I-77, 76' RT. EXISTING POLE TO BE REMOVED

RP-XX — STA. 110+30, RAMP E1, 10' RT. EXISTING POLE TO BE REMOVED

PER-C11 — STA. 111+03, RAMP E1, 18' RT. LIGHT POLE AT12B40

RP-XX — STA. 111+46, RAMP E1, 21' RT. EXISTING POLE TO BE REMOVED

PB-PER6 — STA. 111+80, RAMP E1, 26' RT. PULL BOX, 725.08, 18" (3 SPLICES)

PB-PER7 — STA. 111+80, RAMP E1, 28' LT. PULL BOX, 725.08, 18" (3 SPLICES)

PER-C12 — STA. 112+90, RAMP E1, 28' LT. LIGHT POLE AT12B40

RP-XX — STA. 112+39, RAMP E1, 78' RT. EXISTING POLE TO BE REMOVED

RP-XX — STA. 112+42, RAMP E1, 27' LT. EXISTING POLE TO BE REMOVED

PER-C13 — STA. 112+90, RAMP E1, 28' LT. LIGHT POLE AT12B40

RP-XX — STA. 209+73, I-77, 76' RT. EXISTING POLE TO BE REMOVED

RP-XX — STA. 210+93, I-77, 76' RT. EXISTING POLE TO BE REMOVED

RP-XX — STA. 212+13, I-77, 76' RT. EXISTING POLE TO BE REMOVED

RP-XX — STA. 213+13, ℄ I-77, 75' RT. EXISTING POLE TO BE REMOVED

MATCH LINE STA. 207+50, SEE SHEET P.1025

STA. 207+65, ℄ I-77, LIGHT POLE ALM 41.25 — PER-B9

STA. 209+90, ℄ I-77, LIGHT POLE ALM 41.25 — PER-B10

STA. 212+15, ℄ I-77, LIGHT POLE ALM 41.25 — PER-B11

STA. 213+23, ℄ I-77, 82' LT. EXISTING POLE TO BE REMAIN (DO NOT DISTURB)

STA. 214+35, ℄ I-77, LIGHT POLE ALM 41.25 — PER-B12

STA. 215+09, I-77, 91' LT. EXISTING POLE TO BE REMAIN (DO NOT DISTURB)

RAMP E1

CKT PER-C

CKT PER-B

I.R. 77 NB

I.R. 77 SB

BROADWAY AVENUE

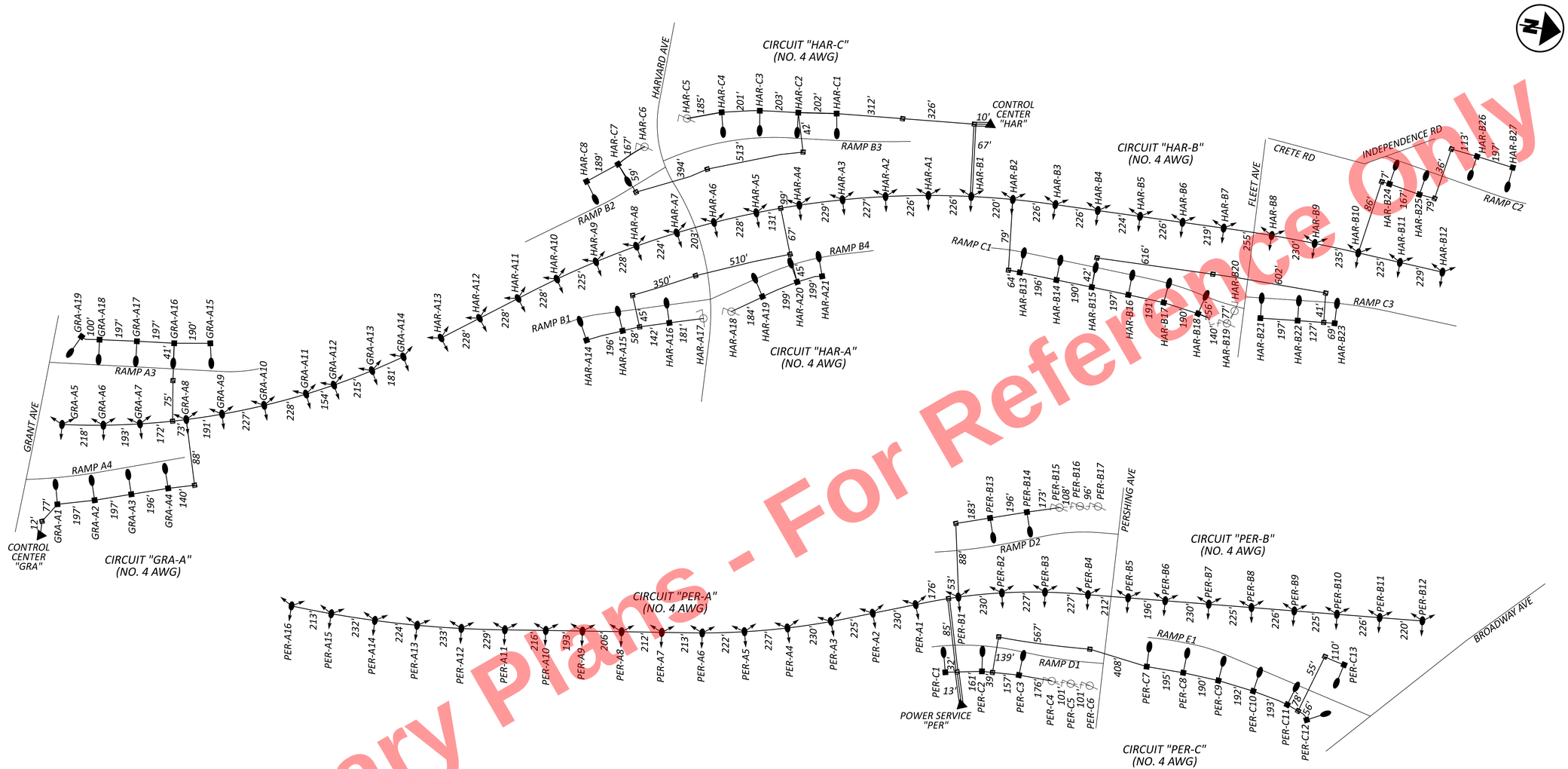
EXIT 14

FOR LEGEND SEE SHEET P.1015.
FOR CIRCUIT DIAGRAM SEE SHEET P.1027.

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1026 TOTAL 1135 | PROJECT ID 105743 | REVIEWER MAW 11-17-25 | DESIGNER CX | AECOM | DESIGN AGENCY |

LIGHTING PLAN
STA. 207+50 TO STA. 220+00

HORIZONTAL SCALE IN FEET
0 50
25 100




Preliminary Plans - For Reference Only

## LEGEND

- LOW MAST LIGHT POLE (41.25' SUPPORT HEIGHT) W/ 1-LED LUMINAIRE, TYPE V (SYMMETRICAL)
- 40' LIGHT POLE WITH LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 480V, WITH GROUND)
- PULL BOX / JUNCTION BOX

POWER SERVICE DATA

| CONTROL CENTER | POWER SERVICE VOLTAGE AND CONFIGURATION | CONTROL CENTER TOTAL CONNECTED LOAD (KVA) | SERVICE ENTRANCE CONDUCTOR SIZE (AWG) | ENCLOSURE RATING (AMPS) | FEEDER CIRCUIT CONNECTED LOAD (AMPS) | FEEDER CIRCUIT FUSE SIZE (AMPS) | BRANCH CIRCUIT NO. | BRANCH CIRCUIT VOLTAGE (VOLTS) (L/L) | BRANCH CIRCUIT LOAD (AMPS) | BRANCH CIRCUIT BREAKER SIZE (AMPS) | BRANCH CIRCUIT CABLE SIZE (AWG) | MAINTAINING AGENCY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PS-GRA | 3-WIRE 2-CONDUCTOR 480V | 5.33 | 2 | 100 | 11.1 | 100 | A | 480 | 11.1 | 30 | 4 | ODOT |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| PS-HAR | 3-WIRE 2-CONDUCTOR 480V | 14.54 | 2 | 100 | 30.3 | 100 | A | 480 | 13.32 | 30 | 4 | ODOT |
| | | | | | | | B | 480 | 14.58 | 30 | 4 | |
| | | | | | | | C | 480 | 2.4 | 15 | 4 | |
| PS-PER | 3-WIRE 2-CONDUCTOR 480V | 13.88 | 2 | 100 | 28.92 | 100 | A | 480 | 13.44 | 30 | 4 | ODOT |
| | | | | | | | B | 480 | 11.58 | 30 | 4 | |
| | | | | | | | C | 480 | 3.9 | 15 | 4 | |

# LIGHTING CIRCUIT DIAGRAM

DESIGN AGENCY: AECOM

DESIGNER: CX

REVIEWER: MAW 11-17-25

PROJECT ID: 105743

SHEET: P.1027 TOTAL: 1135

CUY-77-11.41 - PART 1

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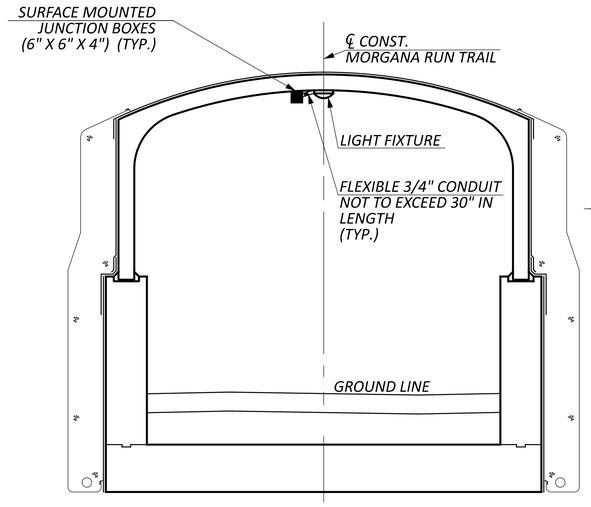
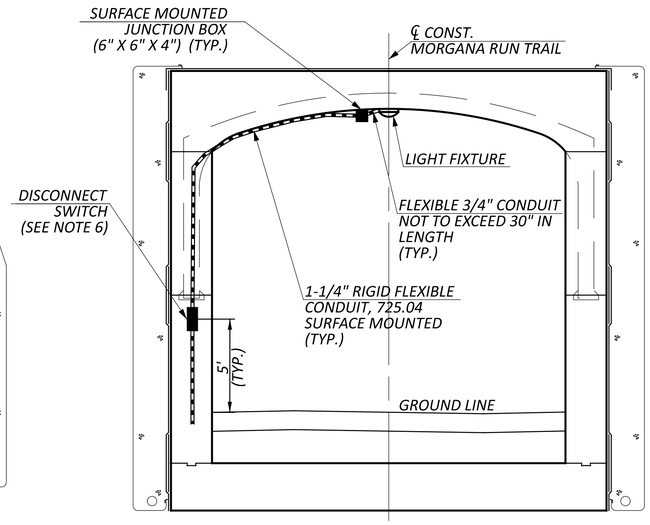
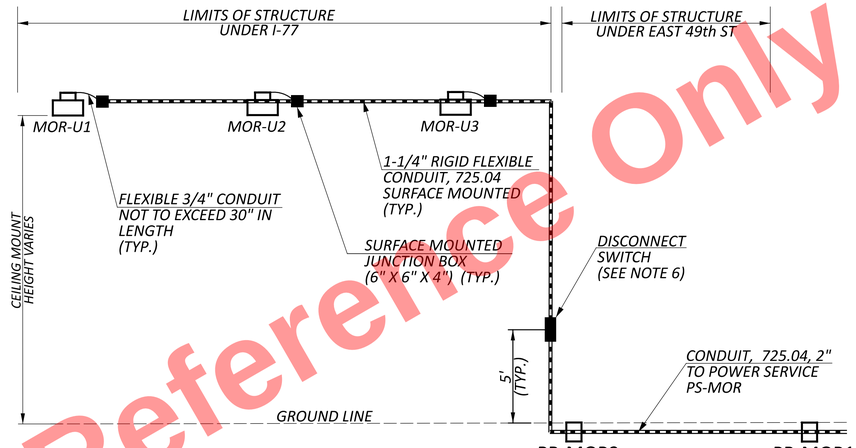


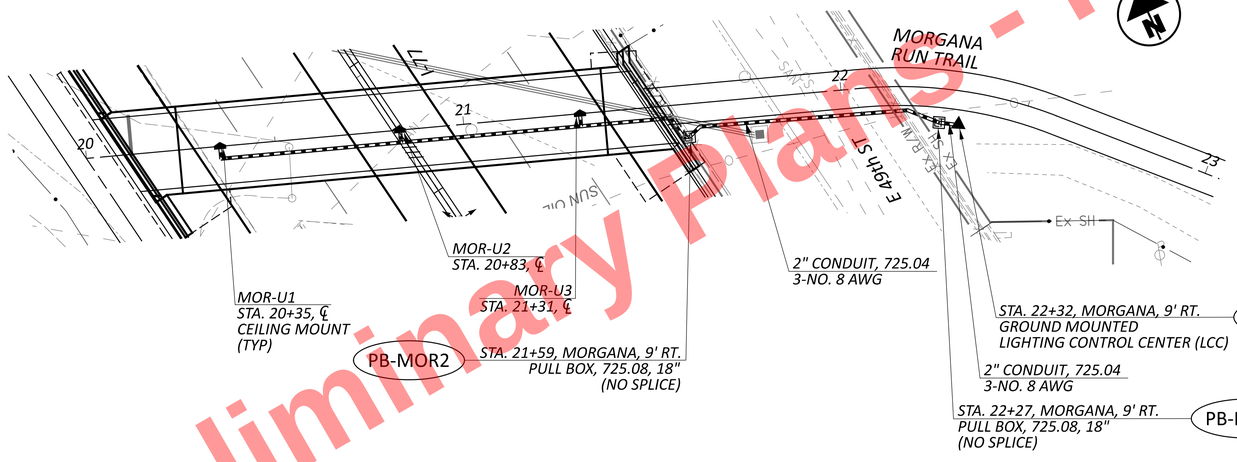

MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
LOOKING WEST
(FOR PRECAST CULVERT)




MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
LOOKING WEST
(FOR CAST-IN-PLACE CULVERT)




MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
(NOT TO SCALE)




NOTES:

1) PROVIDE JUNCTION BOX (6"X6"X4") WITH EACH UNDERPASS LIGHTING FIXTURE.

2) RUN THREE #8 AWG CABLES FROM JUNCTION BOX TO JUNCTION BOX IN 1-1/4" CONDUIT, 725.04.

3) RUN THREE #10 AWG CABLES FROM JUNCTION BOX TO UNDERPASS FIXTURE IN 3/4" FLEXIBLE STEEL CONDUIT, 725.04.

4) BOND LUMINAIRES, JUNCTION BOXES, AND DISCONNECT SWITCH TO STRUCTURE GROUNDING SYSTEM.

5) PROVIDE A VANDAL PROTECTION FOR THE LUMINAIRES.

6) DISCONNECT SWITCH WILL BE INSTALLED ON THE EXTERIOR FACE OF THE CAST-IN-PLACE CULVERT END. MOUNT AT 5' HIGH.

LEGEND

- CEILING WALL MOUNTED UNDERPASS LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 120/240V, WITH GROUND)
- CONDUIT, 725.04 WITH 3 WIRE NO. 8 AWG 600 VOLT CABLES, 2 CONDUCTORS, 120 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED)
- PULL BOX
- SURFACE MOUNTED JUNCTION BOX




CIRCUIT "MOR-U"
(NO. 8 AWG)

POWER SERVICE DATA

| CONTROL CENTER | POWER SERVICE VOLTAGE AND CONFIGURATION | CONTROL CENTER TOTAL CONNECTED LOAD (KVA) | SERVICE ENTRANCE CONDUCTOR SIZE (AWG) | ENCLOSURE RATING (AMPS) | FEEDER CIRCUIT CONNECTED LOAD (AMPS) | FEEDER CIRCUIT FUSE SIZE (AMPS) | BRANCH CIRCUIT NO. | BRANCH CIRCUIT VOLTAGE (VOLTS) (L/N) | BRANCH CIRCUIT LOAD (AMPS) | BRANCH CIRCUIT BREAKER SIZE (AMPS) | BRANCH CIRCUIT CABLE SIZE (AWG) | MAINTAINING AGENCY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PS-MOR | 3-WIRE 2-CONDUCTOR 120V | 0.36 | 2 | 30 | 3.0 | 30 | U | 120 | 3.0 | 15 | 8 | CITY OF CLEVELAND |

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERPASS LIGHTING
MORGANA RUN TRAIL

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER MAW 11-17-25
PROJECT ID 105743
SHEET P.1028 TOTAL 1135

CUY-77-11.41 - PART 1

MODEL: UP [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/19/2025 TIME: 11:43:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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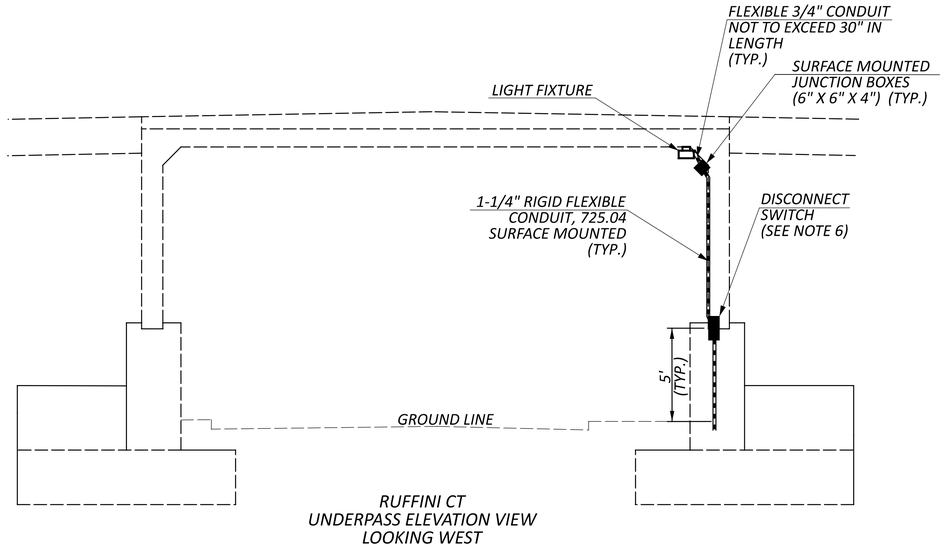
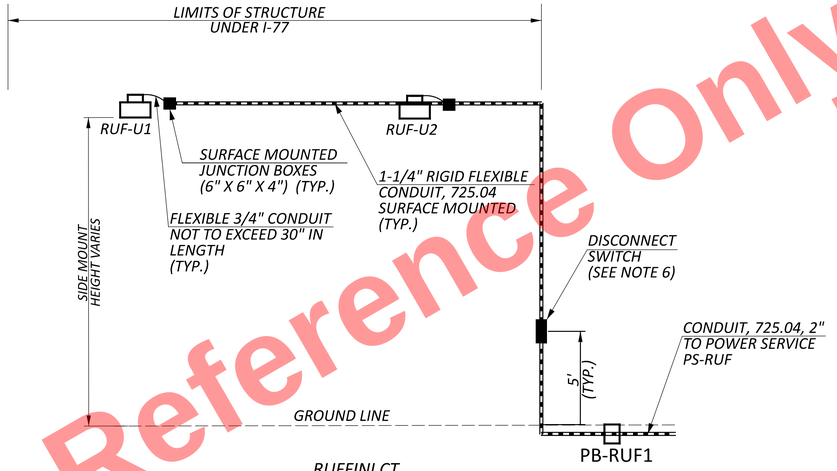
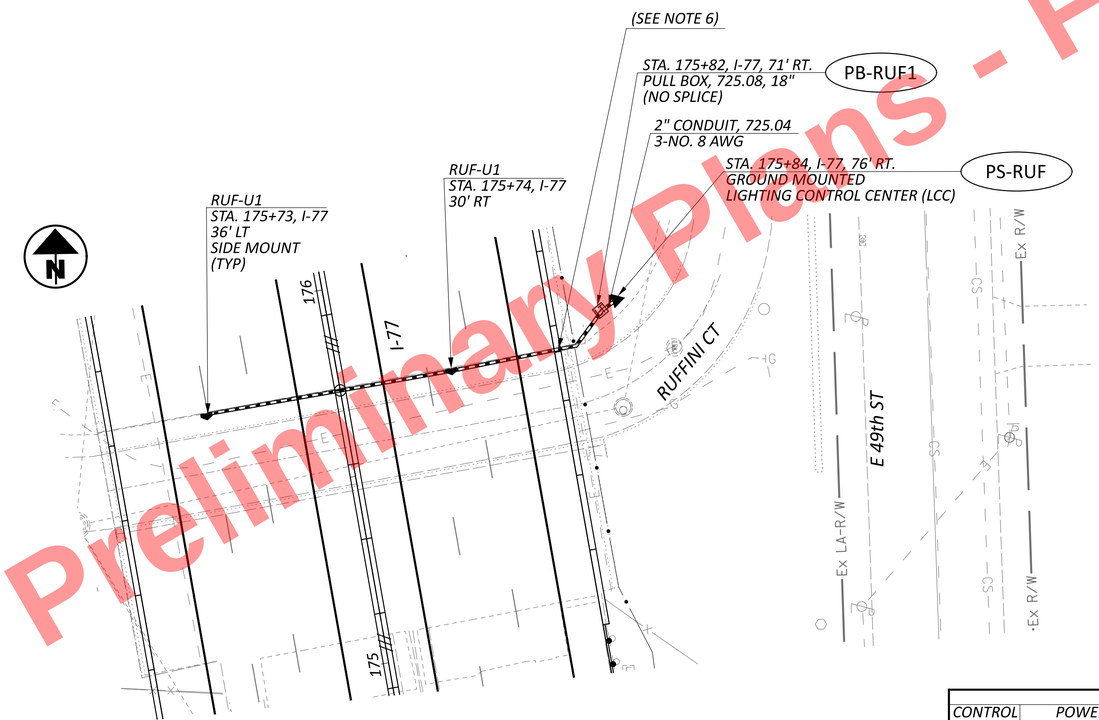
Preliminary Plans - Not For Reference Only

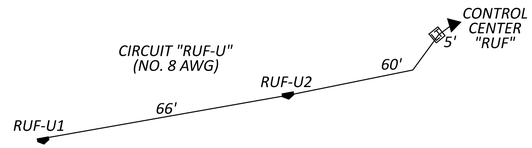



RUFFINI CT
UNDERPASS ELEVATION VIEW
LOOKING WEST




RUFFINI CT
UNDERPASS ELEVATION VIEW
LOOKING NORTH
(NOT TO SCALE)




## LEGEND

- CEILING WALL MOUNTED UNDERPASS LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 120/240V, WITH GROUND)
- CONDUIT, 725.04 WITH 3 WIRE NO. 8 AWG 600 VOLT CABLES, 2 CONDUCTORS, 120 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED)
- PULL BOX
- SURFACE MOUNTED JUNCTION BOX

## NOTES:

1) PROVIDE JUNCTION BOX (6"X6"X4") WITH EACH UNDERPASS LIGHTING FIXTURE.

2) RUN THREE #8 AWG CABLES FROM JUNCTION BOX TO JUNCTION BOX IN 1-1/4" CONDUIT, 725.04.

3) RUN THREE #10 AWG CABLES FROM JUNCTION BOX TO UNDERPASS FIXTURE IN 3/4" FLEXIBLE STEEL CONDUIT, 725.04.

4) BOND LUMINAIRES, JUNCTION BOXES, AND DISCONNECT SWITCH TO STRUCTURE GROUNDING SYSTEM.

5) PROVIDE A VANDAL PROTECTION FOR THE LUMINAIRES.

6) DISCONNECT SWITCH WILL BE INSTALLED ON THE EXTERIOR FACE OF THE NORTHEASTERN ABUTMENT WALL. MOUNT AT 5' HIGH.

POWER SERVICE DATA

| CONTROL CENTER | POWER SERVICE VOLTAGE AND CONFIGURATION | CONTROL CENTER TOTAL CONNECTED LOAD (KVA) | SERVICE ENTRANCE CONDUCTOR SIZE (AWG) | ENCLOSURE RATING (AMPS) | FEEDER CIRCUIT CONNECTED LOAD (AMPS) | FEEDER CIRCUIT FUSE SIZE (AMPS) | BRANCH CIRCUIT NO. | BRANCH CIRCUIT VOLTAGE (VOLTS) (L/N) | BRANCH CIRCUIT LOAD (AMPS) | BRANCH CIRCUIT BREAKER SIZE (AMPS) | BRANCH CIRCUIT CABLE SIZE (AWG) | MAINTAINING AGENCY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PS-RUF | 3-WIRE 2-CONDUCTOR 120V | 0.14 | 2 | 30 | 1.0 | 30 | U | 120 | 1.2 | 15 | 8 | CITY OF CLEVELAND |

HORIZONTAL SCALE IN FEET
0 10 20 40

# UNDERPASS LIGHTING
# RUFFINI CT

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER MAW 11-17-25
PROJECT ID 105743
SHEET P.1029 TOTAL 1135

CUY-77-11.41 - PART 1

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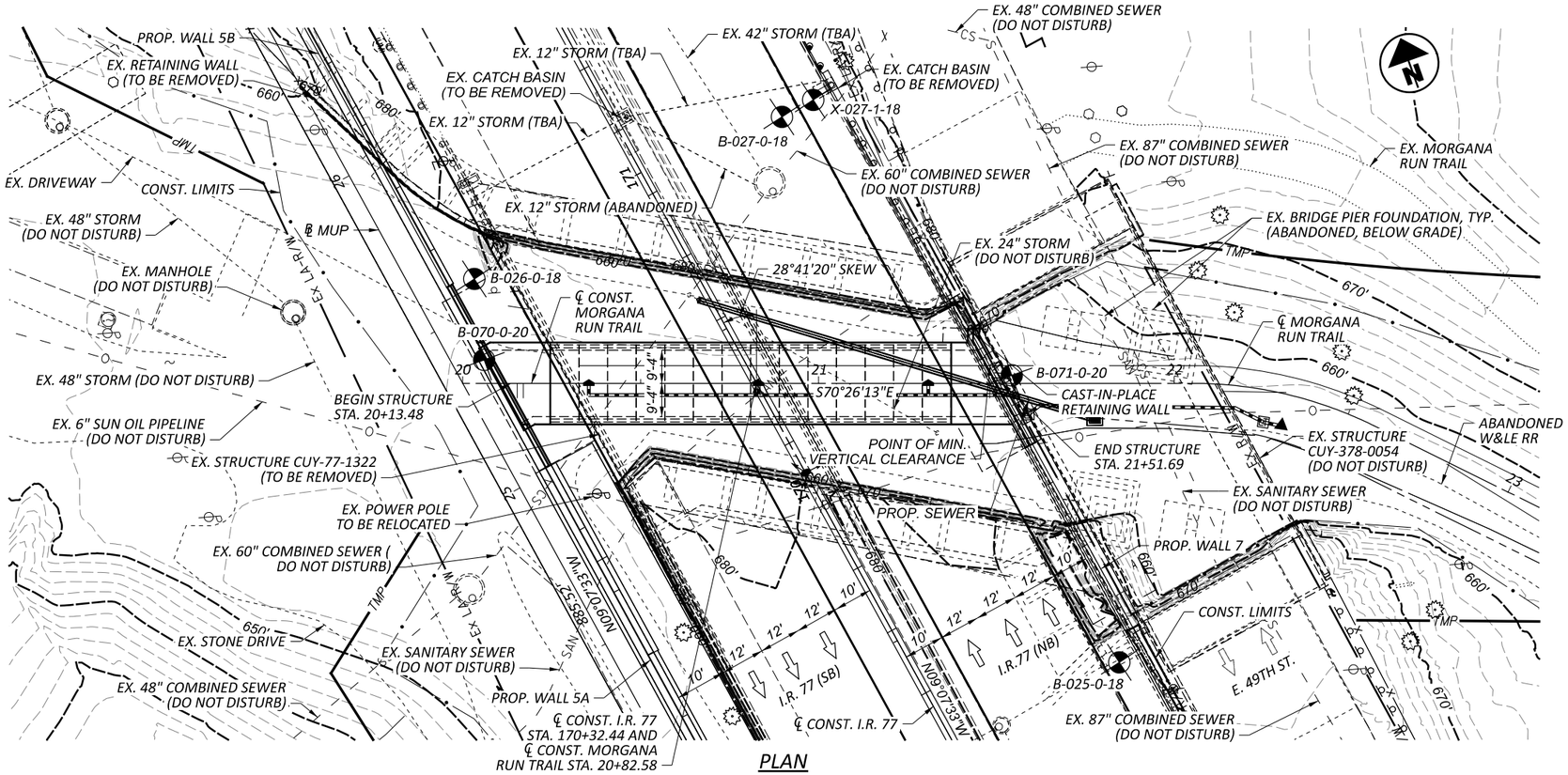
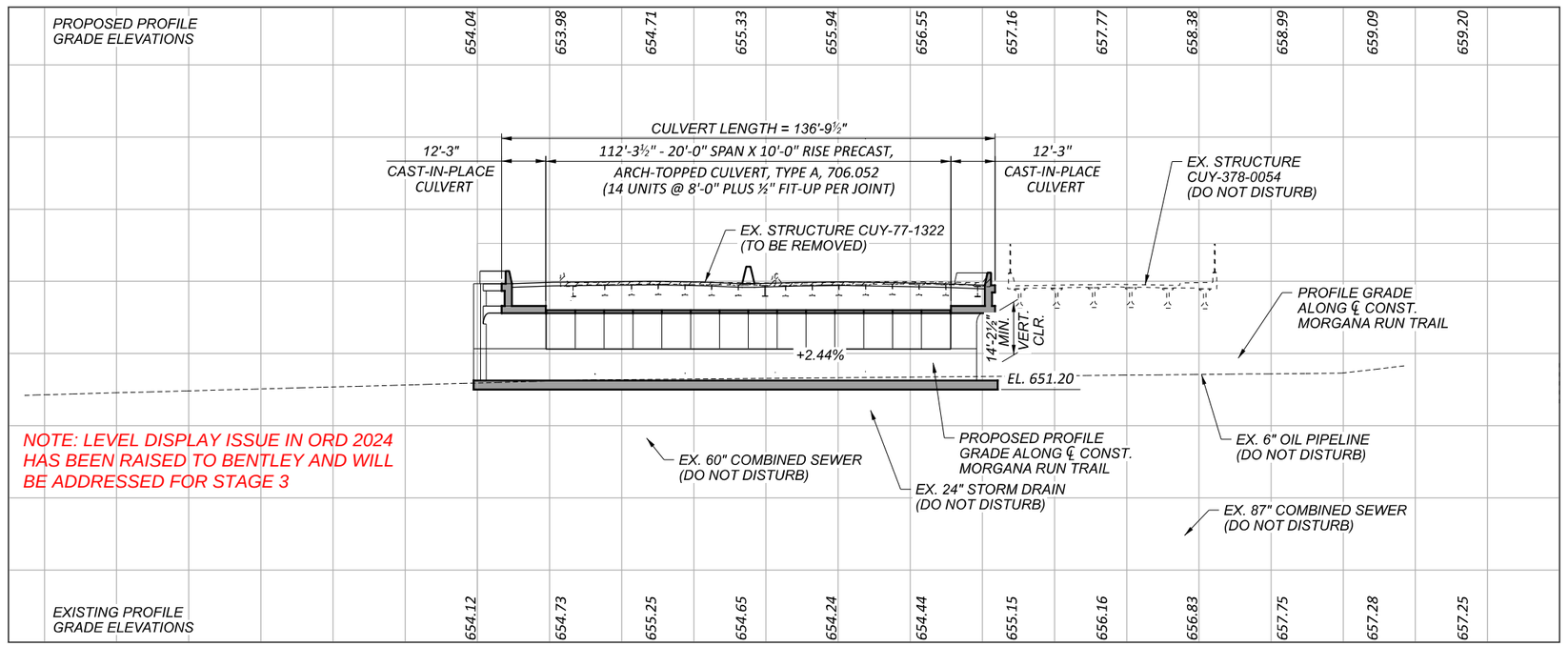
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Lighting\Sheets\105743_LE002.dgn




PLAN




PROFILE ALONG ℄ CONST. MORGANA RUN TRAIL

FOR BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 5 OF 497.

## NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

MINIMUM VERTICAL CLEARANCE
10'-0" REQUIRED
14'-2½" PROVIDED

DESIGN TRAFFIC:
2043 ADT = 126,600 2043 ADTT = 7,560

DIRECTIONAL DISTRIBUTION = 52%

## LEGEND

BORING LOCATION

## EXISTING STRUCTURE

TYPE: SIMPLE SPAN, NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: SINGLE SPAN VARIES, 75'-7¾" +/- WEST FASCIA BEAM, 66'-6" +/- INTERIOR BEAMS, 70'-4⅞" +/- EAST FASCIA BEAM, 34'-0" +/- EAST FASCIA WIDENING BEAM (C/C BRG)

ROADWAY: 49'-0" +/- NB & SB TOE/TOE BARRIER

LOADING: HS20-44 & ALTERNATE MILITARY LOADING

SKEW: 38°-55' +/- LF

WEARING SURFACE: 1" +/- MONOLITHIC CONCRETE

APPROACH SLABS: 15' LONG (AS-1-67)

ALIGNMENT: TANGENT

CROWN: 3/16"/FT +/-

STRUCTURE FILE NUMBER: 1806572

DATE BUILT: 1950, REHABILITATED 1975

DISPOSITION: TO BE REMOVED

## PROPOSED STRUCTURE

TYPE: 3-SIDED ARCH-TOP PRECAST CONCRETE UNITS ON CONCRETE PEDESTALS AND SPREAD MAT FOOTING WITH 3-SIDED CAST-IN-PLACE REINFORCED CONCRETE FRAME END SECTIONS

SPANS: 18'-8" CLEAR SPAN

ROADWAY: 56'-0" NB & SB TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 28°-41'-20" LF

WEARING SURFACE: ASPHALT

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.0156 FT/FT

DECK AREA: NONE

COORDINATES: LATITUDE N41°-27'-48.38"
LONGITUDE W81°-39'-26.92"

# SITE PLAN
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 | TOTAL 24
SHEET P.1030 | TOTAL P.1135

CUY-77-11.41 - PART 1

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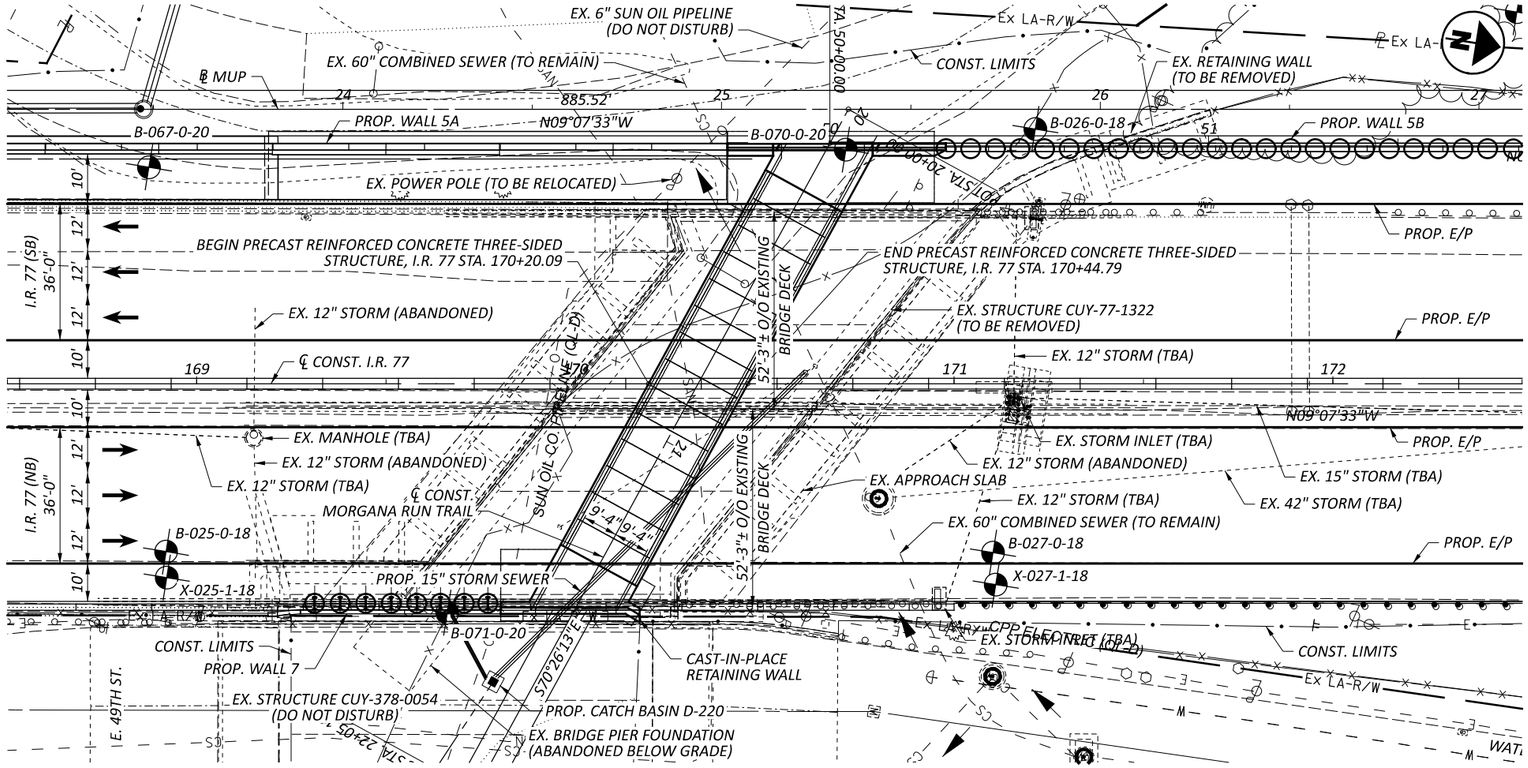
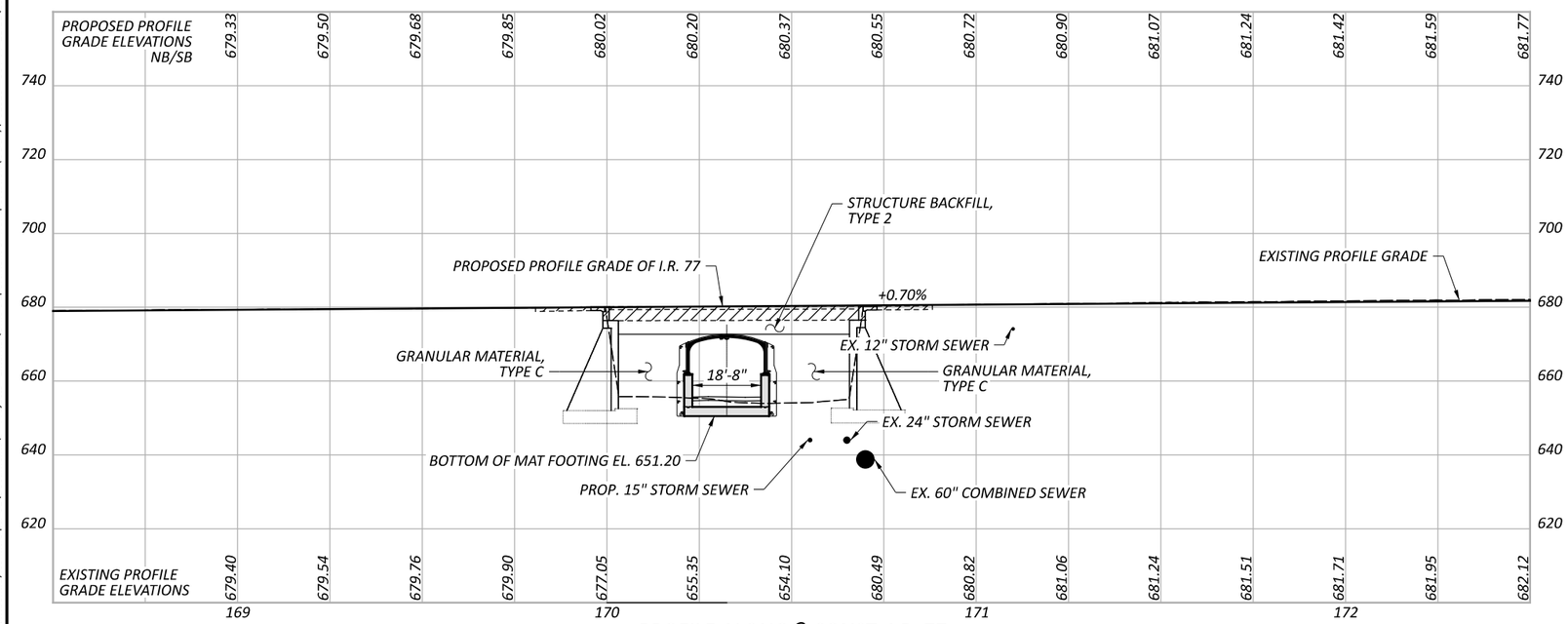



PLAN




PROFILE ALONG ℄ CONST. I.R. 77

FOR BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 5 OF 497.

## NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

MINIMUM VERTICAL CLEARANCE
10'-0" REQUIRED
14'-2" PROVIDED

DESIGN TRAFFIC:
2025 ADT = 118,000 20XX ADTT = 7,080
2043 ADT = 126,600 2043 ADTT = 7,560
DIRECTIONAL DISTRIBUTION = 52%

## LEGEND

BORING LOCATION

## EXISTING STRUCTURE

TYPE: SIMPLE SPAN, NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE.

SPANS: SINGLE SPAN VARIES, 75'-7¾"± WEST FASCIA BEAM, 66'-6"± INTERIOR BEAMS, 70'-47/8"± EAST FASCIA BEAM, 34'-0"± EAST FASCIA WIDENING BEAM (C/C BRG.)

ROADWAY: 49'-0"± NB & SB TOE/TOE BARRIER

LOADING: HS20-44 & ALTERNATIVE MILITARY LOADING

SKEW: 38°-55'-00"± LF

WEARING SURFACE: 1"± MONOLITHIC CONCRETE

APPROACH SLABS: 15' LONG (AS-1-67)

ALIGNMENT: TANGENT

CROWN: 3/16" / FT±

STRUCTURE FILE NUMBER: 1806572

DATE BUILT: 1950, REHABILITATED 1975

DISPOSITION: TO BE REMOVED

## PROPOSED STRUCTURE

TYPE: 3-SIDED ARCH-TOP PRECAST CONCRETE UNITS ON CONCRETE PEDESTALS AND SPREAD MAT FOOTING WITH 3-SIDED CAST-IN-PLACE REINFORCED CONCRETE FRAME END SECTIONS

SPANS: 18'-8" CLEAR SPAN

ROADWAY: 56'-0" NB & SB TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 28°-41'-20" LF

WEARING SURFACE: ASPHALT

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.0156 FT/FT

DECK AREA: NONE

COORDINATES: LATITUDE N41°-27'-48.38"
LONGITUDE W81°-39'-26.92"

# SITE PLAN
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 24
SHEET P.1031 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

SBR-1-20 DATED (REVISED) 7-19-24
VPF-1-90 DATED (REVISED) 7-19-24

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

SS867 DATED 4-15-22
SS878 DATED 1-21-22

## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA

CONCRETE CLASS QC2:
COMPRESSIVE STRENGTH 4.5 KSI (BARRIER)

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (CULVERT, HEADWALLS, WINGWALLS, SUBSTRUCTURE)

EPOZY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN LOADING

VEHICULAR DESIGN LOAD: HL-93
FUTURE WEARING SURFACE (FWS): 0.060 KSF
LIVE LOAD SURCHARGE: 2 FEET OF 125 PCF OVERBURDEN

## FOUNDATION BEARING RESISTANCE

THE FOUNDATION, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 2.18 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.97 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 20.10 KIPS PER SQUARE FOOT.

## EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

## ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

DESCRIPTION: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT IN PORTIONS OF THE STRUCTURE REQUIRED TO SUPPORT TRAFFIC DURING CONSTRUCTIONS PHASES. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING BEGINS, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF CONCRETE REINFORCEMENT IN THE DECK SLAB. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO TO REMAIN IN THE CURRENT CONSTRUCTION PHASE. REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOERAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED IN THE CURRENT CONSTRUCTION PHASE. OUTSIDE THE 18-IN LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER.

THE EXISTING BRIDGE FOR I-77 ADJOINS STRUCTURAL COMPONENTS OF THE EAST 49TH STREET BRIDGE (CUY-378-0054). THE CONTRACTOR SHALL MARK PROPOSED REMOVAL LIMITS ON THE EXISTING STRUCTURE AS DIRECTED BY THE ENGINEEER BEFORE ANY DEMOLITION WORK PROCEEDS WITHIN 3 FEET OF THE ADJACENT BRIDGE CUY-378-0054.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

## ITEM 511 - CLASS QC2 CONCRETE, MISC.: BARRIER ON HEADWALL/WINGWALL WITH QC/QA

THIS ITEM SHALL IINCLUDE REINFORCING STEEL, CONCRETE, FORMWORK, AND ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO CONSTRUCT THE SBR-1-20 BARRIER ON THE HEADWALL AND WINGWALLS AT THE WEST END PORTAL OF THE PROPOSED STRUCTURE.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ITEM 516 - NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN

THE CONTRACTORS SHALL FURNISH AND INSTALL 3 FOOT WIDE NEOPRENE SHEETS ON THE BACK SIDE OF JOINTS AS SPECIFIED IN THE PLANS. INSTALLATION SHALL CONFORM TO DIRECTIONS FOR VERTICAL JOINTS IN CMS 516.05. WHERE PROPOSED RETAINING WALLS ARE CONSTRUCTED ADJACENT TO EXISTING STRUCTURES, APPROVED FASTENERS FOR THE NEOPRENE SHALL ONLY BE PLACED IN CONCRETE OF THE PROPOSED WALLS.

## CONSTRUCTION SEQUENCE

PRE-PHASE:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE.
2. CONSTRUCT SLAB FOOTING, PEDESTAL WALLS, PRECAST CULVERT UNITS, AND CAST-IN-PLACE END PORTALS.
3. CONSTRUCT EAST WINGWALLS UP TO THE TOP OF END PORTAL.
4. CONSTRUCT WEST HEADWALL AND WINGWALLS.

PHASE 1A, 1B AND 1C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE WESTERN PORTION OF EXISTING SOUTHBOUND STRUCTURE AS SHOWN.
3. INSTALL COMPACTED BACKFILL AND TEMPORARY WIRE WALL 1 ABOVE CULVERT STRUCTURE.
4. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

PHASE 2:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE CENTER PORTION OF EXISTING STRUCTURES AS SHOWN.
3. INSTALL COMPACTED BACKFILL AND TEMPORARY WIRE WALL 2 ABOVE CULVERT STRUCTURE.
4. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

PHASE 3A, 3B AND 3C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE EASTERN PORTION OF EXISTING STRUCTURES AS SHOWN.
3. CONSTRUCT REMAINING PORTIONS OF EAST WINGWALLS AND HEADWALL.
4. INSTALL COMPACTED BACKFILL ABOVE CULVERT STRUCTURE.
5. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

# GENERAL NOTES
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 24
SHEET P.1032 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## ESTIMATED QUANTITIES (CUY-77-1322)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 202 | 11203 | LS | | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN | 3 |
| 202 | 22900 | | SY | APPROACH SLAB REMOVED | |
| | | | | | |
| 203 | 35120 | | CY | GRANULAR MATERIAL, TYPE C | |
| | | | | | |
| 503 | 11100 | LS | | COFFERDAMS AND EXCAVATION BRACING | |
| 503 | 21300 | LS | | UNCLASSIFIED EXCAVATION | |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| | | | | | |
| 511 | 46013 | | CY | CLASS QC1 CONCRETE WITH QC/QA, AS PER PLAN, RETAINING/WINGWALL NOT INCLUDING FOOTING | 20, 23 |
| 511 | 46512 | | CY | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | |
| 511 | 46612 | | CY | CLASS QC1 CONCRETE WITH QC/QA, HEADWALL | |
| 511 | 47012 | | CY | CLASS QC1 CONCRETE WITH QC/QA, CULVERT | |
| 511 | 53012 | | CY | CLASS QC2 CONCRETE, MISC.: BARRIER ON HEADWALL/WINGWALL, WITH QC/QA | 3 |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 3 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13900 | | SF | 2" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 25001 | | SF | NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN | 3 |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| | | | | | |
| 607 | 39900 | | FT | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC | |
| | | | | | |
| 611 | 71000 | | FT | CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN x 10'-0" RISE) | |
| | | | | | |
| 867 | 00100 | LS | | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL | |
| | | | | | |

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CUY-77-11.41 - PART 1

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

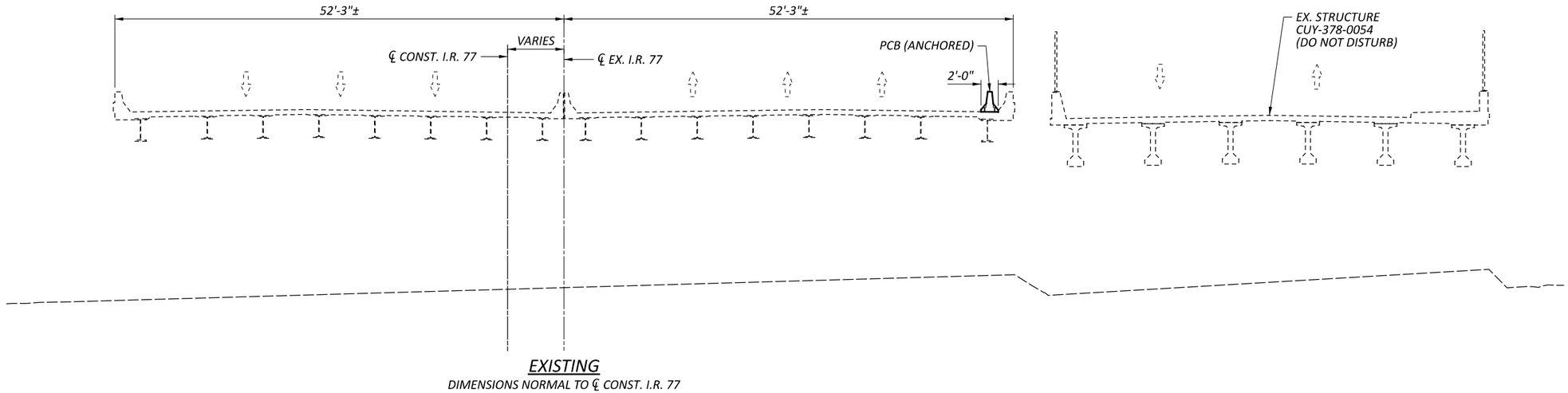
| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

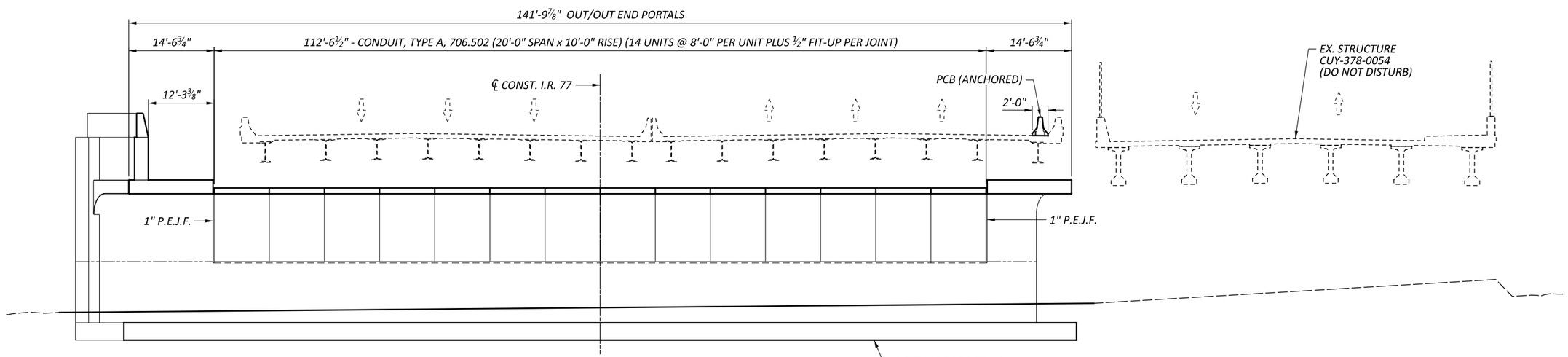
| SUBSET | TOTAL |
|---|---|
| 4 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1033 | P.1135 |




**EXISTING**

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*




**PRE-PHASE - CONSTRUCTION**

*DIMENSIONS MEASURED ALONG ℄ CONST. MUP EAST*

# PHASED CONSTRUCTION DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 5 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1034 | P.1135 |

CUY-77-11.41 - PART 1

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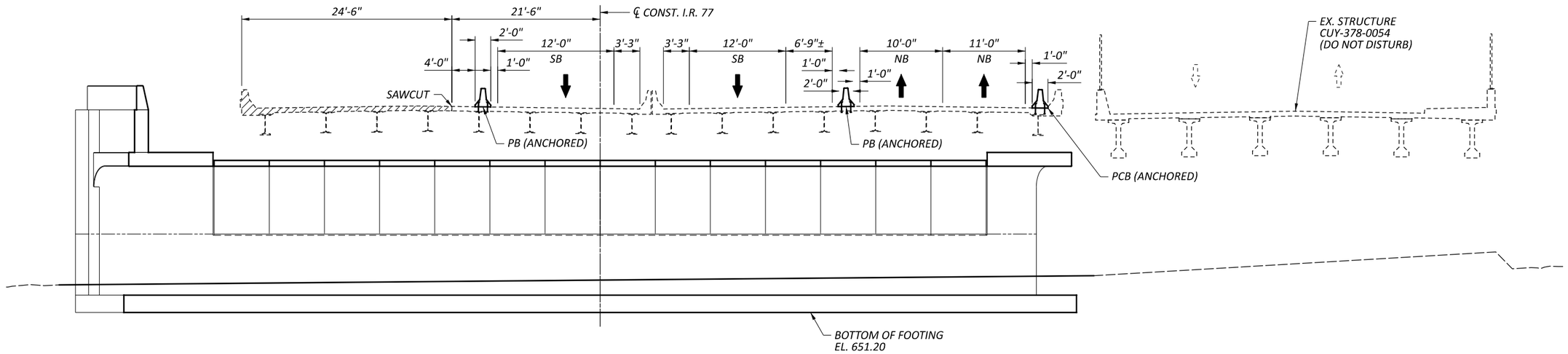
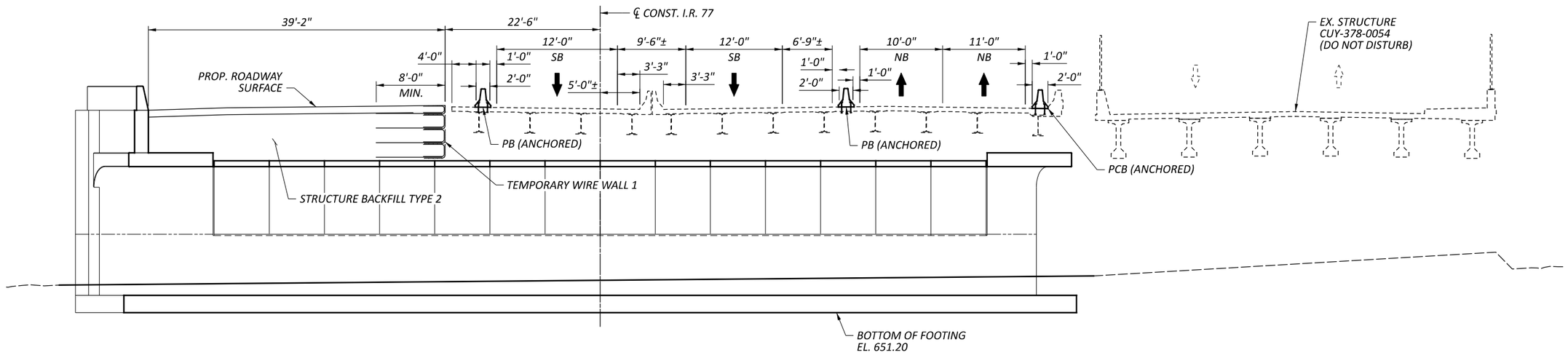
JPyles@trcsolutions.com




PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77




PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

## NOTES:

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.
2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).

LEGEND

REMOVAL LIMITS

# PHASED CONSTRUCTION DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 6 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1035 | P.1135 |

CUY-77-11.41 - PART 1

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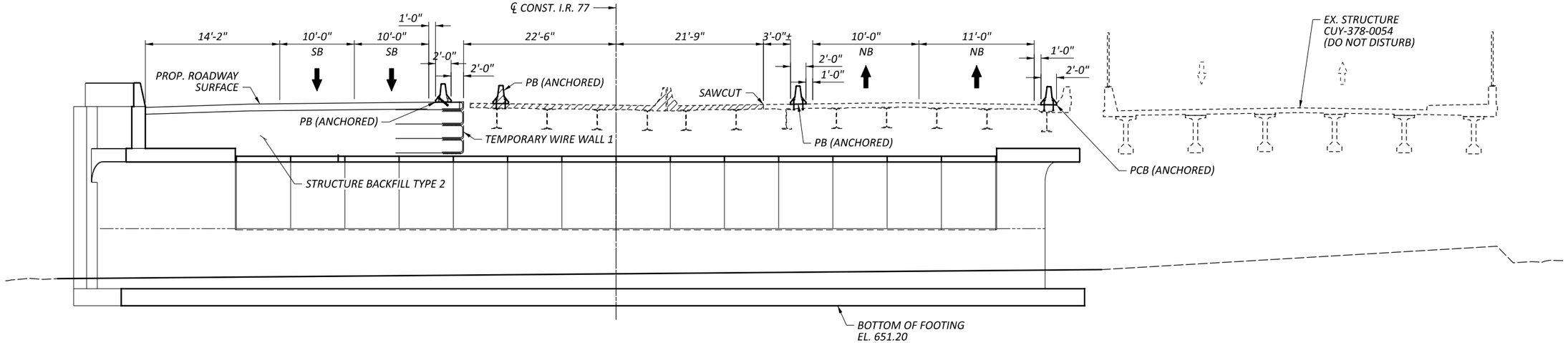


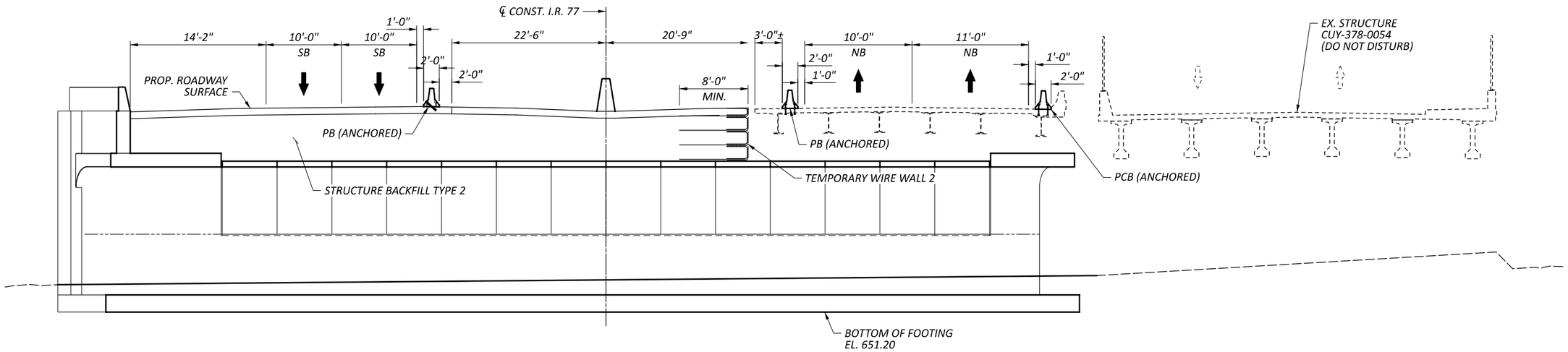

## PHASE 2

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*

**NOTES:**

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.

2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).




## PHASE 2

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*

**LEGEND**

REMOVAL LIMITS

# PHASED CONSTRUCTION DETAILS
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 7 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1036 | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:23:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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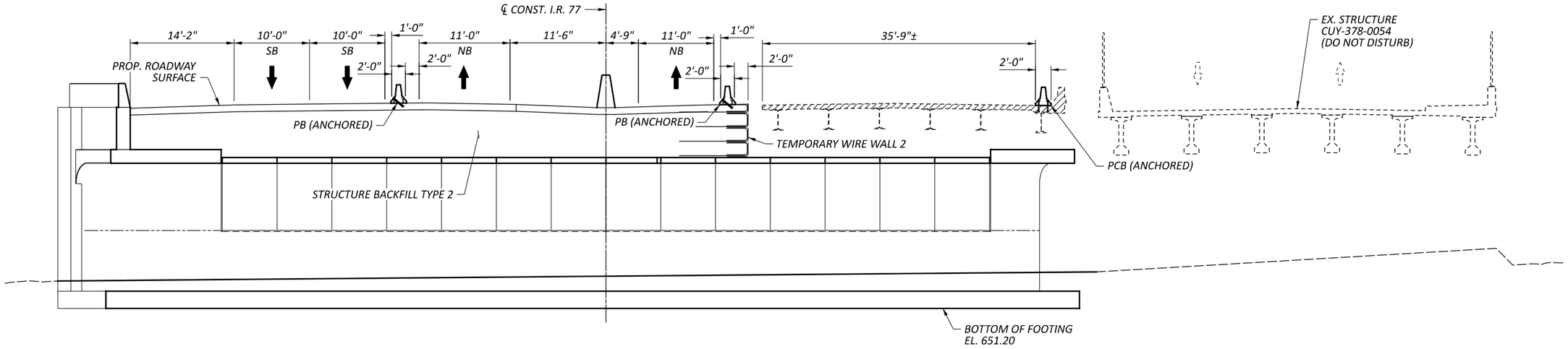


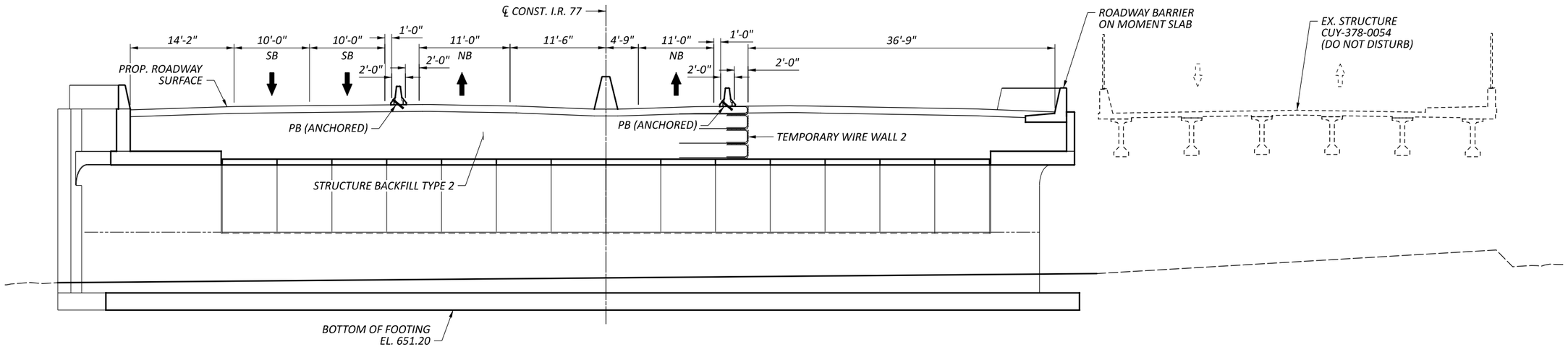

PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

NOTES:

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.

2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).




PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

LEGEND

REMOVAL LIMITS

# PHASED CONSTRUCTION DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 8 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1037 | P.1135 |

CUY-77-11.41 - PART 1

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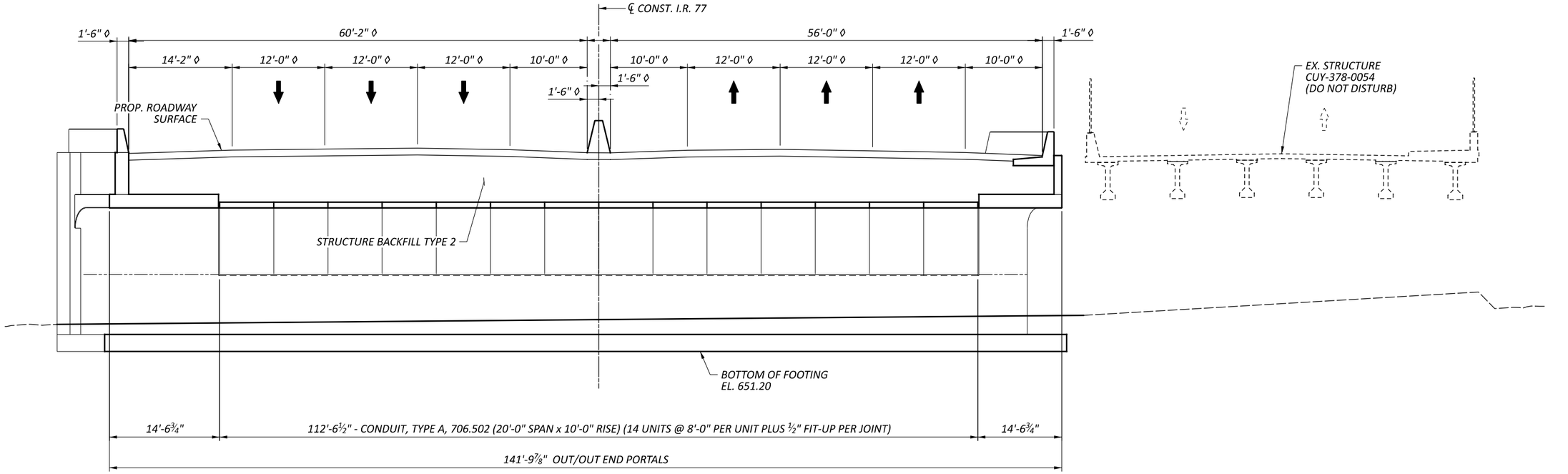
CUY-77-11.41 - PART 1




**FINAL**

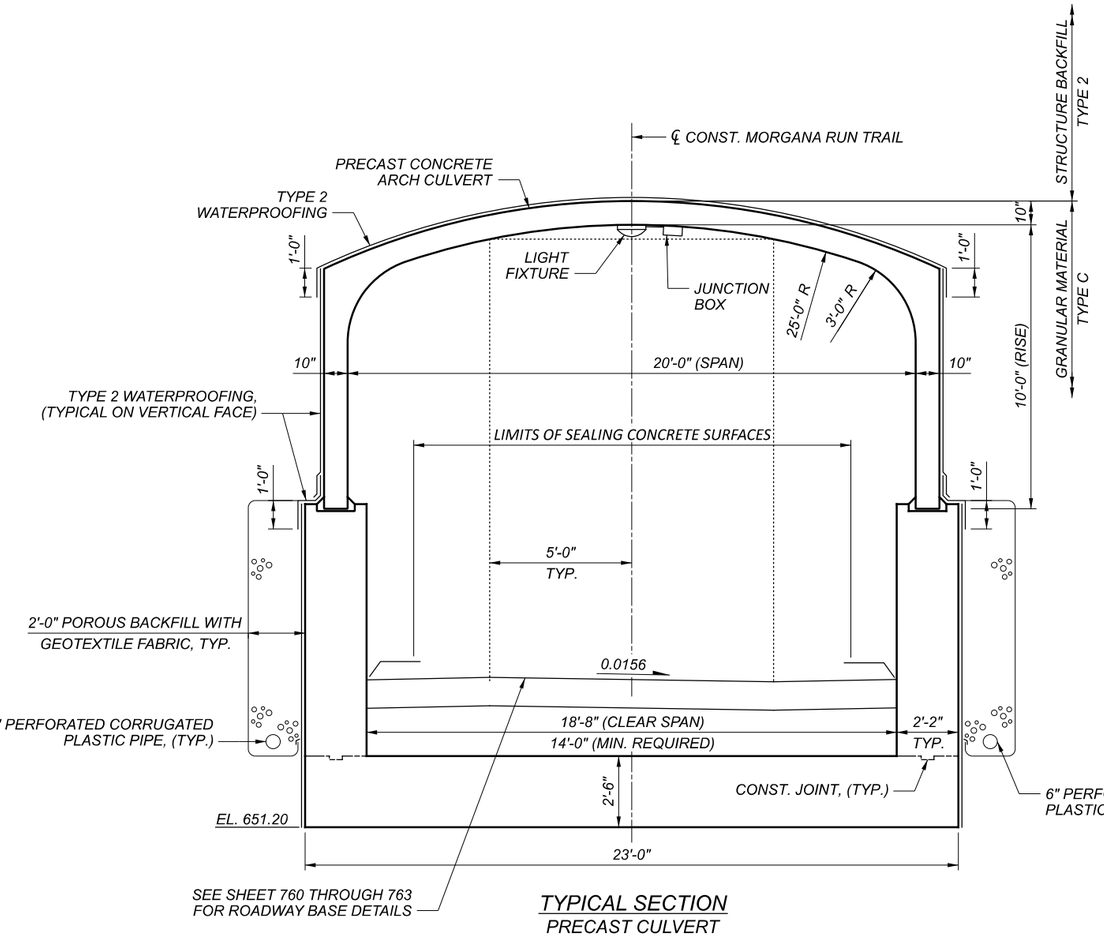
*DIMENSIONS MEASURED ALONG ℄ CONST. MORGANA RUN TRAIL, UNLESS NOTED OTHERWISE*

LEGEND

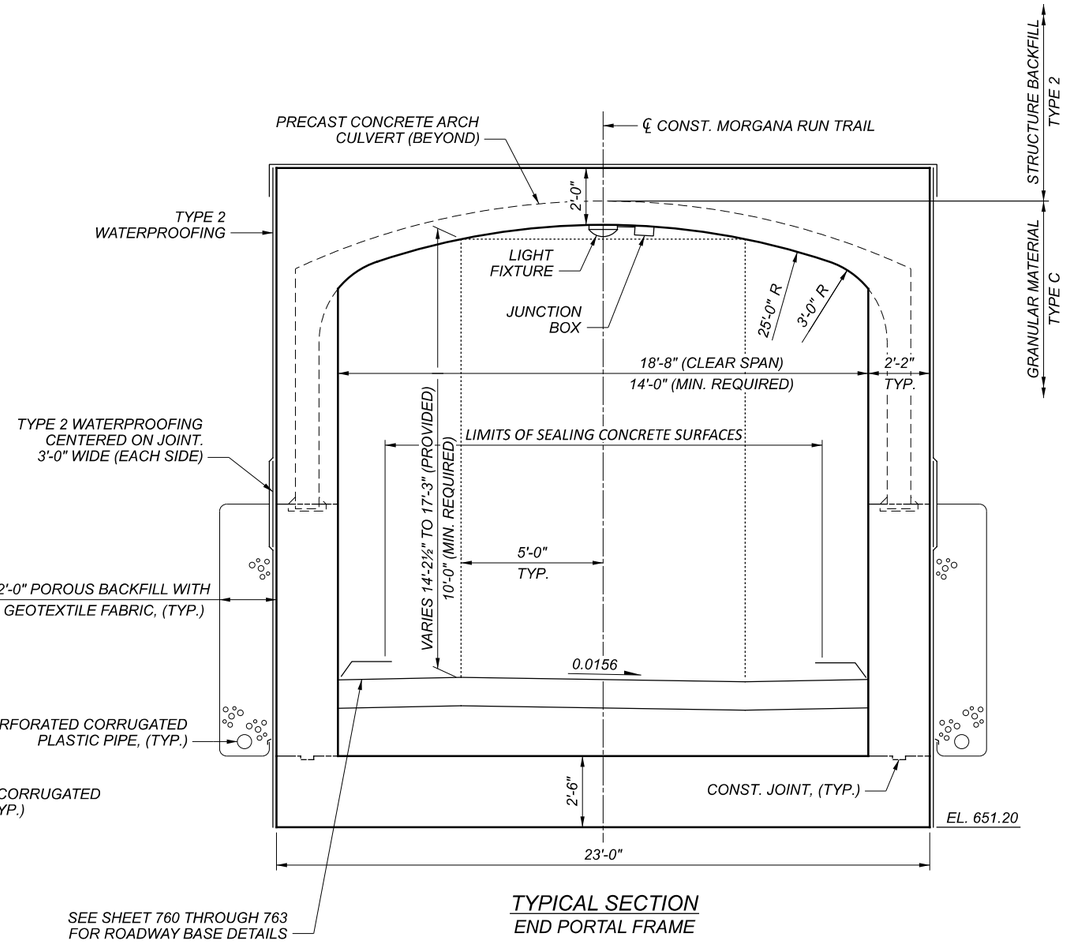
REMOVAL LIMITS

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 9 |
| TOTAL | 24 |
| SHEET | P.1038 |
| TOTAL | P.1135 |




**TYPICAL SECTION**
*PRECAST CULVERT*




**TYPICAL SECTION**
*END PORTAL FRAME*

**NOTE:**

1. *SEE LIGHTING PLANS FOR DETAILS OF LIGHT FIXTURES, WIRING AND CONDUIT FACILITIES.*

# TRANSVERSE SECTION
## BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1


MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:23:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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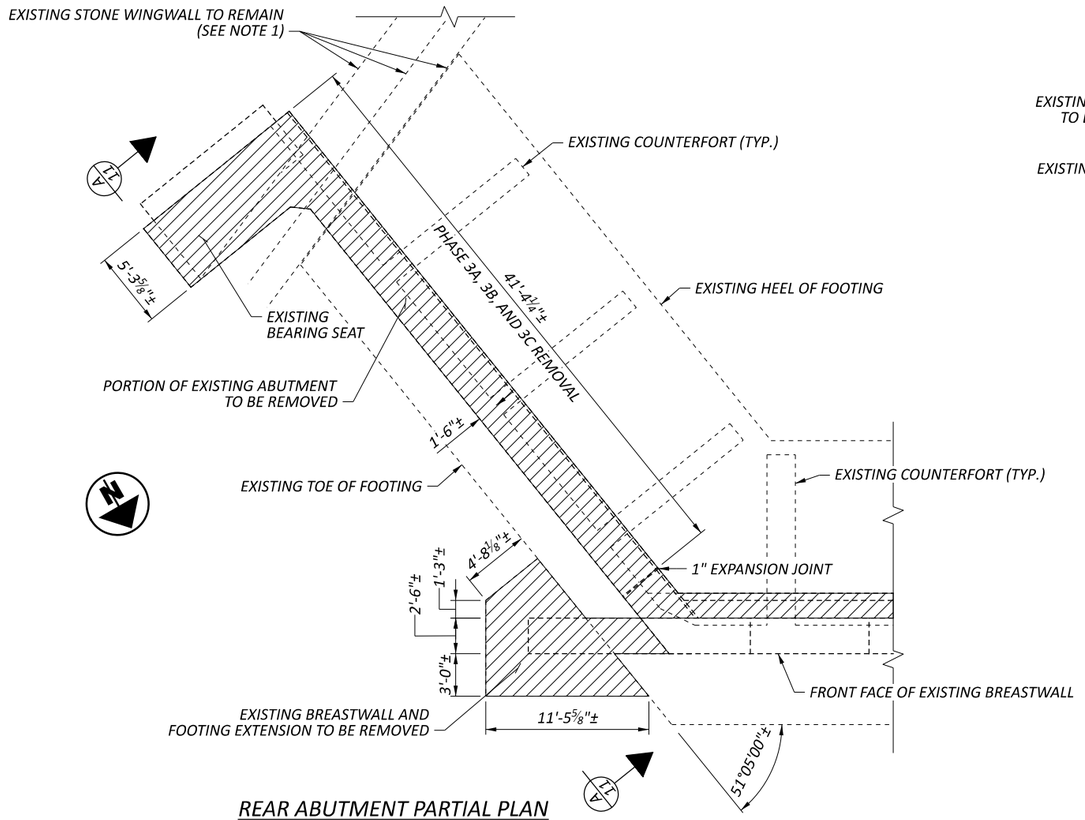
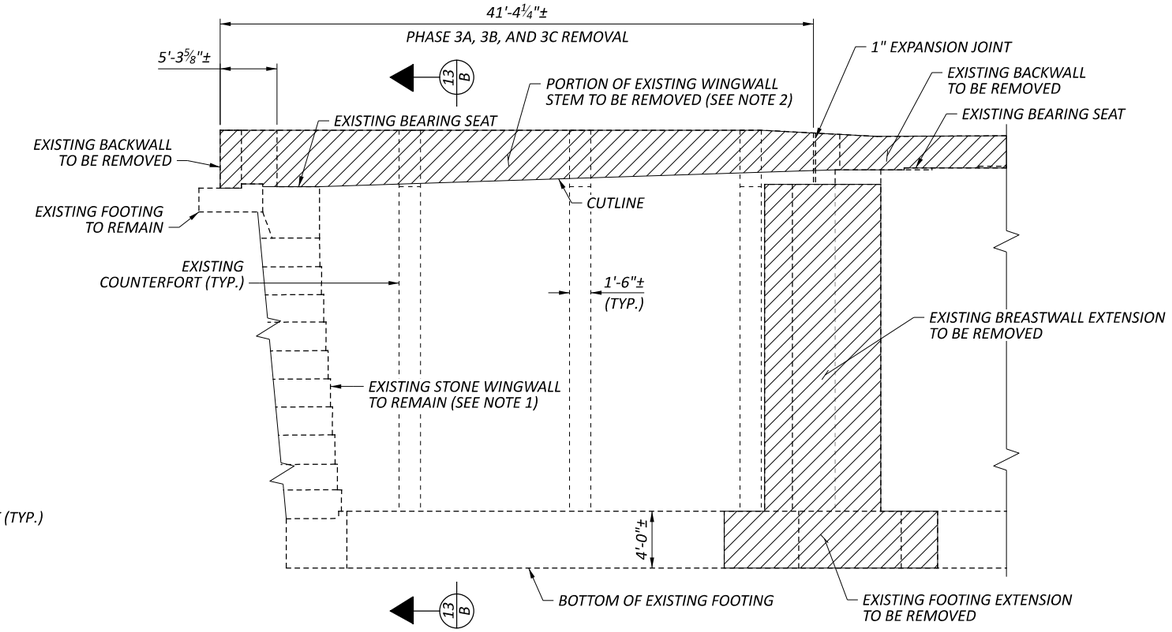
| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 10 |
| TOTAL | 24 |
| SHEET | P.1039 |
| TOTAL | P.1135 |




REAR ABUTMENT PARTIAL PLAN



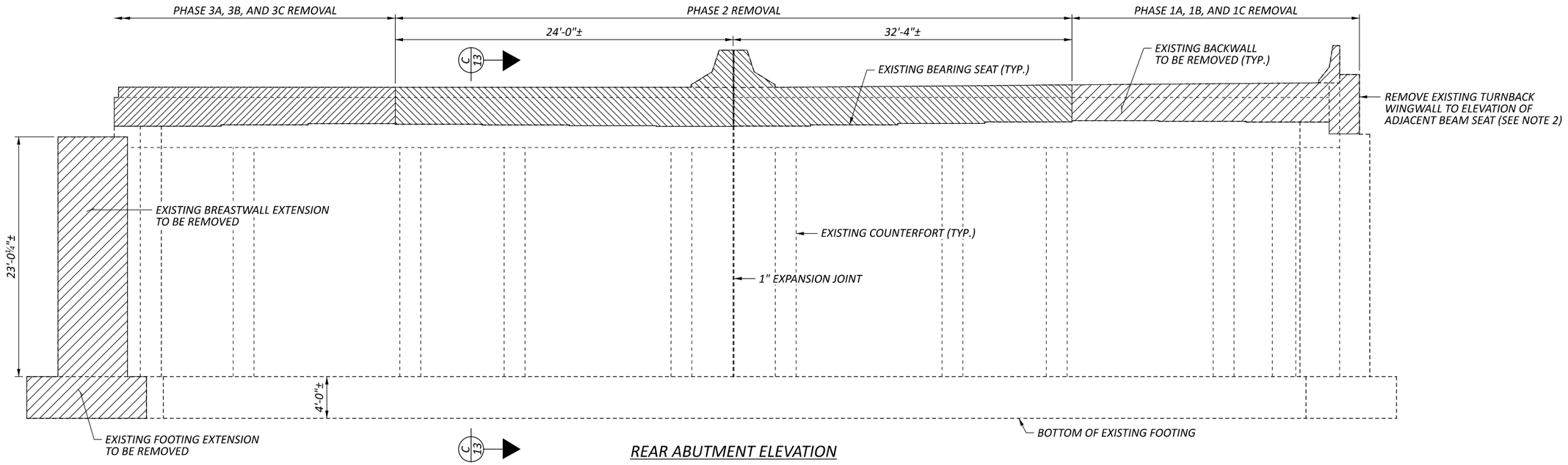

VIEW A-A

## NOTES:

1. THE EXISTING WINGWALL AND BACKWALL OF BRIDGE CUY-77-1322 ADJOIN THE REAR ABUTMENT OF THE EAST 49TH STREET (CR 378) BRIDGE. DURING CUTTING AND STRUCTURE REMOVAL OPERATIONS, CARE SHALL BE EXERCISED TO PROTECT FROM DAMAGE THE EXISTING STONE BLOCK WINGWALL AND ADJACENT BRIDGE ABUTMENT.

2. REMOVAL CUTS SHALL NOT BE PERFORMED ON THE EXISTING WINGWALL STEM AND COUNTERFORTS UNTIL BACKFILL HAS BEEN PLACED AND COMPACTED BETWEEN THE EXISTING SUBSTRUCTURE AND THE PROPOSED RETAINING WALL IN FRONT OF IT UP TO AN ELEVATION WITHIN 2 FEET OF THE CUT LINE.

3. FOR SECTION B-B, SEE SHEET 13/24.




REAR ABUTMENT ELEVATION

# ABUTMENT REMOVAL DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 11 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1040 | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Structure Removal PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:23:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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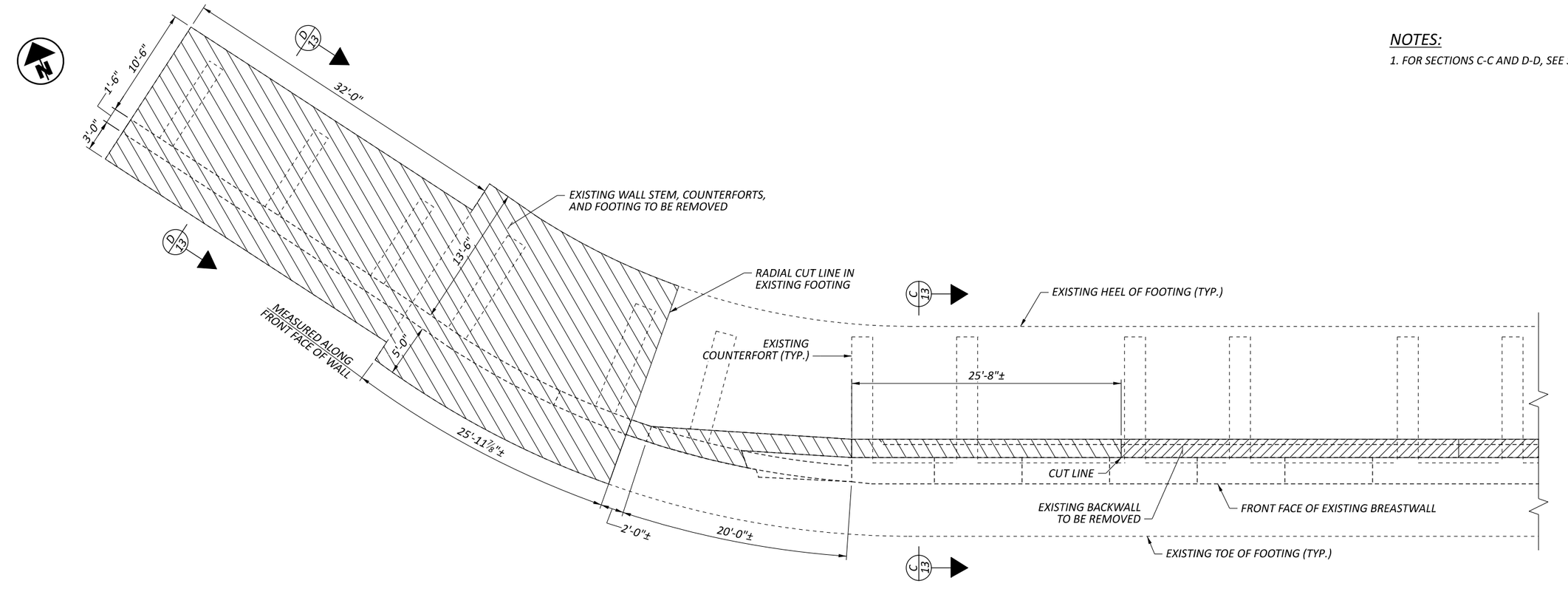
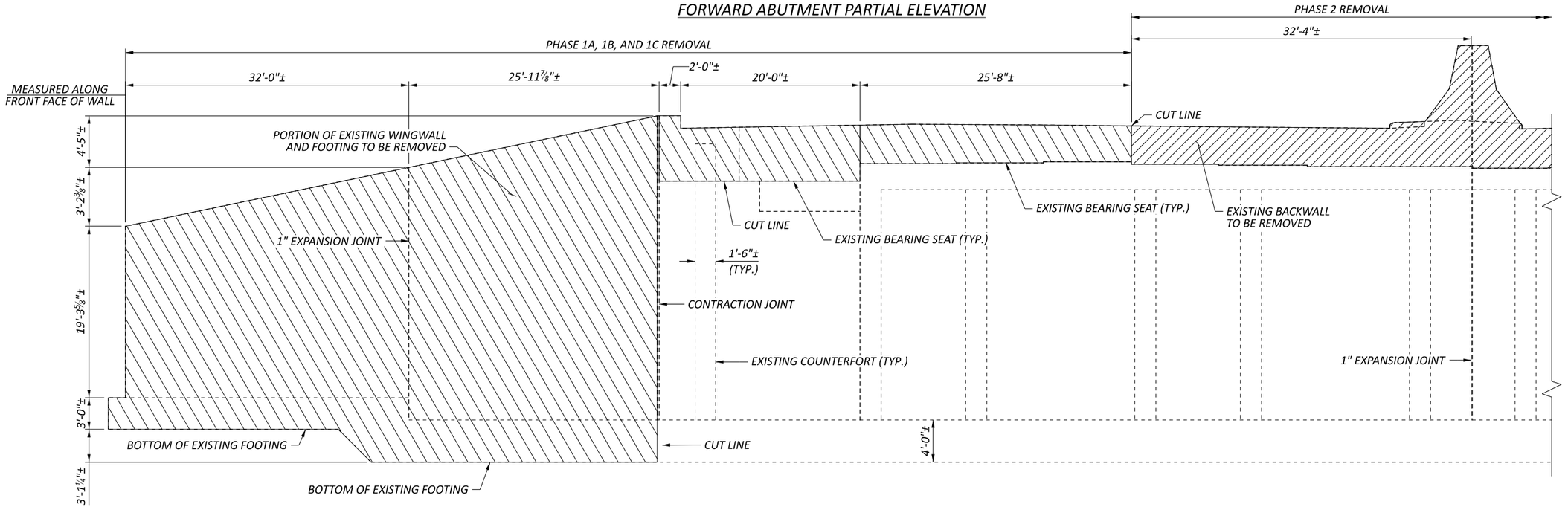
CUY-77-11.41 - PART 1

*NOTES:*

*1. FOR SECTIONS C-C AND D-D, SEE SHEET 13/24.*



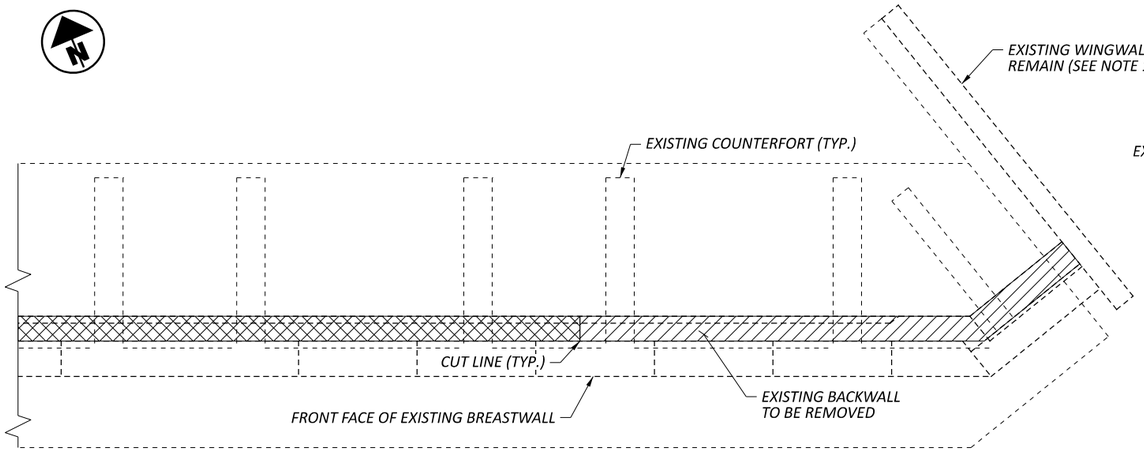

*FORWARD ABUTMENT PARTIAL ELEVATION*



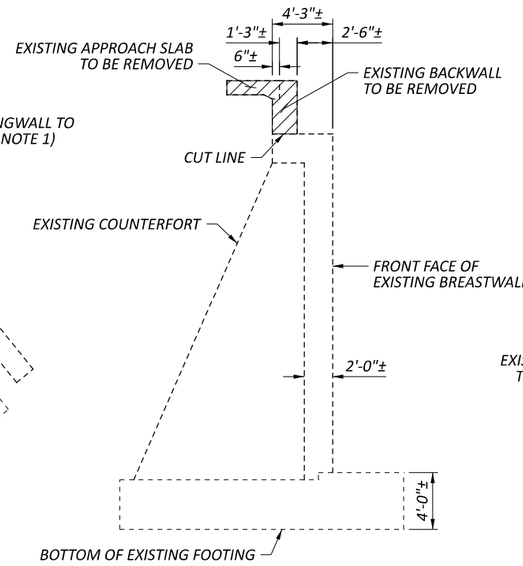

*FORWARD ABUTMENT PARTIAL ELEVATION*

ABUTMENT REMOVAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

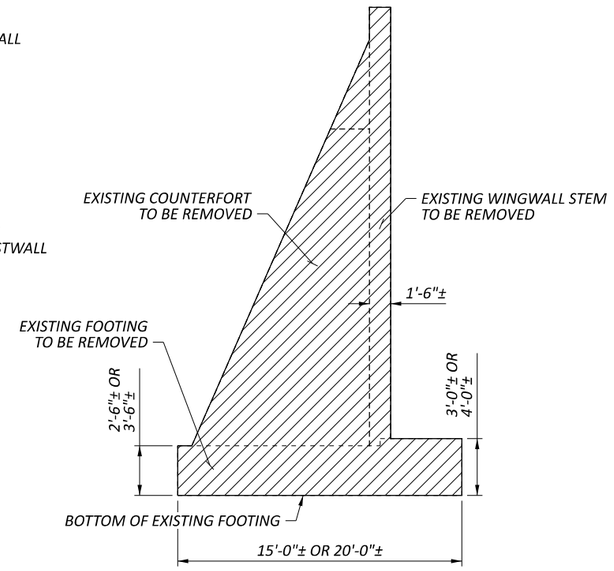
| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 12 |
| TOTAL | 24 |
| SHEET | P.1041 |
| TOTAL | P.1135 |




FORWARD ABUTMENT PARTIAL PLAN




SECTION C-C

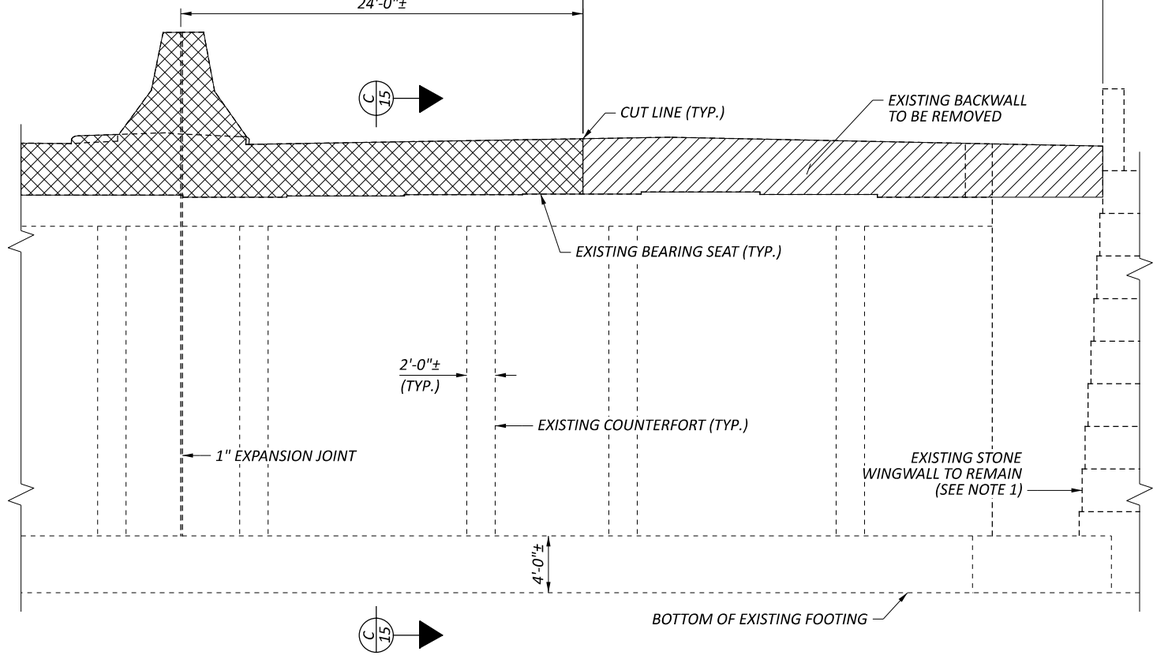



SECTION D-D

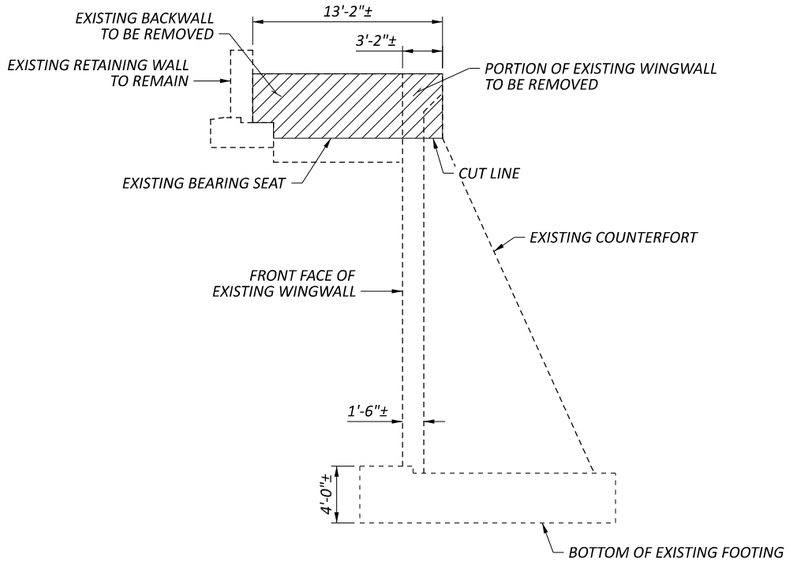
## NOTES:

1. THE EXISTING BACKWALL OF BRIDGE CUY-77-1322 ADJOINS THE FORWARD ABUTMENT OF THE EAST 49TH STREET (CR378) BRIDGE. DURING CUTTING AND STRUCTURE REMOVAL OPERATIONS, CARE SHALL BE EXERCISED TO PROTECT FROM DAMAGE THE ADJACENT BRIDGE ABUTMENT AND WINGWALL. AS SUCH, PRIOR TO ANY REMOVAL WORK TO TAKE PLACE WITHIN 3 FEET OF CUYAHOGA COUNTY'S BRIDGE, REMOVAL LIMITS SHALL BE MARKED AS DIRECTED BY THE ENGINEER.

2. FOR ADDITIONAL REMOVAL DETAILS AND NOTES, SEE SHEET 11/24.




FORWARD ABUTMENT PARTIAL ELEVATION




SECTION B-B

# ABUTMENT REMOVAL DETAILS
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 13 |
| TOTAL | 24 |
| SHEET | P.1042 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Structure Removal – 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:23:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoads Designer 24.00.00.205
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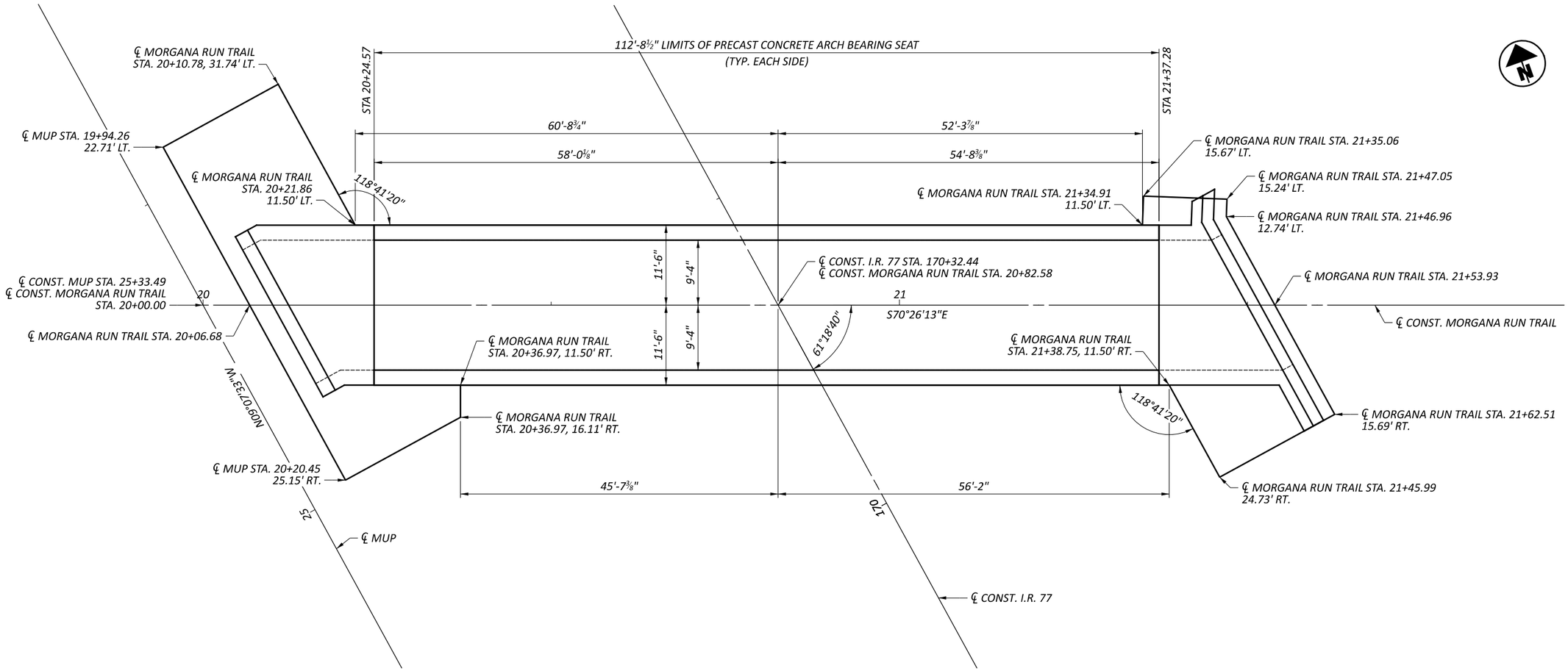


*FOUNDATION PLAN AND GEOMETRY SCHEMATIC*

*(END PORTALS AND WINGWALLS NOT SHOWN)*

FOUNDATION PLAN
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:23:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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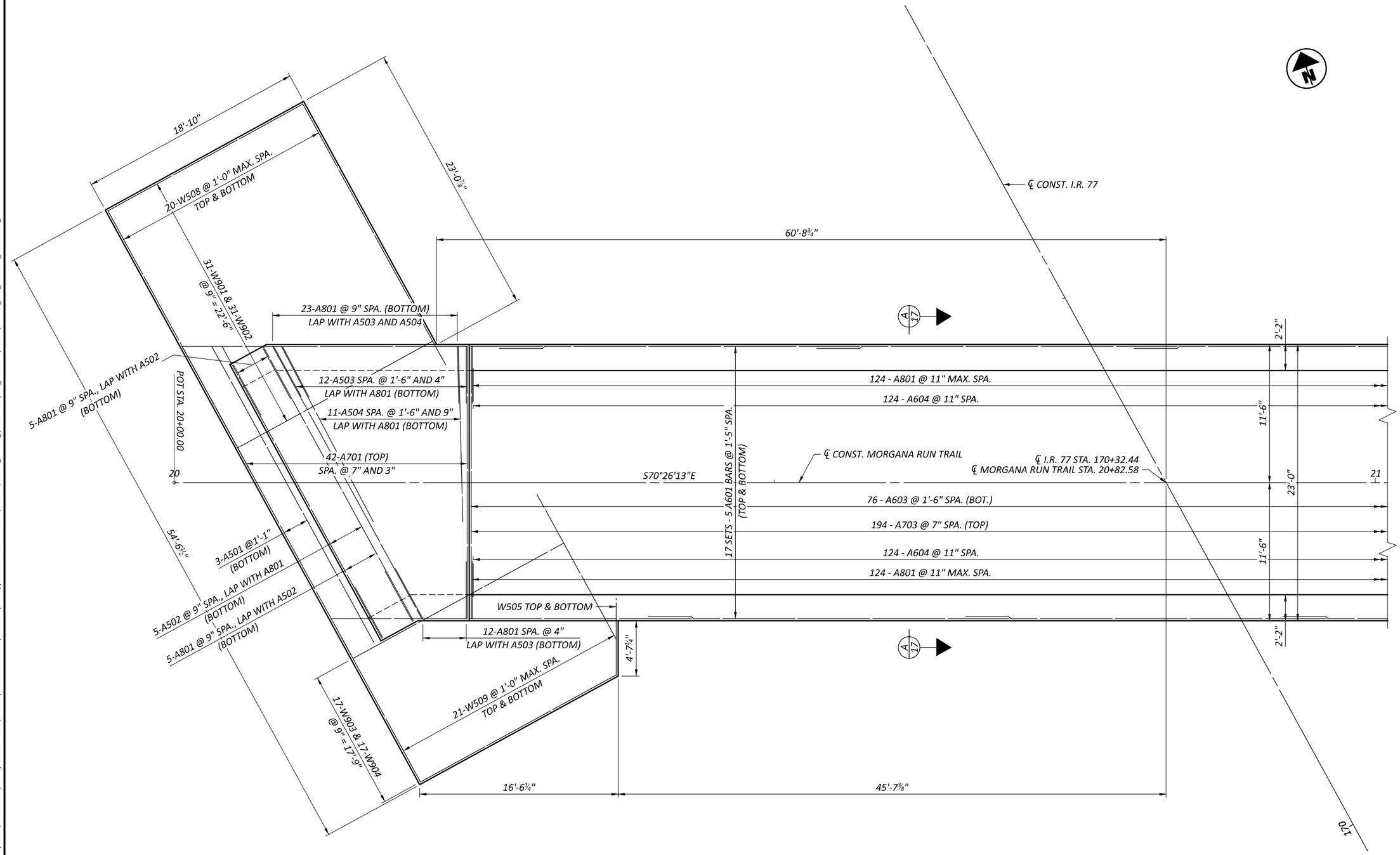
| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 14 |
| TOTAL | 24 |
| SHEET | P.1043 |
| TOTAL | P.1135 |




**NOTES:**

1. FOR SECTION A-A DETAILS, SEE SHEET 17/24.

## PARTIAL FOOTING PLAN

(END PORTALS AND WINGWALLS NOT SHOWN)

# FOUNDATION DETAILS - I
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 15 |
| TOTAL | 24 |
| SHEET | P.1044 |
| TOTAL | P.1135 |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:24:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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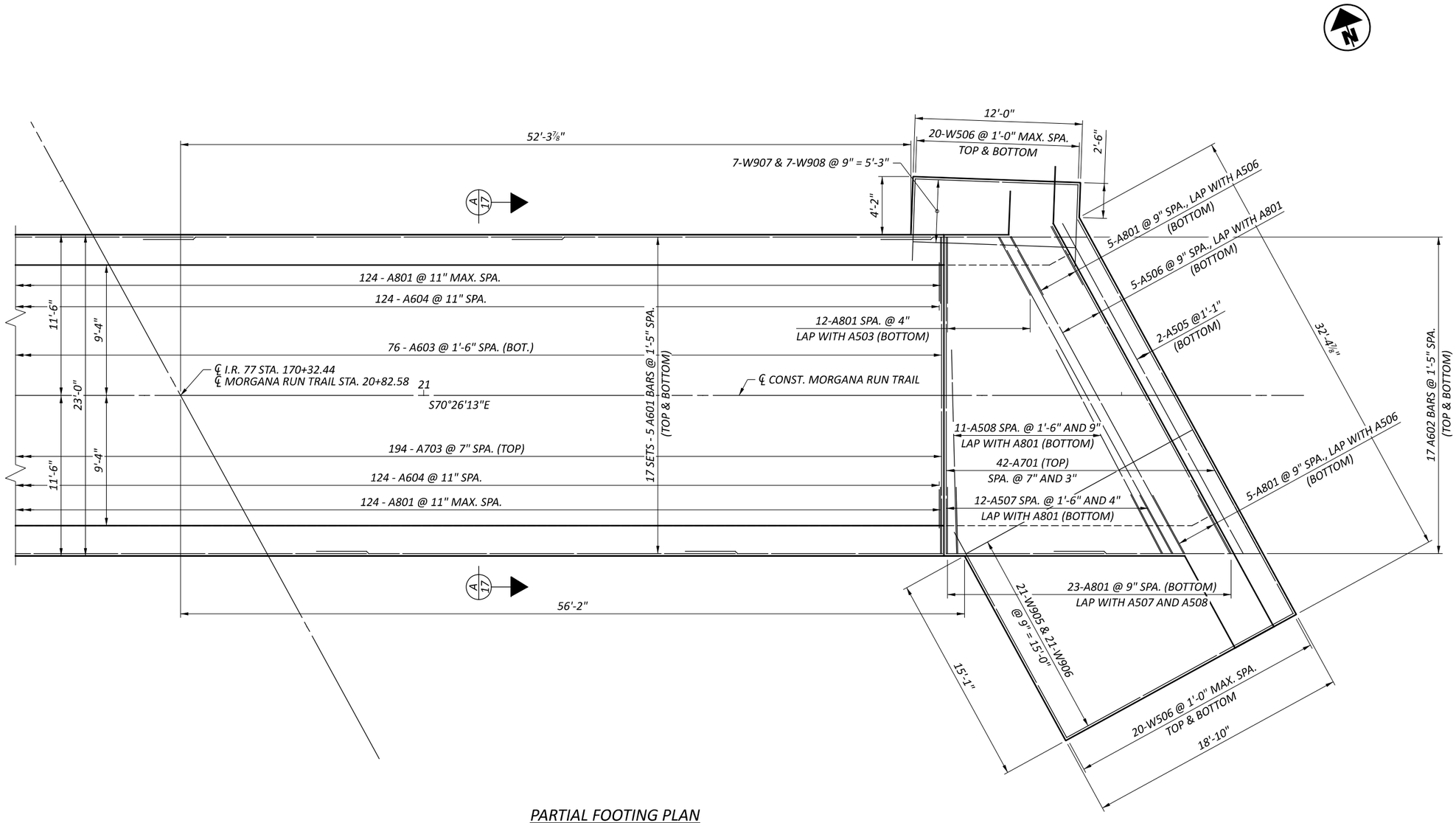



## *PARTIAL FOOTING PLAN*

*(END PORTALS AND WINGWALLS NOT SHOWN)*

*NOTES:*

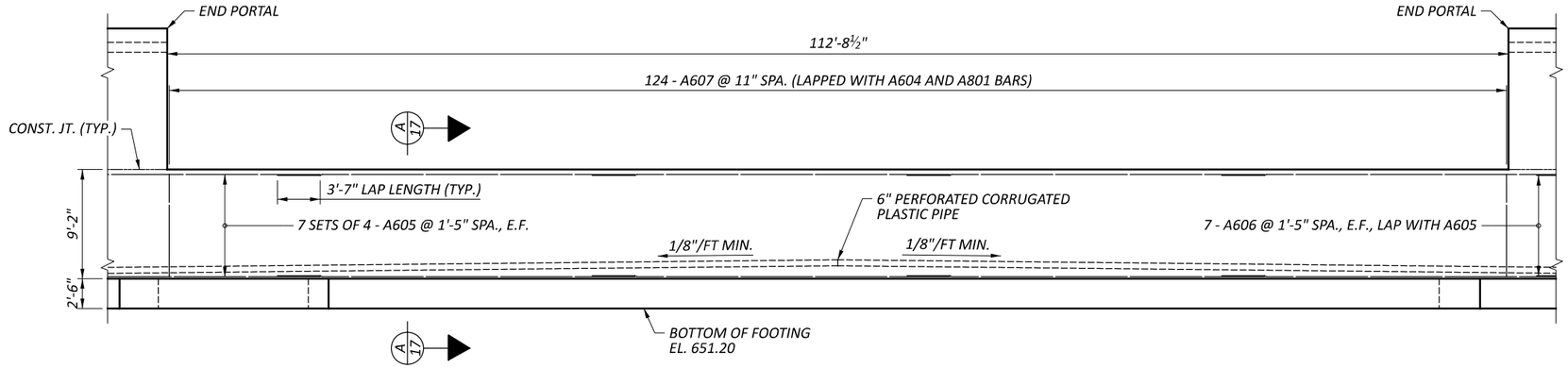
*1. FOR LOCATION OF SECTION A-A SEE SHEETS 17/24.*

# FOUNDATION DETAILS - II
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 16 |
| TOTAL | 24 |
| SHEET | P.1045 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:24:24 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SO002-B.dgn

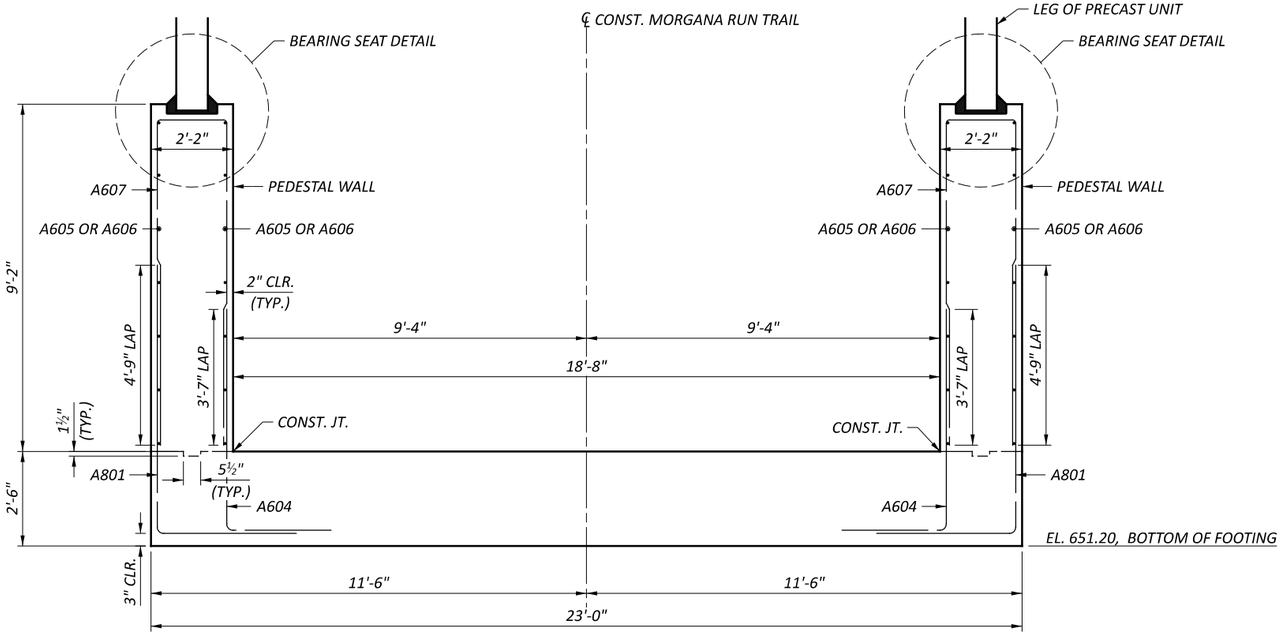



## PEDESTAL ELEVATION

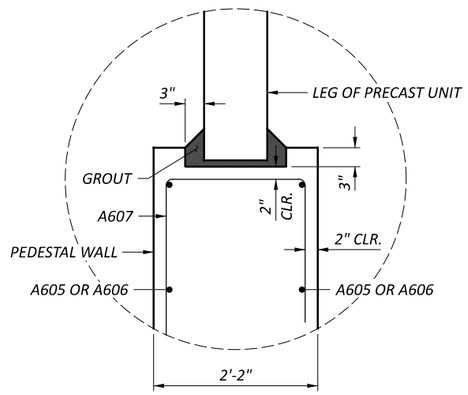
(TYPICAL EACH SIDE)

## NOTES:

1. SEE SHEET 15/24 & SHEET 16/24 FOR FOOTING REINFORCEMENT DETAILS.
2. SEE SHEET 14/24 FOR FOOTING LAYOUT DETAILS.




## SECTION A-A




## BEARING SEAT DETAIL

# PEDESTAL WALL DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 17 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1046 | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:24:34 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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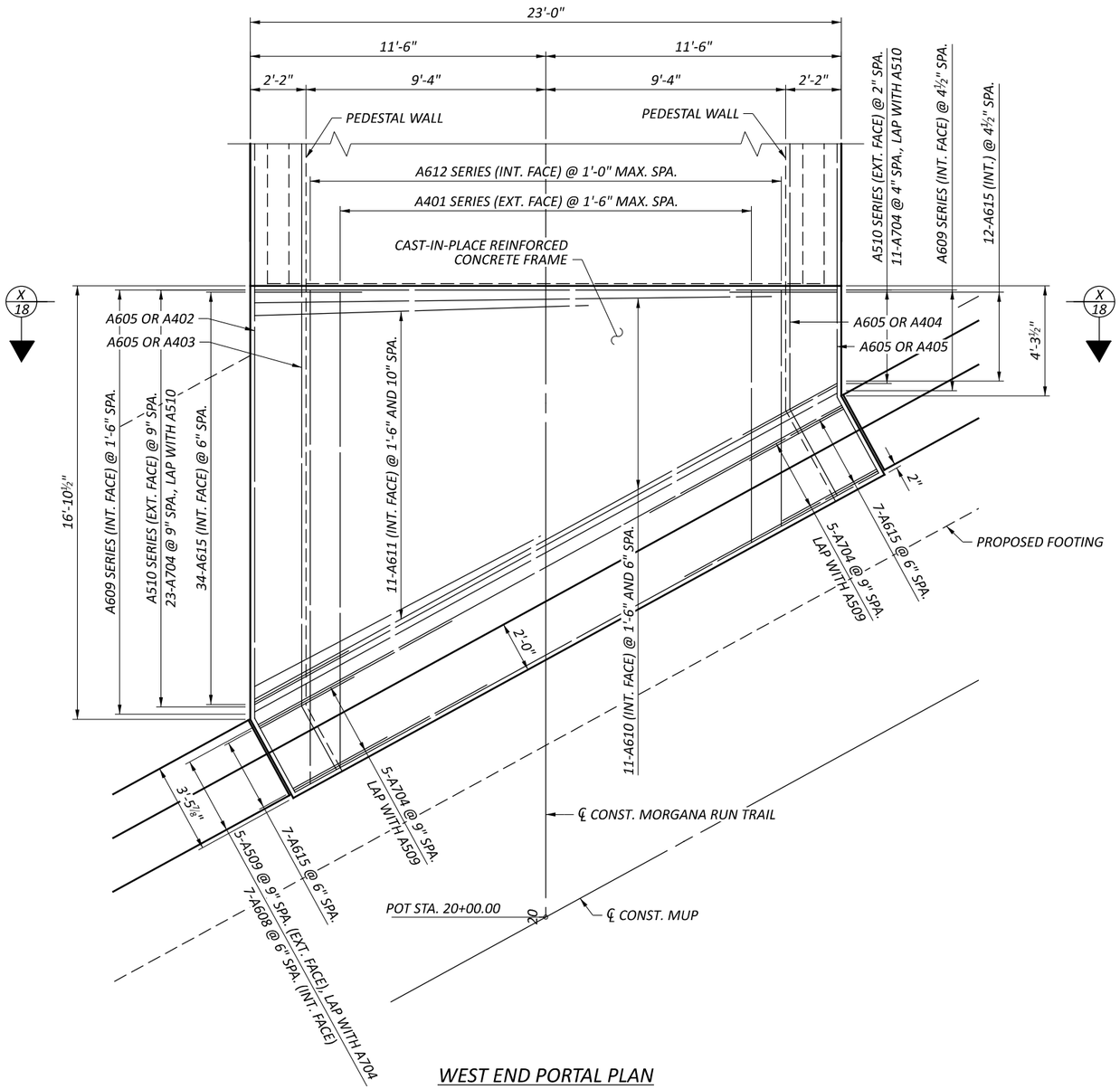
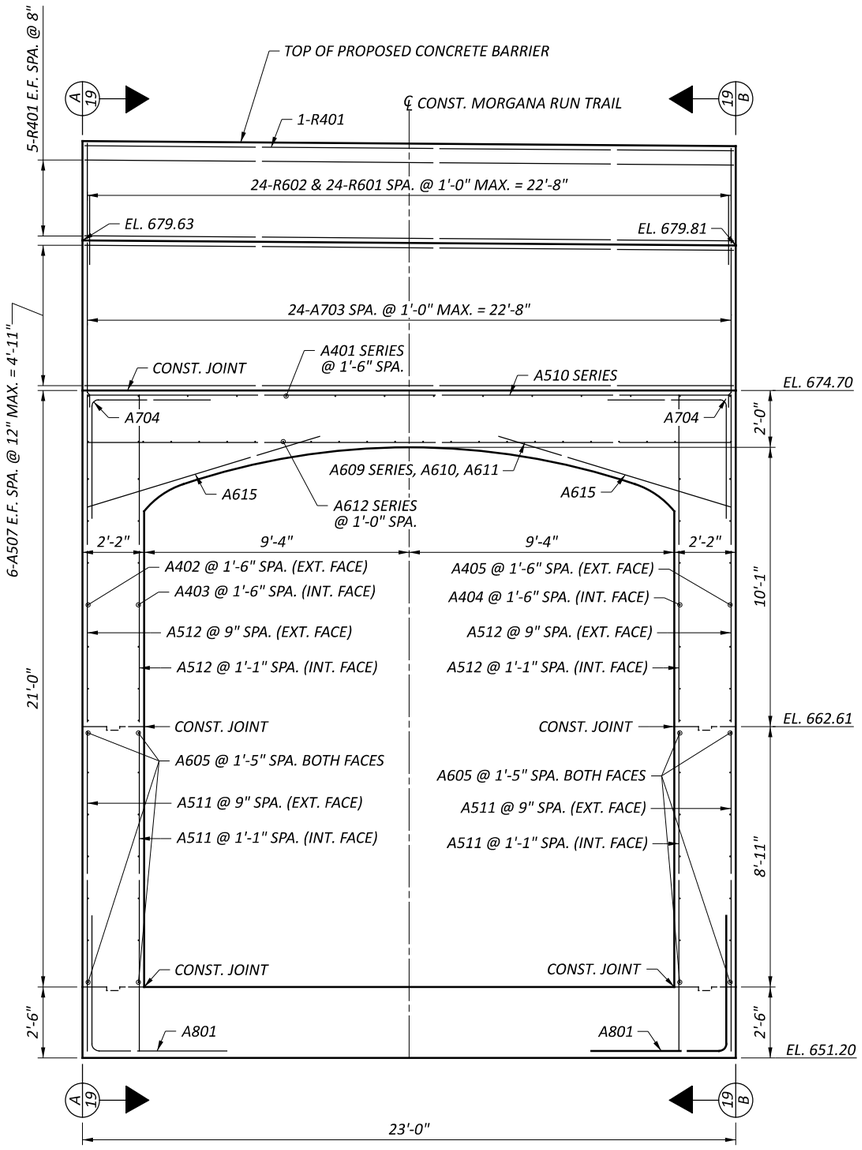



WEST END PORTAL PLAN




SECTION X-X

# CUY-77-11.41 - PART 1

# WEST END PORTAL DETAILS
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 18 |
| TOTAL | 24 |
| SHEET | P.1047 |
| TOTAL | P.1135 |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:24:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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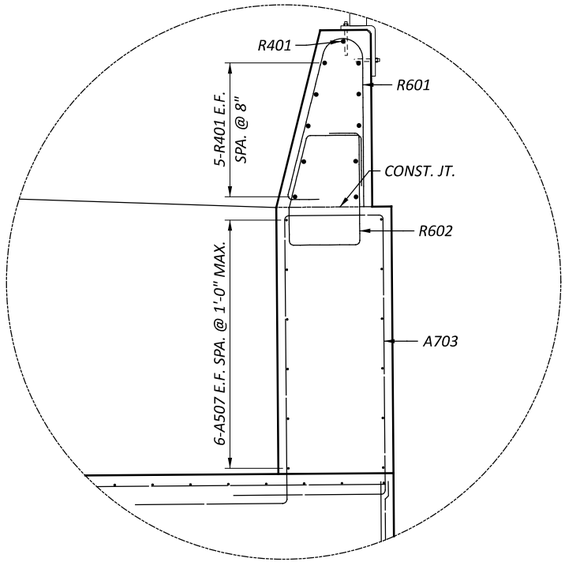
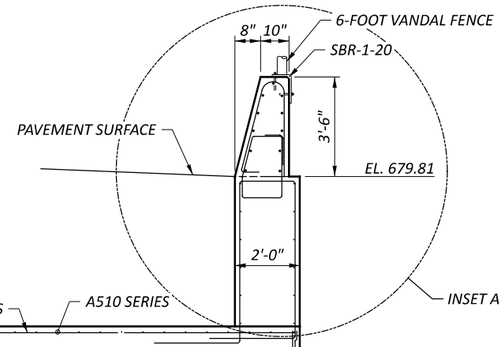
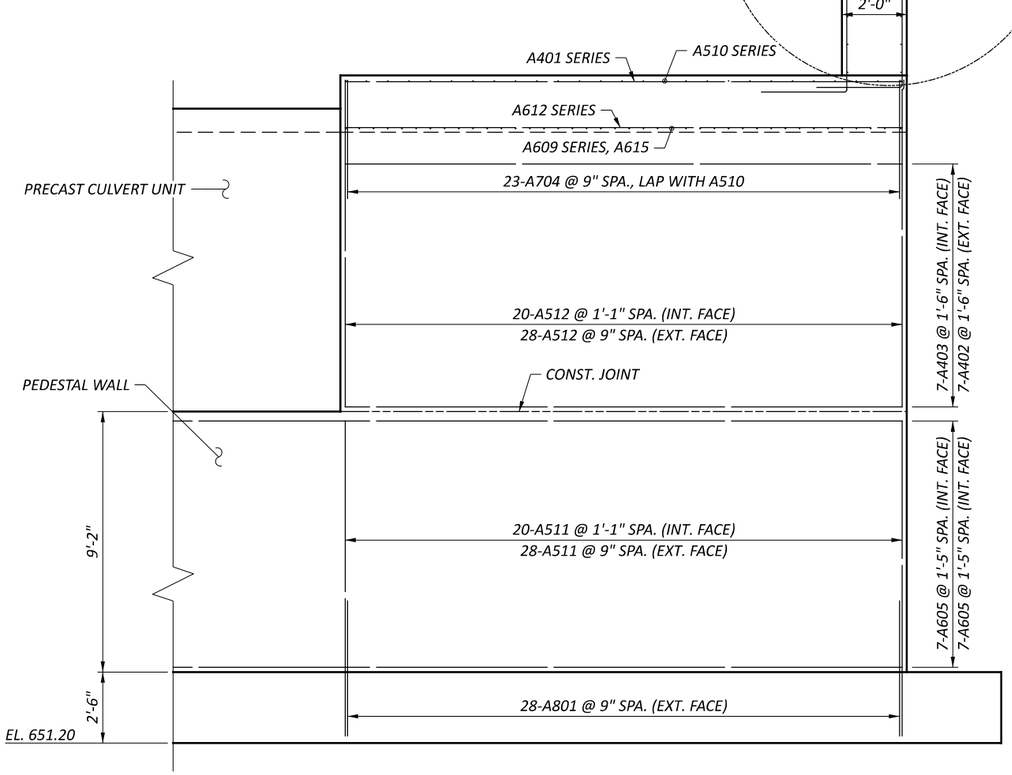
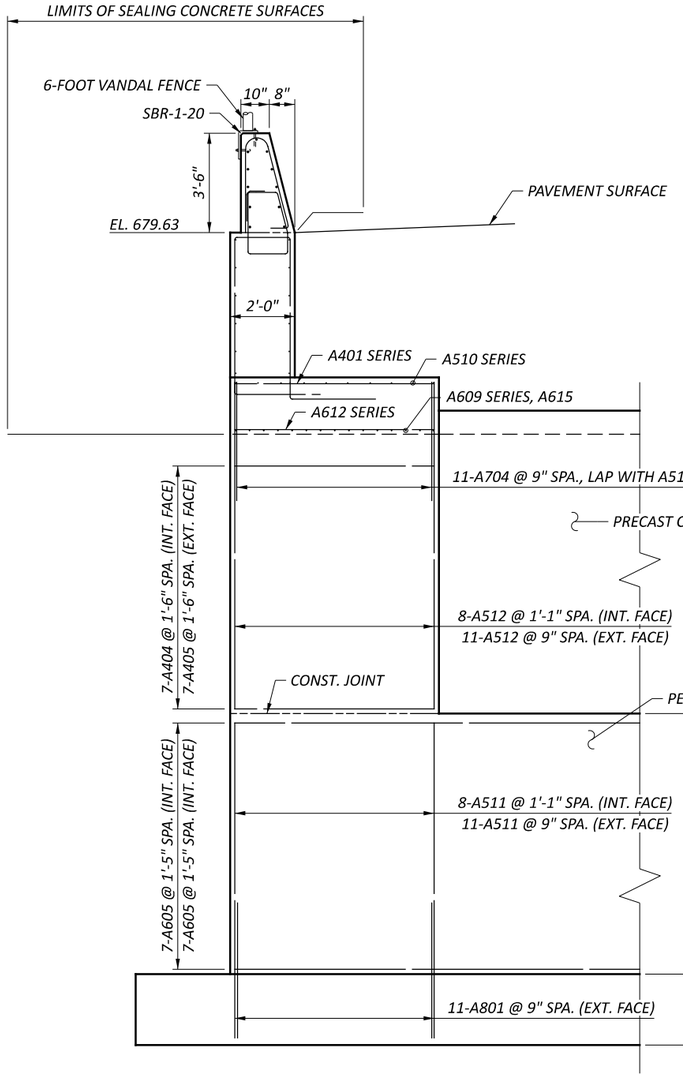



INSET A




SECTION A-A




SECTION B-B

*NOTE:*

*1. FOR LOCATION OF SECTIONS A-A AND B-B, SEE SHEET 20/26.*

# WEST END PORTAL DETAILS
## BRIDGE NO. CUY-77-1322 OVER
## ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 19 |
| TOTAL | 24 |
| SHEET | P.1048 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:24:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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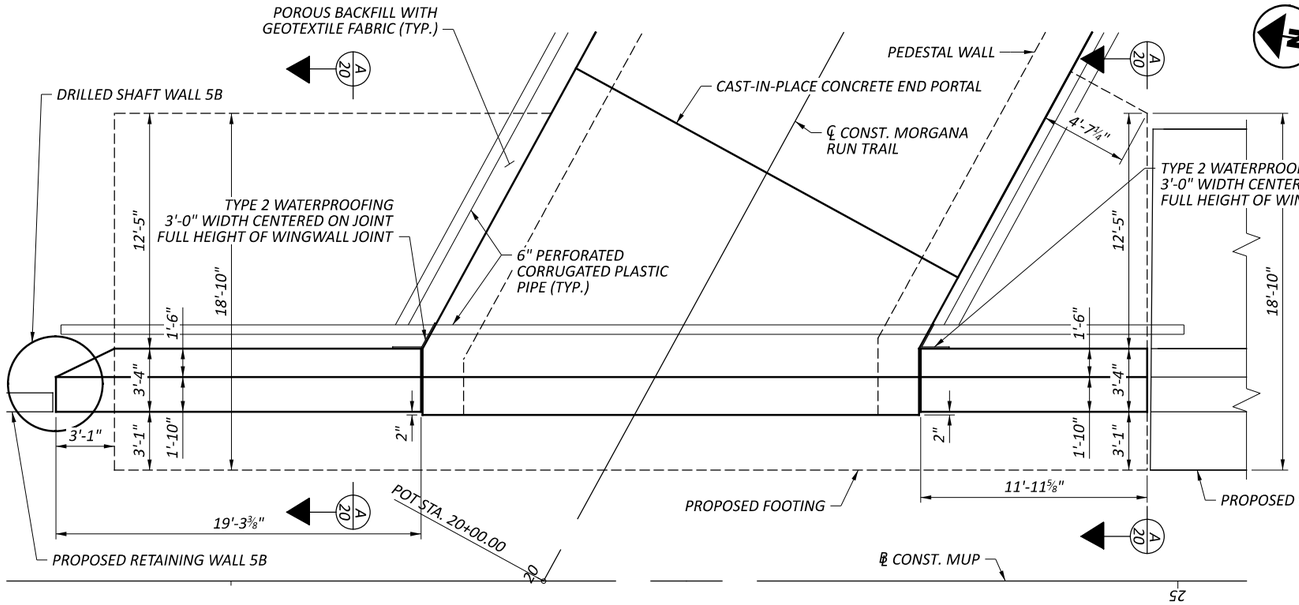



PLAN

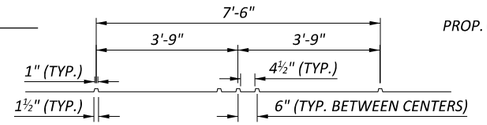



AESTHETIC ELEVATION DETAILS

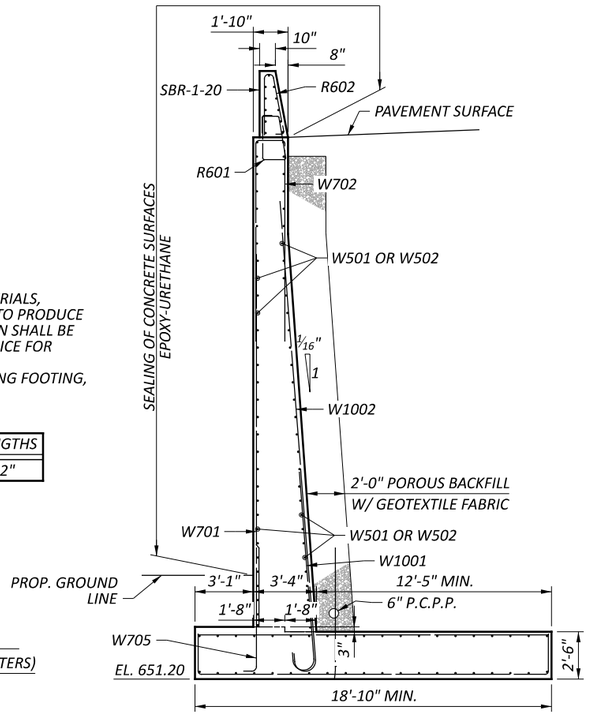
## NOTE:

1. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.

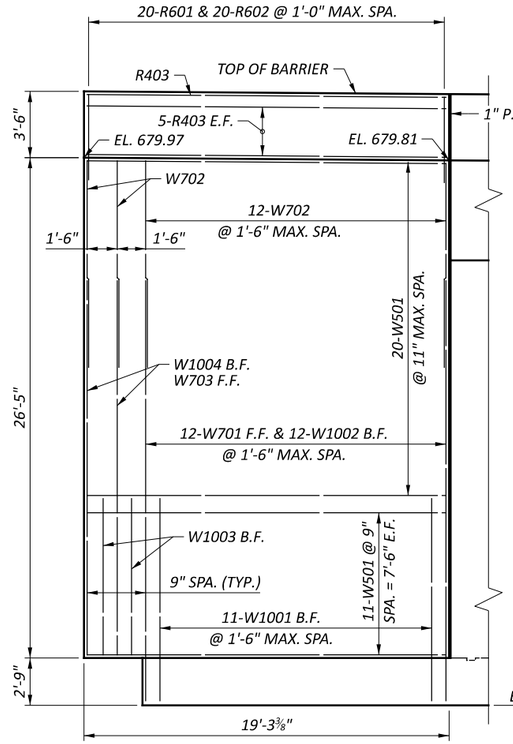
| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 7 BAR | 4'-2" |



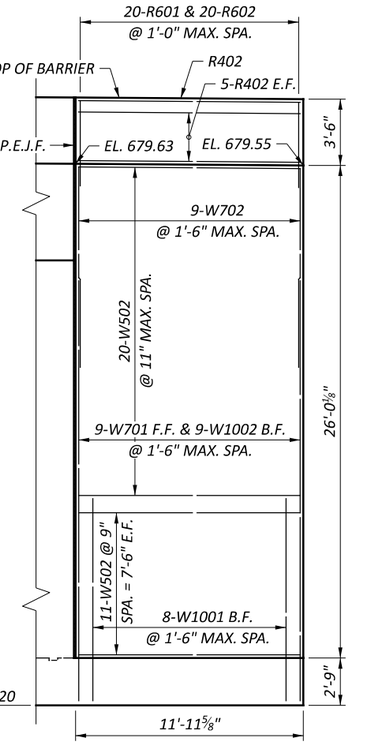

AESTHETIC GROOVE DETAILS




SECTION A-A




NORTH WINGWALL ELEVATION




SOUTH WINGWALL ELEVATION

# WEST WINGWALL DETAILS
# BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 20 |
| TOTAL | 24 |
| SHEET | P.1049 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:25:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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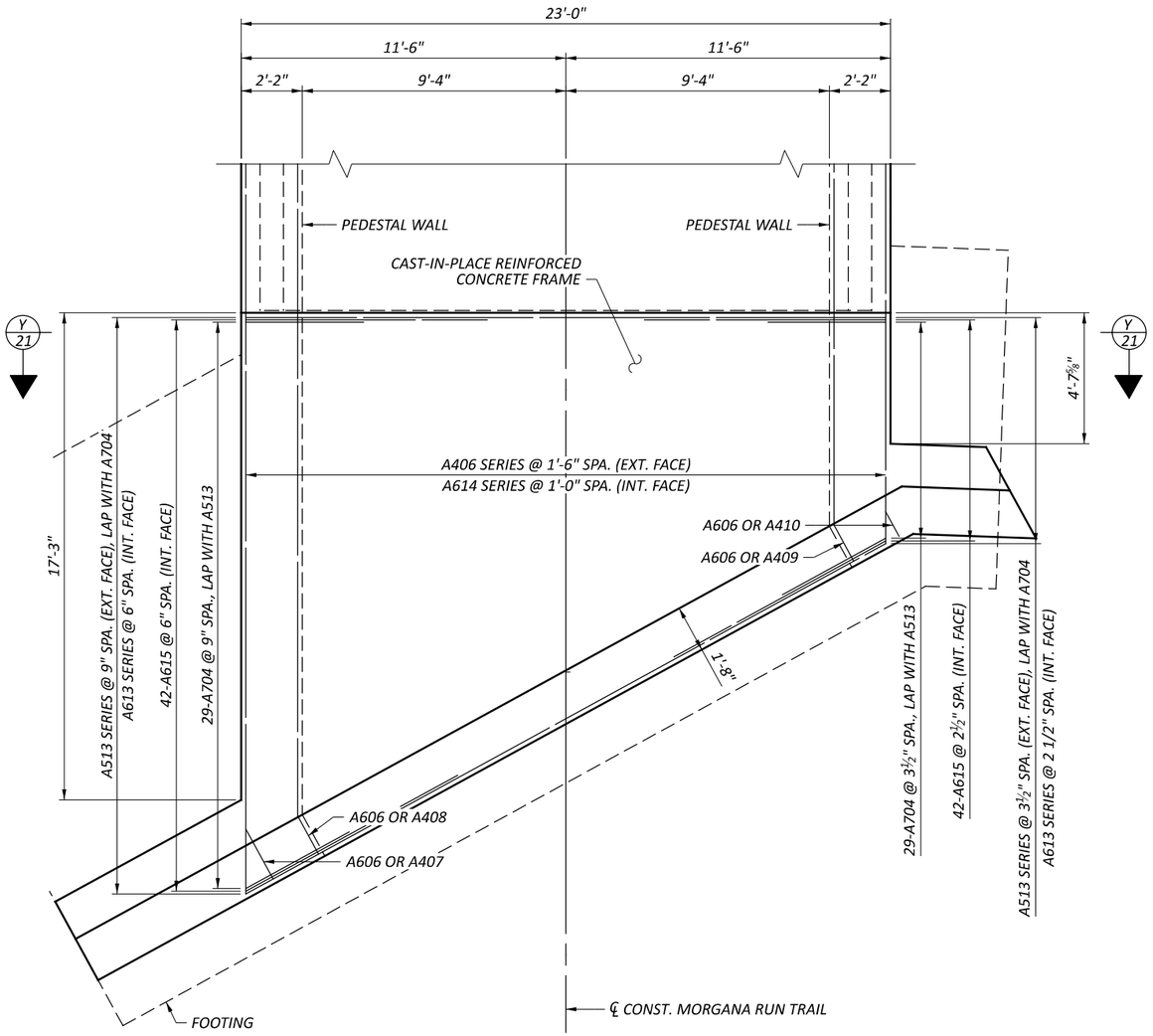
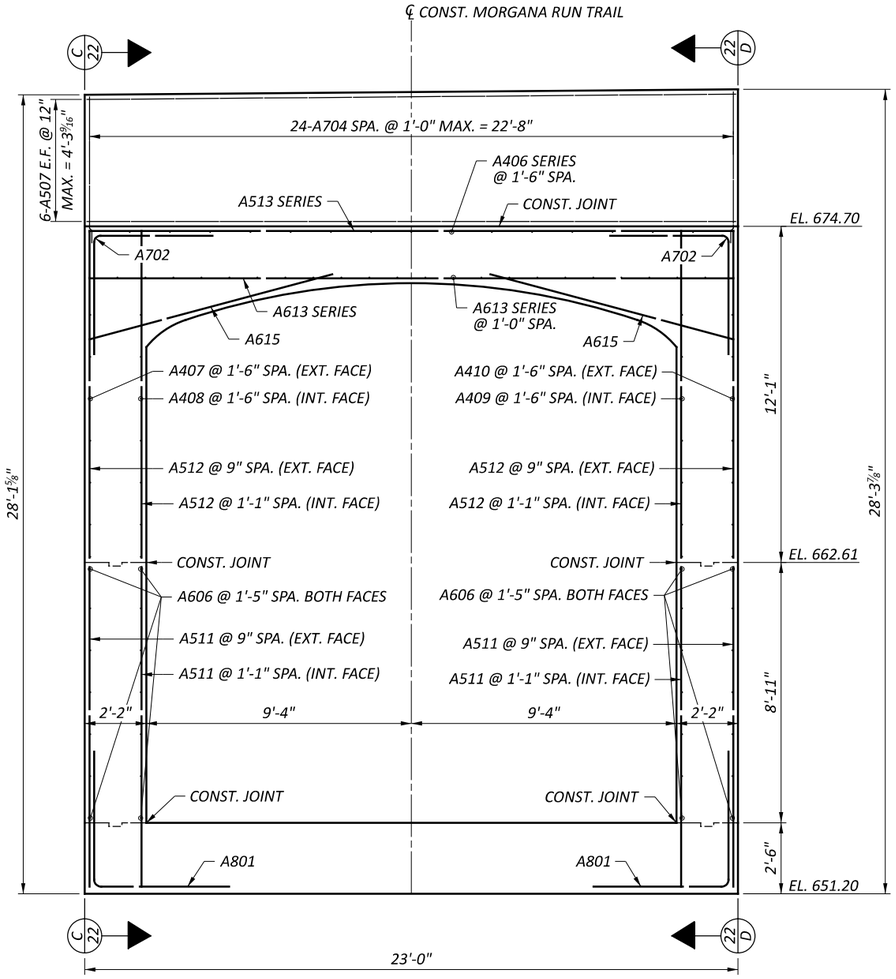



EAST END PORTAL PLAN




SECTION Y-Y

# CUY-77-11.41 - PART 1

# EAST END PORTAL DETAILS
## BRIDGE NO. CUY-77-1322 OVER
## ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 21 |
| TOTAL | 24 |
| SHEET | P.1050 |
| TOTAL | P.1135 |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:25:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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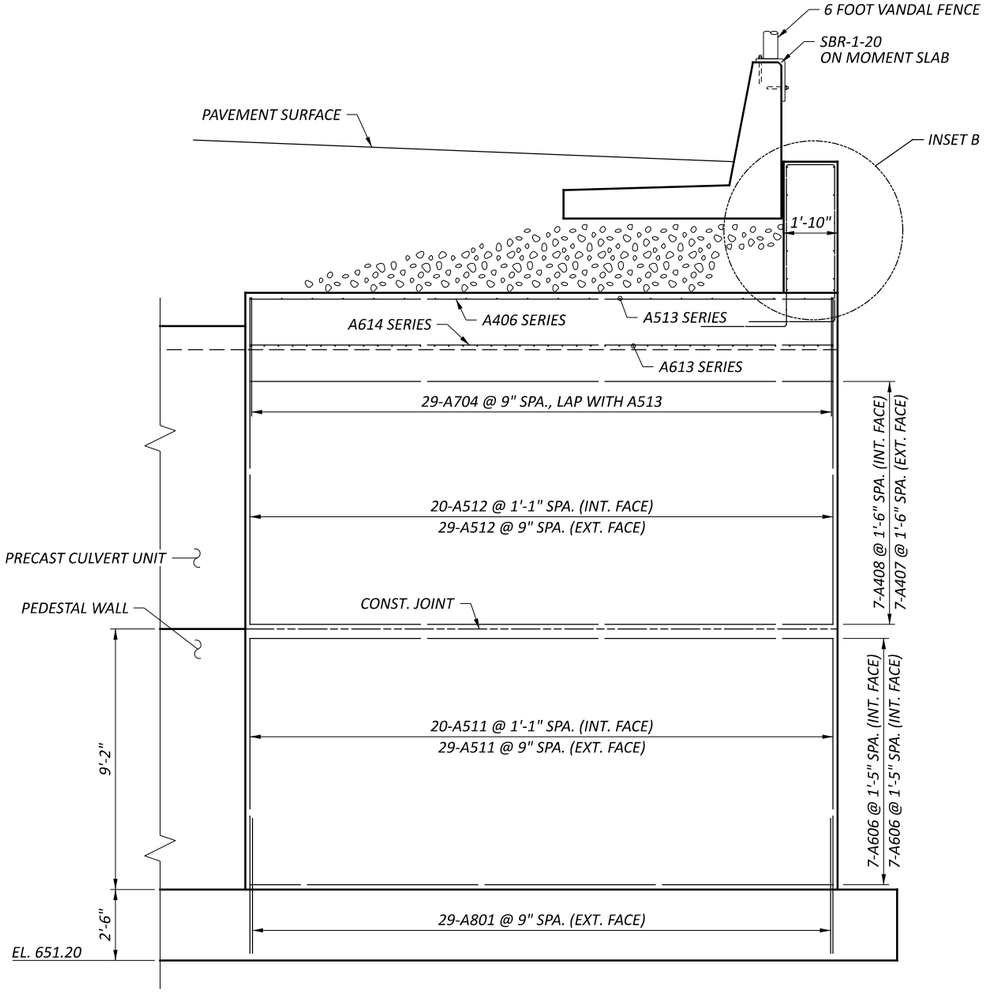
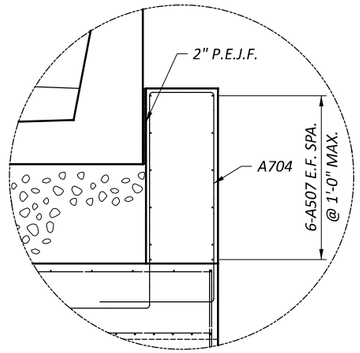
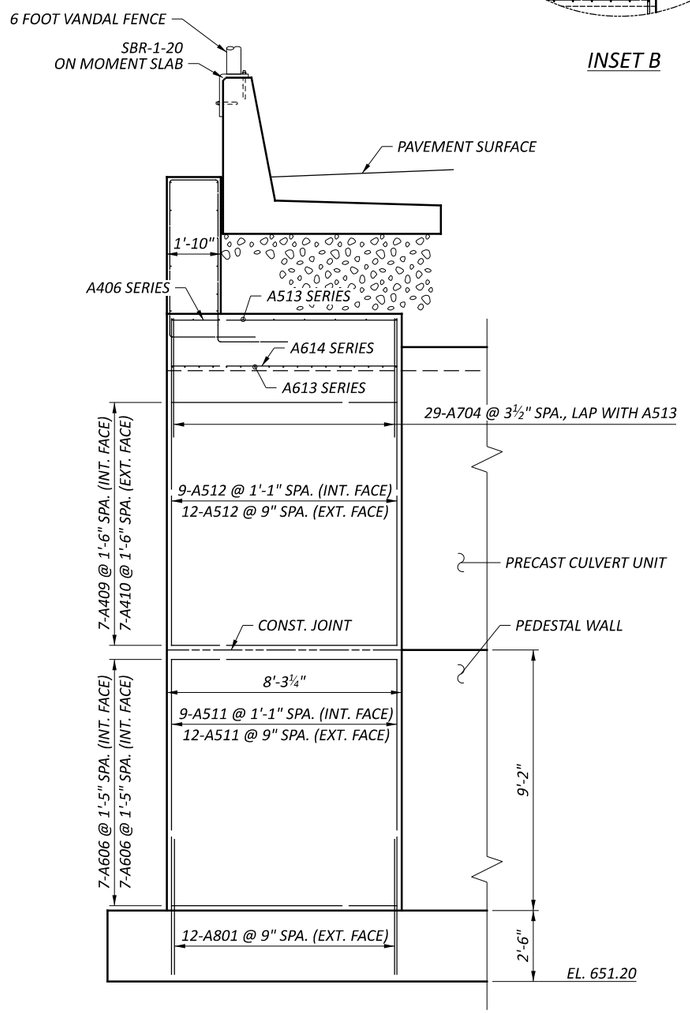



SECTION C-C




INSET B




SECTION D-D

# EAST END PORTAL DETAILS
## BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:25:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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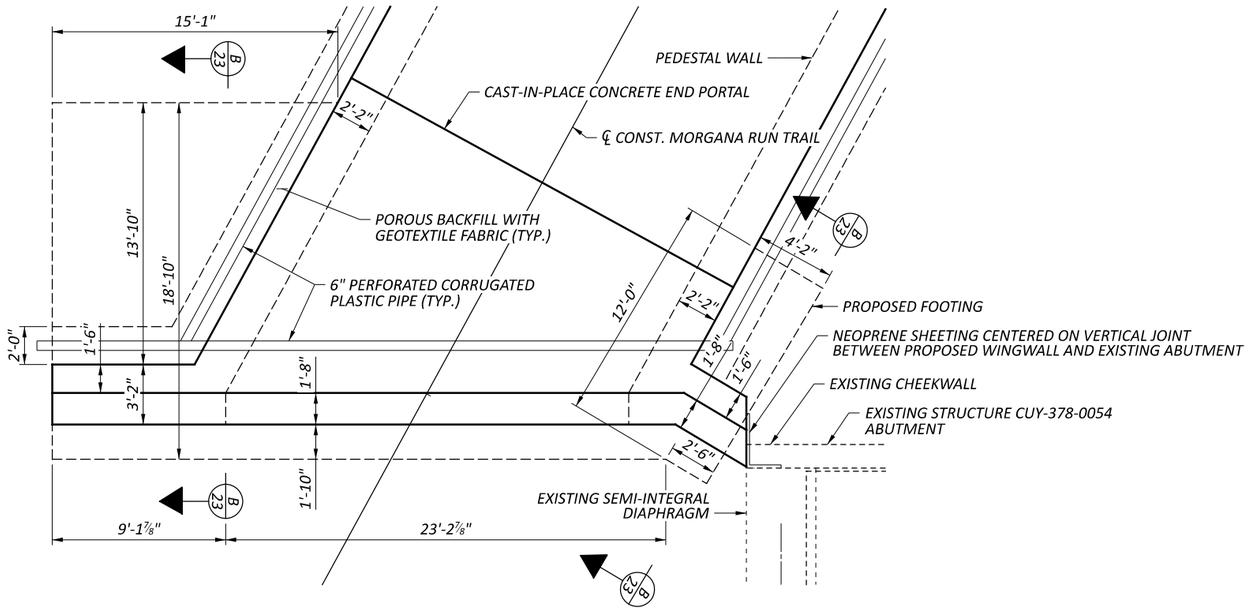
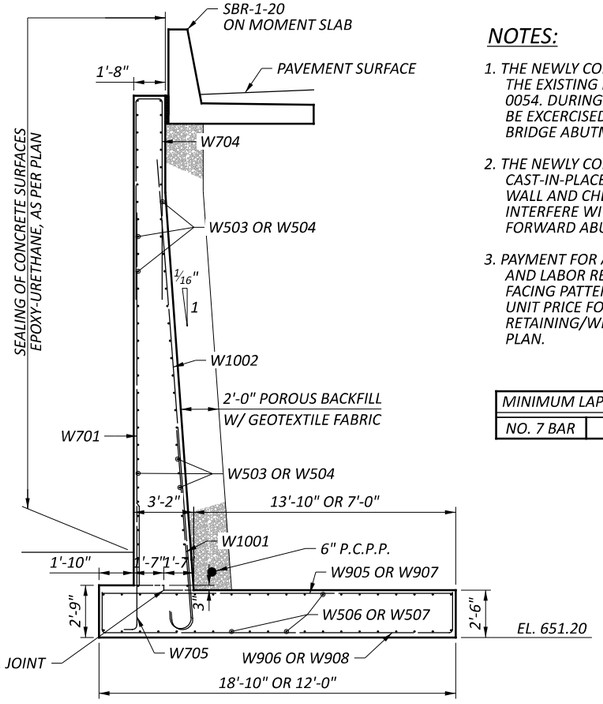
| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 22 |
| TOTAL | 24 |
| SHEET | P.1051 |
| TOTAL | P.1135 |




PLAN

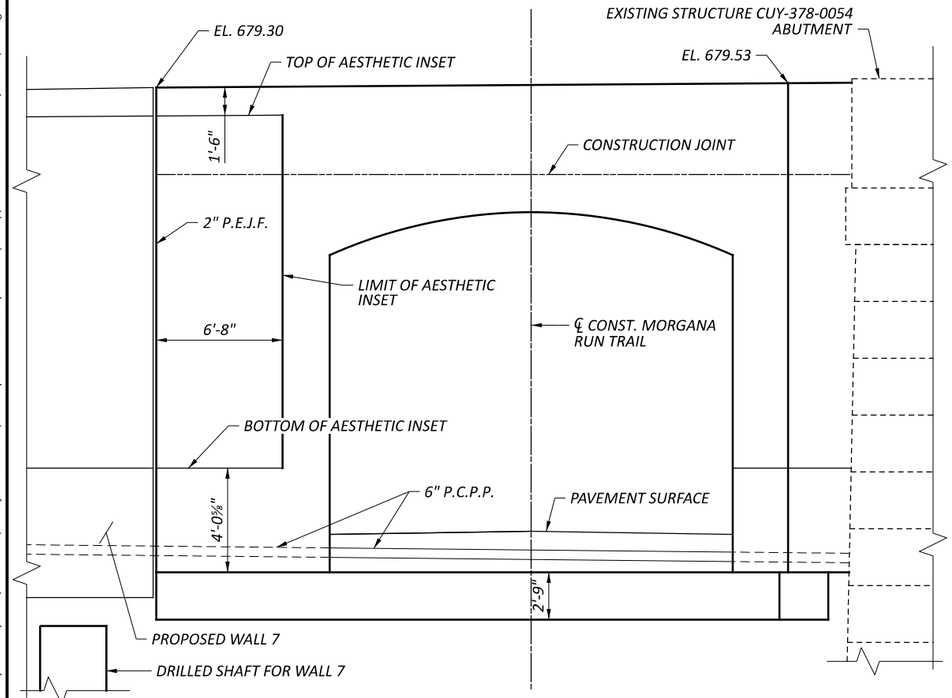



SECTION B-B

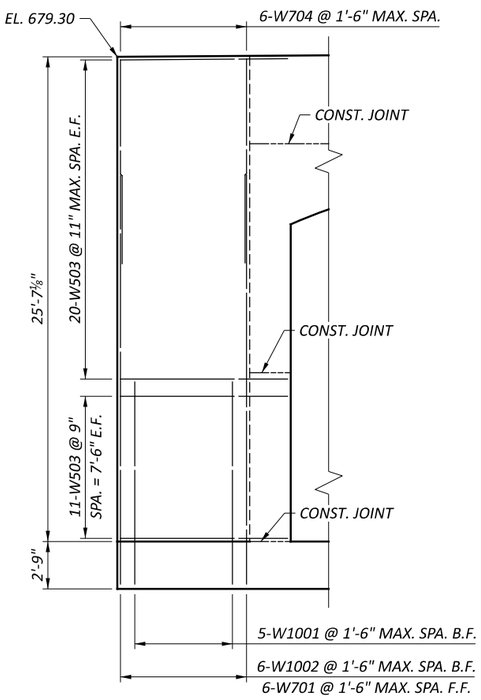
## NOTES:

1. THE NEWLY CONSTRUCTED NORTH WINGWALL WILL ADJOIN THE EXISTING FORWARD ABUTMENT OF BRIDGE CUY-378-0054. DURING CONSTRUCTION OPERATIONS, CARE SHALL BE EXCERCISED TO PROTECT FROM DAMAGE THE ADJACENT BRIDGE ABUTMENT AND WINGWALL.
2. THE NEWLY CONSTRUCTED NORTH WINGWALL IS TO BE CAST-IN-PLACE AGAINST THE EXISTING ABUTMENT STONE WALL AND CHEEKWALL. THE WINGWALL SHALL NOT INTERFERE WITH MOVEMENT OF THE CUY-378-0054 FORWARD ABUTMENT SEMI-INTEGRAL DIAPHRAGM.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.

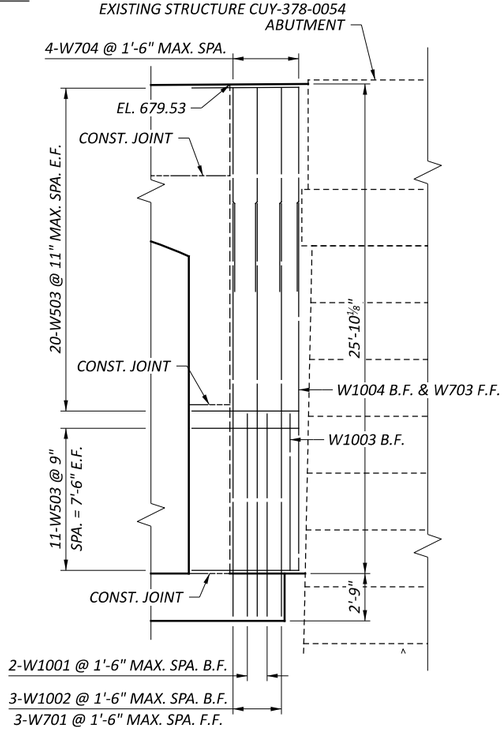
| MINIMUM LAP LENGTHS | |
|---|---|
| NO. 7 BAR | 4'-2" |




ELEVATION




SOUTH WINGWALL ELEVATION




NORTH WINGWALL ELEVATION

# SOUTHEAST RETAINING WALL DETAILS
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

| | |
|---|---|
| SFN | 1806572 |
| DESIGN AGENCY | TRC |
| DESIGNER | NMC |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 23 |
| TOTAL | 24 |
| SHEET | P.1052 |
| TOTAL | P.1135 |

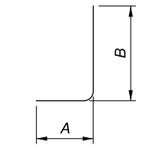
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:25:36 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SO008.dgn

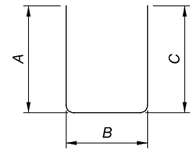
| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CULVERT STRUCTURE | | | | | | | | | | | |
| | 1 SR | 9'-9" | | | | | | | | | |
| A401 | OF | TO | 181 | STR | | | | | | | 0'-9 ¼" |
| | 17 | 22'-2" | | | | | | | | | |
| A402 | 13 | 22'-2" | 192 | STR | | | | | | | |
| A403 | 13 | 21'-2" | 184 | STR | | | | | | | |
| A404 | 13 | 10'-9" | 93 | STR | | | | | | | |
| A405 | 13 | 9'-9" | 85 | STR | | | | | | | |
| | 1 SR | 6'-6" | | | | | | | | | |
| A406 | OF | TO | 144 | STR | | | | | | | 0'-9 ¼" |
| | 17 | 18'-10" | | | | | | | | | |
| A407 | 13 | 18'-10" | 164 | STR | | | | | | | |
| A408 | 13 | 17'-10" | 155 | STR | | | | | | | |
| A409 | 13 | 7'-5" | 64 | STR | | | | | | | |
| A410 | 13 | 6'-5" | 56 | STR | | | | | | | |
| | | | | | | | | | | | |
| A501 | 46 | 25'-10" | 1239 | STR | | | | | | | |
| A502 | 140 | 23'-1" | 3371 | STR | | | | | | | |
| A503 | 20 | 22'-8" | 473 | STR | | | | | | | |
| | 1 SR | 2'-1" | | | | | | | | | |
| A504 | OF | TO | 183 | STR | | | | | | | 1'-4 ½" |
| | 15 | 21'-3" | | | | | | | | | |
| A505 | 2 | 25'-10" | 54 | STR | | | | | | | |
| | 1 SR | 2'-9" | | | | | | | | | |
| A506 | OF | TO | 145 | STR | | | | | | | 1'-11 ¾" |
| | 11 | 22'-6" | | | | | | | | | |
| A507 | 12 | 22'-8" | 284 | STR | | | | | | | |
| | | | | | | | | | | | |
| A601 | 170 | 30'-0" | 7660 | STR | | | | | | | |
| A602 | 34 | 11'-6" | 587 | STR | | | | | | | |
| A603 | 63 | 25'-10" | 2445 | STR | | | | | | | |
| A604 | 228 | 8'-5" | 2882 | 1 | 2'-9" | 5'-10" | | | | | |
| A605 | 128 | 30'-0" | 5768 | STR | | | | | | | |
| A606 | 32 | 6'-7" | 316 | STR | | | | | | | |
| A607 | 228 | 18'-8" | 6393 | 2 | 8'-7" | 1'-10" | 8'-7" | | | | |
| A608 | 33 | 22'-8" | 1123 | STR | | | | | | | |
| | 1 SR | 1'-2" | | | | | | | | | |
| A609 | OF | TO | 421 | STR | | | | | | | 0'-11" |
| | 24 | 22'-2" | | | | | | | | | |
| A610 | 2 | 25'-10" | 78 | STR | | | | | | | |
| | 1 SR | 9'-9" | | | | | | | | | |
| A611 | OF | TO | 575 | STR | | | | | | | 0'-6 ½" |
| | 24 | 22'-2" | | | | | | | | | |
| | 1 SR | 1'-6" | | | | | | | | | |
| A612 | OF | TO | 433 | STR | | | | | | | 0'-11" |
| | 24 | 22'-6" | | | | | | | | | |
| | 1 SR | 6'-5" | | | | | | | | | |
| A613 | OF | TO | 455 | STR | | | | | | | 0'-6 ½" |
| | 24 | 18'-10" | | | | | | | | | |
| | | | | | | | | | | | |
| A701 | 247 | 25'-10" | 13042 | STR | | | | | | | |
| A702 | 88 | 8'-2" | 1469 | 1 | 4'-2" | 4'-2" | | | | | |
| A703 | 24 | 18'-1" | 887 | 30 | 3'-0" | 1'-8" | 5'-8" | 5'-6" | | | |
| A704 | 24 | 17'-11" | 879 | 30 | 3'-0" | 1'-6" | 5'-8" | 5'-6" | | | |
| | | | | | | | | | | | |
| A801 | 324 | 10'-6" | 9083 | 1 | 3'-8" | 7'-1" | | | | | |
| | | | | | | | | | | | |
| SUB-TOTAL | | | 61563 | | | | | | | | |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WINGWALL STEM AND FOOTINGS | | | | | | | | | | | |
| W501 | 62 | 18'-11" | 1223 | STR | | | | | | | |
| W502 | 62 | 11'-8" | 754 | STR | | | | | | | |
| W503 | 62 | 8'-10" | 571 | STR | | | | | | | |
| W504 | 62 | 5'-8" | 366 | STR | | | | | | | |
| W505 | 2 | 6'-5" | 13 | STR | | | | | | | |
| W506 | 40 | 16'-9" | 699 | STR | | | | | | | |
| W507 | 26 | 5'-10" | 158 | STR | | | | | | | |
| W508 | 40 | 24'-9" | 1033 | STR | | | | | | | |
| W509 | 42 | 13'-9" | 602 | STR | | | | | | | |
| | | | | | | | | | | | |
| W701 | 30 | 22'-2" | 1359 | 1 | 21'-8" | 0'-8" | | | | | |
| W702 | 23 | 22'-3" | 1046 | 2 | 10'-7" | 1'-6" | 10'-7" | | | | |
| W703 | 3 | 22'-7" | 138 | 1 | 19'-9" | 3'-0" | | | | | |
| W704 | 10 | 22'-1" | 451 | 2 | 10'-7" | 1'-4" | 10'-7" | | | | |
| | | | | | | | | | | | |
| W901 | 31 | 18'-6" | 1950 | STR | | | | | | | |
| W902 | 31 | 22'-1" | 2328 | 2 | 2'-1" | 18'-6" | 2'-1" | | | | |
| W903 | 17 | 20'-0" | 1156 | STR | | | | | | | |
| W904 | 17 | 23'-7" | 1363 | 2 | 2'-1" | 20'-0" | 2'-1" | | | | |
| W905 | 21 | 18'-6" | 1321 | STR | | | | | | | |
| W906 | 21 | 22'-1" | 1577 | 2 | 2'-1" | 18'-6" | 2'-1" | | | | |
| W907 | 7 | 11'-8" | 278 | STR | | | | | | | |
| W908 | 11 | 15'-3" | 570 | 2 | 2'-1" | 11'-8" | 2'-1" | | | | |
| | | | | | | | | | | | |
| W1001 | 26 | 13'-4" | 1492 | 16 | 11'-11" | | | | | | |
| W1002 | 30 | 27'-8" | 3571 | 16 | 26'-3" | | | | | | |
| W1003 | 3 | 8'-3" | 106 | STR | | | | | | | |
| W1004 | 3 | 19'-9" | 255 | STR | | | | | | | |
| | | | | | | | | | | | |
| SUB-TOTAL | | | 24380 | | | | | | | | |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS A | B | C | D | E | R | INC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BARRIER | | | | | | | | | | | |
| R401 | 11 | 22'-8" | 167 | STR | | | | | | | |
| R402 | 11 | 11'-8" | 86 | STR | | | | | | | |
| R403 | 11 | 18'-11" | 139 | STR | | | | | | | |
| | | | | | | | | | | | |
| R601 | 57 | | 0 | 37 | 0'-9" | 0'-9 ½" | 1'-5" | 1'-0" | 0'-7" | | |
| R602 | 57 | 5'-8" | 339 | 23 | 0'-6" | 3'-3" | 3'-3" | | | 0'-2" | |
| | | | | | | | | | | | |
| SUB-TOTAL | | | 731 | | | | | | | | |




TYPE-1

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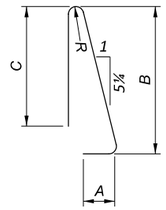


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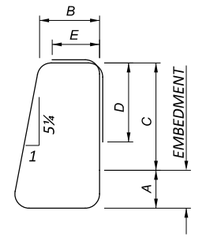


TYPE-37

## NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. ALL REINFORCING STEEL TO BE EPOXY COATED.
3. SERIES BARS - BAR LENGTHS VARY BY TABULATED INCREMENT.

# REINFORCING STEEL LIST
# BRIDGE NO. CUY-77-1322 OVER
# ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| NMC | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 24 | 24 |

| SHEET | TOTAL |
|---|---|
| P.1053 | P.1135 |

CUY-77-11.41 - PART 1

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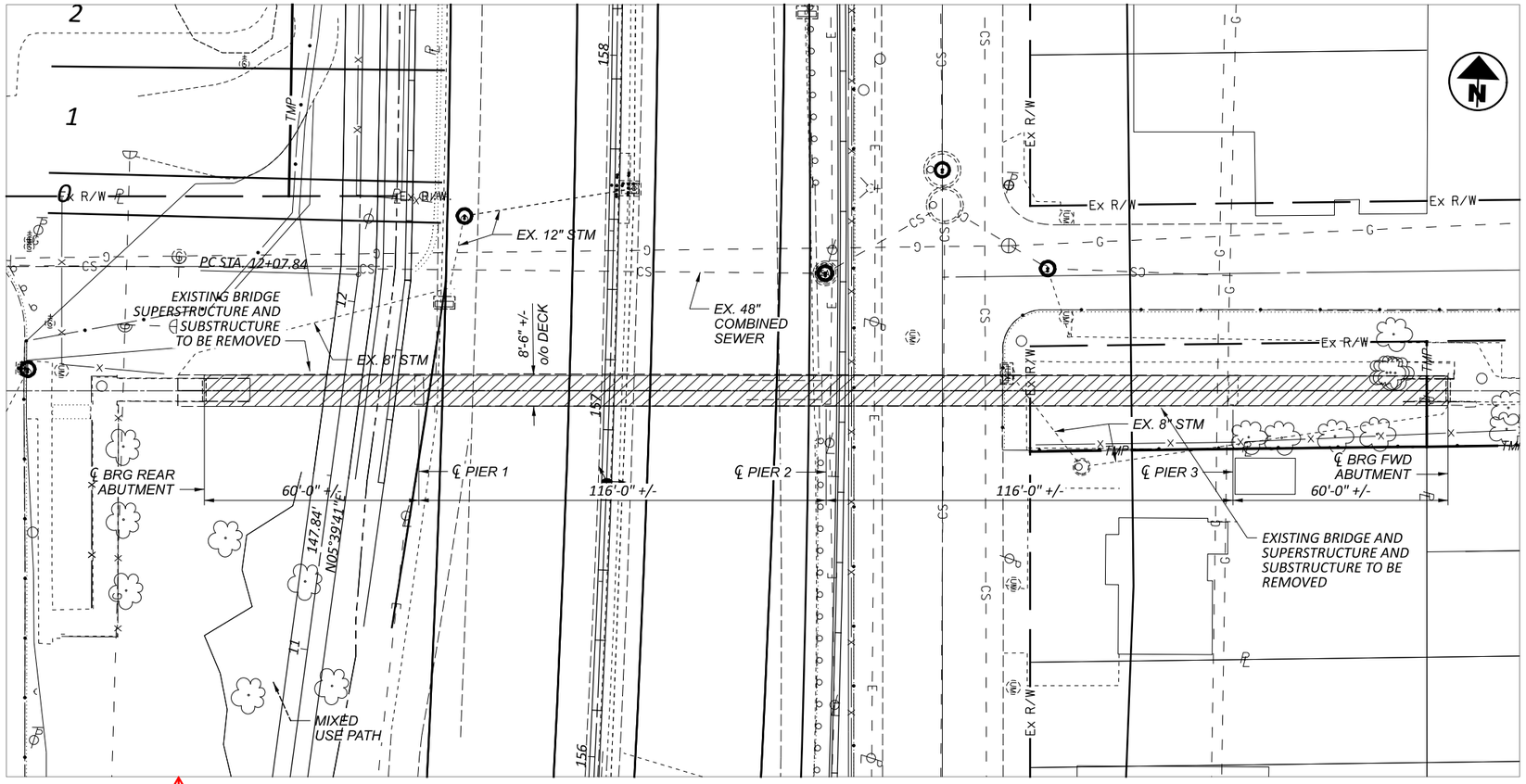


NOTE: LEVEL DISPLAY ISSUE IN ORD 2024 HAS BEEN RAISED TO BENTLEY AND WILL BE ADDRESSED FOR STAGE 3

PLAN

*NOTES:*

*1. THE EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE UNITS SHALL BE REMOVED PER CMS 202.03. REMOVAL OPERATIONS MAY BE PERFORMED IN MULTIPLE STAGES COORDINATED WITH CONSTRUCTION AND MOT PHASES. REFER TO MAINTENANCE OF TRAFFIC PLANS FOR THJE SCHEDULE AND CONFIGURATION OF TEMPORARY TRAFFIC LANES.*

*2. REMOVAL OF APPROACH RETAINING WALLS, WALKWAYS, RAMPS, STAIRS, RAILINGS AND OTHER PEDESTRIAN FACILITIES IS INCLUDED IN ROADWAY QUANTITIES FOR PAYMENT. REFER TO RECORD PLANS OF BRIDGE CUY-77-1297 FOR TYPICAL SECTIONS AND SUBSTRUCTURE DETAILS.*

## LEGEND

*LIMITS OF EXISTING STRUCTURE REMOVAL*

*SEE ROADWAY SHEETS FOR PROPOSED GRADING AT ABUTMENTS.*

## EXISTING STRUCTURE

***TYPE:*** *CONTINUOUS STEEL WELDED GIRDERS WITH REINFORCED CONCRETE DECK*

***SPANS:*** *60'-116'-116'-60'*
***WALKWAY:*** *7'-6" CLEAR*
***LOADING:*** *85 PSF (LIVE LOAD)*
***SKEW:*** *NONE*
***WEARING SURFACE:*** *1" MONOLITHIC CONCRETE*
***APPROACH SLABS:*** *6'-10" LONG*
***ALIGNMENT:*** *TANGENT*
***STRUCTURE FILE NUMBER:*** *1806548*
***DATE BUILT:*** *1975*
***DISPOSITION:*** *TO BE REMOVED*

## ESTIMATED QUANTITIES (CUY-77-1297)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 202 | 11002 | LS | | STRUCTURE REMOVED, OVER 20 FOOT SPAN | |
| | | | | | |

GENERAL PLAN
BRIDGE NO. CUY-77-1297 CHARD AVE. PEDESTRIAN BRIDGE OVER IR-77

DESIGN AGENCY TRC
DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 | TOTAL 1
SHEET P.1054 | TOTAL P.1135

CUY-77-11.41 - PART 1

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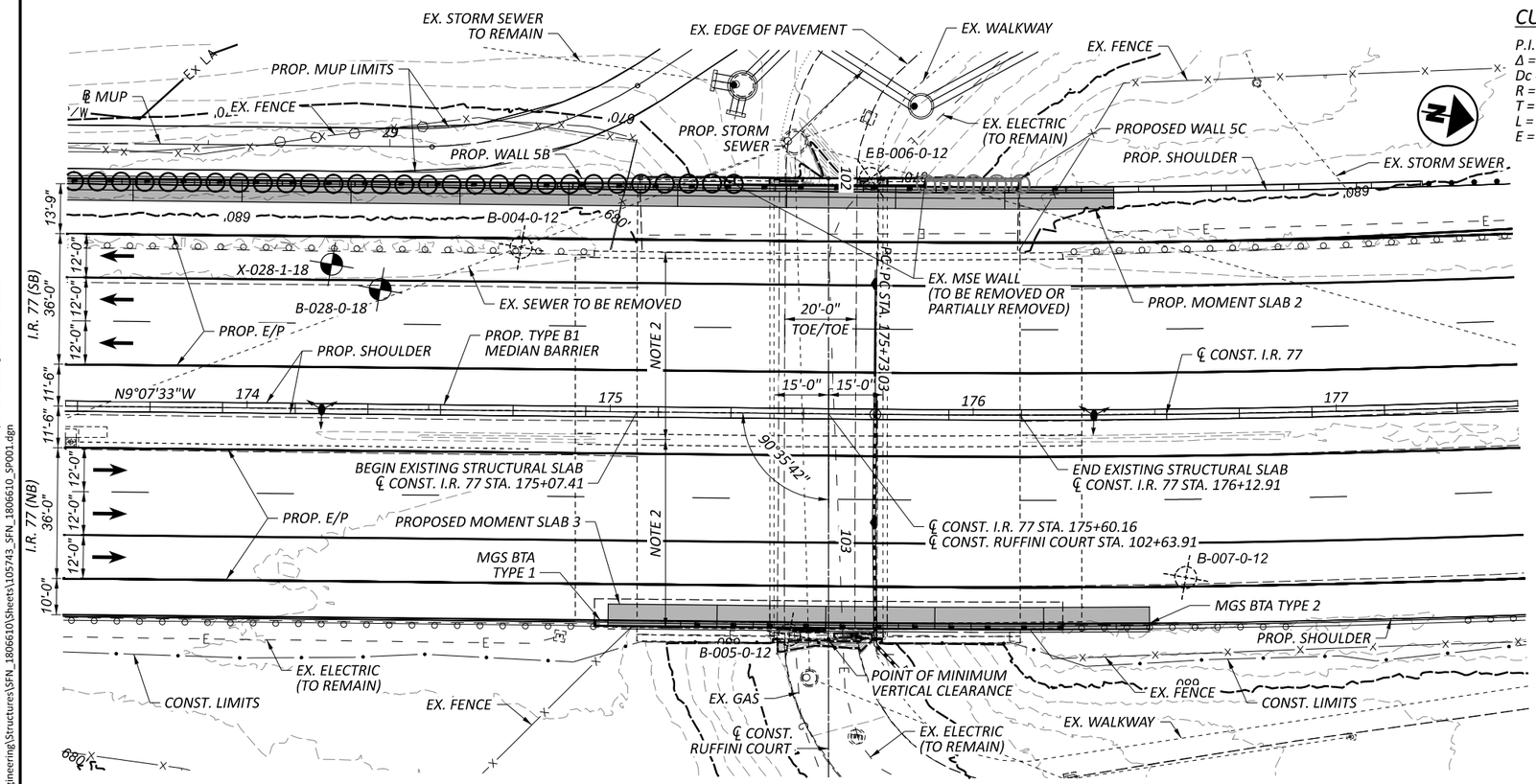
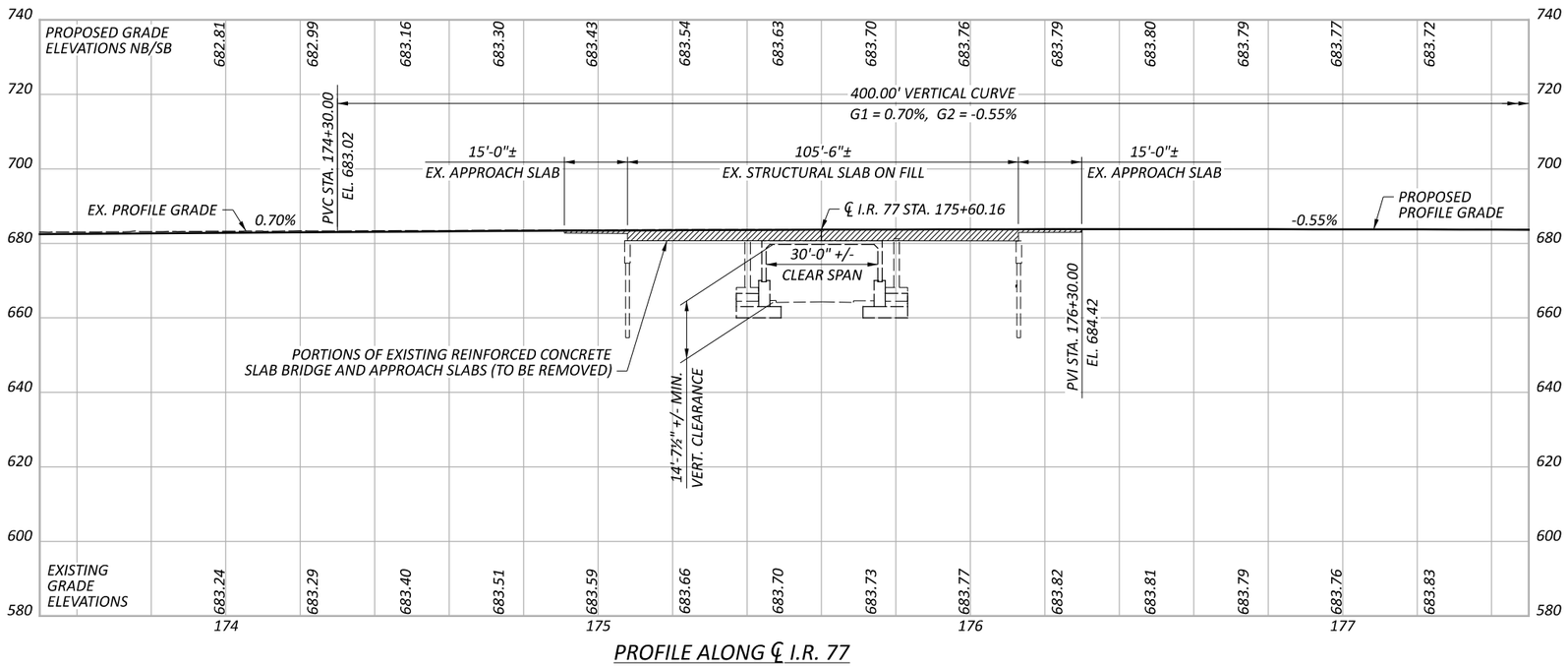



PLAN




PROFILE ALONG ℄ I.R. 77

## CURVE DATA I.R. 77

P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

## BENCHMARK DATA

| | | | | | |
|---|---|---|---|---|---|
| BM #1 STA. | , | ELEV. | , | OFFSET | , |
| BM #2 STA. | , | ELEV. | , | OFFSET | , |
| BM #3 STA. | , | ELEV. | , | OFFSET | , |
| BM #4 STA. | , | ELEV. | , | OFFSET | , |

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLANS.

## NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. EXISTING STRUCTURAL DECK SLAB TO BE REMOVED. WIDTH VARIES 51'-6"+/- TO 51'-8½"+/-.

DESIGN TRAFFIC:
2043 ADT = 126,000 2043 ADTT = 7,560
DIRECTIONAL DISTRIBUTION = 52%

## LEGEND

- BORING LOCATION
- HISTORIC BORING LOCATION

## PROPOSED WORK

REPLACE EXISTING WEST MSE WINGWALLS AND HEADWALLS WITH CAST-IN-PLACE REINFORCED CONCRETE. REMOVE PORTIONS OF ORIGINAL REINFORCED CONCRETE SLAB BRIDGE.

## EXISTING STRUCTURE

TYPE: PRECAST REINFORCED 3-SIDED CONCRETE BOX FOUNDED ON CAST-IN-PLACE REINFORCED CONCRETE SPREAD FOOTINGS (ORIGINAL THREE-SPAN REINFORCED CONCRETE SLAB AND APPROACH SLABS LEFT IN PLACE)

SPANS: 30'-0" F/F WALL
ROADWAY: 20'-0"±
LOADING: HL-93 AND DESIGN TANDEM
SKEW: 0°-27'-00"
WEARING SURFACE: ASPHALT OVERLAY
APPROACH SLABS: 15' LONG (AS-1-67)
ALIGNMENT: TANGENT
SUPELEVATION: VARIES
STRUCTURE FILE NUMBER: 1806610
DATE BUILT: 2016
DISPOSITION: TO BE MODIFIED

## PROPOSED STRUCTURE

TYPE: PRECAST REINFORCED 3-SIDED CONCRETE BOX FOUNDED ON CAST-IN-PLACE REINFORCED CONCRETE SPREAD FOOTINGS WITH NEW WEST WINGWALLS AND HEADWALLS

SPANS: 30'-0" F/F WALL
ROADWAY: 20'-0"±
LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
SKEW: 0°-27'-00"
WEARING SURFACE: ASPHALT
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
SUPERELEVATION: VARIES
DECK AREA: NONE
COORDINATES: LATITUDE N41°-27'-54"
LONGITUDE W81°-39'-28"

# SITE PLAN
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 | TOTAL 12
SHEET P.1055 | TOTAL P.1135

CUY-77-11.41 - PART 1

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## DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

## DESIGN DATA

CONCRETE CLASS QC1, COMPRESSIVE STRENGTH 4.0 KSI (HEADWALL)
EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

## OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN LOADING

VEHICULAR DESIGN LOAD: HL-93
FUTURE WEARING SURFACE (FWS): 0.060 KSF
LIVE LOAD SURCHARGE: 2 FEET OF 125 PCF OVERBURDEN

## EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

## ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

DESCRIPTION: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL OF THE EXISTING MSE WALLS MUST INCLUDE, AT MINIMUM, THE CONCRETE LEVELING PADS, WALL FACING PANELS, COPING, AND PAVED GUTTER. THE CONTRACTOR MAY REMOVE PORTIONS OF THE REINFORCED CELLULAR CONCRETE BACKFILL BEHIND THE WALL FACING AS NEEDED FOR PROPOSED CONSTRUCTION OF THE BRIDGE AND THE ADJACENT RETAINING WALLS 5B AND 5C. ALTERNATIVELY, THE CONTRACTOR MAY REMOVE THE ENTIRETY OF THE MSE BACKFILL AND REINFORCEMENT. NO ADDITIONAL COST WILL BE PAID FOR EITHER OPTION. ANY EXCAVATION OF EXISTING EMBANKMENT REQUIRED TO PERFORM THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE STRUCTURE REMOVAL.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (CONCRETE FRAMES UNITS), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT.

AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

## ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

## ADHESIVE ANCHOR / DOWELS SYSTEMS

INSTALL ADHESIVE ANCHORS/DOWELS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW.

THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT PRIOR TO THE INSTALLATION OF THE ANCHORS, CLEAN AND DRY THE HOLES IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

http://icc-es.org/evaluation-report-program/reports-directory/

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

CHEMOFAST STVK - ICC-ES ELC-2539
HILTI HIT-RE 500 V3 - ICC-ES ELC 3814

FACTORED ANCHOR/DOWEL LOADS:
TENSION = 45 KIPS (A801 DOWELS)
SHEAR = 7 KIPS (A801 DOWELS)

THE CONTRACTOR MAY USE A SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM THAT MEETS THE ACCEPTANCE CRITERIA OF ICEES AC308 - POST INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS. THE SUBSTITUTE ANCHORS SHALL MEET OR EXCEED THE CAPACITY OF THE ADHESIVE ANCHOR/DOWEL SYSTEMS LISTED ABOVE.

ADHESIVE ANCHORS/DOWELS SHALL NOT BE SUBSTITUTED WITH MECHANICAL ANCHORS.

THE CONTRACTOR SHALL SUPPLY DOCUMENTATION SEALED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER ENSURING THAT THE SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM PROVIDES SUFFICIENT CAPACITY FOR THIS APPLICATION IN ACCORDANCE WITH AASHTO LRFD SECTION 5.13. INSTALL THE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORT.

DOWELS WITH ADHESIVE ANCHORS ARE QUANTIFIED UNDER ITEM 510 - DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN.

THE CONTRACTOR SHALL SUPPLY DOCUMENTATION SEALED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER ENSURING THAT THE SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM PROVIDES SUFFICIENT CAPACITY FOR THIS APPLICATION IN ACCORDANCE WITH AASHTO LRFD SECTION 5.13. INSTALL THE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORT.

## CONSTRUCTION SEQUENCE

PHASE 1A, 1B AND 1C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT WESTERN PORTION OF EMBANKMENT, ROADWAY PAVEMENT AND MOMENT SLAB.

PHASE 2:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT CENTER PORTION EMBANKMENT AND ROADWAY PAVEMENT.

PHASE 3A, 3B AND 3C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT EASTERN PORTION OF EMBANKMENT, ROADWAY PAVEMENT AND MOMENT SLAB.

## ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRG. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

# GENERAL NOTES
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 12
SHEET P.1056 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:26:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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## ESTIMATED QUANTITIES (CUY-77-1331)

| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | SEE SHEET |
|---|---|---|---|---|---|
| | | | | | |
| 202 | 11201 | LS | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 2 |
| 202 | 22900 | | SY | APPROACH SLAB REMOVED | |
| | | | | | |
| 509 | 10000 | | LB | EPOXY COATED REINFORCING STEEL | |
| 509 | 25000 | | LB | REINFORCING STEEL | |
| | | | | | |
| 510 | 09951 | | EACH | DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN | 2 |
| 510 | 10000 | | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT | |
| | | | | | |
| 511 | 46613 | | CY | CLASS QC1 CONCRETE WITH QC/QA, HEADWALL, AS PER PLAN | 10 |
| | | | | | |
| 512 | 10101 | | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | 2 |
| 512 | 33000 | | SY | TYPE 2 WATERPROOFING | |
| | | | | | |
| 516 | 13600 | | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 13901 | | SF | 2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN | 11 |
| | | | | | |
| 518 | 20000 | | SY | PREFABRICATED GEOCOMPOSITE DRAIN | |
| 518 | 21200 | | CY | POROUS BACKFILL WITH GEOTEXTILE FABRIC | |
| 518 | 40000 | | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | |
| 518 | 40012 | | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE | |
| | | | | | |

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 3 | 12 |

| SHEET | TOTAL |
|---|---|
| P.1057 | P.1135 |

CUY-77-11.41 - PART 1

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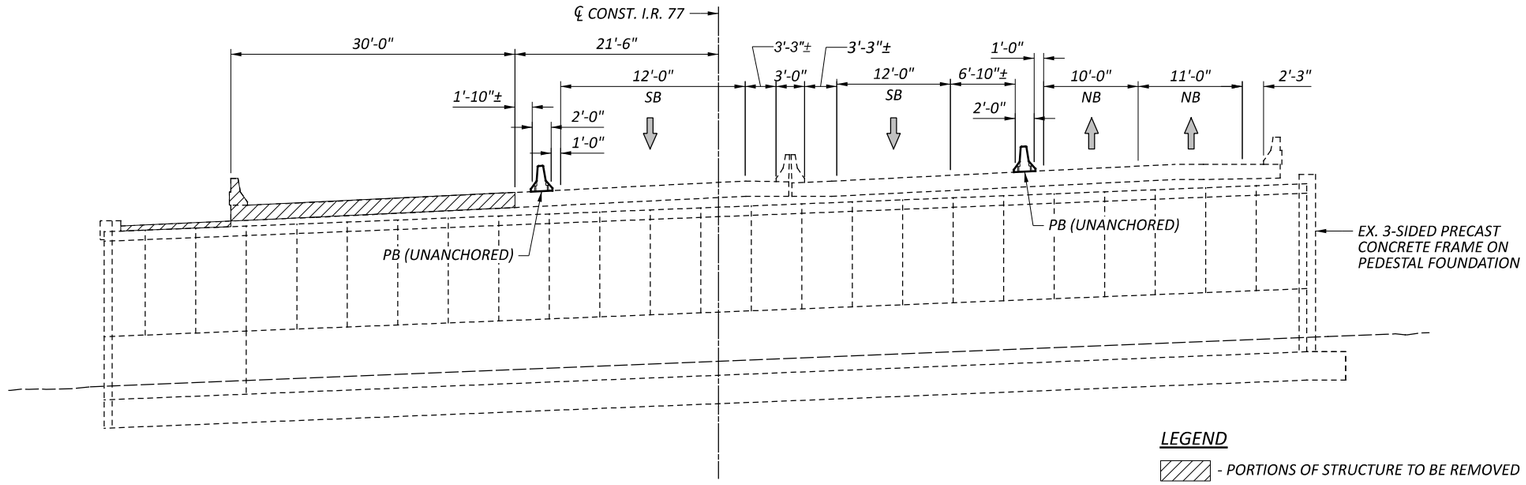
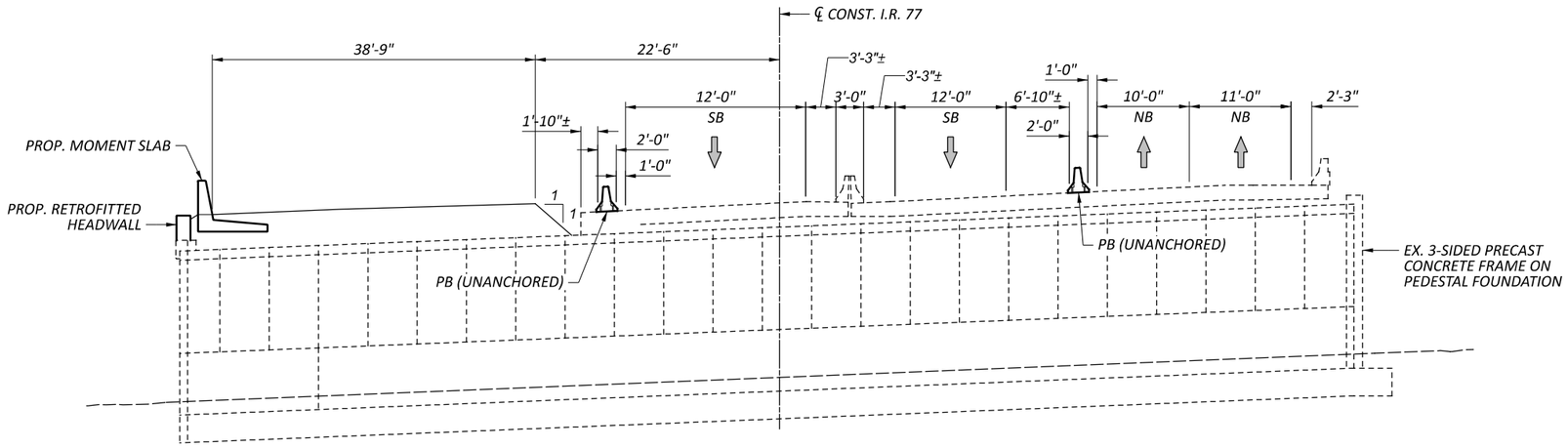
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806610\Sheets\105743_SFN_1806610_SQ001.dgn




PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77




PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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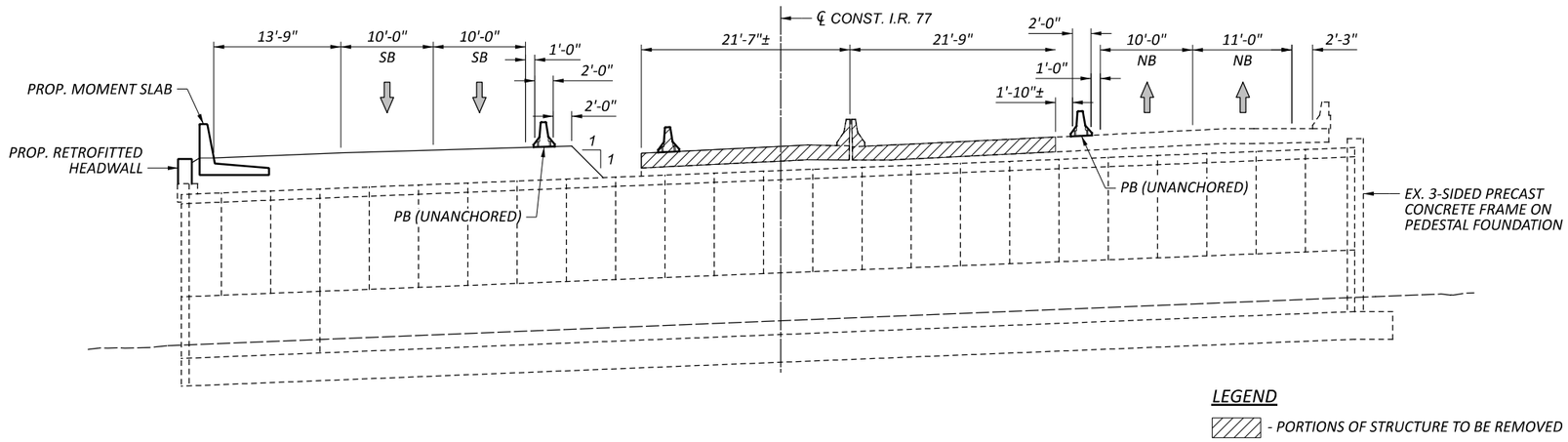
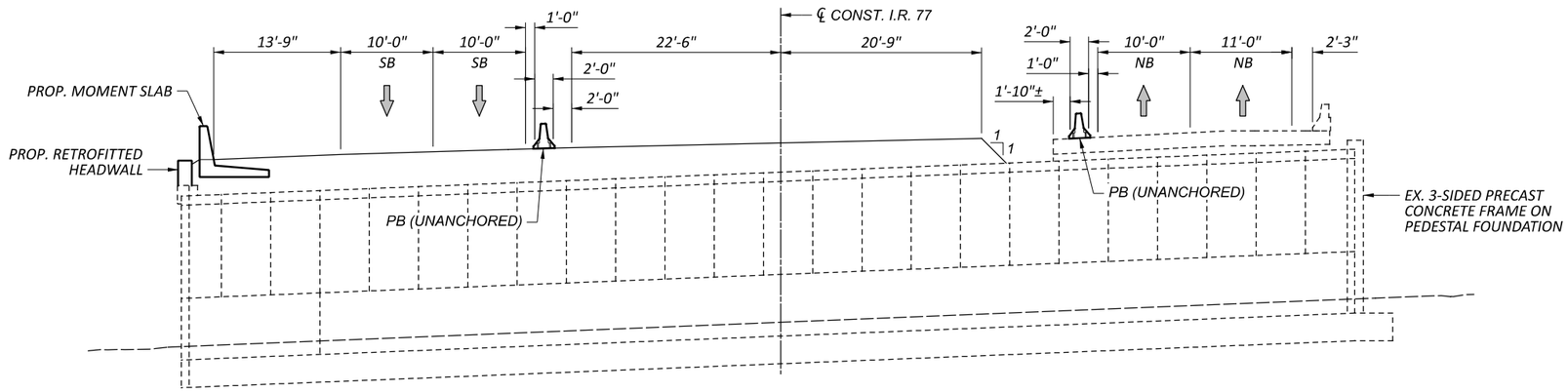
PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

| | |
|---|---|
| SFN | 1806610 |
| DESIGN AGENCY | TRC |
| DESIGNER | LAB |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 4 |
| TOTAL | 12 |
| SHEET | P.1058 |
| TOTAL | P.1135 |




**PHASE 2**

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*




**PHASE 2**

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER CJW 11/17/25

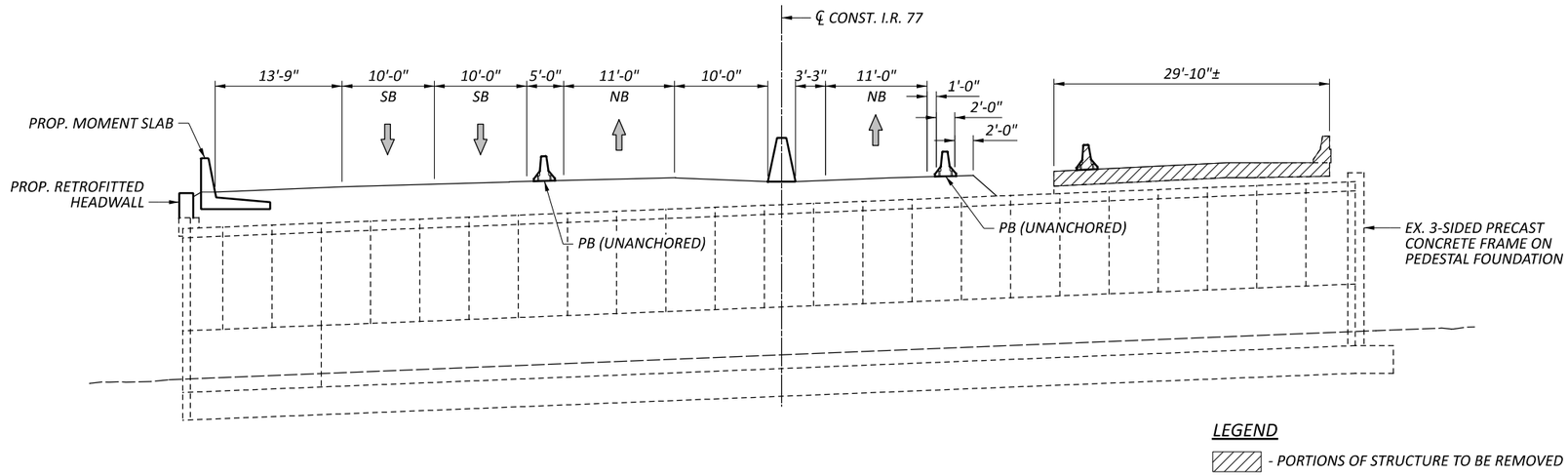
PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 5 | 12 |

| SHEET | TOTAL |
|---|---|
| P.1059 | P.1135 |

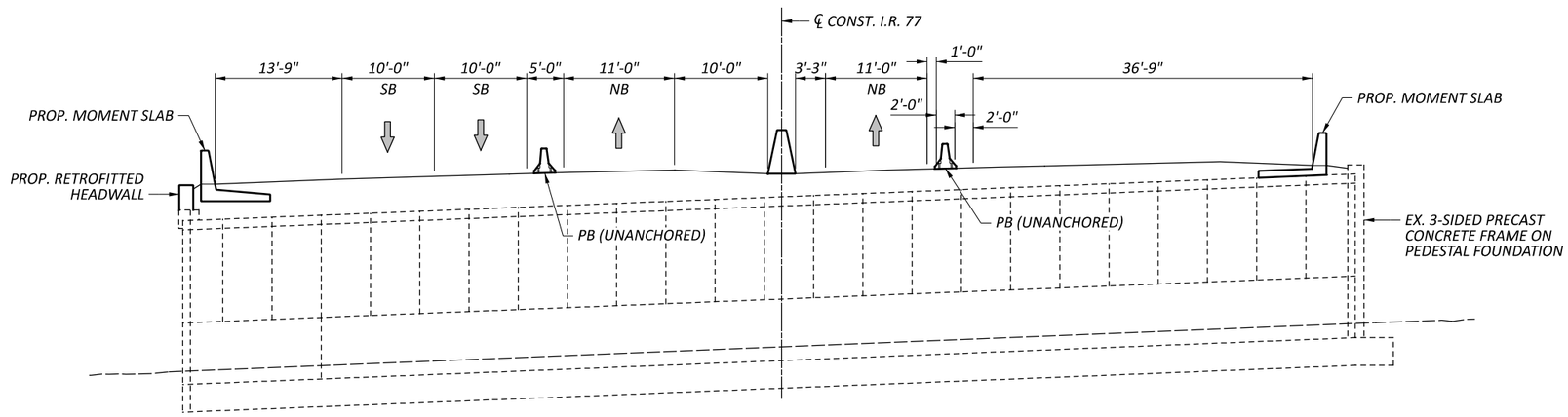
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806610\Sheets\105743_SFN_1806610_SC002.dgn




PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77




PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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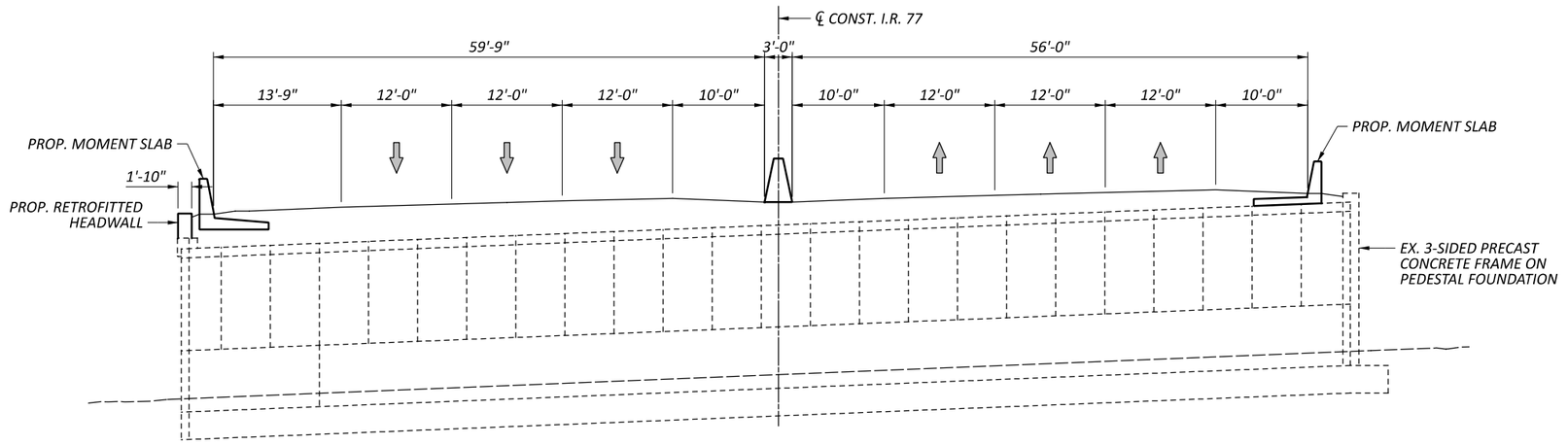
PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

| | |
|---|---|
| SFN | 1806610 |
| DESIGN AGENCY | TRC |
| DESIGNER | LAB |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 6 |
| TOTAL | 12 |
| SHEET | P.1060 |
| TOTAL | P.1135 |




*FINAL*

*DIMENSIONS NORMAL TO ℄ CONST. I.R. 77*

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 7 | 12 |

| SHEET | TOTAL |
|---|---|
| P.1061 | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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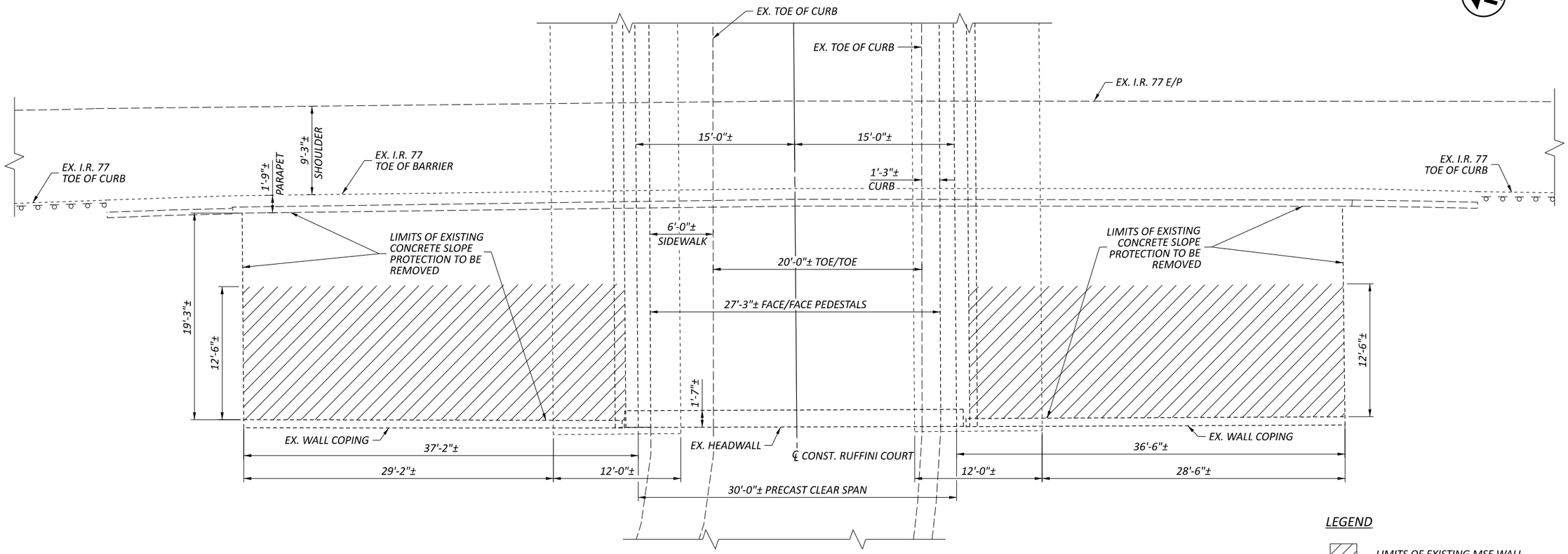
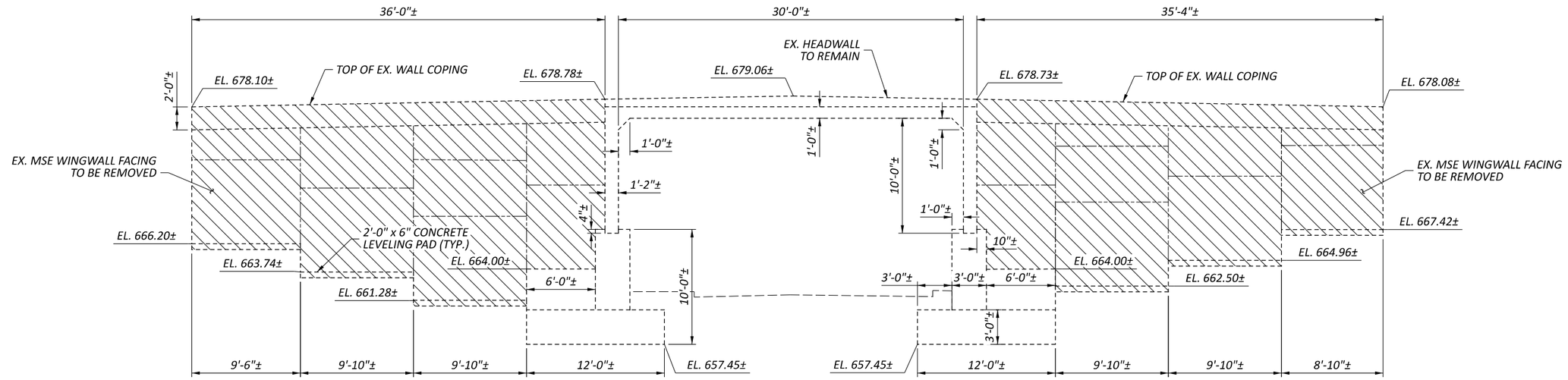



PARTIAL PLAN EXISTING WEST END PORTAL

LEGEND

- LIMITS OF EXISTING MSE WALL REINFORCEMENT AND BACKFILL TO BE REMOVED OR PARTIALLY REMOVED
- EXISTING STRUCTURE AND RETAINING WALL TO BE REMOVED




EXISTING WEST END PORTAL ELEVATION

NOTES:

1. STRUCTURE REMOVAL SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

# REMOVAL DETAILS
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER CJW 11/17/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 8 | 12 |

| SHEET | TOTAL |
|---|---|
| P.1062 | P.1135 |

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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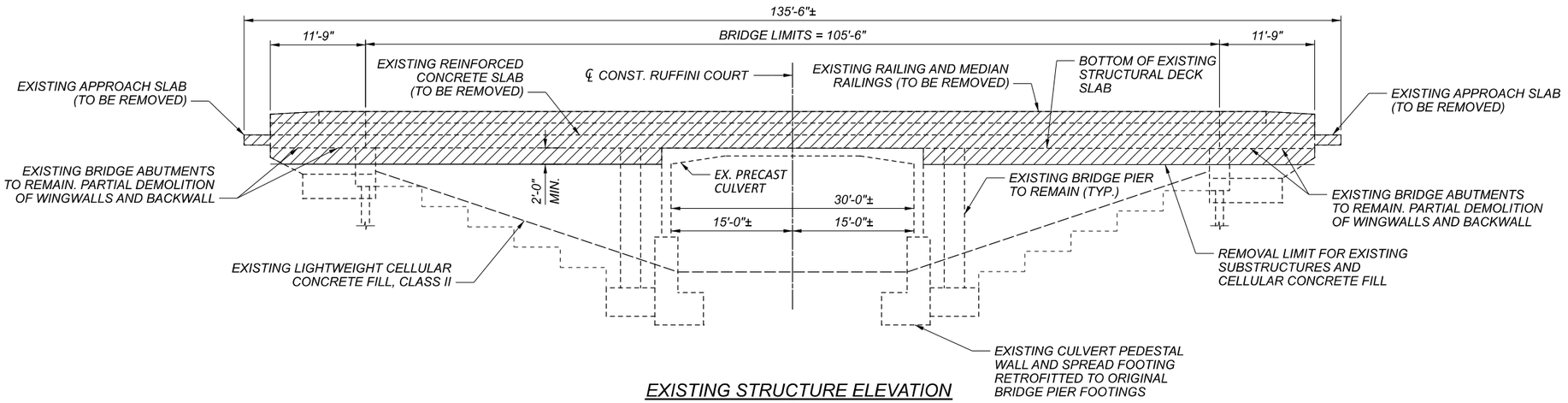
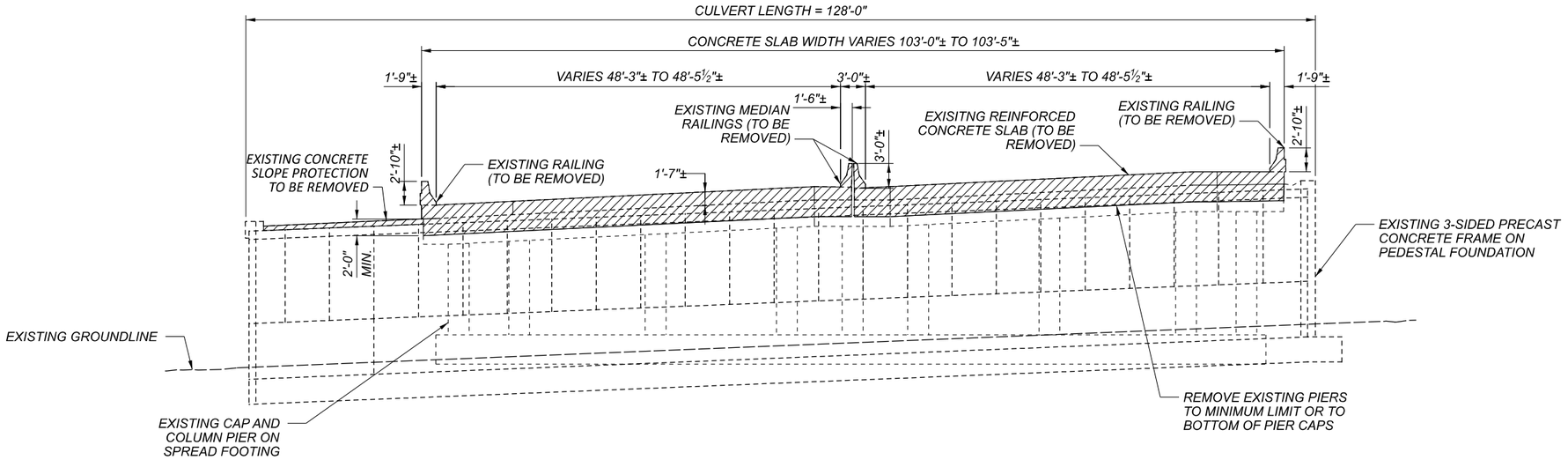



## EXISTING STRUCTURE ELEVATION

LOOKING UP STATION (℄ CONST. RUFFINI COURT)




## EXISTING STRUCTURE PROFILE

LOOKING UP STATION (IR-77)

**NOTE:**

1. FOR LIMITS OF PHASED REMOVAL AND CONSTRUCTION, SEE SHEETS 4/12 THRU 7/12.

# REMOVAL DETAILS
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 9 | 12 |

| SHEET | TOTAL |
|---|---|
| P.1063 | P.1135 |

CUY-77-11.41 - PART 1

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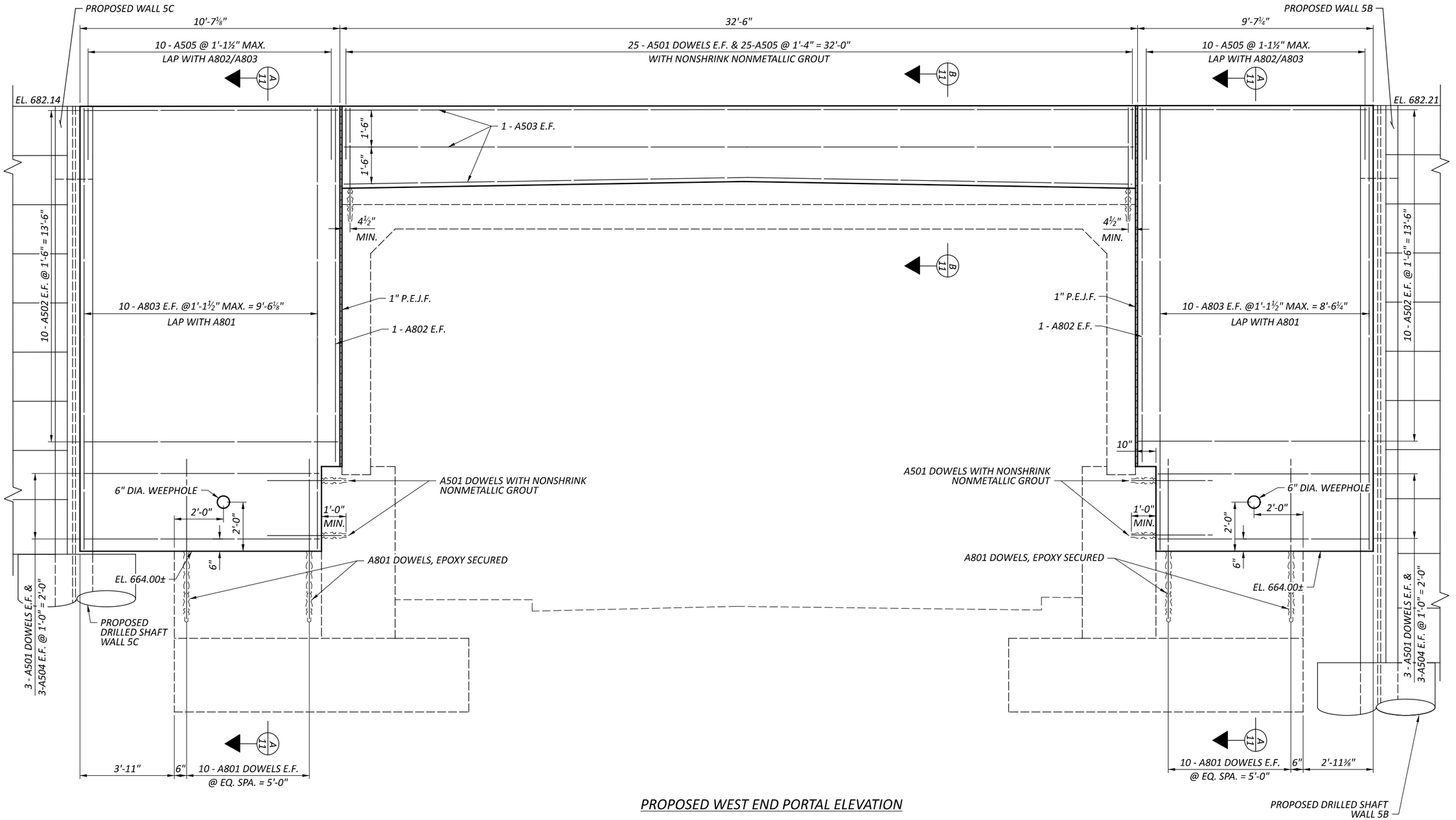


## PROPOSED WEST END PORTAL ELEVATION

### NOTES:

1. ALL DIMENSIONS ARE MEASURED ON THE FRONT FACE OF THE END PORTAL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 11/12.
3. ALL PROPOSED CONCRETE SHALL BE PAID FOR UNDER ITEM 511 QC1 CONCRETE WITH QC/QA, HEADWALL, AS PER PLAN.
4. PROPOSED CONSTRUCTION SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

# END PORTAL DETAILS
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

CUY-77-11.41 - PART 1


MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:27:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SFN 1806610

DESIGN AGENCY TRC

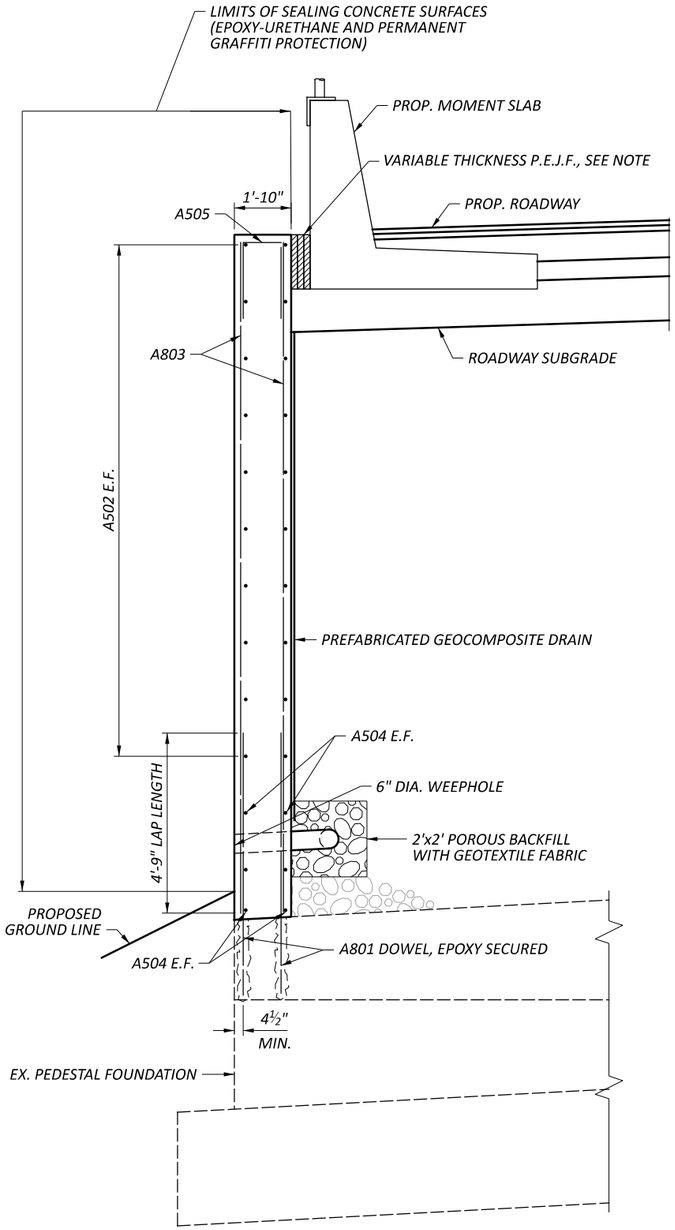
| DESIGNER | CHECKER |
|---|---|
| LAB | CEJ |

REVIEWER CJW 11/17/25

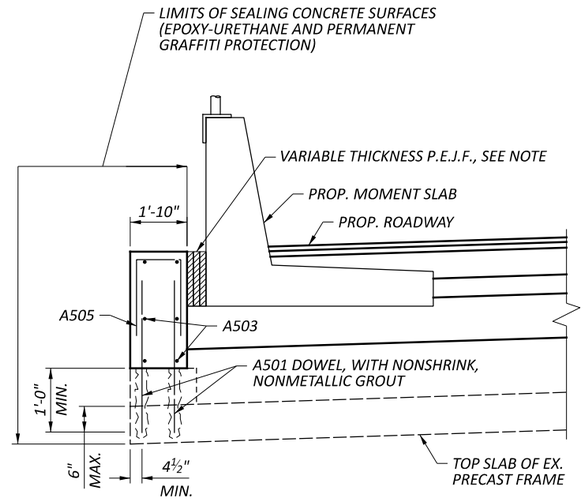
PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 10 | 12 |

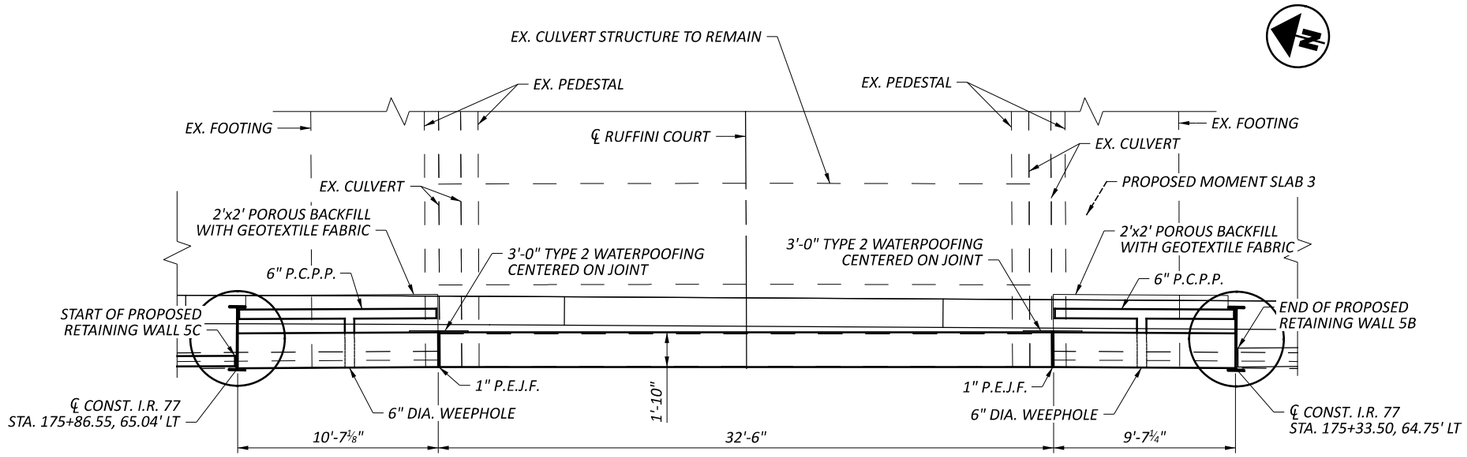
| SHEET | TOTAL |
|---|---|
| P.1065 | P.1135 |




SECTION A-A




SECTION B-B




PROPOSED WEST END PORTAL LOCATION PLAN

## NOTES:

1. DISTANCE BETWEEN BACK FACE OF WALL AND MOMENT SLAB VARIES APPROXIMATELY FROM 2" TO 5". LAYERS OF P.E.J.F. SHALL BE PLACED TO SUFFICIENTLY FILL THE GAP. UNIFORM APPLICATION OF 2" THICK P.E.J.F. IS ASSUMED FOR ESTIMATED QUANTITIES.
2. SEE MOMENT SLAB PLANS, SHEETS 956/1135 THROUGH 964/1135 FOR ADDITIONAL INFORMATION AND PAY ITEMS ASSIGNED TO THEIR CONSTRUCTION.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

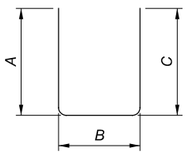
# END PORTAL DETAILS
# BRIDGE NO. CUY-77-1331
# OVER RUFFINI COURT

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:28:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806610\Sheets\105743_SFN_1806610_ST001.dgn

| | |
|---|---|
| SFN | 1806610 |
| DESIGN AGENCY | TRC |
| DESIGNER | LAB |
| CHECKER | CEJ |
| REVIEWER | CJW 11/17/25 |
| PROJECT ID | 105743 |
| SUBSET | 11 |
| TOTAL | 12 |
| SHEET | P.1064 |
| TOTAL | P.1135 |

| MARK | NUMBER TOTAL | LENGTH | WEIGHT | TYPE | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C | D | E | R | INC |
| A501 | 62 | 4'-0" | 259 | STR | | | | | | | |
| A502 | 40 | 9'-8" | 403 | STR | | | | | | | |
| A503 | 6 | 32'-0" | 200 | STR | | | | | | | |
| A504 | 12 | 8'-11" | 112 | STR | | | | | | | |
| A505 | 45 | 5'-3" | 246 | 2 | 2'-0" | 1'-6" | 2'-0" | | | | |
| A801 | 40 | 7'-3" | 774 | STR | | | | | | | |
| A802 | 4 | 13'-9" | 147 | STR | | | | | | | |
| A803 | 40 | 17'-0" | 1816 | STR | | | | | | | |
| TOTAL | | | 3,957 | | | | | | | | |




TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. A801 DOWEL BARS ARE UNCOATED REINFORCING STEEL, ALL OTHER REINFORCING STEEL SHALL BE EPOXY COATED.

REINFORCING STEEL LIST
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 12 | TOTAL 12
SHEET P.1066 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 3:28:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806610\Sheets\105743_SFN_1806610_SL001.dgn

NOTE: CONSTRUCTION LIMITS DO NOT INCLUDE FENCE WORK BEYOND NORMAL GRADING WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL CLEARING AND GRUBBING AS REQUIRED FOR FENCE REMOVAL AND REPLACEMENT WORK. AN ADDITIONAL 10' WIDTH OF EARTH DISTURBED AREA IS INCLUDED IN THE PROJECT EARTH DISTURBED AREA FOR FENCE WORK.

## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. — DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE

EP
STA. 301+37.1 ℄ CONST. A3 RAMP
OFF. 57.0' LT.

LPEC
STA. 304+94.6 ℄ CONST. RAMP A3
OFF. 57.5' LT.

LPEC
STA. 309+41.8 ℄ CONST. RAMP A3
OFF. 64.6' LT.

℄ CONST. RAMP A3

℄ I.R. 77

I.R. 77

RAMP A3

RAMP A4

℄ CONST. RAMP A4

MATCH LINE STA. 86+50.00

IAP
STA. 86+50.0
OFF. 119.1' RT.

GRANT AVENUE

IAP
STA. 400+84.1 ℄ CONST. RAMP A4
OFF. 50.7' RT.

EP
STA. 400+24.2 ℄ CONST. RAMP A4
OFF. 85.3' RT.

GATE
STA. 406+84.71, ℄ CONST. RAMP A4
63.03' RT.

LPEC
STA. 406+06.3 ℄ CONST. RAMP A4
OFF. 65.4' RT.

WHILE THIS GATE IS SPECIFIED ON THE PLANS IT DOES NOT EXCLUDE THE CONTRACTOR FROM INSTALLING GATES IN OTHER LOCATIONS REQUIRED THE SPECIFICATIONS OR PER THE ENGINEER.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 74+00.00 TO STA 86+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1067 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:38:49 PM USER: kperkins
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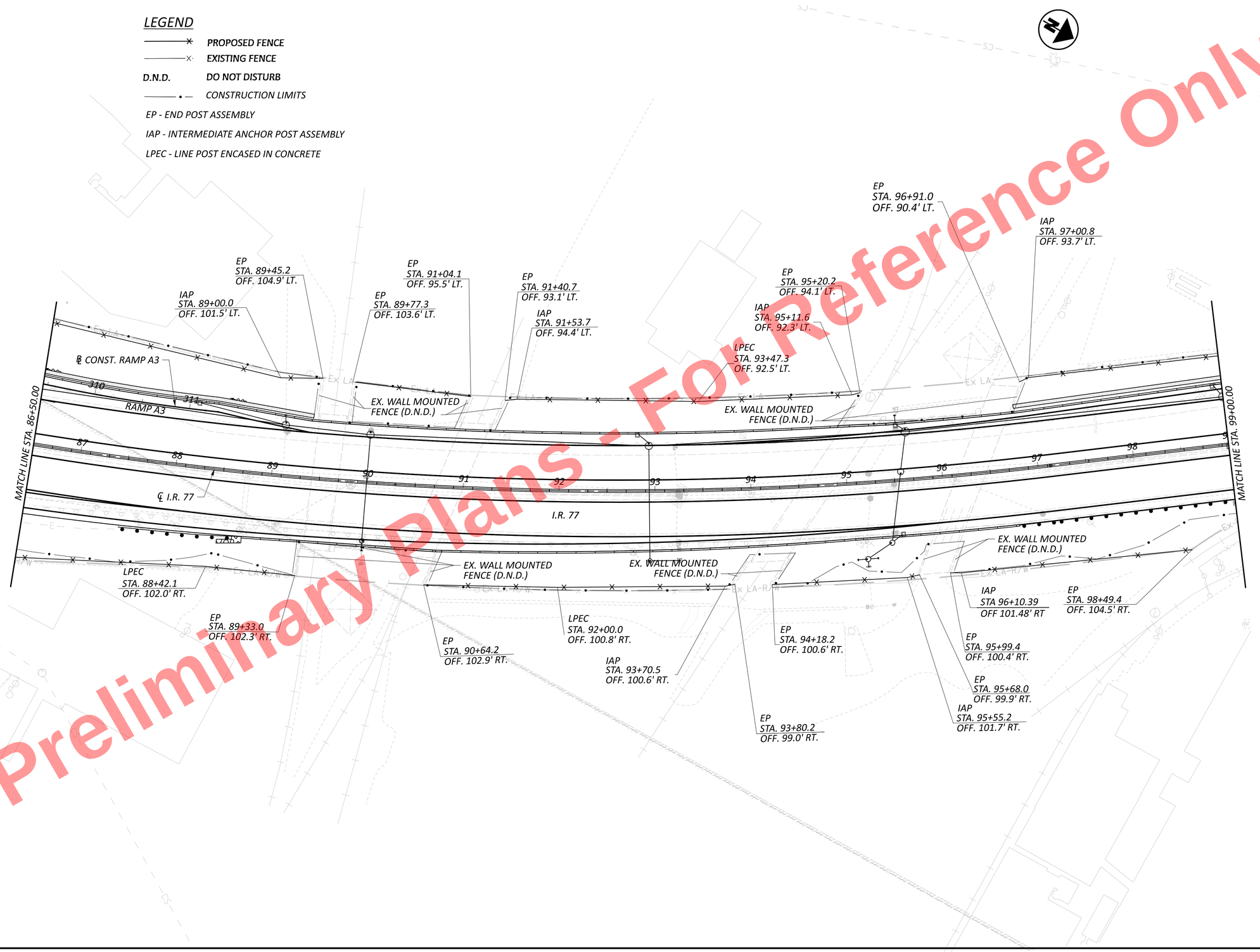
Preliminary Plans - For Reference Only

## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE




HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 86+50.00 TO STA 99+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:38:55 PM USER: kperkins
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DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1068 |
| TOTAL | P.1135 |

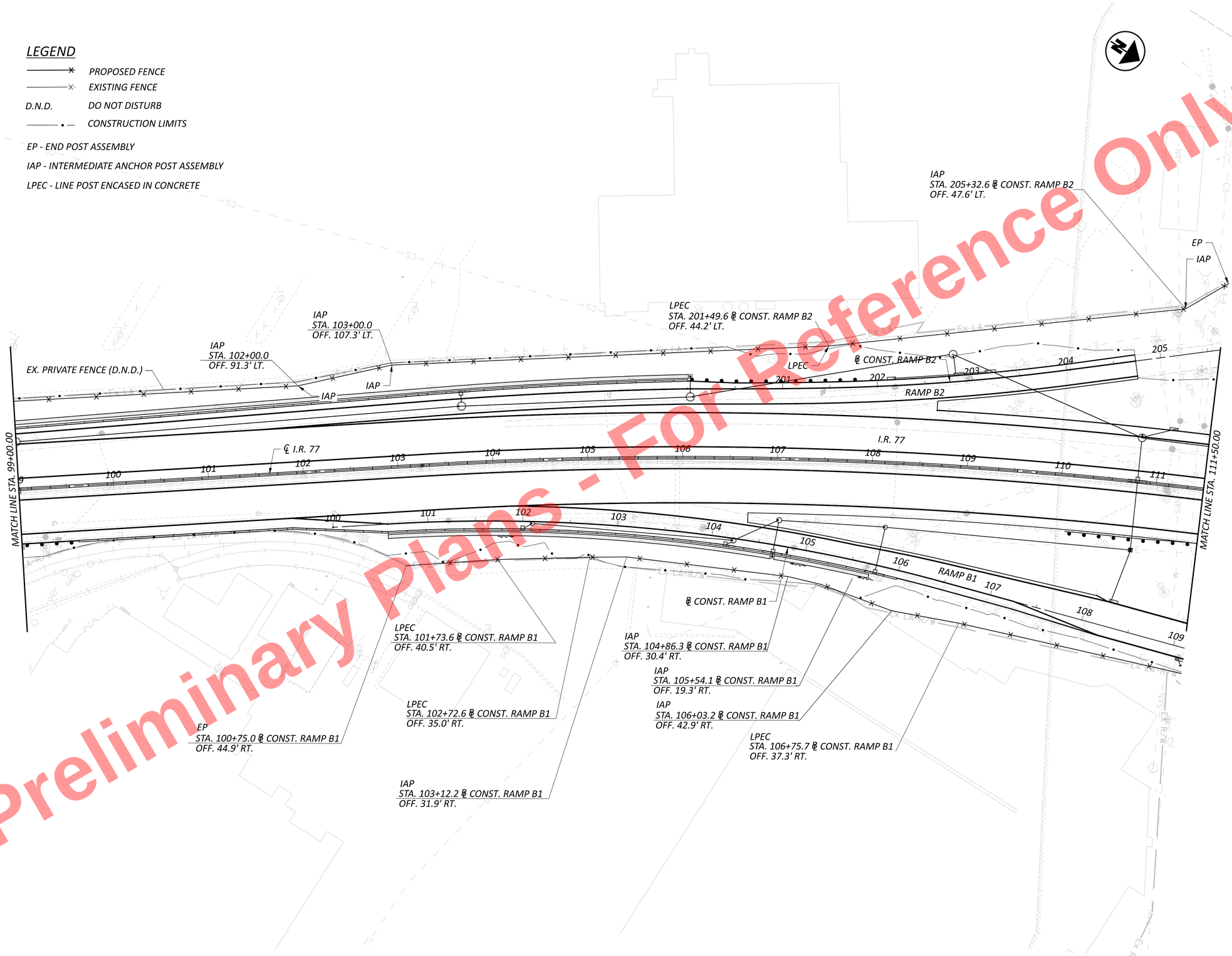
## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 99+00.00 TO STA 111+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1069 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:38:57 PM USER: kperkins
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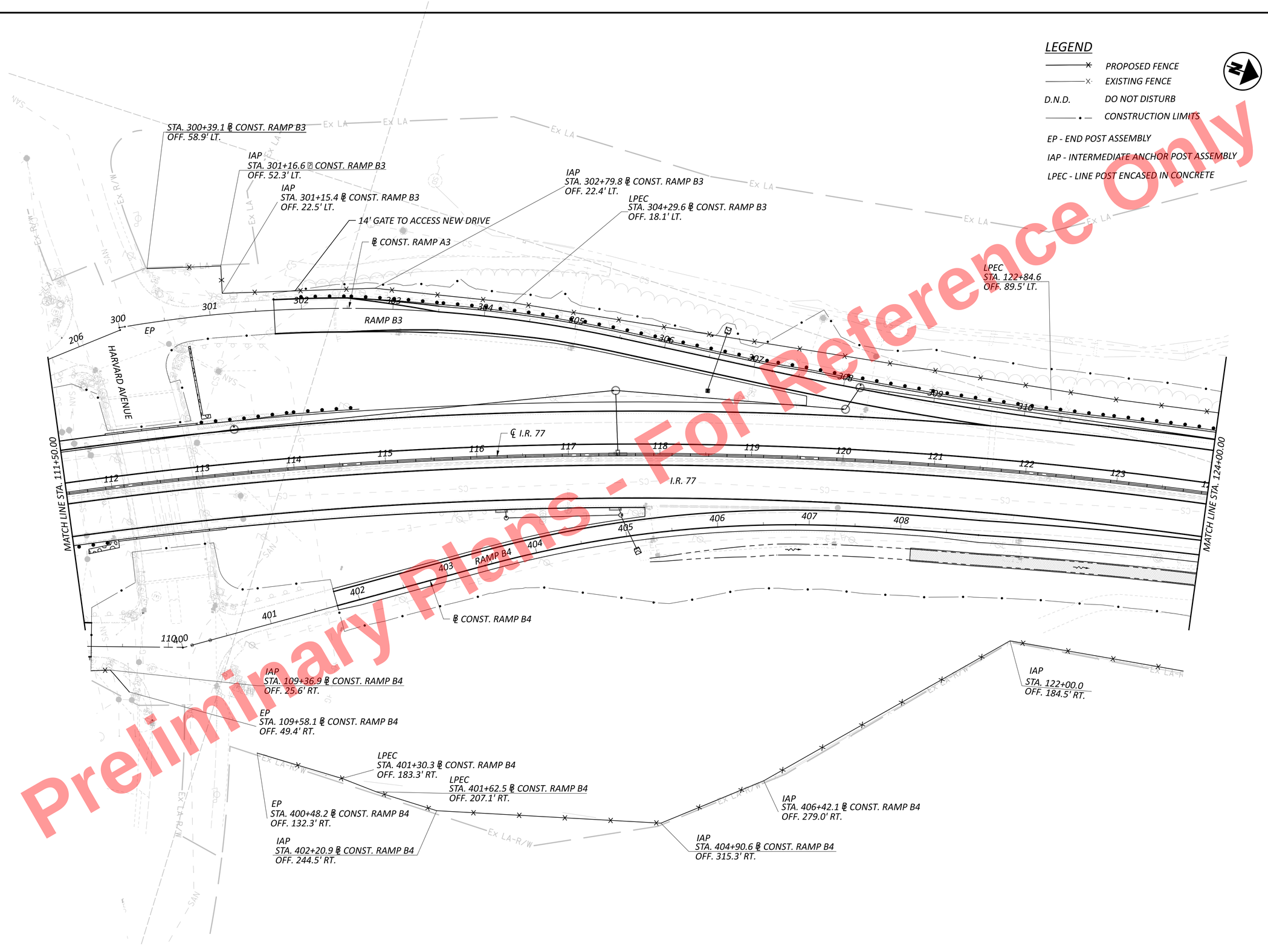


Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 111+50.00 TO STA 124+00.00

DESIGN AGENCY
HNTB

DESIGNER
SJT

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.1070 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:00 PM USER: kperkins
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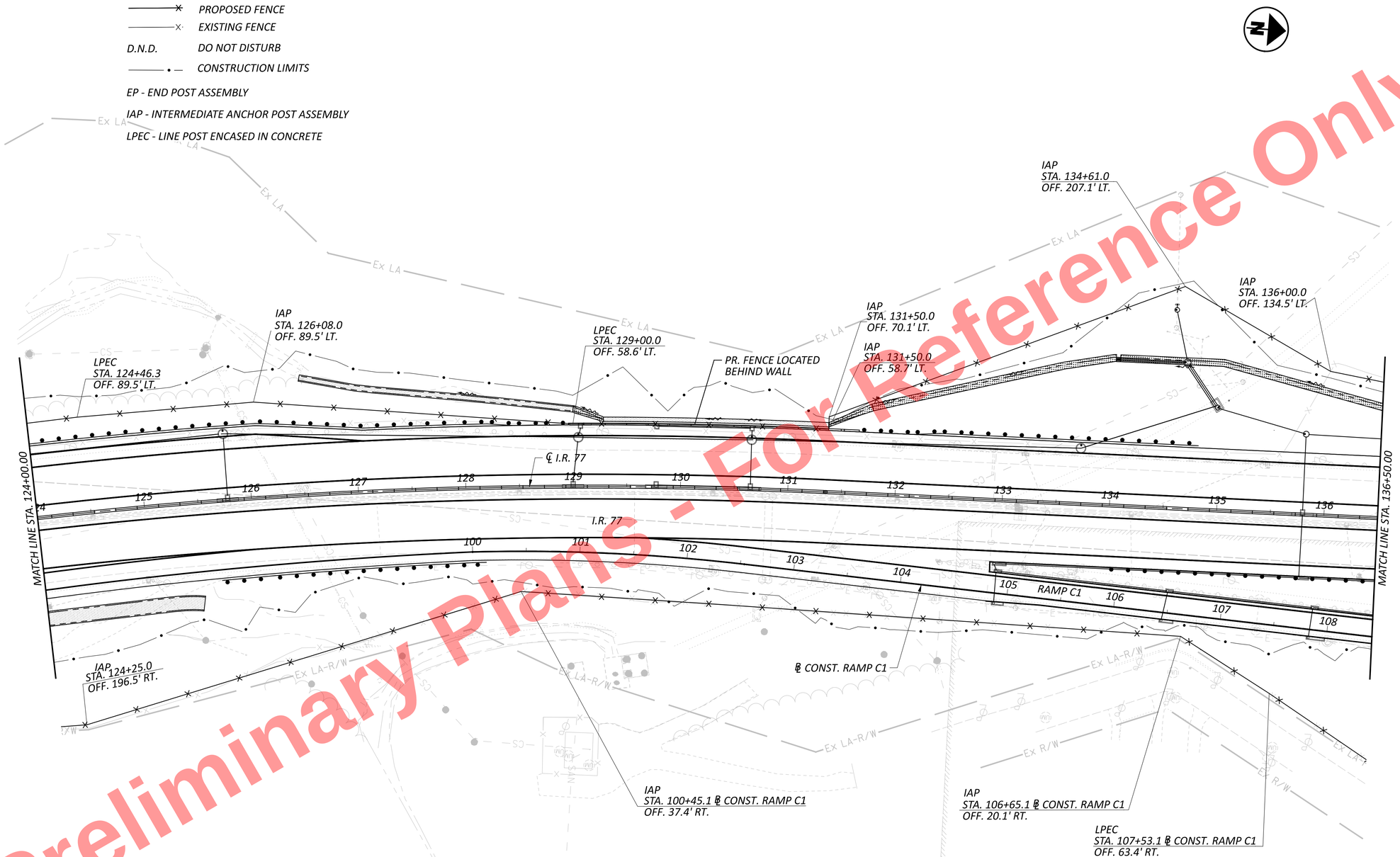
## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 124+00.00 TO STA 136+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:02 PM USER: kperkins
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DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1071 |
| TOTAL | P.1135 |

## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE

REMOVE WALL RAILING AND INSTALL WALL MOUNTED FENCE

EP
STA. 141+21.2
OFF. 118.2' LT.

WOODEN FENCE (D.N.D.)

IAP
STA. 137+00.0
OFF. 119.1' LT.

IAP
STA. 138+90.1
OFF. 141.6' LT.

WALL MOUNTED
FENCE (D.N.D.)

EP
STA. 141+24.7
OFF. 63.5' LT.

IAP
STA. 139+68.2
OFF. 87.2' LT.

EP
STA. 143+01.7
OFF. 93.9' LT.

EP
STA. 141+61.3
OFF. 95.9' LT.

EP
STA. 147+18.7
OFF. 98.2' LT.

℄ I.R. 77

FLEET AVENUE

℄ CONST. RAMP C2

RAMP C2

RAMP C1

RAMP C3

℄ CONST. RAMP C1

EP
STA. 111+82.3 ℄ CONST. RAMP C1
OFF. 36.7' RT.

LPEC
STA. 110+89.8 ℄ CONST. RAMP C1
OFF. 105.7' RT.

IAP
STA. 109+80.0 ℄ CONST. RAMP C1
OFF. 175.4' RT.

℄ CONST. RAMP C3

WALL MOUNTED
FENCE (D.N.D.)

EP
STA. 300+99.0 ℄ CONST. RAMP C3
OFF. 37.2' RT.

MATCH LINE STA. 136+50.00

MATCH LINE STA. 149+00.00

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 136+50.00 TO STA 149+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1072 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:03 PM USER: kperkins
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Preliminary Plans - For Reference Only

## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE

BARRIER MOUNTED FENCE

EP +00

RAMP C2

℄ CONST. RAMP C2

IAP STA. 156+34.4 OFF. 68.7' LT.

IAP STA. 157+34.4 OFF. 58.7' LT.

EP STA. 12+30.0 ℄ CONST. MUP OFF. 9.3' LT. BEGIN 8' TALL CHAIN LINK FENCE, AS PER PLAN

FENCE TO BE CONSTRUCTED PARALLEL TO AND 1' EAST OF LA-R/W

BARRIER MOUNTED FENCE

TMP LA-R/W

MATCH LINE STA. 149+00.00

MATCH LINE STA. 161+50.00

℄ I.R. 77

I.R. 77

IAP STA. 154+83.1 OFF. 80.1' RT.

IAP STA. 155+00.0 OFF. 70.0' RT.

TMP

BARRIER MOUNTED FENCE

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
# STA 149+00.00 TO STA 161+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1073 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:05 PM USER: kperkins
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## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. — DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE

IAP
STA. 16+20.0 ℄ CONST. MUP
OFF. 18.1' LT.

IAP
STA. 16+19.9 ℄ CONST. MUP
OFF. 8.1' LT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

IAP
STA. 23+38.5 ℄ CONST. MUP
OFF. 38.3' LT.

IAP
STA. 23+20.7 ℄ CONST. MUP
OFF. 7.6' LT.

IAP
STA. 22+06.1 ℄ CONST. MUP
OFF. 15.6' LT.

IAP
STA. 22+05.2 ℄ CONST. MUP
OFF. 7.9' LT.

END 8' TALL CHAIN LINK
FENCE, AS PER PLAN

BARRIER MOUNTED FENCE

IAP
STA. 24+52.3 ℄ CONST. MUP
OFF. 31.5' LT.

IAP
STA. 24+52.3 ℄ CONST. MUP
OFF. 30.6' LT.

IAP
STA. 28+51.0 ℄ CONST. MUP
OFF. 24.0' LT.

IAP
STA. 28+31.0 ℄ CONST. MUP
OFF. 6.9' LT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

LPEC
STA. 27+79.9 ℄ CONST. MUP
OFF. 10.9' LT.

MATCH LINE STA. 161+50.00

MATCH LINE STA. 174+00.00

I.R. 77

℄ I.R. 77

BARRIER MOUNTED
FENCE

IAP
STA. 171+00.0
OFF. 58.7' RT.

LPEC
STA. 171+44.3
OFF. 65.5' RT.

LPEC
STA. 173+82.7
OFF. 99.4' RT.

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 161+50.00 TO STA 174+00.00

DESIGN AGENCY
HNTB

DESIGNER
SJT

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.1074 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:06 PM USER: kperkins
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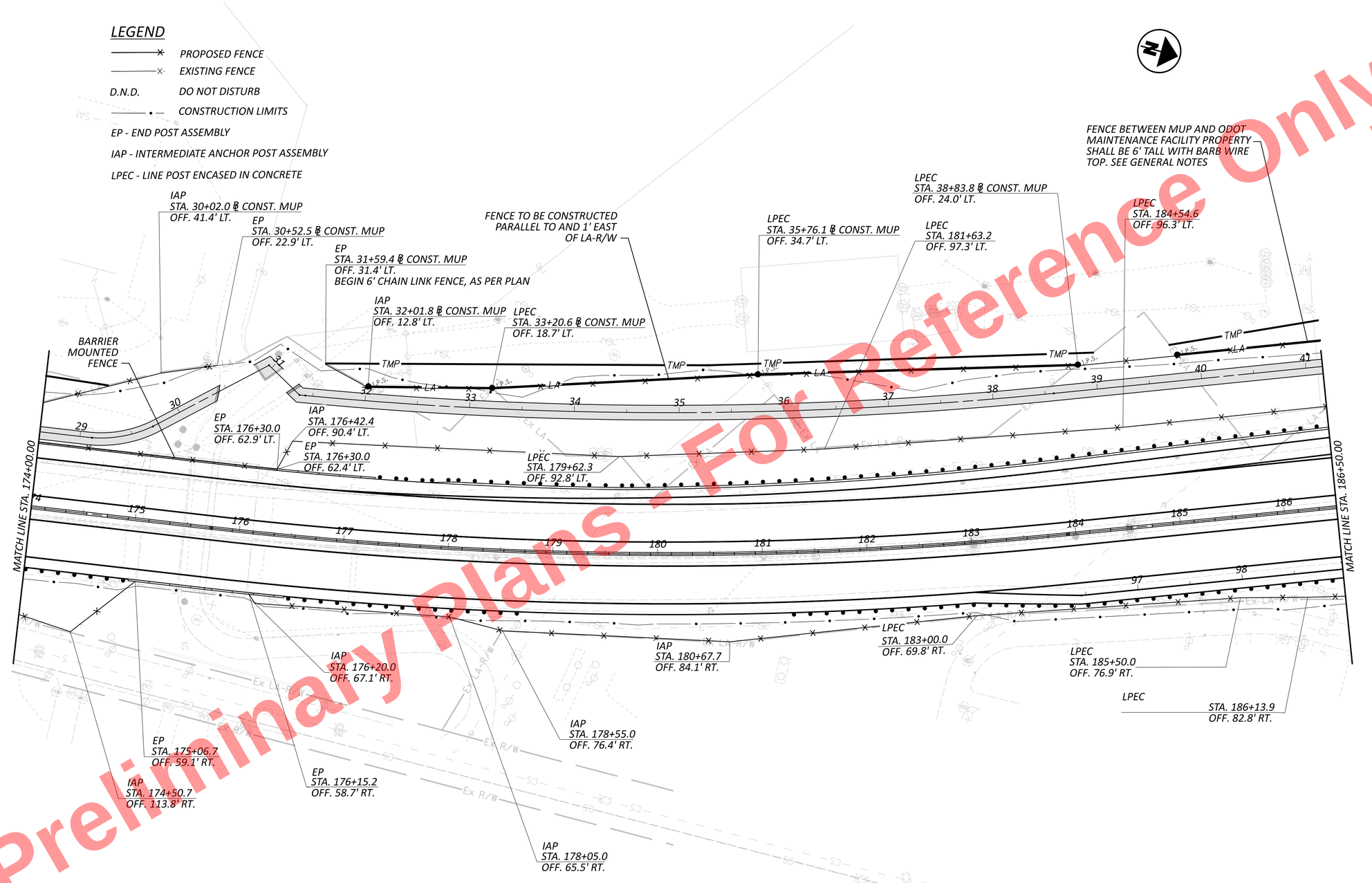
## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. — DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 174+00.00 TO STA 186+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1075 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:07 PM USER: kperkins
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## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE

LPEC
STA. 42+85.3 ℄ CONST. MUP
OFF. 24.0' LT.

LPEC
STA. 43+30.0 ℄ CONST. MUP
OFF. 37.4' RT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

IAP
STA. 46+95.1 ℄ CONST. MUP
OFF. 25.8' LT.

LPEC
STA. 203+59.8 ℄ CONST. MUP
OFF. 28.9' LT.

IAP
STA. 206+72.7 ℄ CONST. RAMP D2
OFF. 18.7' LT.

IAP
STA. 50+58.8 ℄ CONST. MUP
OFF. 19.6' LT.

IAP
STA. 50+65.4 ℄ CONST. MUP
OFF. 58.3' LT.
END 6' CHAIN LINK FENCE,
AS PER PLAN

EP
STA. 52+71.1 ℄ CONST. MUP
OFF. 106.1' LT.

IAP
STA. 52+66.3 ℄ CONST. MUP
OFF. 41.6' LT.

EP
STA. 208+30.2 ℄ CONST. RAMP D2
OFF. 11.4' LT.

EX. FENCE (D.N.D.)

℄ CONST. RAMP D2

RAMP D2

℄ I.R. 77

I.R. 77

℄ CONST. RAMP D1

RAMP D1

MATCH LINE STA. 186+50.00

MATCH LINE STA. 199+00.00

EP
STA. 100+09.8 ℄ CONST. RAMP E1
OFF. 52.5' RT.

IAP
STA. 100+26.4 ℄ CONST. RAMP E1
OFF. 53.2' RT.

LPEC
STA. 187+39.9
OFF. 92.6' RT.

IAP
STA. 188+97.6
OFF. 99.8' RT.

IAP
STA. 188+56.05
OFF. 95.4' RT.

IAP
STA. 190+03.3
OFF. 97.5' RT.

IAP
STA. 197+25.0
OFF. 214.2' RT.

IAP
STA. 100+23.2 ℄ CONST. RAMP E1
OFF. 91.7' RT.

EP
STA. 197+20.1
OFF. 338.4' RT.

PERSHING AVENUE

Ex LA-R/W

Ex R/W

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 186+50.00 TO STA 199+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1076 TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:09 PM USER: kperkins
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Preliminary Plans - For Reference Only

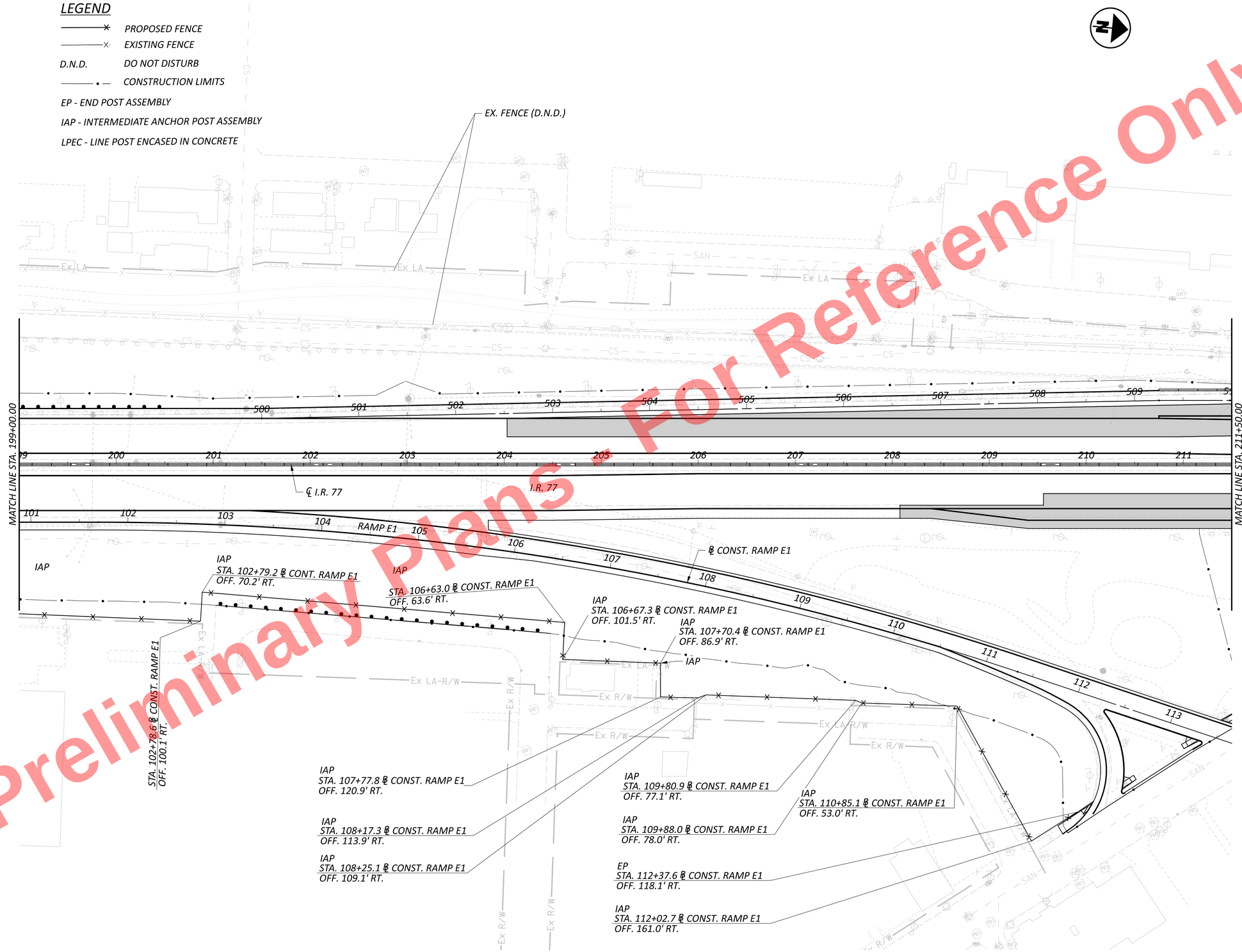
## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE




HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 199+00.00 TO STA 211+50.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1077 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:10 PM USER: kperkins
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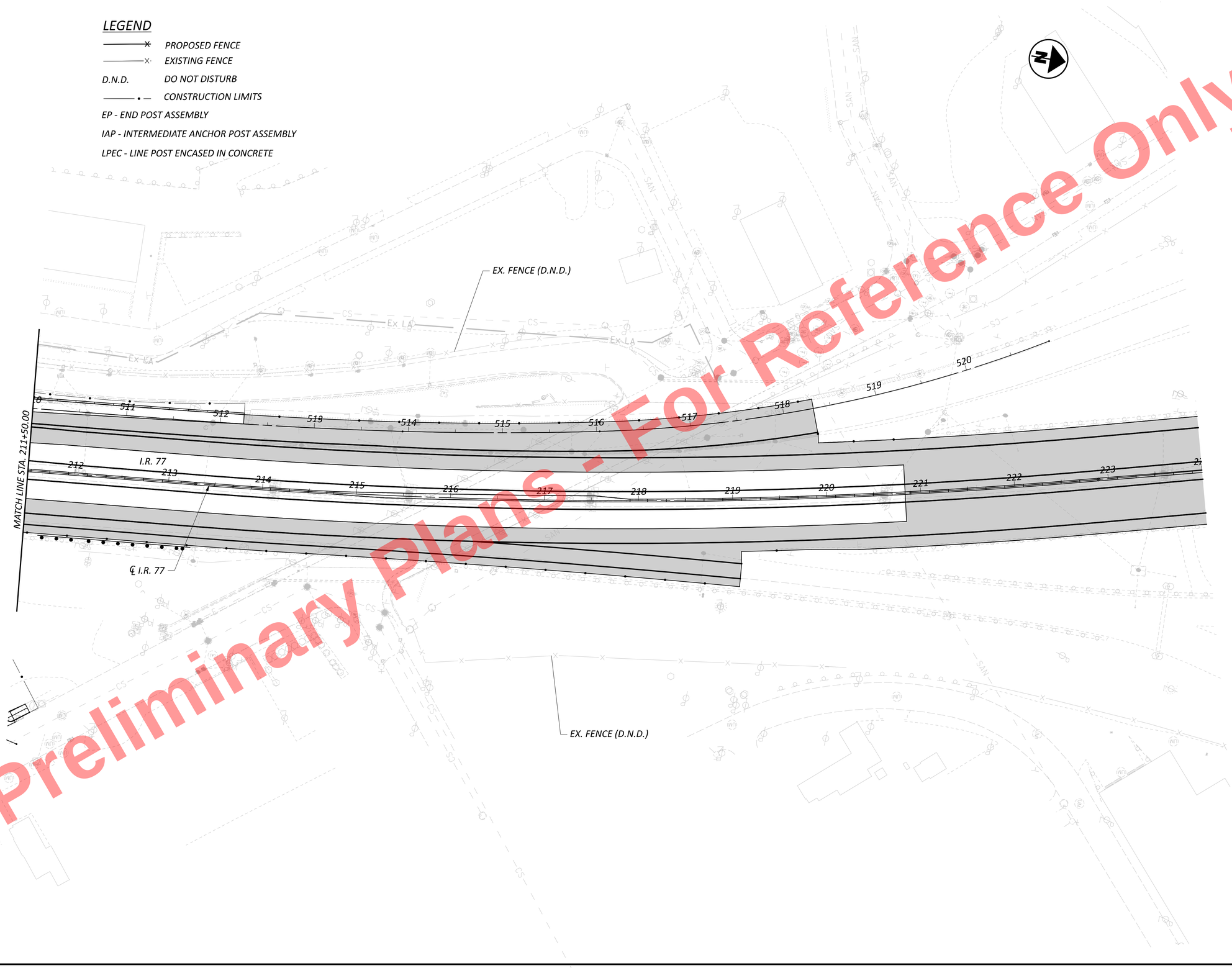
## LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE




Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

# I.R. 77 FENCE PLAN
## STA 211+50.00 TO STA 224+00.00

DESIGN AGENCY
HNTB

| | |
|---|---|
| DESIGNER | SJT |
| REVIEWER | KKP 04/01/22 |
| PROJECT ID | 105743 |
| SHEET | P.1078 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 1:39:12 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_PP001.dgn

## PROJECT DESCRIPTION

IMPROVEMENT OF EXISTING INTERSTATE I-77 BETWEEN GRANT AVENUE AND BROADWAY AVENUE INCLUDING PAVEMENT REPLACEMENT, ROADWAY WIDENING, REPLACEMENT CULVERT-TYPE UNDERPASS TO BE USED AS PEDESTRIAN ACCESS BELOW I-77 AT MORGANA RUN TRAIL, AND NINE RETAINING WALLS ALONG I-77.

## HISTORIC RECORDS

HISTORIC BORING INFORMATION WAS TAKEN FROM SIX PREVIOUS GEOTECHNICAL EXPLORATIONS CONDUCTED AT THE SITE BETWEEN 2001 AND 2014.

## GEOLOGY

THIS SITE IS LOCATED WITHIN THE ERIE LAKE PLAIN OF THE GLACIATED HURON-ERIE LAKE PLAINS SECTION OF THE CENTRAL LOWLAND PHYSIOGRAPHIC PROVINCE. SURFICIAL MATERIALS GENERALLY CONSIST OF UP TO 20 FEET OF GLACIAL TILL SOILS. GLACIAL TILL SOILS ARE GENERALLY AN UNSORTED MIX OF CLAY, SILT, SAND AND GRAVEL. NEAREST TO THE SURFACE, THE TILL SOILS CONSIST OF UP TO 50 PERCENT CLAY AND 8 TO 30 PERCENT SAND. THE TILL SOILS ARE UNDERLAIN BY BEDROCK OF THE UPPER-DEVONIAN-AGE BEDFORD SHALE UNIT. A SMALL UNIT OF SAND AND GRAVEL DEPOSITS, UP TO 10 FEET IN THICKNESS, OVERLYING THE TILL SOILS IS LOCATED ALONG SCHAAF ROAD. THE EXISTING SR-176 ROADWAY RUNS UNDER SCHAAF ROAD THROUGH A CUT INTO THE SURROUNDING TERRAIN THAT IS GREATER THAN 10 FEET DEEP. THEREFORE, THE SAND AND GRAVEL DEPOSITS WERE LIKELY REMOVED DURING CONSTRUCTION OF THE SR-176 ROADWAY AND ARE THEREFORE NOT PRESENT UNDER THE ROADWAY.

## RECONNAISSANCE

I-77 PROVIDES THREE LANES IN EACH DIRECTION IN THE PROJECT AREA WITH AN ASPHALT SHOULDER ON EACH SIDE. THIS SEGMENT OF HIGHWAY IS BOUND BY COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL AREAS WITH MANY ON-RAMPS, RAILROAD OVERPASSES, AND LOCAL ACCESS ROADS. THE EXISTING FREEWAY IS ACCESSED FROM MAJOR SURFACE ROADS IN THE CITY OF CLEVELAND BY VARIOUS ON-RAMPS AND OFF-RAMPS, WHICH EXPAND THE ROADWAY WIDTH OF 4 LANES IN EACH DIRECTION IN AREAS LEADING UP TO OR AWAY FROM INTERCHANGE RAMPS. THE EXISTING PAVEMENT SURFACE ALONG THE I-77 PROJECT ALIGNMENT CONSISTS OF ASPHALT AND APPEARS TO BE IN MODERATE CONDITION, WITH MINOR TO MODERATE CRACKING NOTED. MAJOR UTILITIES ALONG THE PROJECT ALIGNMENT INCLUDE 15 TO 42-INCH STORM SEWERS RUNNING ALONG THE APPROXIMATE CENTERLINE OF THE I-77 FREEWAY; THE 15 TO 42-INCH STORM SEWERS ARE PERIODICALLY CONNECTED WITH LATERAL STORM AND SANITARY SEWER LINES. SEVERAL 12-INCH WATER SUPPLY MAINS CROSS I-77 ROUGHLY PERPENDICULAR TO THE ROADWAY. A 24-INCH GAS MAIN CROSSES UNDER THE I-77 FREEWAY AROUND STATION 214+00. THE NORTHERMOST END OF THE PROJECT MEETS WITH THE SOUTHERN END OF THE I-77 AND I-490 INTERCHANGE IMPROVEMENT PROJECT.

## SUBSURFACE EXPLORATION

AECOM'S SUBSURFACE EXPLORATION AT THE PROJECT SITE INCLUDED 36 SOIL BORINGS (34 SUBGRADE BORINGS AND 2 STRUCTURE BORINGS), NUMBERED B-001-0-18 THROUGH B-039-0-18, EACH DRILLED TO A DEPTH OF 6 FEET BELOW EXISTING SUBGRADE ELEVATION FOR SUBGRADE BORINGS AND TO A DEPTH OF 50 FEET BELOW GRADE FOR STRUCTURE BORINGS. BORINGS WERE LOCATED IN THE FIELD BY AN AECOM REPRESENTATIVE, PRIOR TO BEGINNING THE SUBSURFACE EXPLORATION. PRIOR TO THE START OF DRILLING ACTIVITIES, THE OHIO UTILITIES PROTECTION SERVICE WAS NOTIFIED, AND BORING LOCATIONS WERE VERIFIED AS CLEAR OF UTILITY CONFLICTS. AFTER COMPLETION OF THE SUBSURFACE EXPLORATION, BORING LOCATIONS WERE SURVEYED BY AECOM.

ALL BORINGS BUT B-036-0-18 WERE DRILLED USING A SIMCO 2800 TRUCK-MOUNTED DRILL RIG FROM MARCH 11-27, 2019. BORING B-036-0-18 WAS DRILLED USING A DEIDRICH D-25 TRAILER-MOUNTED DRILL RIG ON MARCH 27, 2019. ALL BORINGS WERE DRILLED USING EITHER A 4.0-INCH OUTER-DIAMETER SOLID-STEM AUGER OR A 2.25-INCH INNER DIAMETER HOLLOW-STEM AUGER. DURING DRILLING ACTIVITIES, REPRESENTATIVE SOIL SAMPLES WERE COLLECTED FROM THE BORINGS FOR CLASSIFICATION AND/OR TESTING. THE SAMPPLES WERE OBTAINED BY STANDARD PENETRATION TESTING (SPT) WITH A SPLIT-SPOON, IN GENERAL ACCORDANCE WITH THE SGE AND ASTM D 1586. A 140-POUND AUTOMATIC HAMMER FALLING 30-INCHES WAS USED FOR SAMPLING. THE HAMMER FOR THE DEIDRICH D-25 DRILL RIG WAS CALIBRATED ON NOVEMBER 13, 2018 TO AN ENERGY RATIO OF 87.4%. THE HAMMER FOR THE SIMCO 2800 HS (HT) DRILL RIG WAS CALIBRATED ON NOVEMBER 13, 2018 TO AN ENERGY RATIO OF 84.5%. GROUNDWATER WAS MONITORED DURING THE DRILLING ACTIVITIES AND MEASUREMENTS WERE TAKEN DURING AND AFTER DRILLING.

TWENTY-NINE (29) ADDITIONAL SOIL STRUCTURE BORINGS, B-040-0-20 THROUGH B-044-0-20, B-046-0-20, B-048-0-20 THROUGH B-056-0-20, B-059-0-20 THROUGH B-068-0-20 AND B-070-0-20 THROUGH B-073-0-20, WERE PERFORMED. EACH OF THE TWO CULVERT UNDERPASS BORINGS (BORINGS B-070-0-20 AND B-071-0-20) WERE DRILLED TO 110 FEET BELOW GROUND SURFACE (BGS), WHEREAS THE REMAINING BORINGS FOR THE WALLS, SLOPES AND DRAINAGE FACILITIES, WERE DRILLED TO DEPTHS RANGING FROM 15 TO 60 BGS. THE BORINGS WERE DRILLED USING CME 45 TRACK-MOUNTED AND CME 550X ATV DRILL RIGS BETWEEN 12/2/2021 AND 12/17/2021. ALL BORINGS WERE DRILLED USING A 3¼ INCH INNER-DIAMETER HOLLOW STEM AUGER TO ADVANCE THE HOLE BETWEEN SAMPLING POINTS. THE SAMPLES WERE OBTAINED BY PERFORMING STANDARD PENETRATION TESTING WITH A SPLIT-SPOON, IN GENERAL ACCORDANCE WITH ODOT SGE AND ASTM D 1586. IN THIS TEST, THE SPLIT SPOON SAMPLER IS DRIVEN INTO THE SOIL USING A 140-POUND AUTOMATIC HAMMER FALLING 30-INCHES. THE HAMMER FOR THE CME 45 DRILL RIG HAD AN ENERGY RATING OF 89.3% BASED ON CALIBRATION DATED 8/5/2021, WHEREAS THE HAMMER FOR THE CME 550X RIG HAD AN ENERGY RATING OF 85.6% BASED ON THE CALIBRATION DATED 10/19/2021.

## EXPLORATION FINDINGS

THE LOGS OF SOIL BORINGS SHOW GENERAL SIMILARITY AND UNIFORMITY OF THE SUBSURFACE PROFILES. BASED ON THE ROADWAY BORINGS, THE PREDOMINANT SOIL TYPES ALONG THE PROPOSED SUBGRADE ALIGNMENT GENERALLY INCLUDED GRANULAR FILL (ODOT SOIL TYPES A-1-a, A-1-b, A-3 AND A-3a), FINE-GRAINED FILL (A-4a AND A-4b), NATURAL SAND AND GRAVEL (A-1-a, A-1-b, A-3 AND A-3a), AND NATURAL FINE-GRAINED SOILS (A-4a, A-4b, AND A-6a). NON-COHESIVE SOILS WERE GENERALLY MEDIUM DENSE TO DENSE IN COMPACTNESS AND COHESIVE FINE-GRAINED SOILS WERE GENERALLY MEDIUM STIFF TO HARD IN CONSISTENCY. SOME LOOSE AND MEDIUM STIFF AREAS OF SUBGRADE WERE IDENTIFIED IN THE BORINGS, WHICH MAY REQUIRE IMPROVEMENTS. A LARGE PORTION OF THE SUBGRADE CONSISTS OF A-4B SOILS WHICH WILL REQUIRE IMPROVEMENTS PER ODOT GEOTECHNICAL BULLETIN 1 (GB-1) GEOTECHNICAL DESIGN MANUAL (GDM) SECTION 600. TWO SOILS SAMPLES FROM EACH BORING WERE TESTED FOR SULFATE CONTENT IN ACCORDANCE WITH ODOT SS1122. ALL BUT TWO SAMPLES HAD SULFATE CONTENTS BELOW 5,000 PPM, EXCEPT FOR BORING B-033-0-18 IN WHICH BOTH SAMPLES TESTED AND SULFATE CONTENTS BETWEEN 6,000 AND 6,600 PPM.

BASED ON THE STRUCTURE BORINGS, THE SUBSURFACE MATERIALS ARE PERDOMINANTLY GRANULAR COMPOSED OF SAND (A-3 AND A-3a), SANDY OR CLAYEY SILT (A-4a), SILT (A-4b) IN ADDITION TO THE SILTY SAND AND GRAVEL MIXTURES OF A-2-4 TYPE AND GRAVEL WITH STONE FRAGMENTS AND SAND (A-1-a AND A-1-b) AT SHALLOW DEPTHS. LAYERS OF SILT AND CLAY (A-6a) WERE ENCOUNTERED IN B-046-0-20.

## LEGEND

| DESCRIPTION | ODOT CLASS | CLASSIFIED MECH./VISUAL | |
|---|---|---|---|
| GRAVEL AND/OR STONE FRAGMENTS | A-1-a | 17 | 13 |
| GRAVEL AND/OR STONE FRAGMENTS WITH SAND | A-1-b | 28 | 53 |
| GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT | A-2-4 | 4 | 19 |
| FINE SAND | A-3 | 5 | 17 |
| COURSE & FINE SAND | A-3-a | 15 | 25 |
| SANDY SILT | A-4-a | 29 | 107 |
| SILT | A-4-b | 70 | 123 |
| SILT & CLAY | A-6-a | 6 | 11 |
| SILTY CLAY | A-6-b | 1 | 1 |
| CLAY | A-7-6 | | |
| | TOTAL | 175 | 369 |
| PAVEMENT OR BASE = X = APPROXIMATE THICKNESS | VISUAL | | |
| SOD AND TOPSOIL = X = APPROXIMATE THICKNESS | VISUAL | | |

BORING LOCATION - PLAN VIEW.

BORING LOCATION - HISTORIC

DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC — INDICATES WATER CONTENT IN PERCENT.

$N_{60}$ — INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

X/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

X/Y/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X" = NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED)
Y/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

X/Y/Z — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y= NUMBER OF BLOWS FOR SECOND 6 INCHES.
Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.

W—— INDICATES FREE WATER ELEVATION.

● INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.

* INDICATES A SAMPLE TAKEN WITHIN 3 FT OF PROPOSED GRADE.

SS INDICATES A SPLIT SPOON SAMPLE.

ST INDICATES A SHELBY TUBE SAMPLE.

NP INDICATES A NON-PLASTIC SAMPLE.

## SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, REVISION DATED JULY 17, 2019.

## AVAILABLE INFORMATION

THE SOIL AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.




LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

## PARTICLE SIZE DEFINITIONS

| 12" | 3" | 2.0 mm | 0.42 mm | 0.074 mm | 0.005 mm |
|---|---|---|---|---|---|
| BOULDERS | COBBLES | GRAVEL | COARSE SAND | FINE SAND | SILT | CLAY |
| | | No. 10 SIEVE | No. 40 SIEVE | No. 200 SIEVE | | |

**RECON. -** SDM 11/15/2021

**DRILLING -** TRC 12/1-12/17/2021 / AECOM 3/11-3/27/2019

**DRAWN -** NMC 9/9/2022

**REVIEWED -** SDM 11/18/2025

GEOTECHNICAL PROFILES - ROADWAY & STRUCTURES

DESIGN AGENCY TRC

DESIGNER NMC

REVIEWER SDM 11/18/25

PROJECT ID 105743

SUBSET 1 | TOTAL 57

SHEET P.1079 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:52:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZC001.dgn

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

| | | | | | | | SAMPLE | | % | tsf | % | % | % | % | % | | | | % | ODOT | ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLOR. ID | STATION, | OFF | SET | LAT/NORTH | LONG/EAST | FROM-TO | ID | N60 | REC | HP | GR | CS | FS | SILT | CLAY | LL | PL | PI | WC | CLASS (GI) | SO4 |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 01.50-02.80 | SS-1A | 35 | 28 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (VISUAL) | <100 |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 02.80-03.00 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 03.00-03.20 | SS-2A | 11 | 83 | - | - | - | - | - | - | - | - | - | 7 | A-4a (VISUAL) | 130 |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 03.20-04.25 | SS-2B | - | - | - | - | - | - | - | - | - | - | - | - | A-3 (VISUAL) | - |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 04.25-04.50 | SS-2C | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 04.50-05.65 | SS-3A | 10 | 78 | 0.75 | 0 | 1 | 2 | 65 | 32 | 31 | 21 | 10 | 26 | A-4b (8) | - |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 05.65-06.00 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | - | A-3 (VISUAL) | - |
| B-001-0-18 | 75+42, | 38' | RT. | 41.43881 | -81.64963 | 06.00-07.50 | SS-4 | 15 | 56 | - | 46 | 42 | 8 | 4 | 0 | NP | NP | NP | 6 | A-1-b (0) | - |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 01.60-01.90 | SS-1A | 18 | 72 | - | 59 | 19 | 13 | 9 | 0 | NP | NP | NP | 6 | A-1-a (0) | - |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 01.90-02.10 | SS-1B | - | - | 1 | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 02.10-03.10 | SS-1C | - | - | - | - | - | - | - | - | - | - | - | 8 | A-1-b (VISUAL) | 310 |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 03.10-04.60 | SS-2 | 23 | 72 | - | 22 | 62 | 7 | 8 | 1 | NP | NP | NP | 5 | A-1-b (0) | 230 |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 04.60-06.10 | SS-3 | 25 | 83 | - | 40 | 50 | 7 | 3 | 0 | NP | NP | NP | 5 | A-1-b (0) | - |
| B-002-0-18 | 78+71, | 39' | LT. | 41.43881 | -81.64963 | 06.10-07.60 | SS-4 | 23 | 67 | - | - | - | - | - | - | - | - | - | 9 | A-1-b (VISUAL) | - |
| B-003-0-18 | 83+15, | 39' | RT. | 41.44091 | -81.65014 | 01.50-03.00 | SS-1 | 38 | 83 | - | - | - | - | - | - | - | - | - | 5 | A-1-b (VISUAL) | 240 |
| B-003-0-18 | 83+15, | 39' | RT. | 41.44091 | -81.65014 | 03.00-04.50 | SS-2 | 35 | 61 | - | 13 | 57 | 22 | 8 | 0 | NP | NP | NP | 5 | A-1-b (0) | <100 |
| B-003-0-18 | 83+15, | 39' | RT. | 41.44091 | -81.65014 | 04.50-06.00 | SS-3 | 10 | 61 | - | - | - | - | - | - | - | - | - | 11 | A-1-a (VISUAL) | - |
| B-003-0-18 | 83+15, | 39' | RT. | 41.44091 | -81.65014 | 06.00-07.50 | SS-4 | 8 | 61 | - | 67 | 21 | 7 | 4 | 1 | NP | NP | NP | 11 | A-1-a (0) | - |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 01.40-01.60 | SS-1A | 13 | 89 | - | - | - | - | - | - | - | - | - | 16 | A-3 (VISUAL) | - |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 01.60-01.90 | SS-1B | - | - | 2.5 | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 01.90-02.90 | SS-1C | - | - | - | - | - | - | - | - | - | - | - | 5 | A-1-b (VISUAL) | <100 |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 03.00-04.50 | SS-2 | 18 | 89 | - | 3 | 53 | 38 | 4 | 2 | NP | NP | NP | 7 | A-1-b (0) | 260 |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 04.50-06.00 | SS-3 | 21 | 83 | - | - | - | - | - | - | - | - | - | 5 | A-1-a (VISUAL) | - |
| B-004-0-18 | 87+04, | 52' | LT. | 41.44189 | -81.65086 | 06.00-07.50 | SS-4 | 23 | 83 | - | 56 | 36 | 4 | 4 | 0 | NP | NP | NP | 5 | A-1-a (0) | - |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 02.00-03.10 | SS-1B | - | - | - | 53 | 17 | 14 | 16 | 0 | NP | NP | NP | 7 | A-1-b (0) | 200 |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 03.10-03.30 | SS-2A | 15 | 83 | - | - | - | - | - | - | - | - | - | - | A-1-b (VISUAL) | - |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 03.30-04.00 | SS-2B | - | - | 1.25 | 9 | 12 | 11 | 54 | 14 | 26 | 17 | 9 | 15 | A-4b (7) | 460 |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 04.00-04.60 | SS-2C | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 04.60-06.10 | SS-3 | 10 | 61 | - | 2 | 4 | 10 | 74 | 10 | NP | NP | NP | 20 | A-4b (8) | - |
| B-005-0-18 | 91+14, | 39' | RT. | 41.44292 | -81.65131 | 06.10-07.60 | SS-4 | 8 | 78 | - | - | - | - | - | - | - | - | - | 28 | A-4b (VISUAL) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 01.20-02.00 | SS-1A | 23 | 89 | - | 59 | 17 | 12 | 11 | 1 | NP | NP | NP | 7 | A-1-a (0) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 02.00-02.70 | SS-1B | - | - | 4.5+ | - | - | - | - | - | - | - | - | 11 | A-4a (VISUAL) | 530 |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 03.00-03.40 | SS-2A | 24 | 83 | 3 | 0 | 2 | 1 | 62 | 35 | 25 | 18 | 7 | 20 | A-4b (8) | 520 |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 03.40-03.70 | SS-2B | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 03.70-04.50 | SS-2C | - | - | - | - | - | - | - | - | - | - | - | - | A-1-b (VISUAL) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 04.50-05.00 | SS-3A | 17 | 78 | - | - | - | - | - | - | - | - | - | 4 | A-1-b (VISUAL) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 05.00-06.00 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | 5 | A-1-b (VISUAL) | - |
| B-006-0-18 | 94+44, | 39' | LT. | 41.44368 | -81.6521 | 06.00-07.50 | SS-4 | 13 | 89 | - | 3 | 79 | 9 | 9 | 0 | NP | NP | NP | 4 | A-1-b (0) | - |
| B-007-0-18 | 98+94, | 39' | RT. | 41.44477 | -81.65275 | 01.50-03.00 | SS-1 | 23 | 56 | - | 50 | 24 | 13 | 12 | 1 | NP | NP | NP | 7 | A-1-a (0) | 380 |
| B-007-0-18 | 98+94, | 39' | RT. | 41.44477 | -81.65275 | 03.00-04.50 | SS-2 | 24 | 50 | - | - | - | - | - | - | - | - | - | 12 | A-3a (VISUAL) | 200 |
| B-007-0-18 | 98+94, | 39' | RT. | 41.44477 | -81.65275 | 04.50-06.00 | SS-3 | 25 | 67 | 2.5 | 4 | 14 | 10 | 69 | 3 | NP | NP | NP | 16 | A-4b (7) | - |
| B-007-0-18 | 98+94, | 39' | RT. | 41.44477 | -81.65275 | 06.00-07.50 | SS-4 | 6 | 72 | - | - | - | - | - | - | - | - | - | 23 | A-3 (VISUAL) | - |
| B-008-0-18 | 102+91, | 56' | LT. | 41.44553 | -81.65395 | 01.50-01.83 | SS-1 | 50⁄4" | 100 | - | 66 | 26 | 2 | 4 | 2 | NP | NP | NP | 11 | A-1-a (0) | 1700 |
| B-008-0-18 | 102+91, | 56' | LT. | 41.44553 | -81.65395 | 03.00-03.46 | SS-2 | 50⁄6" | 100 | - | - | - | - | - | - | - | - | - | 17 | A-1-b (VISUAL) | 2600 |
| B-008-0-18 | 102+91, | 56' | LT. | 41.44553 | -81.65395 | 04.50-06.00 | SS-3 | 11 | 89 | 2.5 | 2 | 0 | 1 | 79 | 18 | 28 | 20 | 8 | 20 | A-4b (8) | - |
| B-008-0-18 | 102+91, | 56' | LT. | 41.44553 | -81.65395 | 06.00-07.50 | SS-4 | 14 | 56 | 3.38 | - | - | - | - | - | - | - | - | 19 | A-4b (VISUAL) | - |
| B-009-0-18 | 107+02, | 38' | RT. | 41.44655 | -81.65448 | 01.50-03.00 | SS-1 | 41 | 67 | - | - | - | - | - | - | - | - | - | 8 | A-2-4 (VISUAL) | 450 |
| B-009-0-18 | 107+02, | 38' | RT. | 41.44655 | -81.65448 | 03.00-04.50 | SS-2 | 37 | 67 | - | 6 | 63 | 19 | 10 | 2 | NP | NP | NP | 8 | A-1-b (0) | <100 |
| B-009-0-18 | 107+02, | 38' | RT. | 41.44655 | -81.65448 | 04.50-06.00 | SS-3 | 15 | 67 | - | - | - | - | - | - | - | - | - | 6 | A-1-b (VISUAL) | - |
| B-009-0-18 | 107+02, | 38' | RT. | 41.44655 | -81.65448 | 06.00-07.00 | SS-4A | 11 | 72 | - | 32 | 61 | 5 | 1 | 1 | NP | NP | NP | 16 | A-1-b (0) | - |
| B-009-0-18 | 107+02, | 38' | RT. | 41.44655 | -81.65448 | 07.00-07.50 | SS-4B | - | - | 2 | - | - | - | - | - | - | - | - | - | A-6a (VISUAL) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 01.20-02.70 | SS-1 | 17 | 72 | - | - | - | - | - | - | - | - | - | 8 | A-2-4 (VISUAL) | 100 |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 03.00-03.60 | SS-2A | 10 | 83 | - | 4 | 11 | 14 | 55 | 16 | NP | NP | NP | 23 | A-4b (7) | 160 |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:52:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\e00-Engineering\Geotechnical\Sheets\105743_IC002.dgn



GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 11/18/25

PROJECT ID 105743

SUBSET 2 | TOTAL 57

SHEET P.1080 | TOTAL P.1135

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

| EXPLOR. ID | STATION, | OFF | SET | LAT/NORTH | LONG/EAST | FROM-TO | SAMPLE ID | N60 | % REC | tsf HP | % GR | % CS | % FS | % SILT | % CLAY | LL | PL | PI | % WC | ODOT CLASS (GI) | ppm SO4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 03.60-04.50 | SS-2B | - | - | 1.25 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 04.50-05.20 | SS-3A | 17 | 83 | - | 2 | 2 | 11 | 82 | 3 | NP | NP | NP | 13 | A-4b (8) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 05.20-06.00 | SS-3B | - | - | 3 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 06.00-06.50 | SS-4A | 17 | 89 | 2.5 | - | - | - | - | - | - | - | - | 14 | A-4b (VISUAL) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 06.50-07.00 | SS-4B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-010-0-18 | 110+99, | 39' | LT. | 41.44744 | -81.65543 | 07.00-07.50 | SS-4C | - | - | 4.5 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-011-0-18 | 114+97, | 38' | RT. | 41.4485 | -81.65574 | 01.50-03.00 | SS-1 | 15 | 44 | - | - | - | - | - | - | - | - | - | 9 | A-1-b (VISUAL) | 170 |
| B-011-0-18 | 114+97, | 38' | RT. | 41.4485 | -81.65574 | 03.00-04.50 | SS-2 | 20 | 67 | 3.92 | 4 | 8 | 7 | 61 | 20 | 26 | 17 | 9 | 16 | A-4b (8) | 810 |
| B-011-0-18 | 114+97, | 38' | RT. | 41.4485 | -81.65574 | 04.50-06.00 | SS-3 | 65 | 67 | - | 2 | 32 | 26 | 39 | 1 | NP | NP | NP | 9 | A-4a (1) | - |
| B-011-0-18 | 114+97, | 38' | RT. | 41.4485 | -81.65574 | 06.00-07.50 | SS-4 | 28 | 72 | 4 | - | - | - | - | - | - | - | - | 15 | A-4b (VISUAL) | - |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 01.45-02.30 | SS-1A | 7 | 83 | - | 35 | 33 | 16 | 14 | 2 | NP | NP | NP | 9 | A-1-b (0) | - |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 02.30-02.95 | SS-1B | - | - | 1 | - | - | - | - | - | - | - | - | 19 | A-4a (VISUAL) | 530 |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 03.00-03.75 | SS-2A | 18 | 89 | - | 1 | 16 | 28 | 48 | 7 | NP | NP | NP | 15 | A-4a (4) | 480 |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 03.75-04.50 | SS-2B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 04.50-05.10 | SS-3A | 14 | 78 | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 05.10-06.00 | SS-3B | - | - | 4.5+ | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-012-0-18 | 118+90, | 39' | LT. | 41.44949 | -81.65659 | 06.00-07.50 | SS-4 | 13 | 78 | 2.67 | - | - | - | - | - | - | - | - | 19 | A-4b (VISUAL) | - |
| B-013-0-18 | 124+05, | 53' | RT. | 41.45087 | -81.65668 | 01.50-03.00 | SS-1 | 14 | 44 | - | 62 | 14 | 8 | 16 | 0 | NP | NP | NP | 13 | A-1-b (0) | 960 |
| B-013-0-18 | 124+05, | 53' | RT. | 41.45087 | -81.65668 | 03.00-04.50 | SS-2 | 10 | 72 | 2.42 | - | - | - | - | - | - | - | - | 18 | A-4b (VISUAL) | 1100 |
| B-013-0-18 | 124+05, | 53' | RT. | 41.45087 | -81.65668 | 04.50-06.00 | SS-3 | 8 | 56 | 1.67 | - | - | - | - | - | - | - | - | 20 | A-4b (VISUAL) | - |
| B-013-0-18 | 124+05, | 53' | RT. | 41.45087 | -81.65668 | 06.00-07.50 | SS-4 | 10 | 100 | 1.58 | 0 | 0 | 1 | 72 | 27 | 27 | 19 | 8 | 21 | A-4b (8) | - |
| B-014-0-18 | 126+88, | 51' | LT. | 41.4516 | -81.65716 | 01.20-02.70 | SS-1 | 80 | 44 | - | 50 | 44 | 2 | 3 | 1 | NP | NP | NP | 9 | A-1-b (0) | 1000 |
| B-014-0-18 | 126+88, | 51' | LT. | 41.4516 | -81.65716 | 03.00-04.50 | SS-2 | 28 | 83 | 4.33 | - | - | - | - | - | - | - | - | 12 | A-4b (VISUAL) | 320 |
| B-014-0-18 | 126+88, | 51' | LT. | 41.4516 | -81.65716 | 04.50-06.00 | SS-3 | 15 | 94 | 3.83 | 6 | 9 | 11 | 59 | 15 | 24 | 20 | 4 | 15 | A-4b (8) | - |
| B-014-0-18 | 126+88, | 51' | LT. | 41.4516 | -81.65716 | 06.00-07.50 | SS-4 | 20 | 89 | 4.42 | - | - | - | - | - | - | - | - | 15 | A-4b (VISUAL) | - |
| B-015-0-18 | 131+63, | 39' | RT. | 41.4529 | -81.65696 | 01.50-02.20 | SS-1A | 52 | 94 | - | - | - | - | - | - | - | - | - | 9 | A-2-4 (VISUAL) | 280 |
| B-015-0-18 | 131+63, | 39' | RT. | 41.4529 | -81.65696 | 02.20-03.00 | SS-1B | - | - | - | 19 | 55 | 11 | 14 | 1 | NP | NP | NP | 6 | A-1-b (0) | - |
| B-015-0-18 | 131+63, | 39' | RT. | 41.4529 | -81.65696 | 03.00-04.50 | SS-2 | 34 | 100 | 4 | - | - | - | - | - | - | - | - | 14 | A-4b (VISUAL) | 400 |
| B-015-0-18 | 131+63, | 39' | RT. | 41.4529 | -81.65696 | 04.50-06.00 | SS-3 | 41 | 78 | 4.5 | - | - | - | - | - | - | - | - | 13 | A-4b (VISUAL) | - |
| B-015-0-18 | 131+63, | 39' | RT. | 41.4529 | -81.65696 | 06.00-07.50 | SS-4 | 18 | 100 | 3.92 | 0 | 1 | 2 | 68 | 29 | 27 | 20 | 7 | 19 | A-4b (8) | - |
| B-016-0-18 | 134+90, | 40' | LT. | 41.4538 | -81.65732 | 01.50-03.00 | SS-1 | 89 | 61 | - | 64 | 33 | 1 | 2 | 0 | NP | NP | NP | 10 | A-1-a (0) | 140 |
| B-016-0-18 | 134+90, | 40' | LT. | 41.4538 | -81.65732 | 03.00-04.50 | SS-2 | 24 | 94 | 4.5+ | 4 | 14 | 17 | 49 | 16 | 24 | 17 | 7 | 13 | A-4a (6) | - |
| B-016-0-18 | 134+90, | 40' | LT. | 41.4538 | -81.65732 | 04.50-05.50 | SS-3A | 35 | 100 | 3.08 | - | - | - | - | - | - | - | - | 9 | A-4b (VISUAL) | 360 |
| B-016-0-18 | 134+90, | 40' | LT. | 41.4538 | -81.65732 | 05.50-06.00 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | 11 | A-3a (VISUAL) | - |
| B-016-0-18 | 134+90, | 40' | LT. | 41.4538 | -81.65732 | 06.00-07.50 | SS-4 | 28 | 100 | - | - | - | - | - | - | - | - | - | 12 | A-4a (VISUAL) | - |
| B-017-0-18 | 138+88, | 38' | RT. | 41.45486 | -81.65706 | 01.50-02.80 | SS-1A | 25 | 94 | - | 52 | 23 | 13 | 10 | 2 | NP | NP | NP | 8 | A-1-a (0) | 100 |
| B-017-0-18 | 138+88, | 38' | RT. | 41.45486 | -81.65706 | 02.80-03.00 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-017-0-18 | 138+88, | 38' | RT. | 41.45486 | -81.65706 | 03.00-04.50 | SS-2 | 21 | 83 | 1.33 | - | - | - | - | - | - | - | - | 20 | A-4b (VISUAL) | 710 |
| B-017-0-18 | 138+88, | 38' | RT. | 41.45486 | -81.65706 | 04.50-06.00 | SS-3 | 8 | 72 | 1.17 | 1 | 0 | 0 | 77 | 22 | 24 | 18 | 6 | 21 | A-4b (8) | - |
| B-017-0-18 | 138+88, | 38' | RT. | 41.45486 | -81.65706 | 06.00-07.50 | SS-4 | 14 | 78 | 0.5 | - | - | - | - | - | - | - | - | 21 | A-4b (VISUAL) | - |
| B-018-0-18 | 142+99, | 39' | LT. | 41.456 | -81.65743 | 01.25-02.75 | SS-1 | 24 | 44 | - | - | - | - | - | - | - | - | - | 8 | A-1-b (VISUAL) | 170 |
| B-018-0-18 | 142+99, | 39' | LT. | 41.456 | -81.65743 | 03.00-04.50 | SS-2 | 14 | 44 | - | 5 | 27 | 60 | 5 | 3 | NP | NP | NP | 23 | A-3 (0) | 160 |
| B-018-0-18 | 142+99, | 39' | LT. | 41.456 | -81.65743 | 04.50-06.00 | SS-3 | 17 | 83 | - | - | - | - | - | - | - | - | - | 27 | A-3 (VISUAL) | - |
| B-018-0-18 | 142+99, | 39' | LT. | 41.456 | -81.65743 | 06.00-07.50 | SS-4 | 23 | 89 | - | 0 | 13 | 82 | 3 | 2 | NP | NP | NP | 22 | A-3 (0) | - |
| B-019-0-18 | 146+86, | 39' | RT. | 41.45708 | -81.65709 | 01.50-03.00 | SS-1 | 25 | 67 | - | 57 | 24 | 10 | 7 | 2 | NP | NP | NP | 6 | A-1-a (0) | <100 |
| B-019-0-18 | 146+86, | 39' | RT. | 41.45708 | -81.65709 | 03.00-04.50 | SS-2 | 31 | 83 | - | - | - | - | - | - | - | - | - | 4 | A-2-4 (VISUAL) | <100 |
| B-019-0-18 | 146+86, | 39' | RT. | 41.45708 | -81.65709 | 04.50-06.00 | SS-3 | 34 | 83 | - | 3 | 18 | 70 | 6 | 3 | NP | NP | NP | 6 | A-3 (0) | - |
| B-019-0-18 | 146+86, | 39' | RT. | 41.45708 | -81.65709 | 06.00-07.50 | SS-4 | 25 | 67 | - | - | - | - | - | - | - | - | - | 6 | A-1-b (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 01.50-02.00 | SS-1A | 30 | 89 | - | - | - | - | - | - | - | - | - | 8 | A-1-b (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 02.00-03.00 | SS-1B | - | - | - | 58 | 20 | 10 | 10 | 2 | NP | NP | NP | 8 | A-1-a (0) | 240 |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 03.00-03.10 | SS-2A | 31 | 72 | - | - | - | - | - | - | - | - | - | - | A-1-a (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 03.10-04.50 | SS-2B | - | - | 4.5+ | 0 | 0 | 5 | 72 | 23 | 26 | 20 | 6 | 14 | A-4b (8) | 1100 |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 04.50-05.20 | SS-3A | 21 | 100 | 4.13 | - | - | - | - | - | - | - | - | 16 | A-4b (VISUAL) | - |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:52:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\ds00-Engineering\Geotechnical\Sheets\105743_IC003.dgn



GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 11/18/25

PROJECT ID 105743

SUBSET 3 | TOTAL 57

SHEET P.1081 | TOTAL P.1135

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

| | | | | | | | SAMPLE | | % | tsf | % | % | % | % | % | | | | % | ODOT | ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLOR. ID | STATION, | OFF | SET | LAT/NORTH | LONG/EAST | FROM-TO | ID | N60 | REC | HP | GR | CS | FS | SILT | CLAY | LL | PL | PI | WC | CLASS (GI) | SO4 |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 05.20-05.50 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 05.50-06.00 | SS-3C | - | - | - | - | - | - | - | - | - | - | - | - | A-3 (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 06.00-06.90 | SS-4A | 30 | 100 | - | - | - | - | - | - | - | - | - | 18 | A-3 (VISUAL) | - |
| B-020-0-18 | 151+03, | 39' | LT. | 41.45829 | -81.6573 | 06.90-07.50 | SS-4B | - | - | 2.25 | - | - | - | - | - | - | - | - | 18 | A-4b (VISUAL) | - |
| B-021-0-18 | 154+83, | 52' | RT. | 41.45923 | -81.65685 | 01.50-03.00 | SS-1 | 37 | 89 | - | 47 | 24 | 15 | 12 | 2 | NP | NP | NP | 7 | A-1-b (0) | 460 |
| B-021-0-18 | 154+83, | 52' | RT. | 41.45923 | -81.65685 | 03.00-03.90 | SS-2A | 24 | 100 | 3.5 | - | - | - | - | - | - | - | - | 14 | A-4a (VISUAL) | 560 |
| B-021-0-18 | 154+83, | 52' | RT. | 41.45923 | -81.65685 | 03.90-04.50 | SS-2B | - | - | 4 | - | - | - | - | - | - | - | - | - | A-6a (VISUAL) | - |
| B-021-0-18 | 154+83, | 52' | RT. | 41.45923 | -81.65685 | 04.50-06.00 | SS-3 | 14 | 72 | 1.25 | 0 | 0 | 4 | 44 | 52 | 32 | 19 | 13 | 24 | A-6a (9) | - |
| B-021-0-18 | 154+83, | 52' | RT. | 41.45923 | -81.65685 | 06.00-07.50 | SS-4 | 14 | 83 | 0.67 | - | - | - | - | - | - | - | - | 17 | A-6a (VISUAL) | - |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 01.42-02.08 | SS-1 | 30/50/2" | 100 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (VISUAL) | 1500 |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 03.00-03.30 | SS-2A | 15 | 56 | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 03.30-04.50 | SS-2B | - | - | 2.88 | 0 | 0 | 1 | 50 | 49 | 31 | 19 | 12 | 22 | A-6a (9) | 1200 |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 04.50-06.00 | SS-3 | 13 | 78 | 0.58 | 0 | 0 | 1 | 30 | 69 | 39 | 23 | 16 | 27 | A-6b (10) | - |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 06.00-06.20 | SS-4A | 25 | 83 | 1 | - | - | - | - | - | - | - | - | 16 | A-6b (VISUAL) | - |
| B-022-0-18 | 159+05, | 40' | LT. | 41.46041 | -81.65716 | 06.20-07.50 | SS-4B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 01.50-02.50 | SS-1A | 21 | 94 | - | - | - | - | - | - | - | - | - | 8 | A-1-b (VISUAL) | 120 |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 02.50-03.00 | SS-1B | - | - | 2.25 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 03.00-04.00 | SS-2A | 17 | 83 | 4.5 | 4 | 11 | 7 | 56 | 22 | 24 | 20 | 4 | 17 | A-4b (8) | 530 |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 04.00-04.50 | SS-2B | - | - | 4.5 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 04.50-06.00 | SS-3 | 15 | 100 | 2.33 | 0 | 0 | 4 | 64 | 32 | 25 | 18 | 7 | 20 | A-4b (8) | - |
| B-023-0-18 | 162+87, | 39' | RT. | 41.46149 | -81.65697 | 06.00-07.50 | SS-4 | 23 | 72 | 4.5 | - | - | - | - | - | - | - | - | 17 | A-4b (VISUAL) | - |
| B-024-0-18 | 166+86, | 40' | LT. | 41.46254 | -81.65734 | 01.42-02.08 | SS-1 | 20/50/2" | 100 | - | - | - | - | - | - | - | - | - | 10 | A-1-a (VISUAL) | <100 |
| B-024-0-18 | 166+86, | 40' | LT. | 41.46254 | -81.65734 | 03.00-04.50 | SS-2 | 38 | 83 | 4.5+ | 14 | 11 | 10 | 58 | 7 | 25 | 21 | 4 | 14 | A-4b (6) | 400 |
| B-024-0-18 | 166+86, | 40' | LT. | 41.46254 | -81.65734 | 04.50-06.00 | SS-3 | 31 | 83 | - | 5 | 8 | 38 | 37 | 12 | NP | NP | NP | 13 | A-4a (3) | - |
| B-024-0-18 | 166+86, | 40' | LT. | 41.46254 | -81.65734 | 06.00-06.20 | SS-4A | 17 | 83 | - | - | - | - | - | - | - | - | - | 15 | A-4a (VISUAL) | - |
| B-024-0-18 | 166+86, | 40' | LT. | 41.46254 | -81.65734 | 06.20-07.50 | SS-4B | - | - | 4.42 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 01.00-01.92 | SS-1 | 8/50/5" | 64 | - | 53 | 24 | 16 | 5 | 2 | NP | NP | NP | 14 | A-1-a (0) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 03.50-05.00 | SS-2 | 17 | 89 | - | 52 | 15 | 19 | - | - | NP | NP | NP | 11 | A-1-b (0) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 06.00-06.70 | SS-3A | 11 | 89 | - | 0 | 0 | 49 | 46 | 5 | NP | NP | NP | 22 | A-4a (3) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 06.70-06.80 | SS-3B | - | - | 0.75 | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 06.80-07.50 | SS-3C | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 08.50-10.00 | SS-4 | 11 | 78 | - | 0 | 1 | 63 | 31 | 5 | NP | NP | NP | 27 | A-4a (0) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 13.50-15.00 | SS-5 | 35 | 94 | - | - | - | - | - | - | - | - | - | 23 | A-4a (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 18.50-20.00 | SS-6 | 17 | 83 | 4.08 | 2 | 0 | 1 | 73 | 24 | 25 | 19 | 6 | 19 | A-4b (8) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 23.50-25.00 | SS-7 | 8 | 89 | 0.5 | - | - | - | - | - | - | - | - | 27 | A-4b (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 28.50-30.00 | SS-8 | 11 | 100 | 0.67 | 0 | 0 | 0 | 65 | 35 | 26 | 19 | 7 | 32 | A-4b (8) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 31.00-33.00 | ST-1 | ST | 100 | - | 0 | 0 | 1 | 86 | 13 | NP | NP | NP | 28 | A-4b (8) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 33.00-34.50 | SS-9 | 8 | 94 | - | - | - | - | - | - | - | - | - | 27 | A-4b (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 38.50-40.00 | SS-10 | 13 | 94 | 0.75 | 1 | 0 | 1 | 45 | 53 | 33 | 19 | 14 | 26 | A-6a (10) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 43.50-45.00 | SS-11 | 20 | 100 | 1.5 | - | - | - | - | - | - | - | - | 24 | A-6a (VISUAL) | - |
| B-025-0-18 | 169+65, | 54' | RT. | 41.46326 | -81.65725 | 48.50-50.00 | SS-12 | 21 | 94 | 2 | - | - | - | - | - | - | - | - | - | A-6a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 01.00-01.70 | SS-1A | 25 | 78 | - | 23 | 39 | 22 | 12 | 4 | NP | NP | NP | 17 | A-1-b (0) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 01.70-02.50 | SS-1B | - | - | 2.25 | 1 | 16 | 26 | 35 | 22 | 17 | 14 | 3 | 15 | A-4a (4) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 03.50-03.80 | SS-2A | 10 | 78 | - | 3 | 43 | 31 | 14 | 9 | NP | NP | NP | 9 | A-3a (0) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 03.80-04.40 | SS-2B | - | - | - | - | - | - | - | - | - | - | - | - | A-3a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 04.40-05.00 | SS-2C | - | - | - | 0 | 3 | 7 | 58 | 32 | 26 | 18 | 8 | 18 | A-4b (8) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 06.00-06.60 | SS-3A | 6 | 67 | - | 3 | 24 | 52 | 11 | 10 | NP | NP | NP | 13 | A-3a (0) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 06.60-07.50 | SS-3B | - | - | 4.5+ | - | - | - | - | - | - | - | - | 17 | A-4a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 08.50-09.50 | SS-4A | 6 | 78 | 1 | 5 | 10 | 17 | 37 | 31 | 27 | 17 | 10 | 21 | A-4a (7) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 09.50-10.00 | SS-4B | - | - | - | - | - | - | - | - | - | - | - | 17 | A-4a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 13.50-15.00 | SS-5 | 10 | 78 | 0.7 | 0 | 5 | 34 | 31 | 30 | 25 | 15 | 10 | 22 | A-4a (5) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 18.50-20.00 | SS-6 | 13 | 83 | 2.67 | - | - | - | - | - | - | - | - | 21 | A-4b (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 23.50-25.00 | SS-7 | 11 | 100 | 0.6 | 0 | 0 | 1 | 68 | 31 | 27 | 21 | 6 | 25 | A-4b (8) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 28.50-30.00 | SS-8 | 11 | 94 | 0.65 | - | - | - | - | - | - | - | - | 26 | A-4b (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 33.50-35.00 | SS-9 | 8 | 100 | 0.83 | 0 | 0 | 0 | 67 | 33 | 28 | 20 | 8 | 26 | A-4b (8) | - |

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:52:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Geotechnical\Sheets\105743_IC004.dgn

CUY-77-11.41 - PART 1

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 11/18/25

PROJECT ID 105743

SUBSET 4 | TOTAL 57

SHEET P.1082 | TOTAL P.1135

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

| EXPLOR. ID | STATION, | OFF | SET | LAT/NORTH | LONG/EAST | FROM-TO | SAMPLE ID | N60 | % REC | tsf HP | % GR | % CS | % FS | % SILT | % CLAY | LL | PL | PI | % WC | ODOT CLASS (GI) | ppm SO4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 35.50-37.50 | ST-2 | ST | 100 | 2.13 | - | - | - | - | - | - | - | - | - | A-6a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 38.50-40.00 | SS-10 | 13 | 100 | 1.75 | 1 | 0 | 0 | 53 | 46 | 31 | 20 | 11 | 24 | A-6a (8) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 43.50-45.00 | SS-11 | 17 | 100 | 1.92 | - | - | - | - | - | - | - | - | 23 | A-6a (VISUAL) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 48.50-49.30 | SS-12A | 23 | 100 | - | 0 | 0 | 0 | 90 | 10 | NP | NP | NP | 19 | A-4b (8) | - |
| B-026-0-18 | 171+20, | 74' | LT. | 41.4637 | -81.65788 | 49.30-50.00 | SS-12B | - | - | 2.13 | - | - | - | - | - | - | - | - | 23 | A-6a (VISUAL) | - |
| B-027-0-18 | 171+09, | 38' | RT. | 41.4637 | -81.65742 | 01.00-02.50 | SS-1 | 44 | 72 | - | - | - | - | - | - | - | - | - | 7 | A-1-b (VISUAL) | 620 |
| B-027-0-18 | 171+09, | 38' | RT. | 41.4637 | -81.65742 | 02.50-04.00 | SS-2 | 17 | 72 | 4.5+ | 58 | 25 | 10 | 6 | 1 | NP | NP | NP | 14 | A-1-a (0) | 2900 |
| B-027-0-18 | 171+09, | 38' | RT. | 41.4637 | -81.65742 | 04.00-04.30 | SS-3A | 52 | 83 | 2.25 | - | - | - | - | - | - | - | - | 13 | A-4a (VISUAL) | - |
| B-027-0-18 | 171+09, | 38' | RT. | 41.4637 | -81.65742 | 04.30-05.50 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-027-0-18 | 171+09, | 38' | RT. | 41.4637 | -81.65742 | 05.50-07.00 | SS-4 | 37 | 83 | - | 12 | 16 | 29 | 27 | 16 | 23 | 18 | 5 | 14 | A-4a (2) | - |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 01.19-01.40 | SS-1A | 20 | 78 | - | - | - | - | - | - | - | - | - | - | A-1-b (VISUAL) | - |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 01.40-02.70 | SS-1B | - | - | - | 6 | 17 | 16 | 56 | 5 | NP | NP | NP | 15 | A-4b (5) | 280 |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 02.70-03.40 | SS-2A | 23 | 100 | - | 10 | 24 | 18 | 40 | 8 | NP | NP | NP | 18 | A-4a (3) | 570 |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 03.40-04.20 | SS-2B | - | - | - | 24 | 33 | 19 | 17 | 7 | NP | NP | NP | 9 | A-1-b (0) | - |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 04.20-05.00 | SS-3A | 5/18/50/2" | 93 | 2 | - | - | - | - | - | - | - | - | 15 | A-4b (VISUAL) | - |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 05.00-05.37 | SS-3B | - | - | - | 60 | 26 | 9 | 4 | 1 | NP | NP | NP | 9 | A-1-a (0) | - |
| B-028-0-18 | 174+35, | 40' | LT. | 41.46459 | -81.65788 | 06.00-06.33 | SS-4 | 50/4" | 100 | - | - | - | - | - | - | - | - | - | 8 | A-1-a (VISUAL) | - |
| B-031-0-18 | 179+09, | 38' | RT. | 41.46591 | -81.65789 | 01.50-03.00 | SS-1 | 23 | 67 | 2 | 10 | 13 | 18 | 45 | 14 | 23 | 16 | 7 | 16 | A-4a (5) | 460 |
| B-031-0-18 | 179+09, | 38' | RT. | 41.46591 | -81.65789 | 03.00-04.50 | SS-2 | 21 | 72 | 4.5+ | - | - | - | - | - | - | - | - | 16 | A-4a (VISUAL) | 600 |
| B-031-0-18 | 179+09, | 38' | RT. | 41.46591 | -81.65789 | 04.50-06.00 | SS-3 | 23 | 83 | 3.75 | - | - | - | - | - | - | - | - | 17 | A-4a (VISUAL) | - |
| B-031-0-18 | 179+09, | 38' | RT. | 41.46591 | -81.65789 | 06.00-06.40 | SS-4A | 8/15/50/1" | 92 | 1.75 | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-031-0-18 | 179+09, | 38' | RT. | 41.46591 | -81.65789 | 06.40-07.08 | SS-4B | - | - | - | 26 | 13 | 33 | 17 | 11 | 18 | 14 | 4 | 10 | A-2-4 (0) | - |
| B-032-0-18 | 182+84, | 50' | LT. | 41.4668 | -81.65861 | 01.40-02.90 | SS-1 | 6 | 61 | - | - | - | - | - | - | - | - | - | 6 | A-1-a (VISUAL) | <100 |
| B-032-0-18 | 182+84, | 50' | LT. | 41.4668 | -81.65861 | 02.90-04.40 | SS-2 | 6 | 67 | - | 95 | 3 | 1 | - | - | NP | NP | NP | 6 | A-1-a (0) | - |
| B-032-0-18 | 182+84, | 50' | LT. | 41.4668 | -81.65861 | 04.40-05.90 | SS-3 | 13 | 56 | - | - | - | - | - | - | - | - | - | 11 | A-1-a (VISUAL) | - |
| B-032-0-18 | 182+84, | 50' | LT. | 41.4668 | -81.65861 | 05.90-07.40 | SS-4 | 8 | 28 | - | - | - | - | - | - | - | - | - | - | A-1-a (VISUAL) | - |
| B-033-0-18 | 186+95, | 51' | RT. | 41.46798 | -81.65877 | 01.76-03.00 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | 14 | A-2-4 (VISUAL) | 6500 |
| B-033-0-18 | 186+95, | 51' | RT. | 41.46798 | -81.65877 | 03.00-04.50 | SS-2 | 41 | 72 | - | 78 | 15 | 3 | 3 | 1 | NP | NP | NP | 11 | A-1-a (0) | 6600 |
| B-033-0-18 | 186+95, | 51' | RT. | 41.46798 | -81.65877 | 04.50-06.00 | SS-3 | 15 | 72 | 2.83 | 1 | 2 | 8 | 72 | 17 | 22 | 18 | 4 | 18 | A-4b (8) | - |
| B-033-0-18 | 186+95, | 51' | RT. | 41.46798 | -81.65877 | 06.00-07.50 | SS-4 | 11 | 72 | 2 | - | - | - | - | - | - | - | - | 17 | A-4b (VISUAL) | - |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 01.50-02.10 | SS-1A | 25 | 94 | - | 8 | 52 | 24 | 15 | 1 | NP | NP | NP | 51 | A-1-b (0) | - |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 02.10-03.00 | SS-1B | - | - | 4.5+ | - | - | - | - | - | - | - | - | 12 | A-4b (VISUAL) | 550 |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 03.00-04.50 | SS-2 | 24 | 83 | - | 3 | 4 | 28 | 55 | 10 | NP | NP | NP | 13 | A-4b (6) | 510 |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 04.50-05.75 | SS-3A | 15 | 100 | - | 1 | 21 | 61 | 9 | 8 | NP | NP | NP | 16 | A-3a (0) | - |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 05.75-06.00 | SS-3B | - | - | 2.5 | - | - | - | - | - | - | - | - | - | A-6a (VISUAL) | - |
| B-034-0-18 | 191+92, | 40' | LT. | 41.46932 | -81.65964 | 06.00-07.50 | SS-4 | 6 | 72 | - | 36 | 29 | 20 | 11 | 4 | 19 | 14 | 5 | 9 | A-1-b (0) | - |
| B-035-0-18 | 194+98, | 41' | RT. | 41.47004 | -81.65958 | 01.80-02.50 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | - | A-1-b (VISUAL) | - |
| B-035-0-18 | 194+98, | 41' | RT. | 41.47004 | -81.65958 | 02.50-03.00 | SS-1C | - | - | 1 | - | - | - | - | - | - | - | - | 17 | A-4a (VISUAL) | 1000 |
| B-035-0-18 | 194+98, | 41' | RT. | 41.47004 | -81.65958 | 03.00-04.50 | SS-2 | 24 | 89 | 4.5 | - | - | - | - | - | - | - | - | 12 | A-4a (VISUAL) | 320 |
| B-035-0-18 | 194+98, | 41' | RT. | 41.47004 | -81.65958 | 04.50-06.00 | SS-3 | 39 | 78 | 4.5+ | 7 | 13 | 40 | 28 | 12 | 17 | 16 | 1 | 10 | A-4a (1) | - |
| B-035-0-18 | 194+98, | 41' | RT. | 41.47004 | -81.65958 | 06.00-07.50 | SS-4 | 25 | 78 | 4.5+ | - | - | - | - | - | - | - | - | 11 | A-4a (VISUAL) | - |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 01.10-02.10 | SS-1A | 10 | 94 | - | 19 | 38 | 15 | 26 | 2 | NP | NP | NP | 13 | A-3a (0) | 140 |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 02.10-02.60 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | - | A-4a (VISUAL) | - |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 03.00-04.50 | SS-2 | 12 | 89 | - | - | - | - | - | - | - | - | - | 18 | A-4a (VISUAL) | 2000 |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 04.50-05.50 | SS-3A | 15 | 78 | - | 4 | 7 | 42 | 39 | 8 | NP | NP | NP | 19 | A-4a (2) | - |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 05.50-06.00 | SS-3B | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 06.00-06.50 | SS-4A | 9 | 89 | - | 0 | 0 | 29 | 65 | 6 | NP | NP | NP | 25 | A-4b (7) | - |
| B-036-0-18 | 198+34, | 46' | LT. | 41.47092 | -81.66005 | 06.50-07.50 | SS-4B | - | - | - | - | - | - | - | - | - | - | - | - | A-4b (VISUAL) | - |
| B-037-0-18 | 202+31, | 54' | RT. | 41.47205 | -81.65975 | 01.20-01.60 | SS-1A | 85 | 56 | - | - | - | - | - | - | - | - | - | - | A-1-a (VISUAL) | - |
| B-037-0-18 | 202+31, | 54' | RT. | 41.47205 | -81.65975 | 01.60-02.70 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | 42 | A-1-a (VISUAL) | 1800 |
| B-037-0-18 | 202+31, | 54' | RT. | 41.47205 | -81.65975 | 02.70-04.20 | SS-2 | 38 | 72 | - | 0 | 1 | 17 | 76 | 6 | NP | NP | NP | 18 | A-4b (8) | 1000 |
| B-037-0-18 | 202+31, | 54' | RT. | 41.47205 | -81.65975 | 04.20-05.70 | SS-3 | 14 | 61 | - | 0 | 0 | 45 | 50 | 5 | NP | NP | NP | 25 | A-4b (4) | - |
| B-037-0-18 | 202+31, | 54' | RT. | 41.47205 | -81.65975 | 05.70-07.20 | SS-4 | 8 | 72 | - | 0 | 0 | 19 | 76 | 5 | NP | NP | NP | 25 | A-4b (8) | - |
| B-039-0-18 | 210+95, | 41' | RT. | 41.4744 | -81.66011 | 01.40-02.00 | SS-1A | 28 | 72 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (VISUAL) | 130 |
| B-039-0-18 | 210+95, | 41' | RT. | 41.4744 | -81.66011 | 02.00-02.90 | SS-1B | - | - | - | - | - | - | - | - | - | - | - | - | A-1-b (VISUAL) | - |
| B-039-0-18 | 210+95, | 41' | RT. | 41.4744 | -81.66011 | 02.90-04.40 | SS-2 | 11 | 67 | - | 9 | 65 | 20 | 3 | 3 | NP | NP | NP | 6 | A-1-b (0) | 330 |
| B-039-0-18 | 210+95, | 41' | RT. | 41.4744 | -81.66011 | 04.40-05.90 | SS-3 | 6 | 78 | - | 0 | 0 | 66 | 32 | 2 | NP | NP | NP | 21 | A-3a (0) | - |
| B-039-0-18 | 210+95, | 41' | RT. | 41.4744 | -81.66011 | 05.90-07.40 | SS-4 | 6 | 78 | - | 0 | 0 | 89 | 10 | 1 | NP | NP | NP | 26 | A-3a (0) | - |

CUY-77-11.41 - PART 1

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY
TRC

DESIGNER
EB

REVIEWER
SDM 11/18/25

PROJECT ID
105743

SUBSET 5 | TOTAL 57

SHEET P.1083 | TOTAL P.1135

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:53:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_IC005.dgn

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:53:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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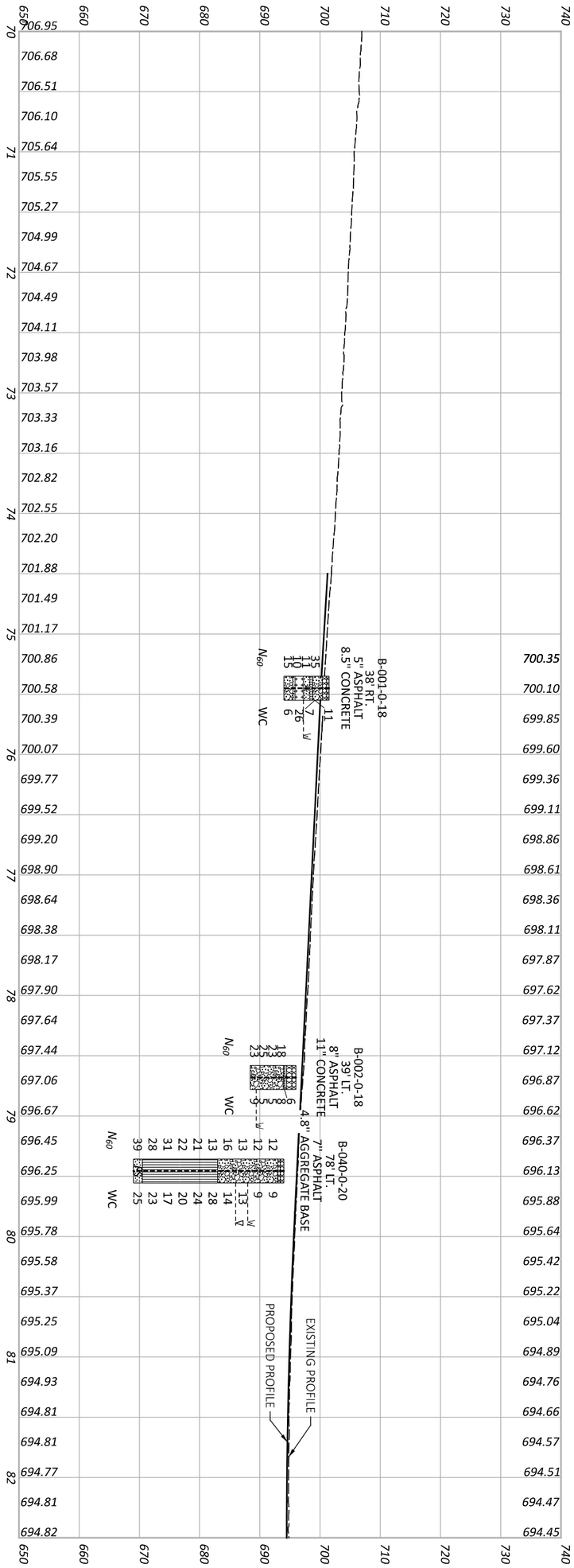


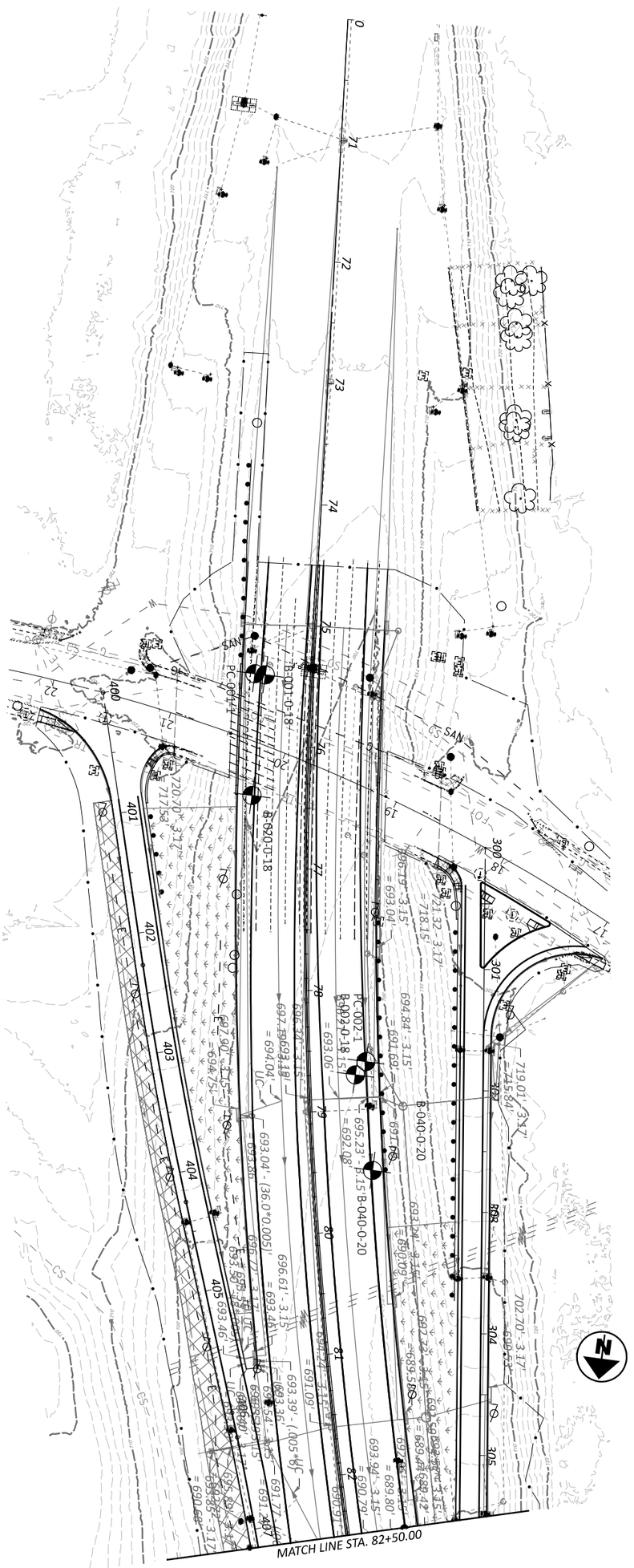


| DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|
| EB | SDM 11/18/25 | 105743 | 6 TOTAL 57 | P.1084 TOTAL P.1135 |

DESIGN AGENCY: TRC

## SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 70+00 TO STA. 82+50

HORIZONTAL SCALE IN FEET
0 50
25 100

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:54:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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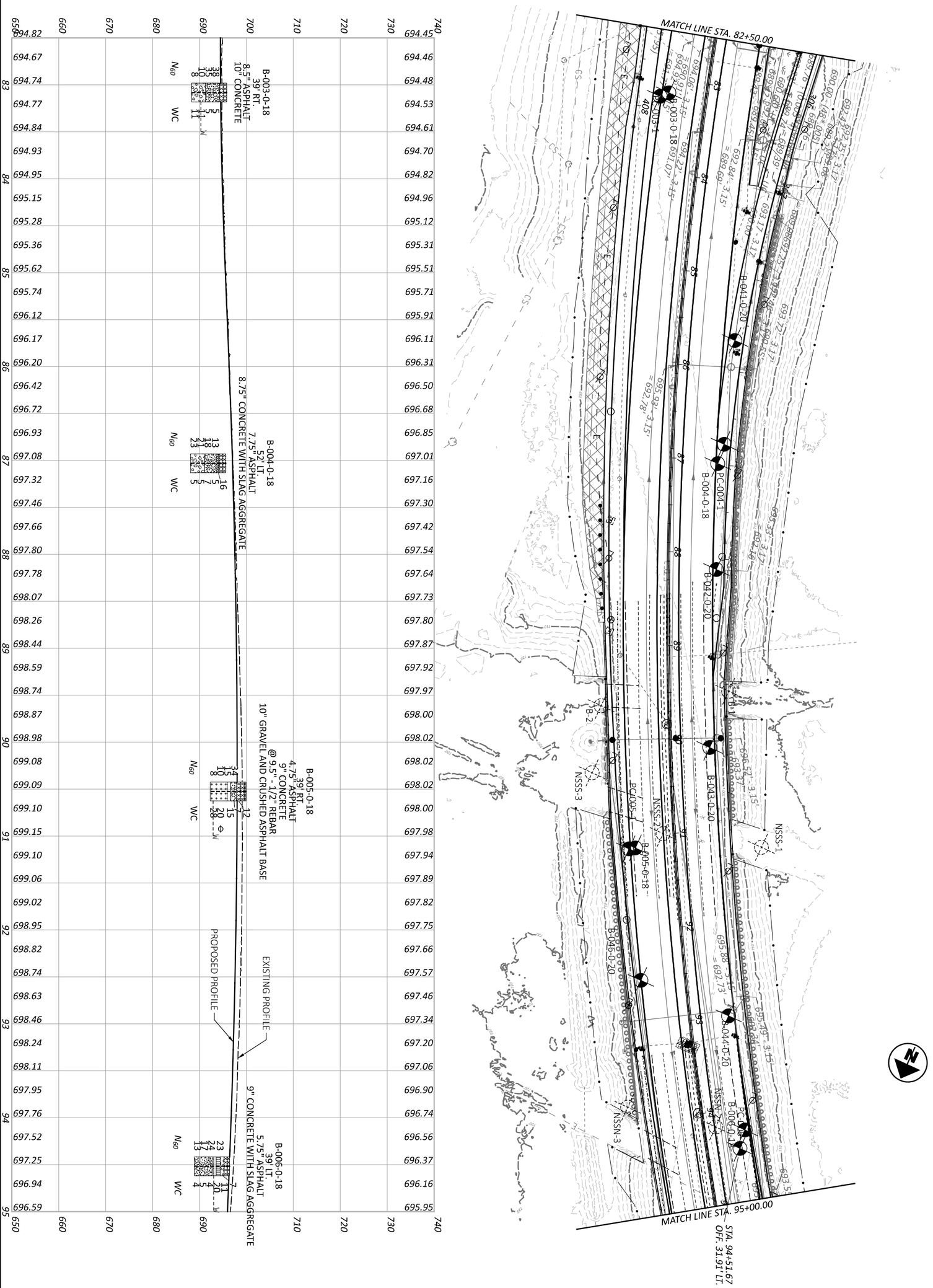


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA. 82+50 TO STA. 95+00

HORIZONTAL SCALE IN FEET
0 50
25 100

| DESIGNER | DESIGN AGENCY |
|---|---|
| EB | TRC |

| REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|
| SDM 11/18/25 | 105743 | 7 TOTAL 57 | P.1085 TOTAL P.1135 |

# CUY-77-11.41 - PART 1

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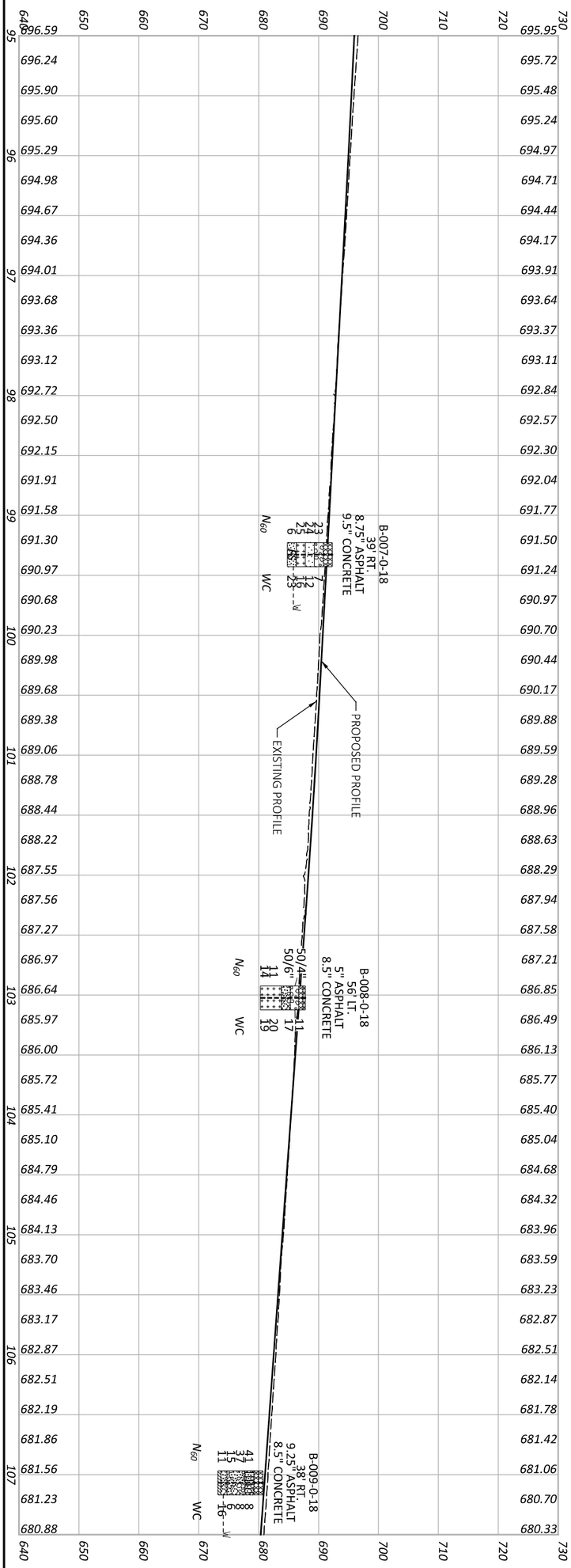


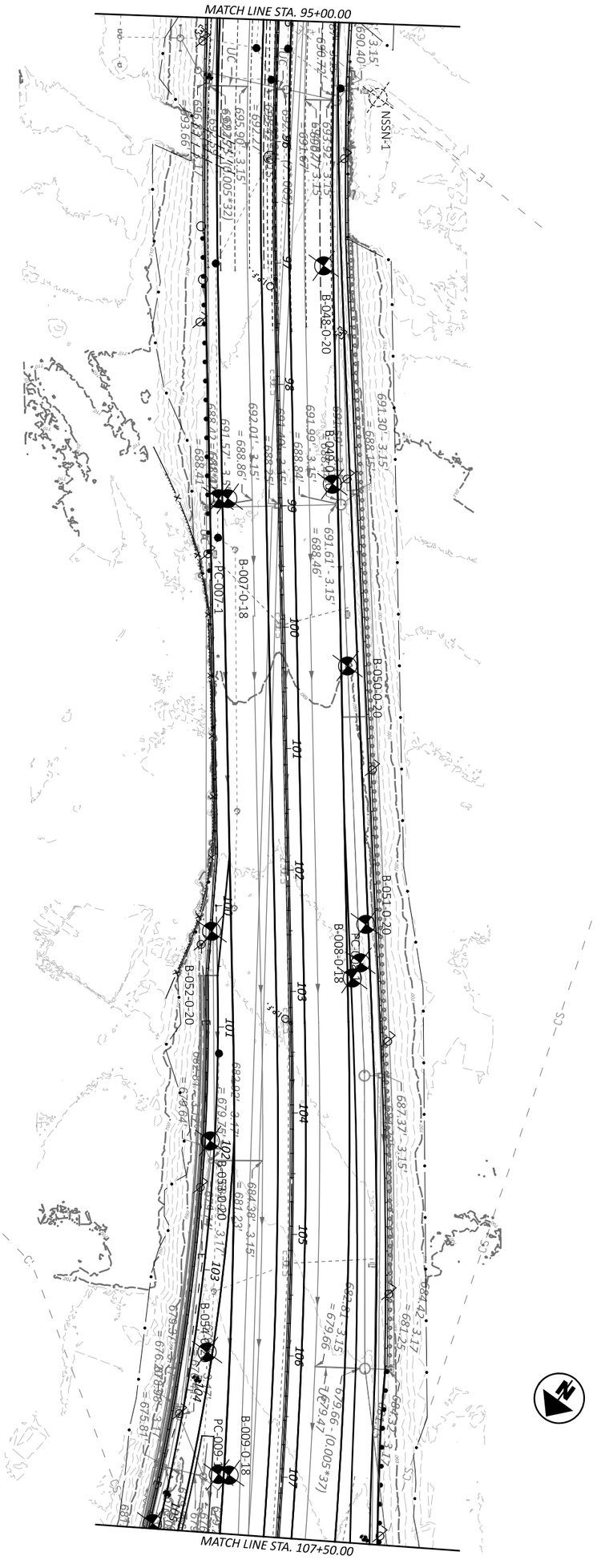


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA. 95+00 TO STA. 107+50

HORIZONTAL SCALE IN FEET
0 50
25 100

| DESIGN AGENCY | DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|---|
| TRC | EB | SDM 11/18/25 | 105743 | 8 TOTAL 57 | P.1086 TOTAL P.1135 |

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:54:37 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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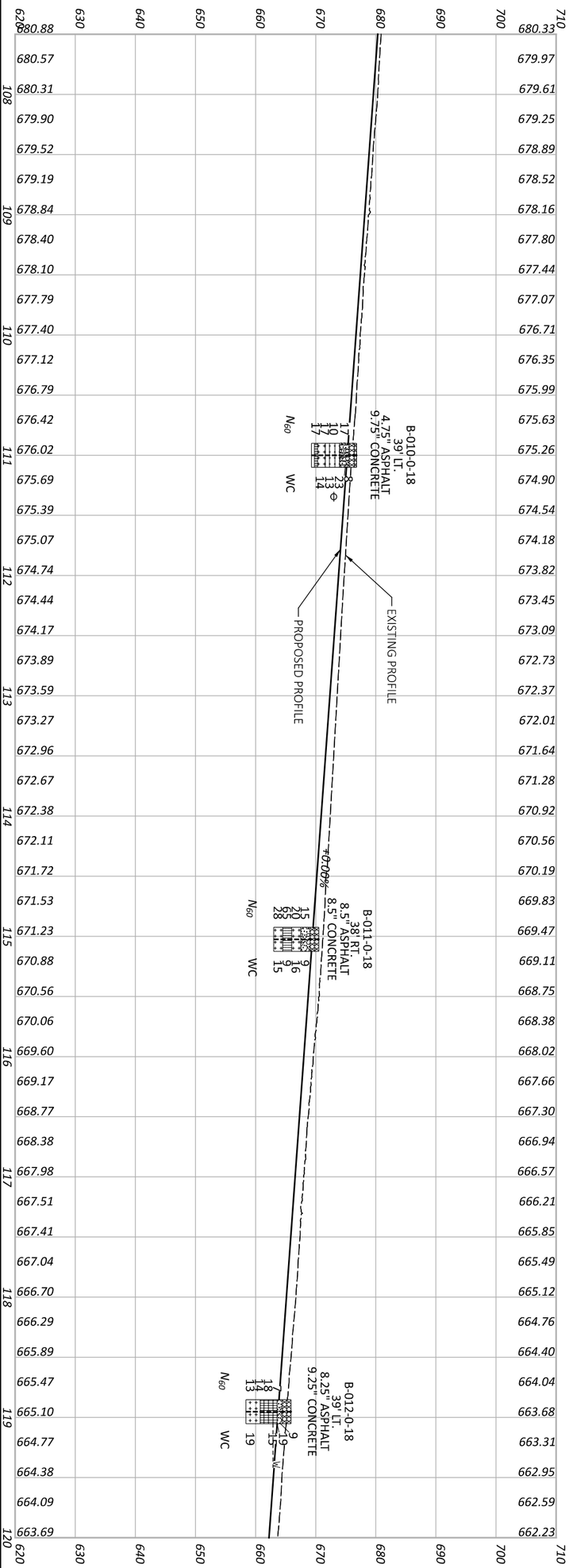


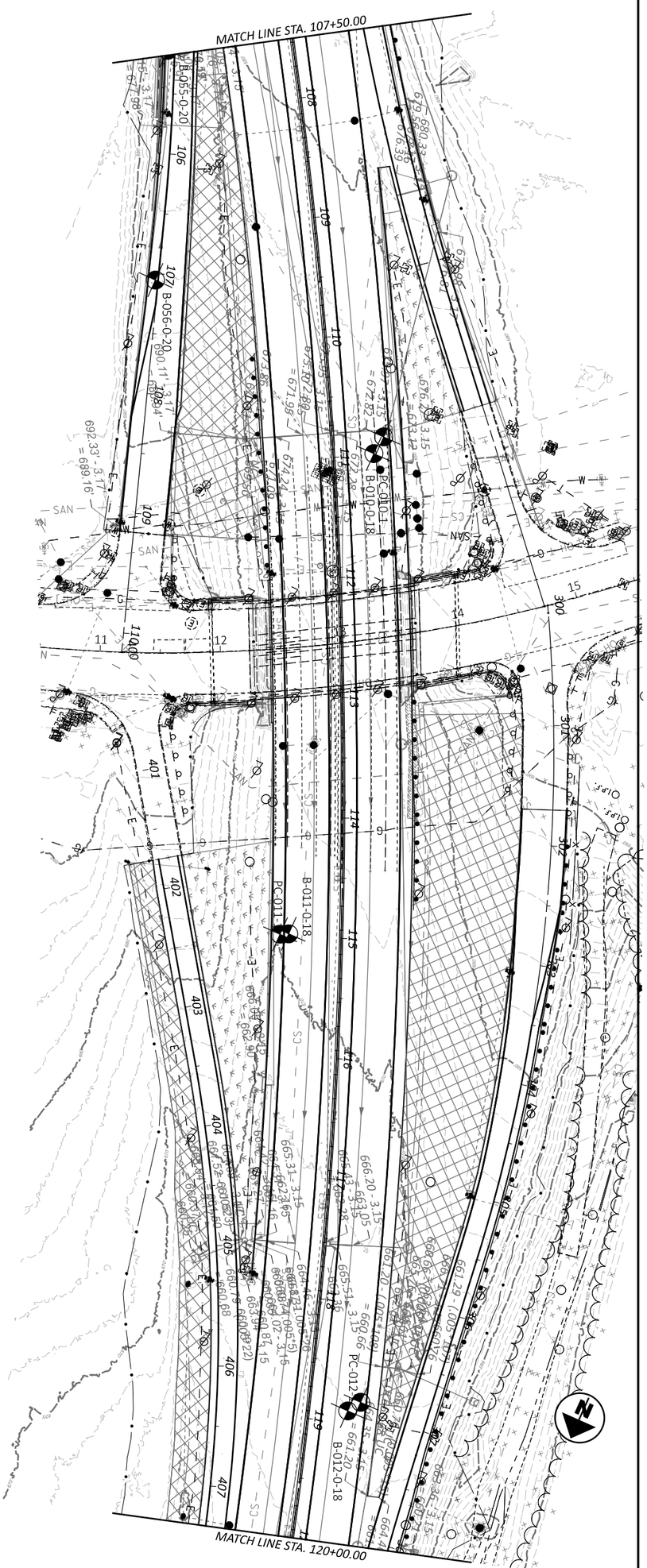


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA. 107+50 TO STA. 120+00

HORIZONTAL SCALE IN FEET
0 50
25 100

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1087 / P.1135 TOTAL | 9 / 57 TOTAL | 105743 | SDM 11/18/25 | EB | TRC |

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan S PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:54:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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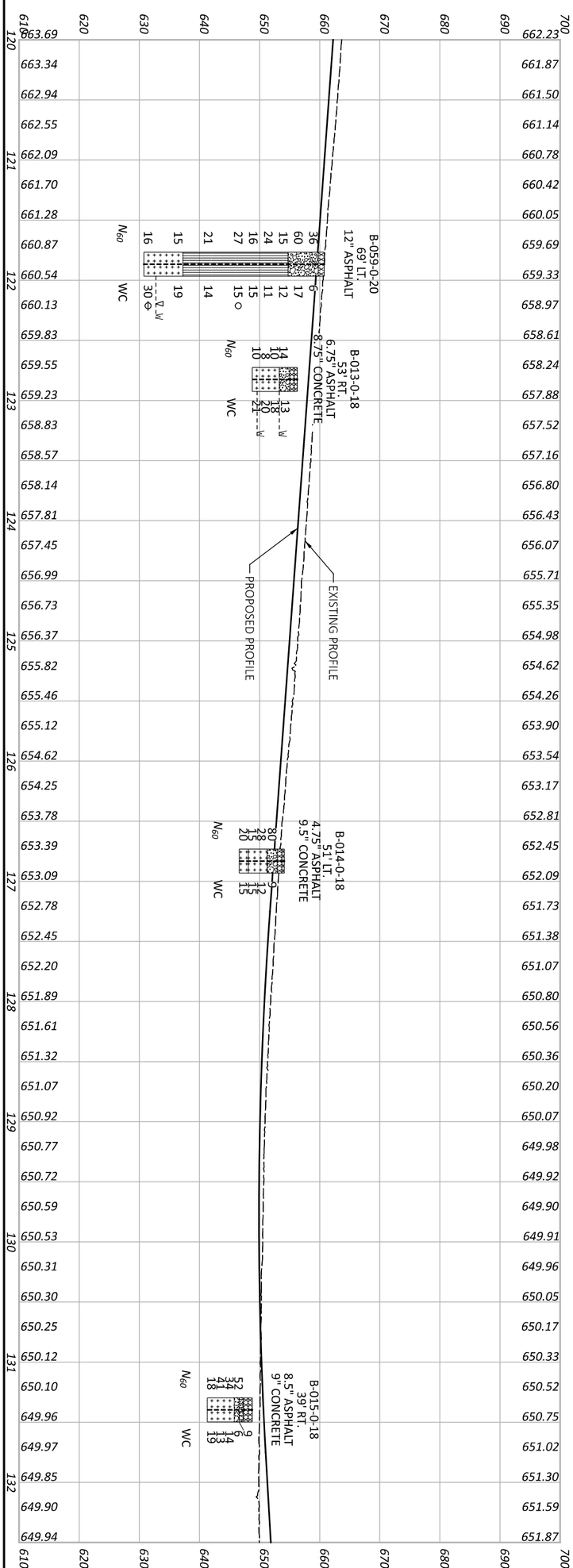


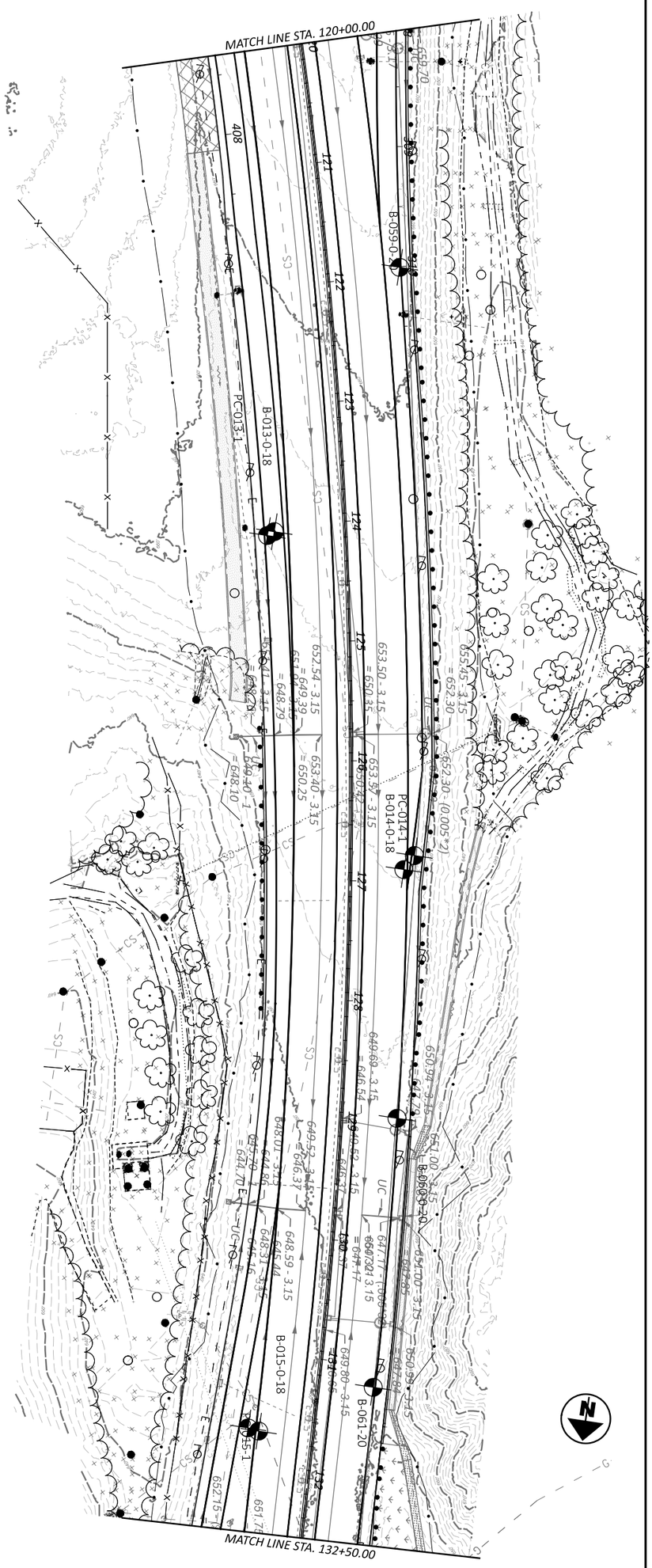


| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1088 TOTAL P.1135 | SUBSET 10 TOTAL 57 | PROJECT ID 105743 | REVIEWER SDM 11/18/25 | DESIGNER EB | DESIGN AGENCY TRC |

## SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 120+00 TO STA. 132+50

HORIZONTAL SCALE IN FEET
0 50
25 100

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:55:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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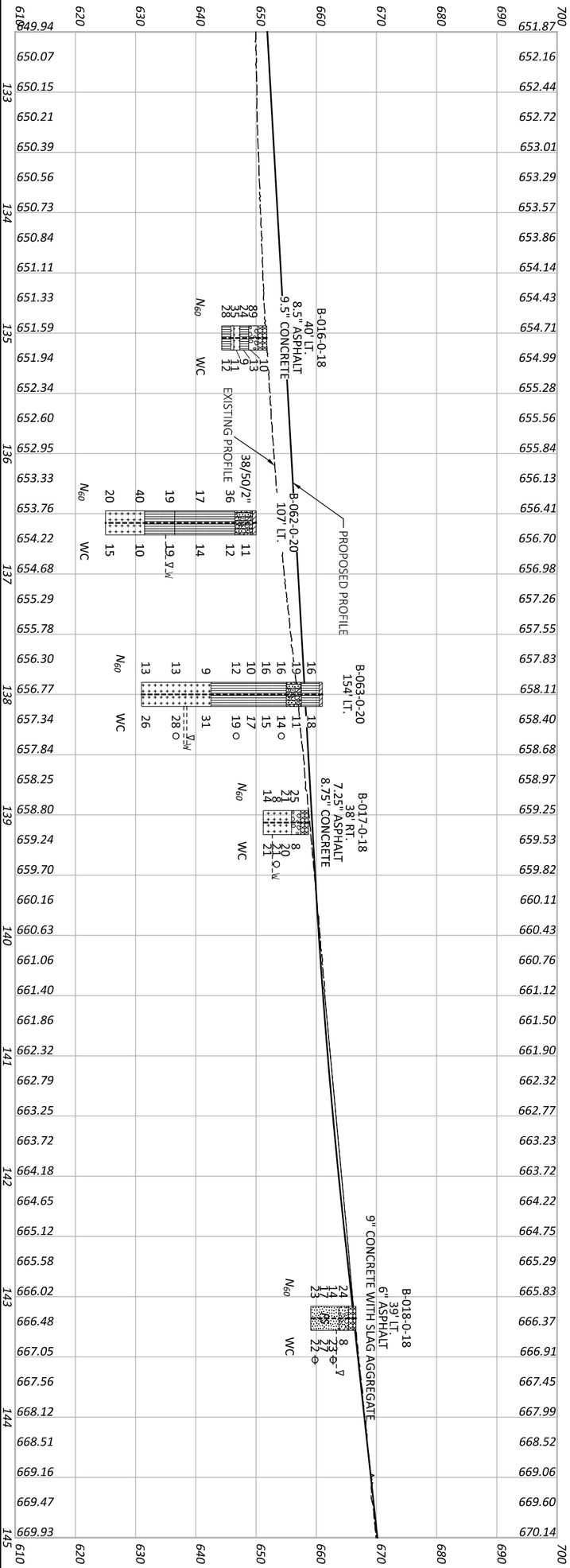


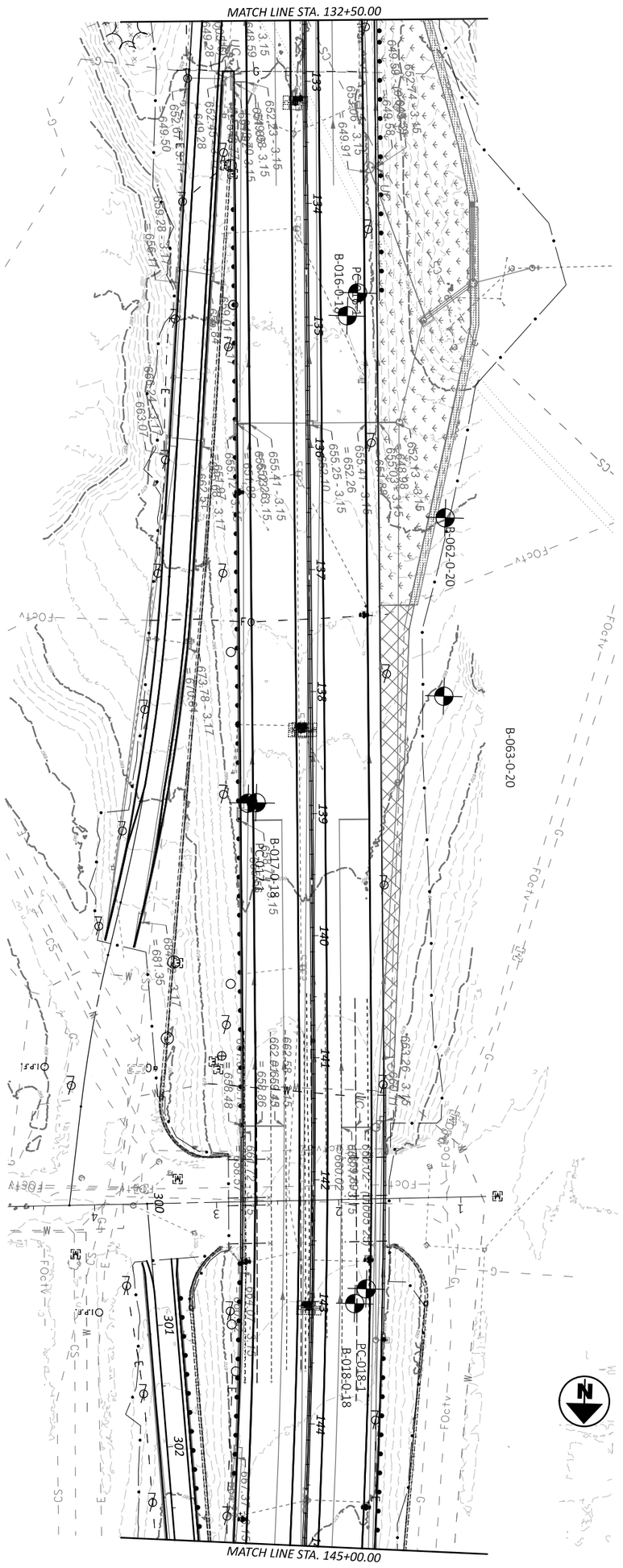


| DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|
| EB | SDM 11/18/25 | 105743 | 11 TOTAL 57 | P.1089 TOTAL P.1135 |

DESIGN AGENCY: TRC

## SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 132+50 TO STA. 145+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 7 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:55:27 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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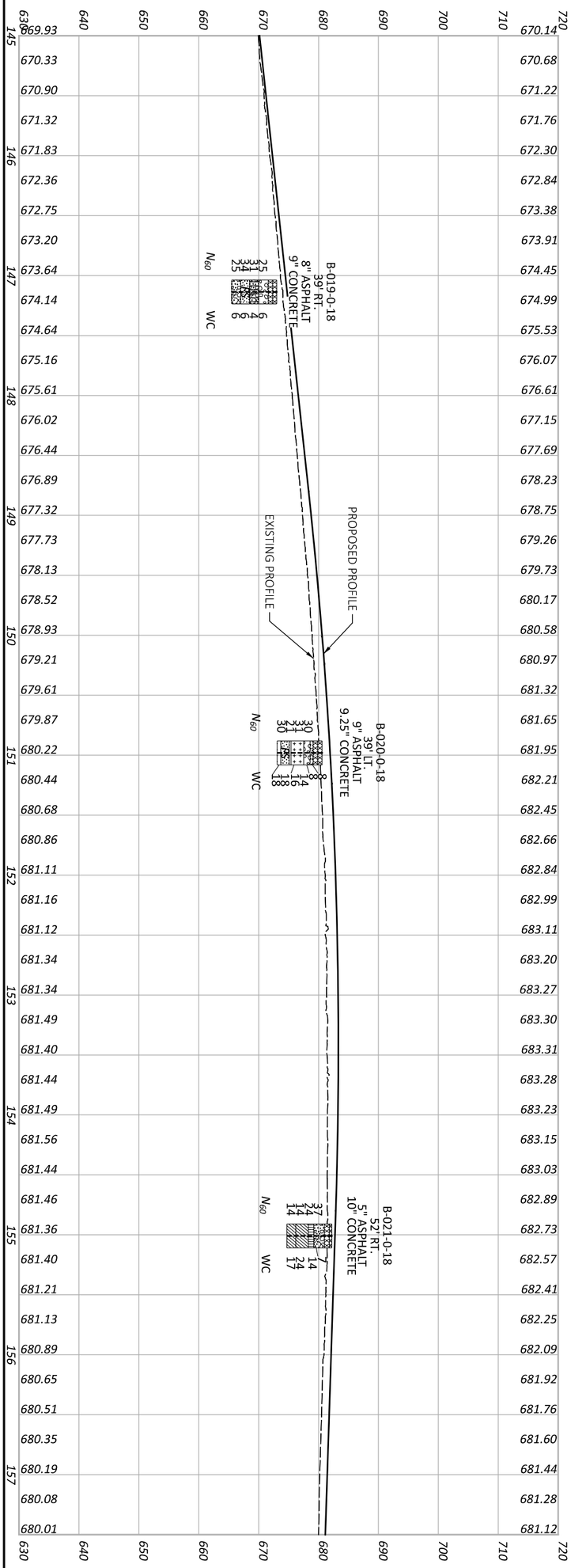


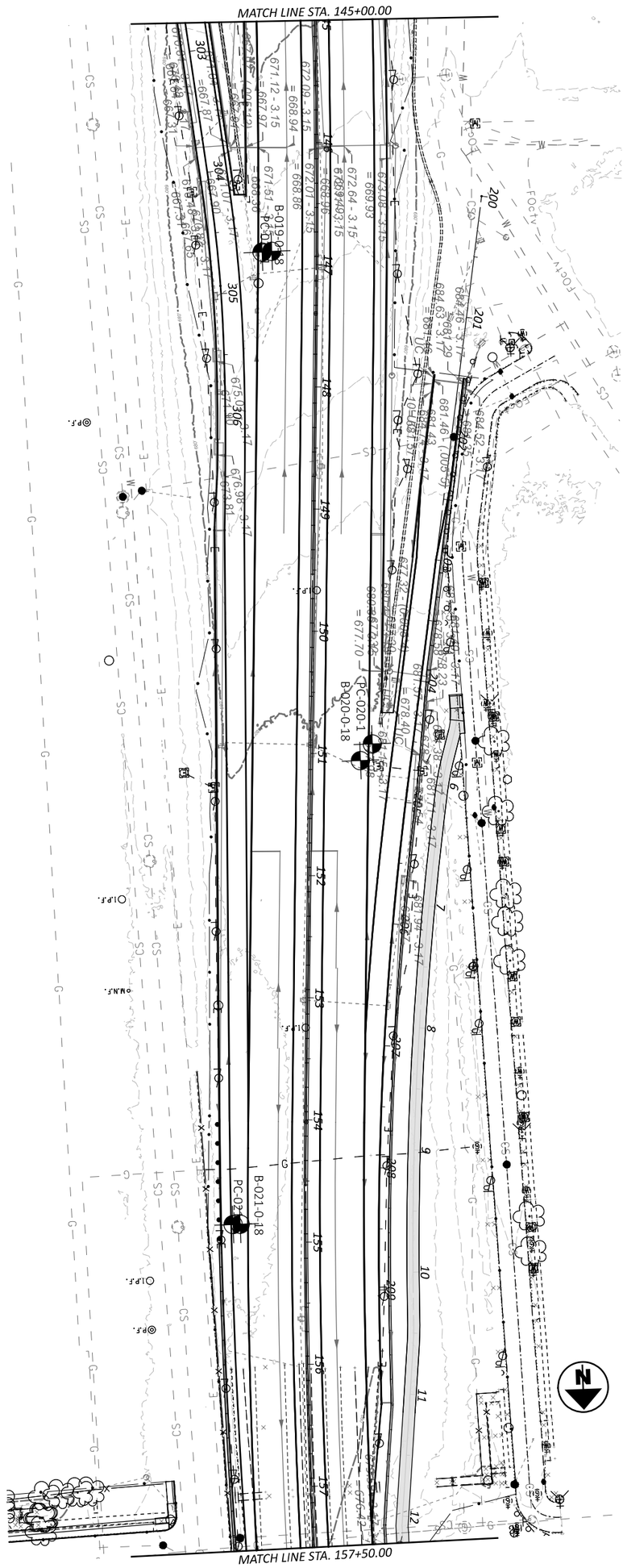


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA. 145+00 TO STA. 157+50

HORIZONTAL SCALE IN FEET
0 50
25 100

| DESIGN AGENCY | DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|---|
| TRC | EB | SDM 11/18/25 | 105743 | 12 TOTAL 57 | P.1090 TOTAL P.1135 |

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:55:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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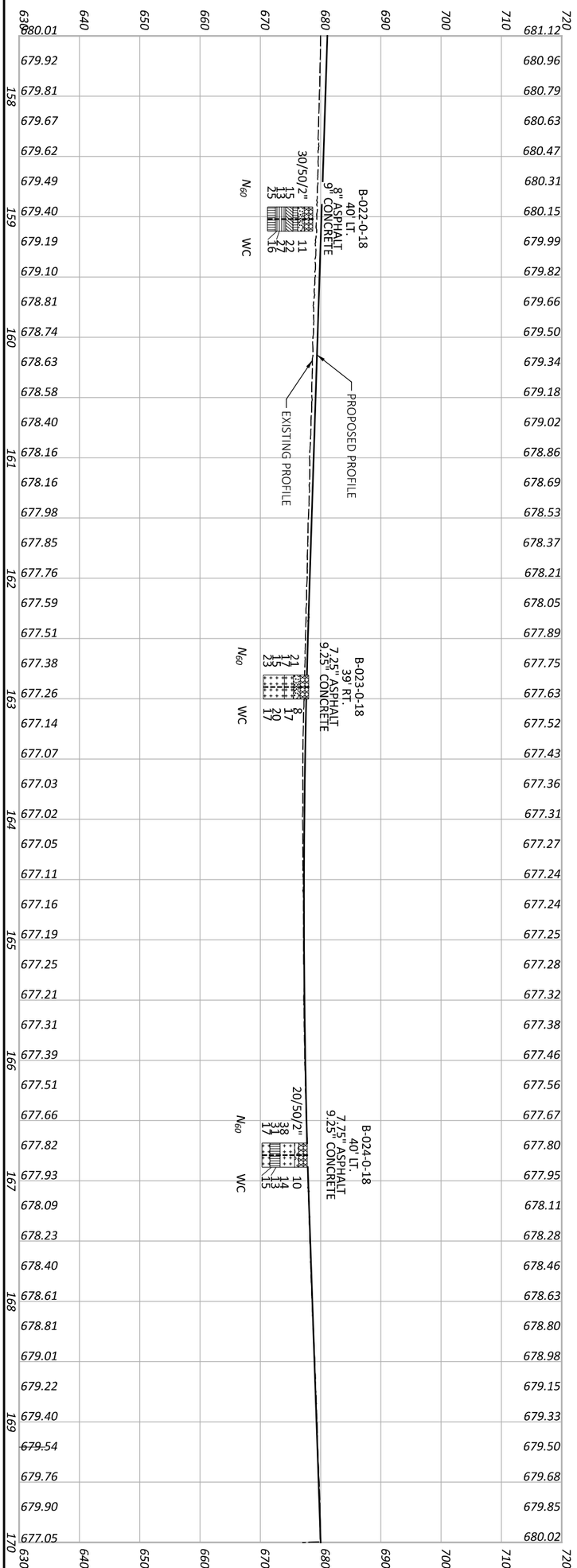


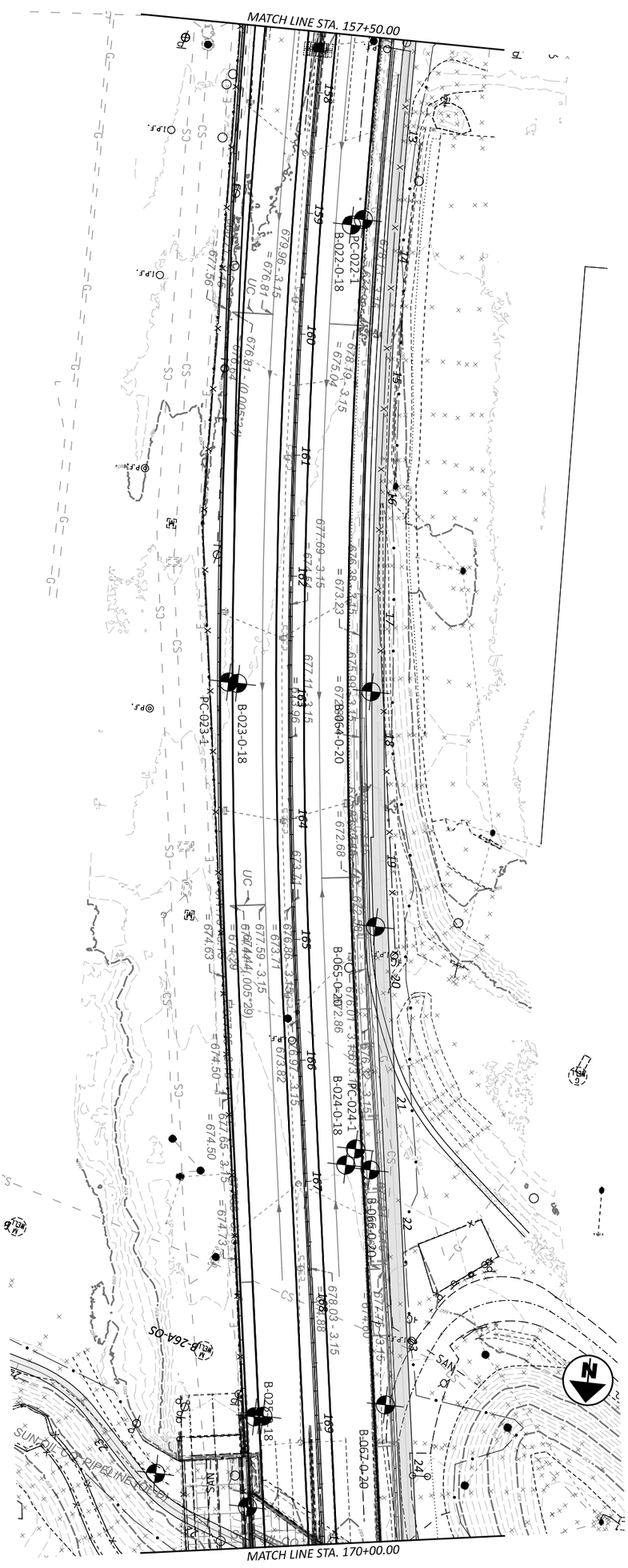


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA, 157+50 TO STA. 170+00

HORIZONTAL SCALE IN FEET
0 50
25 100

| DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|
| EB | SDM 11/18/25 | 105743 | 13 TOTAL 57 | P.1091 TOTAL P.1135 |

DESIGN AGENCY: TRC

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:56:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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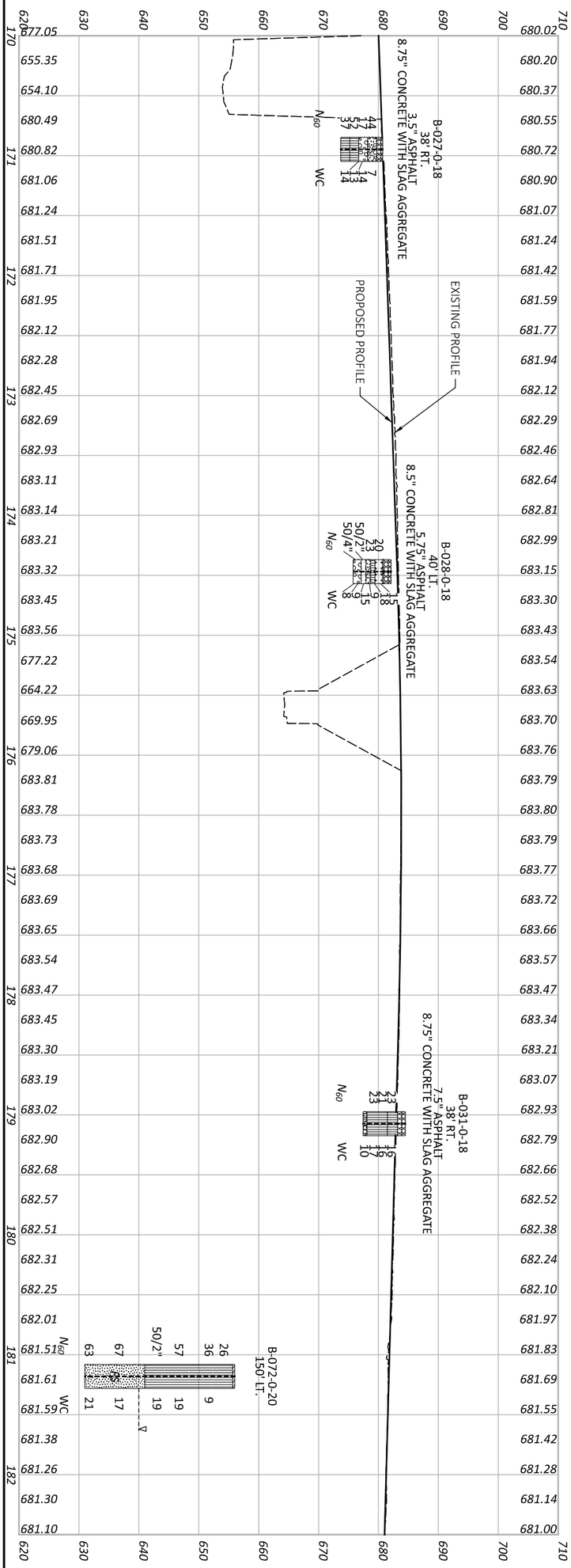


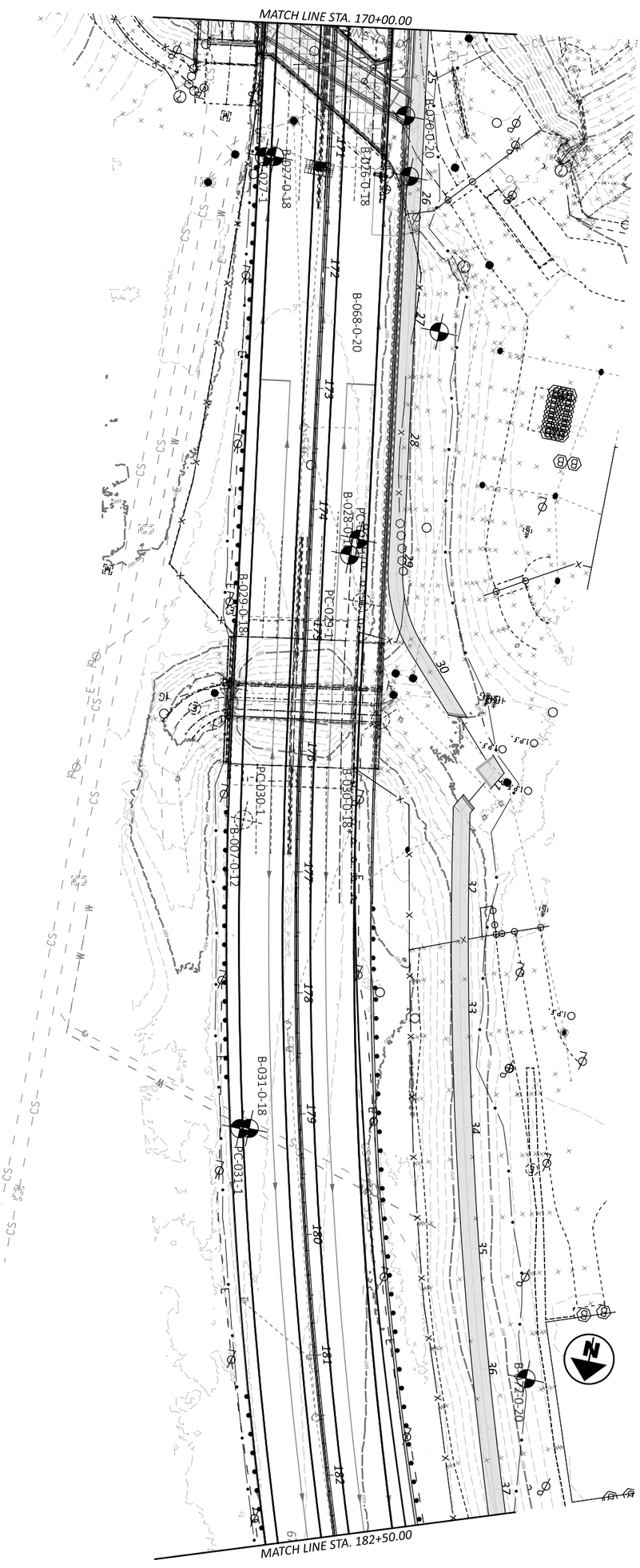


| DESIGN AGENCY | DESIGNER | REVIEWER | PROJECT ID | SUBSET | SHEET |
|---|---|---|---|---|---|
| TRC | EB | SDM 11/18/25 | 105743 | 14 TOTAL 57 | P.1092 P.1135 |

## SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 170+00 TO STA. 182+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_i077 - Plan 10 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:56:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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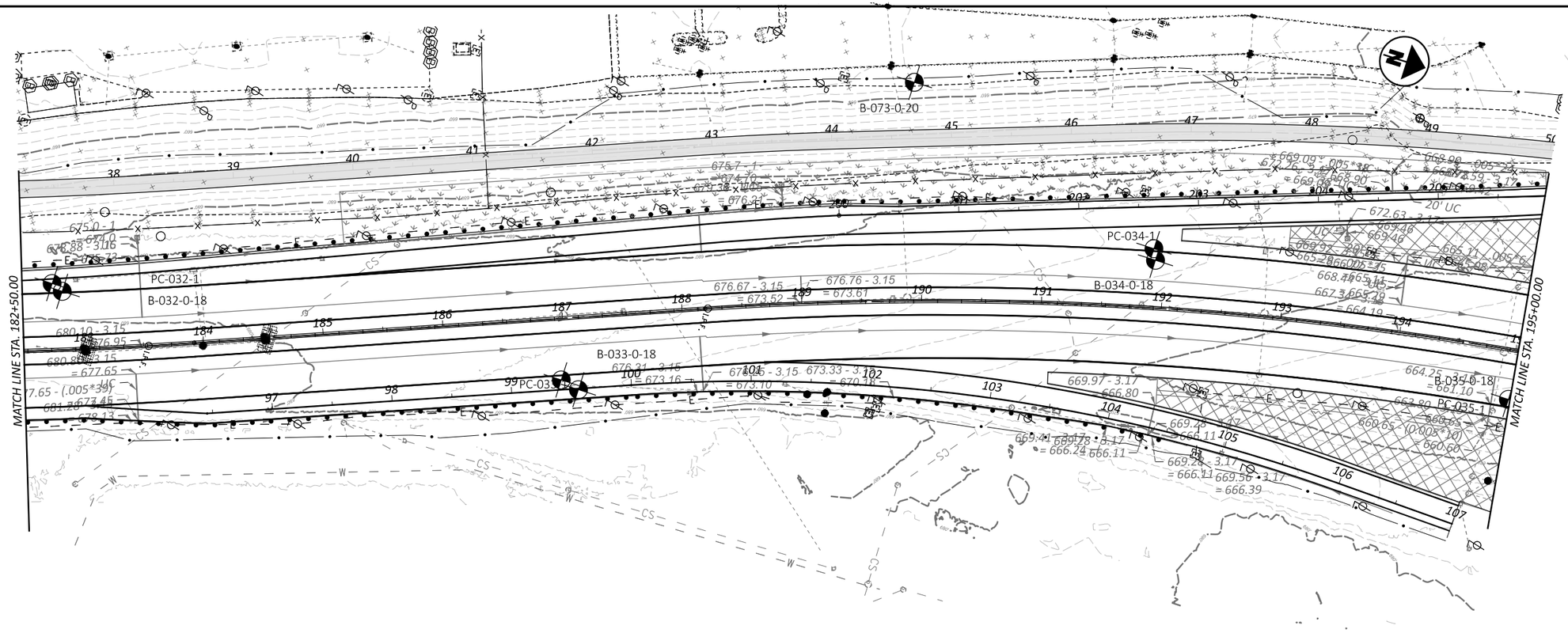
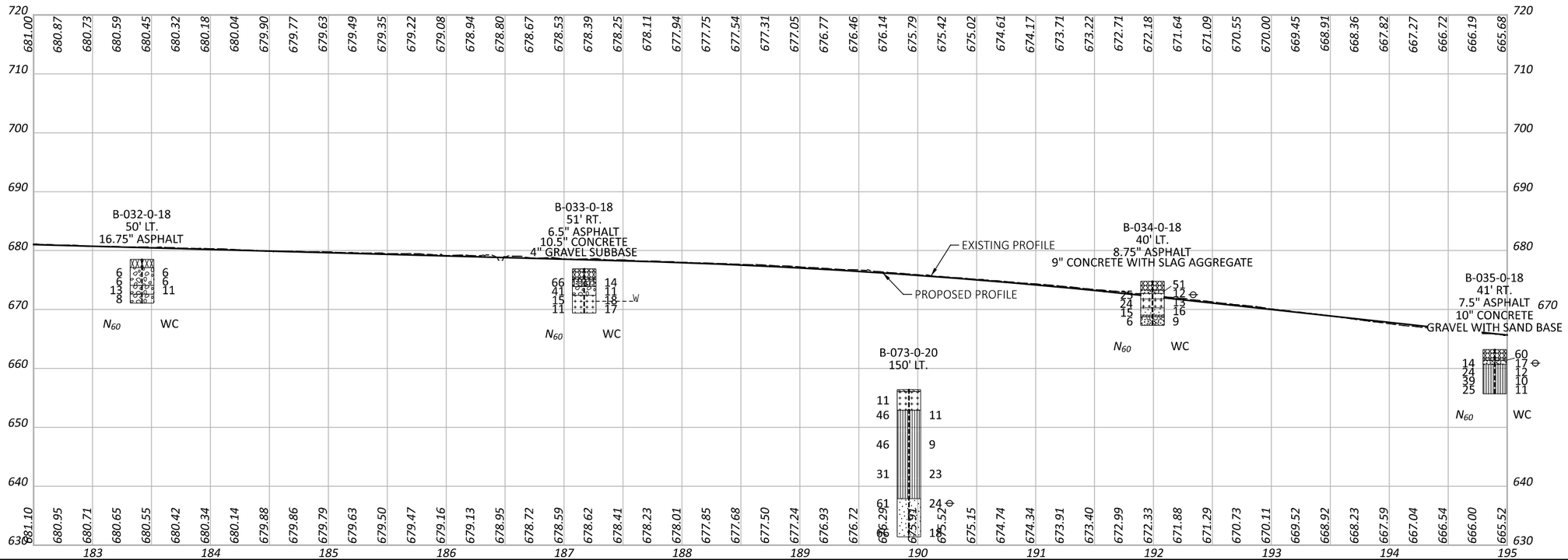
# CUY-77-11.41 - PART 1




HORIZONTAL SCALE IN FEET
0 25 50 100

## SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 182+50 TO STA. 195+00

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | EB |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 15 |
| TOTAL | 57 |
| SHEET | P.1093 |
| TOTAL | P.1135 |

# CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:56:31 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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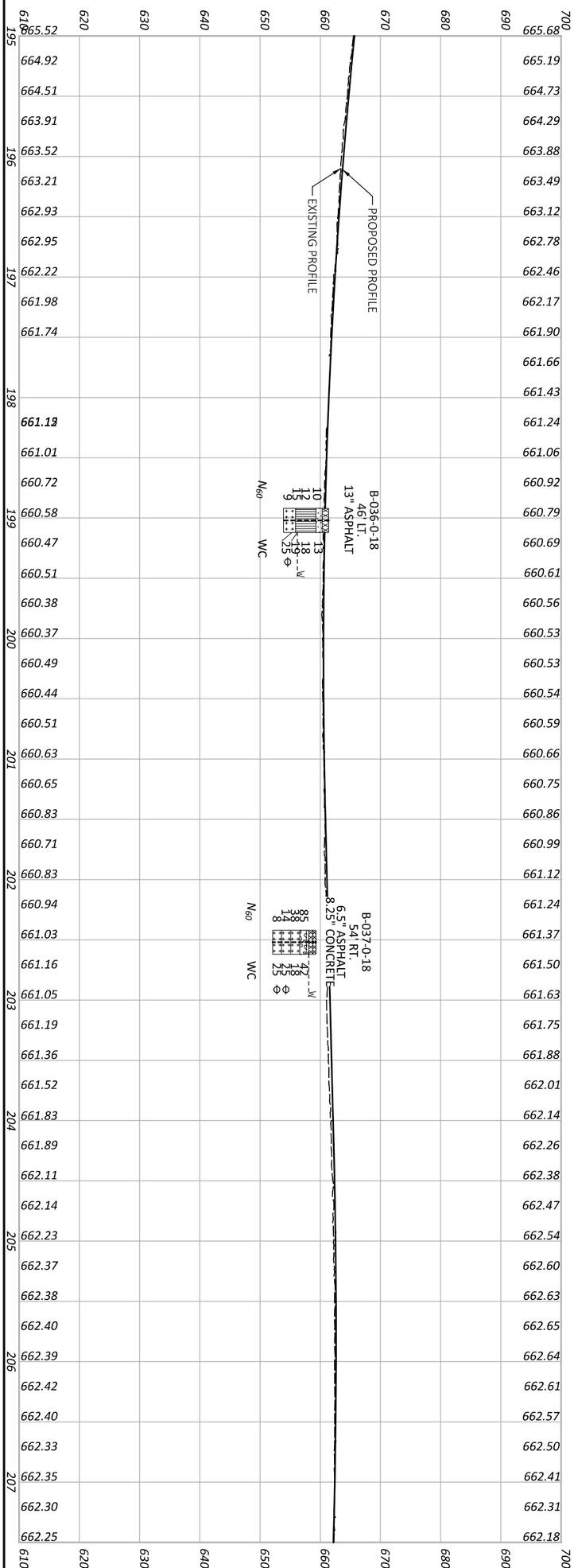


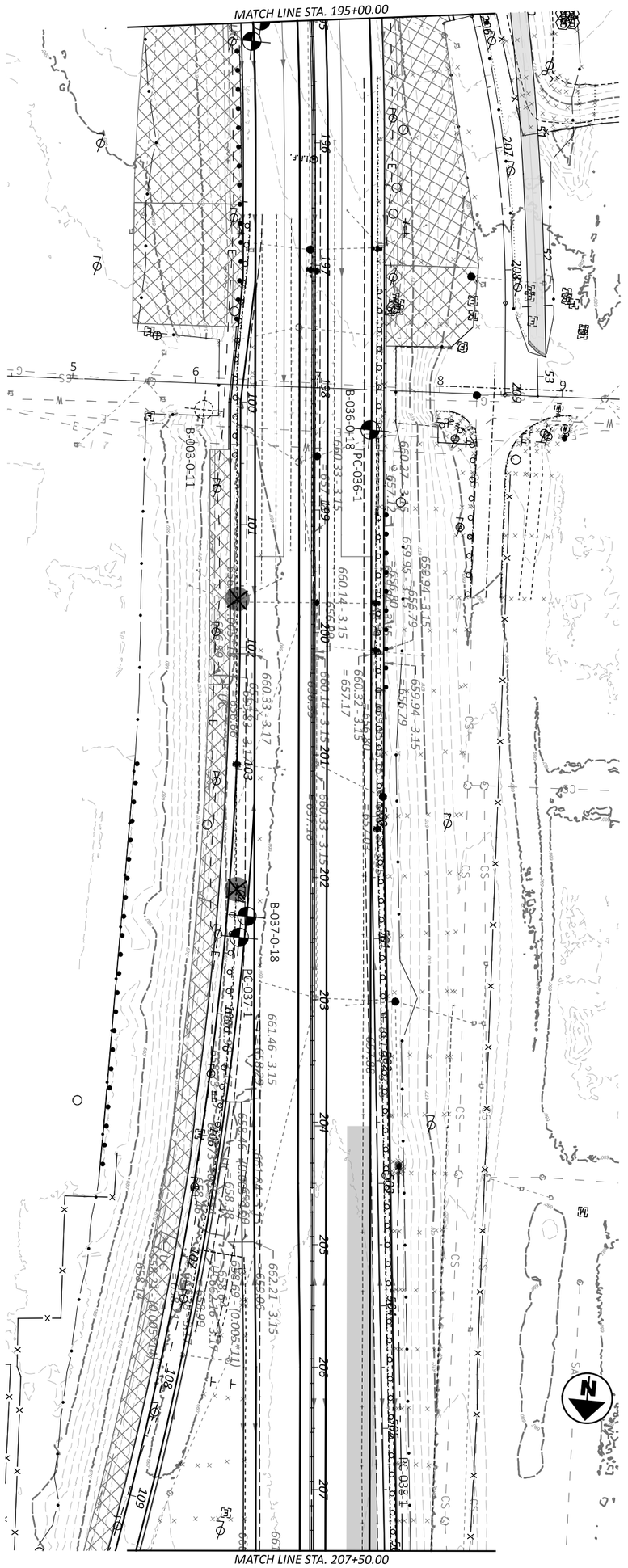


SOIL PLAN AND PROFILE - ROADWAY
CUY-77 - STA. 195+00 TO STA. 207+50

HORIZONTAL SCALE IN FEET
0 50
25 100

| SHEET | TOTAL | SUBSET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|---|---|
| P.1094 | P.1135 | 16 | 57 | 105743 | SDM 11/18/25 | EB | TRC |

MODEL: CLP_I077 - Plan 12 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 11:56:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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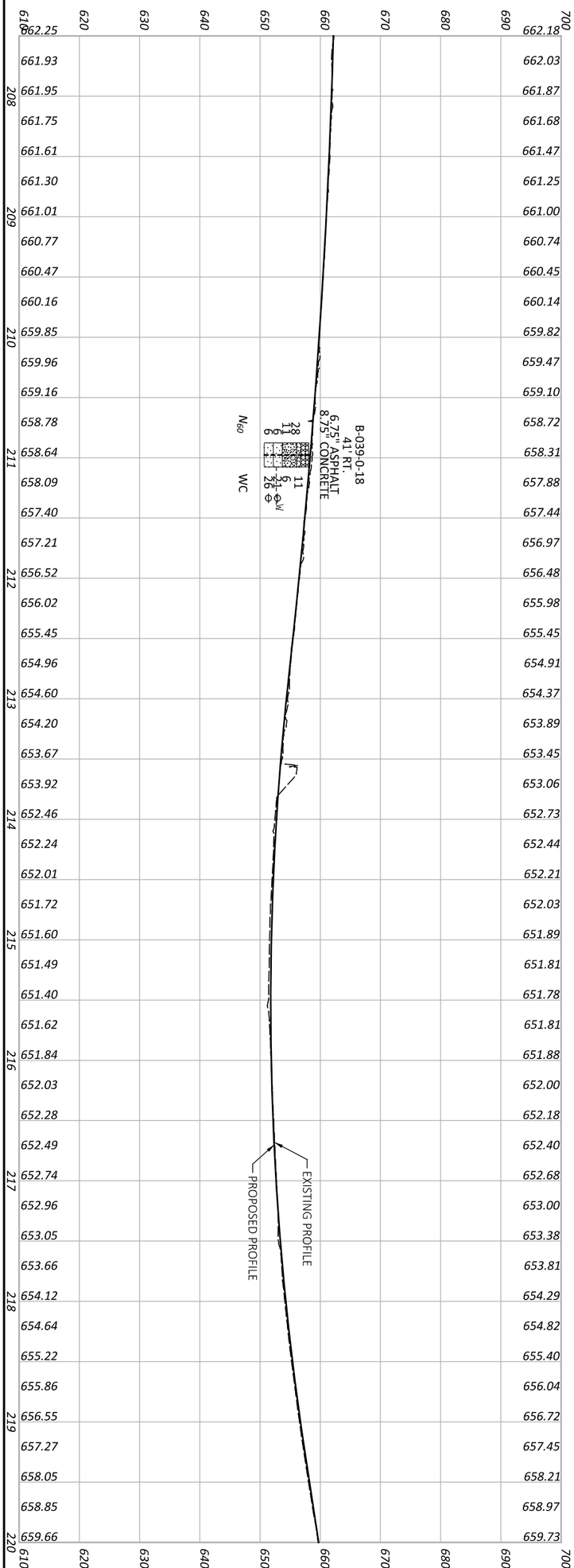
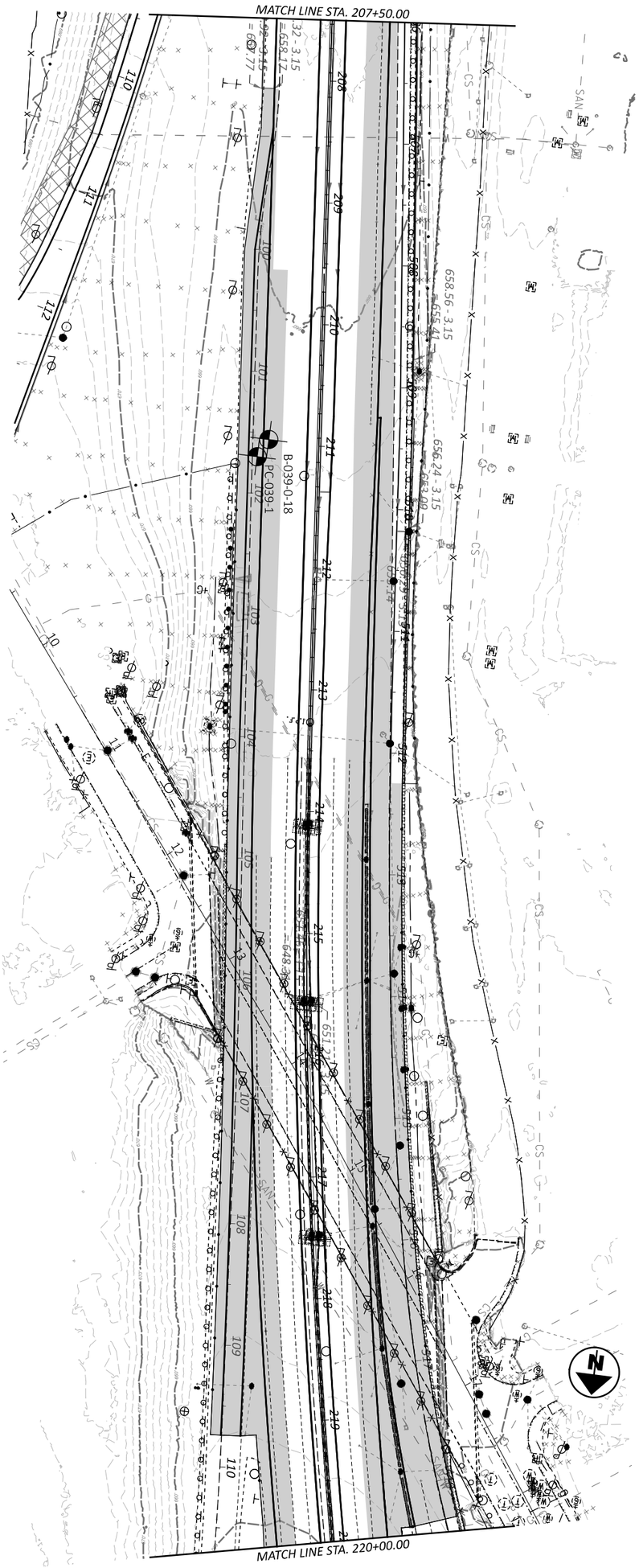
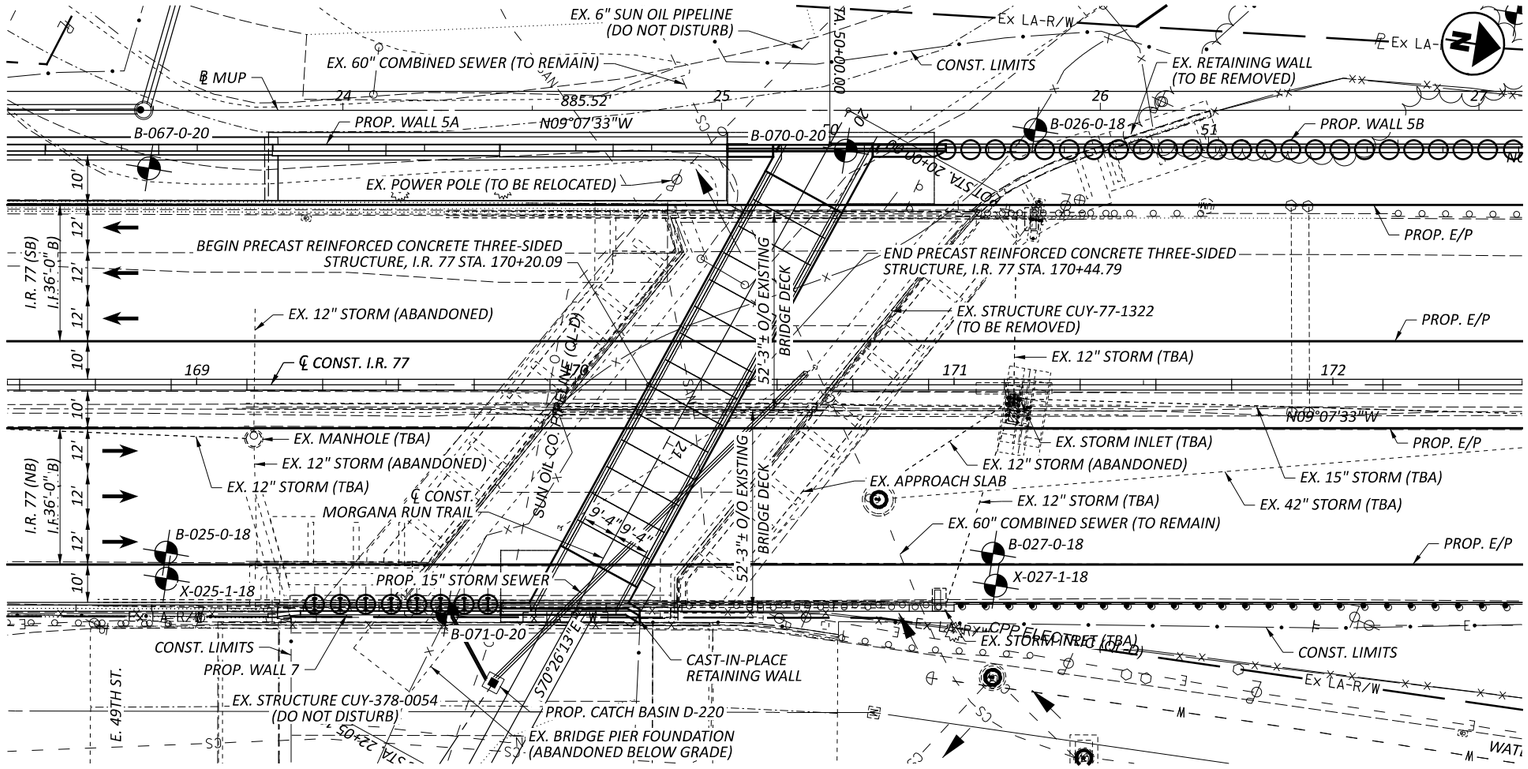


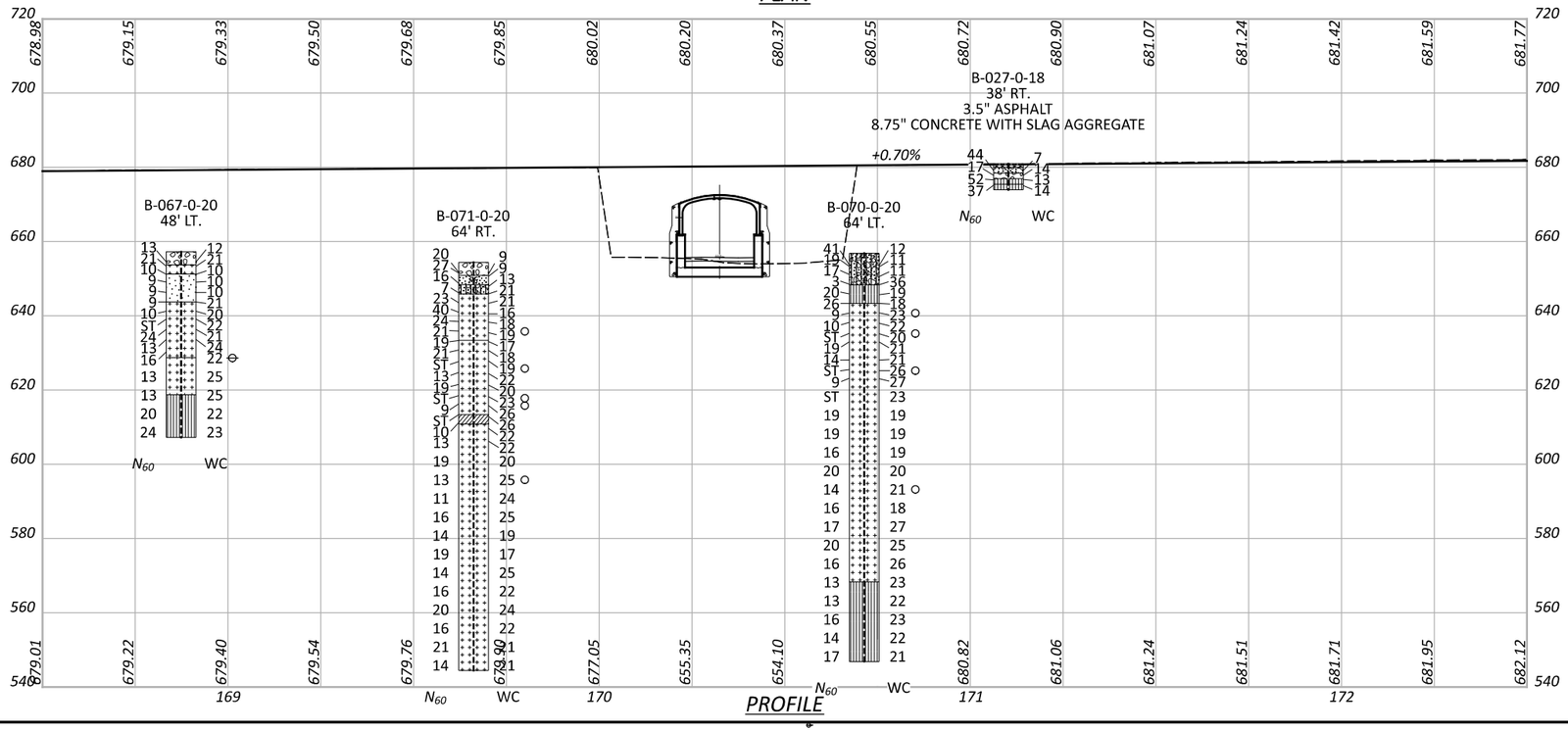

# SOIL PLAN AND PROFILE - ROADWAY
## CUY-77 - STA. 207+50 TO STA. 220+00

HORIZONTAL SCALE IN FEET
0 50
25 100

| | | | | | |
|---|---|---|---|---|---|
| SHEET P.1095 | TOTAL P.1135 | SUBSET 17 | TOTAL 57 | PROJECT ID 105743 | REVIEWER SDM 11/18/25 |
| DESIGNER EB | DESIGN AGENCY TRC | | | | |




PLAN




PROFILE

CUY-77-11.41 - PART 1

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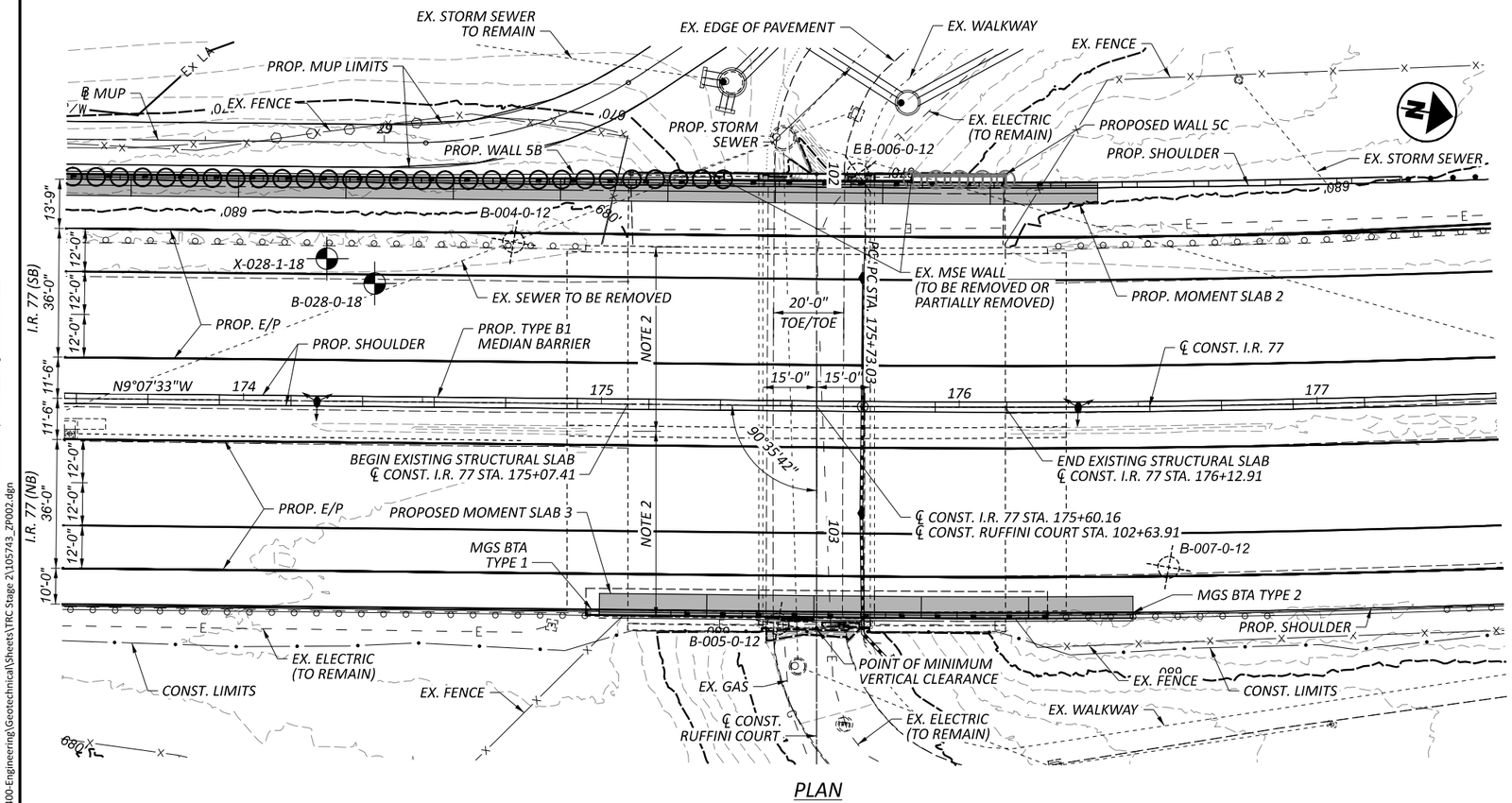
HORIZONTAL SCALE IN FEET
0 10 20 40

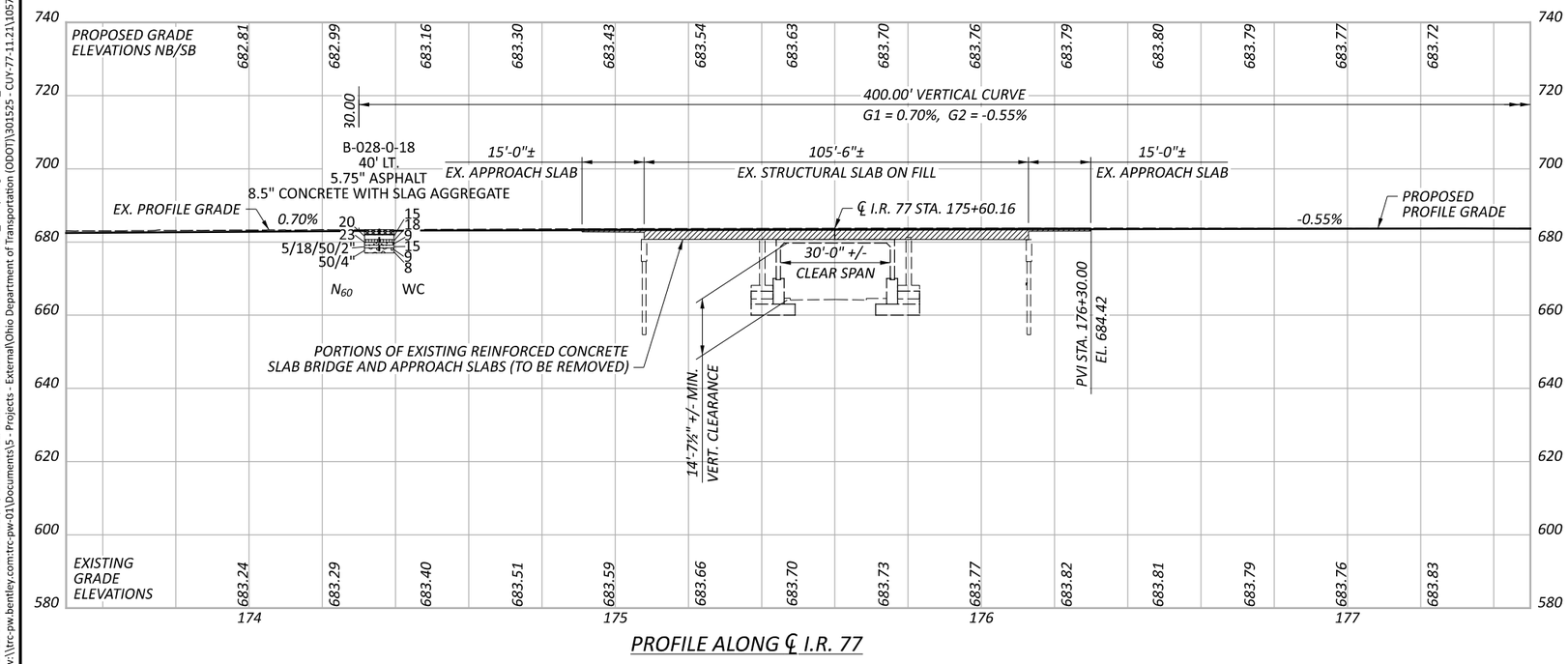
GEOTECHNICAL PROFILE - STRUCTURES
BRIDGE NO. CUY-77-1322 OVER ABAND. W&LE RR (FUTURE MORGANA TRAIL)

DESIGN AGENCY
TRC

DESIGNER NMC
REVIEWER SDM 11-18-25
PROJECT ID 105743
SUBSET 18 | TOTAL 57
SHEET P.1096 | TOTAL P.1135




PLAN




PROFILE ALONG ℄ I.R. 77

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - STRUCTURES
# BRIDGE NO. CUY-77-1331 OVER RUFFINI COURT

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 19 |
| TOTAL | 57 |
| SHEET | P.1097 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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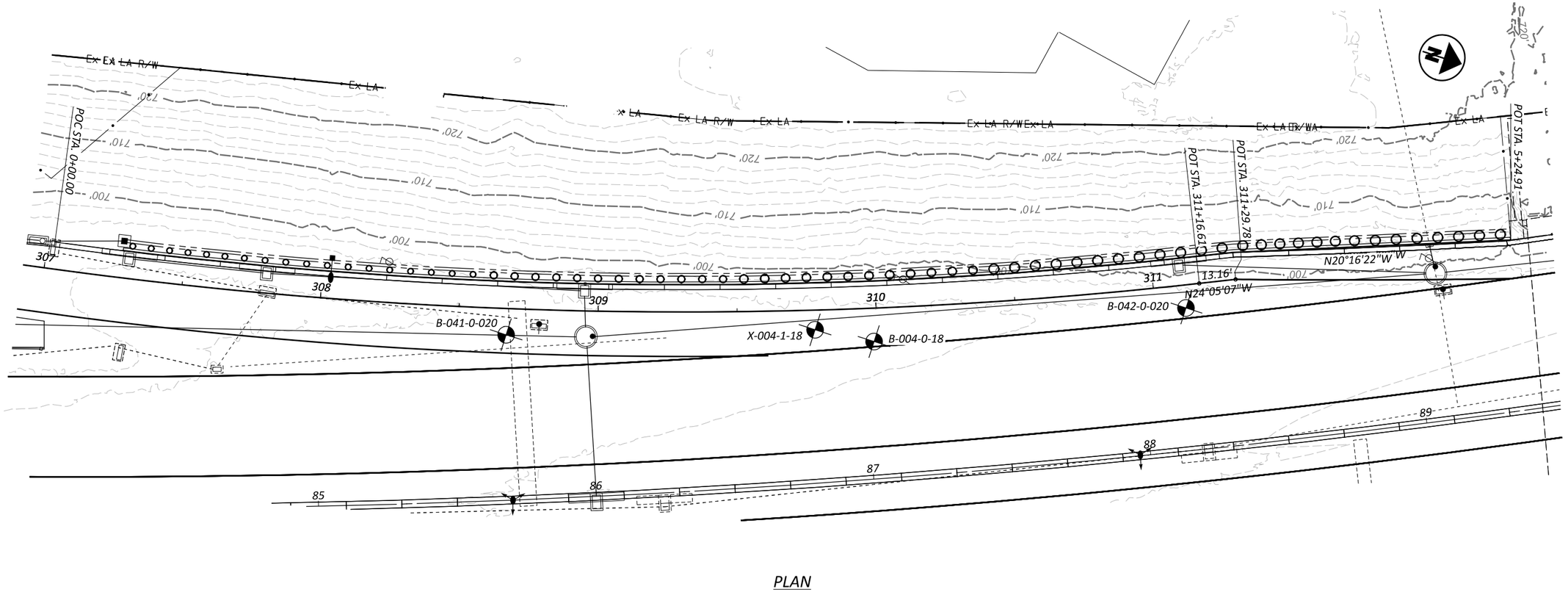
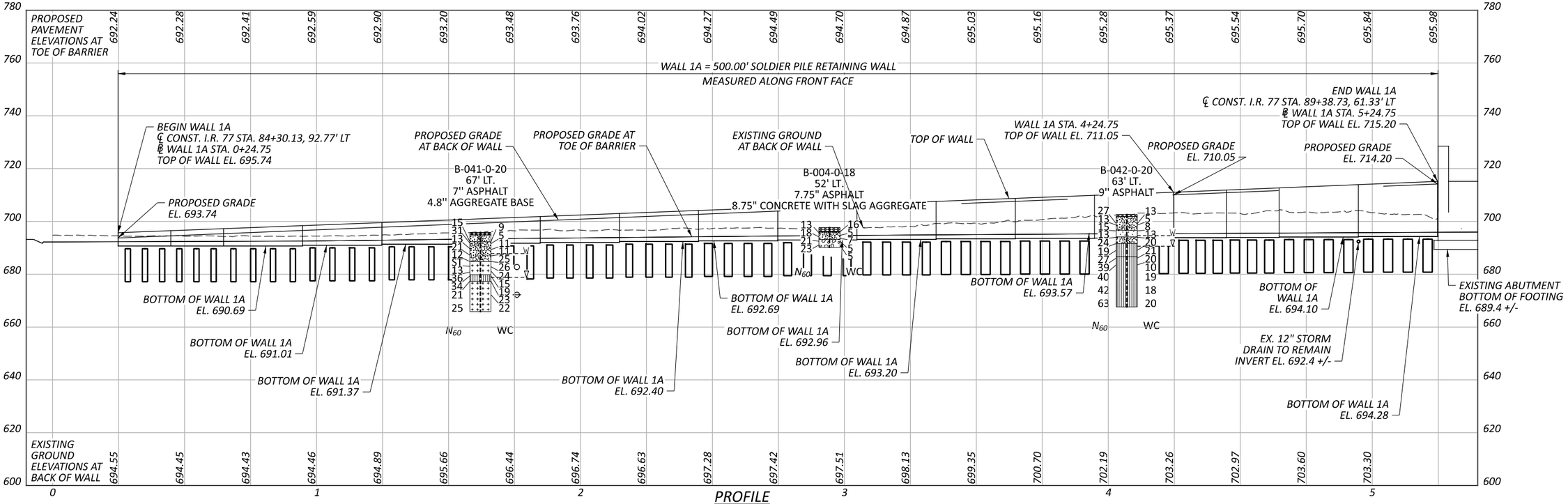
CUY-77-11.41 - PART 1




PLAN



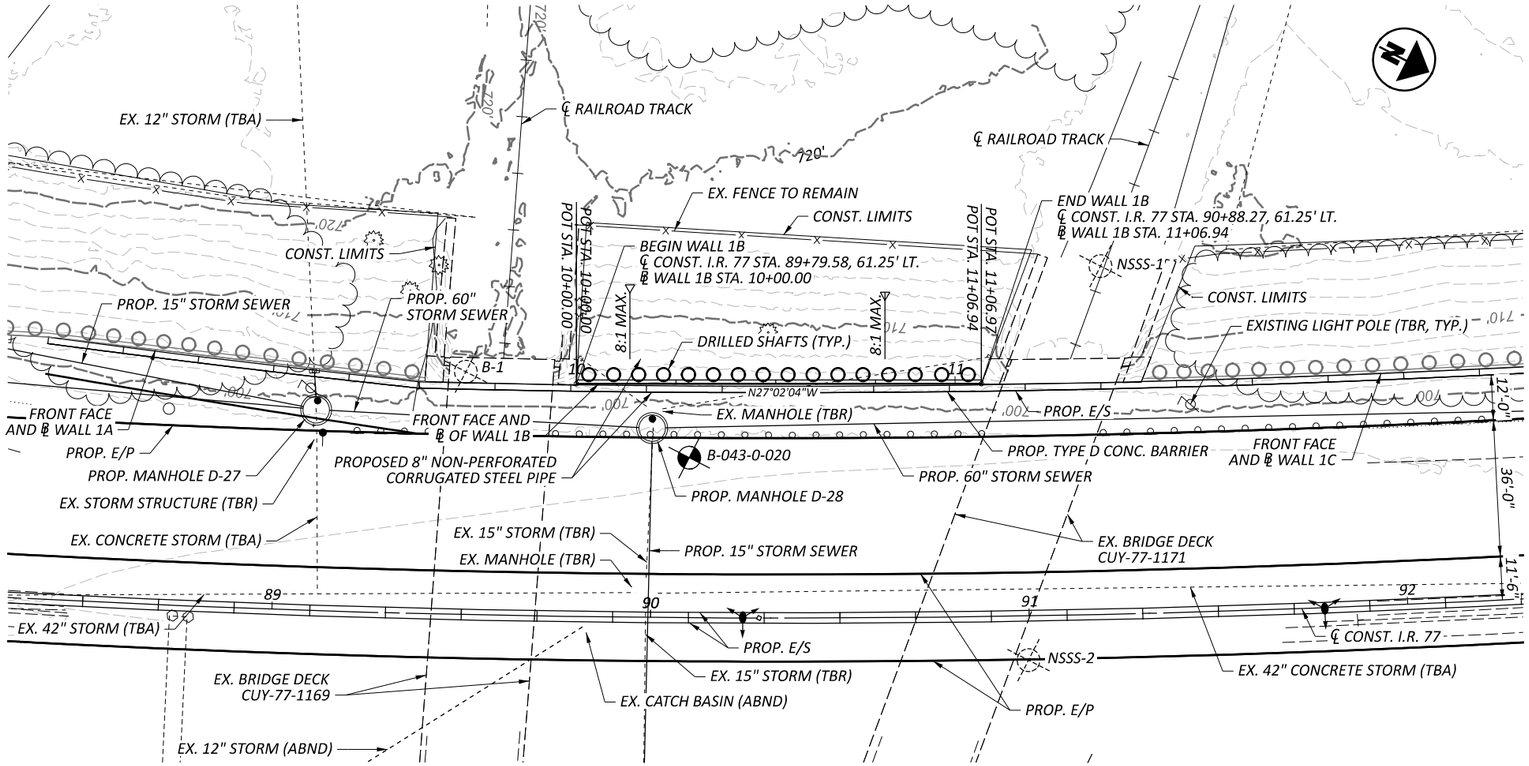

PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

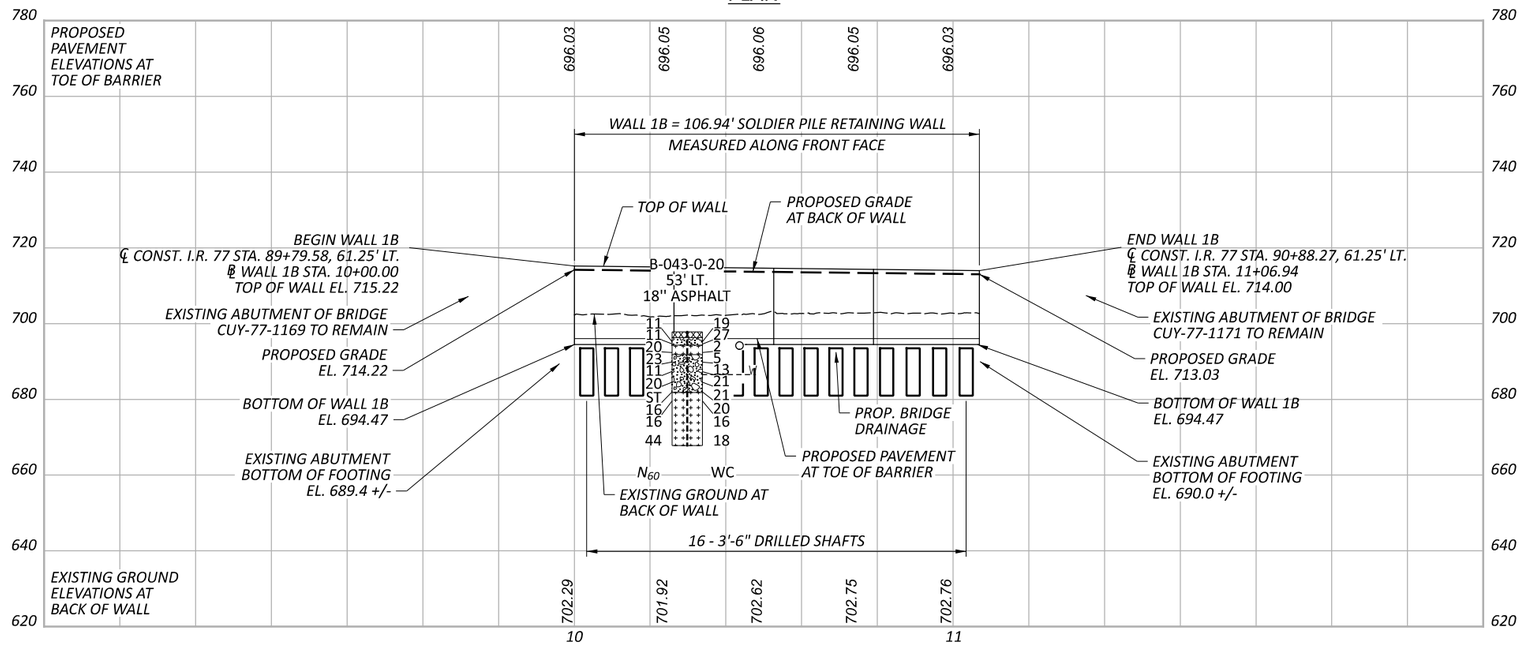
# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 1A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 20 |
| TOTAL | 57 |
| SHEET | P.1098 |
| TOTAL | P.1135 |




PLAN




ELEVATION

(STATIONING ALONG ℄ WALL 1B)

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 1B

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 21 / 57 |
| SHEET / TOTAL | P.1099 / P.1135 |

CUY-77-11.41 - PART 1

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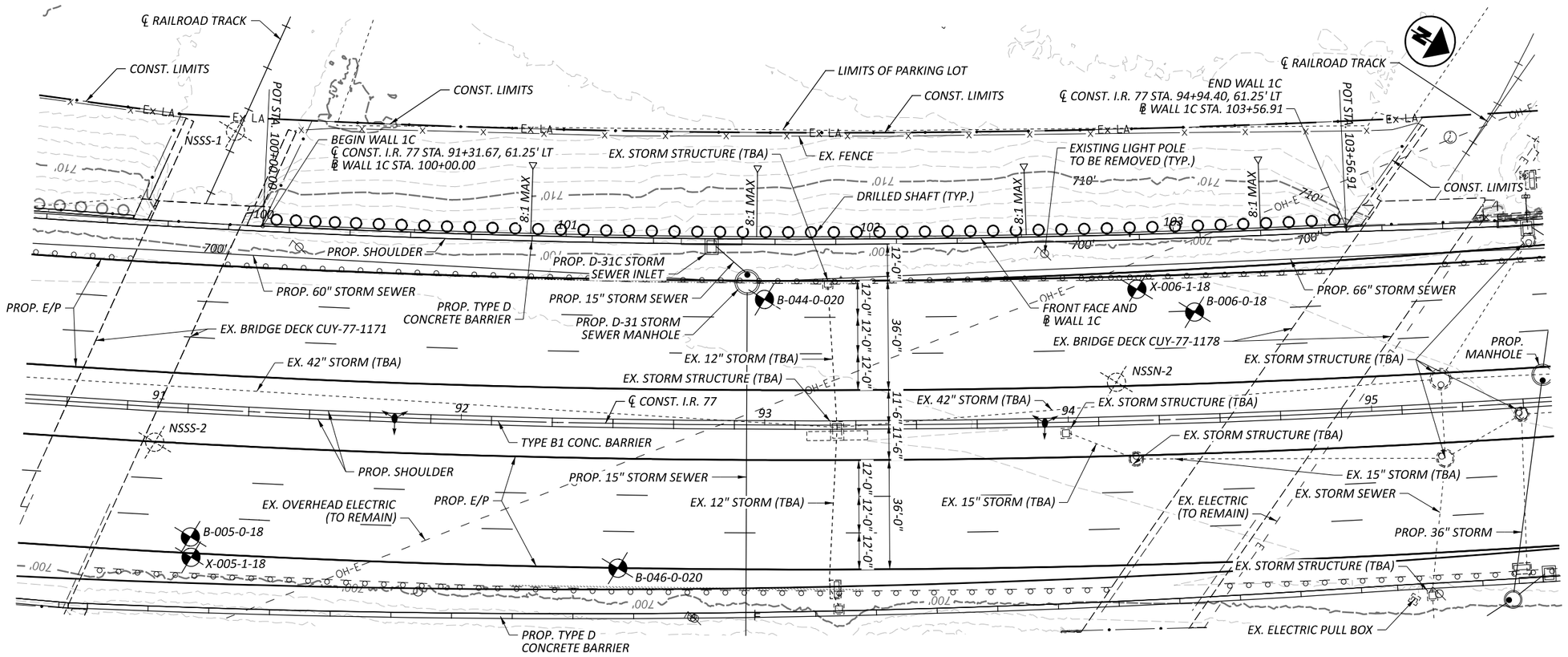


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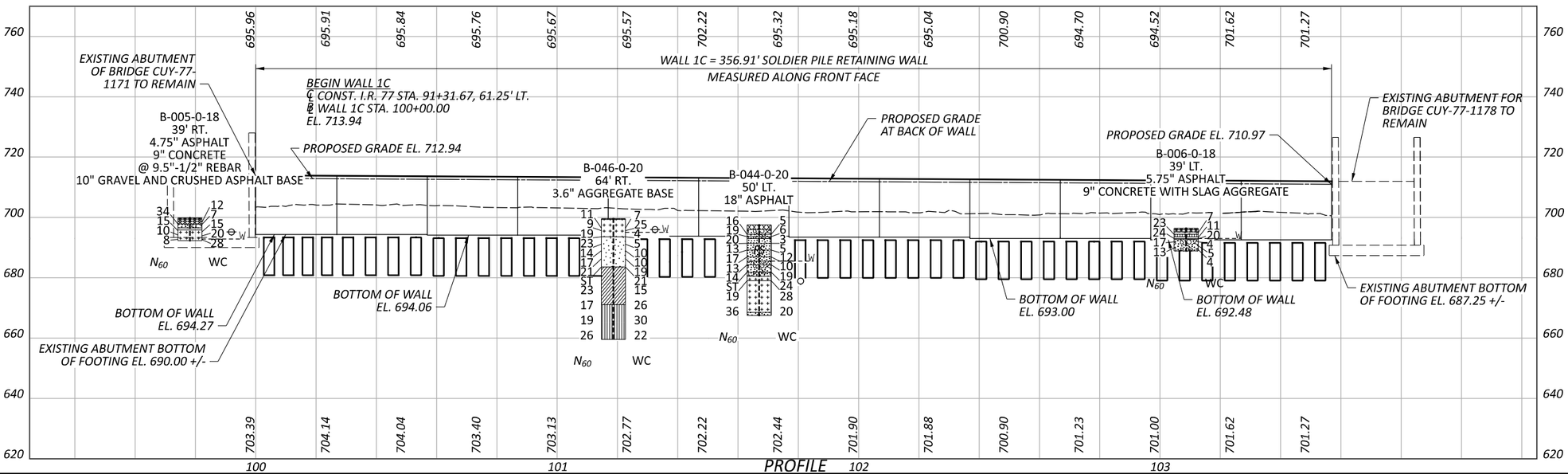


PROFILE

HORIZONTAL
SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 1C

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 22 / 57 |
| SHEET / TOTAL | P.1100 / P.1135 |

CUY-77-11.41 - PART 1

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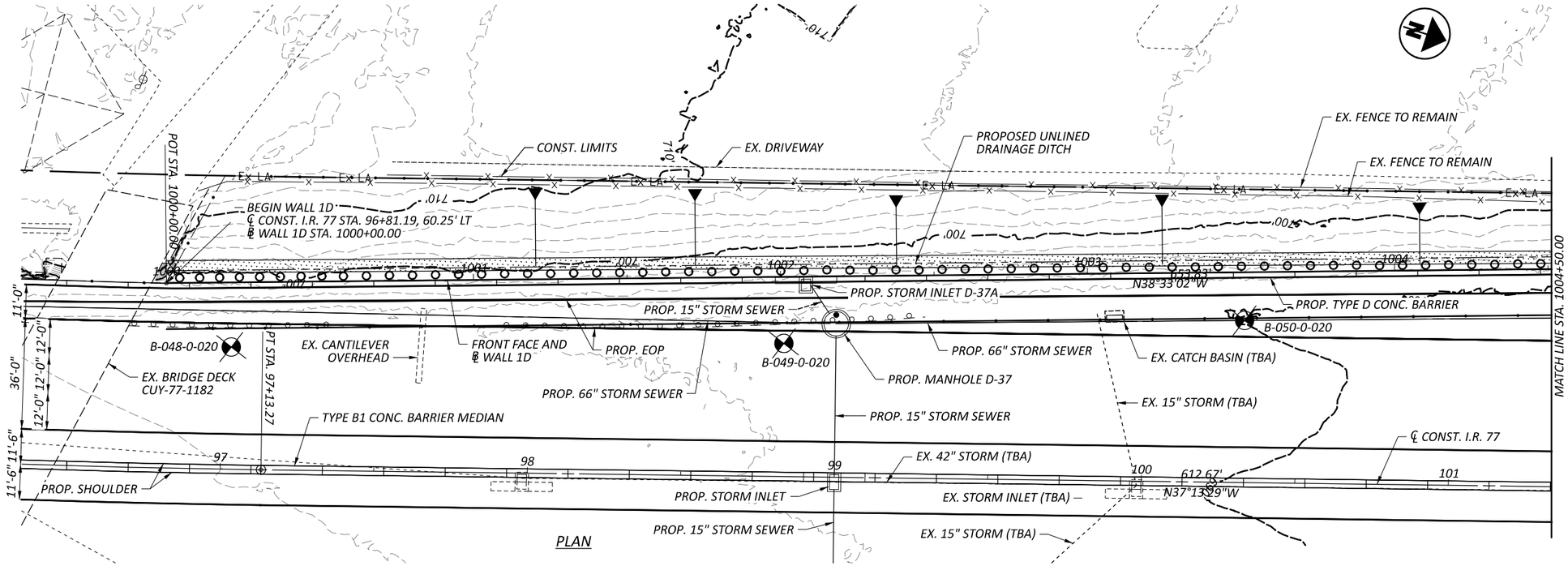


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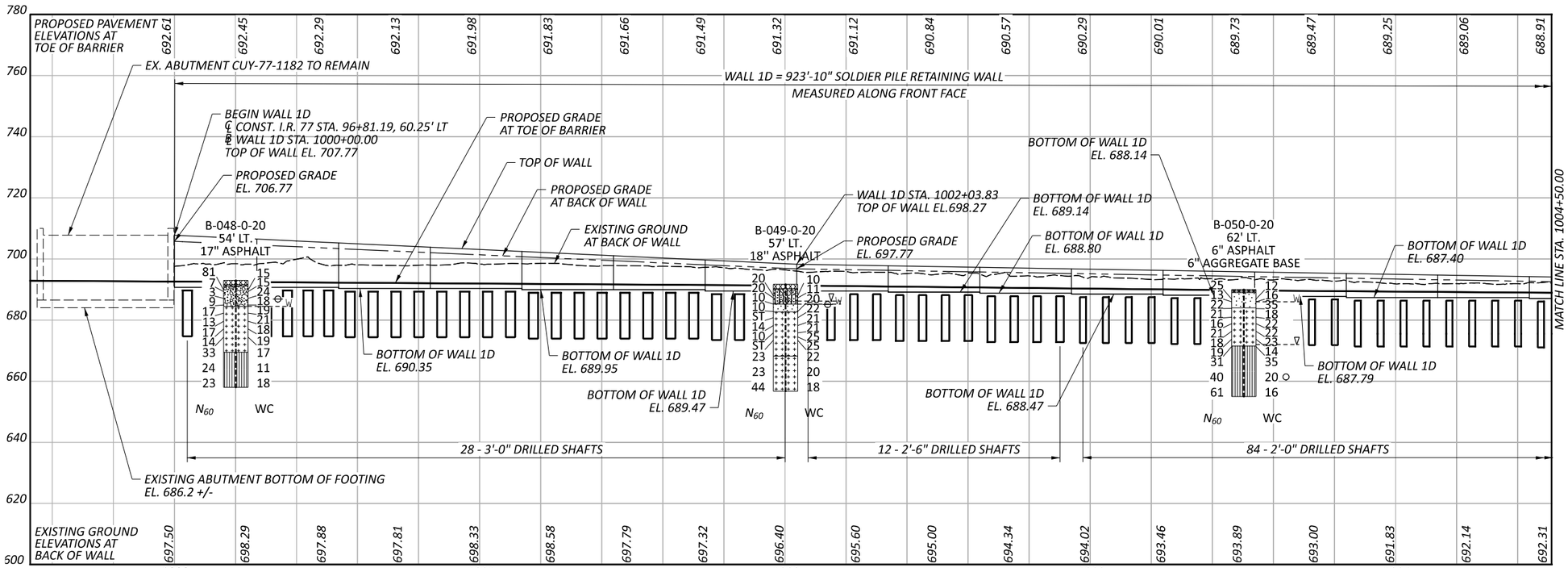


PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 1D

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 23 |
| TOTAL | 57 |
| SHEET | P.1101 |
| TOTAL | P.1135 |

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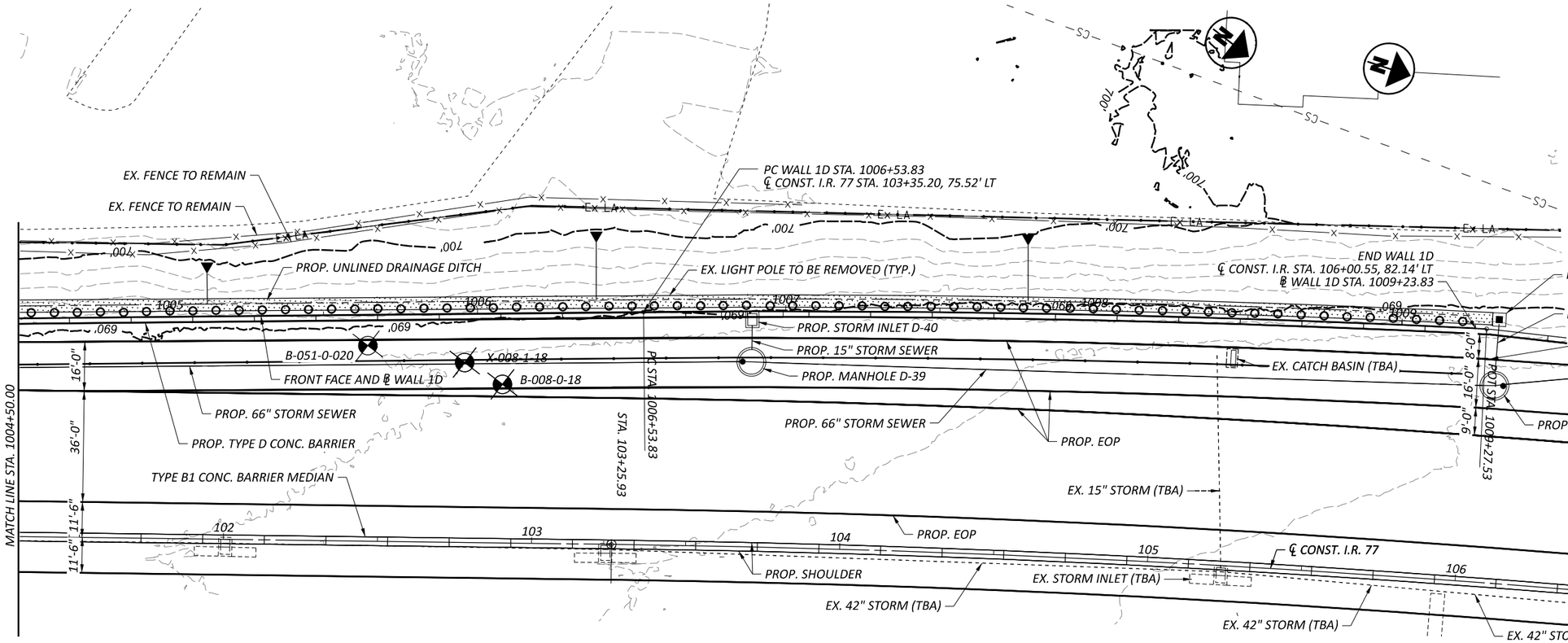
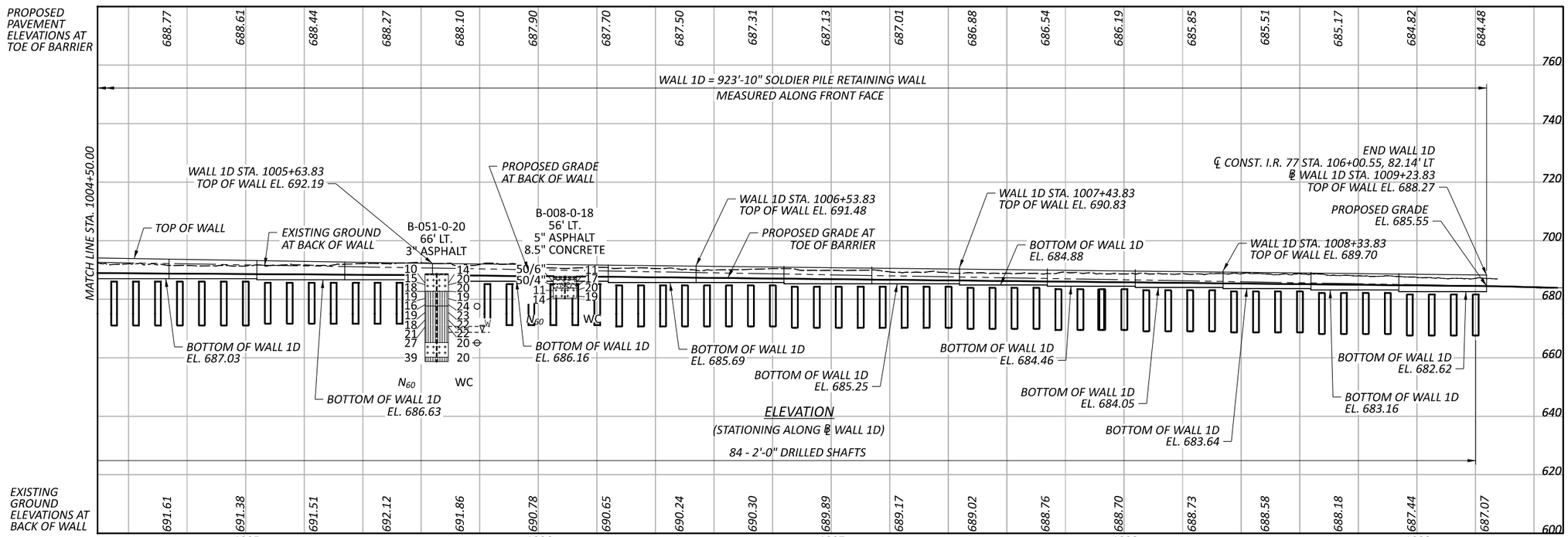
CUY-77-11.41 - PART 1



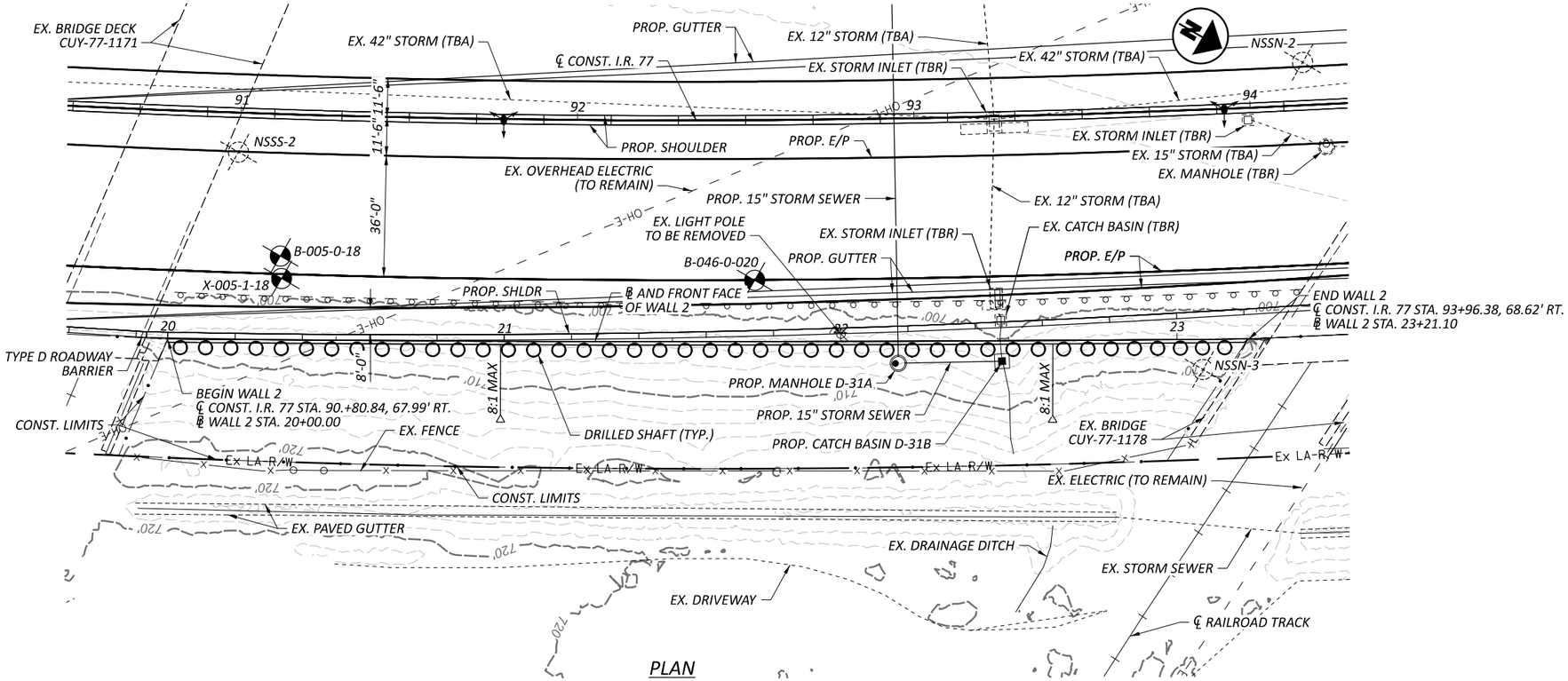




HORIZONTAL SCALE IN FEET
0 10 20 40

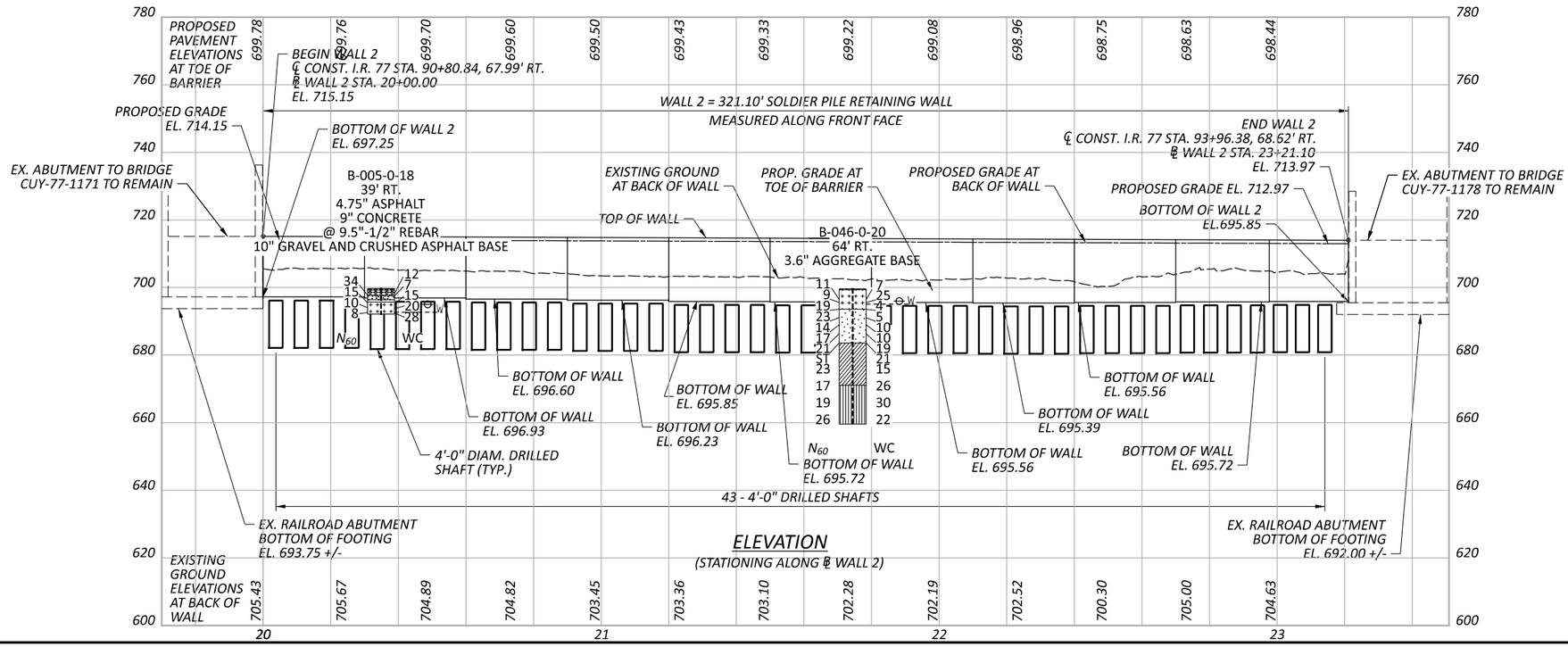
# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 1D

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 24 |
| TOTAL | 57 |
| SHEET | P.1102 |
| TOTAL | P.1135 |




PLAN




ELEVATION

(STATIONING ALONG ℄ WALL 2)

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
## RETAINING WALL 2

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 25 |
| TOTAL | 57 |
| SHEET | P.1103 |
| TOTAL | P.1135 |

CUY-77-11.41 - PART 1

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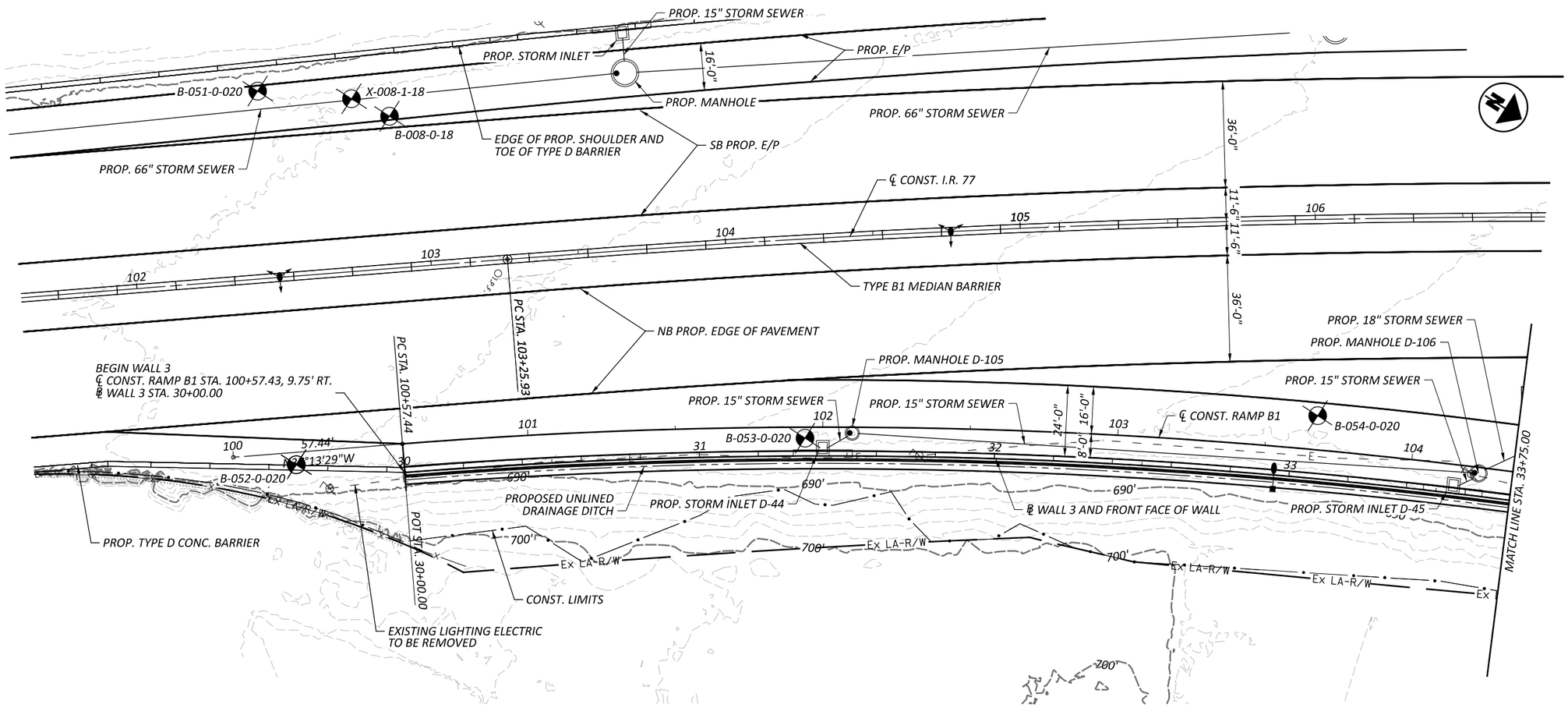
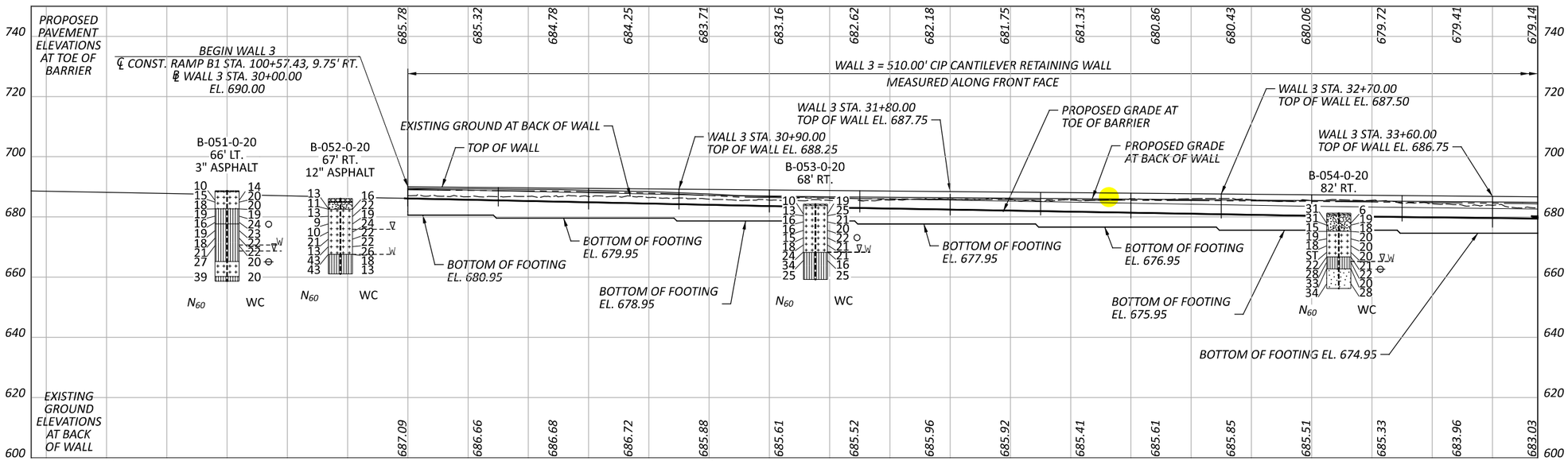



## PLAN

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CUY-77-11.41 - PART 1

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 3

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 26 / 57 |
| SHEET / TOTAL | P.1104 / P.1135 |

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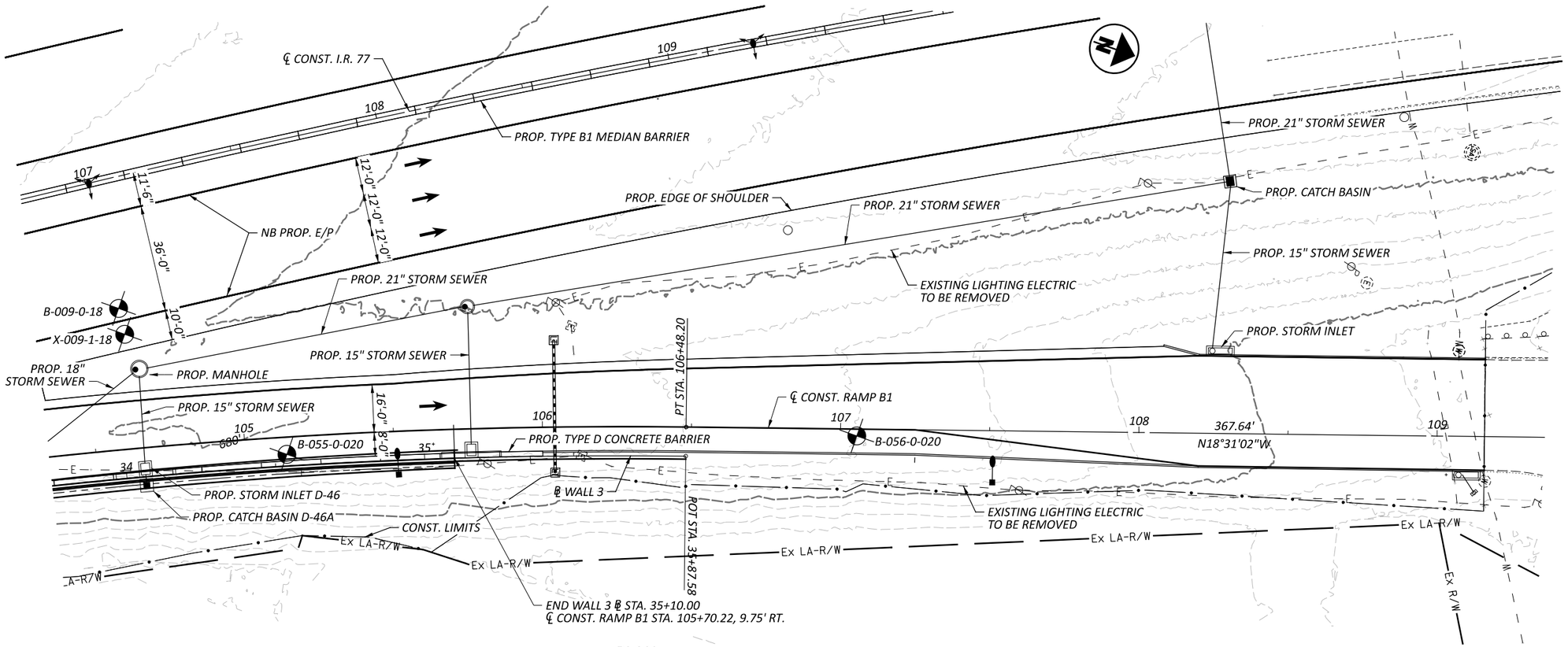
CUY-77-11.41 - PART 1

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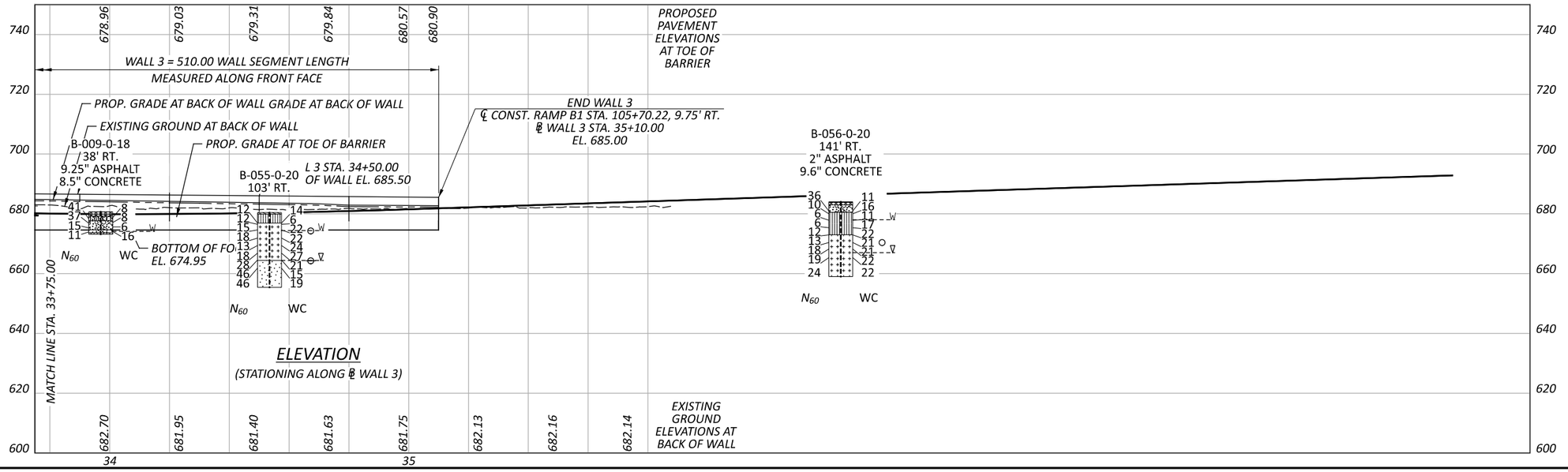


ELEVATION

(STATIONING ALONG ℄ WALL 3)

HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 11/18/25

PROJECT ID
105743

SUBSET 27 | TOTAL 57

SHEET P.1105 | TOTAL P.1135

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:49:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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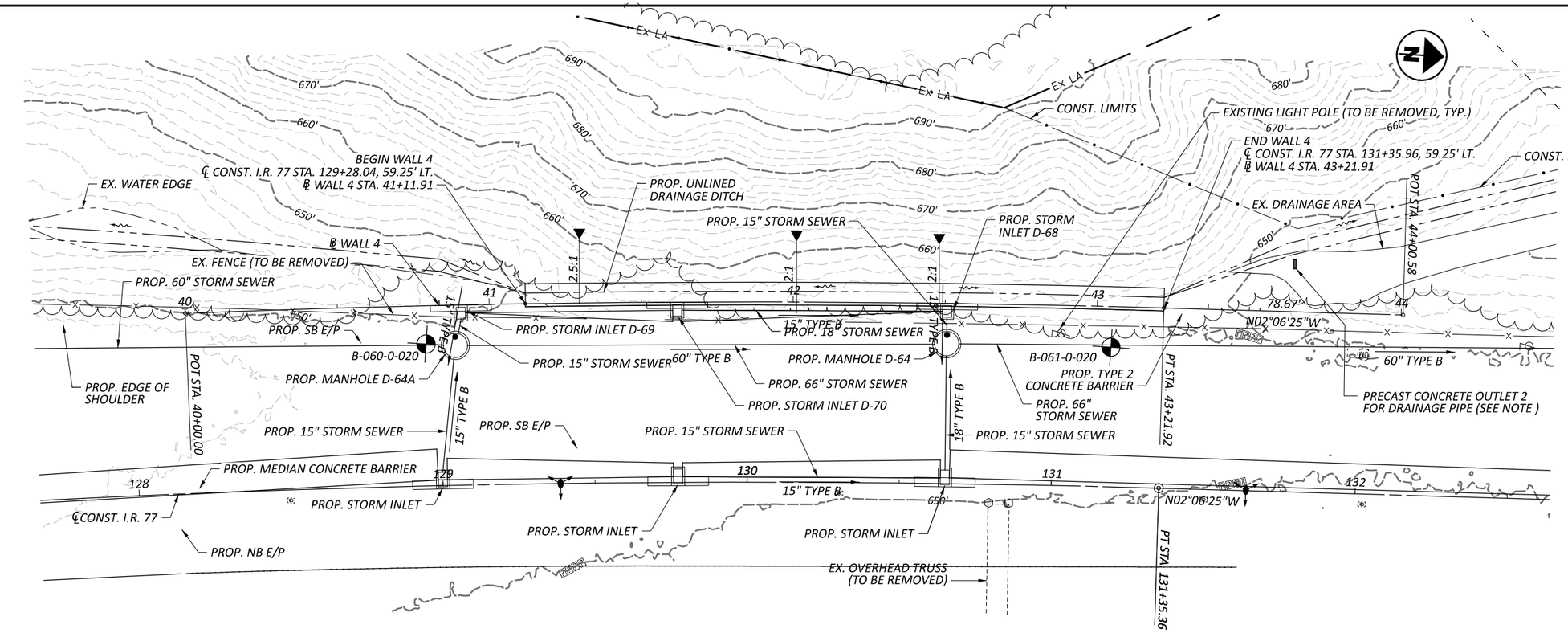
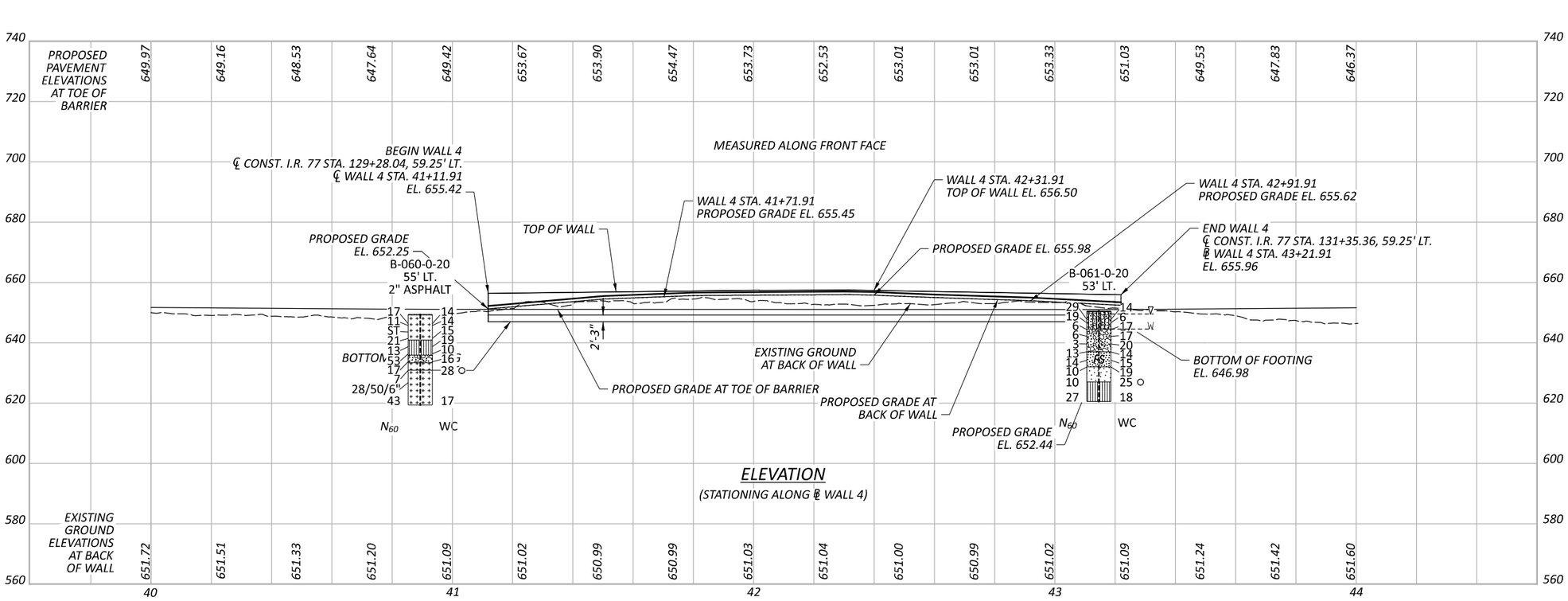


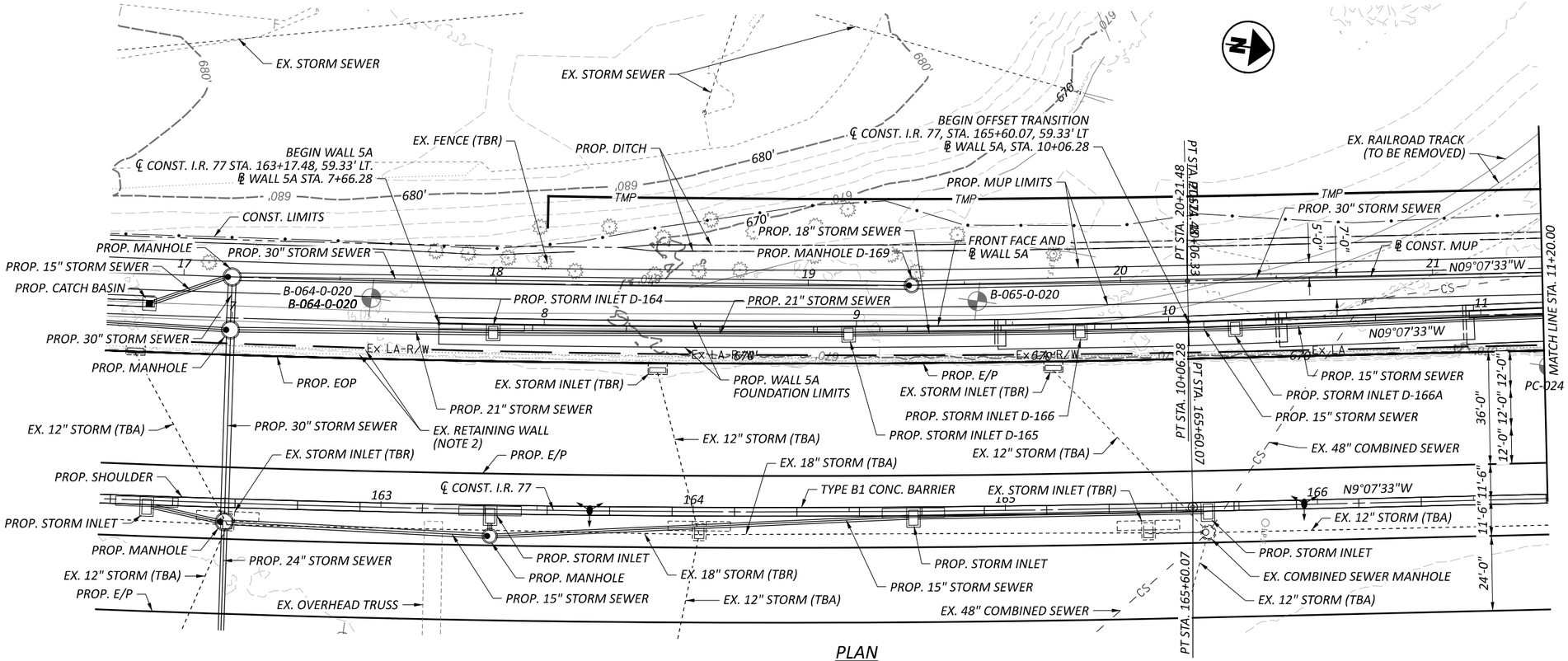




HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 4

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET | 28 |
| TOTAL | 57 |
| SHEET | P.1106 |
| TOTAL | P.1135 |

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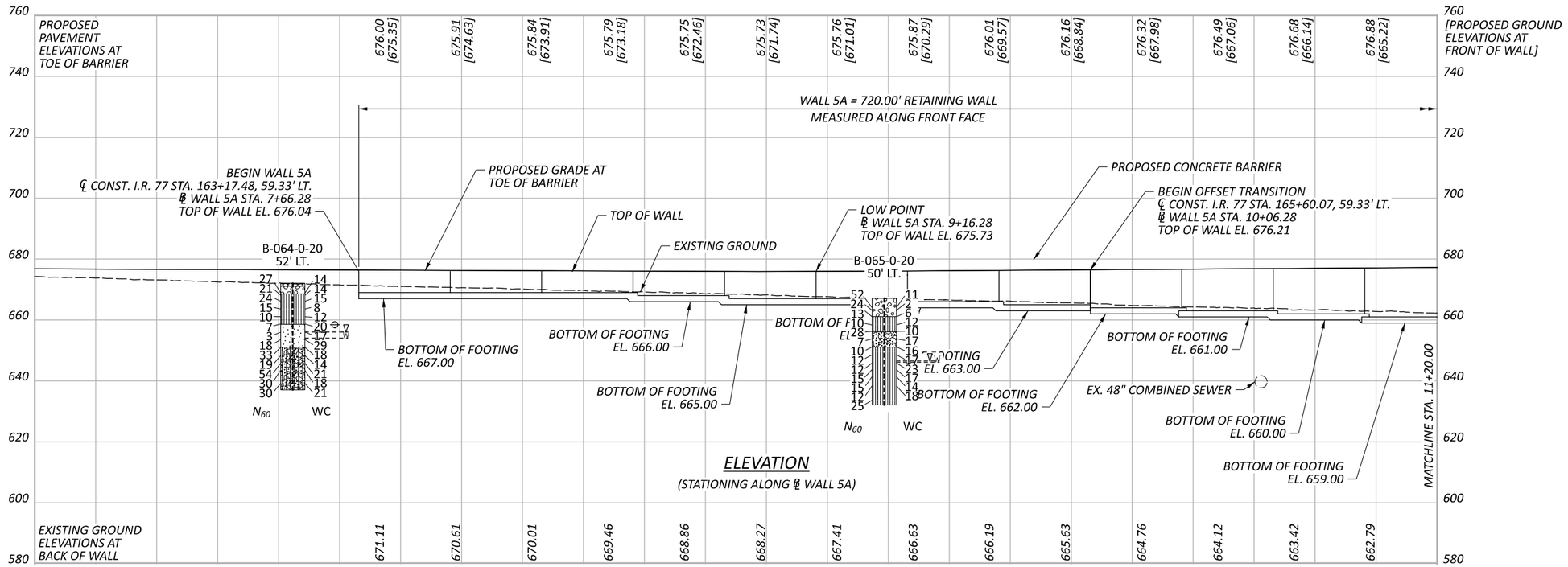


ELEVATION

(STATIONING ALONG ℄ WALL 5A)

HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER NMC
REVIEWER SDM 11/18/25
PROJECT ID 105743
SUBSET 29 | TOTAL 57
SHEET P.1107 | TOTAL P.1135

CUY-77-11.41 - PART 1

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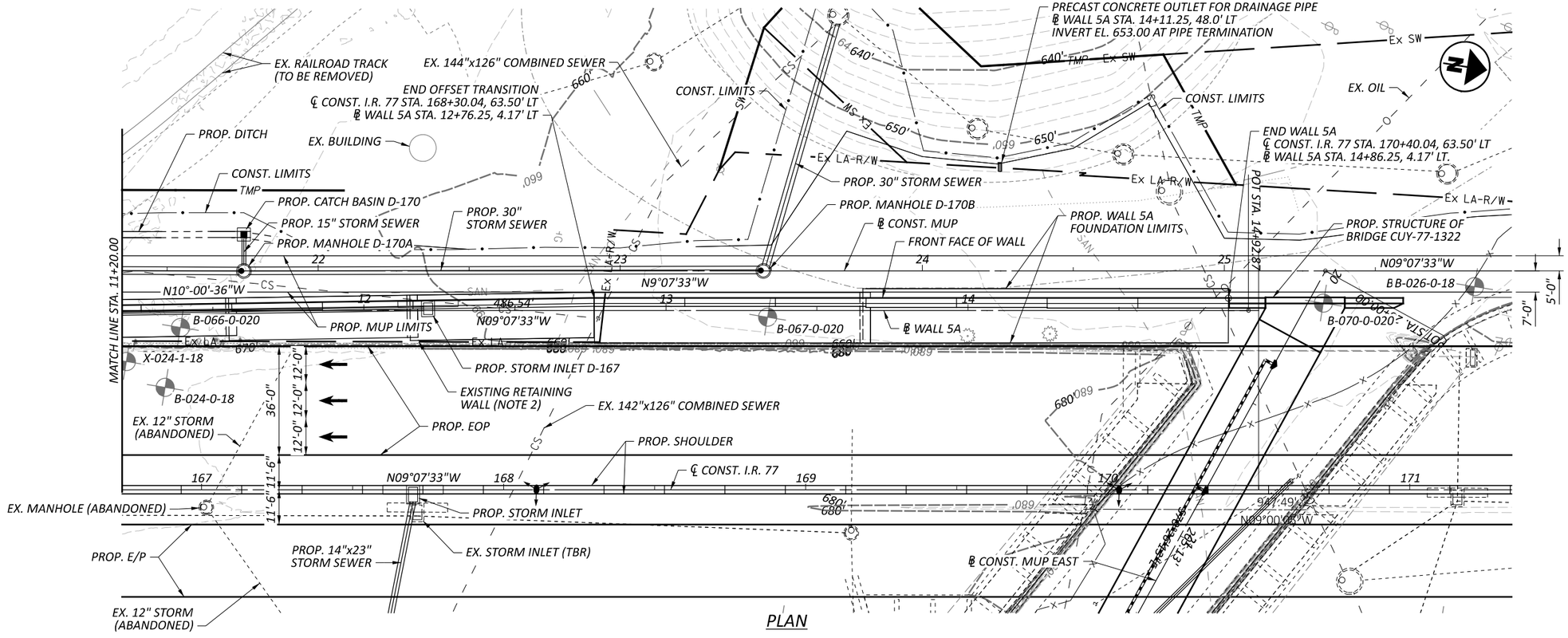
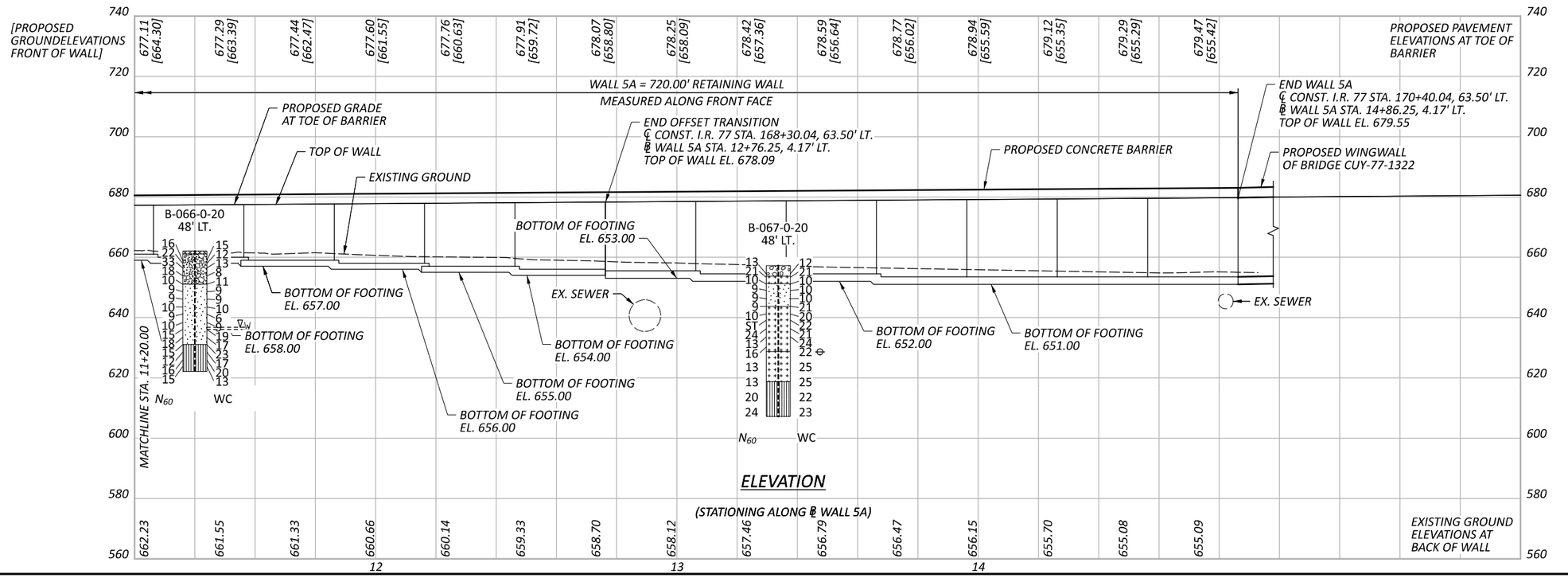
CUY-77-11.41 - PART 1



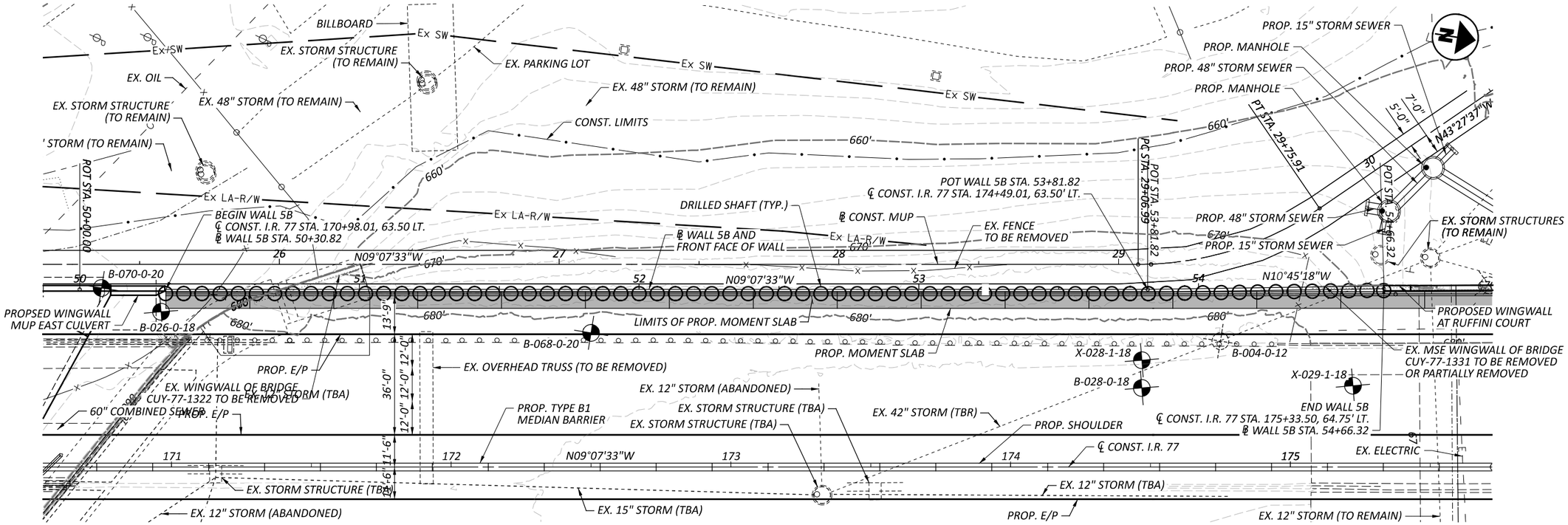




HORIZONTAL SCALE IN FEET
0 10 20 40

# GEOTECHNICAL PROFILE - RETAINING WALL
# RETAINING WALL 5A

DESIGN AGENCY
TRC

| | |
|---|---|
| DESIGNER | NMC |
| REVIEWER | SDM 11/18/25 |
| PROJECT ID | 105743 |
| SUBSET / TOTAL | 30 / 57 |
| SHEET / TOTAL | P.1108 / P.1135 |

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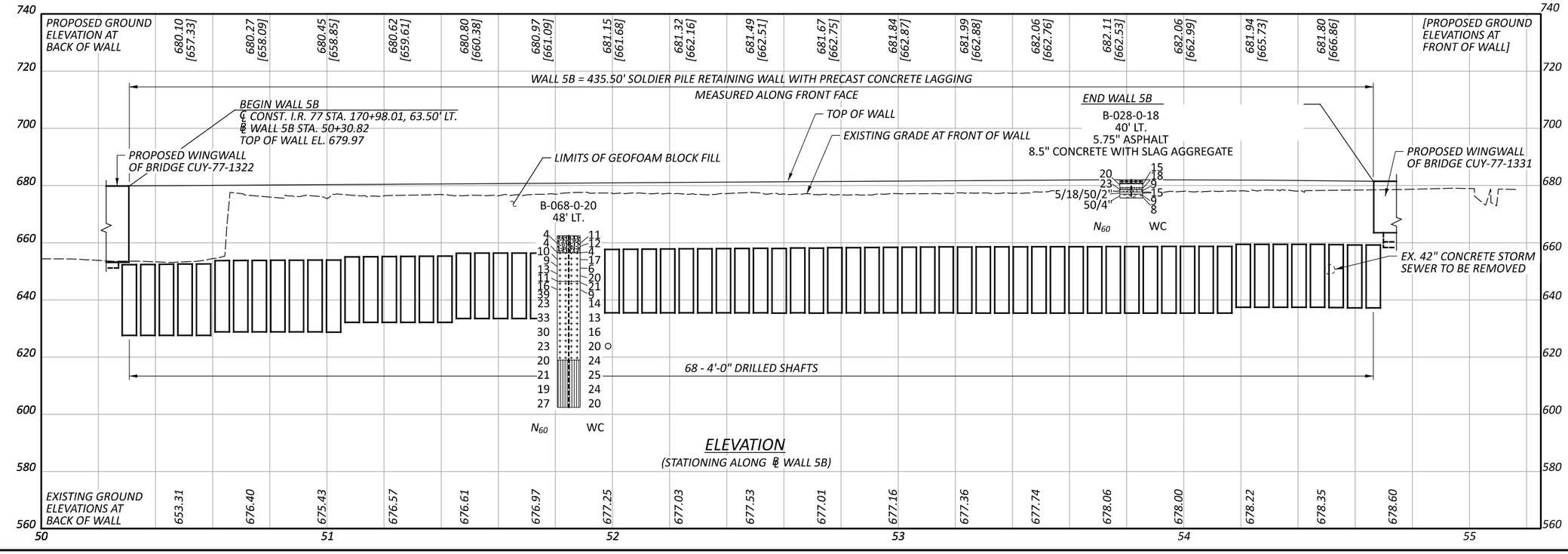


GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 5B

HORIZONTAL SCALE IN FEET
0 10 20 40

DESIGN AGENCY
TRC

DESIGNER NMC
REVIEWER SDM 11/18/25
PROJECT ID 105743
SUBSET 31 | TOTAL 57
SHEET P.1109 | TOTAL P.1135

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:02:05 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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PROJECT: CUY-77-11.21
TYPE: BRIDGE
PID: 105743 SFN:
START: 3/21/18 END: 3/21/18

DRILLING FIRM / OPERATOR: OHIO TESTBOR / CS
SAMPLING FIRM / LOGGER: AECOM / TG
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: SIMCO 2800 (062012)
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 11/13/18
ENERGY RATIO (%): 84.5

STATION / OFFSET: 169+65, 54' RT.
ALIGNMENT: I-77 EX CL
ELEVATION: 656.1 (MSL) EOB: 50.0 ft.
LAT / LONG: 41.463260, -81.657250

EXPLORATION ID B-025-0-18
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GR | CS | FS | SI | CL | LL | PL | PI | WC | ODOT CLASS (GI) | ABAN-DONED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VERY DENSE, GRAY AND BROWN, **GRAVEL**, SOME SAND, LITTLE SILT, FILL, MOIST | 656.1 | | 8 50/5" | - | 64 | SS-1 | - | 53 | 24 | 16 | 5 | 2 | NP | NP | NP | 14 | A-1-a (0) | |
| MEDIUM DENSE, BROWN AND BLACK, **GRAVEL**, AS MIXTURE OF COAL AND FOUNDARY SAND, FILL, MOIST | 653.6 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL WITH SAND**, TRACE SILT, OXIDIZED, MOIST | 652.6 | | 3 6 6 | 17 | 89 | SS-2 | - | 52 | 15 | 19 | 14 | | NP | NP | NP | 11 | A-1-b (0) | |
| MEDIUM DENSE, BROWN, **SANDY SILT**, MOIST | 650.6 | | | | | | | | | | | | | | | | | |
| MEDIUM STIFF, BROWN, **SILT**, HOIZONTALLY BEDDED, MOIST | 649.4 | | 2 4 4 | 11 | 89 | SS-3A<br>SS-3B<br>SS-3C | -<br>0.75<br>- | 0<br>-<br>- | 0<br>-<br>- | 49<br>-<br>- | 46<br>-<br>- | 5<br>-<br>- | NP<br>-<br>- | NP<br>-<br>- | NP<br>-<br>- | 22<br>-<br>- | A-4a (3)<br>A-4b (V)<br>A-4a (V) | |
| MEDIUM DENSE, BROWN, **SANDY SILT**, LITTLE SAND, MOIST<br>@ 8.5' - BECOMES WET<br>@ 9.2' - BECOMES GRAYISH BROWN | 649.3 | W 647.6 | 2 4 4 | 11 | 78 | SS-4 | - | 0 | 1 | 63 | 31 | 5 | NP | NP | NP | 27 | A-4a (0) | |
| @ 13.5' - BECOMES DENSE | | | 8 12 13 | 35 | 94 | SS-5 | - | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| HARD, BROWNISH GRAY, **SILT**, MOIST | 639.3 | | 3 5 7 | 17 | 83 | SS-6 | 4.08 | 2 | 0 | 1 | 73 | 24 | 25 | 19 | 6 | 19 | A-4b (8) | |
| SOFT TO MEDIUM STIFF, BROWNISH GRAY, **SILT**, DILATENT, WITH INTERBEDDED NON-COHESIVE SILT SEAMS UP TO 1.5" THICK, WET | 634.3 | | 2 3 3 | 8 | 89 | SS-7 | 0.50 | - | - | - | - | - | - | - | - | 27 | A-4b (V) | |
| | | | 2 3 5 | 11 | 100 | SS-8 | 0.67 | 0 | 0 | 0 | 65 | 35 | 26 | 19 | 7 | 32 | A-4b (8) | |
| LOOSE, BROWNISH GRAY, **SILT**, TRACE SAND, WET<br>@ 31.3'-31.9' - UCS = 2398 PSF | 625.6 | | | | 100 | ST-1 | - | 0 | 0 | 1 | 86 | 13 | NP | NP | NP | 28 | A-4b (8) | |
| @ 33' - BECOMES WITH INTERBEDDED SILT LAMINAE | | | 2 2 4 | 8 | 94 | SS-9 | - | - | - | - | - | - | - | - | - | 27 | A-4b (V) | |
| MEDIUM STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST | 619.6 | | | | | | | | | | | | | | | | | |
| @ 38.9' - 0.5" DARK GRAY ORGANIC STAINING | | | 3 4 5 | 13 | 94 | SS-10 | 0.75 | 1 | 0 | 1 | 45 | 53 | 33 | 19 | 14 | 26 | A-6a (10) | |
| @ 43.5' - BECOMES STIFF | | | 3 6 8 | 20 | 100 | SS-11 | 1.50 | - | - | - | - | - | - | - | - | 24 | A-6a (V) | |
| @ 48.5' - BECOMES STIFF TO VERY STIFF | 606.1 | EOB | 4 6 9 | 21 | 94 | SS-12 | 2.00 | - | - | - | - | - | - | - | - | - | A-6a (V) | |

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS; MIXED WITH BENTONITE POWDER; MIXED WITH CEMENT; BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 11/17/25 11:38 - C:\USERS\TGWILLIAMS\DESKTOP\CUY-77-11.21 BORING LOGS REV NOV 2025.GPJ

| SHEET | TOTAL | SUBSET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|---|---|
| P.1110 | P.1135 | 32 | 57 | 105743 | SDM 11/18/25 | EB | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-025-0-18

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:02:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID001.dgn

PROJECT: CUY-77-11.21
TYPE: BRIDGE
PID: 105743 SFN:
START: 3/15/19 END: 3/15/19

DRILLING FIRM / OPERATOR: OHIO TESTBOR / CS
SAMPLING FIRM / LOGGER: AECOM / TG
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: SIMCO 2800 (062012)
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 11/13/18
ENERGY RATIO (%): 84.5

STATION / OFFSET: 171+20, 74' LT.
ALIGNMENT: I-77 EX CL
ELEVATION: 653.6 (MSL) EOB: 50.0 ft.
LAT / LONG: 41.463700, -81.657880

EXPLORATION ID B-026-0-18
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GR | CS | FS | SI | CL | LL | PL | PI | WC | ODOT CLASS (GI) | ABAN-DONED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 653.6 | | | | | | | GRADATION (%) | | | | | ATTERBERG | | | | | |
| 1" TOPSOIL | 653.5 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN AND GRAY, **GRAVEL**, AND SAND, FILL, MOIST | 651.9 | | 6 13 5 | 25 | 78 | SS-1A | - | 23 | 39 | 22 | 12 | 4 | NP | NP | NP | 17 | A-1-b (0) | |
| VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, FILL, MOIST | 650.6 | | | | | SS-1B | 2.25 | 1 | 16 | 26 | 35 | 22 | 17 | 14 | 3 | 15 | A-4a (4) | |
| LOOSE, BROWN, **COARSE AND FINE SAND**, FILL, MOIST | 649.2 | | 3 3 4 | 10 | 78 | SS-2A | - | 3 | 43 | 31 | 14 | 9 | NP | NP | NP | 9 | A-3a (0) | |
| | | | | | | SS-2B | - | - | - | - | - | - | - | - | - | - | A-3a (V) | |
| STIFF, BROWN, **SILT**, LITTLE SAND, FILL, MOIST | 648.1 | | | | | SS-2C | - | 0 | 3 | 7 | 58 | 32 | 26 | 18 | 8 | 18 | A-4b (8) | |
| LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE TO SOME SILT, FILL, MOIST | 647.0 | | 2 2 2 | 6 | 67 | SS-3A | - | 3 | 24 | 52 | 11 | 10 | NP | NP | NP | 13 | A-3a (0) | |
| STIFF TO HARD, BROWN, **SANDY SILT**, FILL, MOIST | 644.1 | | | | | SS-3B | 4.5+ | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| | | | 1 2 2 | 6 | 78 | SS-4A | 1.00 | 5 | 10 | 17 | 37 | 31 | 27 | 17 | 10 | 21 | A-4a (7) | |
| LOOSE, BROWN, **SANDY SILT**, FILL, MOIST | 641.8 | | | | | SS-4B | - | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| MEDIUM STIFF, GRAY WITH BLACK MOTTLING, **SANDY SILT**, TRACE ORGANICS, POSSIBLE FILL, MOIST | 638.1 | | 1 4 3 | 10 | 78 | SS-5 | 0.70 | 0 | 5 | 34 | 31 | 30 | 25 | 15 | 10 | 22 | A-4a (5) | |
| POSSIBLE COBBLEY ZONE | 636.8 | | 3 4 5 | 13 | 83 | SS-6 | 2.67 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| VERY STIFF, BROWNISH GRAY, **SILT**, MOIST | | | 2 3 5 | 11 | 100 | SS-7 | 0.60 | 0 | 0 | 1 | 68 | 31 | 27 | 21 | 6 | 25 | A-4b (8) | |
| @ 28.5' - WITH INTERBEDDED NON-COHESIVE SILT LAYERS, 1/16" TO 2" THICK | | | 2 4 4 | 11 | 94 | SS-8 | 0.65 | - | - | - | - | - | - | - | - | 26 | A-4b (V) | |
| | | | | | 0 | ST-1 | - | - | - | - | - | - | - | - | - | - | | |
| @ 33.5' - BECOMES WET, DILATANT | | W 620.1 | 2 2 4 | 8 | 100 | SS-9 | 0.83 | 0 | 0 | 0 | 67 | 33 | 28 | 20 | 8 | 26 | A-4b (8) | |
| STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST | 618.1 | | | | 100 | ST-2 | 2.13 | - | - | - | - | - | - | - | - | - | A-6a (V) | |
| | | | 2 4 5 | 13 | 100 | SS-10 | 1.75 | 1 | 0 | 0 | 53 | 46 | 31 | 20 | 11 | 24 | A-6a (8) | |
| MEDIUM DENSE, BROWNISH GRAY, **SILT**, MOIST | 606.8 | | 2 5 7 | 17 | 100 | SS-11 | 1.92 | - | - | - | - | - | - | - | - | 23 | A-6a (V) | |
| | 604.3 | | 7 8 8 | 23 | 100 | SS-12A | - | 0 | 0 | 0 | 90 | 10 | NP | NP | NP | 19 | A-4b (8) | |
| VERY STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST | 603.6 | EOB | | | | SS-12B | 2.13 | - | - | - | - | - | - | - | - | 23 | A-6a (V) | |

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH CEMENT; BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 11/17/25 11:38 - C:\USERS\TGWILLIAMS\DESKTOP\CUY-77-11.21 BORING LOGS REV NOV 2025.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1111 TOTAL P.1135 | 33 TOTAL 57 | 105743 | SDM 11/20/25 | EB | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-026-0-18

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:02:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL001.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/7/21 END: 12/7/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 79+50, 78' LT.
ALIGNMENT: CL IR 77
ELEVATION: 694.7 (ft) EOB: 25.0 ft.
LAT / LONG: 41.439859, -81.650141

EXPLORATION ID B-040-0-20
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (7") | 694.1 | | | | | | | | | | | | | | | | | |
| **AGGREGATE BASE**, DRY | 693.7 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT, DAMP | | | 8 3 5 | 12 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 9 | A-1-b (V) | |
| | | | 4 3 5 | 12 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 9 | A-1-b (V) | |
| | | W 688.7 | | | | | | | | | | | | | | | | |
| | | | 4 4 5 | 13 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 13 | A-1-b (V) | |
| | | ▽ 686.7 | | | | | | | | | | | | | | | | |
| | | | 4 6 5 | 16 | 100 | SS-4 | - | 41 | 38 | 17 | - 4 - | | NP | NP | NP | 14 | A-1-b (0) | |
| | 683.7 | | | | | | | | | | | | | | | | | |
| HARD, GRAY, **SANDY SILT**, AND CLAY,TRACE SAND,TRACE GRAVEL, WET | | | 3 4 5 | 13 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 28 | A-4a (V) | |
| | | | 5 6 8 | 21 | 100 | SS-6 | >4.5 | 0 | 0 | 0 | 46 | 54 | 29 | 20 | 9 | 24 | A-4a (8) | |
| | | | 5 7 8 | 22 | 100 | SS-7 | >4.5 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | | 6 10 11 | 31 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| @21' VERY STIFF | | | 4 7 12 | 28 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | 671.2 | | | | | | | | | | | | | | | | | |
| DENSE, GRAY, **FINE SAND**, WET | 669.7 | EOB | 7 12 14 | 39 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 25 | A-3 (V) | |

NOTES: DUE TO GRANULAR NATURE OF SOILS, UNABLE TO RETRIEVE A SHELBY TUBES. FINE CONTENT REPORTED AS SILT IN SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/7/21 END: 12/7/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 85+65, 67' LT.
ALIGNMENT: CL IR 77
ELEVATION: 694.3 (ft) EOB: 30.0 ft.
LAT / LONG: 41.441468, -81.650749

EXPLORATION ID B-041-0-20
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (7") | 693.7 | | | | | | | | | | | | | | | | | |
| **AGGREGATE BASE**, DRY | 693.3 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY AND BROWN, **FINE SAND**, SOME SILT, TRACE FINE GRAVEL, DAMP | 690.8 | | 3 4 6 | 15 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 9 | A-3 (V) | |
| MEDIUM DENSE TO DENSE, BROWN AND GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, MOIST | | | 7 10 11 | 31 | 78 | SS-2 | - | 31 | 45 | 17 | - 7 - | | NP | NP | NP | 5 | A-1-b (0) | |
| | | | 3 3 6 | 13 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (V) | |
| | | W 686.3 | | | | | | | | | | | | | | | | |
| | | | 4 7 7 | 21 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (V) | |
| | 683.3 | | | | | | | | | | | | | | | | | |
| VERY STIFF, GRAY, **SILT**, AND CLAY, MOIST | | | 3 4 4 | 12 | 100 | SS-5 | 2.25 | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | | | | 100 | ST-6 | - | 0 | 0 | 0 | 60 | 40 | 29 | 21 | 8 | 26 | A-4b (8) | |
| | | | 3 4 5 | 13 | 100 | SS-7 | 2.50 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | 678.3 | | | | | | | | | | | | | | | | | |
| HARD, GRAY, **SANDY SILT**, MOIST | | ▽ 677.3 | 7 10 14 | 36 | 100 | SS-8 | >4.5 | - | - | - | - | - | - | - | - | 15 | A-4a (V) | |
| | 675.8 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE TO DENSE, GRAY, **SILT**, LITTLE FINE SAND, TRACE COARSE SAND, MOIST | | | 7 10 13 | 34 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | | | 5 6 8 | 21 | 100 | SS-10 | - | 0 | 1 | 13 | - 86 - | | NP | NP | NP | 23 | A-4b (8) | |
| | | | 4 7 10 | 25 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | 664.3 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 14.4 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2, SS-9

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | TOTAL | SUBSET | TOTAL | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|---|---|
| P.1112 | P.1135 | 34 | 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-040-0-20, B-041-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:03:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL002.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 88+24, 63' LT. | EXPLORATION ID B-042-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 696.6 (ft) EOB: 35.0 ft. | PAGE 1 OF 1 |
| START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.442102, -81.651046 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (9") | 696.6 / 695.8 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, DAMP | | | 12 11 7 | 27 | 72 | SS-1 | - | - | - | - | - | - | - | - | - | 13 | A-1-b (V) | |
| | | | 3 5 4 | 13 | 78 | SS-2 | - | 48 | 30 | 15 | - | 7 - | NP | NP | NP | 5 | A-1-b (0) | |
| | 690.6 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **COARSE AND FINE SAND**, TRACE FINE GRAVEL, TRACE SILT, DAMP | | | 3 4 6 | 15 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 8 | A-3a (V) | |
| | 688.1 | W 688.6 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, MOIST | | | 3 4 5 | 13 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 13 | A-1-b (V) | |
| | 685.6 | | | | | | | | | | | | | | | | | |
| VERY STIFF, GRAY, **SANDY SILT**, TRACE GRAVEL, AND CLAY, MOIST TO WET | | ▽ 684.6 | 5 8 8 | 24 | 100 | SS-5 | 3.50 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | | 4 6 7 | 19 | 100 | SS-6 | 4.00 | 0 | 0 | 1 | 42 | 57 | 26 | 21 | 5 | 21 | A-4a (8) | |
| @16' HARD | | | 5 8 10 | 27 | 100 | SS-7 | >4.5 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | | 9 12 14 | 39 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 10 | A-4a (V) | |
| | | | 6 12 15 | 40 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| | | | 9 12 16 | 42 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |
| | 661.6 | EOB | 12 20 22 | 63 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 19.6 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 13:38 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1113 TOTAL P.1135 | 35 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-042-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:03:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL003.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 90+25, 53' LT. | EXPLORATION ID B-043-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 697.8 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.442584, -81.651305

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (18") | 697.8 | | | | | | | | | | | | | | | | | |
| | 696.3 | 1 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, DRY | | 2 | 6 4 4 | 11 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 19 | A-1-b (V) | |
| | 694.3 | 3 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL,LITTLE COARSE TO FINE SAND, TRACE CLAY, MOIST | | 4 | 2 3 5 | 11 | 100 | SS-2 | - | 1 | 1 | 18 | 76 | 4 | 20 | 22 | NP | 27 | A-4b (8) | |
| | 691.8 | 5 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT,TRACE CLAY, DAMP | | 6 | 9 8 6 | 20 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 2 | A-1-b (V) | |
| | | 7 | | | | | | | | | | | | | | | | |
| | | 8 | 8 9 7 | 23 | 100 | SS-4 | - | 29 | 34 | 30 | - | 7 - | NP | NP | NP | 5 | A-1-b (0) | |
| | W 686.5 | 9 | | | | | | | | | | | | | | | | |
| | | 10 | | | | | | | | | | | | | | | | |
| | | 11 | 4 4 4 | 11 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 13 | A-1-b (V) | |
| | | 12 | | | | | | | | | | | | | | | | |
| | | 13 | | | | | | | | | | | | | | | | |
| | | 14 | 4 7 7 | 20 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 21 | A-1-b (V) | |
| | 681.8 | 15 | | | | | | | | | | | | | | | | |
| HARD, GRAY, **SILT**, AND CLAY,TRACE GRAVEL,TRACE SAND, DAMP | | 16 | | | 100 | ST-7 | >4.5 | 1 | 1 | 1 | 61 | 36 | 29 | 20 | 9 | 21 | A-4b (8) | |
| | | 17 | | | | | | | | | | | | | | | | |
| @18.5' VERY STIFF | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | 4 5 6 | 16 | 100 | SS-8 | 4.00 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | 20 | | | | | | | | | | | | | | | | |
| | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | | | | | | | | | | | | | | | | |
| | | 23 | | | | | | | | | | | | | | | | |
| | | 24 | 4 5 6 | 16 | 89 | SS-9 | - | - | - | - | - | - | - | - | - | 16 | A-4b (V) | |
| | | 25 | | | | | | | | | | | | | | | | |
| | | 26 | | | | | | | | | | | | | | | | |
| | | 27 | | | | | | | | | | | | | | | | |
| | | 28 | | | | | | | | | | | | | | | | |
| @28.5' HARD | | 29 | 11 14 17 | 44 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | 667.8 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 9.9 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 93+00, 50' LT. | EXPLORATION ID B-044-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 697.5 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.443278, -81.651798

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (18") | 697.5 | | | | | | | | | | | | | | | | | |
| | 696.0 | 1 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, DAMP | | 2 | 8 5 6 | 16 | 33 | SS-1 | - | - | - | - | - | - | - | - | - | 5 | A-1-b (V) | |
| | | 3 | | | | | | | | | | | | | | | | |
| | 693.0 | 4 | 3 4 9 | 19 | 89 | SS-2A | - | - | - | - | - | - | - | - | - | 6 | A-1-b (V) | |
| | | | | | | SS-2B | - | - | - | - | - | - | - | - | - | - | A-3 (0) | |
| MEDIUM DENSE, BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, DAMP | | 5 | | | | | | | | | | | | | | | | |
| | | 6 | | | | | | | | | | | | | | | | |
| | | 7 | 7 7 7 | 20 | 100 | SS-3 | - | 4 | 36 | 51 | - | 9 - | NP | NP | NP | 3 | A-3 (0) | |
| | | 8 | | | | | | | | | | | | | | | | |
| | | 9 | 3 4 5 | 13 | 100 | SS-4 | - | 8 | 13 | 71 | - | 8 - | NP | NP | NP | 5 | A-3 (0) | |
| | | 10 | | | | | | | | | | | | | | | | |
| | 685.5 | W 685.5 | | | | | | | | | | | | | | | | |
| | | 11 | 4 6 6 | 17 | 89 | SS-5A | - | - | - | - | - | - | - | - | - | 12 | A-3 (V) | |
| | | | | | | SS-5B | - | - | - | - | - | - | - | - | - | - | A-1-b (V) | |
| MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, WET | | 12 | | | | | | | | | | | | | | | | |
| | | 13 | | | | | | | | | | | | | | | | |
| | | 14 | 3 5 4 | 13 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 10 | A-1-b (V) | |
| | | 15 | | | | | | | | | | | | | | | | |
| | 680.5 | 16 | 6 4 6 | 14 | 100 | SS-7A | - | - | - | - | - | - | - | - | - | 19 | A-1-b (V) | |
| | | | | | | SS-7B | >4.5 | - | - | - | - | - | - | - | - | - | A-4b (V) | |
| VERY STIFF TO HARD, GRAY, **SILT**, SOME CLAY, MOIST | | 17 | | | | | | | | | | | | | | | | |
| | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | | | 100 | ST-8 | - | 0 | 0 | 0 | 63 | 37 | 27 | 21 | 6 | 24 | A-4b (8) | |
| | | 20 | | | | | | | | | | | | | | | | |
| | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | | | | | | | | | | | | | | | | |
| | | 23 | | | | | | | | | | | | | | | | |
| | | 24 | 4 6 7 | 19 | 78 | SS-9 | 2.00 | - | - | - | - | - | - | - | - | 28 | A-4b (V) | |
| | | 25 | | | | | | | | | | | | | | | | |
| | | 26 | | | | | | | | | | | | | | | | |
| | | 27 | | | | | | | | | | | | | | | | |
| | | 28 | | | | | | | | | | | | | | | | |
| | 668.5 | 29 | | | | SS-10A | - | - | - | - | - | - | - | - | - | - | A-4b (V) | |
| DENSE, GRAY, **FINE SAND**, LITTLE SILT, DAMP | | | 7 10 15 | 36 | 100 | SS-10B | - | - | - | - | - | - | - | - | - | 20 | A-3 (V) | |
| | 667.5 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 10.3 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3, SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1114 / P.1135 TOTAL | 36 / 57 TOTAL | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-043-0-20 & B-044-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:03:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL004.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 92+50, 64' RT. | EXPLORATION ID B-046-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 699.6 (ft) EOB: 40.0 ft. | PAGE 1 OF 1 |
| START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.443288, -81.651430 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AGGREGATE BASE**, DRY | 699.6 / 699.3 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN AND GRAY, **SILT**, SOME CLAY,TRACE FINE SAND, DAMP | | | 3 4 4 | 11 | 67 | SS-1 | - | - | - | - | - | - | - | - | - | 7 | A-4b (V) | |
| @3.5' LOOSE | | W 695.1 | 3 2 4 | 9 | 72 | SS-2 | - | 0 | 0 | 1 | 73 | 26 | NP | NP | NP | 25 | A-4b (8) | |
| | 693.6 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN AND GRAY, **COARSE AND FINE SAND**, LITTLE GRAVEL, LITTLE SILT, DAMP | | | 4 6 7 | 19 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 4 | A-3a (V) | |
| | | | 8 9 7 | 23 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 5 | A-3a (V) | |
| | | | 6 6 4 | 14 | 78 | SS-5 | - | 12 | 28 | 49 | - 11 - | | NP | NP | NP | 10 | A-3a (0) | |
| | | | 4 5 7 | 17 | 78 | SS-6 | - | - | - | - | - | - | - | - | - | 10 | A-3a (V) | |
| | 683.6 | | | | | | | | | | | | | | | | | |
| HARD, BROWN AND GRAY, **SILT AND CLAY**, TRACE SAND, DAMP | | | 4 5 10 | 21 | 100 | SS-7 | >4.5 | - | - | - | - | - | - | - | - | 19 | A-6a (V) | |
| | | | | | 100 | ST-8 | - | 0 | 0 | 0 | 60 | 40 | 33 | 21 | 12 | 21 | A-6a (9) | |
| @23.5' VERY STIFF | | | 3 7 9 | 23 | 89 | SS-9 | - | - | - | - | - | - | - | - | - | 15 | A-6a (V) | |
| | 671.1 | | | | | | | | | | | | | | | | | |
| VERY STIFF, BROWN AND GRAY, **SANDY SILT**, MOIST | | | 6 6 6 | 17 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 26 | A-4a (V) | |
| | | | 7 6 7 | 19 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 30 | A-4a (V) | |
| @38.5 HARD | | | 6 8 10 | 26 | 100 | SS-12 | >4.5 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | 659.6 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 13.4 FT BGS FINE CONTENT REPORTED AS SILT IN SS-5

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 13:52 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1115 TOTAL P.1135 | 37 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-046-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:03:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL005.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/6/21 END: 12/6/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / JASON
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 97+20, 54' LT.
ALIGNMENT: CL IR 77
ELEVATION: 693.0 (ft) EOB: 35.0 ft.
LAT / LONG: 41.444193, -81.652595

EXPLORATION ID B-048-0-20



| MATERIAL DESCRIPTION AND NOTES | ELEV. 693.0 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (17") | 691.6 | | | | | | | | | | | | | | | | | |
| **AGGREGATE BASE**, DRY | 691.1 | | 4 7 50 | 81 | 39 | SS-1A | - | - | - | - | - | - | - | - | - | - | | |
| VERY LOOSE TO LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, FILL, DRY FILL | | | | | | SS-1B | - | - | - | - | - | - | - | - | - | 15 | A-1-b (V) | |
| | | | 4 2 3 | 7 | 72 | SS-2 | - | - | - | - | - | - | - | - | - | 15 | A-1-b (V) | |
| @6' VERY LOOSE | | | 1 1 1 | 3 | 67 | SS-3 | - | 19 | 43 | 28 | - | 10 - | NP | NP | NP | 24 | A-1-b (0) | |
| | 684.5 | W 684.5 | | | | | | | | | | | | | | | | |
| MEDIUM STIFF TO STIFF, BROWN TO GRAY, **SILT**, AND CLAY, TRACE SAND, DRY | | | 3 2 4 | 9 | 72 | SS-4 | 2.50 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | | 4 5 7 | 17 | 100 | SS-5 | 3.50 | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | | | 4 4 5 | 13 | 100 | SS-6 | 3.00 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| @16' HARD,DAMP TO MOIST | | | 4 5 7 | 17 | 100 | SS-7 | >4.5 | 0 | 0 | 3 | 58 | 39 | 25 | 19 | 6 | 18 | A-4b (8) | |
| | | | 3 4 6 | 14 | 100 | SS-8 | >4.5 | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | 669.5 | | | | | | | | | | | | | | | | | |
| HARD, BROWN TO GRAY, **SANDY SILT**, AND CLAY, TRACE SAND, DAMP TO MOIST | | | 5 9 14 | 33 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| @28.5' VERY STIFF | | | 6 7 10 | 24 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 11 | A-4a (V) | |
| | 658.0 | EOB | 7 7 9 | 23 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 2.6 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 13:54 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1116 TOTAL P.1135 | 38 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-048-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:04:12 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL006.dgn

| | | | |
|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 98+75, 57' LT. |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 691.7 (ft) EOB: 35.0 ft. |
| START: 12/6/21 END: 12/6/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.444583, -81.652998 |

EXPLORATION ID: B-049-0-20

PAGE: 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. 691.7 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (18") | 690.2 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, DAMP | | | 4 6 8 | 20 | 67 | SS-1 | - | - | - | - | - | - | - | - | - | 10 | A-2-4 (V) | |
| | | | 6 7 7 | 20 | 83 | SS-2 | - | - | - | - | - | - | - | - | - | 11 | A-2-4 (V) | |
| | 685.2 | ▽ 686.2 W 685.2 | | | | | | | | | | | | | | | | |
| LOOSE, GRAY, **COARSE AND FINE SAND**, TRACE GRAVEL,LITTLE SILT,TRACE CLAY, DAMP | 682.7 | | 4 4 3 | 10 | 89 | SS-3 | - | 8 | 23 | 59 | - 10 - | | NP | NP | NP | 20 | A-3 (0) | |
| VERY STIFF, GRAY, **SILT**, AND CLAY, TRACE SAND,TRACE GRAVEL, MOIST | | | 4 3 4 | 10 | 78 | SS-4 | 2.75 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | | | 100 | ST-5 | 2.25 | 1 | 2 | 1 | 55 | 41 | 30 | 20 | 10 | 21 | A-4b (8) | |
| @13.5' STIFF | | | 4 4 6 | 14 | 100 | SS-6 | 2.00 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | | 4 4 3 | 10 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | | | | 100 | ST-8 | - | 1 | 0 | 0 | 66 | 33 | 31 | 21 | 10 | 25 | A-4b (8) | |
| | 668.2 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **SILT**, TRACE FINE SAND, MOIST | | | 6 7 9 | 23 | 83 | SS-9 | - | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | 8 9 7 | 23 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| @33.5' DENSE | | | 9 14 17 | 44 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | 656.7 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 6.1 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH- DOT.GDT - 10/30/25 14:02 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1117 / P.1135 TOTAL | 39 / 57 TOTAL | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-049-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:04:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL007.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/6/21 END: 12/6/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 100+25, 62' LT.
ALIGNMENT: CL IR 77
ELEVATION: 690.0 (ft) EOB: 35.0 ft.
LAT / LONG: 41.444898, -81.653352

EXPLORATION ID B-050-0-20
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (6") | 690.0<br>689.5 | | | | | | | | | | | | | | | | | |
| **AGGREGATE BASE**, DRY | 689.0 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL,LITTLE SILT, WET | | | 12<br>8<br>9 | 25 | 78 | SS-1 | - | - | - | - | - | - | - | - | - | 12 | A-3a (V) | |
| | | W 686.0 | | | | | | | | | | | | | | | | |
| | | | 3<br>5<br>4 | 13 | 100 | SS-2 | - | 21 | 22 | 45 | - 12 - | | NP | NP | NP | 16 | A-3a (0) | |
| | 684.0 | | | | | | | | | | | | | | | | | |
| VERY STIFF, GRAY, **SILT**, AND CLAY,TRACE SAND, DAMP | | | 4<br>6<br>9 | 22 | 100 | SS-3 | 3.50 | - | - | - | - | - | - | - | - | 35 | A-4b (V) | |
| | | | 6<br>6<br>8 | 21 | 100 | SS-4 | 4.00 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | | 4<br>5<br>6 | 16 | 100 | SS-5 | 2.50 | 0 | 0 | 1 | 61 | 38 | 29 | 21 | 8 | 22 | A-4b (8) | |
| | | | 5<br>6<br>8 | 21 | 100 | SS-6 | 2.75 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | 4<br>5<br>7 | 18 | 100 | SS-7 | 2.50 | - | - | - | - | - | - | - | - | 23 | A-4b (V) | |
| | 671.5 | ▽ 672.0 | | | | | | | | | | | | | | | | |
| HARD, GRAY, **SANDY SILT**, TRACE GRAVEL,LITTLE CLAY, MOIST TO WET | | | 4<br>6<br>7 | 19 | 100 | SS-8 | 4.50 | - | - | - | - | - | - | - | - | 14 | A-4a (V) | |
| | | | 8<br>11<br>10 | 31 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 35 | A-4a (V) | |
| @28.5' MEDIUM STIFF | | | 8<br>11<br>16 | 40 | 100 | SS-10 | 0.50 | 4 | 6 | 28 | 46 | 16 | 15 | 13 | 2 | 20 | A-4a (5) | |
| @33.5' HARD | | | 11<br>20<br>21 | 61 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 16 | A-4a (V) | |
| | 655.0 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 17.4 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:14 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1118 / TOTAL P.1135 | 40 / TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-050-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:04:43 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL008.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 102+50, 66' LT. | EXPLORATION ID B-051-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 688.7 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/6/21 END: 12/6/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.445349, -81.653847

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (3") | 688.4 | | | | | | | | | | | | | | | | | |
| STIFF, BROWN, **SILT**, SOME CLAY ,LITTLE GRAVEL,LITTLE SAND, ROCK FRAGMENTS, FILL,SLAG, DRY | 682.7 | | 7 4 3 | 10 | 78 | SS-1 | - | - | - | - | - | - | - | - | - | 14 | A-4b (V) | |
| | | | 4 4 6 | 15 | 67 | SS-2 | - | 15 | 4 | 8 | 53 | 20 | 24 | 20 | 4 | 20 | A-4b (8) | |
| HARD, GRAY, **SANDY SILT**, DAMP | 677.7 | | 3 4 8 | 18 | 100 | SS-3 | 4.00 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | | 4 5 8 | 19 | 100 | SS-4 | 4.50 | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| VERY STIFF, GRAY, **SANDY SILT**, AND CLAY, DAMP | | | 5 4 7 | 16 | 100 | SS-5 | 3.00 | 0 | 1 | 1 | 48 | 50 | 26 | 19 | 7 | 24 | A-4a (8) | |
| | | | 4 6 7 | 19 | 100 | SS-6 | 3.50 | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | | | 4 5 7 | 18 | 100 | SS-7 | 3.50 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | W 670.7 | | | | | | | | | | | | | | | | | |
| | ▽ 668.7 | | 5 6 8 | 21 | 100 | SS-8 | 2.50 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | 665.2 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, MOIST TO WET | 660.2 | | 4 7 11 | 27 | 100 | SS-9 | - | 0 | 6 | 12 | 66 | 16 | NP | NP | NP | 20 | A-4b (8) | |
| HARD, GRAY, **SANDY SILT**, MOIST TO WET | 658.7 | EOB | 11 12 14 | 39 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 102+75, 67' RT. | EXPLORATION ID B-052-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 686.1 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.445564, -81.653482

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (12") | 685.1 | | | | | | | | | | | | | | | | | |
| **AGGREGATE BASE**, DRY | 684.8 | | 3 4 5 | 13 | 44 | SS-1A | - | - | - | - | - | - | - | - | - | - | | |
| MEDIUM DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT, FILL, DAMP | 682.6 | | | | | SS-1B | - | - | - | - | - | - | - | - | - | 16 | A-1-b (V) | |
| VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST | | | 4 3 5 | 11 | 78 | SS-2 | 3.25 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | 3 4 5 | 13 | 28 | SS-3 | - | 4 | 3 | 2 | 60 | 31 | 25 | 20 | 5 | 19 | A-4b (8) | |
| | ▽ 675.9 | | 4 3 3 | 9 | 100 | SS-4 | 3.00 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | | | 3 3 4 | 10 | 100 | SS-5 | 2.50 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| @13.5' AND CLAY | | | 6 7 8 | 21 | 72 | SS-6 | 2.00 | 0 | 0 | 1 | 52 | 47 | 27 | 20 | 7 | 22 | A-4b (8) | |
| | 667.6 | W 667.6 | 4 4 5 | 13 | 100 | SS-7 | 3.25 | - | - | - | - | - | - | - | - | 26 | A-4b (V) | |
| DENSE, GRAY, **SANDY SILT**, SOME SAND, WET | | | 6 15 15 | 43 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |
| | 661.1 | EOB | 9 15 15 | 43 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 13 | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 10.3 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1119 TOTAL P.1135 | 41 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-051-0-20 & B-052-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:04:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL009.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 104+25, 68' RT. | EXPLORATION ID B-053-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 684.2 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.445952, -81.653844

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (6") | 683.7 | | | | | | | | | | | | | | | | | |
| VERY STIFF, BROWN TO GRAY, **SILT**, AND CLAY, TRACE FINE SAND, MOIST | | | 3 4 | 10 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | | | 4 5 | 13 | 100 | SS-2 | 2.00 | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | | 3 6 | 16 | 100 | SS-3 | 2.75 | 0 | 0 | 1 | 54 | 45 | 25 | 19 | 6 | 21 | A-4b (8) | |
| | | | 4 7 | 16 | 100 | SS-4 | 4.00 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | | 4 6 | 15 | 100 | SS-5 | 3.50 | 0 | 0 | 0 | 62 | 38 | 23 | 18 | 5 | 22 | A-4b (8) | |
| | | | 5 4 8 | 18 | 100 | SS-6 | 2.75 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | 668.2 | ▽ 668.2 | | | | | | | | | | | | | | | | |
| VERY STIFF TO HARD, GRAY, **SANDY SILT**, SOME FINE SAND, DAMP | | | 4 7 9 | 24 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 21 | A-4a (V) | |
| | | | 7 10 13 | 34 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 16 | A-4a (V) | |
| | | | 5 6 11 | 25 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 25 | A-4a (V) | |
| | 659.2 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 12.5 FT BGS

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 106+00, 82' RT. | EXPLORATION ID B-054-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 681.2 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.446344, -81.654205

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (6") | 680.7 | | | | | | | | | | | | | | | | | |
| DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, BRICKS, FILL, DAMP | | | 7 10 11 | 31 | 67 | SS-1 | - | - | - | - | - | - | - | - | - | 6 | A-1-b (V) | |
| | | | 7 12 9 | 31 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 19 | A-1-b (V) | |
| | 675.2 | | | | | | | | | | | | | | | | | |
| HARD, BROWN AND GRAY, **SILT**, SOME CLAY,TRACE GRAVEL, TRACE SAND, DAMP TO MOIST | | | 3 4 6 | 15 | 100 | SS-3 | >4.5 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| @8.5' VERY STIFF | | | 7 6 7 | 19 | 100 | SS-4 | 3.50 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | | 4 6 6 | 18 | 100 | SS-5 | 2.75 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | | | | 100 | ST-6 | - | 2 | 0 | 2 | 61 | 35 | 26 | 20 | 6 | 20 | A-4b (8) | |
| | 666.7 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **SANDY SILT**, WET | | ▽ 665.2 | 4 6 9 | 22 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 21 | A-4a (V) | |
| | | | 7 7 12 | 28 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | 662.7 | | | | | | | | | | | | | | | | | |
| DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, WET | | | 7 9 13 | 33 | 100 | SS-9 | - | 0 | 0 | 78 | - 22 - | | NP | NP | NP | 20 | A-3a (0) | |
| | | | 8 9 14 | 34 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 28 | A-3a (V) | |
| | 656.2 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-8

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1120 / TOTAL P.1135 | 42 / TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-053-0-20 & B-054-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:05:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL010.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 107+50, 103' RT. | EXPLORATION ID B-055-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | PAGE 1 OF 1
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 680.4 (ft) EOB: 25.0 ft.
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.446732, -81.654370

| MATERIAL DESCRIPTION AND NOTES | ELEV. 680.4 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (6") | 679.9 | | | | | | | | | | | | | | | | | |
| HARD, BROWN, **SANDY SILT**, FILL, DAMP | | | 3 4 4 | 12 | 100 | SS-1 | >4.5 | - | - | - | - | - | - | - | - | 14 | A-4a (V) | |
| | 676.9 | | | | | | | | | | | | | | | | | |
| STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, DAMP | | | 5 4 4 | 12 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 6 | A-4b (V) | |
| | | W 674.4 | 4 5 5 | 15 | 100 | SS-3 | 2.25 | 0 | 0 | 1 | 73 | 26 | 20 | 19 | 1 | 22 | A-4b (8) | |
| | | | 4 6 6 | 18 | 100 | SS-4 | 4.00 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | 3 4 5 | 13 | 100 | SS-5 | 1.25 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | | | 4 5 7 | 18 | 100 | SS-6 | 2.25 | - | - | - | - | - | - | - | - | 27 | A-4b (V) | |
| | 664.4 | ▽ 664.4 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN AND GRAY, **COARSE AND FINE SAND**, SOME SILT, TRACE GRAVEL, DAMP | | | 6 9 10 | 28 | 100 | SS-7 | - | 0 | 1 | 67 | 22 | 10 | NP | NP | NP | 21 | A-3a (0) | |
| @18.5' DENSE | | | 7 13 18 | 46 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 15 | A-3a (V) | |
| | 655.4 | EOB | 7 12 19 | 46 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 19 | A-3a (V) | |

NOTES: BOREHOLE CAVED IN AT 13.6 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 109+50, 141' RT. | EXPLORATION ID B-056-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | PAGE 1 OF 1
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 684.0 (ft) EOB: 25.0 ft.
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.447223, -81.654614

| MATERIAL DESCRIPTION AND NOTES | ELEV. 684.0 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (2") | 683.8 | | | | | | | | | | | | | | | | | |
| GRAY, **CONCRETE**, DRY | 683.0 | | | | | | | | | | | | | | | | | |
| DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, SOME SILT, LITTLE CLAY, FILL, DAMP | 680.5 | | 12 14 10 | 36 | 56 | SS-1 | - | - | - | - | - | - | - | - | - | 11 | A-1-b (V) | |
| LOOSE, BROWN, **SANDY SILT**, LITTLE CLAY, SOME GRAVEL, DAMP | | | 3 3 4 | 10 | 28 | SS-2 | - | 29 | 12 | 22 | 26 | 11 | NP | NP | NP | 16 | A-4a (0) | |
| | | W 678.0 | 2 2 2 | 6 | 28 | SS-3 | - | - | - | - | - | - | - | - | - | 11 | A-4a (V) | |
| | | | 2 2 2 | 6 | 33 | SS-4 | - | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| | 673.0 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST TO DAMP | | | 3 4 4 | 12 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | | 4 4 5 | 13 | 100 | SS-6 | - | 0 | 0 | 1 | 68 | 31 | 21 | 21 | NP | 21 | A-4b (8) | |
| | | ▽ 667.0 | 5 6 6 | 18 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | | 5 6 7 | 19 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | 659.0 | EOB | 5 7 9 | 24 | 89 | SS-9 | - | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |

NOTES: BOREHOLE CAVED IN AT 16.9 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1121 TOTAL P.1135 | 43 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-055-0-20 & B-056-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:05:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL011.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 122+00, 69' LT. | EXPLORATION ID B-059-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 661.2 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.450204, -81.656910

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASPHALT** (12") | 661.2 / 660.2 | | | | | | | | | | | | | | | | | |
| DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, FILL, DAMP | | | 17 10 14 | 36 | 56 | SS-1 | - | - | - | - | - | - | - | - | - | 6 | A-1-b (V) | |
| | | | 12 18 22 | 60 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 17 | A-1-b (V) | |
| HARD, BROWN, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, DAMP | 655.2 | | 6 5 5 | 15 | 100 | SS-3 | >4.5 | 3 | 3 | 26 | 48 | 20 | 18 | 15 | 3 | 12 | A-4a (7) | |
| | | | 7 8 8 | 24 | 100 | SS-4 | 4.25 | - | - | - | - | - | - | - | - | 11 | A-4a (V) | |
| @11.0' VERY STIFF | | | 7 5 6 | 16 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 15 | A-4a (V) | |
| | | | 6 8 10 | 27 | 100 | SS-6 | - | 9 | 24 | 22 | 28 | 17 | 18 | 15 | 3 | 15 | A-4a (2) | |
| @18.5' HARD | | | 5 7 7 | 21 | 100 | SS-7 | >4.5 | - | - | - | - | - | - | - | - | 14 | A-4a (V) | |
| MEDIUM DENSE, BROWN AND GRAY, **SILT**, LITTLE CLAY,LITTLE SAND, TRACE GRAVEL, DAMP | 637.7 | | 3 4 6 | 15 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | | ▼ 633.2 | 4 4 7 | 16 | 89 | SS-9 | - | 3 | 3 | 15 | 65 | 14 | NP | NP | NP | 30 | A-4b (8) | |
| | 631.2 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 21.4 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 129+30, 55' LT. | EXPLORATION ID B-060-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 651.4 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.452133, -81.657261

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | BACK FILL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (2") | 651.4 / 651.2 | | | | | | | | | | | | | | | | | |
| VERY STIFF, BROWN TO GRAY, **SILT**, FILL, DAMP | | | 3 5 7 | 17 | 72 | SS-1 | 3.50 | - | - | - | - | - | - | - | - | 14 | A-4b (V) | |
| @3.5' HARD | | | 3 4 4 | 11 | 100 | SS-2 | 4.50 | - | - | - | - | - | - | - | - | 14 | A-4b (V) | |
| | | | | 0 | ST-3 | - | - | - | - | - | - | - | - | - | - | - | A-4b (V) | |
| VERY STIFF, GRAY, **SANDY SILT**, FILL, DAMP | 642.9 | | 5 7 8 | 21 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 15 | A-4a (V) | |
| | | | 5 4 5 | 13 | 100 | SS-5 | 2.50 | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| VERY DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, CONCRETE FRAGMENTS, FILL, DAMP | 637.9 | | 21 23 14 | 53 | 78 | SS-6 | - | - | - | - | - | - | - | - | - | 10 | A-1-b (V) | |
| VERY STIFF, BROWN AND GRAY, **SILT**, TRACE SAND, DAMP | 635.4 | | 19 7 5 | 17 | 28 | SS-7 | 3.50 | - | - | - | - | - | - | - | - | 16 | A-4b (V) | |
| MEDIUM STIFF, BROWN AND GRAY, **SILT**, AND CLAY, TRACE SAND, DAMP | 632.9 | | 9 2 3 | 7 | 72 | SS-8 | 1.00 | 0 | 0 | 1 | 59 | 40 | 22 | 19 | 3 | 28 | A-4b (8) | |
| @23.5' HARD,OCCATIONAL COBBLES | | | 28 50 | - | 0 | SS-9 | - | - | - | - | - | - | - | - | - | - | A-4b (V) | |
| | | | 36 13 17 | 43 | 33 | SS-10 | - | - | - | - | - | - | - | - | - | 17 | A-4b (V) | |
| | 621.4 | EOB | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 12.8 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2
ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:53 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:54 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1122 / P.1135 (TOTAL) | 44 / 57 (TOTAL) | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-059-0-20 & B-060-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:05:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL012.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 131+25, 53' LT. | EXPLORATION ID B-061-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 650.6 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.452751, -81.657304

| MATERIAL DESCRIPTION AND NOTES | ELEV. 650.6 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (3") | 650.3 | ▽ 649.6 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, FILL, DAMP | | 1 | 7 5 15 | 29 | 33 | SS-1 | - | - | - | - | - | - | - | - | - | 14 | A-2-4 (V) | |
| @2.5' COBBLES | | 2 | | | | | | | | | | | | | | | | |
| @3.5' TRACE ORGANIC | | 3 | | | | | | | | | | | | | | | | |
| | | 4 | 11 7 6 | 19 | 28 | SS-2 | - | - | - | - | - | - | - | - | - | 6 | A-2-4 (V) | |
| | 644.6 | W 644.6 5 | | | | | | | | | | | | | | | | |
| LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, SOME GRAVEL, TRACE SILT,TRAE CLAY, MOIST TO WET | | 6 | 4 2 2 | 6 | 72 | SS-3 | - | - | - | - | - | - | - | - | - | 17 | A-1-b (V) | |
| | | 7 | | | | | | | | | | | | | | | | |
| | | 8 | | | | | | | | | | | | | | | | |
| | | 9 | 3 2 2 | 6 | 67 | SS-4 | - | 23 | 39 | 22 | - 16 - | | NP | NP | NP | 17 | A-1-b (0) | |
| | | 10 | | | | | | | | | | | | | | | | |
| @11.0' VERY LOOSE | | 11 | | | | | | | | | | | | | | | | |
| | | 12 | 2 1 1 | 3 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 20 | A-1-b (V) | |
| | 637.1 | 13 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **FINE SAND**, LITTLE SILT, MOIST | | 14 | 4 3 6 | 13 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 14 | A-3 (V) | |
| P.S. | | 15 | | | | | | | | | | | | | | | | |
| | | 16 | 4 6 4 | 14 | 89 | SS-7 | - | - | - | - | - | - | - | - | - | 15 | A-3 (V) | |
| | 632.1 | 17 | | | | | | | | | | | | | | | | |
| LOOSE, BROWN, **COARSE AND FINE SAND**, WET | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | 5 4 3 | 10 | 100 | SS-8 | - | - | - | - | - | - | - | - | - | 19 | A-3a (V) | |
| | 627.1 | 20 | | | | | | | | | | | | | | | | |
| STIFF, BROWN AND GRAY, **SANDY SILT**, AND CLAY, TRACE FIEN SAND, TRACE GRAVEL, DAMP | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | | | | | | | | | | | | | | | | |
| | | 23 | | | | | | | | | | | | | | | | |
| | | 24 | 4 3 4 | 10 | 56 | SS-9 | 2.00 | 1 | 0 | 1 | 48 | 50 | 25 | 18 | 7 | 25 | A-4a (8) | |
| | | 25 | | | | | | | | | | | | | | | | |
| | | 26 | | | | | | | | | | | | | | | | |
| | | 27 | | | | | | | | | | | | | | | | |
| | | 28 | | | | | | | | | | | | | | | | |
| @28.5' VERY STIFF | | 29 | | | | | | | | | | | | | | | | |
| | 620.6 | EOB | 6 7 12 | 27 | 39 | SS-10 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 7.3 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 136+50, 107' LT. | EXPLORATION ID B-062-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 650.0 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.454228, -81.657598

| MATERIAL DESCRIPTION AND NOTES | ELEV. 650.0 | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (7") | 649.4 | | | | | | | | | | | | | | | | | |
| VERY DENSE, BROWN GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DRY | | 1 | 38 50/2" | - | 125 | SS-1 | - | - | - | - | - | - | - | - | - | 11 | A-2-4 (V) | |
| | 646.5 | 2 | | | | | | | | | | | | | | | | |
| DENSE, BROWN GRAY, **SANDY SILT**, FILL, DAMP | | 3 | | | | | | | | | | | | | | | | |
| | | 4 | 11 9 16 | 36 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 12 | A-4a (V) | |
| | | 5 | | | | | | | | | | | | | | | | |
| | | 6 | | | | | | | | | | | | | | | | |
| | | 7 | | | | | | | | | | | | | | | | |
| @8.5' MEDIUM DENSE | | 8 | | | | | | | | | | | | | | | | |
| | | 9 | 6 5 7 | 17 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 14 | A-4a (V) | |
| | 636.5 | 10 | | | | | | | | | | | | | | | | |
| HARD, BROWN GRAY, **SANDY SILT**, AND CLAY, WET | | 11 | | | | | | | | | | | | | | | | |
| | | 12 | | | | | | | | | | | | | | | | |
| | | 13 | | | | | | | | | | | | | | | | |
| | 635.0 | 14 | 6 5 8 | 19 | 100 | SS-4 | >4.5 | 0 | 1 | 4 | 44 | 51 | 32 | 23 | 9 | 19 | A-4a (8) | |
| | | 15 | | | | | | | | | | | | | | | | |
| | 631.5 | 16 | | | | | | | | | | | | | | | | |
| HARD, BROWN GRAY, **SILT**, AND CLAY, WET | | 17 | | | | | | | | | | | | | | | | |
| | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | 17 12 16 | 40 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 10 | A-4b (V) | |
| | | 20 | | | | | | | | | | | | | | | | |
| | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | | | | | | | | | | | | | | | | |
| | | 23 | | | | | | | | | | | | | | | | |
| | 625.0 | 24 | 5 6 8 | 20 | 56 | SS-6 | >4.5 | - | - | - | - | - | - | - | - | 15 | A-4b (V) | |
| | | EOB 25 | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 12.6 FT BGS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 8/1/24 09:54 - C:\USERS\TGWILLIAMS\ONEDRIVE - TRC\DESKTOP\CUY-77 (2024)\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1123 TOTAL P.1135 | 45 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOGS
B-061-0-20 & B-062-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:06:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL013.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 138+18, 154' LT. | EXPLORATION ID B-063-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 661.0 (ft) EOB: 30.0 ft. | PAGE 1 OF 1 |
| START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.454629, -81.657604 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (6") | 661.0 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **SANDY SILT**, AND GRAVEL, FILL, DAMP | 660.5 | | 3 5 6 | 16 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |
| MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DAMP | 657.5 | | 7 6 7 | 19 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 11 | A-2-4 (V) | |
| VERY STIFF, BROWN, **SANDY SILT**, LITTLE CLAY, TRACE GRAVEL,FILL, DAMP | 655.0 | | 3 4 7 | 16 | 100 | SS-3 | 2.00 | 5 | 12 | 36 | 36 | 11 | 16 | 14 | 2 | 14 | A-4a (2) | |
| | | | 4 4 7 | 16 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 15 | A-4a (V) | |
| | | | 3 3 4 | 10 | 100 | SS-5 | 2.50 | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| @13.5' AND CLAY, FIINE SLAG, MOIST | 642.5 | | 4 3 5 | 12 | 100 | SS-6 | 2.25 | 3 | 4 | 16 | 41 | 36 | 22 | 16 | 6 | 19 | A-4a (8) | |
| STIFF, BROWN AND GRAY, **SILT**, AND CLAY, FINE SLAG, WET | | ▽ 638.5 | 3 3 3 | 9 | 100 | SS-7 | 1.25 | - | - | - | - | - | - | - | - | 31 | A-4b (V) | |
| | | W 638.0 | 3 4 5 | 13 | 100 | SS-8 | 1.50 | 0 | 0 | 0 | 59 | 41 | 23 | 20 | 3 | 28 | A-4b (8) | |
| | 631.0 | EOB | 4 4 5 | 13 | 100 | SS-9 | 1.50 | - | - | - | - | - | - | - | - | 26 | A-4b (V) | |

NOTES: BOREHOLE CAVED IN AT 19.0 FT BGS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 16:12 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1124 / TOTAL P.1135 | 46 / TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-063-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:06:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL013A.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 163+00, 52' LT. | EXPLORATION ID B-064-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 672.1 (ft) EOB: 35.0 ft. | PAGE 1 OF 1 |
| START: 12/2/21 END: 12/2/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.461446, -81.657368 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GRAVEL** | 671.1 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, SOME SAND, FILL, DRY | 668.6 | | 7 8 10 | 27 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 14 | A-1-a (V) | |
| MEDIUM DENSE, BROWN, **SANDY SILT**, TRACE GRAVEL, SOME CLAY, DRY | | | 5 6 8 | 21 | 100 | SS-2 | - | 0 | 3 | 45 | - 52 - | | NP | NP | NP | 14 | A-4 (3) | |
| | | | 7 8 8 | 24 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 15 | A-4a (V) | |
| | | | 4 4 6 | 15 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 8 | A-4a (V) | |
| @11.0' LOOSE | 658.6 | | 3 3 4 | 10 | 89 | SS-5 | - | - | - | - | - | - | - | - | - | 12 | A-4a (V) | |
| VERY LOOSE TO LOOSE, GRAY, **COARSE AND FINE SAND**, SOME GRAVEL,LITTLE CLAY, LITTLE SILT,FILL, WET | | | 2 2 3 | 7 | 67 | SS-6 | - | 27 | 34 | 25 | - 14 - | | NP | NP | NP | 20 | A-3a (0) | |
| | | ▽ 656.1 | 6 1 1 | 3 | 11 | SS-7 | - | - | - | - | - | - | - | - | - | 17 | A-3a (V) | |
| @18.5' MEDIUM DENSE | 651.1 | W 654.1 | 6 4 8 | 18 | 67 | SS-8 | - | - | - | - | - | - | - | - | - | 29 | A-3a (V) | |
| MEDIUM DENSE TO DENSE, GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, WET | | | 7 12 10 | 33 | 78 | SS-9 | - | - | - | - | - | - | - | - | - | 18 | A-2-4 (V) | |
| | | | 12 4 9 | 19 | 56 | SS-10 | - | - | - | - | - | - | - | - | - | 14 | A-2-4 (V) | |
| @26.0' VERY DENSE | | | 7 5 31 | 54 | 78 | SS-11 | - | - | - | - | - | - | - | - | - | 21 | A-2-4 (V) | |
| @28.5' MEDIUM DENSE | | | 7 8 12 | 30 | 78 | SS-12 | - | 25 | 9 | 39 | - 27 - | | NP | NP | NP | 18 | A-2-4 (0) | |
| | 637.1 | EOB | 4 9 11 | 30 | 100 | SS-13 | - | - | - | - | - | - | - | - | - | 21 | A-2-4 (V) | |

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:15 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1125 TOTAL P.1135 | 47 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-064-0-20

# CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:06:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL014.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/2/21 END: 12/2/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 165+00, 50' LT.
ALIGNMENT: CL IR 77
ELEVATION: 667.1 (ft) EOB: 35.0 ft.
LAT / LONG: 41.461975, -81.657453

EXPLORATION ID: B-065-0-20
PAGE: 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VERY DENSE, DARK BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, SOME SAND,TRACE SILT, TRACE CLAY,FILL, MOIST | 667.1 | | 12 14 21 | 52 | 100 | SS-1 | - | 69 | 19 | 9 | - 3 - | | NP | NP | NP | 11 | A-1-a (0) | |
| @3.5' MEDIUM DENSE | | | 8 7 9 | 24 | 78 | SS-2 | - | - | - | - | - | - | - | - | - | 2 | A-1-a (V) | |
| STIFF, BROWN, **SANDY SILT**, FILL, DRY | 661.1 | | 8 5 4 | 13 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 6 | A-4a (V) | |
| | | | 2 3 4 | 10 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 12 | A-4a (V) | |
| MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, SOME SILT SEAM, FILL, DAMP | 656.1 | | 8 6 13 | 28 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 10 | A-1-b (V) | |
| @13.5' LOOSE | | | 17 2 3 | 7 | 17 | SS-6 | - | - | - | - | - | - | - | - | - | 17 | A-1-b (V) | |
| STIFF, BROWN AND DARK GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, WITH BRICK FRAGMENTS,FILL, DAMP | 651.1 | | 2 3 4 | 10 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 16 | A-4a (V) | |
| | | | 3 4 4 | 12 | 100 | SS-8 | - | 5 | 8 | 21 | - 66 - | | 22 | 19 | 3 | 17 | A-4a (6) | |
| | | ▽ 646.5 W 646.1 | 5 4 4 | 12 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| @23.5' AND CLAY | | | 3 4 6 | 15 | 100 | SS-10 | - | 1 | 15 | 14 | - 70 - | | 24 | 18 | 6 | 17 | A-4a (7) | |
| | | | 4 3 7 | 15 | 100 | SS-11 | - | - | - | - | - | - | - | - | - | 14 | A-4a (V) | |
| | | | 4 4 4 | 12 | 100 | SS-12 | - | - | - | - | - | - | - | - | - | 18 | A-4a (V) | |
| @33.5' VERY STIFF | 632.1 | EOB | 4 7 10 | 25 | 100 | SS-13 | - | - | - | - | - | - | - | - | - | - | A-4a (V) | |

NOTES: BOREHOLE CAVED IN AT 17.5 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:17 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

SHEET P.1126 TOTAL P.1135 | SUBSET 48 TOTAL 57 | PROJECT ID 105743 | REVIEWER SDM 11/18/25 | DESIGNER NMC | DESIGN AGENCY TRC

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-065-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:06:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL015.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 167+00, 48' LT. | EXPLORATION ID B-066-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 662.1 (ft) EOB: 40.0 ft. | PAGE 1 OF 1 |
| START: 12/2/21 END: 12/2/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.462524, -81.657512 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GRAVEL**, FILL | 662.1 | | | | | | | | | | | | | | | | | |
| | 661.1 | | | | | | | | | | | | | | | | | |
| MEDIUM DENSE TO DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, FILL, MOIST | | 1 | 3 4 7 | 16 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 15 | A-1-b (V) | |
| | | 2 | | | | | | | | | | | | | | | | |
| | | 3 | | | | | | | | | | | | | | | | |
| | | 4 | 12 7 8 | 22 | 78 | SS-2 | - | - | - | - | - | - | - | - | - | 12 | A-1-b (V) | |
| | | 5 | | | | | | | | | | | | | | | | |
| | | 6 | | | | | | | | | | | | | | | | |
| | | 7 | 12 8 14 | 33 | 78 | SS-3 | - | - | - | - | - | - | - | - | - | 13 | A-1-b (V) | |
| | | 8 | | | | | | | | | | | | | | | | |
| | | 9 | 12 5 7 | 18 | 67 | SS-4 | - | - | - | - | - | - | - | - | - | 8 | A-1-b (V) | |
| | | 10 | | | | | | | | | | | | | | | | |
| | 651.1 | | | | | | | | | | | | | | | | | |
| LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, TRACE SILT, DAMP | | 11 | 3 3 4 | 10 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 11 | A-3a (V) | |
| | | 12 | | | | | | | | | | | | | | | | |
| | | 13 | | | | | | | | | | | | | | | | |
| | | 14 | 3 3 3 | 9 | 100 | SS-6 | - | 0 | 6 | 70 | - 24 - | | NP | NP | NP | 9 | A-3a (0) | |
| | | 15 | | | | | | | | | | | | | | | | |
| | | 16 | | | | | | | | | | | | | | | | |
| | | 17 | 3 2 4 | 9 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 9 | A-3a (V) | |
| | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | 3 4 3 | 10 | 67 | SS-8 | - | - | - | - | - | - | - | - | - | 10 | A-3a (V) | |
| | | 20 | | | | | | | | | | | | | | | | |
| | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | 3 3 3 | 9 | 100 | SS-9 | - | - | - | - | - | - | - | - | - | 6 | A-3a (V) | |
| | | 23 | | | | | | | | | | | | | | | | |
| | | 24 | 3 4 3 | 10 | 100 | SS-10 | - | - | - | - | - | - | - | - | - | 9 | A-3a (V) | |
| | | 25 | | | | | | | | | | | | | | | | |
| ▽ 636.8 | | | | | | | | | | | | | | | | | | |
| W 636.1 | | | | | | | | | | | | | | | | | | |
| | | 26 | | | | | | | | | | | | | | | | |
| | | 27 | 3 4 6 | 15 | 100 | SS-11 | - | 0 | 11 | 79 | - 10 - | | NP | NP | NP | 19 | A-3a (0) | |
| | | 28 | | | | | | | | | | | | | | | | |
| | | 29 | | | | | | | | | | | | | | | | |
| | | 30 | 3 4 8 | 18 | 100 | SS-12 | - | - | - | - | - | - | - | - | - | 17 | A-3a (V) | |
| | 631.1 | | | | | | | | | | | | | | | | | |
| VERY STIFF TO HARD, GRAY, **SANDY SILT**, WET | | 31 | | | | | | | | | | | | | | | | |
| | | 32 | 3 4 6 | 15 | 100 | SS-13 | - | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | | 33 | | | | | | | | | | | | | | | | |
| | | 34 | 4 4 4 | 12 | 100 | SS-14 | 3.75 | - | - | - | - | - | - | - | - | 17 | A-4a (V) | |
| | | 35 | | | | | | | | | | | | | | | | |
| | | 36 | | | | | | | | | | | | | | | | |
| | | 37 | 3 5 6 | 16 | 100 | SS-15 | 4.50 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | 38 | | | | | | | | | | | | | | | | |
| | | 39 | | | | | | | | | | | | | | | | |
| | 622.1 | | 4 3 7 | 15 | 100 | SS-16 | 3.75 | - | - | - | - | - | - | - | - | 13 | A-4a (V) | |
| | | EOB 40 | | | | | | | | | | | | | | | | |

NOTES: BOREHOLE CAVED IN AT 16.9 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-6 & SS-11

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:18 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1127 / TOTAL P.1135 | 49 / TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-066-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:07:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL016.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 169+00, 48' LT. | EXPLORATION ID B-067-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / KENTON F. | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 657.2 (ft) EOB: 50.0 ft. | PAGE 1 OF 1 |
| START: 12/14/21 END: 12/14/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.463050, -81.657630 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEDIUM DENSE, BLACK AND BROWN, **GRAVEL**, DRY | 657.2 | 1 | 4 4 5 | 13 | 75 | SS-1 | - | - | - | - | - | - | - | - | - | 12 | A-1-a (V) | |
| | 653.7 | 2 | | | | | | | | | | | | | | | | |
| HARD, BROWN, **SILT**, TRACE FINE SAND, DRY | | 3 | | | | | | | | | | | | | | | | |
| | 651.2 | 4 | 17 9 6 | 21 | 75 | SS-2 | >4.5 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| LOOSE, GRAY, **COARSE AND FINE SAND**, TRACE GRAVEL, SOME SILT,TRACE CLAY, DAMP | | 5 | | | | | | | | | | | | | | | | |
| | | 6 | 3 3 4 | 10 | 75 | SS-3 | - | - | - | - | - | - | - | - | - | 10 | A-3a (V) | |
| | | 7 | | | | | | | | | | | | | | | | |
| | | 8 | | | | | | | | | | | | | | | | |
| | | 9 | 3 3 3 | 9 | 75 | SS-4 | - | 3 | 8 | 68 | 21 | - | NP | NP | NP | 10 | A-3a (0) | |
| | | 10 | | | | | | | | | | | | | | | | |
| | | 11 | | | | | | | | | | | | | | | | |
| | | 12 | 2 3 3 | 9 | 100 | SS-5 | - | - | - | - | - | - | - | - | - | 10 | A-3a (V) | |
| | 643.7 | 13 | | | | | | | | | | | | | | | | |
| STIFF TO VERY STIFF, BROWN, **SILT**, SOME CLAY,TRACE GRAVEL, TRACE SAND, MOIST | | 14 | 3 3 3 | 9 | 50 | SS-6 | - | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 15 | | | | | | | | | | | | | | | | |
| | | 16 | | | | | | | | | | | | | | | | |
| | | 17 | 3 4 3 | 10 | 75 | SS-7 | 3.00 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | 18 | | | | | | | | | | | | | | | | |
| | | 19 | | | 81 | ST-8 | - | 0 | 1 | 2 | 70 | 27 | 26 | 19 | 7 | 22 | A-4b (8) | |
| | | 20 | | | | | | | | | | | | | | | | |
| @21.0' HARD | | 21 | | | | | | | | | | | | | | | | |
| | | 22 | 4 8 9 | 24 | 100 | SS-9 | >4.5 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 23 | | | | | | | | | | | | | | | | |
| @23.5' STIFF | | 24 | 3 4 5 | 13 | 100 | SS-10 | 2.00 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | | 25 | | | | | | | | | | | | | | | | |
| | | 26 | | | | | | | | | | | | | | | | |
| | | 27 | | | | | | | | | | | | | | | | |
| | 628.7 | 28 | | | | | | | | | | | | | | | | |
| MEDIUM DENSE, BROWN, **SILT**, LITTLE CLAY, LITTLE SAND, MOIST | | 29 | 3 4 7 | 16 | 100 | SS-11 | - | 0 | 0 | 12 | 78 | 10 | NP | NP | NP | 22 | A-4b (8) | |
| | | 30 | | | | | | | | | | | | | | | | |
| | | 31 | | | | | | | | | | | | | | | | |
| | | 32 | | | | | | | | | | | | | | | | |
| | | 33 | | | | | | | | | | | | | | | | |
| | | 34 | 4 4 5 | 13 | 100 | SS-12 | - | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | 35 | | | | | | | | | | | | | | | | |
| | | 36 | | | | | | | | | | | | | | | | |
| | | 37 | | | | | | | | | | | | | | | | |
| | 618.7 | 38 | | | | | | | | | | | | | | | | |
| STIFF TO VERY STIFF, GRAY, **SANDY SILT**, MOIST | | 39 | 3 5 4 | 13 | 100 | SS-13 | 1.75 | - | - | - | - | - | - | - | - | 25 | A-4a (V) | |
| | | 40 | | | | | | | | | | | | | | | | |
| | | 41 | | | | | | | | | | | | | | | | |
| | | 42 | | | | | | | | | | | | | | | | |
| | | 43 | | | | | | | | | | | | | | | | |
| | | 44 | 6 6 8 | 20 | 100 | SS-14 | 2.00 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | | 45 | | | | | | | | | | | | | | | | |
| | | 46 | | | | | | | | | | | | | | | | |
| | | 47 | | | | | | | | | | | | | | | | |
| | | 48 | | | | | | | | | | | | | | | | |
| | | 49 | 5 7 10 | 24 | 100 | SS-15 | 3.75 | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | 607.2 | EOB 50 | | | | | | | | | | | | | | | | |

NOTES: FINE CONTENT REPORTED AS SILT IN SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:19 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1128 TOTAL P.1135 | 50 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-067-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:07:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL017.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/14/21 END: 12/14/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 172+00, 48' LT.
ALIGNMENT: CL IR 77
ELEVATION: 662.0 (ft) EOB: 60.0 ft.
LAT / LONG: 41.464014, -81.657974

EXPLORATION ID B-068-0-20



| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VERY LOOSE, BLACK, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DRY | 662.0 | 1 | 2 2 1 | 4 | 5 | SS-1 | - | 23 | 16 | 32 | - 29 - | | NP | NP | NP | 11 | A-2-4 (0) | |
| | | 4 | 2 2 1 | 4 | 20 | SS-2 | - | - | - | - | - | - | - | - | - | 12 | A-2-4 (V) | |
| LOOSE TO MEDIUM DENSE, BROWN, **SILT**, TRACE CLAY, AND COARSE TO FINE SAND,TRACE GRAVEL, DRY | 656.0 | 6 | 4 3 4 | 10 | 75 | SS-3 | - | - | - | - | - | - | - | - | - | 4 | A-4b (V) | |
| | | 9 | 3 3 3 | 9 | 75 | SS-4 | - | 1 | 0 | 36 | - 63 - | | NP | NP | NP | 17 | A-4b (6) | |
| | | 12 | 4 4 5 | 13 | 75 | SS-5 | - | - | - | - | - | - | - | - | - | 6 | A-4b (V) | |
| | | 14 | 4 4 4 | 11 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| VERY STIFF TO HARD, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, DAMP | 646.0 | 16 | 2 5 6 | 16 | 80 | SS-7 | - | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 19 | 8 12 15 | 39 | 70 | SS-8 | - | - | - | - | - | - | - | - | - | 9 | A-4b (V) | |
| | | 24 | 6 7 9 | 23 | 100 | SS-9 | >4.5 | 0 | 0 | 11 | 69 | 20 | 20 | 18 | 2 | 14 | A-4b (8) | |
| | | 29 | 8 11 12 | 33 | 100 | SS-10 | >4.5 | - | - | - | - | - | - | - | - | 13 | A-4b (V) | |
| | | 34 | 9 10 11 | 30 | 50 | SS-11 | >4.5 | - | - | - | - | - | - | - | - | 16 | A-4b (V) | |
| | | 39 | 10 7 9 | 23 | 100 | SS-12 | 3.50 | 0 | 0 | 1 | 68 | 31 | 22 | 20 | 2 | 20 | A-4b (8) | |
| STIFF TO VERY STIFF, GRAY, **SANDY SILT**, DAMP TO MOIST | 618.5 | 44 | 5 6 8 | 20 | 100 | SS-13 | 3.00 | - | - | - | - | - | - | - | - | 24 | A-4a (V) | |
| | | 49 | 5 7 8 | 21 | 100 | SS-14 | 2.25 | - | - | - | - | - | - | - | - | 25 | A-4a (V) | |
| | | 54 | 4 6 7 | 19 | 100 | SS-15 | 1.50 | - | - | - | - | - | - | - | - | 24 | A-4a (V) | |
| | 602.0 | 59 | 6 8 11 | 27 | 100 | SS-16 | 3.25 | - | - | - | - | - | - | - | - | 20 | A-4a (V) | |
| | | EOB | | | | | | | | | | | | | | | | |

NOTES: FINE CONTENT REPORTED AS SILT IN SS-1

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 10/30/25 14:19 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1129 TOTAL P.1135 | 51 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-068-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:07:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL018.dgn

| | | | | | |
|---|---|---|---|---|---|
| PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 170+75, 64' LT. | EXPLORATION ID B-070-0-20 |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / KENTON F. | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 | |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 656.8 (ft) EOB: 110.0 ft. | PAGE 1 OF 2 |
| START: 12/15/21 END: 12/15/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.468506, -81.659955 | |

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DENSE, BLACK, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, LITTLE SILT,SLAG, FILL, DAMP | 656.8 | 1 | 15 14 15 | 41 | 100 | SS-1 | - | - | - | - | - | - | - | - | - | 12 | A-2-4 (V) | |
| @3.5' MEDIUM DENSE | | 4 | 9 8 5 | 19 | 50 | SS-2 | - | - | - | - | - | - | - | - | - | 11 | A-2-4 (V) | |
| | | 7 | 9 9 3 | 17 | 33 | SS-3 | - | 35 | 11 | 39 | - 15 - | | NP | NP | NP | 11 | A-2-4 (0) | |
| SOFT, BROWN, **SANDY SILT**, MOIST | 648.3 | 9 | 3 1 1 | 3 | 100 | SS-4 | - | - | - | - | - | - | - | - | - | 36 | A-4a (V) | |
| @11.0' VERY STIFF | | 12 | 4 7 7 | 20 | 70 | SS-5 | - | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST | 643.3 | 14 | 7 7 11 | 26 | 70 | SS-6 | 1.50 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | 17 | 4 3 3 | 9 | 100 | SS-7 | 2.00 | 0 | 0 | 1 | 70 | 29 | 22 | 20 | 2 | 23 | A-4b (8) | |
| | | 19 | 3 3 4 | 10 | 75 | SS-8 | 3-3.25 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| @21.0' LITTLE CLAY | | 22 | | | 100 | ST-9 | - | 0 | 0 | 1 | 80 | 19 | 22 | 19 | 3 | 20 | A-4b (8) | |
| | | 24 | 3 7 6 | 19 | 100 | SS-10 | 3.50 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 29 | 3 4 6 | 14 | 100 | SS-11 | 2.75 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 32 | | | 100 | ST-12 | - | 0 | 0 | 0 | 80 | 20 | 25 | 21 | 4 | 26 | A-4b (8) | |
| | | 34 | 2 3 3 | 9 | 100 | SS-13 | 1.25 | - | - | - | - | - | - | - | - | 27 | A-4b (V) | |
| | | 39 | | | 100 | ST-14 | - | 0 | 0 | 1 | 62 | 37 | 29 | 20 | 9 | 23 | A-4b (8) | |
| | | 44 | 3 6 7 | 19 | 100 | SS-15 | 0.25 | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| | | 49 | 4 7 6 | 19 | 100 | SS-16 | 1.50 | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| @53.5' MEDIUM STIFF | | 54 | 4 5 6 | 16 | 100 | SS-17 | 0.50 | - | - | - | - | - | - | - | - | 19 | A-4b (V) | |
| @58.5' STIFF,AND CLAY | | 59 | 4 6 8 | 20 | 100 | SS-18 | 1-1.5 | 0 | 0 | 0 | 60 | 40 | 24 | 19 | 5 | 20 | A-4b (8) | |

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:20 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1130 TOTAL P.1135 | 52 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-070-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:08:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL019.dgn

PID: 105743 | SFN: CUY-77-11.21 | PROJECT: CUY-77-11.2 | STATION / OFFSET: 170+75, 64' LT. | START: 12/15/21 | END: 12/15/21 | PG 2 OF 2 | B-070-0-20

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST *(continued)* | 596.8 | 61 | | | | | | | | | | | | | | | | |
| | | 62 | | | | | | | | | | | | | | | | |
| | | 63 | | | | | | | | | | | | | | | | |
| | | 64 | 4 4 6 | 14 | 100 | SS-19 | 1.5-2 | - | - | - | - | - | 22 | 20 | 2 | 21 | A-4b (V) | |
| | | 65 | | | | | | | | | | | | | | | | |
| | | 66 | | | | | | | | | | | | | | | | |
| | | 67 | | | | | | | | | | | | | | | | |
| | | 68 | | | | | | | | | | | | | | | | |
| | | 69 | 4 5 6 | 16 | 100 | SS-20 | 1-1.5 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | 70 | | | | | | | | | | | | | | | | |
| | | 71 | | | | | | | | | | | | | | | | |
| | | 72 | | | | | | | | | | | | | | | | |
| | | 73 | | | | | | | | | | | | | | | | |
| | | 74 | 3 5 7 | 17 | 100 | SS-21 | 1-2.5 | - | - | - | - | - | - | - | - | 27 | A-4b (V) | |
| | | 75 | | | | | | | | | | | | | | | | |
| | | 76 | | | | | | | | | | | | | | | | |
| | | 77 | | | | | | | | | | | | | | | | |
| | | 78 | | | | | | | | | | | | | | | | |
| | | 79 | 4 7 7 | 20 | 100 | SS-22 | 1.50 | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | 80 | | | | | | | | | | | | | | | | |
| | | 81 | | | | | | | | | | | | | | | | |
| | | 82 | | | | | | | | | | | | | | | | |
| | | 83 | | | | | | | | | | | | | | | | |
| | | 84 | 4 5 6 | 16 | 100 | SS-23 | 1.50 | - | - | - | - | - | - | - | - | 26 | A-4b (V) | |
| | | 85 | | | | | | | | | | | | | | | | |
| | | 86 | | | | | | | | | | | | | | | | |
| | | 87 | | | | | | | | | | | | | | | | |
| | | 88 | | | | | | | | | | | | | | | | |
| STIFF, GRAY, **SANDY SILT**, AND CLAY, TRACE GRAVEL, MOIST | 568.3 | 89 | 3 3 6 | 13 | 100 | SS-24 | 1-1.5 | 1 | 2 | 3 | 40 | 54 | 29 | 19 | 10 | 23 | A-4a (8) | |
| | | 90 | | | | | | | | | | | | | | | | |
| | | 91 | | | | | | | | | | | | | | | | |
| | | 92 | | | | | | | | | | | | | | | | |
| | | 93 | | | | | | | | | | | | | | | | |
| | | 94 | 1 3 6 | 13 | 100 | SS-25 | 1-1.5 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | | 95 | | | | | | | | | | | | | | | | |
| | | 96 | | | | | | | | | | | | | | | | |
| | | 97 | | | | | | | | | | | | | | | | |
| | | 98 | | | | | | | | | | | | | | | | |
| | | 99 | 3 4 7 | 16 | 100 | SS-26 | 1-1.5 | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | | 100 | | | | | | | | | | | | | | | | |
| | | 101 | | | | | | | | | | | | | | | | |
| | | 102 | | | | | | | | | | | | | | | | |
| | | 103 | | | | | | | | | | | | | | | | |
| | | 104 | 3 4 6 | 14 | 100 | SS-27 | 1-1.5 | - | - | - | - | - | - | - | - | 22 | A-4a (V) | |
| | | 105 | | | | | | | | | | | | | | | | |
| | | 106 | | | | | | | | | | | | | | | | |
| | | 107 | | | | | | | | | | | | | | | | |
| | | 108 | | | | | | | | | | | | | | | | |
| | | 109 | 3 4 8 | 17 | 100 | SS-28 | 1-1.5 | - | - | - | - | - | - | - | - | 21 | A-4a (V) | |
| | 546.8 | EOB 110 | | | | | | | | | | | | | | | | |

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:20 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1131 / P.1135 TOTAL | 53 / 57 TOTAL | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-070-0-20 (CONT.)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:08:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL020.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/17/21 END: 12/17/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 170+00, 64' RT.
ALIGNMENT: CL IR 77
ELEVATION: 654.4 (ft) EOB: 110.0 ft.
LAT / LONG: 41.463548, -81.657747

EXPLORATION ID B-071-0-20



| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEDIUM DENSE, BLACK, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT,SLAG, FILL, DRY | 654.4 | 1 | 15 6 8 | 20 | 33 | SS-1 | - | 64 | 16 | 11 | - 9 | - | NP | NP | NP | 9 | A-1-a (0) | |
| MEDIUM DENSE, BROWN, **FINE SAND**, LITTLE SILT, DAMP | 650.9 | 4 | 5 10 9 | 27 | 75 | SS-2 | - | - | - | - | - | - | - | - | - | 9 | A-3 (V) | |
| MEDIUM DENSE, DARK BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, SOME GRAVEL, ROCK FRAGMENTS, DAMP | 648.4 | 6 | 4 6 5 | 16 | 5 | SS-3 | - | - | - | - | - | - | - | - | - | 13 | A-2-4 (V) | |
| LOOSE TO MEDIUM DENSE, BROWN, **SILT**, LITTLE CLAY, TRACE FINE SAND, MOIST TO DAMP | 645.9 | 9 | 2 2 3 | 7 | 50 | SS-4 | - | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 11 | 2 6 10 | 23 | 80 | SS-5 | - | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| @13.5' DENSE | | 14 | 10 14 14 | 40 | 75 | SS-6 | - | - | - | - | - | - | - | - | - | 16 | A-4b (V) | |
| @16.0' MEDIUM DENSE | | 17 | 8 8 9 | 24 | 100 | SS-7 | - | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | 19 | 3 5 10 | 21 | 100 | SS-8 | - | 0 | 0 | 2 | 79 | 19 | 19 | 19 | NP | 19 | A-4b (8) | |
| VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND,TRACE GRAVEL, MOIST | 633.4 | 22 | 6 6 7 | 19 | 100 | SS-9 | 3.50 | - | - | - | - | - | - | - | - | 17 | A-4b (V) | |
| | | 24 | 6 8 7 | 21 | 100 | SS-10 | 3.50 | - | - | - | - | - | - | - | - | 18 | A-4b (V) | |
| | | 27 | | | 100 | ST-11 | - | 0 | 1 | 3 | 69 | 27 | 23 | 19 | 4 | 19 | A-4b (8) | |
| | | 29 | 3 4 5 | 13 | 100 | SS-12 | 3.50 | 0 | 0 | 1 | 67 | 32 | 21 | 19 | 2 | 22 | A-4b (8) | |
| | | 34 | 4 7 6 | 19 | 100 | SS-13 | 3.50 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | 37 | | | 100 | ST-14 | - | 0 | 0 | 1 | 77 | 22 | 22 | 19 | 3 | 23 | A-4b (8) | |
| @38.5' STIFF,AND CLAY | | 39 | 2 2 4 | 9 | 100 | SS-15 | 2.00 | 0 | 0 | 0 | 50 | 50 | 25 | 19 | 6 | 26 | A-4b (8) | |
| GRAY, **SILT AND CLAY**, TRACE FINE SAND | 613.4 | 42 | | | 100 | ST-16 | - | 0 | 0 | 0 | 68 | 32 | 33 | 21 | 12 | 26 | A-6a (9) | |
| STIFF TO VERY STIFF, GRAY, **SILT**, AND CLAY, MOIST TO DAMP | 610.9 | 44 | 3 3 4 | 10 | 100 | SS-17 | 1.5-2 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | 49 | 4 3 6 | 13 | 100 | SS-18 | 1.50 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | 54 | 4 6 7 | 19 | 100 | SS-19 | 3.00 | - | - | - | - | - | - | - | - | 20 | A-4b (V) | |
| | | 59 | 2 4 5 | 13 | 100 | SS-20 | 2.00 | 0 | 0 | 0 | 59 | 41 | 27 | 20 | 7 | 25 | A-4b (8) | |

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:21 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ



STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-071-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:08:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL021.dgn

PID: 105743 | SFN: CUY-77-11.21 | PROJECT: CUY-77-11.2 | STATION / OFFSET: 170+00, 64' RT. | START: 12/17/21 | END: 12/17/21 | PG 2 OF 2 | B-071-0-20

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STIFF TO VERY STIFF, GRAY, **SILT**, AND CLAY, MOIST TO DAMP *(continued)* | 594.4 | 61 | | | | | | | | | | | | | | | | |
| | | 62 | | | | | | | | | | | | | | | | |
| | | 63 | | | | | | | | | | | | | | | | |
| @63.5' MEDIUM STIFF | | 64 | 2 3 5 | 11 | 100 | SS-21 | 0.5-1 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | | 65 | | | | | | | | | | | | | | | | |
| | | 66 | | | | | | | | | | | | | | | | |
| | | 67 | | | | | | | | | | | | | | | | |
| | | 68 | | | | | | | | | | | | | | | | |
| | | 69 | 3 4 7 | 16 | 100 | SS-22 | 1.00 | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | 70 | | | | | | | | | | | | | | | | |
| | | 71 | | | | | | | | | | | | | | | | |
| | | 72 | | | | | | | | | | | | | | | | |
| | | 73 | | | | | | | | | | | | | | | | |
| @73.5' VERY STIFF | | 74 | 3 4 6 | 14 | 100 | SS-23 | 2.50 | 0 | 0 | 1 | 65 | 34 | 23 | 21 | 2 | 19 | A-4b (8) | |
| | | 75 | | | | | | | | | | | | | | | | |
| | | 76 | | | | | | | | | | | | | | | | |
| | | 77 | | | | | | | | | | | | | | | | |
| | | 78 | | | | | | | | | | | | | | | | |
| @78.5' STIFF | | 79 | 5 5 8 | 19 | 100 | SS-24 | 1.25 | 0 | 0 | 1 | 34 | 65 | - | - | - | 17 | A-4b (V) | |
| | | 80 | | | | | | | | | | | | | | | | |
| | | 81 | | | | | | | | | | | | | | | | |
| | | 82 | | | | | | | | | | | | | | | | |
| | | 83 | | | | | | | | | | | | | | | | |
| | | 84 | 3 4 6 | 14 | 100 | SS-25 | 1.50 | - | - | - | - | - | - | - | - | 25 | A-4b (V) | |
| | | 85 | | | | | | | | | | | | | | | | |
| | | 86 | | | | | | | | | | | | | | | | |
| | | 87 | | | | | | | | | | | | | | | | |
| | | 88 | | | | | | | | | | | | | | | | |
| | | 89 | 3 4 7 | 16 | 100 | SS-26 | 1.50 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | 90 | | | | | | | | | | | | | | | | |
| | | 91 | | | | | | | | | | | | | | | | |
| | | 92 | | | | | | | | | | | | | | | | |
| | | 93 | | | | | | | | | | | | | | | | |
| | | 94 | 3 8 6 | 20 | 100 | SS-27 | 1.50 | - | - | - | - | - | - | - | - | 24 | A-4b (V) | |
| | | 95 | | | | | | | | | | | | | | | | |
| | | 96 | | | | | | | | | | | | | | | | |
| | | 97 | | | | | | | | | | | | | | | | |
| | | 98 | | | | | | | | | | | | | | | | |
| | | 99 | 4 4 7 | 16 | 100 | SS-28 | 1.50 | - | - | - | - | - | - | - | - | 22 | A-4b (V) | |
| | | 100 | | | | | | | | | | | | | | | | |
| | | 101 | | | | | | | | | | | | | | | | |
| | | 102 | | | | | | | | | | | | | | | | |
| | | 103 | | | | | | | | | | | | | | | | |
| | | 104 | 3 6 9 | 21 | 100 | SS-29 | 1.5-2 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | | 105 | | | | | | | | | | | | | | | | |
| | | 106 | | | | | | | | | | | | | | | | |
| | | 107 | | | | | | | | | | | | | | | | |
| | | 108 | | | | | | | | | | | | | | | | |
| | | 109 | 3 4 6 | 14 | 100 | SS-30 | 1.00 | - | - | - | - | - | - | - | - | 21 | A-4b (V) | |
| | 544.4 | EOB 110 | | | | | | | | | | | | | | | | |

NOTES: FINE CONTENT REPORTED AS SILT IN SS-1

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/30/25 14:21 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-11_8_2023.GPJ

SHEET P.1133 TOTAL P.1135 | SUBSET 55 TOTAL 57 | PROJECT ID 105743 | REVIEWER SDM 11/18/25 | DESIGNER NMC | DESIGN AGENCY TRC

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-071-0-20 (CONT.)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:08:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL022.dgn

PROJECT: CUY-77-11.21
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/1/21 END: 12/1/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 181+50, 150' LT.
ALIGNMENT: CL IR 77
ELEVATION: 656.6 (ft) EOB: 25.0 ft.
LAT / LONG: 41.463258, -81.656963

EXPLORATION ID B-072-0-20
PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GR | CS | FS | SI | CL | LL | PL | PI | WC | ODOT CLASS (GI) | HOLE SEALED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (4") | 656.6 | | | | | | | | | | | | | | | | | |
| VERY STIFF TO HARD, BROWN TO BLACK, **SANDY SILT**, SLAG,ROCK FRAGMENTS, FILL, DRY | 656.2 | | 4 8 10 | 26 | 75 | SS-1 | - | - | - | - | - | - | - | - | - | - | A-4a (V) | |
| | | | 15 14 11 | 36 | 100 | SS-2 | - | - | - | - | - | - | - | - | - | 9 | A-4a (V) | |
| | | | 32 18 22 | 57 | 25 | SS-3 | - | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| | | | 60/2" | - | 5 | SS-4 | - | - | - | - | - | - | - | - | - | 19 | A-4a (V) | |
| | 641.6 | | | | | | | | | | | | | | | | | |
| VERY DENSE, GRAY, **FINE SAND**, SOME SILT, MOIST TO WET | | ▽ 640.6 | 13 24 23 | 67 | 100 | SS-5 | - | 0 | 1 | 75 | - | 24 - | NP | NP | NP | 17 | A-3 (0) | |
| F.S. | | | 9 20 24 | 63 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 21 | A-3a (V) | |
| | 631.6 | EOB | | | | | | | | | | | | | | | | |

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 11/20/25 17:42 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-7-15-2024.GPJ

SHEET P.1134 | TOTAL P.1135
SUBSET 56 | TOTAL 57
PROJECT ID 105743
REVIEWER SDM 11/18/25
DESIGNER NMC
DESIGN AGENCY TRC

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-072-0-20

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/21/2025 TIME: 12:09:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: TGwilliams@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\TRC Stage 2\105743_ZL023.dgn

| | | | |
|---|---|---|---|
| PROJECT: CUY-77-11.21 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 190+00, 150' LT. |
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / KENTON F. | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77 |
| PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 656.6 (ft) EOB: 25.0 ft. |
| START: 12/1/21 END: 12/1/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.466303, -81.658850 |

EXPLORATION ID B-073-0-20

PAGE 1 OF 1

| MATERIAL DESCRIPTION AND NOTES | ELEV. | DEPTHS | SPT/ RQD | $N_{60}$ | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) GR | CS | FS | SI | CL | ATTERBERG LL | PL | PI | WC | ODOT CLASS (GI) | BACK FILL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TOPSOIL** (4") | 656.6 | | | | | | | | | | | | | | | | | |
| STIFF, DARK BROWN, **SILT**, AND SAND, DAMP | 656.2 | | 3 3 5 | 11 | 100 | SS-1 | 1.50 | - | - | - | - | - | - | - | - | - | A-4b (V) | |
| | 653.1 | | | | | | | | | | | | | | | | | |
| VERY DENSE, BROWN, **SANDY SILT**, TRACE CLAY, TRACE GRAVEL, MOIST TO WET | | | 15 13 19 | 46 | 100 | SS-2 | - | 3 | 13 | 41 | - 43 - | | NP | NP | NP | 11 | A-4a (2) | |
| | | | 8 14 18 | 46 | 100 | SS-3 | - | - | - | - | - | - | - | - | - | 9 | A-4a (V) | |
| @13.5' DENSE | | | 8 10 12 | 31 | 50 | SS-4 | - | - | - | - | - | - | - | - | - | 23 | A-4a (V) | |
| | 638.1 | | | | | | | | | | | | | | | | | |
| VERY DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, DAMP | | | 8 20 23 | 61 | 75 | SS-5 | - | 0 | 0 | 66 | - 34 - | | NP | NP | NP | 24 | A-3a (0) | |
| | | | 14 18 28 | 66 | 100 | SS-6 | - | - | - | - | - | - | - | - | - | 18 | A-3a (V) | |
| | 631.6 | EOB | | | | | | | | | | | | | | | | |

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 11/20/25 17:43 - C:\USERS\TGWILLIAMS\DESKTOP\CUY LOGS-7-15-2024.GPJ

| SHEET | SUBSET | PROJECT ID | REVIEWER | DESIGNER | DESIGN AGENCY |
|---|---|---|---|---|---|
| P.1135 TOTAL P.1135 | 57 TOTAL 57 | 105743 | SDM 11/18/25 | NMC | TRC |

STRUCTURE FOUNDATION EXPLORATION
BORING LOG
B-073-0-20

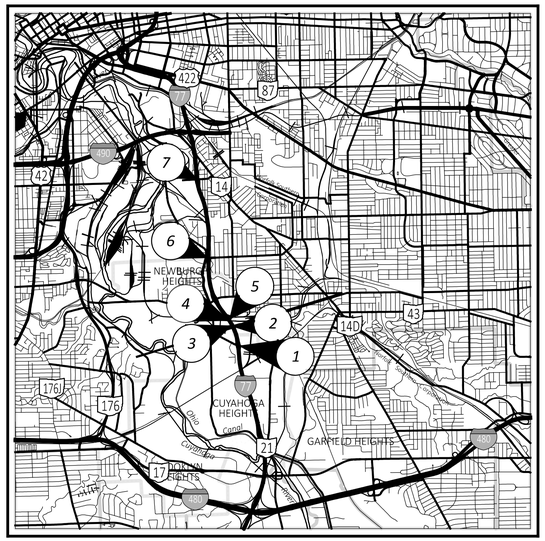
# STATE OF OHIO
# DEPARTMENT OF TRANSPORTATION

# CUY-77-11.21 - PART 2

## CITY OF CLEVELAND
## VILLAGES OF CUYAHOGA HEIGHTS AND NEWBURGH HEIGHTS
## CUYAHOGA COUNTY

*FOR PART 1, SEE CUY-77-11.41 - PART 1*

| LOCATION | BRIDGE NUMBER | STRUCTURAL FILE NUMBER | CITY/TOWNSHIP |
|---|---|---|---|
| 1 | CUY-14684-0.350 | 1806378 | CUYAHOGA HEIGHTS |
| 2 | CUY-00077-11.690 | 1806408 | CUYAHOGA HEIGHTS |
| 3 | CUY-00077-11.710 | 1806440 | CUYAHOGA HEIGHTS |
| 4 | CUY-00077-11.780 | 1806491 | CUYAHOGA HEIGHTS |
| 5 | CUY-00077-11.803 | 1806432 | CUYAHOGA HEIGHTS |
| 6 | CUY-14752-0.018 | 1806521 | CLEVELAND |
| 7 | CUY-04462-0.159 | 1806645 | CLEVELAND |
| 8-13 | RETAINING WALLS | - | VARIES |




**LOCATION MAP**
*(FOR COORDINATES PER LOCATION, SEE SHEET P.2.)*

*SCALE IN MILES*
0 1
0.5 2

*PORTION TO BE IMPROVED*
*INTERSTATE HIGHWAY*
*FEDERAL ROUTES*
*STATE ROUTES*
*COUNTY & TOWNSHIP ROADS*
*OTHER ROADS*

### DESIGN DESIGNATION
*SEE PART 1*

### DESIGN EXCEPTIONS
*NONE REQUIRED*

### ADA DESIGN WAIVERS
*NONE REQUIRED*

### INDEX OF SHEETS:


| | |
|---|---|
| TITLE SHEET | P.1 |
| SCHEMATIC PLAN | P.2 |
| GENERAL NOTES | P.3 |
| LOCATION 1 | P.4-P.9 |
| LOCATION 2 | P.10-P.12 |
| LOCATION 3 | P.13-P.15 |
| LOCATION 4 | P.16-P.18 |
| LOCATION 5 | P.19-P.21 |
| LOCATION 6 | P.22 |
| LOCATION 7 | P.23 |
| LOCATION 8-13 | P.24 |


### FEDERAL PROJECT NUMBER
E190 (575)

### RAILROAD INVOLVEMENT
OMNITRAX

### PROJECT DESCRIPTION
*THIS PROJECT CONSISTS OF PATCHING AND SEALING CONCRETE STRUCTURES, STRUCTURAL STEEL PAINTING, AND OTHER MISCELLANEOUS REPAIRS ON SEVEN BRIDGES AND SIX RETAINING WALLS.*

### EARTH DISTURBED AREAS

| | |
|---|---|
| *PROJECT EARTH DISTURBED AREA:* | *0.0 ACRES* |
| *ESTIMATED CONTRACTOR EARTH DISTURBED AREA:* | *0.0 ACRES* |
| *NOTICE OF INTENT EARTH DISTURBED AREA:* | *N/A (NOI NOT REQUIRED)* |

### LIMITED ACCESS
*THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.*

### 2023 SPECIFICATIONS
*THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.*

*I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON PART 1 AND 2 PLAN SETS.*

John Picuri, P.E., P.S.
District 12 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

STAGE 2 REVISED SUBMITTAL
NOVEMBER 21, 2025
NOT FOR CONSTRUCTION


Preliminary Plans - For Reference Only


**UNDERGROUND UTILITIES**
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

*PLAN PREPARED BY:*
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

*ENGINEERS SEAL:*

*SIGNED:*
*DATE:* XX-XX-XX

| STANDARD CONSTRUCTION DRAWINGS | | | | | SUPPLEMENTAL SPECIFICATIONS | SPECIAL PROVISIONS |
|---|---|---|---|---|---|---|
| | | SEE PART 1 | | | SEE PART 1 | SEE PART 1 |

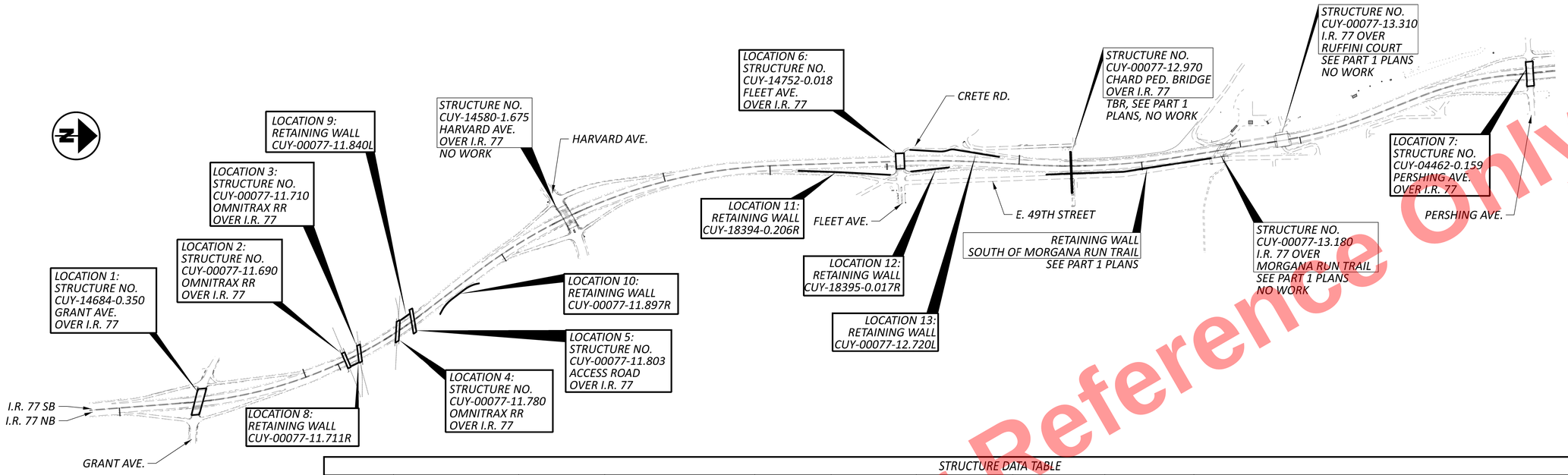
DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

DESIGNER: PN
REVIEWER: MRW 11/20/25
PROJECT ID: 105743
SHEET: P.1 TOTAL: P.24

TITLE SHEET

CUY-77-11.21 PART 2


MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:33:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: prateek.nepal@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806378_AECOM\Sheets\105743_SFN_1806378_GT001.dgn




HORIZONTAL SCALE IN FEET
0 250 500 1000

STRUCTURE DATA TABLE

| LOCATION | BRIDGE/WALL NUMBER | STRUCTURAL FILE NUMBER | STRUCTURE TYPE | STRUCTURE LIMITS | LATITUDE & LONGITUDE | BRIDGE WIDTH (OUT/OUT) | LANES ON | LANES UNDER | PROPOSED WORK (WORK SHOWN IS REPRESENTATIVE AND DOES NOT INCLUDE ALL WORK REQUIRED) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | CUY-14684-0.350 | 1806378 | 3-SPAN CONTINUOUS ROLLED STEEL BEAM | 205'± | 41º26'19"N 81º38'54"W | 66.3'± | 4 | 6 | REPLACE APPROACH RAILINGS AND SIDEWALKS<br>REPLACE ACCESS DOORS<br>SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 2 | CUY-00077-11.690 | 1806408 | SINGLE SPAN WELDED BUILT-UP STEEL | 141.8'± | 41º26'33"N 81º39'03"W | 24.3'± | 1 (TRACK) | 6 | PAINT STEEL BEAMS<br>SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 3 | CUY-00077-11.710 | 1806440 | SINGLE SPAN WELDED BUILT-UP STEEL | 151.8'± | 41º26'35"N 81º39'04"W | 24.3'± | 1 (TRACK) | 6 | PAINT STEEL BEAMS<br>SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 4 | CUY-00077-11.780 | 1806491 | SINGLE SPAN WELDED BUILT-UP STEEL | 181.8'± | 41º26'37"N 81º39'07"W | 24.3'± | 1 (TRACK) | 6 | PAINT STEEL BEAMS<br>SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 5 | CUY-00077-11.803 | 1806432 | SINGLE SPAN WELDED BUILT-UP STEEL | 150.8'± | 41º26'39"N 81º39'07"W | 27'± | 2 (UNSTRIPED) | 6 | PAINT STEEL BEAMS<br>SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 6 | CUY-14752-0.018 | 1806521 | SINGLE SPAN ROLLED STEEL | 136.58'± | 41º27'20"N 81º39'27"W | 73.25'± | 4 | 6 | SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 7 | CUY-04462-0.159 | 1806645 | SINGLE SPAN ROLLED STEEL | 151.7'± | 41º28'15"N 81º39'35"W | 58.7'± | 3 | 7 | SUBSTRUCTURE CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 8 | CUY-00077-11.711R | N/A | RETAINING WALL | 67.98'± | 41º26'33"N 81º39'03"W | N/A | N/A | N/A | CONCRETE PATCHING AND SEALING |
| 9 | CUY-00077-11.840L | N/A | RETAINING WALL | 95.12'± | 41º26'39"N 81º39'09"W | N/A | N/A | N/A | CONCRETE PATCHING, CRACK REPAIR, AND SEALING |
| 10 | CUY-00077-11.897R | N/A | RETAINING WALL | 411.32'± | 41º26'42"N 81º39'10"W | N/A | N/A | N/A | CONCRETE PATCHING AND SEALING<br>REMOVAL OF FENCE AND INSTALLATION OF VANDAL PROTECTION FENCE |
| 11 | CUY-18394-0.206R | N/A | RETAINING WALL | 804.38'± | 41º27'12"N 81º39'25"W | N/A | N/A | N/A | CONCRETE PATCHING AND SEALING |
| 12 | CUY-18395-0.017R | N/A | RETAINING WALL | 412.86'± | 41º27'22"N 81º39'25"W | N/A | N/A | N/A | CONCRETE PATCHING AND SEALING |
| 13 | CUY-00077-12.720L | N/A | RETAINING WALL | 784'± | 41º27'22"N 81º39'27"W | N/A | N/A | N/A | CONCRETE PATCHING AND SEALING<br>REMOVAL OF BRIDGE RAILING AND INSTALLATION OF VANDAL PROTECTION FENCE |

Preliminary Plans - For Reference Only

SCHEMATIC PLAN

CUY-77-11.21 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:33:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: prateek.nepal@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806378_AECOM\Sheets\105743_SFN_1806378_GB001.dgn

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

DESIGNER PN
REVIEWER MRW 11/20/25
PROJECT ID 105743
SHEET P:2 TOTAL P.24

Preliminary Plans - Not Reference Only

DESIGN SPECIFICATIONS:

THESE STRUCTURES CONFORM TO THE 9TH EDITION OF THE LRFD BRIDGE DESIGN SPECIFICATIONS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA:

CONCRETE CLASS QC2- COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONRETE CLASS QC 1- COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT- MINIMUM YIELD STRENGTH 60 KSI

RIGHT OF WAY:

ALL WORK IS TO BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY OR EASEMENTS OR WITHIN STATE PROPERTY. ALL WORK ON RETAINING WALLS IS TO BE PERFORMED FROM I-77 SIDE OF WALLS.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD. DETAILS SHOWN IN GREY ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY. PERFORM ONLY THE WORK AS INDICATED IN THE STRUCTURE DATA TABLE, BOXED TEXT, AND/OR DESCRIBED IN THE GENERAL NOTES. THE EXISTING STRUCTURE PLANS MAY BE REVIEWED AT THE:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12 OFFICE
5500 TRANSPORTATION BOULEVARD
GARFIELD HEIGHTS, OH 44125

EXISTING PLANS ARE ALSO AVAILABLE THROUGH THE FOLLOWING ODOT WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONTRACTADMIN/CONTRACTS/PAGES/DESIGNFILES.ASPX

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN:

AT ALL LOCATIONS THIS ITEM INCLUDES THE REMOVAL OF TREES AND BRUSH IN ORDER TO GAIN ACCESS TO APPLICABLE AREAS OF THE STRUCTURES TO PERFORM THE SPECIFIED WORK UP TO THE RIGHT OF WAY LINE. ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL IN THE PLANS, THEY SHOULD BE REMOVED AT THE DIRECTION OF THE ENGINEER. PAYEMENT FOR LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK IS INCLUDED FOR PAYMENT AT THE LUMP SUM CONTRACT PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN.

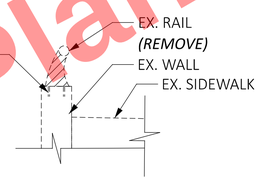
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN DESCRIPTION:

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND BE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING C&MS 501.05.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP OR GREATER IF NOTED IN PLANS. REMOVE CONCRETE TO A ROUGH SURFACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES. THOROUGHLY CLEAN THE JOINT SURFACE BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE. SEAL WITH HMWM AS NOTED IN PLANS.

ITEM 202 - BRIDGE RAILING REMOVED, AS PER PLAN:

AT LOCATION 13 (CUY-00077-12.720L), CONTRACTOR SHALL REMOVE EXISTING METAL RAILING ATTACHED TO THE TOP OF WALL. EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH WITH THE TOP OF CONCRETE. SEE DETAIL BELOW. INCLUDE ALL COSTS FOR THIS REMOVAL AT THE LINEAR FOOT CONTRACT PRICE ITEM 202 BRIDGE RAILING REMOVED, AS PER PLAN.




ITEM 202 - FENCE REMOVED, AS PER PLAN:

AT LOCATION 10 (CUY-00077-11.897R), CONTRACTOR SHALL REMOVE EXISTING FENCE ATTACHED TO THE TOP OF WALL. EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH WITH THE TOP OF CONCRETE. INCLUDE ALL COSTS FOR THIS REMOVAL AT THE PER LINEAR FOOT CONTRACT PRICE FOR ITEM 202 - FENCE REMOVED, AS PER PLAN.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN:

DRILL DOWEL HOLES WHERE SHOWN IN THE PLANS. INSTALL REINFORCING STEEL ACCORDING TO ITEM 510 USING NONSHRINK, NONMETALLIC GROUT, 705.20 AND ROTARY-IMPACT (HAMMER) DRILL. PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR WHILE MAINTAINING A MINIMUM CONCRETE COVER OF 3 INCHES. ALL WORK AND EQUIPMENT REQUIRED FOR LOCATING EXISTING BARS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 510, DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN:

SPECIFIC CRACK REPAIR LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN:

SEAL CONCRETE LOCATIONS AS SPECIFIED IN THE PLANS. BRICK AREAS SHALL NOT BE SEALED. EPOXY-URETHANE SHALL BE FEDERAL COLOR NO. 595B-25630, LIGHT GREY (SEMIGLOSS)

ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN:

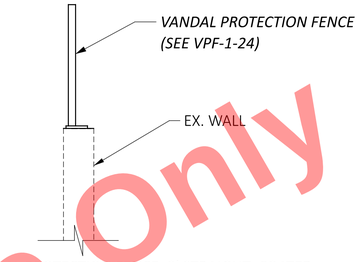
REMOVE EXISTING COATINGS IN LOCATIONS TO RECEIVE SEALING. IF EXISTING UTILITIES ARE LOCATED WITHING THE SPECIFIED REMOVAL LOCATIONS, THE COST FOR REMOVAL AND REINSTALLING THE UTILITIES SHALL BE INCLUDED IN THIS ITEM. CONTRACTOR SHALL ENSURE ANY EXISTING UTILITIES AND OTHER BRIDGE COMPONENTS ARE PROTECTED DURING THE REMOVAL OPERATIONS.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:

SPECIFIC PATCHING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. IF EXISTING UTILITIES ARE LOCATED WITHIN THE SPECIFIED PATCHING AREAS, THE COST FOR REMOVAL AND REINSTALLING THE UTILITIES SHALL BE INCLUDED IN THIS ITEM. PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIALS, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED STEEL REINFORCEMENT. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING. CONTRACTOR SHALL ENSURE ANY EXISTING UTILITIES AND OTHER BRIDGE COMPONENTS ARE PROTECTED DURING THE PATCHING OPERATIONS.

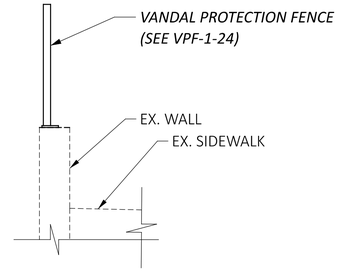
ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN:

AT LOCATION 10 (CUY-00077-11.897R), CONTRACTOR SHALL INSTALL NEW 6' STRAIGHT VANDAL PROTECTION FENCE PER VPF-1-24 ALONG THE LENGTH OF THE WALL. SEE DETAIL BELOW. THE PVC COATING SHALL BE BLACK IN COLOR. PRIOR TO ORDERING FENCE MATERIALS, FIELD MEASURE THE LOCATIONS OF EXISTING ANCHOR BOLTS AND RETAINING WALL JOINTS AND DETERMINE A LAYOUT OF PROPOSED FENCE POST LOCATIONS THAT AVOIDS INTERFERENCE. GENERALLY, THE PROPOSED LAYOUT SHALL USE AS MANY EQUAL POST SPACINGS AS PRACTICABLE, NOT EXCEEDING THE MAXIMUM POST SPACINGS STATED IN THE STANDARD DRAWING. PREPARE AND SUBMIT A DRAWING OF THE LAYOUT FOR REVIEW AND APPROVAL BY THE ENGINEER.




ITEM 607 - VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC, AS PER PLAN:

AT LOCATION 13 (CUY-00077-12.720L), CONTRACTOR SHALL INSTALL 8' STRAIGHT VANDAL PROTECTION FENCE PER VPF-1-24 ALONG THE LENGTH OF THE WALL. SEE DETAIL BELOW. THE PVC COATING SHALL BE BLACK IN COLOR. PRIOR TO ORDERING FENCE MATERIALS, FIELD MEASURE THE LOCATIONS OF EXISTING ANCHOR BOLTS AND RETAINING WALL JOINTS AND DETERMINE A LAYOUT OF PROPOSED FENCE POST LOCATIONS THAT AVOIDS INTERFERENCE. GENERALLY, THE PROPOSED LAYOUT SHALL USE AS MANY EQUAL POST SPACINGS AS PRACTICABLE, NOT EXCEEDING THE MAXIMUM POST SPACINGS STATED IN THE STANDARD DRAWING. PREPARE AND SUBMIT A DRAWING OF THE LAYOUT FOR REVIEW AND APPROVAL BY THE ENGINEER.




ITEM SPECIAL - STRUCTURE, MISC.: REMOVE AND REPLACE MAN DOOR:

AT LOCATION 1 (BRIDGE CUY-14684-0.350). THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO REMOVE AND REPLACE EXISTING ACCESS DOORS AND DOOR FRAMES IN ABUTMENTS. REPLACEMENT DOORS SHALL BE COMMERCIAL GRADE FLUSH MOUNT DOORS AS MANUFACTURED BY STEELCRAFT OR AN APPROVED EQUAL AND SHALL HAVE THE FOLLOWING FEATURES:

- MINIMUM 14 GAGE DOOR, 12 GAGE FRAME, A60 GALVANIZED OR BETTER
- DOOR SHALL BE STEEL STIFFENED WITH REINFORCEMENT AT THE LOCK LOCATIONS
- MINIMUM OF 3 SAFETY STUDS ON HINGE SIDE
- KNOB DOOR HANDLE
- TAMPER PROOF OR NON-REMOVABLE HINGES
- DOORS PREPPED FOR INSTALLATION INTO CONCRETE
- DOORS SHOULD BE OUTSWING
- THREE LOCKSETS, ALL KEYED ALIKE

DOOR FRAMES SHALL BE ANCHORED INTO THE EXISTING CONCRETE AS RECOMMENDED BY THE MANUFACTURER. EXISTING DOORS ARE APPROXIMATELY 36" X 72". CONTRACTOR SHALL FIELD MEASURE DOOR OPENINGS PRIOR TO ORDERING MATERIALS. INCLUDE ALL COSTS FOR LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK IN THE CONTRACT PRICE FOR SPECIAL- STRUCTURE, MISC: REMOVE AND REPLACE DOOR.

GENERAL NOTES

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

DESIGNER PN
REVIEWER MRW 11/20/25
PROJECT ID 105743
SHEET P.3 TOTAL P.24



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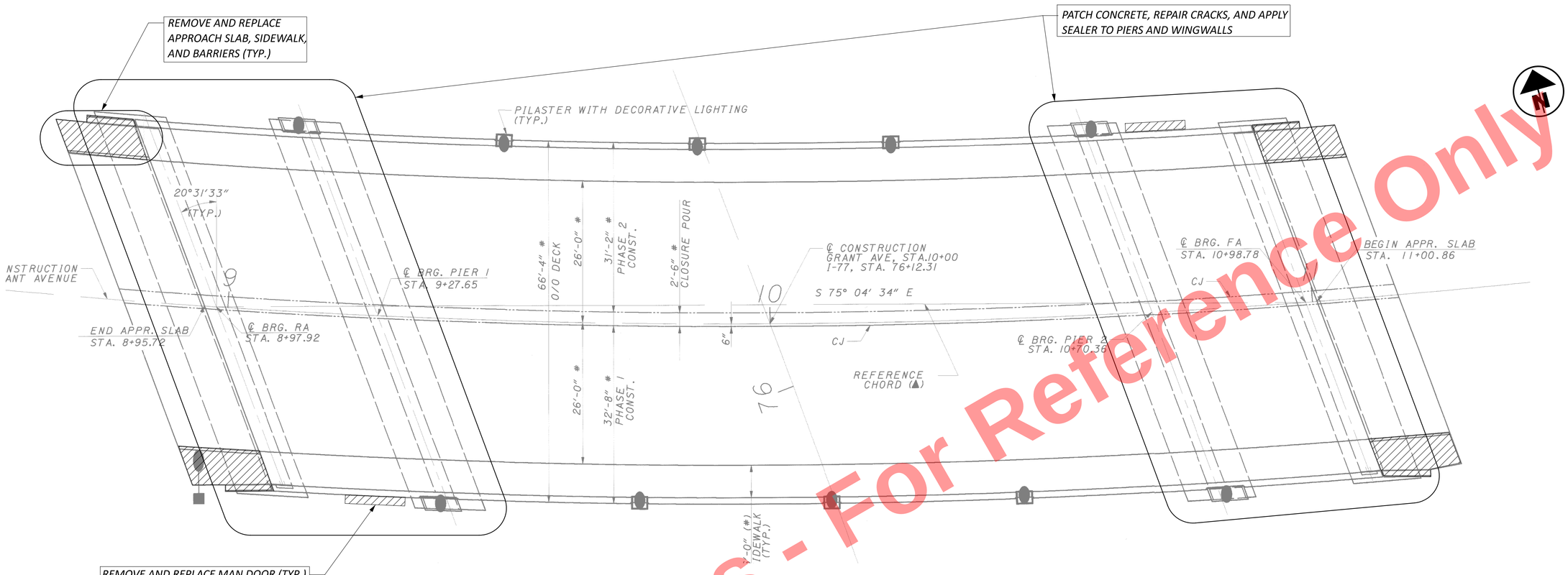


Preliminary Plans - For Reference Only

*NOTES:*

1. *PAINT STEEL PER CM&S 514 USING OZEU. PAINT COLOR SHALL BE FEDERAL COLOR NO. 595B-16440, GREY (GLOSS).*
2. *IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.*

*LEGEND:*

*LIMITS OF REMOVAL*

# GENERAL PLAN - LOCATION 1
# BRIDGE NO. CUY-14684-0.350
# GRANT AVE. OVER I.R. 77

| | |
|---|---|
| SFN | 1806378 |
| DESIGN AGENCY | AECOM<br>564 White Pond Drive<br>Akron, OH 44320<br>(330) 836-9111<br>www.aecom.com |
| DESIGNER | PN |
| CHECKER | TMB |
| REVIEWER | MRW 11/20/25 |
| PROJECT ID | 105743 |
| SUBSET | 1 |
| TOTAL | 6 |
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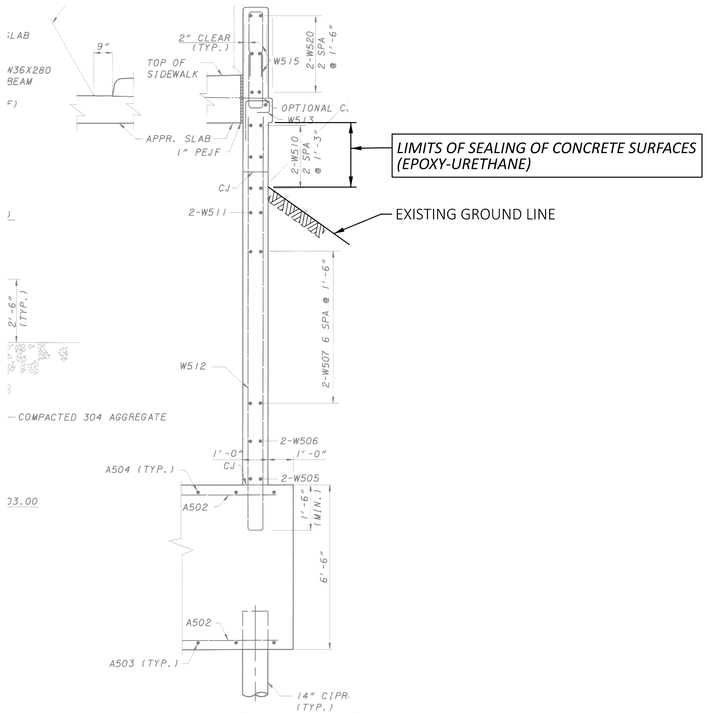
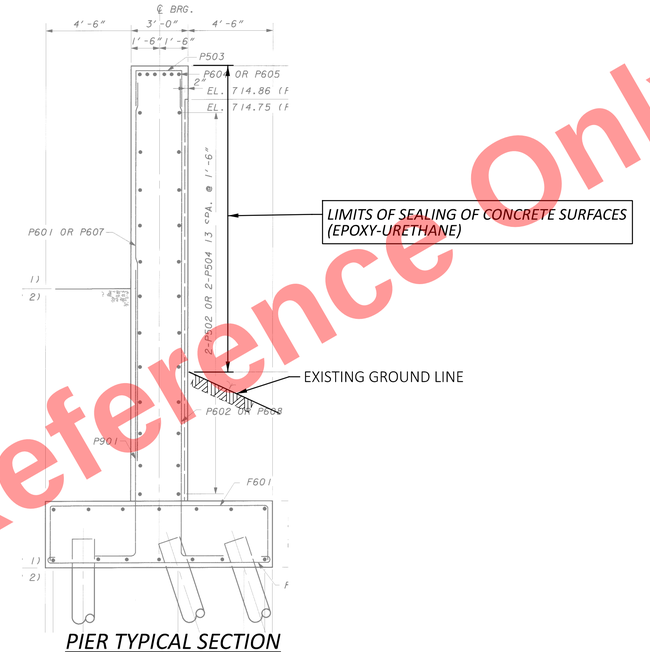
| TOTAL | P.24 |




WINGWALL TYPICAL SECTION




PIER TYPICAL SECTION

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: / CHECKED BY: |
|---|---|---|---|---|---|
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
| 201 | 11001 | #REF! | LS | CLEARING AND GRUBBING, AS PER PLAN | P.3 |
| 202 | 11201 | #REF! | LS | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | P.3 |
| 509 | 10000 | #REF! | LB | EPOXY COATED STEEL REINFORCEMENT | |
| 510 | 10001 | #REF! | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN | P.3 |
| 511 | 34450 | #REF! | CY | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET) | |
| 511 | 51512 | #REF! | CY | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK | |
| 512 | 10050 | #REF! | SY | SEALING OF CONCRETE SURFACES (NON-EPOXY) | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| 516 | 10010 | #REF! | FT | ARMORLESS PREFORMED JOINT SEAL | |
| 516 | 13600 | #REF! | SF | 1" PREFORMED EXPANSION JOINT FILLER | |
| 516 | 12310 | #REF! | LB | SIDEWALK COVER PLATE | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |
| SPECIAL | 53000400 | #REF! | EACH | SPECIAL - STRUCTURES, MISC.: REMOVE AND REPLACE MAN DOOR | |

NOTES:

1. IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.

Preliminary Plans - For Reference Only

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 1
BRIDGE NO. CUY-14684-0.350
GRANT AVE. OVER I.R. 77

SFN 1806378

DESIGN AGENCY
AECOM
564 White Pond Drive
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| DESIGNER | CHECKER |
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| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 2 | 6 |

| SHEET | TOTAL |
|---|---|
| P.5 | P.24 |

CUY-77-11.21 PART 2

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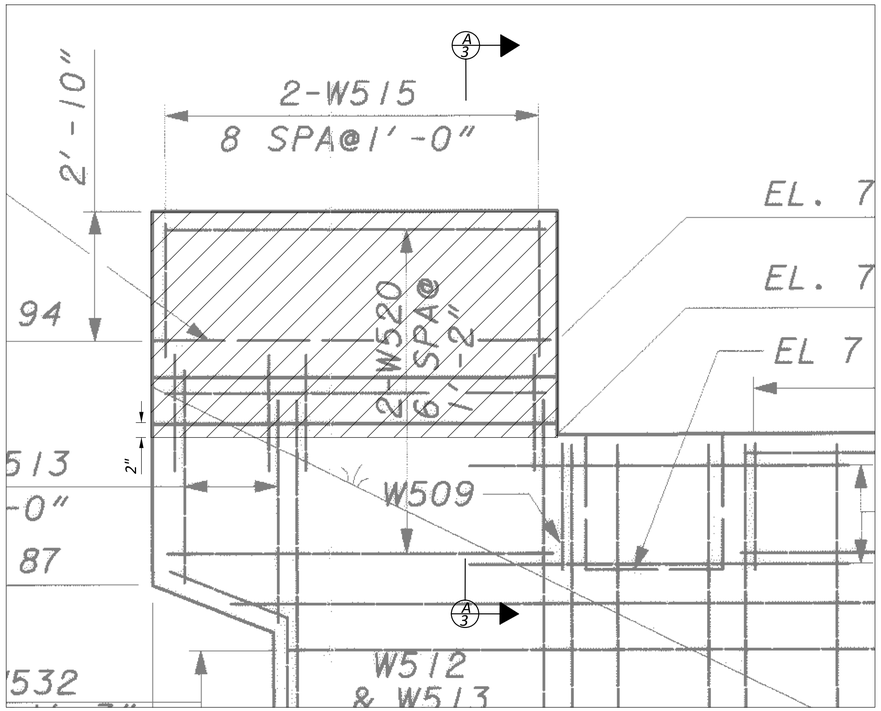
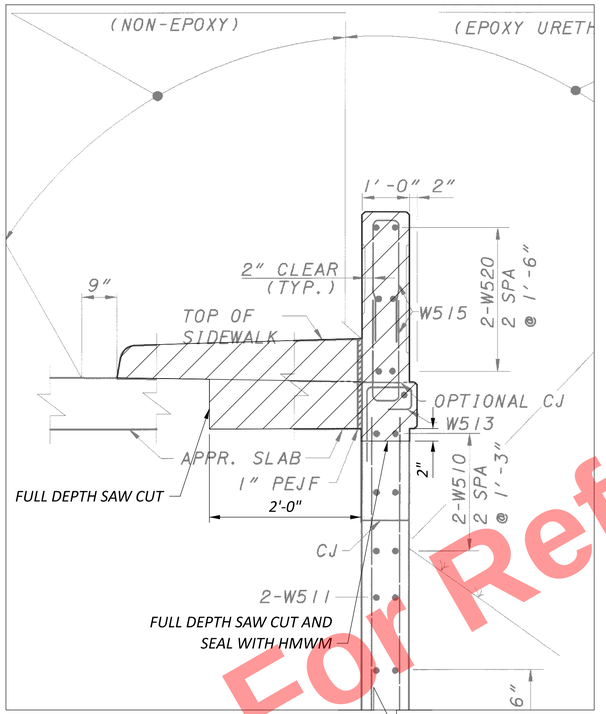
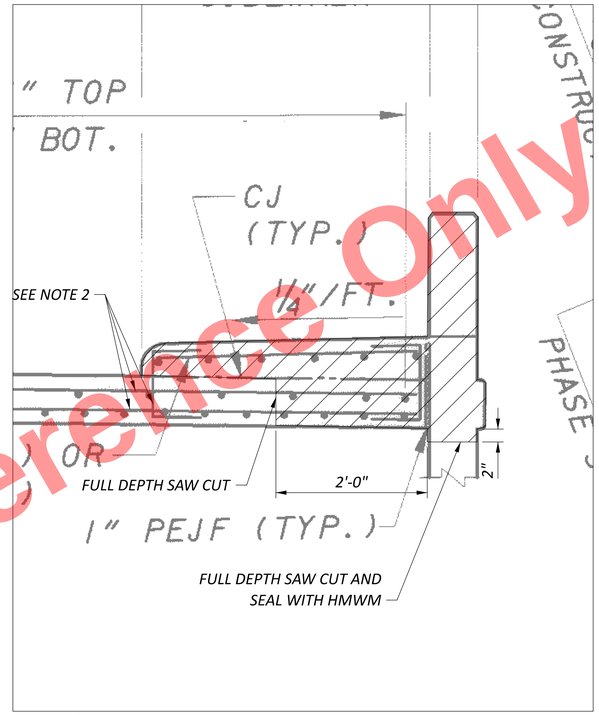


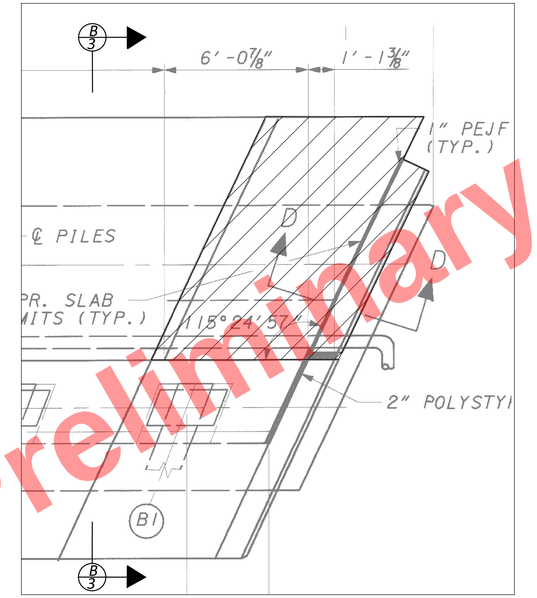

EXISTING WINGWALL ELAVATION
(RIGHT REAR ABUTMENT SHOWN, OTHERS SIMILAR)



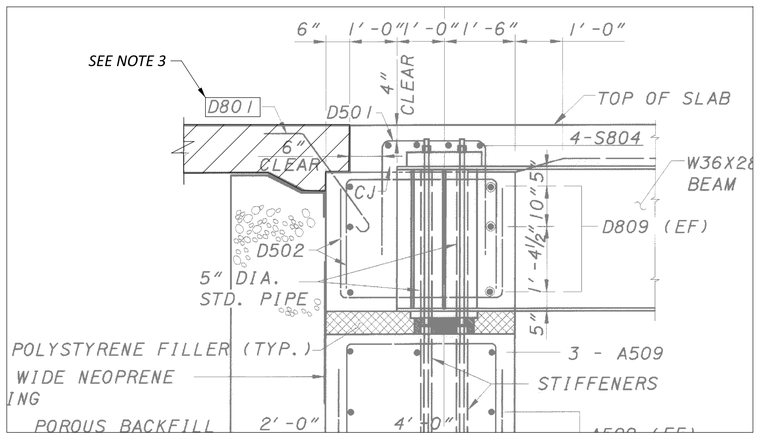

A/3 SECTION THROUGH WINGWALL




A/3 SECTION THROUGH SIDEWALK AND APPROACH SLAB




EXISTING ABUTMENT PARTIAL PLAN
(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)




B/3 SECTION

NOTES:
1. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.
2. EXISTING REINFORCING EXTENDING FROM THE APPROACH SLAB SHALL BE CUT AT THE REMOVAL LINE.
3. EXISTING D801 BARS EXTENDING FROM THE END DIAPHRAGMS SHALL BE SALVAGED FOR RE-USE.

LEGEND

LIMITS OF REMOVAL

Preliminary Plans - For Reference Only

REMOVAL DETAILS - LOCATION 1
BRIDGE NO. CUY-14684-0.350
GRANT AVE. OVER I.R. 77

SFN 1806378
DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com
DESIGNER PN | CHECKER TMB
REVIEWER MRW 11/20/25
PROJECT ID 105743
SUBSET 3 | TOTAL 6
SHEET P.6 | TOTAL P.24

CUY-77-11.21 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:35:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: prateek.nepal@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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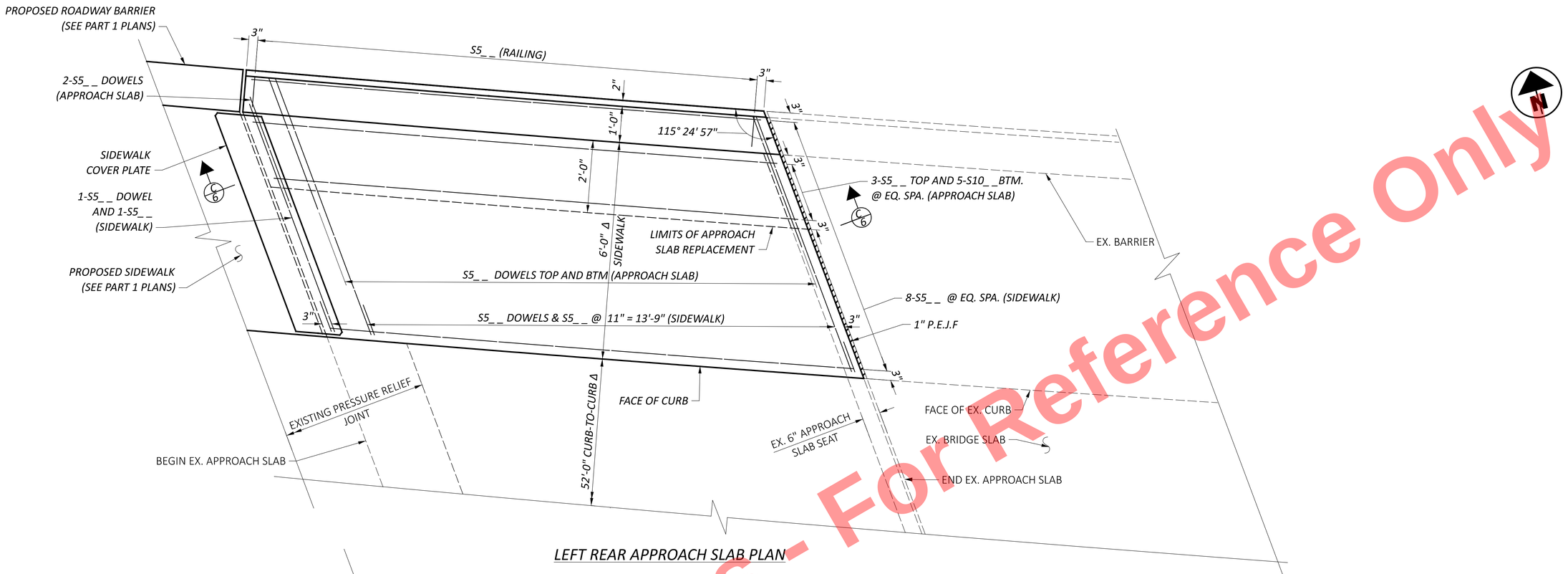
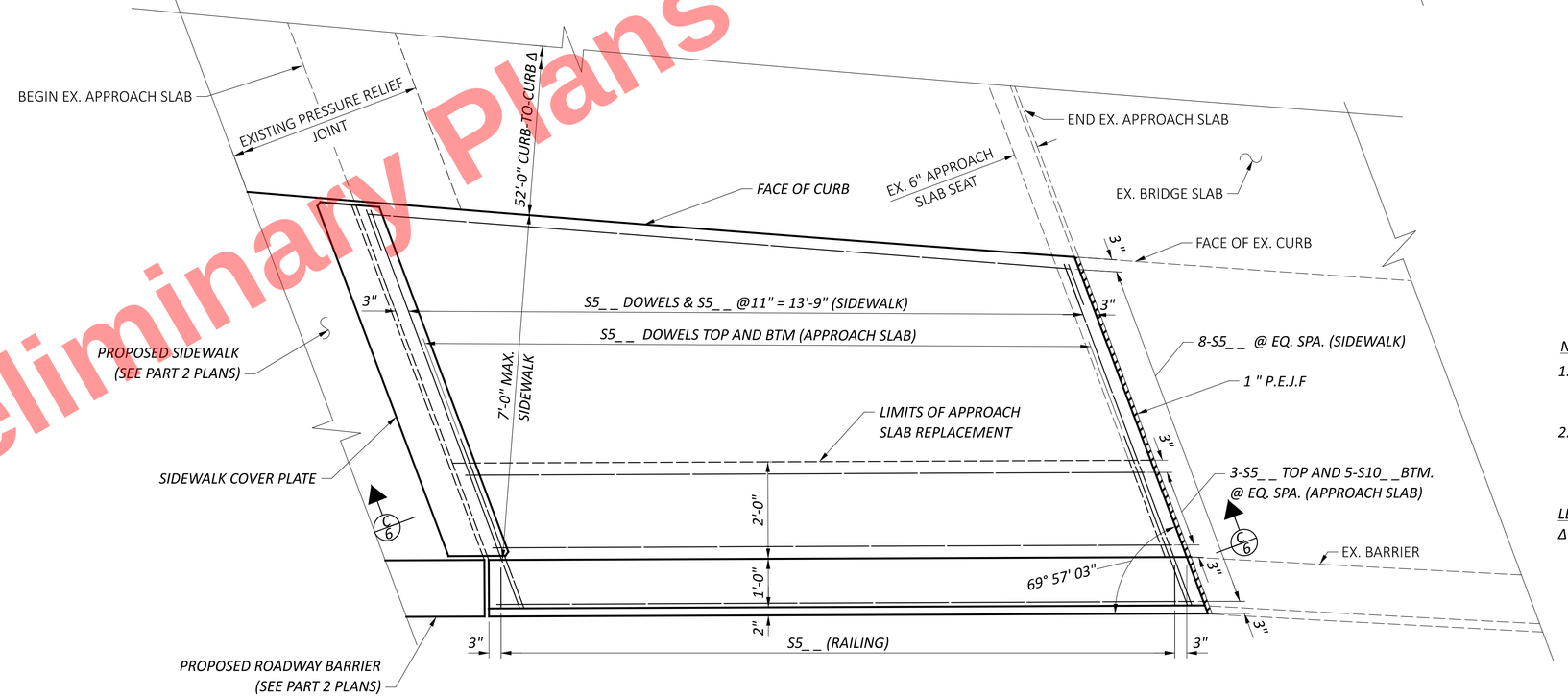



LEFT REAR APPROACH SLAB PLAN




RIGHT REAR APPROACH SLAB PLAN

NOTES:

1. FOR ADDITIONAL SIDEWALK COVER PLATE DETAILS AND NOTES, SEE STANDARD DRAWING EXJ-6-17.
2. FOR ADDITIONAL GEOMETRY INFORMATION FROM EXISTING PLANS, SEE SHEET 1/6.

LEGEND:

Δ - RADIAL DIMENSIONS

Preliminary Plans - For Reference Only

APPROACH SLAB DETAILS - LOCATION 1
BRIDGE NO. CUY-14684-0.350
GRANT AVE. OVER I.R. 77

SFN 1806378

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
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www.aecom.com

| DESIGNER | CHECKER |
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| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 4 | 6 |

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|---|---|
| P.7 | P.24 |

CUY-77-11.21 PART 2

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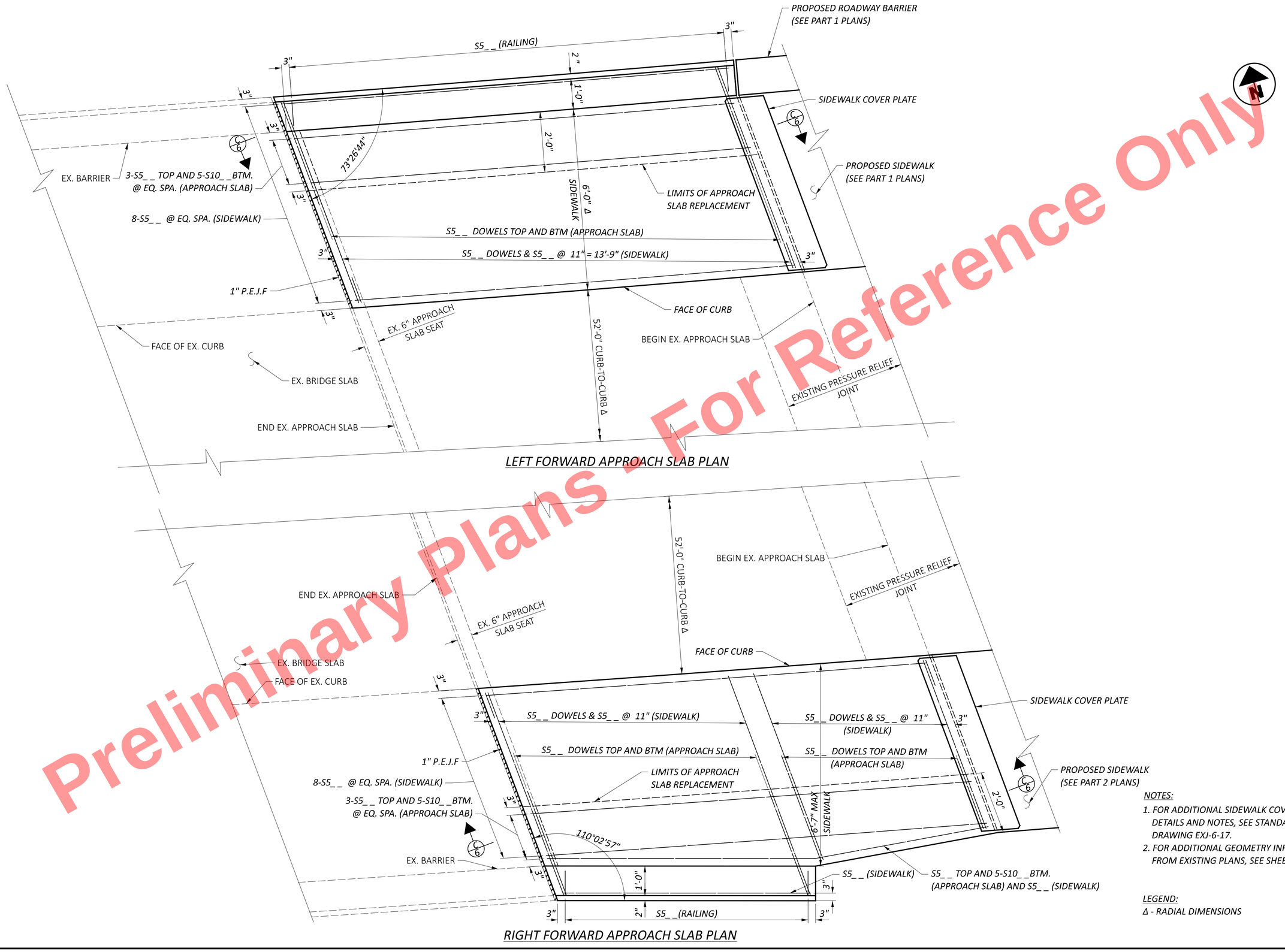


NOTES:

1. FOR ADDITIONAL SIDEWALK COVER PLATE DETAILS AND NOTES, SEE STANDARD DRAWING EXJ-6-17.
2. FOR ADDITIONAL GEOMETRY INFORMATION FROM EXISTING PLANS, SEE SHEET 1 / 6.

LEGEND:

Δ - RADIAL DIMENSIONS

Preliminary Plans - For Reference Only

APPROACH SLAB DETAILS - LOCATION 1
BRIDGE NO. CUY-14684-0.350
GRANT AVE. OVER I.R. 77

| | |
|---|---|
| SFN | 1806378 |
| DESIGN AGENCY | AECOM, 564 White Pond Drive, Akron, OH 44320, (330) 836-9111, www.aecom.com |
| DESIGNER | PN |
| CHECKER | TMB |
| REVIEWER | MRW 11/20/25 |
| PROJECT ID | 105743 |
| SUBSET | 5 |
| TOTAL | 6 |
| SHEET | P.8 |
| TOTAL | P.24 |

CUY-77-11.21 PART 2

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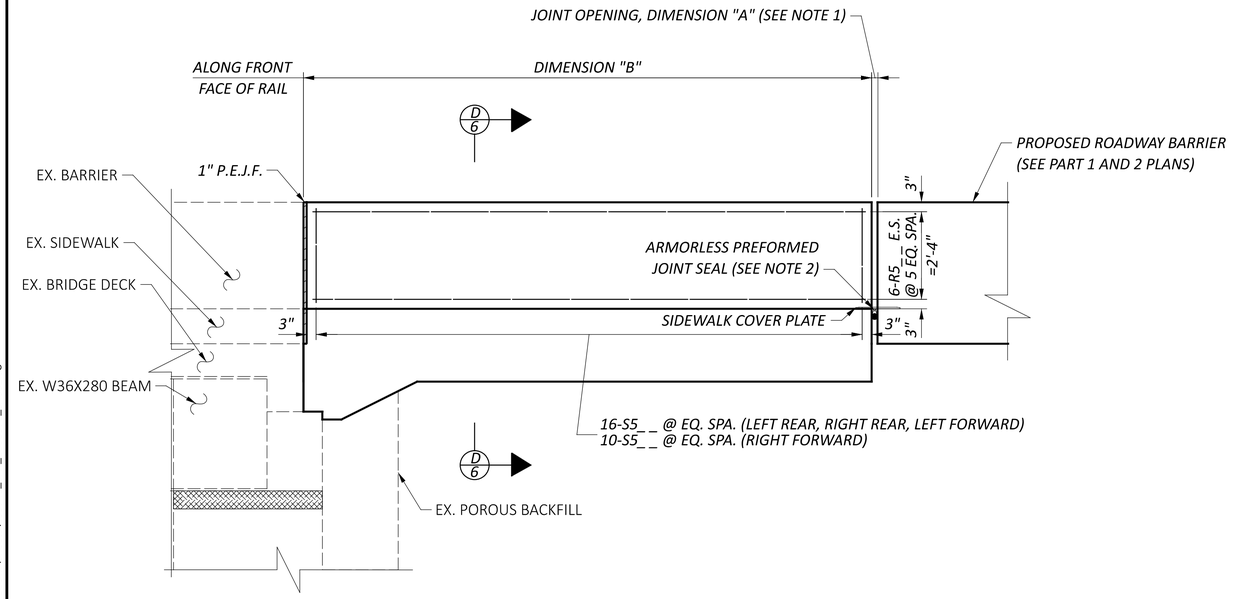
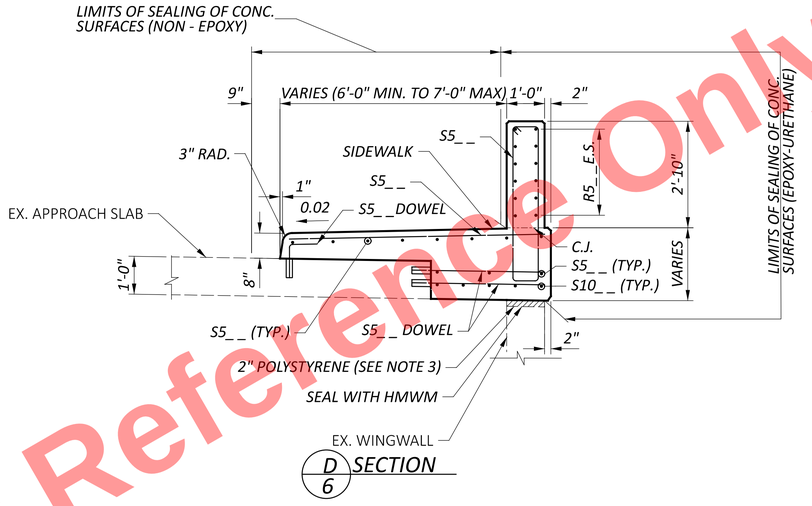
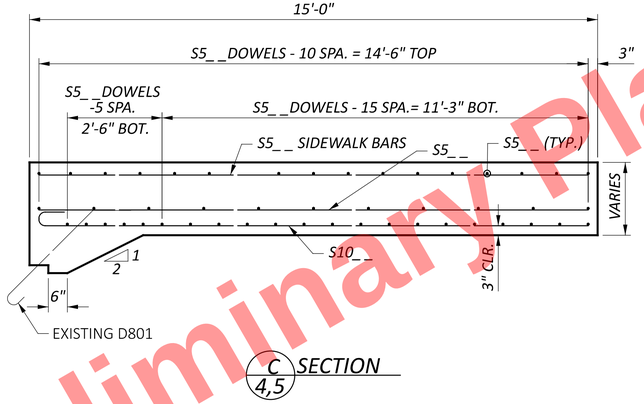



## TYPICAL APPROACH SLAB BARRIER ELEVATION

*(EXISTING WINGWALL NOT SHOWN)*




D 6 SECTION




C 4,5 SECTION

| LOCATION | DIMENSION "B" (SEE NOTE 5) |
|---|---|
| LEFT REAR | 15'-0" |
| RIGHT REAR | 14'- 4" |
| LEFT FORWARD | 15'-0" |
| RIGHT FORWARD | 9"-0" |

*NOTES:*

1. *FOR DIMENSION "A" , SEE STANDARD DRAWING AS-2-15, SHEET 7 14.*
2. *AT CURB LINE, TURN DOWN ARMORLESS PREFORMED JOINT SEAL TO INTERSECT EXISTING PRESSURE RELIEF JOINT. AT BARRIER LINE, PROVIDE 6" UPTURN. FOR ADDITIONAL ARMORLESS PREFORMED JOINT SEAL NOTES, SEE STANDARD DRAWING AS-2-15.*
3. *POLYSTYRENE SHALL BE INCLUDED WITH THE SIDEWALK CONCRETE FOR PAYMENT.*
4. *DOWEL HOLES SHALL BE INSTALLED PER ITEM 510. FILL HOLES WITH NON SHRINK NON METALLIC GROUT. THE EMBEDMENT DEPTH SHALL BE PER MANUFACTURER'S RECOMMENDATION FOR DEVELOPOING THE FULL TENSILE STRENGTH OF THE DOWEL INTO 4500 PSI CONCRETE. FOR PLAN PURPOSES , THE EMBEDMENT IS TAKEN AS 6" FOR #5 DOWELS.*
5. *FOR DIMENSIONS NOT SHOWN, CONSTRUCT TO FIT DIMENSIONS OF EXISTING BRIDGE. DIMENSIONS SHOWN ARE BASED ON THE EXISTING BRIDGE DRAWINGS AND MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. AT ALL LOCATIONS EXCEPT THE RIGHT FORWARD, THE PROJECT INTENT IS TO EXTEND THE APPROACH SLAB RAILING TO THE END OF THE APPROACH SLAB. AT THE RIGHT FORWARD, THE PROJECT INTENT IS TO MATCH THE END OF THE EXISTING RAILING.*

Preliminary Plans - For Reference Only

CUY-77-11.21 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/20/2025 TIME: 8:37:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: prateek.nepal@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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APPROACH SLAB BARRIER DETAILS - LOCATION 1
BRIDGE NO. CUY-14684-0.350
GRANT AVE. OVER I.R. 77

SFN 1806378

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 6 | 6 |

| SHEET | TOTAL |
|---|---|
| P.9 | P.24 |

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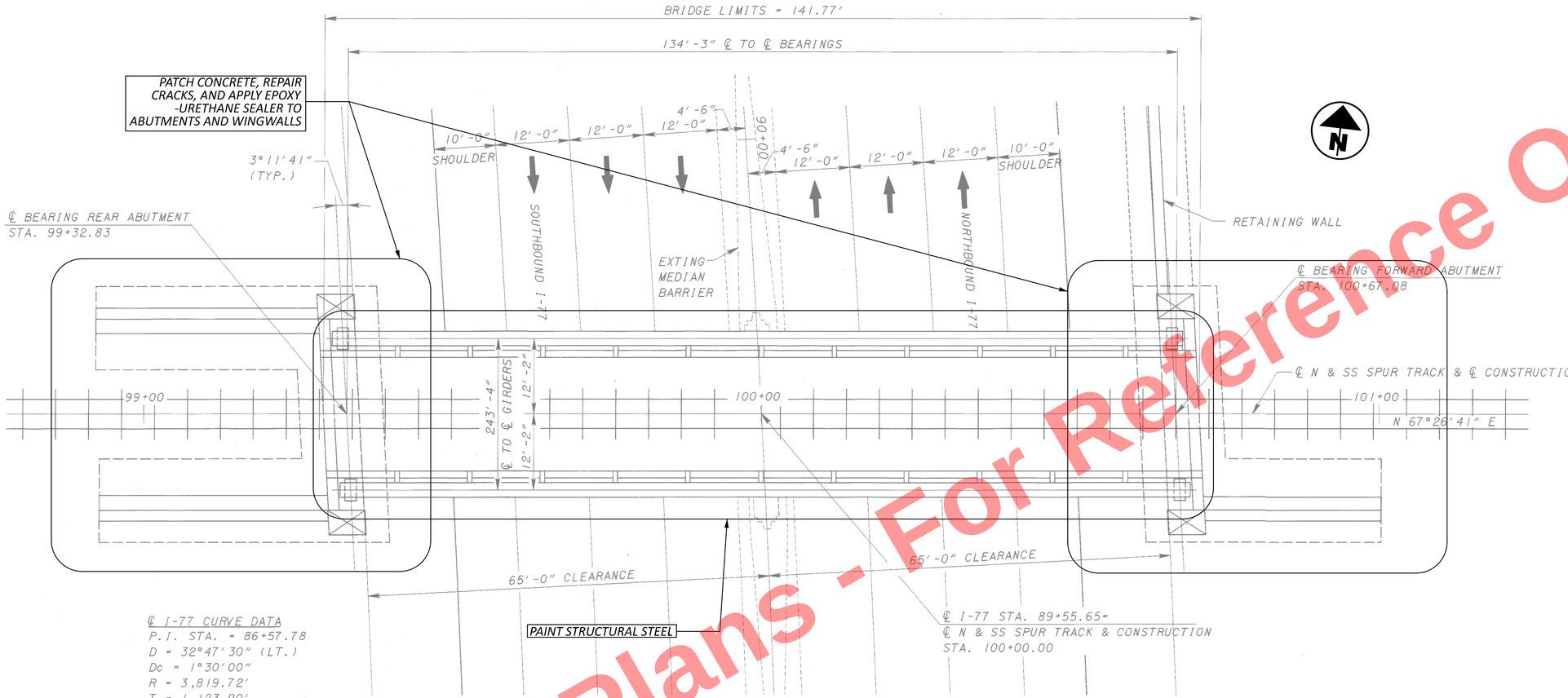
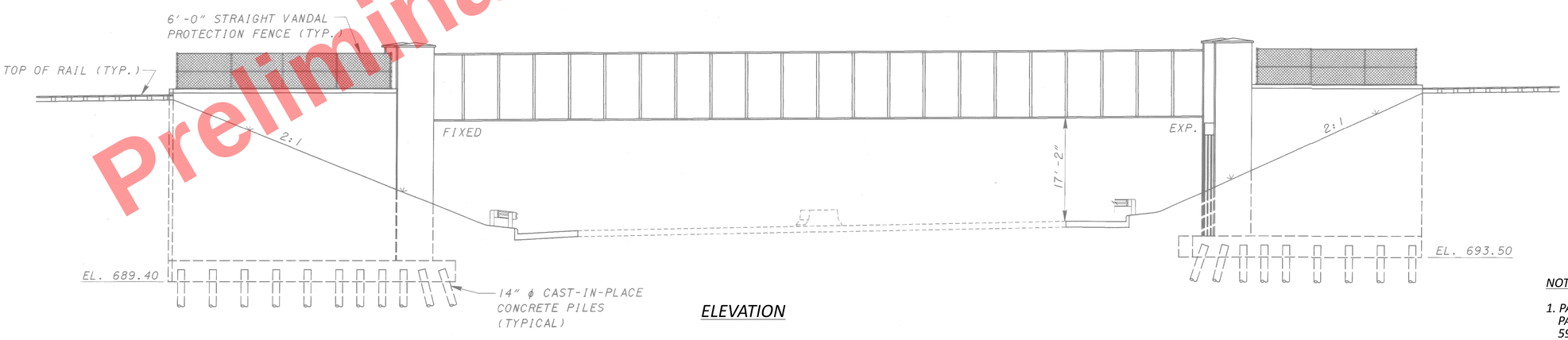
CUY-77-11.21 PART 2




PLAN




ELEVATION

NOTES:

1. PAINT STEEL PER CM&S 514 USING OZEU. PAINT COLOR SHALL BE FEDERAL COLOR NO. 595B-16440, GREY (GLOSS).
2. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.

Preliminary Plans - For Reference Only

GENERAL PLAN - LOCATION 2
BRIDGE NO. CUY-00077-11.690
OMNITRAX OVER I.R. 77

SFN 1806408

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

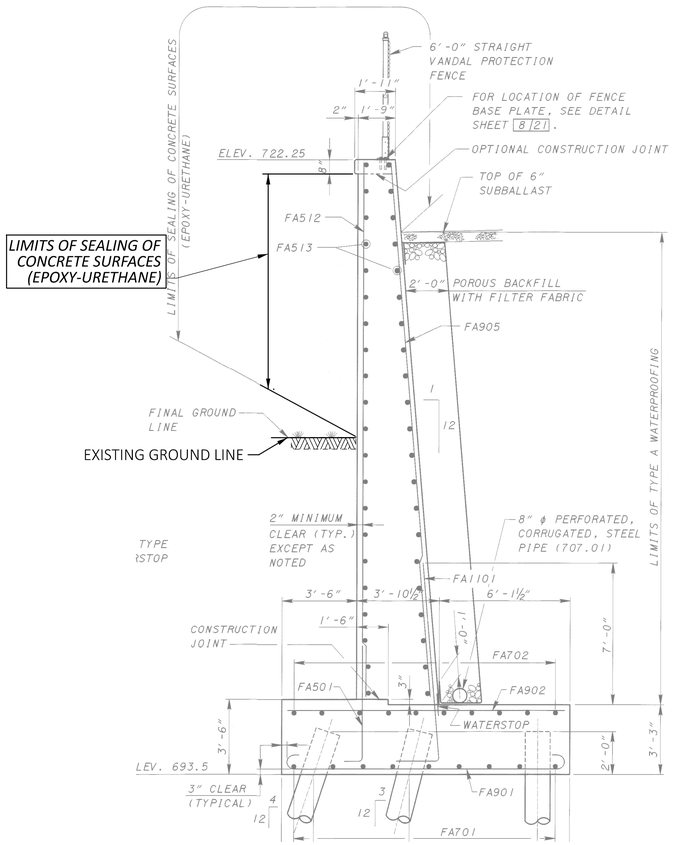
| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

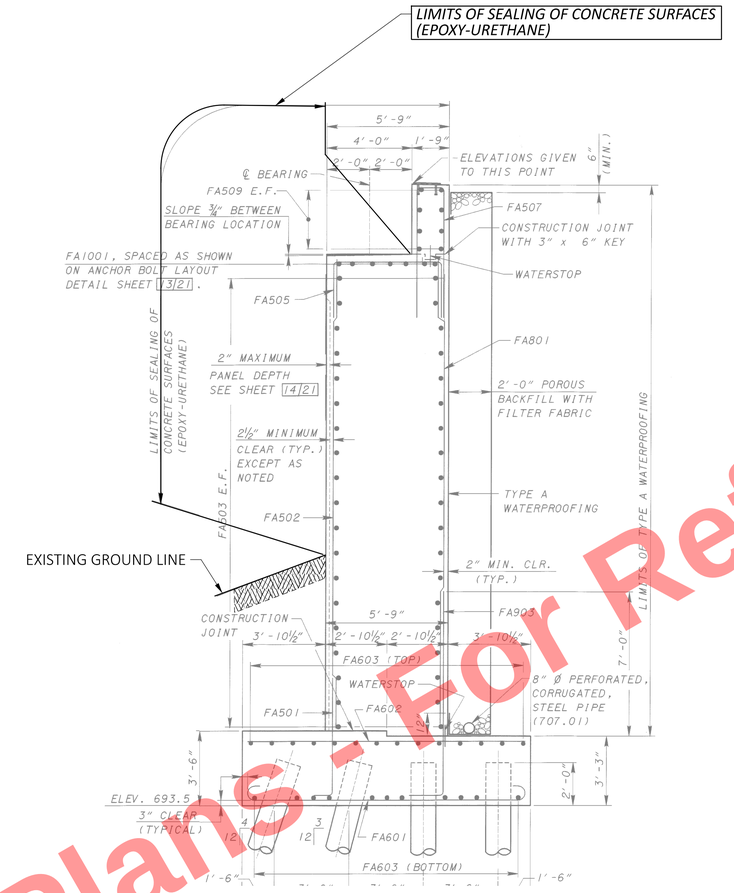
PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 3 |

| SHEET | TOTAL |
|---|---|
| P.10 | P.24 |




WINGWALL TYPICAL SECTION




ABUTMENT TYPICAL SECTION

*NOTES:*

1. IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: |
|---|---|---|---|---|---|
| | | | | | CHECKED BY: |
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
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| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 514 | 00050 | #REF! | SF | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL | |
| 514 | 00056 | #REF! | SF | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT | |
| 514 | 00060 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT | |
| 514 | 00066 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT | |
| 514 | 00504 | #REF! | MNHR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL | |
| 514 | 10000 | #REF! | EACH | FINAL INSPECTION REPAIR | |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

Preliminary Plans - Not For Reference Only

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 2
BRIDGE NO. CUY-00077-11.690
OMNITRAX OVER I.R. 77

SFN 1806408

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 2 | 3 |

| SHEET | TOTAL |
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| P.11 | P.24 |

CUY-77-11.21 PART 2

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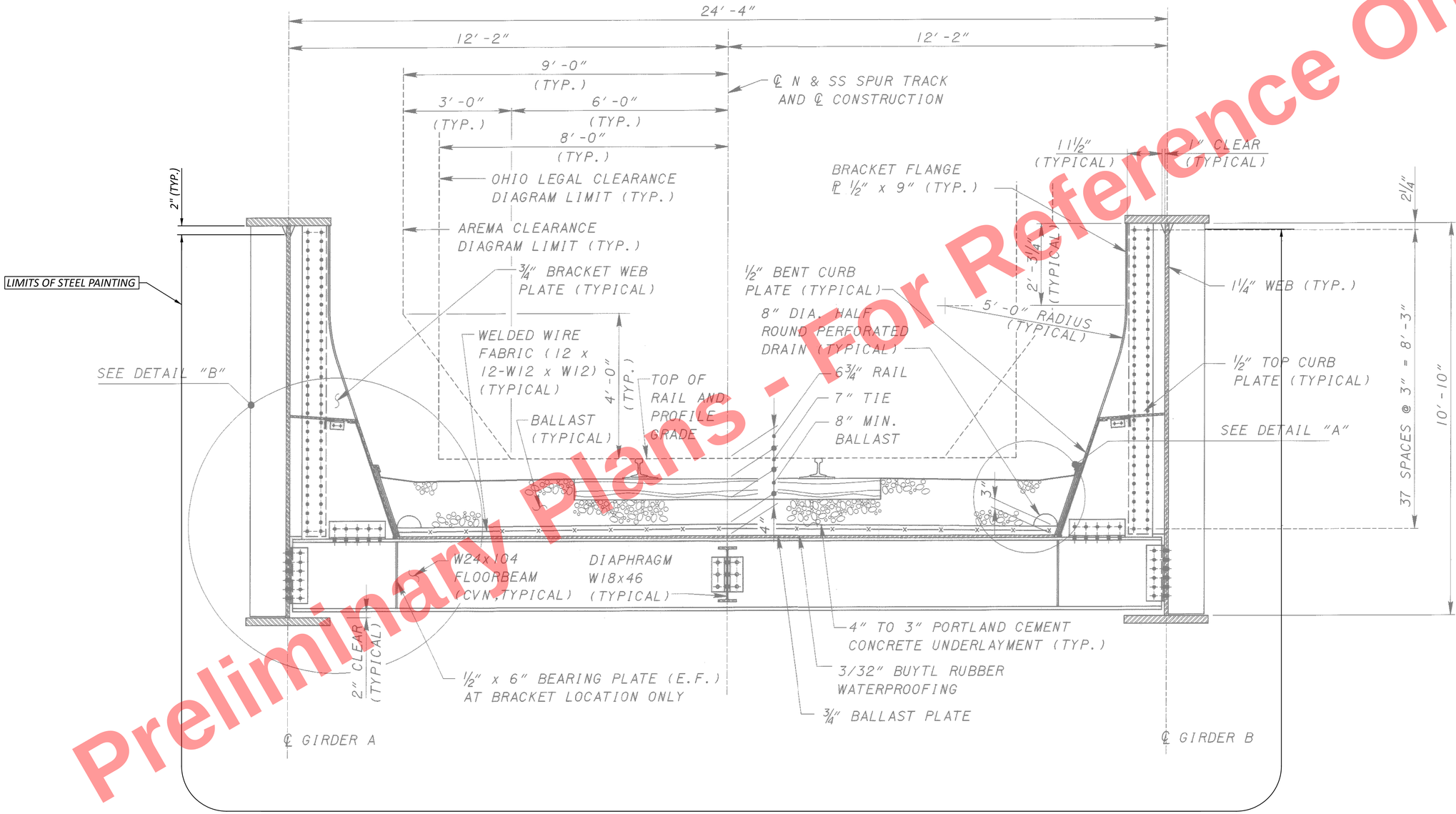


Preliminary Plans - For Reference Only

*TRANSVERSE SECTION*

*NOTES:*

*1. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.*

TRANSVERSE SECTION - LOCATION 2
BRIDGE NO. CUY-00077-11.690
OMNITRAX OVER I.R. 77

SFN 1806408

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
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| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 3 | 3 |

| SHEET | TOTAL |
|---|---|
| P.12 | P.24 |

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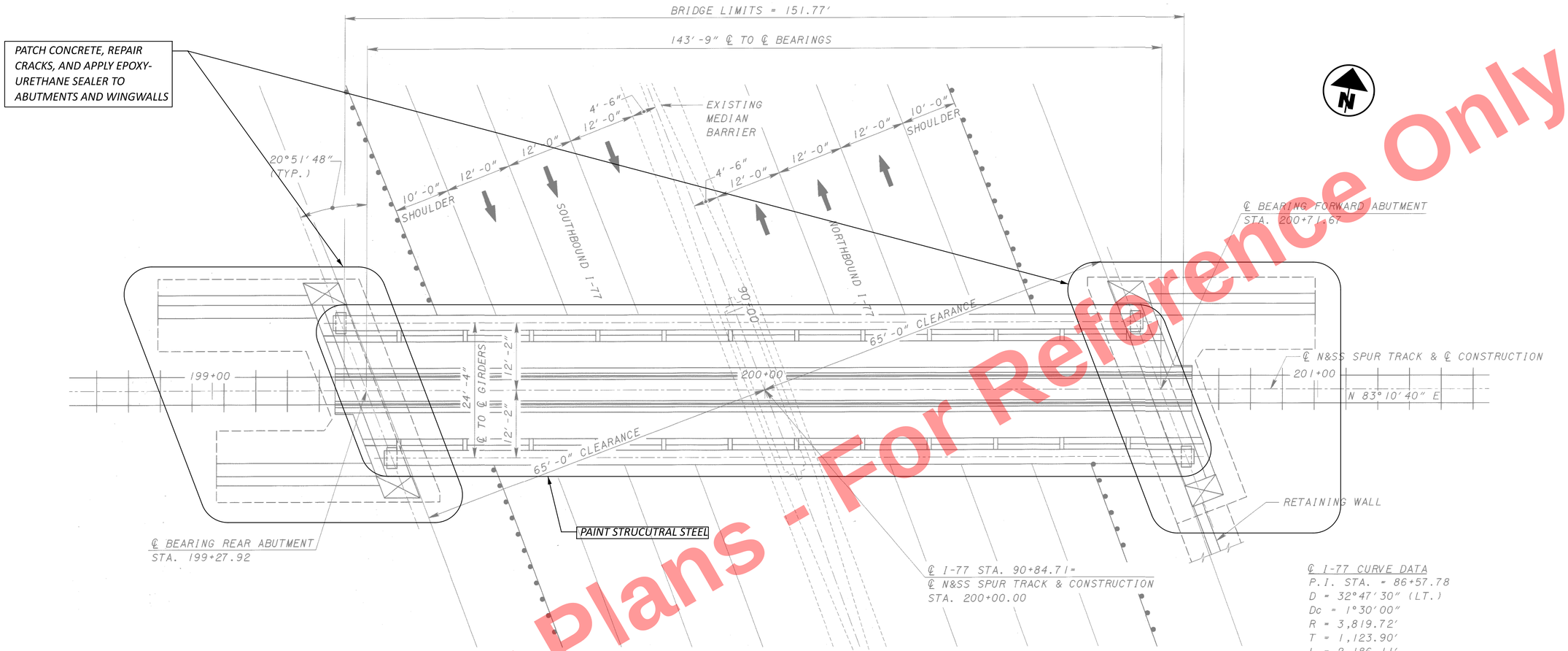
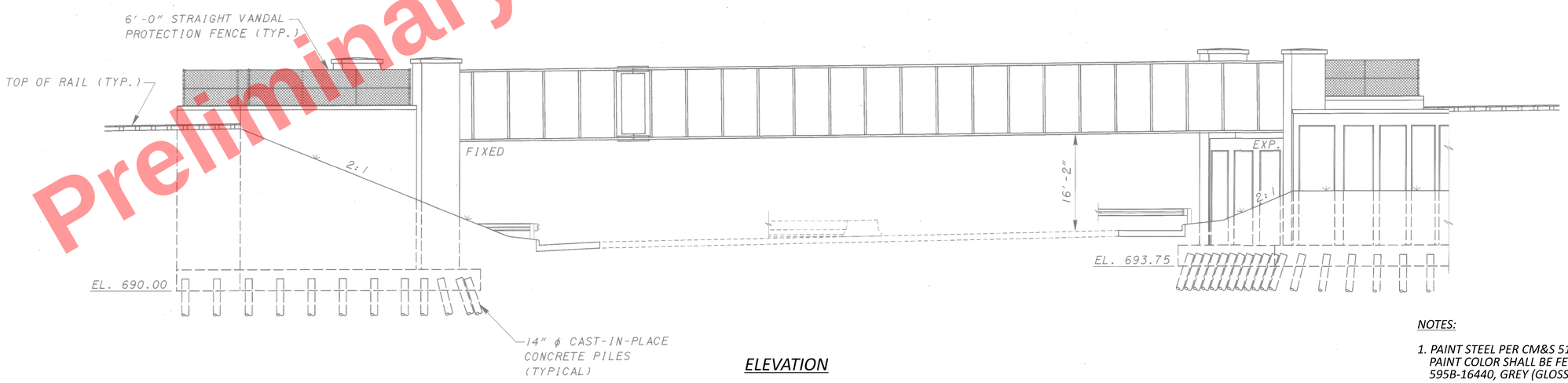
CUY-77-11.21 PART 2




PLAN




ELEVATION

Preliminary Plans - For Reference Only

NOTES:

1. PAINT STEEL PER CM&S 514 USING OZEU. PAINT COLOR SHALL BE FEDERAL COLOR NO. 595B-16440, GREY (GLOSS).
2. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.

GENERAL PLAN - LOCATION 3
BRIDGE NO. CUY-00077-11.710
OMNITRAX OVER I.R. 77

SFN 1806440

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 3 |

| SHEET | TOTAL |
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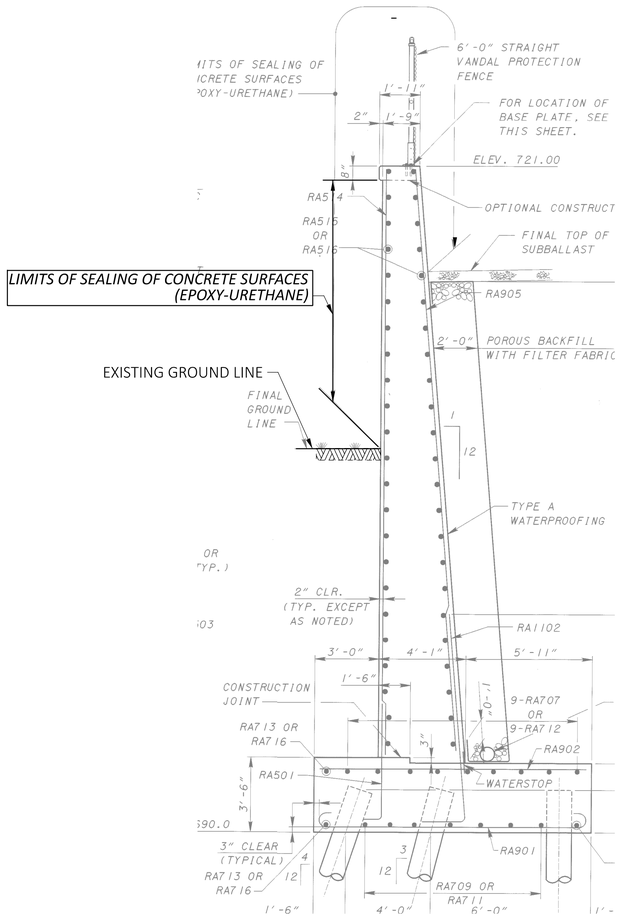
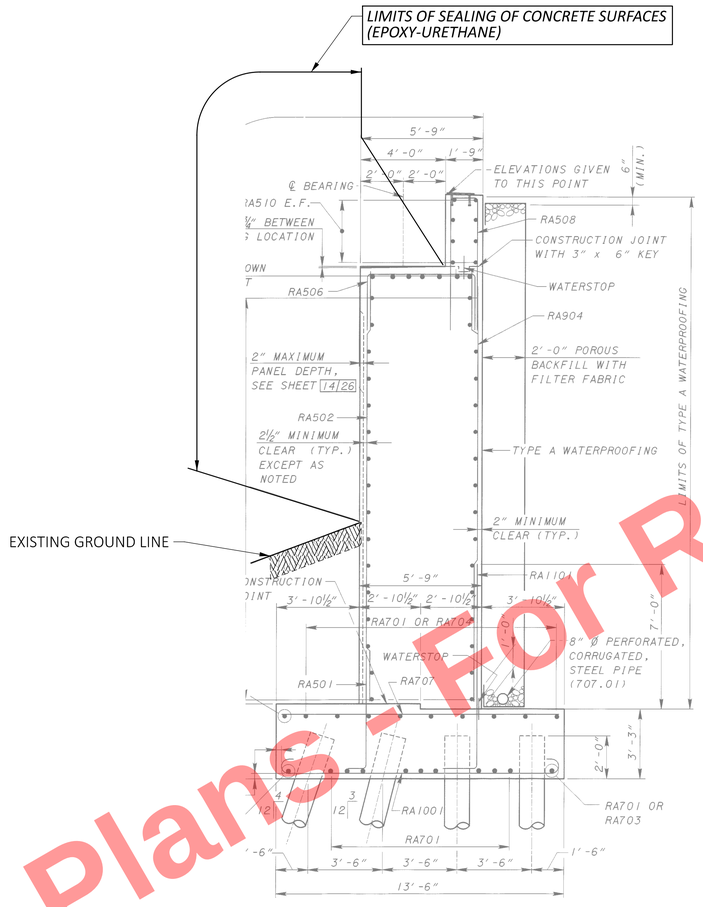
| P.13 | P.24 |




WINGWALL TYPICAL SECTION




ABUTMENT TYPICAL SECTION

**NOTES:**

1. IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: / CHECKED BY: |
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| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
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| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 514 | 00050 | #REF! | SF | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL | |
| 514 | 00056 | #REF! | SF | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT | |
| 514 | 00060 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT | |
| 514 | 00066 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT | |
| 514 | 00504 | #REF! | MNHR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL | |
| 514 | 10000 | #REF! | EACH | FINAL INSPECTION REPAIR | |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

Preliminary Plans - For Reference Only

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 3
BRIDGE NO. CUY-00077-11.710
OMNITRAX OVER I.R. 77

SFN 1806440

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 2 | 3 |

| SHEET | TOTAL |
|---|---|
| P.14 | P.24 |

CUY-77-11.21 PART 2

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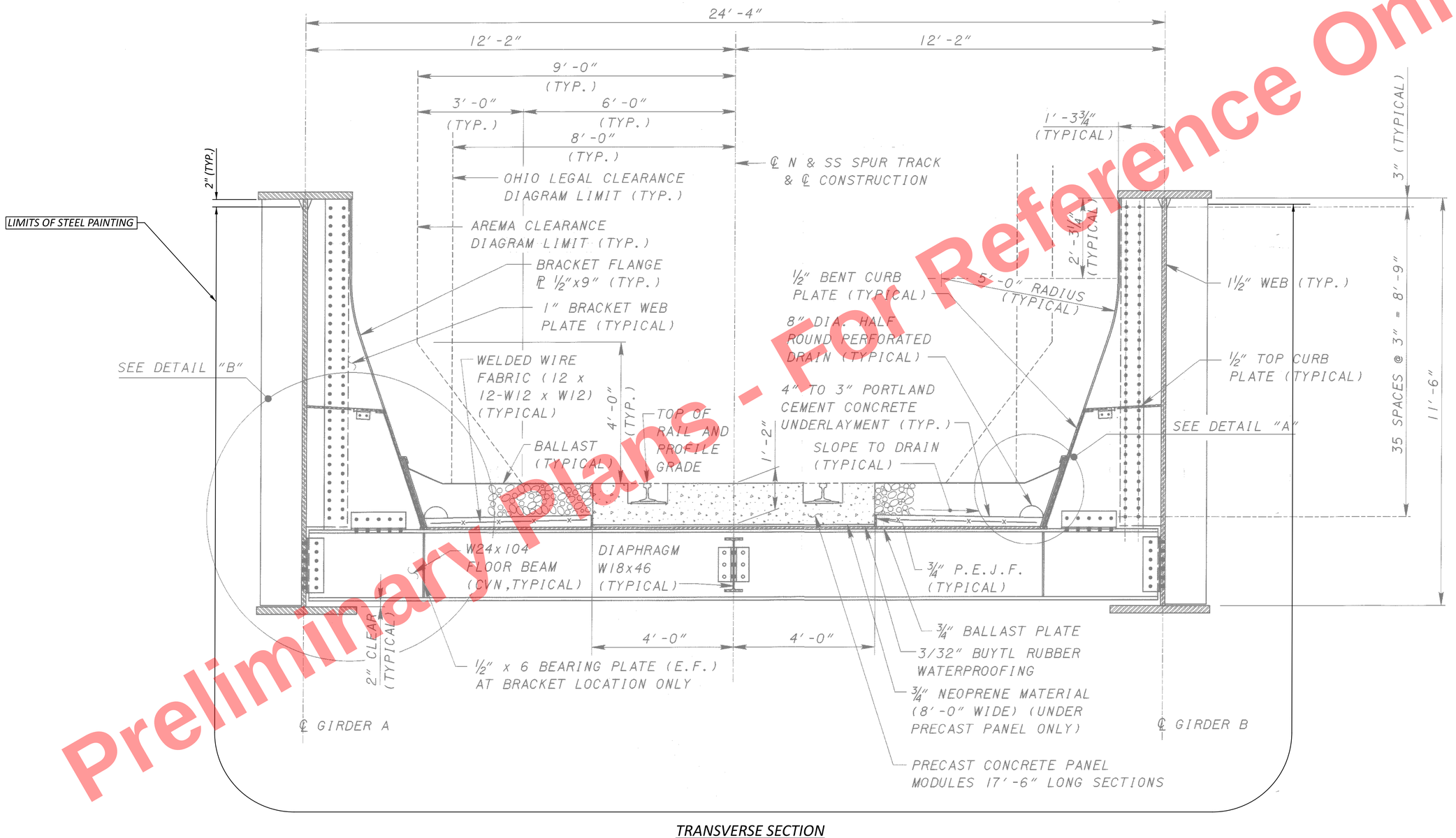


*TRANSVERSE SECTION*

*NOTES:*

*1. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.*

Preliminary Plans - For Reference Only

TRANSVERSE SECTION - LOCATION 3
BRIDGE NO. CUY-00077-11.710
OMNITRAX OVER I.R. 77

SFN 1806440

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25
PROJECT ID: 105743
SUBSET: 3 | TOTAL: 3
SHEET: P.15 | TOTAL: P.24

CUY-77-11.21 PART 2

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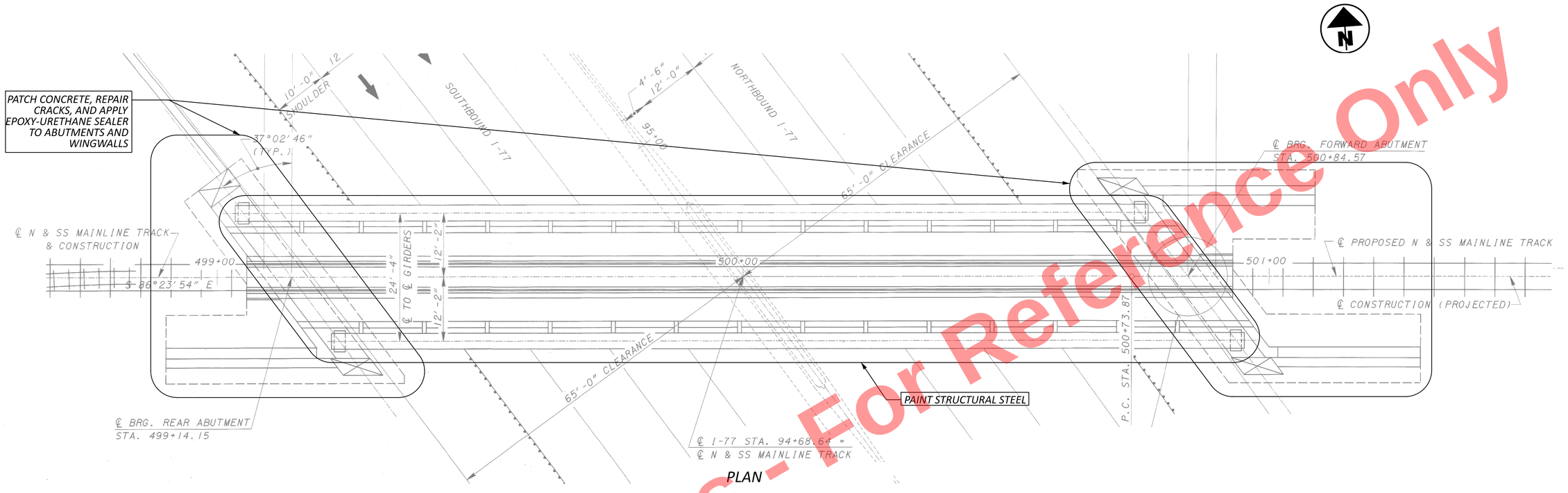
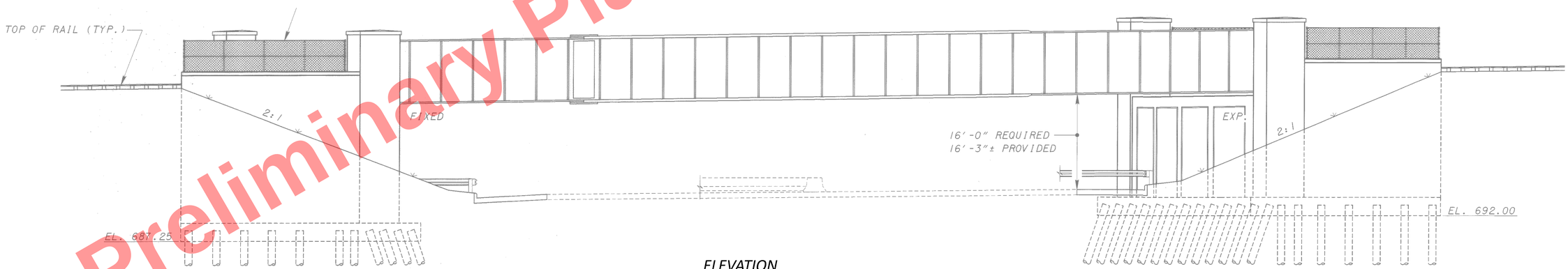



PLAN




ELEVATION

Preliminary Plans - For Reference Only

NOTES:

1. PAINT STEEL PER CM&S 514 USING OZEU. PAINT COLOR SHALL BE FEDERAL COLOR NO. 595B-16440, GREY (GLOSS).
2. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.

GENERAL PLAN - LOCATION 4
BRIDGE NO. CUY-00077-11.780
OMNITRAX OVER I.R. 77

SFN 1806491

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 3 |

| SHEET | TOTAL |
|---|---|
| P.16 | P.24 |

CUY-77-11.21 PART 2

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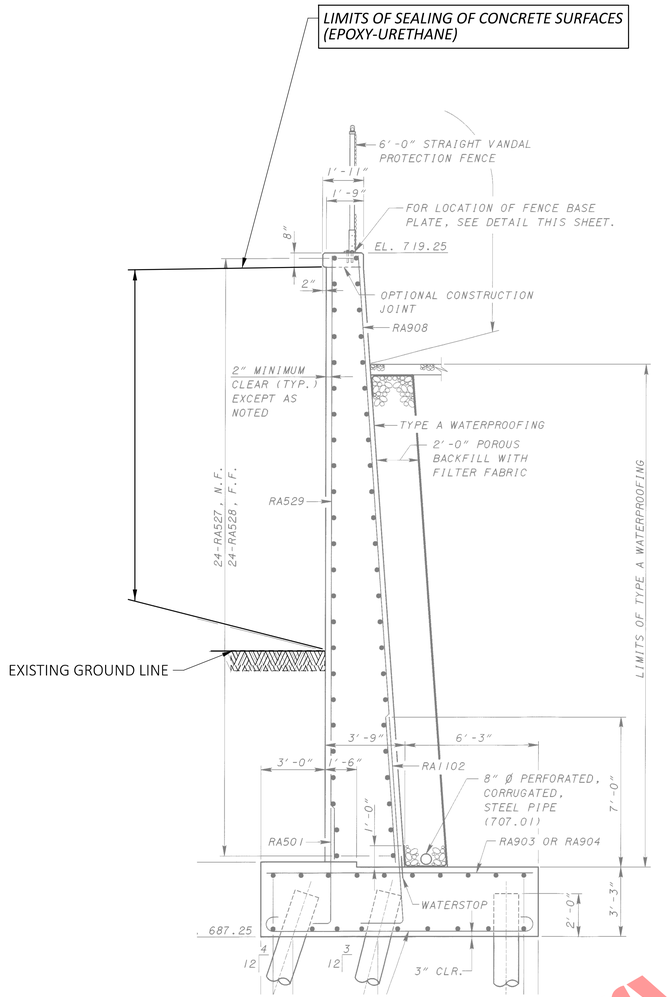
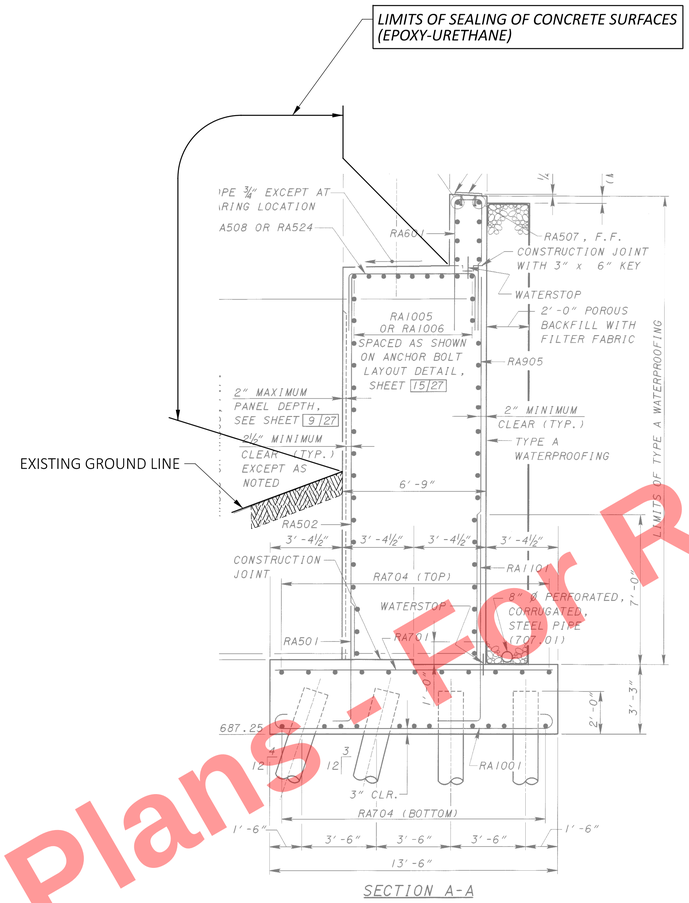



WINGWALL TYPICAL SECTION




SECTION A-A

ABUTMENT TYPICAL SECTION

*NOTES:*

1. *IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.*

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: / CHECKED BY: |
|---|---|---|---|---|---|
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
| 201 | 11001 | #REF! | LS | CLEARING AND GRUBBING, AS PER PLAN | P.3 |
| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 514 | 00050 | #REF! | SF | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL | |
| 514 | 00056 | #REF! | SF | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT | |
| 514 | 00060 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT | |
| 514 | 00066 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT | |
| 514 | 00504 | #REF! | MNHR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL | |
| 514 | 10000 | #REF! | EACH | FINAL INSPECTION REPAIR | |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

Preliminary Plans - Not for Construction
Reference Only

# SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 4
## BRIDGE NO. CUY-00077-11.780
## OMNITRAX OVER I.R. 77

SFN 1806491

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 2 | 3 |

| SHEET | TOTAL |
|---|---|
| P.17 | P.24 |

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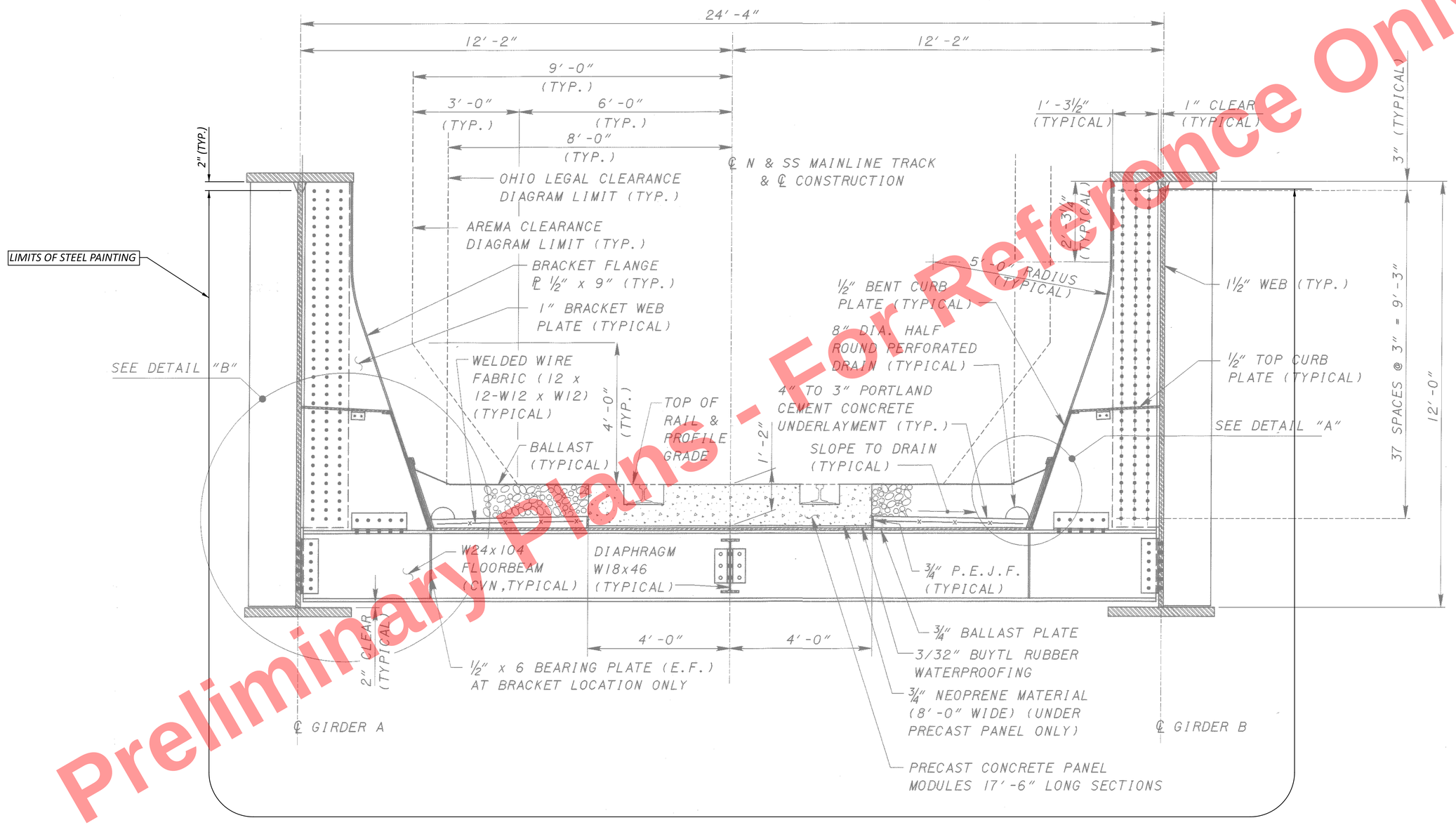
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\5-Engineering\Structures\SFN_1806491_AECOM\Sheets\105743_SFN_1806491_ST001.dgn






Preliminary Plans - For Reference Only

*TRANSVERSE SECTION*

*NOTES:*

*1. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.*

TRANSVERSE SECTION - LOCATION 4
BRIDGE NO. CUY-00077-11.780
OMNITRAX OVER I.R. 77

SFN 1806491

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

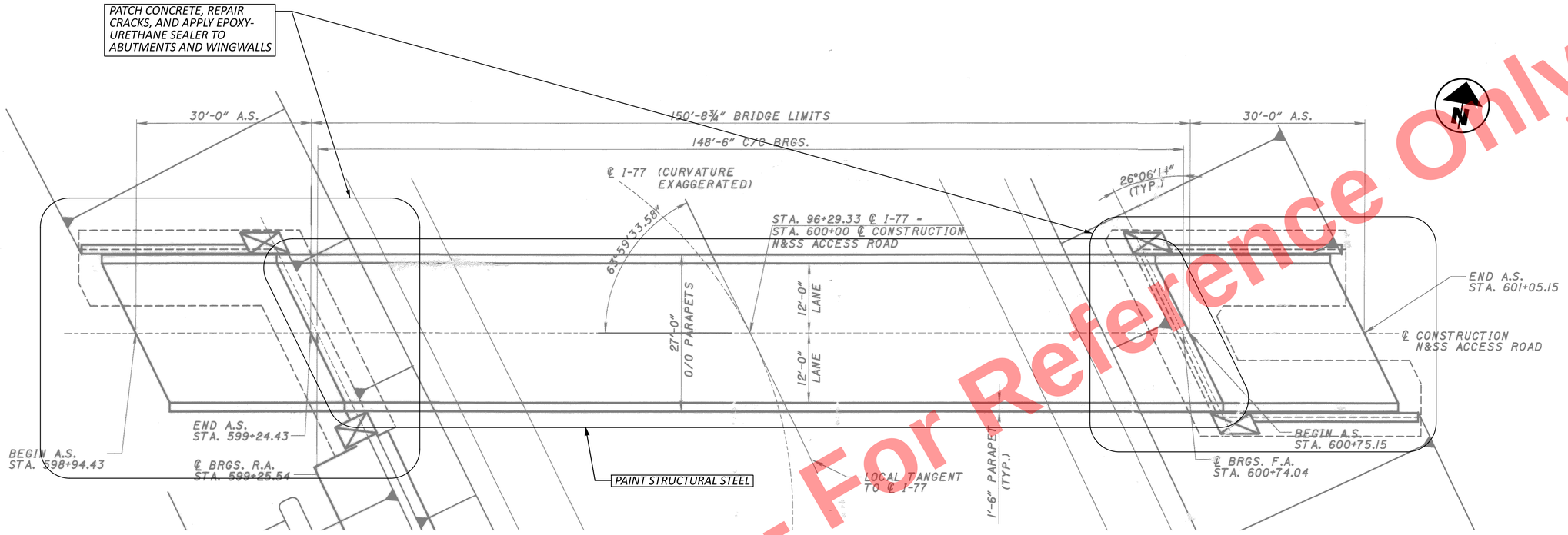
| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

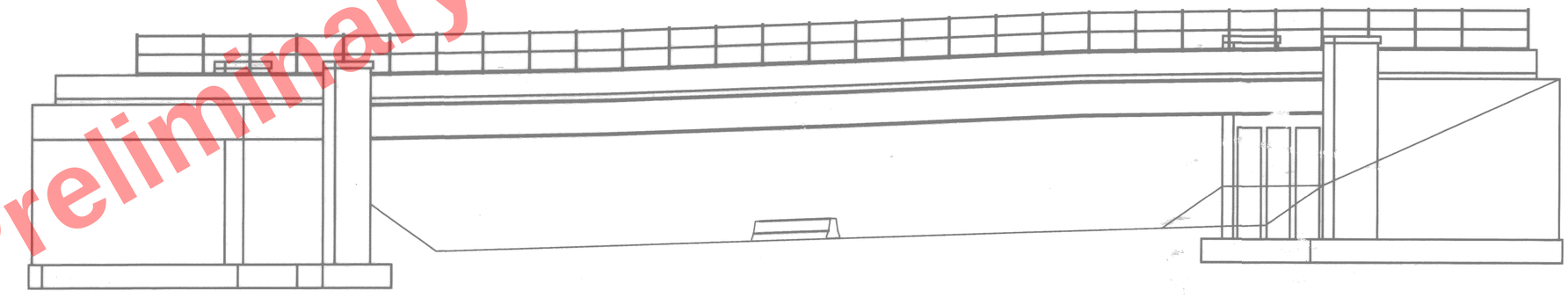
PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 3 | 3 |

| SHEET | TOTAL |
|---|---|
| P.18 | P.24 |




PLAN



ELEVATION

**NOTES:**

1. PAINT STEEL PER CM&S 514 USING OZEU. PAINT COLOR SHALL BE FEDERAL COLOR NO. 595B-16440, GREY (GLOSS).
2. IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.

Preliminary Plans - For Reference Only

GENERAL PLAN - LOCATION 5
BRIDGE NO. CUY-00077-11.803
ACCESS ROAD OVER I.R. 77

SFN 1806432

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 3 |

| SHEET | TOTAL |
|---|---|
| P.19 | P.24 |

CUY-77-11.21 PART 2

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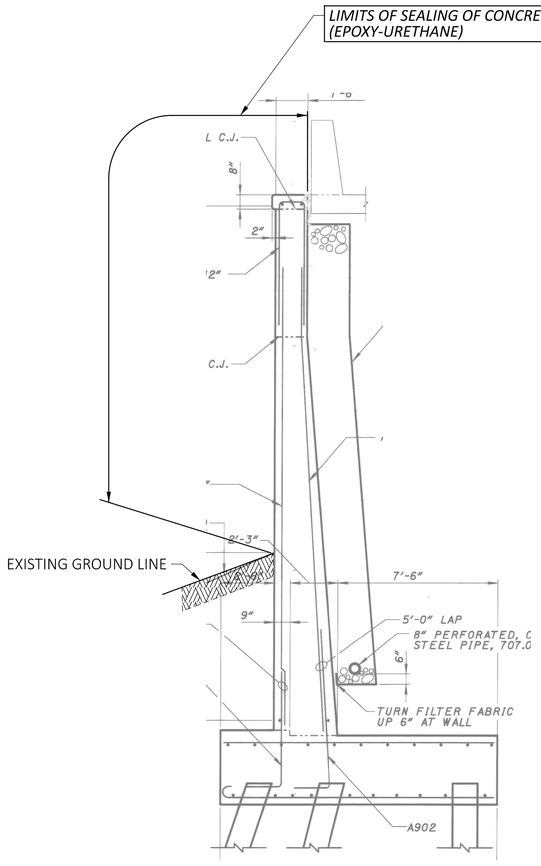
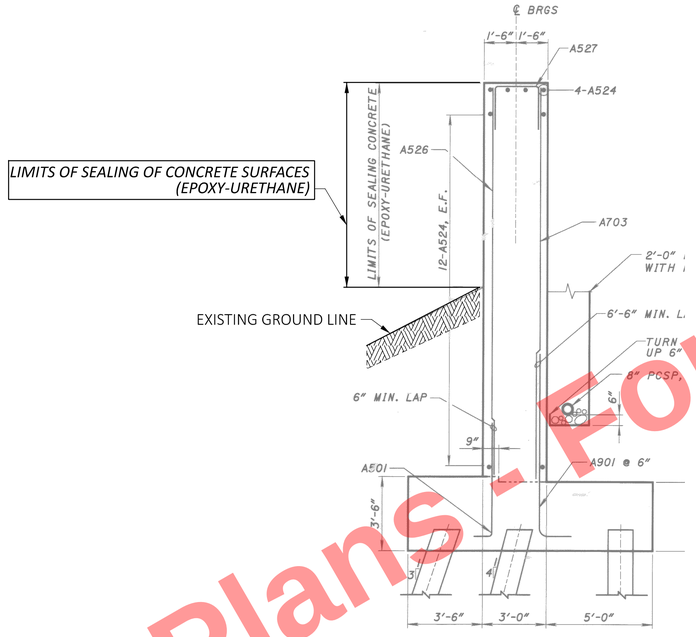
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806432_AECOM\Sheets\105743_SFN_1806432_SG001.dgn




*WINGWALL TYPICAL SECTION*




*ABUTMENT TYPICAL SECTION*

*NOTES:*

1. *IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.*

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: |
|---|---|---|---|---|---|
| | | | | | CHECKED BY: |
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
| 201 | 11001 | #REF! | LS | CLEARING AND GRUBBING, AS PER PLAN | P.3 |
| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 514 | 00050 | #REF! | SF | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL | |
| 514 | 00056 | #REF! | SF | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT | |
| 514 | 00060 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT | |
| 514 | 00066 | #REF! | SF | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT | |
| 514 | 00504 | #REF! | MNHR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL | |
| 514 | 10000 | #REF! | EACH | FINAL INSPECTION REPAIR | |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

Preliminary Plans - For Reference Only

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 5
BRIDGE NO. CUY-00077-11.803
ACCESS ROAD OVER I.R. 77

SFN 1806432

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

DESIGNER PN | CHECKER TMB
REVIEWER MRW 11/20/25
PROJECT ID 105743
SUBSET 2 | TOTAL 3
SHEET P.20 | TOTAL P.24

CUY-77-11.21 PART 2

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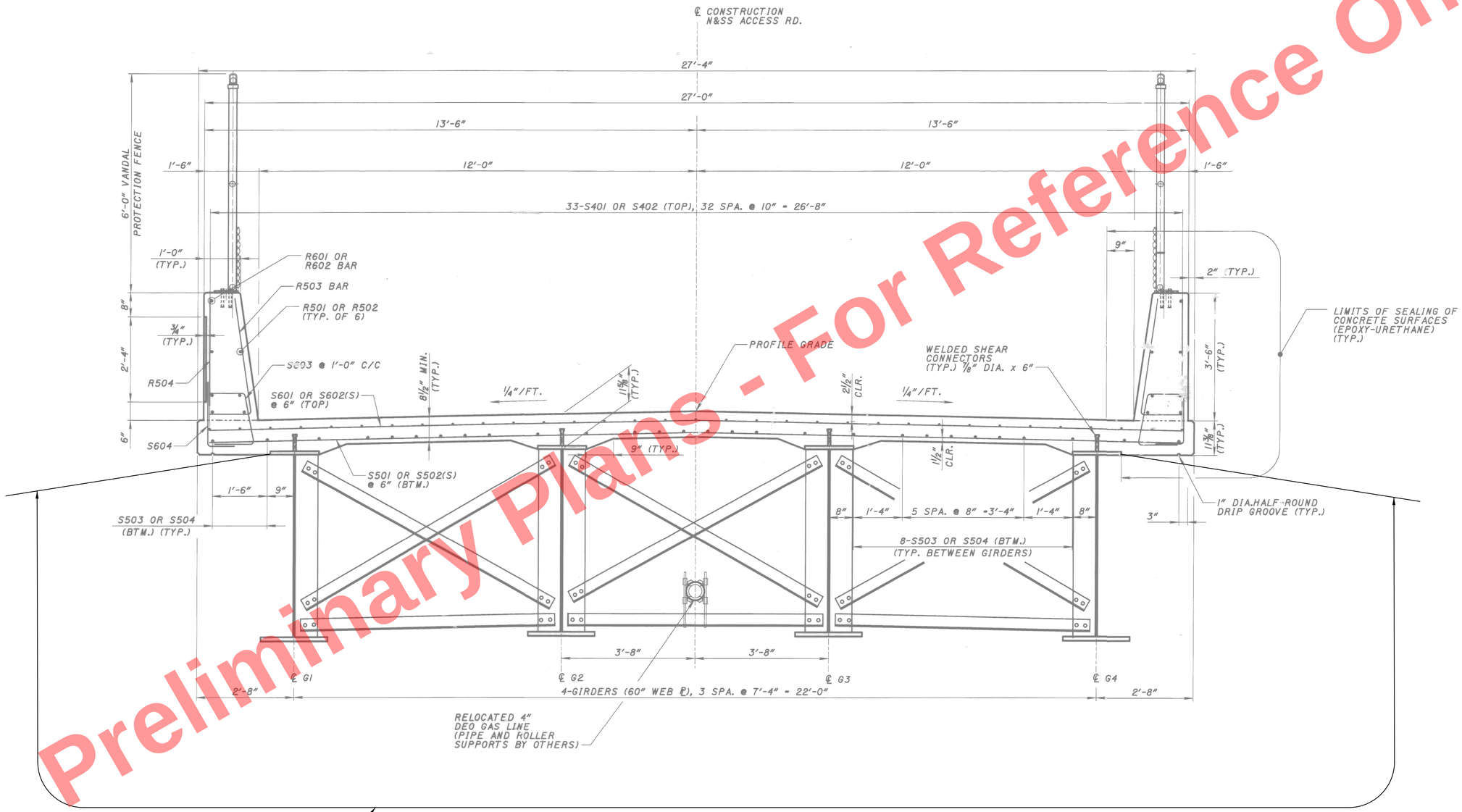
Preliminary Plans - For Reference Only




## TRANSVERSE SECTION

*NOTES:*

1. *IMAGES SHOWN ARE TAKEN FROM EXISTING PLANS.*

TRANSVERSE SECTION - LOCATION 5
BRIDGE NO. CUY-00077-11.803
ACCESS ROAD OVER I.R. 77

SFN 1806432

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 3 | 3 |

| SHEET | TOTAL |
|---|---|
| P.21 | P.24 |

CUY-77-11.21 PART 2

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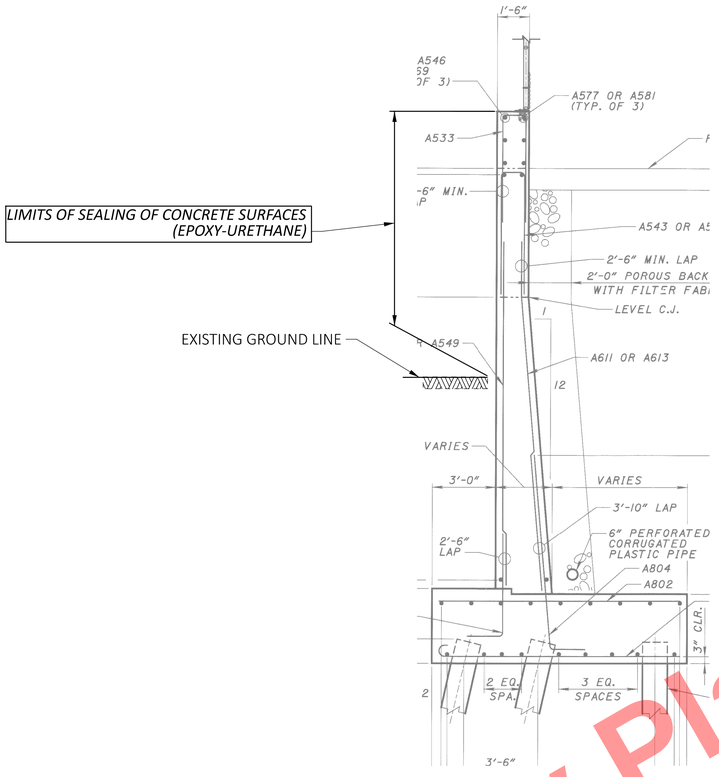
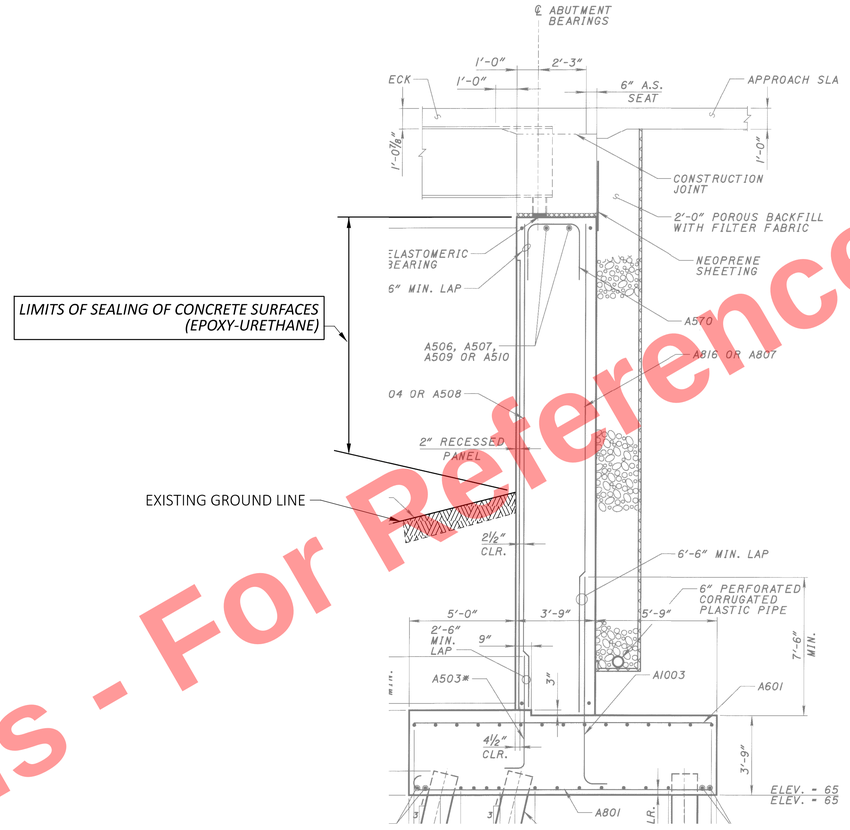
Preliminary Plans - For Reference Only




*WINGWALL TYPICAL SECTION*




*ABUTMENT TYPICAL SECTION*

*NOTES:*

1. *IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.*

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: / CHECKED BY: |
|---|---|---|---|---|---|
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | REF. SHEET |
| 201 | 11001 | #REF! | LS | CLEANING AND GRUBBING, AS PER PLAN | P.3 |
| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 6
BRIDGE NO. CUY-14752-0.018
FLEET AVE. OVER I.R. 77

SFN 1806521

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER: MRW 11/20/25

PROJECT ID: 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 1 |

| SHEET | TOTAL |
|---|---|
| P.22 | P.24 |

CUY-77-11.21 PART 2

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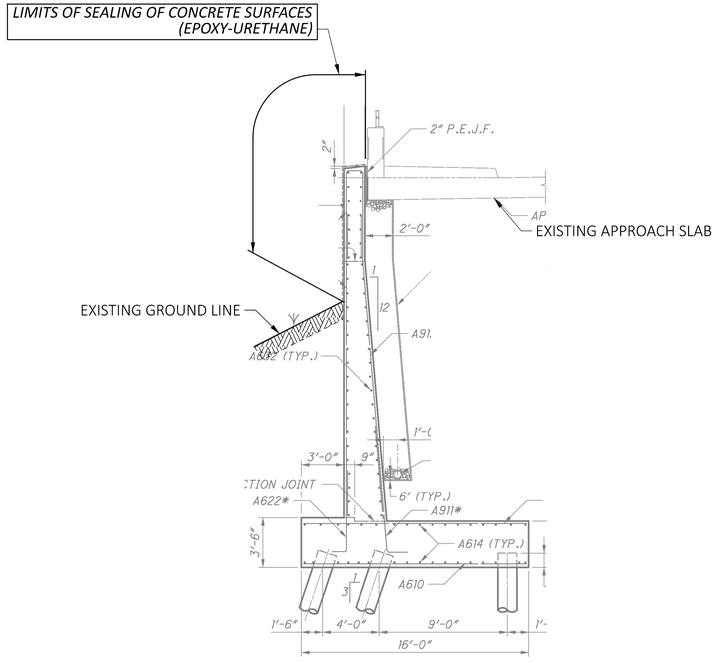
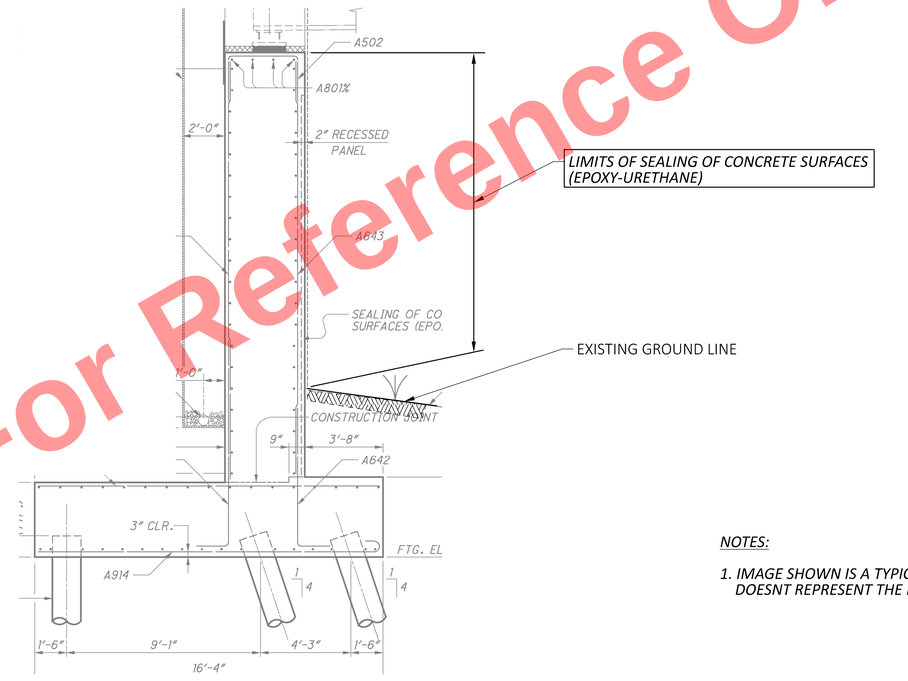



*WINGWALL TYPICAL SECTION*




*ABUTMENT TYPICAL SECTION*

*NOTES:*

1. *IMAGE SHOWN IS A TYPICAL SECTION AND DOESNT REPRESENT THE EXACT DIMENSIONS.*

| ESTIMATED QUANTITIES | | | | | CALCULATED BY: / CHECKED BY: |
|---|---|---|---|---|---|
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| | | | | | |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | P.3 |
| | | | | | |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | P.3 |

Preliminary Plans - For Reference Only

SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 7
BRIDGE NO. CUY-04462-0.159
PERSHING AVE. OVER I.R. 77

SFN 1806645

DESIGN AGENCY
AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

DESIGNER PN | CHECKER TMB
REVIEWER MRW 11/20/25
PROJECT ID 105743
SUBSET 1 | TOTAL 1
SHEET P.23 | TOTAL P.24

CUY-77-11.21 PART 2

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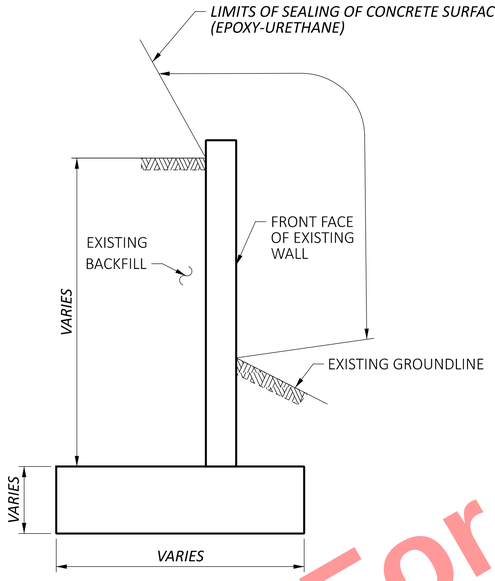


*RETAINING WALL TYPICAL SECTION*

*NOTES:*

1. *IMAGE SHOWN DOESNT REPRESENT THE EXACT DIMENSIONS.*
2. *WHERE FENCE REMOVAL AND REPLACEMENT IS PLANNED, CONTRACTOR SHALL COMPLETE SEALING OPERATIONS AFTER REMOVAL OF EXISTING FENCE AND BEFORE INSTALLATION OF PROPOSED FENCE.*

Preliminary Plans - Not For Reference Only

| ESTIMATED QUANTITIES | | | | | | | | | | CALCULATED BY: / CHECKED BY: |
|---|---|---|---|---|---|---|---|---|---|---|
| ITEM ODOT | EXT. | TOTAL | UNIT | DESCRIPTION | LOCATION 8: CUY-00077-11.711R | LOCATION 9: CUY-00077-11.840L | LOCATION 10: CUY-00077-11.897R | LOCATION 11: CUY-18394-0.206R | LOCATION 12: CUY-18395-0.017R | LOCATION 13: CUY-00077-12.720L | REF. SHEET |
| 201 | 11001 | #REF! | LS | CLEARING AND GUBBING, AS PER PLAN | #REF! | #REF! | #REF! | #REF! | #REF! | #REF! | P.3 |
| 202 | 38501 | #REF! | FT | BRIDGE RAILING REMOVED, AS PER PLAN | - | - | - | - | - | #REF! | P.3 |
| 202 | 75001 | #REF! | FT | FENCE REMOVED, AS PER PLAN | - | - | #REF! | - | - | - | P.3 |
| 512 | 10101 | #REF! | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | #REF! | #REF! | #REF! | #REF! | #REF! | #REF! | P.3 |
| 512 | 10601 | #REF! | FT | CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN | - | #REF! | - | - | - | - | P.3 |
| 512 | 74001 | #REF! | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN | #REF! | #REF! | #REF! | #REF! | #REF! | #REF! | P.3 |
| 519 | 11101 | #REF! | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | #REF! | #REF! | #REF! | #REF! | #REF! | #REF! | P.3 |
| 607 | 39901 | #REF! | FT | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN | - | - | #REF! | - | - | - | P.3 |
| 607 | 39911 | #REF! | FT | VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC, AS PER PLAN | - | - | - | - | - | #REF! | P.3 |

# SEALING DETAILS AND ESTIMATED QUANTITIES - LOCATION 8 THROUGH 13
## RETAINING WALLS

SFN NA

DESIGN AGENCY

AECOM
564 White Pond Drive
Akron, OH 44320
(330) 836-9111
www.aecom.com

| DESIGNER | CHECKER |
|---|---|
| PN | TMB |

REVIEWER MRW 11/20/25

PROJECT ID 105743

| SUBSET | TOTAL |
|---|---|
| 1 | 1 |

| SHEET | TOTAL |
|---|---|
| P.24 | P.24 |

CUY-77-11.21 PART 2

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