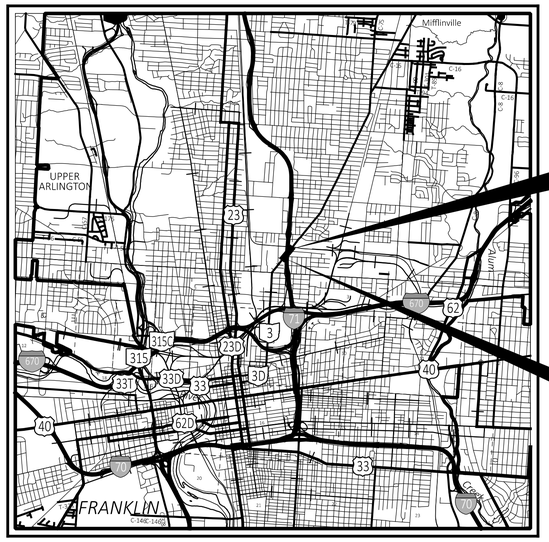
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FRA-3-17.44

CITY OF COLUMBUS
CLINTON TOWNSHIP
FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 39°59'25" N LONGITUDE: 82°59'10" W

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

DESIGN DESIGNATION

	IR 71	CLEVELAND AVE
CURRENT ADT (2026)	160,500	12,000
DESIGN YEAR ADT (2046)	166,500	11,500
DESIGN HOURLY VOLUME (2046)	11,450	1,350
DIRECTIONAL DISTRIBUTION	51.1%	51.4%
TRUCKS (24 HOUR B&C)	15.0%	3.0%
DESIGN SPEED	70 MPH	35 MPH
LEGAL SPEED	65 MPH	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	04 - MINOR ARTERIAL (URBAN)
NHS PROJECT	YES	YES

DESIGN EXCEPTIONS

NONE REQUIRED

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:
EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

INDEX OF SHEETS:

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STAGE 1
JUNE 12, 2026

STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS

FEDERAL PROJECT NUMBER

E240 (583)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

COMPLETE REPLACEMENT OF EXISTING BRIDGE FRA-00003-17.425, WHICH CARRIES CLEVELAND AVENUE OVER IR 71. LIMITED ROADWAY WORK ON EITHER SIDE OF THE BRIDGE TO TIE INTO THE PROPOSED STRUCTURE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.8 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	1.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski, P.E.
District 06 Deputy Director

Pamela Boratyn
Director, Department of Transportation

ENGINEER'S SEAL	ENGINEER'S SEAL	ENGINEER'S SEAL

TITLE SHEET

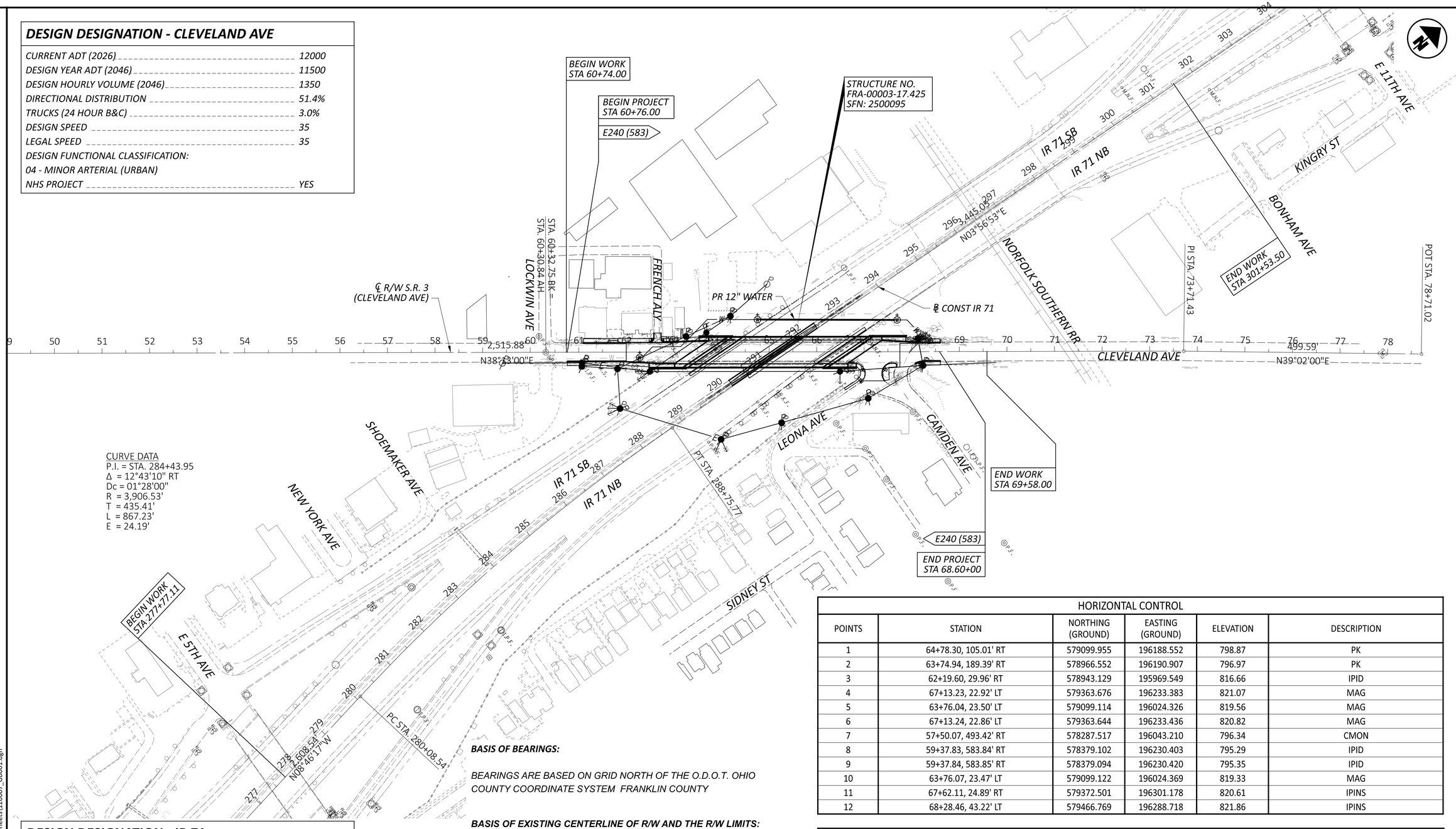
DESIGN AGENCY EMH&T
DESIGNER BLM
REVIEWER SJB 5-12-26
PROJECT ID 120607
SHEET P.1 TOTAL 130

FRA-3-17.44

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DESIGN DESIGNATION - CLEVELAND AVE

CURRENT ADT (2026)	12000
DESIGN YEAR ADT (2046)	11500
DESIGN HOURLY VOLUME (2046)	1350
DIRECTIONAL DISTRIBUTION	51.4%
TRUCKS (24 HOUR B&C)	3.0%
DESIGN SPEED	35
LEGAL SPEED	35
DESIGN FUNCTIONAL CLASSIFICATION: 04 - MINOR ARTERIAL (URBAN)	
NHS PROJECT	YES



CURVE DATA
P.I. = STA. 284+43.95
Δ = 12°43'10" RT
Dc = 01°28'00"
R = 3,906.53'
T = 435.41'
L = 867.23'
E = 24.19'

DESIGN DESIGNATION - IR 71

CURRENT ADT (2026)	160500
DESIGN YEAR ADT (2046)	166500
DESIGN HOURLY VOLUME (2046)	11450
DIRECTIONAL DISTRIBUTION	51.1%
TRUCKS (24 HOUR B&C)	15%
DESIGN SPEED	70
LEGAL SPEED	65
DESIGN FUNCTIONAL CLASSIFICATION: 01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	
NHS PROJECT	YES

BASIS OF BEARINGS:

BEARINGS ARE BASED ON GRID NORTH OF THE O.D.O.T. OHIO COUNTY COORDINATE SYSTEM FRANKLIN COUNTY

BASIS OF EXISTING CENTERLINE OF R/W AND THE R/W LIMITS:

THE CENTERLINE OF RIGHT OF WAY AND RIGHT OF WAY LIMITS WERE ESTABLISHED USING THE FOLLOWING CENTERLINE PLANS:

1997 CITY OF COLUMBUS FRA-3 CENTERLINE SURVEY PLAT (CLEVELAND AVE. IMPROVEMENTS FRANKLIN COUNTY CIP.048 (E01490_169-191)

1957 ODOT COLUMBUS EXPRESSWAY SYSTEM NORTH FREEWAY FRA-3-18.36 FRA-1-23.72-23.88 R/W PLANS LIMITED ACCESS

1958 ODOT COLUMBUS EXPRESSWAY SYSTEM NORTH FREEWAY FRA-1-23.78 R/W PLANS LIMITED ACCESS STATION 292+00 TO 303+00

HORIZONTAL CONTROL

POINTS	STATION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION	DESCRIPTION
1	64+78.30, 105.01' RT	579099.955	196188.552	798.87	PK
2	63+74.94, 189.39' RT	578966.552	196190.907	796.97	PK
3	62+19.60, 29.96' RT	578943.129	195969.549	816.66	IPID
4	67+13.23, 22.92' LT	579363.676	196233.383	821.07	MAG
5	63+76.04, 23.50' LT	579099.114	196024.326	819.56	MAG
6	67+13.24, 22.86' LT	579363.644	196233.436	820.82	MAG
7	57+50.07, 493.42' RT	578287.517	196043.210	796.34	CMON
8	59+37.83, 583.84' RT	578379.102	196230.403	795.29	IPID
9	59+37.84, 583.85' RT	578379.094	196230.420	795.35	IPID
10	63+76.07, 23.47' LT	579099.122	196024.369	819.33	MAG
11	67+62.11, 24.89' RT	579372.501	196301.178	820.61	IPINS
12	68+28.46, 43.22' LT	579466.769	196288.718	821.86	IPINS

VERTICAL CONTROL

BENCH MARK	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION	DESCRIPTION
BM #	XXXXXX.XXX	XXXXXXX.XXX	XXX.XX	XXXXXXXX
BM #	XXXXXX.XXX	XXXXXXX.XXX	XXX.XX	XXXXXXXX
BM #	XXXXXX.XXX	XXXXXXX.XXX	XXX.XX	XXXXXXXX

HORIZONTAL SCALE IN FEET
0 50 100 200

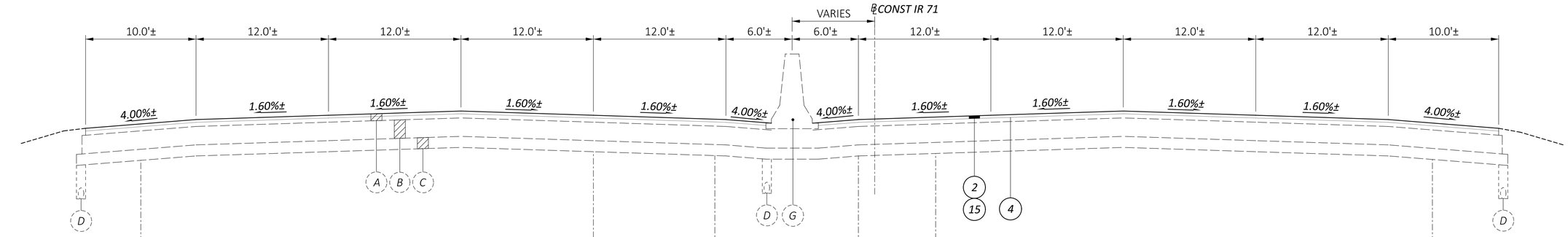
SCHEMATIC PLAN

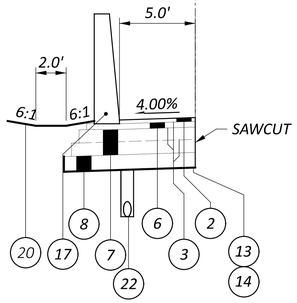
DESIGN AGENCY
EMH&T

DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.2 TOTAL 130

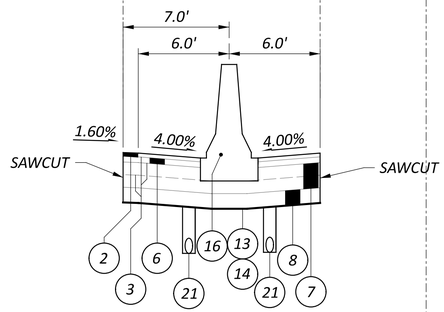
FRA-3-17.44

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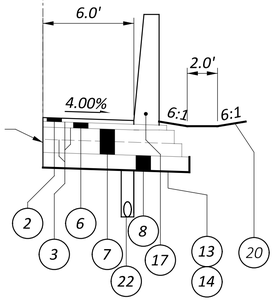




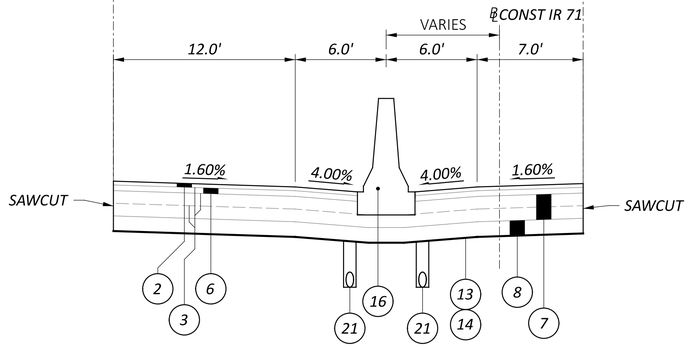
SECTION APPLIES:
STA 289+68.89 TO STA 291+08.90



SECTION APPLIES:
STA 290+30.12 TO STA 290+68.45
STA 292+05.01 TO STA 292+44.95



SECTION APPLIES:
STA 292+00.15 TO STA 293+28.19



SECTION APPLIES:
STA 290+68.45 TO STA 292+05.01

PROPOSED LEGEND

1. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (446), PG64-22
2. ITEM 442 - 1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
3. ITEM 407 - NON-TRACKING TACK COAT (0.055GAL/SY)
4. ITEM 407 - NON-TRACKING TACK COAT (0.085GAL/SY)
5. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (446)
6. ITEM 442 - 2.25" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
7. ITEM 301 - 10" ASPHALT CONCRETE BASE, PG64-22, (449) (2-LIFTS)
8. ITEM 304 - 6" AGGREGATE BASE
9. ITEM 609 - CURB, TYPE 6
10. ITEM 608 - 4" CONCRETE WALK
11. ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=17")
12. ITEM 605 - 4" BASE PIPE UNDERDRAINS (18" DEPTH)
13. ITEM 204 - SUBGRADE COMPACTION
14. ITEM 204 - PROOF ROLLING
15. ITEM 254 - 1.50" PAVEMENT PLANING, ASPHALT CONCRETE
16. ITEM 622 - BARRIER MISC: CONCRETE BARRIER
17. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
18. UNDERCUT - 12" DEPTH
    ITEM 204 - 12" EXCAVATION OF SUBGRADE
    ITEM 204 - 12" GRANULAR MATERIAL, TYPE C
    ITEM 204 - GEOTEXTILE FABRIC
19. ITEM 254 - 1.25" PAVEMENT PLANING, ASPHALT CONCRETE
20. ITEM 659 - SEEDING AND MULCHING
21. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS (12" DEEP)
22. ITEM 605 - 6" BASE PIPE UNDERDRAINS (18" DEEP)

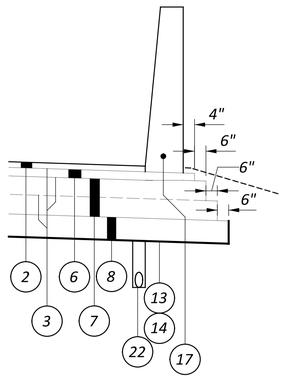
EXISTING/PROPOSED SECTION - IR 71

STA 277+76.80 TO STA 301+53.81

FOR ADDITIONAL INFORMATION ON
OVERLAY LIMITS, SEE SHEET P.40

EXISTING LEGEND

- A 3"± EX PAVEMENT
- B 10"± EX CONCRETE BASE
- C 6"± AGGREGATE BASE
- D EX UNDERDRAIN
- E EX CURB
- F EX CONC WALK
- G EX CONC BARRIER



STEP DETAIL

TYPICAL SECTIONS - IR 71

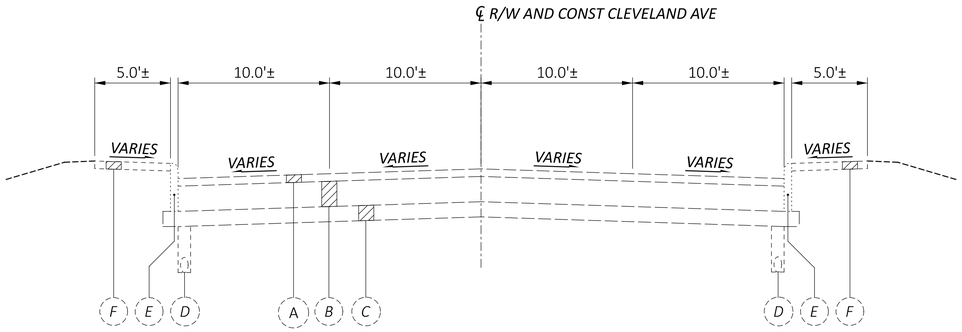
DESIGN AGENCY: EMH&T
DESIGNER: BLM
REVIEWER: SJB 06/12/26
PROJECT ID: 120607
SHEET: P.3 TOTAL: 130

FRA-3-17.44

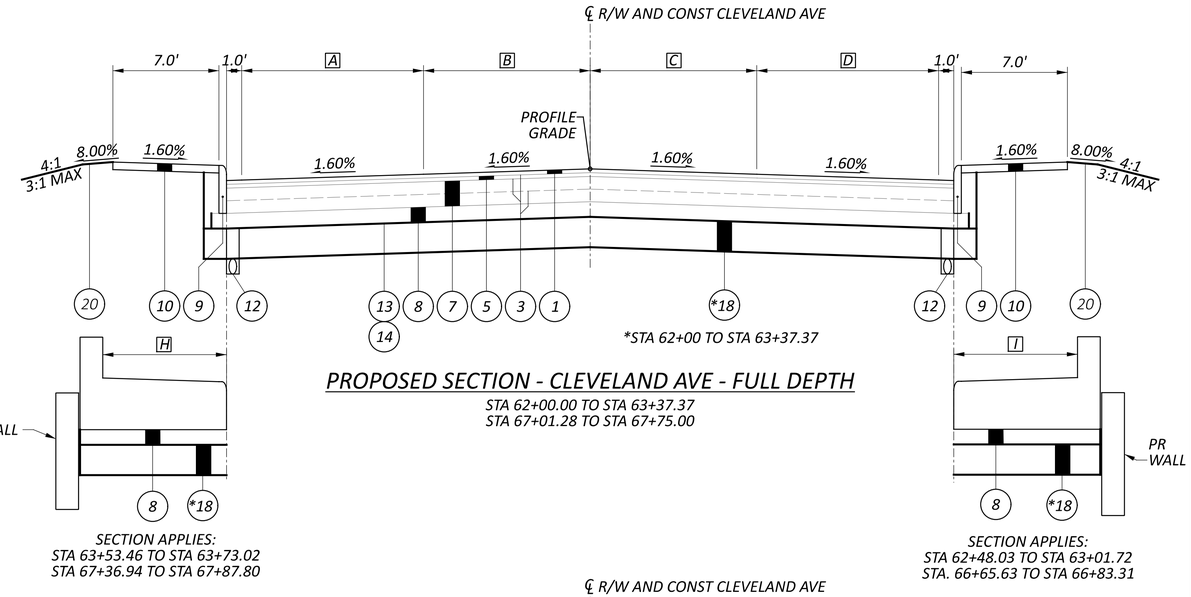
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MODEL: Typical Sections - Cleveland Ave - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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TYPICAL SECTIONS - CLEVELAND AVE



EXISTING SECTION - CLEVELAND AVE



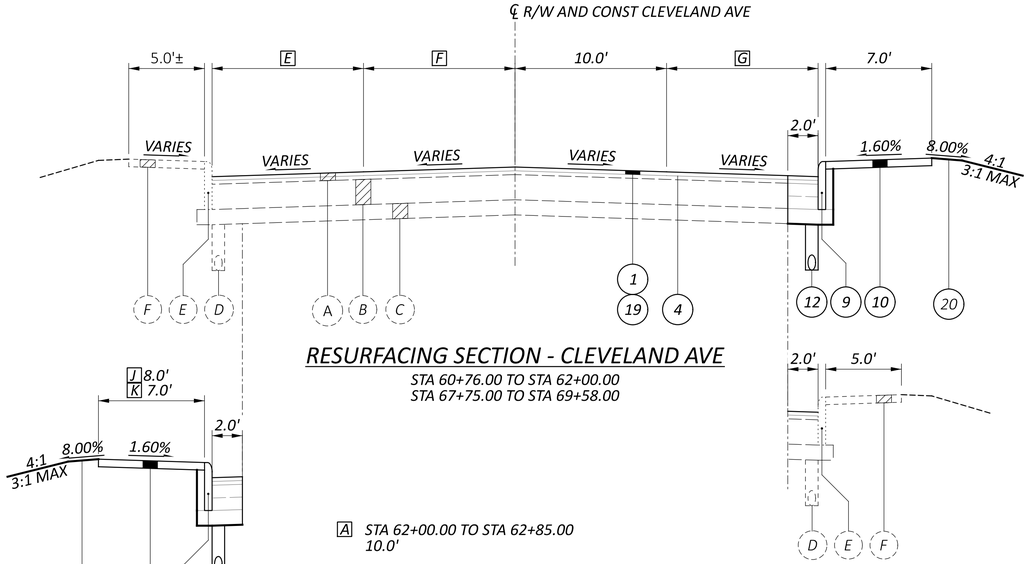
PROPOSED SECTION - CLEVELAND AVE - FULL DEPTH

STA 62+00.00 TO STA 63+37.37
STA 67+01.28 TO STA 67+75.00

**STA 62+00 TO STA 63+37.37*

SECTION APPLIES:
STA 63+53.46 TO STA 63+73.02
STA 67+36.94 TO STA 67+87.80

SECTION APPLIES:
STA 62+48.03 TO STA 63+01.72
STA. 66+65.63 TO STA 66+83.31



RESURFACING SECTION - CLEVELAND AVE

STA 60+76.00 TO STA 62+00.00
STA 67+75.00 TO STA 69+58.00

SECTION APPLIES:
J STA 61+10.00 TO STA 62+00.00
K STA 67+75.00 TO STA 69+58.00

SECTION APPLIES:
STA 68+75.00 TO STA 68+07.13
STA 68+60.00 TO STA 69+58.00

A STA 62+00.00 TO STA 62+85.00
10.0'

STA 62+85.00 TO STA 63+50.00 (SKEW)
10.0'± TO 12.0'

STA 63+50.00 TO STA 63+73.02 (SKEW)
12.0'

STA 67+01.28 TO STA 67+45.00
12.0'

STA 67+45.00 TO STA 67+75.00
12.0' TO 10.9'

B STA 62+00.00 TO STA 62+85.00
10.0'

STA 62+85.00 TO STA 63+50.00 (SKEW)
10.0' TO 11.0'

STA 67+01.28 TO STA 67+45.00
11.0'

STA 67+45.00 TO STA 67+75.00
11.0' TO 10.5'

C STA 62+00.00 TO STA 62+65.00
10.0' TO 11.0'

STA 62+65.00 TO STA 63+37.37
11.0'

STA 66+80.07 TO STA 67+75.00 (SKEW)
11.0' TO 10.3'

D STA 62+00.00 TO STA 62+65.00
10.0' TO 12.0'

STA 62+65.00 TO STA 63+37.37
12.0'

STA 66+80.07 TO STA 67+75.00 (SKEW)
12.0' TO 10.5'

E STA 60+76.00 TO STA 62+00.00
10.0'

STA 67+75.00 TO STA 68+10.00
10.9' TO 10.0'

STA 68+10.00 TO STA 69+58.00
10.0'

F STA 60+76.00 TO STA 62+00.00
10.0'

STA 67+75.00 TO STA 68+10.00
10.5' TO 10.0'

STA 68+10.00 TO STA 69+58.00
10.0'

G STA 60+76.00 TO STA 62+00.00
10.0'

STA 67+75.00 TO STA 68+10.00
10.5' TO 10.0'

STA 68+10.00 TO STA 69+58.00
10.0'

H MOMENT SLAB:
STA 663+53.46 TO STA 63+73.02
8.2'

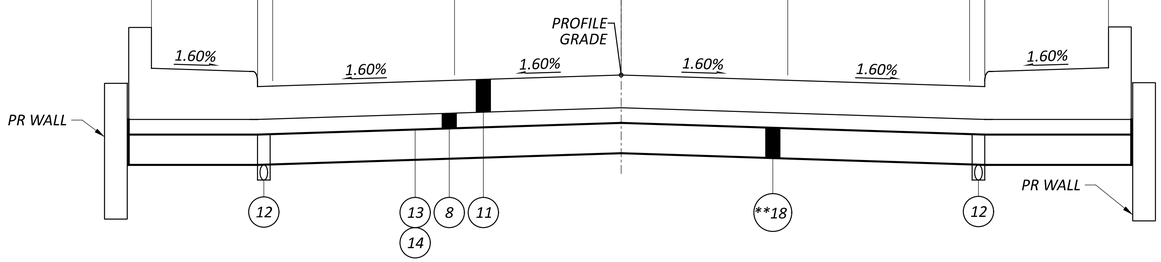
STA 67+01.28 TO STA 67+45.00
8.2'

STA 67+45.00 TO STA 67+87.80
8.2' TO 10.5'

I MOMENT SLAB:
STA 62+48.03 TO STA 62+65.00
10.1' TO 8.2'

STA 62+65.00 TO STA 63+37.37
8.2'

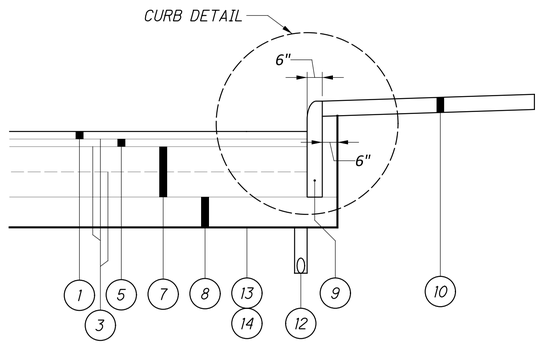
STA 66+65.63 TO STA 66+83.31
8.2'



PROPOSED SECTION - CLEVELAND AVE - APPROACH SLAB

STA 63+37.37 TO STA 63+67.37
STA 66+71.28 TO STA 67+01.28

*** STA 63+37.37 TO STA 63+67.37*



PROPOSED PAVEMENT BUILD-UP - CLEVELAND AVE

FOR LEGEND SEE SHEET P.3

DESIGN AGENCY
EMH&T

DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.4 TOTAL 130

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:

AEP
850 TECH CENTER DR
GAHANNA, OHIO 43230
ATTN: ROBERT MATTHEWS
(740) 348-5322
centralOHPPR@AEP.com

AEP (TRANSMISSION)
8600 SMITHS MILL RD
NEW ALBANY, OHIO 43054
ATTN: MICHAEL CARR
(380) 205-5072
TL_PublicProjects@aep.com

AT&T
111 NORTH 4TH ST
COLUMBUS, OHIO 43215
ATTN: ERIC EMORY
O - (740) 532-99
C - (740) 601-4380
G01553@att.com

AT&T (TRANSMISSION)
155 COMMERCE PARK DR, STE 1
WESTERVILLE, OHIO 43082
ATTN: JAMES SCHNEIDER
(440) 525-4322
James.schneider@mcgfiber.com

COLUMBIA GAS OF OHIO
290 W NATIONWIDE BLVD
COLUMBUS, OHIO 43215
ATTN: ROB CALDWELL
O - (614) 818-2104
C - (614) 370-1906
rcaldwell@nisource.com

EVERSTREAM
240 N 5TH ST, STE 168
COLUMBUS, OHIO 43215
ATTN: SCOTT LANCIA
(614) 515-3479
slancia@everstream.net

LUMEN
250 W. OLD WILSON BRIDGE, SUITE 130
WORTHINGTON, OH 43085
relocations@Lumen.com
HALEY WOOD
haley.wood@lumen.com

CHARTER/SPECTRUM
3760 INTERCHANGE RD
COLUMBUS, OHIO 43204
ATTN: STEVE RAY
O - (614) 481-5047
C - (614) 348-2966
Stephen.Ray@charter.com
DL-MOH-CONSTRUCTION-FRELO-TEAM@charter.com

MCI/VERIZON
757 COMMERCE CT
LEWIS CENTER, OHIO 43035
ATTN: JOHN DEERE
C - (614) 809-8866
John.deere@verizon.com
vz.net.columbus@verizon.com

ZAYO
722 N HIGH SCHOOL RD
INDIANAPOLIS, INDIANA 46214
ATTN: WAYLON HIGGINS
C - (765) 341-1199
waylon.higgins@zayo.com
zayo.relo.ohio@zayo.com

CITY OF COLUMBUS DPU
910 DUBLIN RD
COLUMBUS, OHIO 43215
ATTN: PHIL SCHMIDT
(614) 645-8276
PASchmidt@columbus.gov

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 MCKINLEY AVE
BUILDING C
COLUMBUS, OHIO 43222
CONTRACTOR LINE: (614) 645-7756

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 EAST 17TH AVE
COLUMBUS, OHIO 43219
OFFICE: (614) 645-7393

ODOT ITS
1606 W BROAD ST
COLUMBUS, OHIO 43223
cen.its,lab@dot.ohio.gov
OFFICE: (614) 645-7393

ODOT DISTRICT 6 REAL ESTATE
AJ LENT
DISTRICT 6 UTILITY COORDINATOR
400 E. WILLIAMS STREET
DELAWARE, OHIO 43015
Anthony.lent@dot.ohio.gov
O - (614) 645-7393
C - (614)-867-7472

UTILITIES

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.

SURVEYING PARAMETERS - OHIO COUNTY COORDINATE SYSTEM (OCCS)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2 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	
POSITIONING METHOD:	ODOT RTN, LEICA RTK
MONUMENT TYPE:	TYPE B
VERTICAL POSITIONING	
ORTHOMETRIC HEIGHT DATUM:	NAVD 88
GEOID:	18A
HORIZONTAL POSITIONING	
REFERENCE FRAME:	NAD83 (2011)
ELLIPSOID:	GRS-80
COORDINATE SYSTEM:	FRANKLIN COUNTY (OCCS)
MAP PROJECTION:	TRANSVERSE MERCATOR
CENTRAL LATITUDE:	N 38°24'00"
CENTRAL LONGITUDE:	E 276°54'00"
FALSE NORTHING:	0
FALSE EASTING:	50000
PROJECTION SCALE FACTOR:	1.000037

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.

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.

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 GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601, TIED CONCRETE BLOCK MAT, TYPE 1 ____ SY
ITEM 605, AGGREGATE DRAINS ____ FT
ITEM 611, ____ " CONDUIT, TYPE F ____ FT
ITEM 611, PRECAST REINFORCED CONCRETE OUTLET ____ EACH
ITEM 605, ____ " UNCLASSIFIED PIPE UNDERDRAINS ____ FT

PERMITS

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICES - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY.
PHONE: (614) 645-7497
FAX: (614) 645-1876
EMAIL: colspermits@columbus.gov

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST ____ EACH
659, TOPSOIL ____ CY
659, SEEDING AND MULCHING ____ SY
659, REPAIR SEEDING AND MULCHING ____ SY
659, INTER-SEEDING ____ SY
659, COMMERCIAL FERTILIZER ____ TON
659, LIME ____ ACRES
659, WATER ____ MGAL
659, MOWING ____ MSF

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.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.

4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

GENERAL NOTES

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

PROJECT ID
120607

SHEET P.5 | TOTAL 130

FRA-3-17.44

MODEL: General Notes - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

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. 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. 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.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

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.

NEW JERSEY BARRIER REPLACEMENT

A PORTION OF THE NEW JERSEY STYLE BARRIER IS TO BE REMOVED FROM STA 290+30.12 TO STA 290+70.13 AND STA 292+04.89 TO STA 292+44.95 AS SHOWN IN THE PLAN SHEETS. THE NEW JERSEY SHAPE SHALL BE RETAINED WHEN REPLACED AND ARCHIVED STANDARD DRAWINGS HAVE BEEN PROVIDED IN THE MISCELLANEOUS DETAILS FOR ADDITIONAL INFORMATION. ALL LABOR AND MATERIALS ARE INCLUDED IN THE BELOW ITEMS AS PER ITEM 622 AND THE PROVIDED ARCHIVED STANDARD DRAWINGS.

ITEM 622 - BARRIER MISC.: CONCRETE BARRIER, SCD MC-9.3
ITEM 622 - BARRIER MISC.: CONCRETE BARRIER TRANSITION, SCD MC-9.4

ITEM 622 - BARRIER MISC.: CONCRETE BARRIER, SCD MC-9.3
ITEM 622 - BARRIER MISC.: CONCRETE BARRIER TRANSITION, SCD MC-9.4

ALL WORK FOR THIS ITEM SHALL BE ACCORDING TO DETAIL SHOWN ON SHEETS P.68 AND P.69

GENERAL NOTES

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

PROJECT ID
120607

SHEET P.6 | TOTAL 130

FRA-3-17.44

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SEQUENCE OF CONSTRUCTION
CONSTRUCTION OPERATIONS SHALL BE COMPLETED IN THREE MAJOR PHASES AS DETAILED WITHIN. ENTRANCE AND EXIT RAMPS SHALL BE MAINTAINED AT ALL TIMES

CLEVELAND AVENUE
PRE-PHASE 1
THIS PHASE OF WORK SHALL COMPLETE THE WATERLINE RELOCATION IN TWO PARTS. TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED ON CLEVELAND USING FLAGGERS AS DETAILED WITHIN IN PART 1, AND ONE LANE PER DIRECTION SHALL BE MAINTAINED IN PART 2. THE CONTRACTOR SHALL INSTALL SHORING AT THE LEFT SIDE OF THE REAR ABUTMENT WINGWALL WITH THE WATERLINE INSTALLATION TO FACILITATE TEMPORARY OVERHEAD ELECTRIC RELOCATION.

PRE-PHASE 2
THE TEMPORARY PEDESTRIAN WALKWAY ALONG THE NORTH SIDE OF THE BRIDGE SHALL BE CONSTRUCTED IN PRE-PHASE 2. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED ON CLEVELAND AVENUE WITH TRAFFIC SHIFTED AWAY FROM THE WORK ZONE USING PORTABLE BARRIER. THIS PHASE SHALL ALSO INSTALL TEMPORARY PAVEMENT TO BE UTILIZED IN PHASE 1.

PHASE 1
PHASE 1 SHALL CONSTRUCT THE SOUTH SIDE OF THE PROPOSED BRIDGE. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED ON CLEVELAND AVENUE WITH TRAFFIC SHIFTED AWAY FROM THE WORK ZONE USING PORTABLE BARRIER. A PORTION OF THE PROPOSED SIDEWALK ON THE SOUTH SIDE OF THE BRIDGE SHALL BE NON-PERFORMED IN THIS PHASE TO ALLOW FOR ENOUGH SPACE TO MAINTAIN TWO LANES IN PHASE 2. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON THE TEMPORARY WALKWAY CONSTRUCTED IN PRE-PHASE 2. THIS PHASE OF WORK SHALL ALSO INSTALL TEMPORARY PAVEMENT TO BE UTILIZED IN PHASE 2.

PHASE 2
PHASE 2 SHALL CONSTRUCT THE NORTH SIDE OF THE PROPOSED BRIDGE. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED ON CLEVELAND AVENUE WITH TRAFFIC SHIFTED AWAY FROM THE WORK ZONE USING PORTABLE BARRIER. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON THE NEWLY CONSTRUCTED WALK ALONG THE SOUTH SIDE OF THE BRIDGE.

PHASE 3
THIS PHASE OF WORK SHALL COMPLETE THE REMAINDER OF THE SIDEWALK ON THE SOUTH SIDE OF CLEVELAND AVENUE. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED ON CLEVELAND AVENUE WITH TRAFFIC SEPARATED FROM THE WORK ZONE USING PORTABLE BARRIER. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON THE NORTH SIDE IN PHASE 3.

IR-71
PRE-PHASE 1 UTILITY RELOCATIONS
PRIOR TO THE START OF PHASE 1, THE OVERHEAD ELECTRIC LINE RELOCATION SHALL BE COMPLETED UNDER SHOULDER CLOSURE USING DRUMS PER ODOT SCD MT-95.45. IF ADDITIONAL ROOM IS NEEDED TO COMPLETE THIS WORK, TRAVEL LANES ON IR-71 MAY BE CLOSED WITH DRUMS PER ODOT SCD MT-95.30 AND THE PERMITTED LANE CLOSURE SCHEDULE. SHORT-TERM NIGHT TIME CLOSURES PER ODOT SCD MT-99.60 MAY ALSO BE USED TO FACILITATE THE ELECTRIC LINE RELOCATION.

PHASE 1 ABUTMENT WORK
THE DEMOLITION AND CONSTRUCTION OF BRIDGE ABUTMENTS WITHIN THE PHASE 1 WORK ZONE SHALL BE COMPLETED WITH TRAFFIC ON IR-71 SHIFTED TO THE INSIDE SHOULDERS USING PORTABLE BARRIER.

PIER WORK
UPON COMPLETION OF THE PHASE 1 ABUTMENT WORK, TRAFFIC SHALL BE SHIFTED TO THE OUTSIDE SHOULDERS TO DEMOLISH AND CONSTRUCT THE BRIDGE PIERS ON IR-71. THIS SET-UP SHALL STAY IN PLACE THROUGH THE END OF PHASE 1 AND INTO PHASE 2.

PHASE 2 ABUTMENT WORK
UPON COMPLETION OF PHASE 2 PIER WORK, PHASE 2 OF THE ABUTMENT WORK SHALL BE CONSTRUCTED BY SHIFTING TRAFFIC TO THE INSIDE SHOULDERS IN THE SAME ALIGNMENT AS PHASE 1.

OVERHEAD WORK
DEMOLITION AND BEAM INSTALLATION OVER IR-71 TRAVEL LANES WILL BE COMPLETED UNDER FULL CLOSURE. PRELIMINARY DISCUSSIONS WITH THE DISTRICT INDICATED THAT 15 MINUTE ROLLING CLOSURES WILL LIKELY BE INSUFFICIENT FOR THE WORK PERFORMED. FURTHER COORDINATION ON CLOSURE AND PLAN REQUIREMENTS WILL BE NECESSARY PRIOR TO STAGE 2.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
EMH&T

DESIGNER
BDM

REVIEWER
SMM 06/12/26

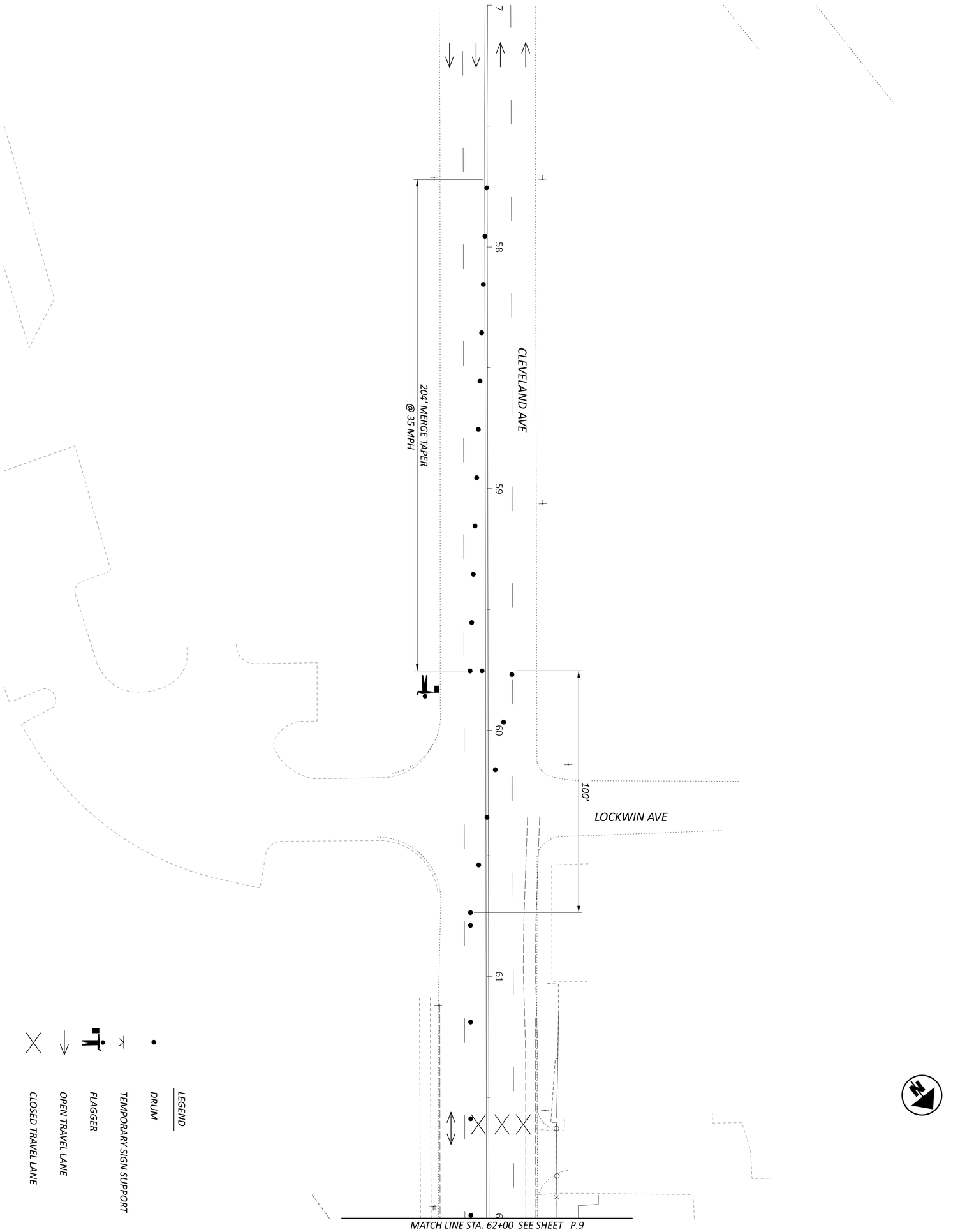
PROJECT ID
120607

SHEET P.7 | TOTAL 130

FRA-3-17.44

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MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 1
CLEVELAND AVENUE - STA. 57+00 TO STA. 62+00

HORIZONTAL SCALE IN FEET
0 20
10 40

SHEET	TOTAL
P.8	130

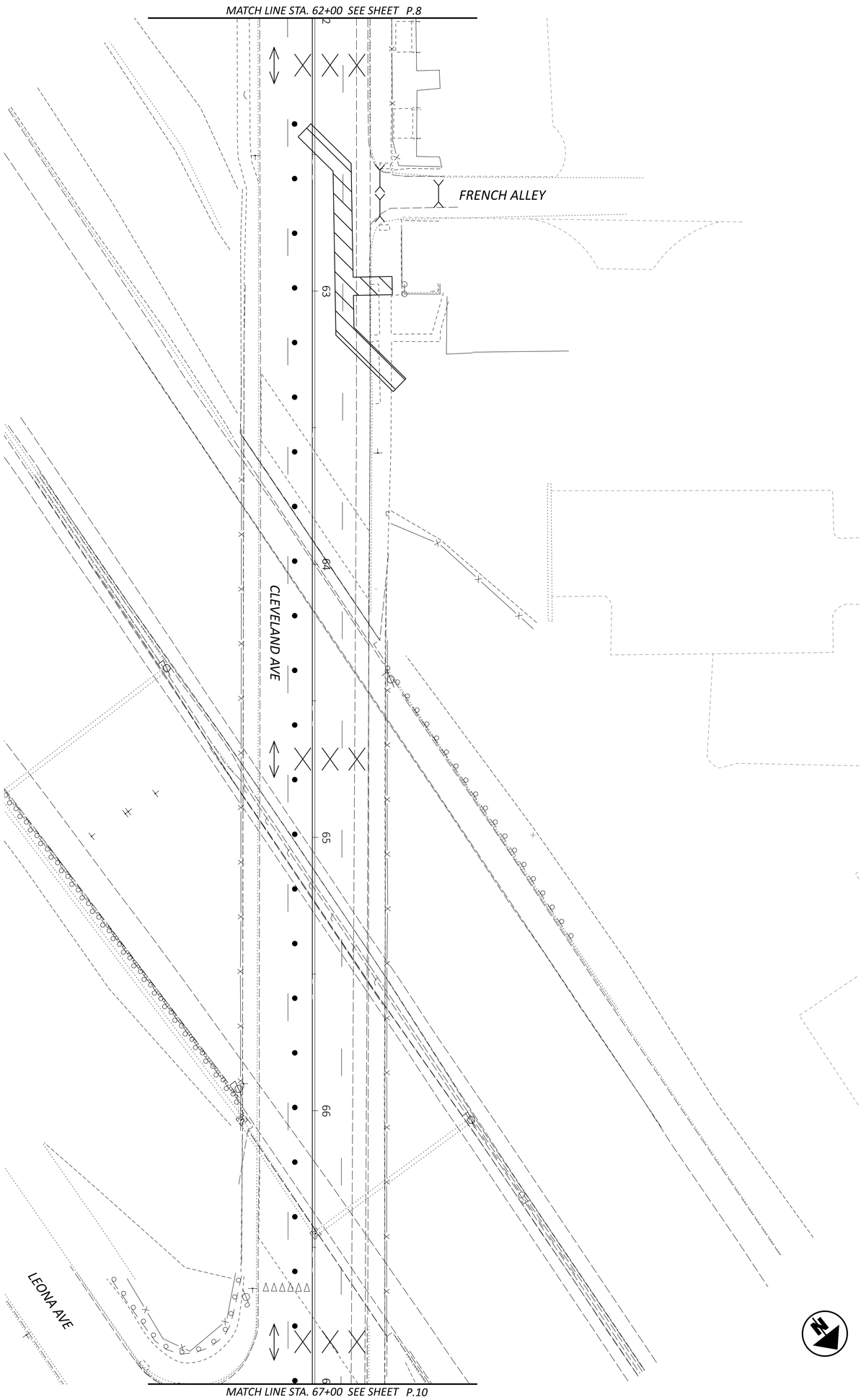
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REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T

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LEGEND

- WORK ZONE
- DRUM
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE
- TYPE III BARRICADE
- CLOSED TRAVEL LANE

SHEET	TOTAL
P.9	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

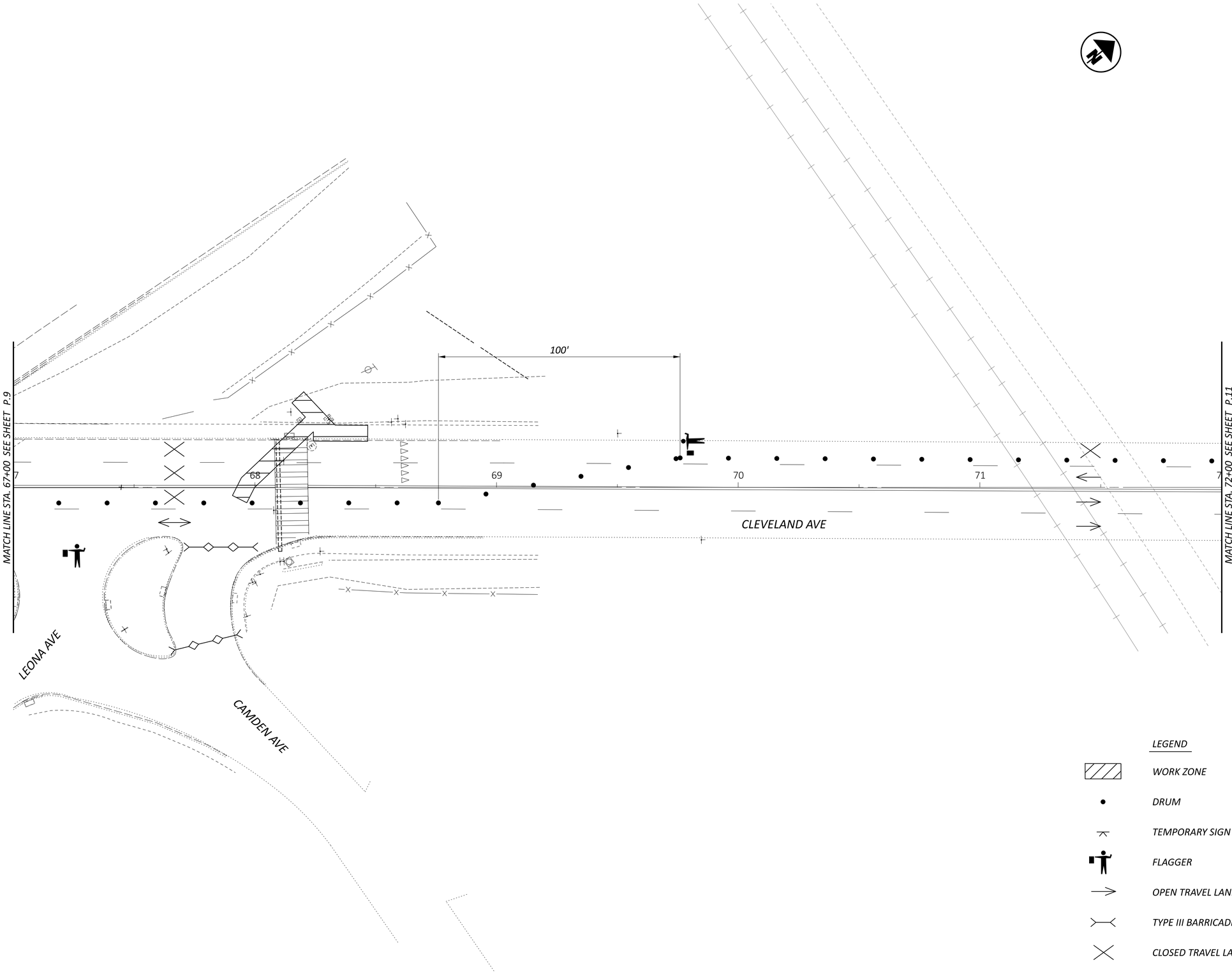
DESIGNER: BDM

DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 1
CLEVELAND AVENUE - STA. 62+00 TO STA. 67+00

HORIZONTAL SCALE IN FEET

0 20
10 40



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 1
CLEVELAND AVENUE - STA. 67+00 TO STA. 72+00

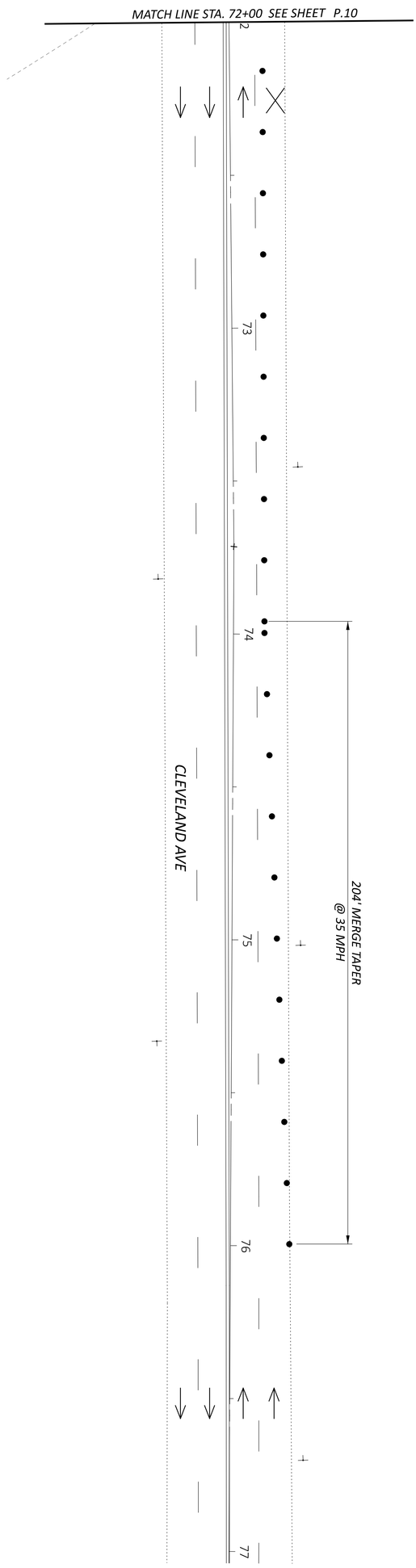
DESIGN AGENCY
EMH&T

DESIGNER BDM
REVIEWER SMM 06/12/26
PROJECT ID 120607
SHEET P.10 TOTAL 130

FRA-3-17.44

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LEGEND

DRUM

TEMPORARY SIGN SUPPORT

OPEN TRAVEL LANE

CLOSED TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 1
CLEVELAND AVENUE - STA. 72+00 TO STA. 77+00

HORIZONTAL SCALE IN FEET
0 10 20 40

SHEET	TOTAL
P.11	130

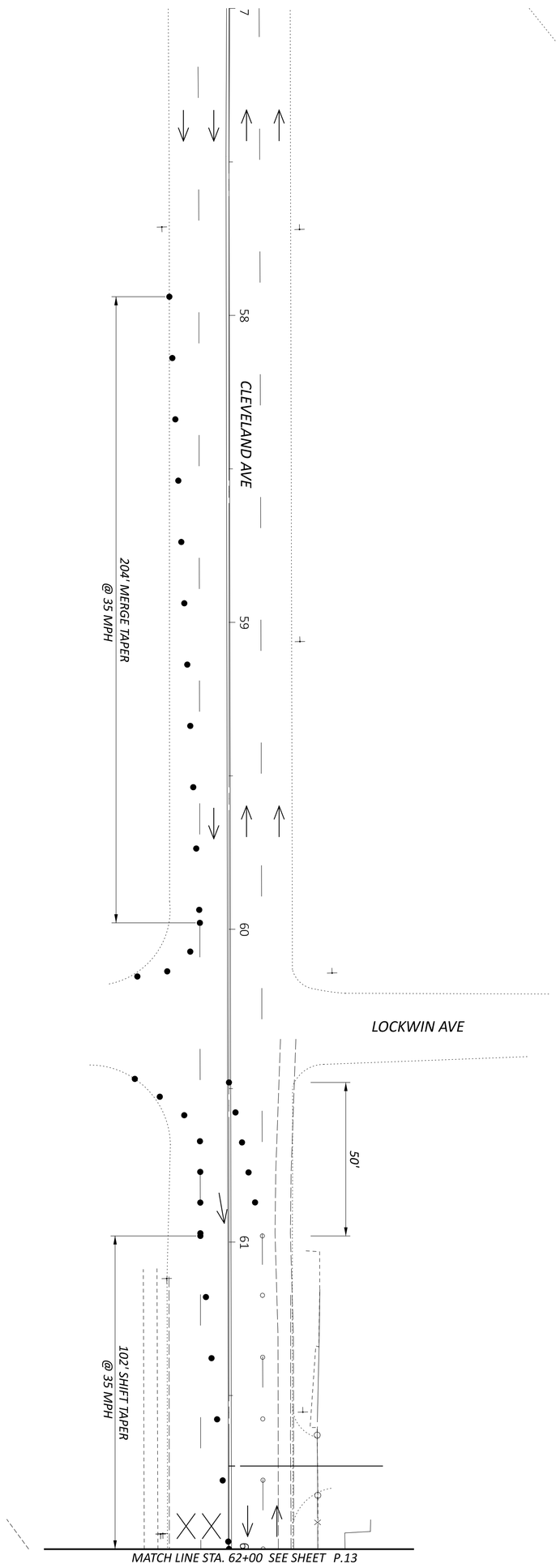
PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T

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LEGEND

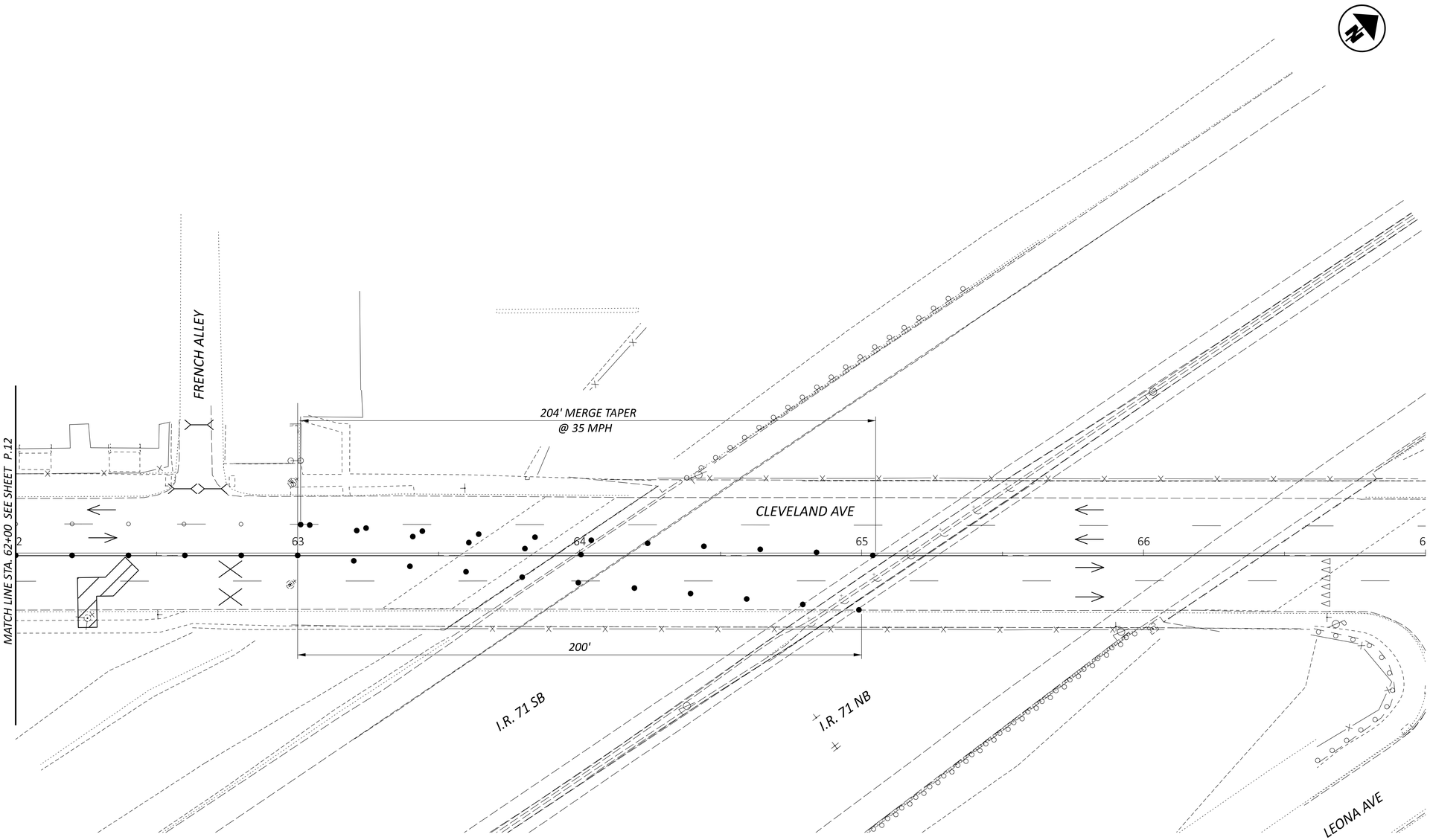
- DRUM
- 42" REFLECTIVE CHANNELIZING DEVICE
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE
- CLOSED TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 2
CLEVELAND AVENUE - STA. 57+00 TO STA. 62+00

HORIZONTAL SCALE IN FEET
0 20
10 40

SHEET	TOTAL
P.12	130

PROJECT ID: 120607
REVIEWER: SMM 06/12/26
DESIGNER: BDM
DESIGN AGENCY: EMH&T



LEGEND

- *WORK ZONE*
- *DRUM*
- *42" REFLECTIVE CHANNELIZING DEVICE*
- *TEMPORARY SIGN SUPPORT*
- *OPEN TRAVEL LANE*
- *TYPE III BARRICADE*
- *CLOSED TRAVEL LANE*

HORIZONTAL SCALE IN FEET
0 10 20 40

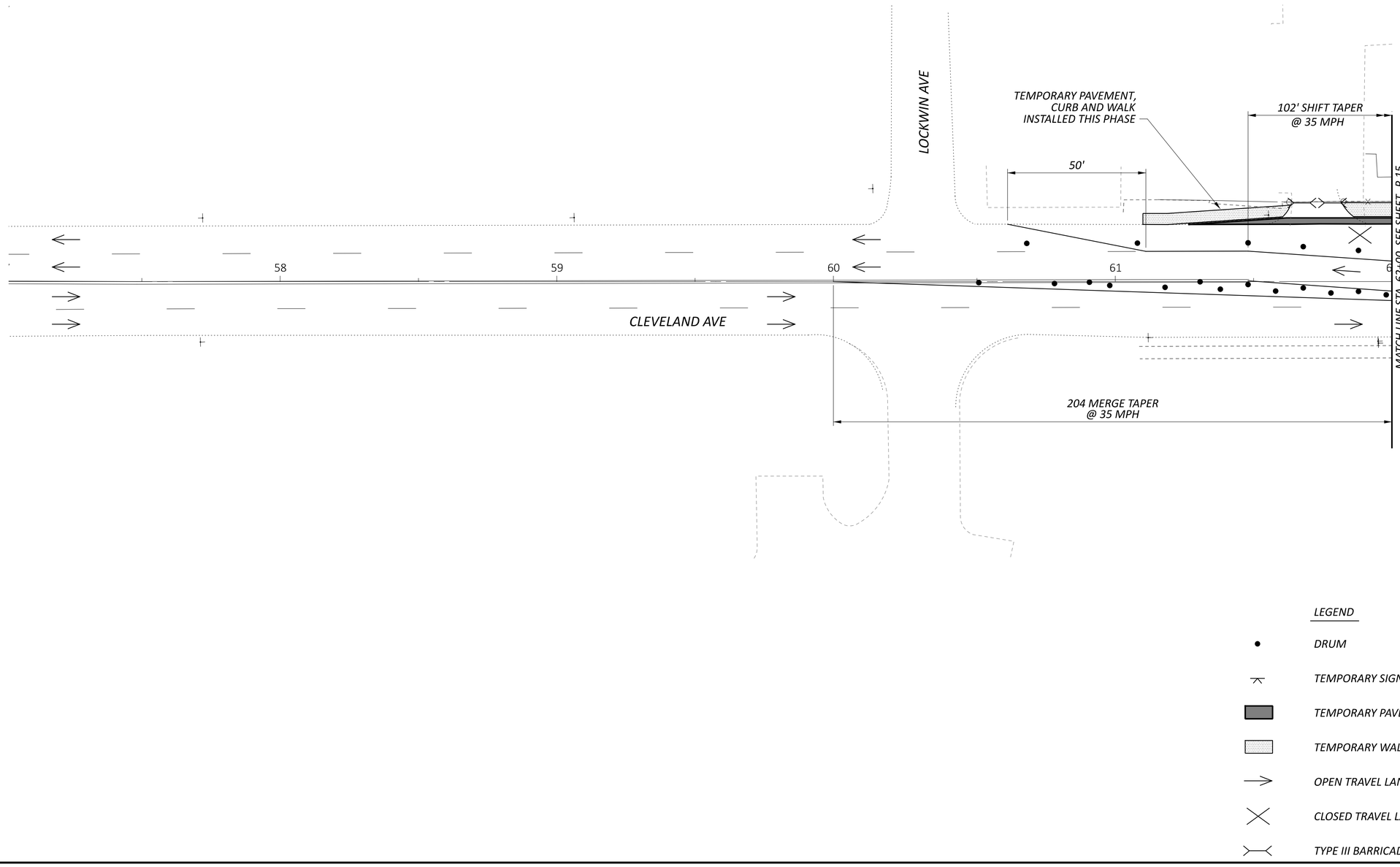
MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 1 - PART 2
CLEVELAND AVENUE - STA. 62+00 TO STA. 67+00

DESIGN AGENCY
EMH&T

DESIGNER	BDM
REVIEWER	SMM 06/12/26
PROJECT ID	120607
SHEET	P.13
TOTAL	130

FRA-3-17.44

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HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 2
CLEVELAND AVENUE - STA. 57+00 TO STA. 62+00

DESIGN AGENCY
EMH&T

DESIGNER
BDM

REVIEWER
SMM 06/12/26

PROJECT ID
120607

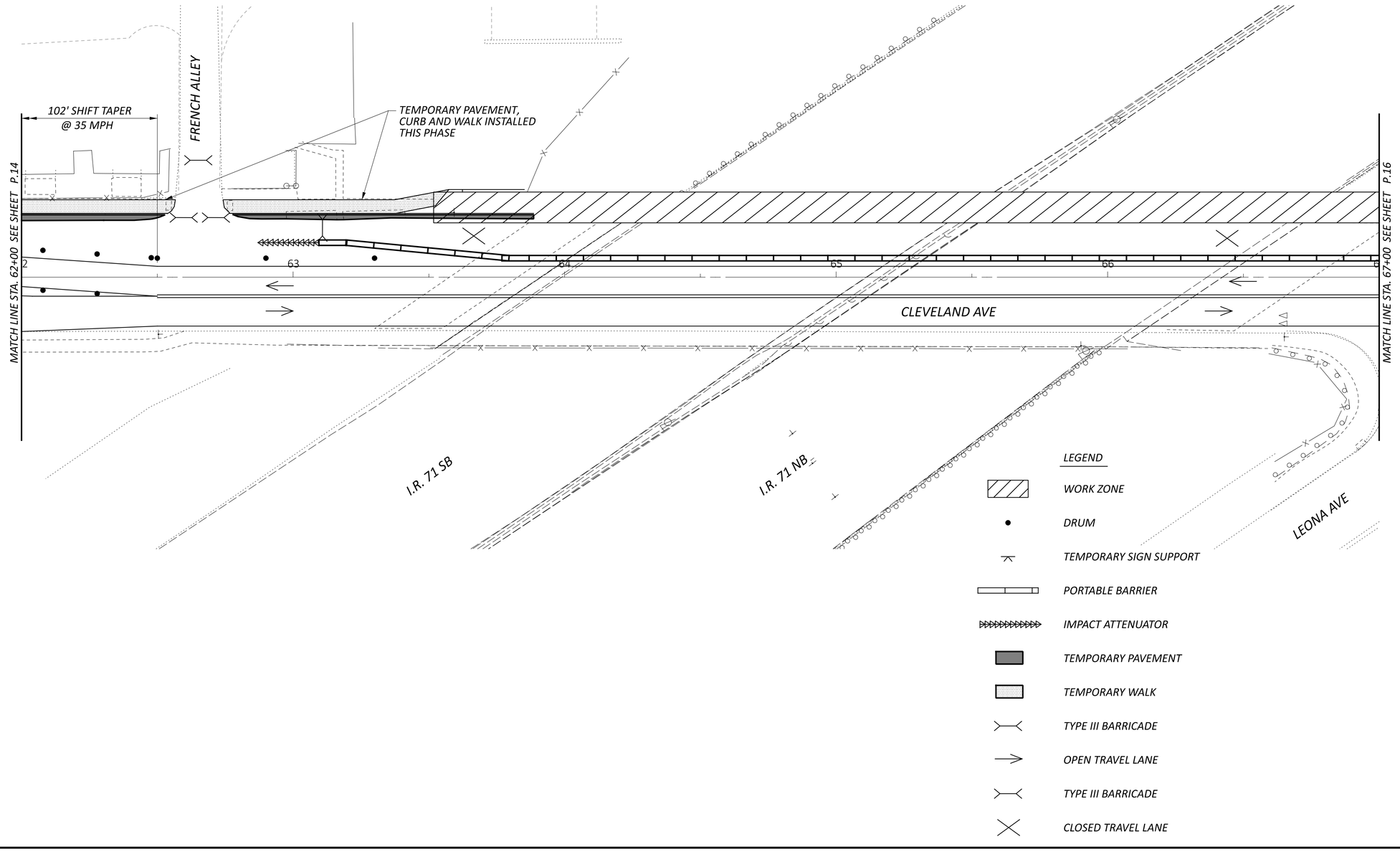
SHEET P.14 TOTAL 130

FRA-3-17.44

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MODEL: CLRWX_R7 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:31 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP002.dgn

FRA-3-17.44



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 2
CLEVELAND AVENUE - STA. 62+00 TO STA. 67+00

DESIGN AGENCY
EMH&T

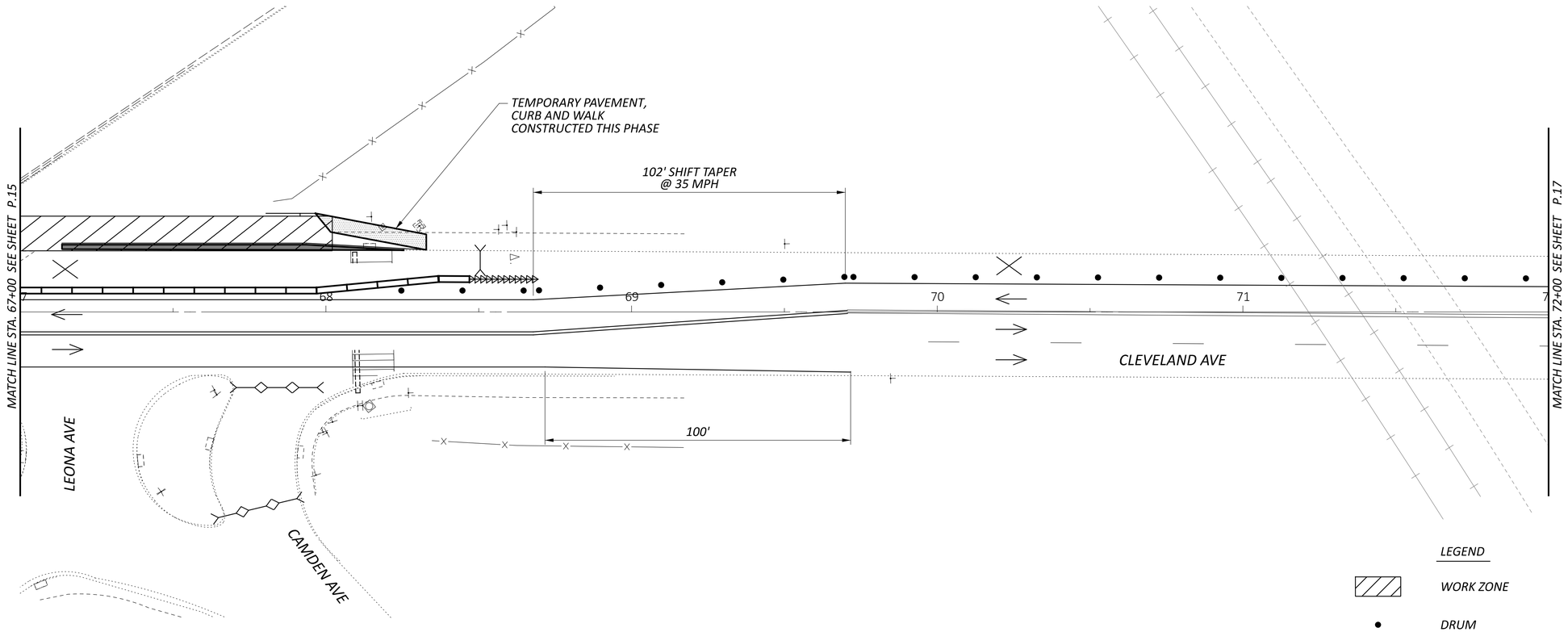
DESIGNER
BDM

REVIEWER
SMM 06/12/26

PROJECT ID
120607

SHEET P.15 | TOTAL 130

MODEL: CLRWX_R7 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024090\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP002.dgn



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 2
CLEVELAND AVENUE - STA. 67+00 TO STA. 72+00

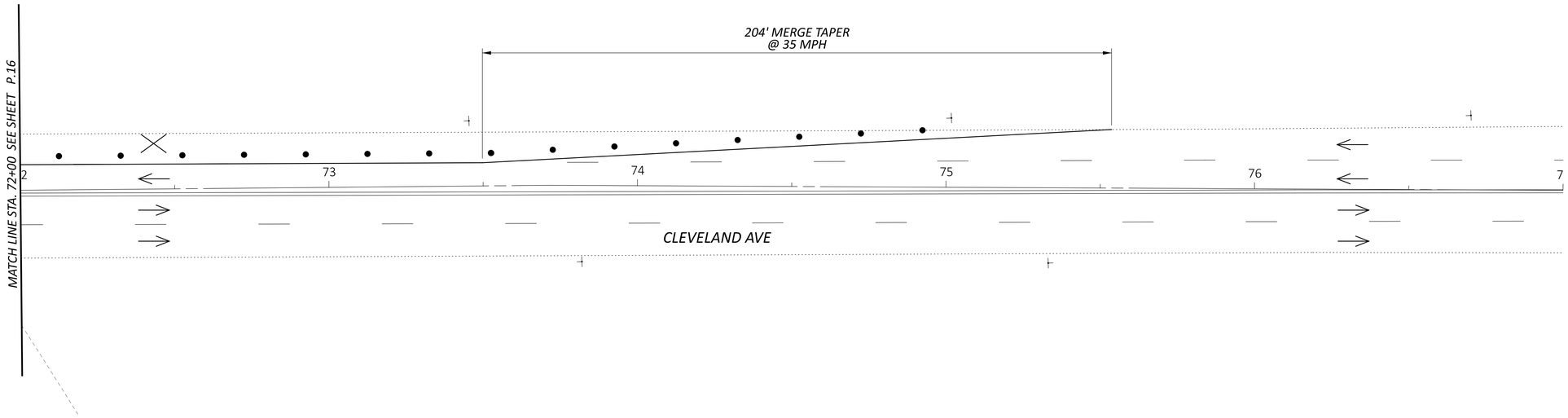
DESIGN AGENCY
EMH&T

DESIGNER BDM
REVIEWER SMM 06/12/26
PROJECT ID 120607
SHEET P.16 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R7 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP002.dgn

FRA-3-17.44



LEGEND

- DRUM
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE
- CLOSED TRAVEL LANE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PRE-PHASE 2
CLEVELAND AVENUE - STA. 72+00 TO STA. 77+00

DESIGN AGENCY
EMH&T

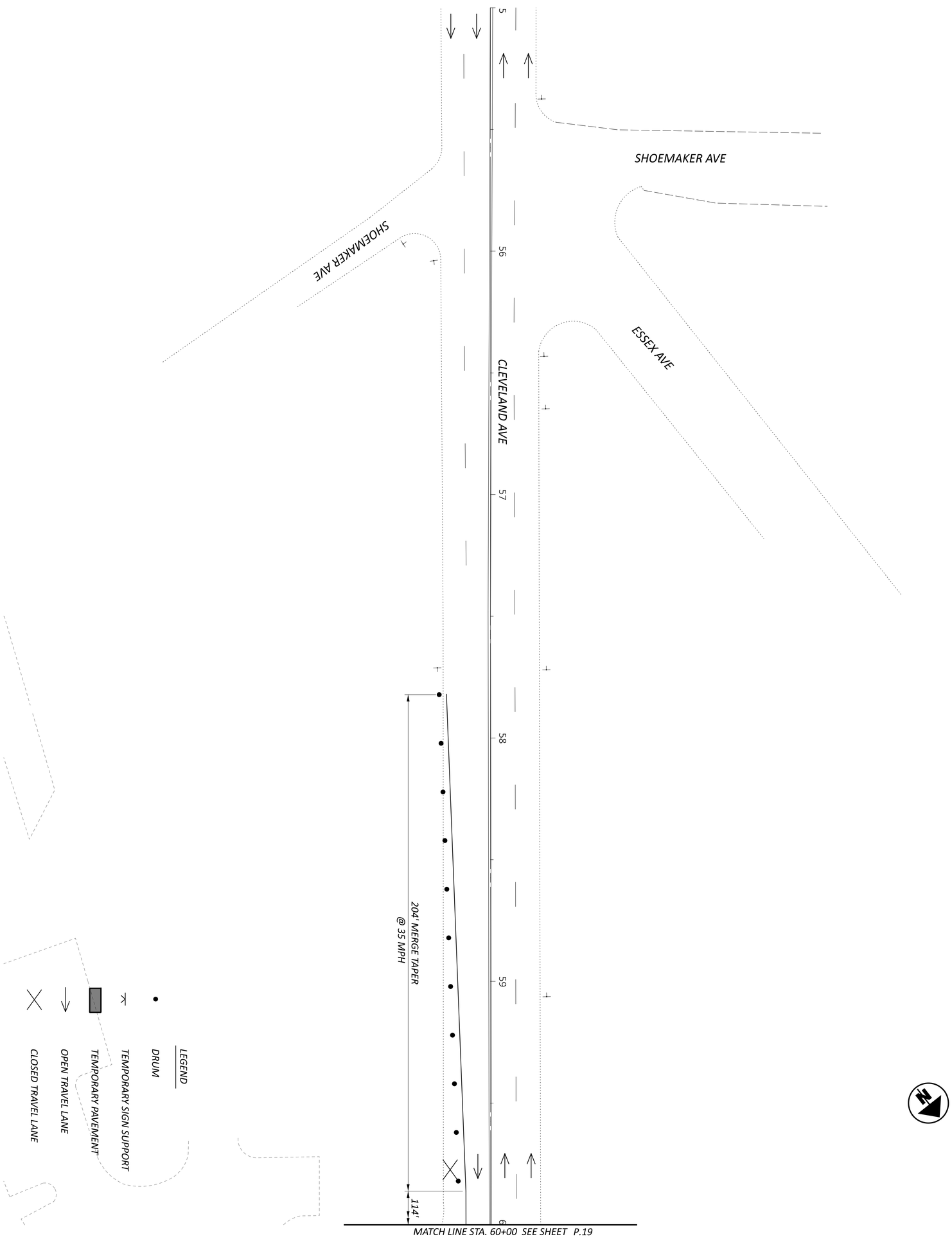
DESIGNER
BDM

REVIEWER
SMM 06/12/26

PROJECT ID
120607

SHEET P.17 | TOTAL 130

MODEL: CLRWX_R003 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:36 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET	TOTAL
P.18	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

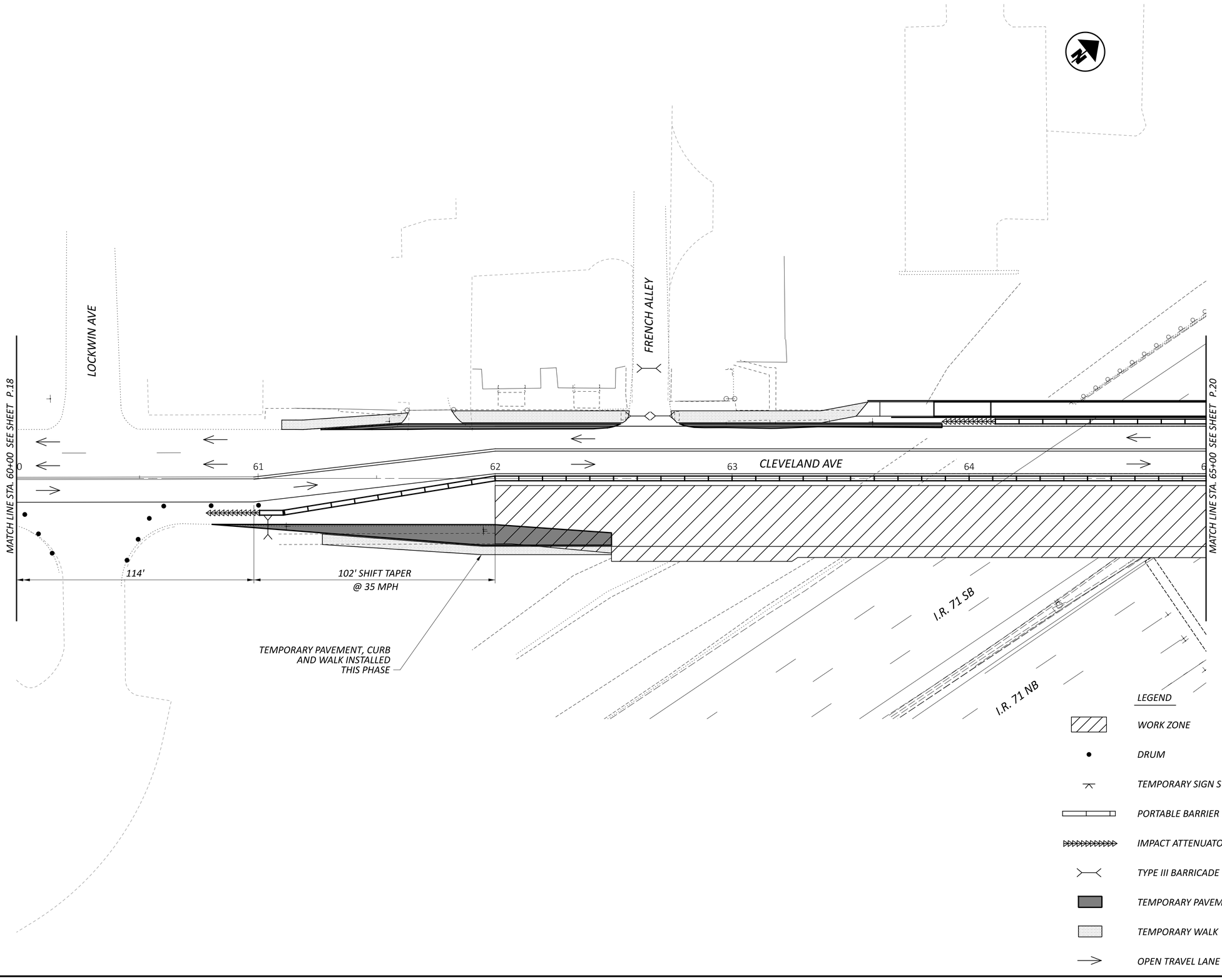
DESIGNER: BDM

DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 1
CLEVELAND AVENUE - STA. 55+00 TO STA. 60+00

HORIZONTAL SCALE IN FEET

0 20 10 40



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 1
CLEVELAND AVENUE - STA. 60+00 TO STA. 65+00

DESIGN AGENCY
EMH&T

DESIGNER
BDM

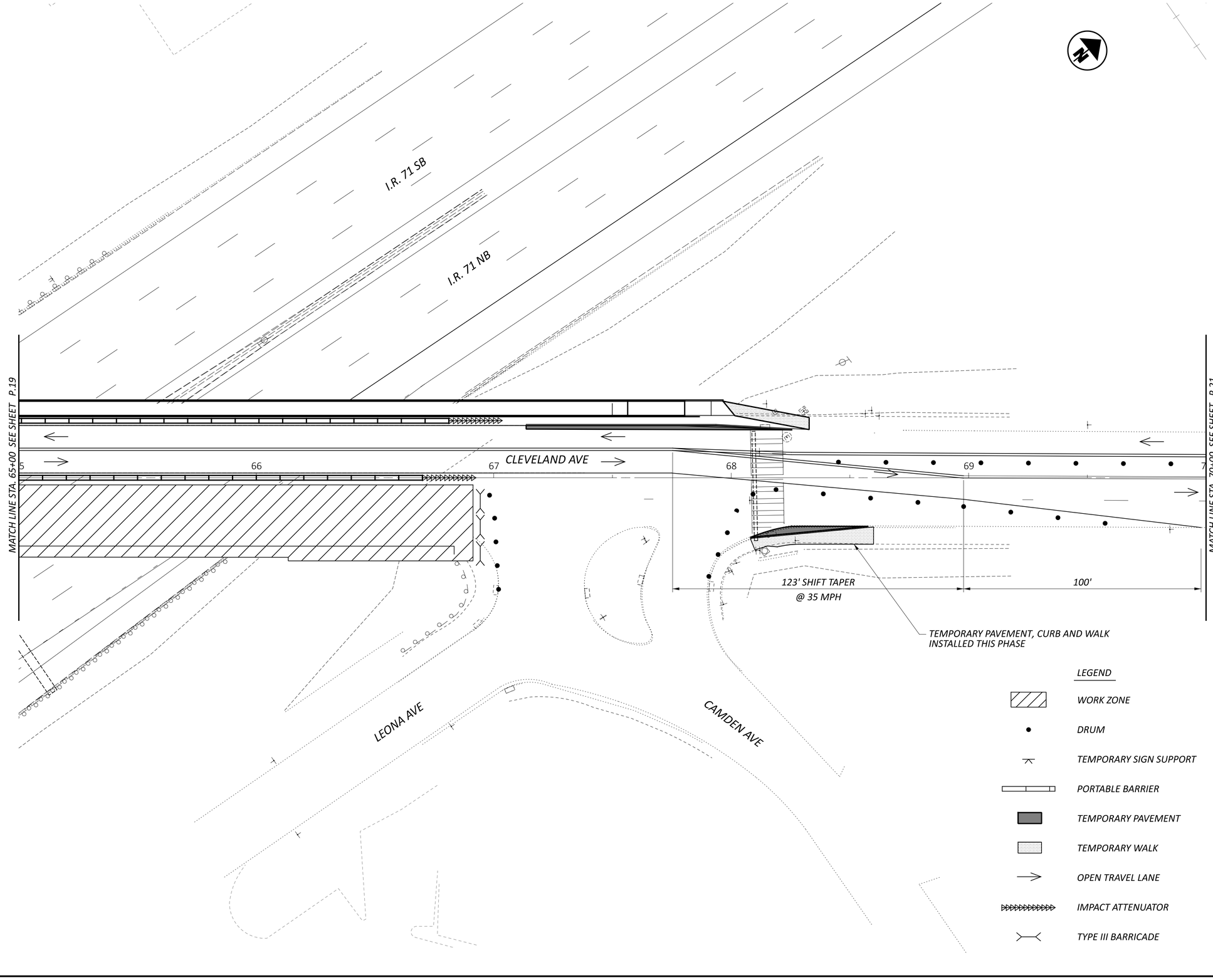
REVIEWER
SMM 06/12/26

PROJECT ID
120607

SHEET P.19 | TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:37 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 1
CLEVELAND AVENUE - STA. 65+00 TO STA. 70+00

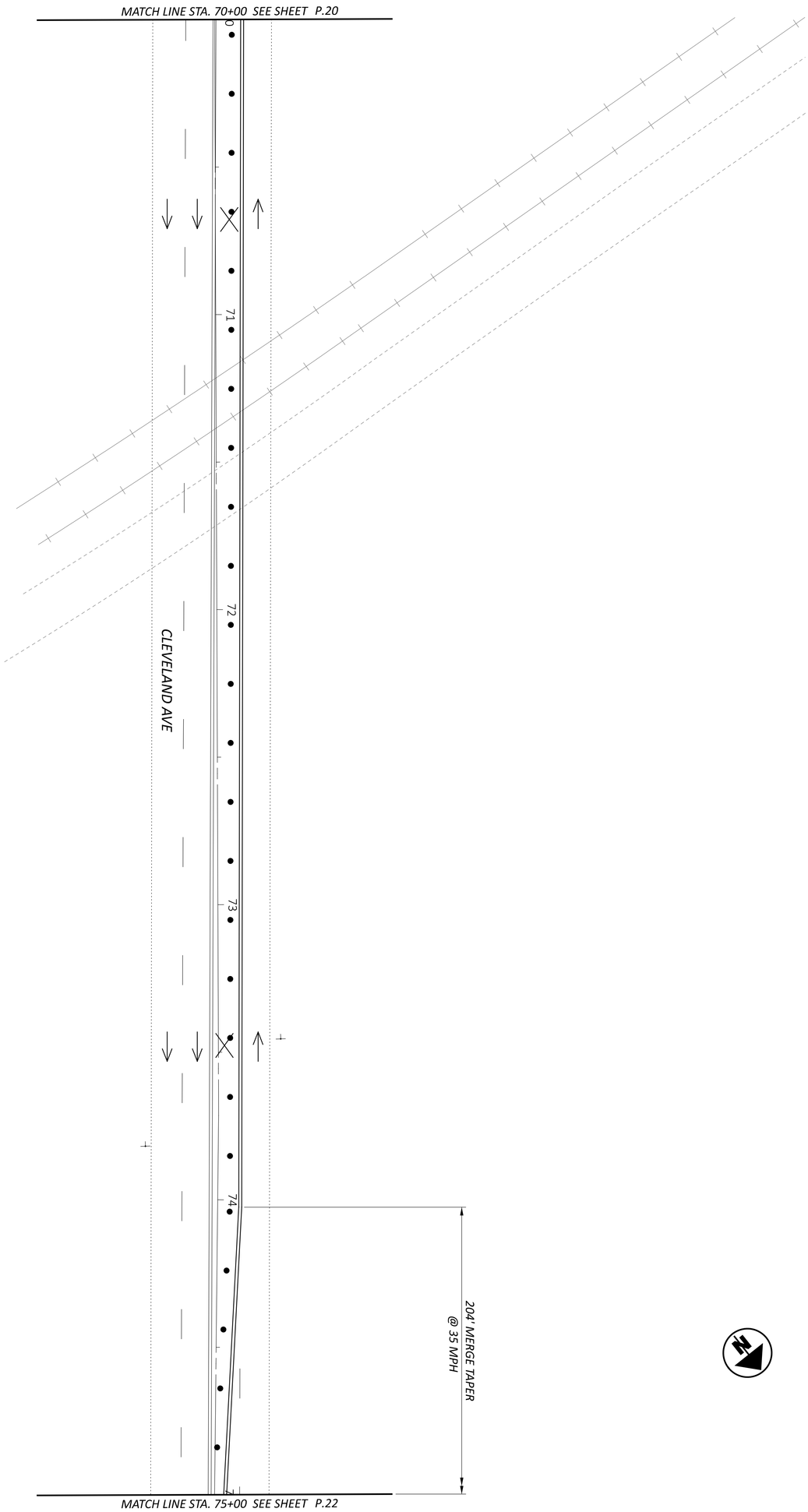
DESIGN AGENCY
EMH&T

DESIGNER	BDM
REVIEWER	SMM 06/12/26
PROJECT ID	120607
SHEET	P.20
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLRWX_R003 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET	TOTAL
P.21	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

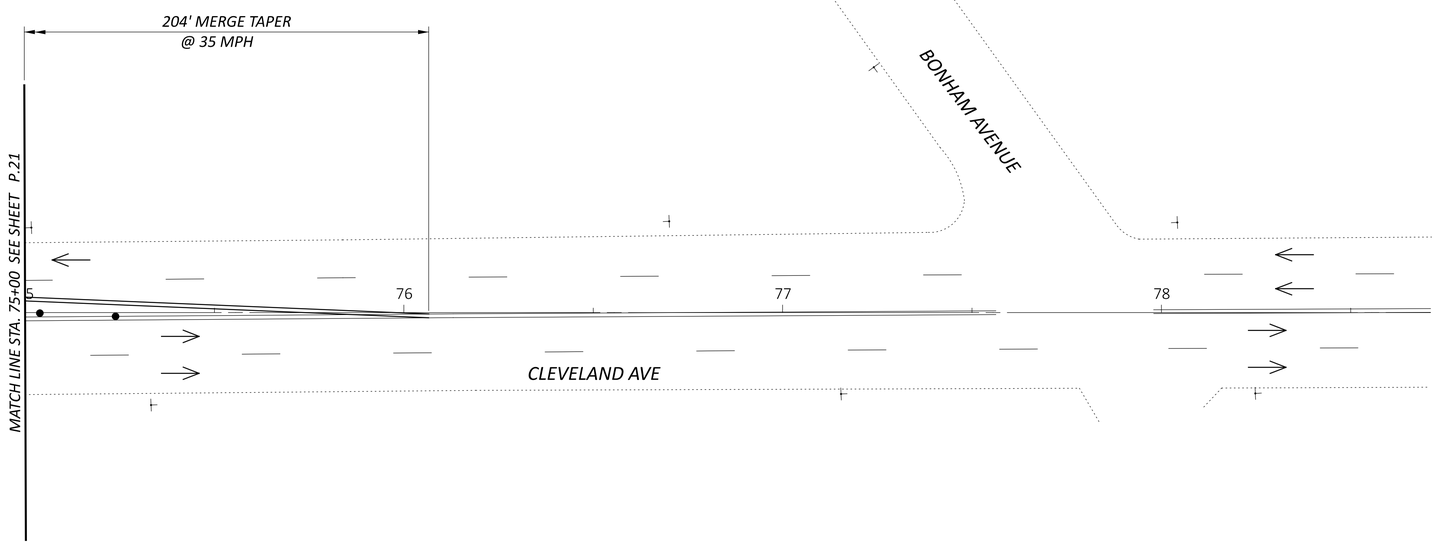
DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 1
CLEVELAND AVENUE - STA. 70+00 TO STA. 75+00

HORIZONTAL SCALE IN FEET

0 20

10 40



N

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 1
CLEVELAND AVENUE - STA. 75+00 TO STA. 78+71.02

LEGEND

- *DRUM*
- *TEMPORARY SIGN SUPPORT*
- *OPEN TRAVEL LANE*

DESIGN AGENCY
EMH&T

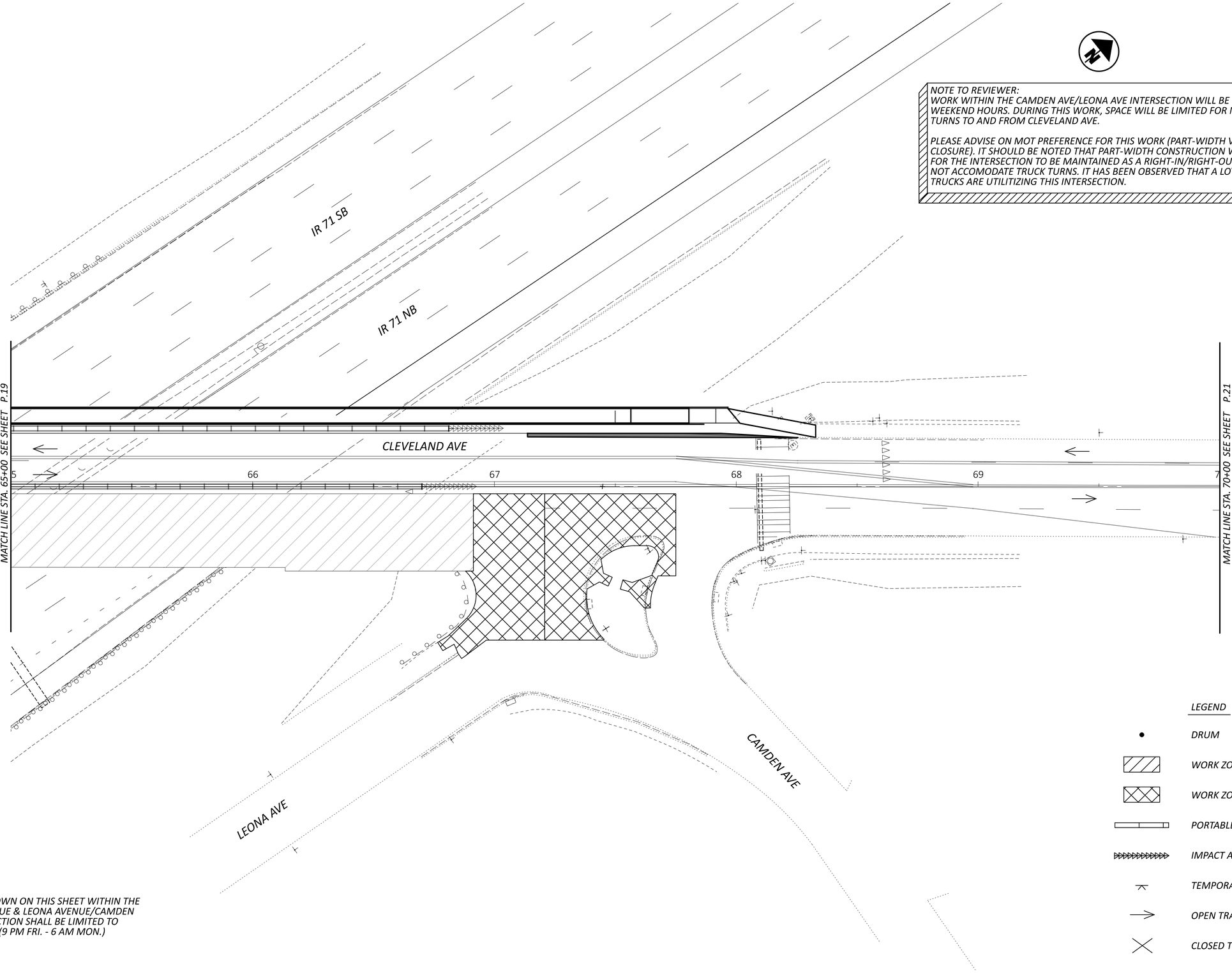
DESIGNER	BDM
REVIEWER	SMM 06/12/26
PROJECT ID	120607
SHEET	P.22
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R004 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLRWX_R003 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024060\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP001.dgn

FRA-3-17.44



NOTE TO REVIEWER:
WORK WITHIN THE CAMDEN AVE/LEONA AVE INTERSECTION WILL BE LIMITED TO WEEKEND HOURS. DURING THIS WORK, SPACE WILL BE LIMITED FOR MAINTAINING TURNS TO AND FROM CLEVELAND AVE.

PLEASE ADVISE ON MOT PREFERENCE FOR THIS WORK (PART-WIDTH VS SIDE STREET CLOSURE). IT SHOULD BE NOTED THAT PART-WIDTH CONSTRUCTION WOULD ALLOW FOR THE INTERSECTION TO BE MAINTAINED AS A RIGHT-IN/RIGHT-OUT, BUT WOULD NOT ACCOMODATE TRUCK TURNS. IT HAS BEEN OBSERVED THAT A LOT OF DUMP TRUCKS ARE UTILITIZING THIS INTERSECTION.

LEGEND

- DRUM
- WORK ZONE - PHASE 1
- WORK ZONE - PHASE 1A
- PORTABLE BARRIER
- IMPACT ATTENUATOR
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE
- CLOSED TRAVEL LANE

NOTES:
1. THE WORK SHOWN ON THIS SHEET WITHIN THE CLEVELAND AVENUE & LEONA AVENUE/CAMDEN AVENUE INTERSECTION SHALL BE LIMITED TO WEEKENDS ONLY (9 PM FRI. - 6 AM MON.)

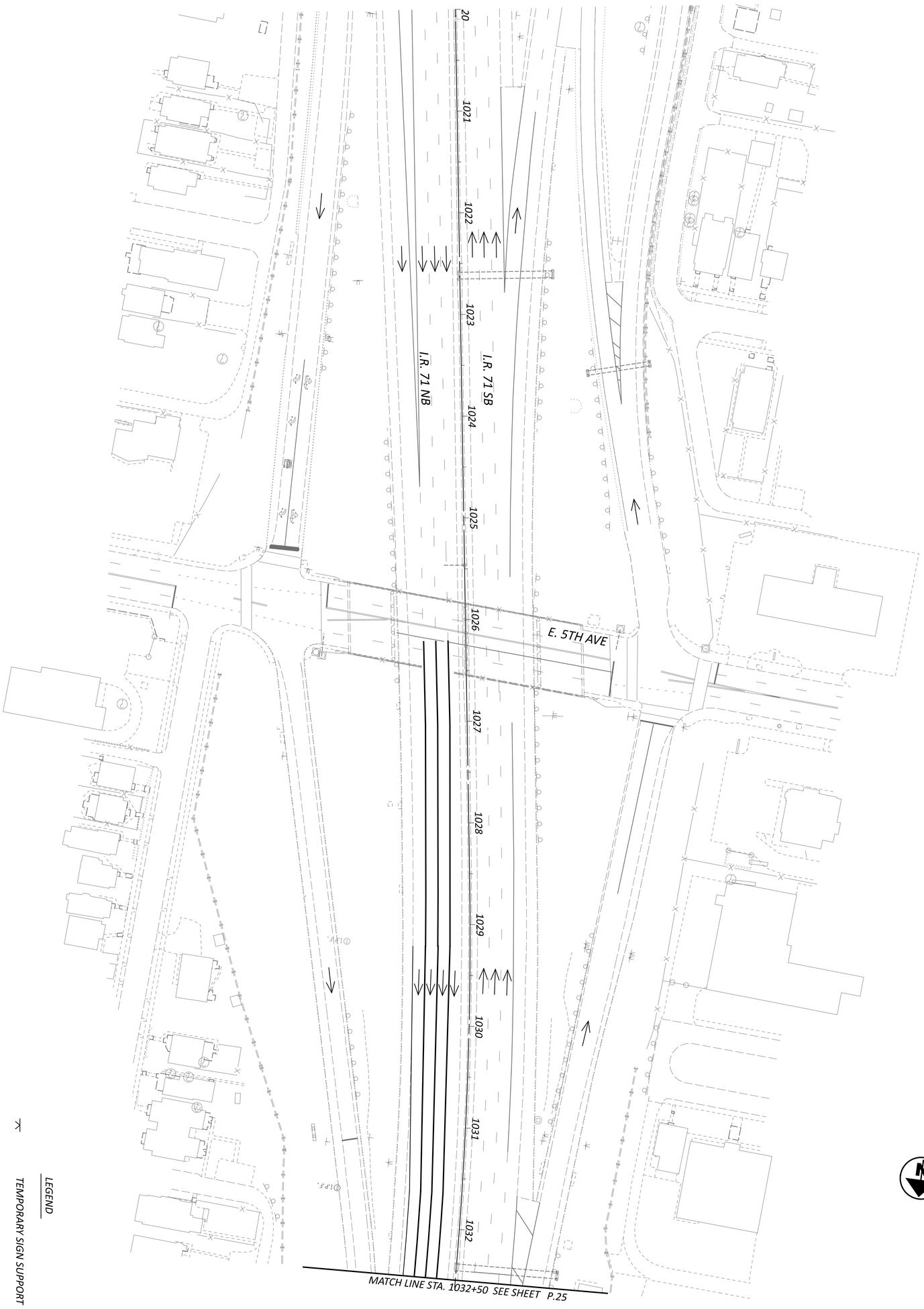
HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 1A
CLEVELAND AVENUE - STA. 65+00 TO STA. 70+00

DESIGN AGENCY
EMH&T

DESIGNER	BDM
REVIEWER	SMM 06/12/26
PROJECT ID	120607
SHEET	P.23
TOTAL	130

MODEL: CLP_I72 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:44 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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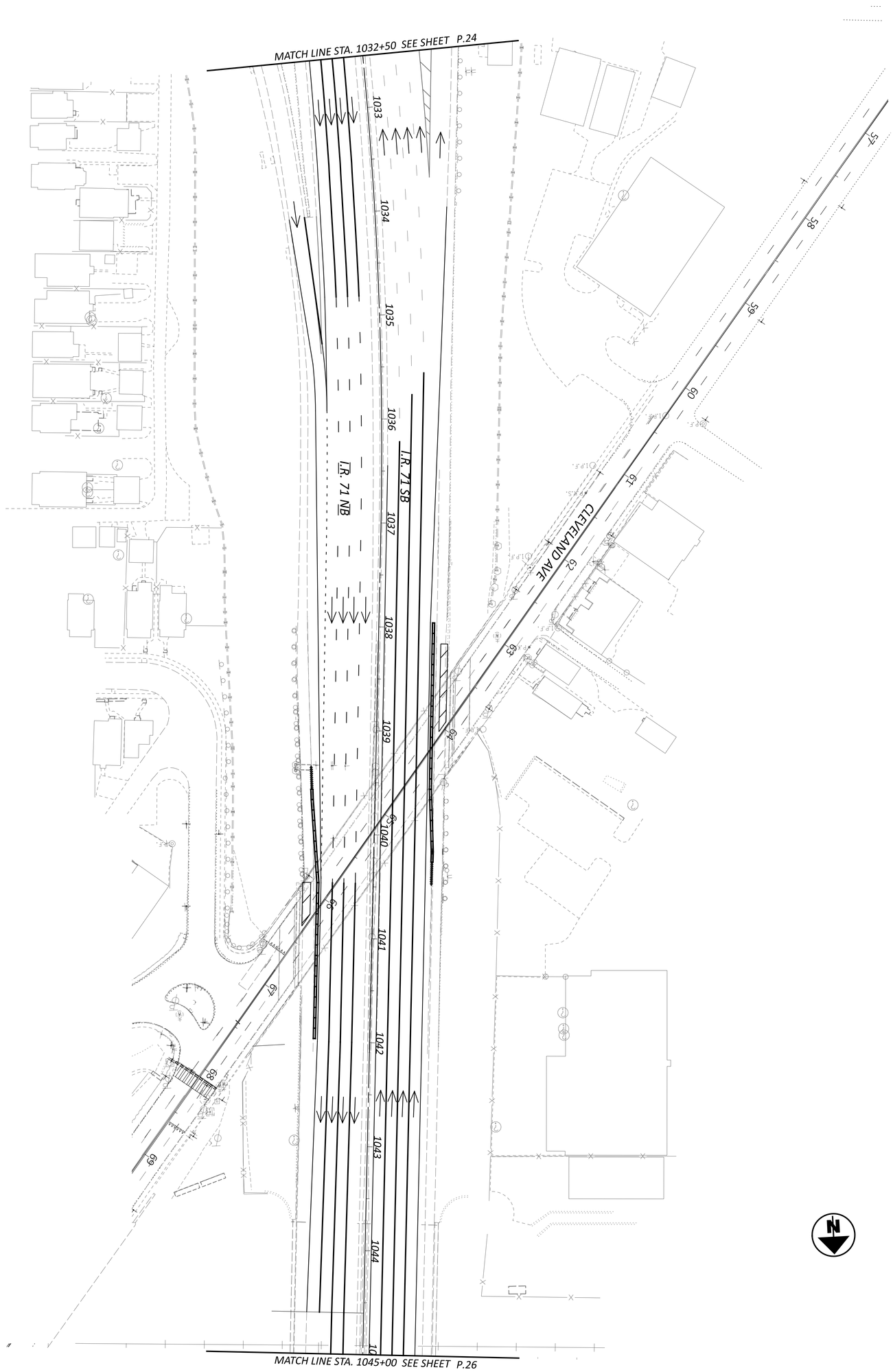
MAINTENANCE OF TRAFFIC PLAN - ABUTMENT WORK PHASE 1
I.R. 71 - STA. 1020+00 TO STA. 1032+50

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.24	130

PROJECT ID: 120607
REVIEWER: SMM 06/12/26
DESIGNER: BDM
DESIGN AGENCY: EMH&T

MODEL: CLP_I72 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

WORK ZONE

TEMPORARY SIGN SUPPORT

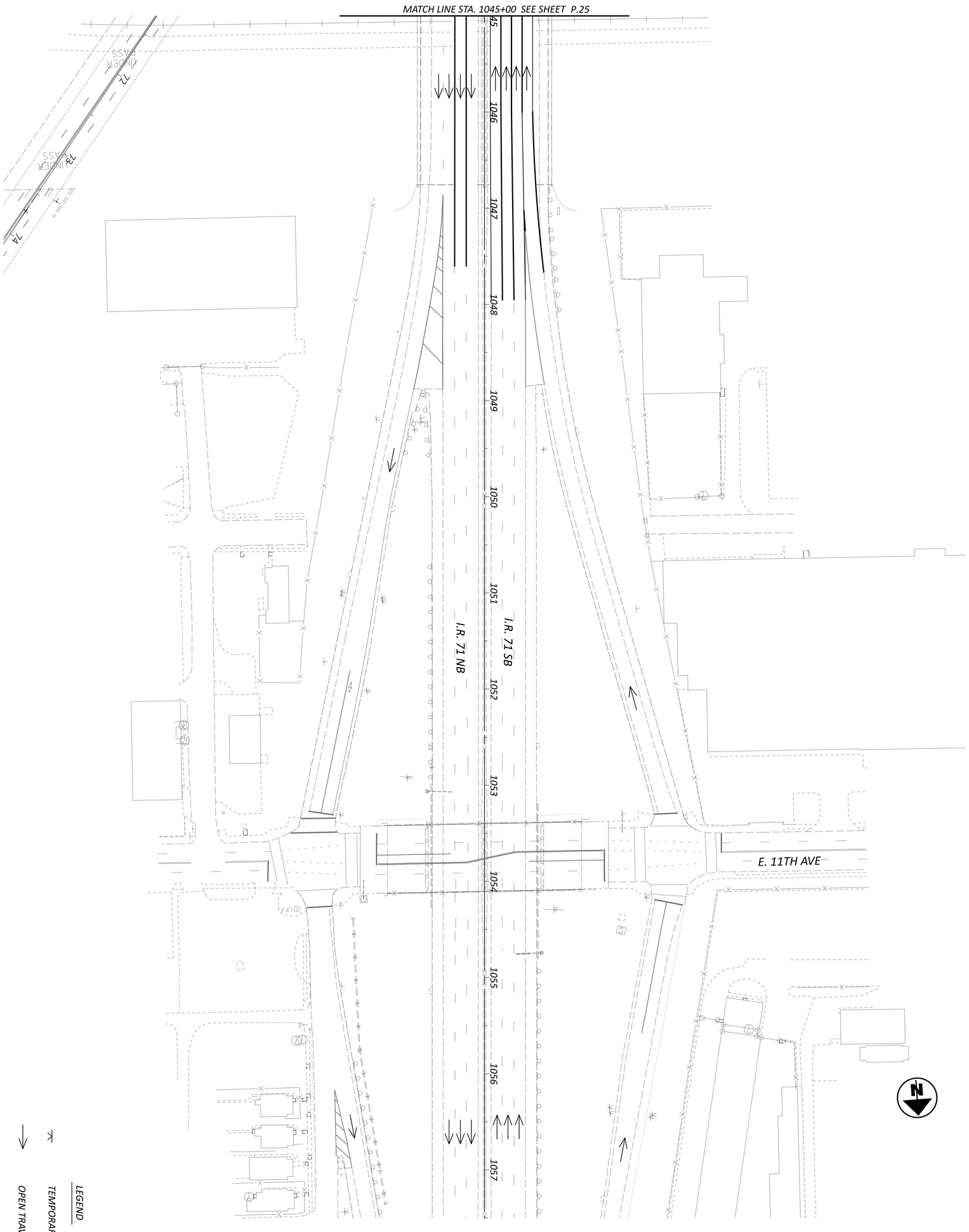
OPEN TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - ABUTMENT WORK PHASE 1
I.R. 71 - STA. 1032+50 TO STA. 1045+00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.25	130	120607	SMM 06/12/26	BDM	EMH&T

MODEL: CLP_I72 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MAINTENANCE OF TRAFFIC PLAN - ABUTMENT WORK PHASE 1
I.R. 71 - STA. 1045+00 TO STA. 1057+50

SHEET	TOTAL
P.26	130

PROJECT ID: 120607

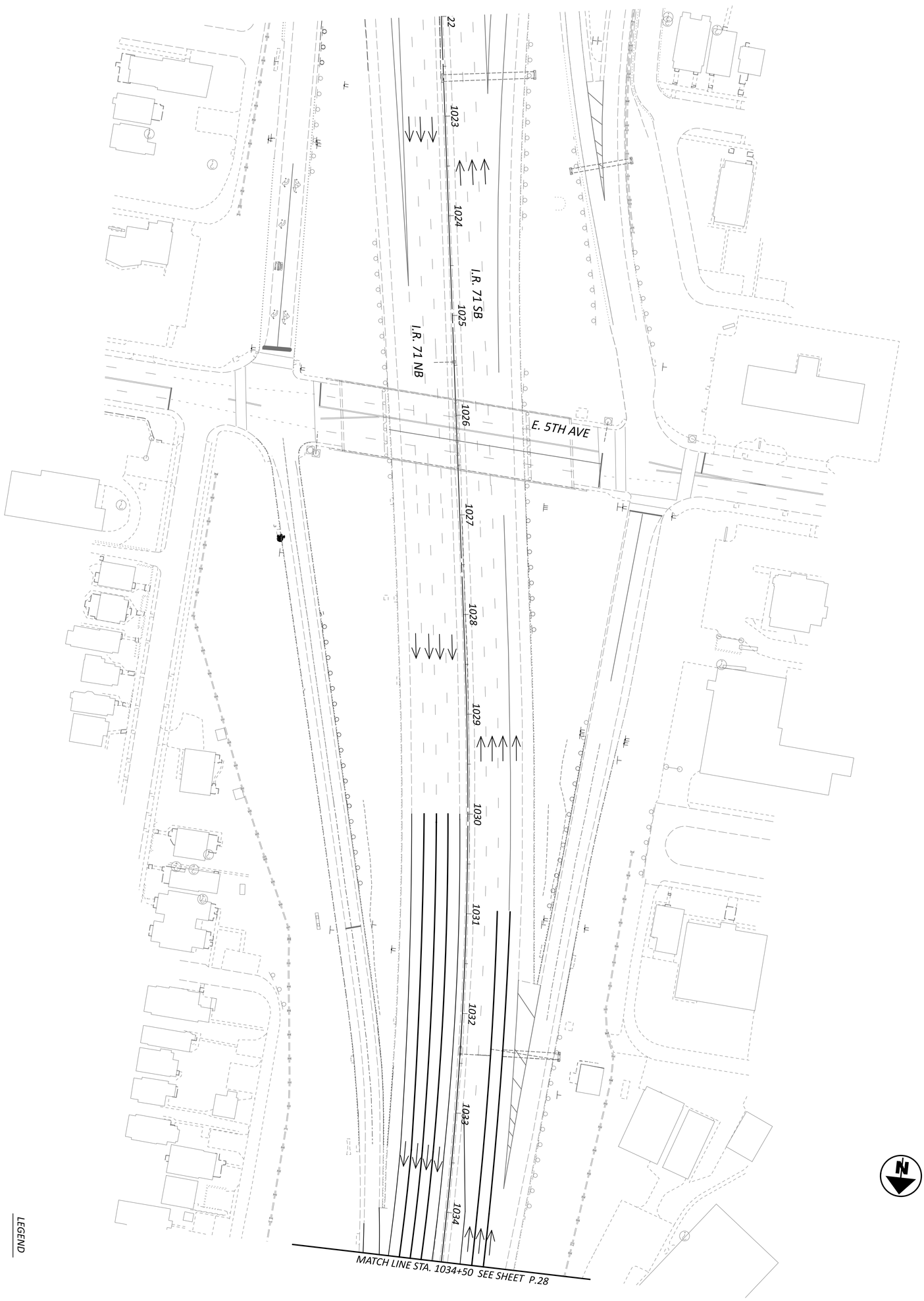
REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I071 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

TEMPORARY SIGN SUPPORT

OPEN TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - PIER WORK PHASES 1 & 2
I.R. 71 - STA. 1022+00 TO STA. 1034+50

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.27	130

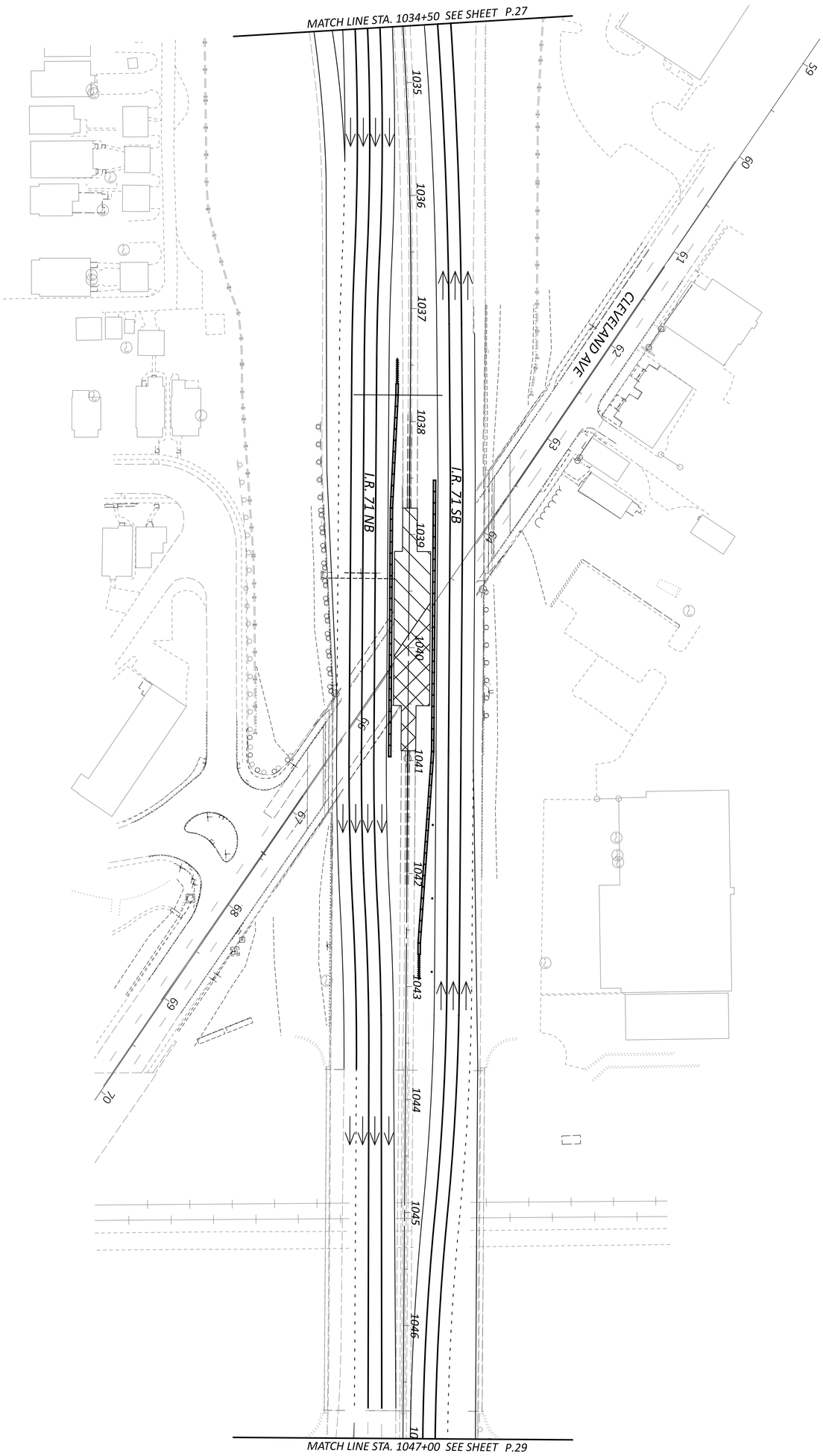
PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T

MODEL: CLP_I071 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

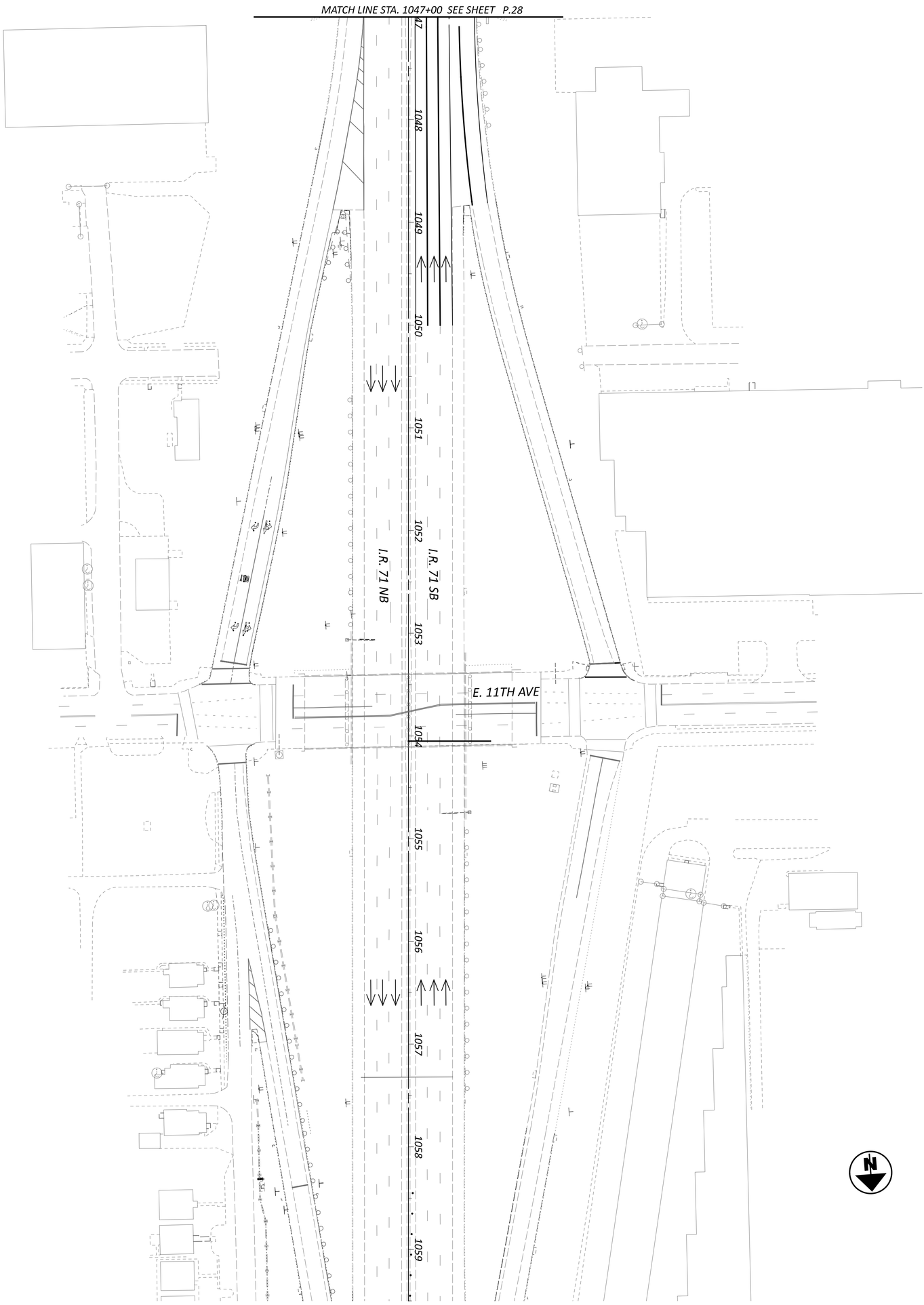
- WORK ZONE - PHASE 1
- WORK ZONE - PHASE 2
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - PIER WORK PHASES 1 & 2
I.R. 71 - STA. 1034+50 TO STA. 1047+00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.28 / TOTAL 130	120607	SMM 06/12/26	BDM	EMH&T

MODEL: CLP_I071 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

TEMPORARY SIGN SUPPORT

OPEN TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - PIER WORK PHASES 1 & 2
I.R. 71 - STA. 1047+00 TO STA. 1059+50

HORIZONTAL SCALE IN FEET
0 50
25 100

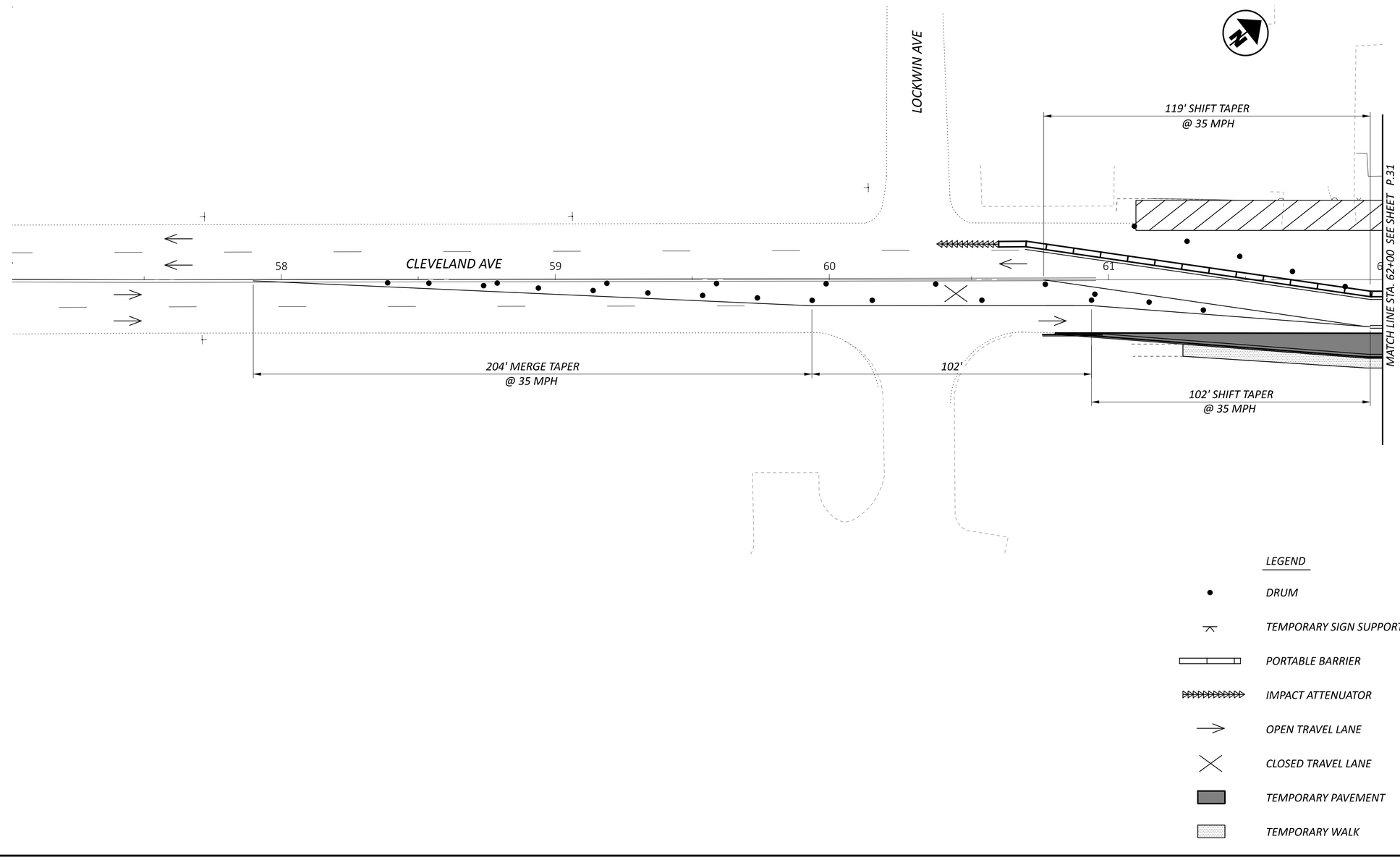
SHEET	TOTAL
P.29	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T



MAINTENANCE OF TRAFFIC PLAN - PHASE 2
CLEVELAND AVENUE - STA. 57+00 TO STA. 62+00

HORIZONTAL SCALE IN FEET
0 10 20 40

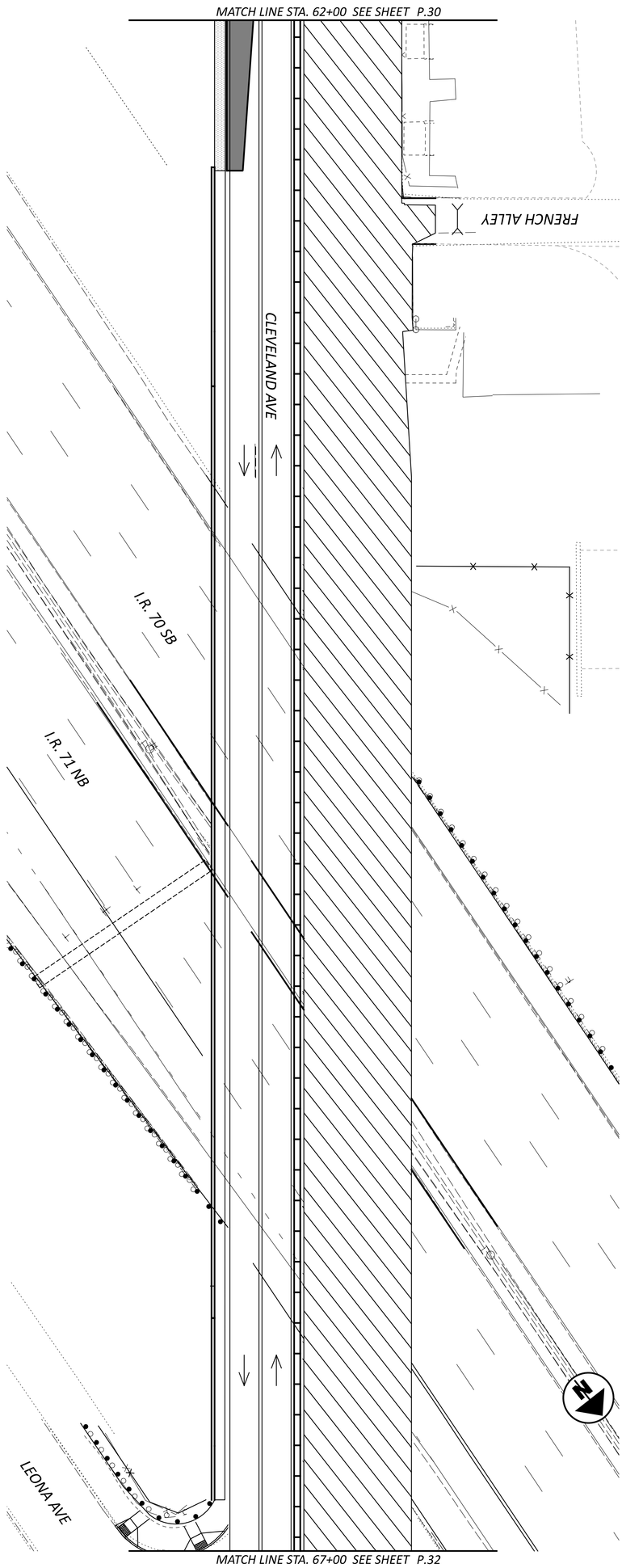
DESIGN AGENCY
EMH&T

DESIGNER BDM
REVIEWER SMM 06/12/26
PROJECT ID 120607
SHEET P.30 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:56 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLRWX_R003 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:58 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET	TOTAL
P.31	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

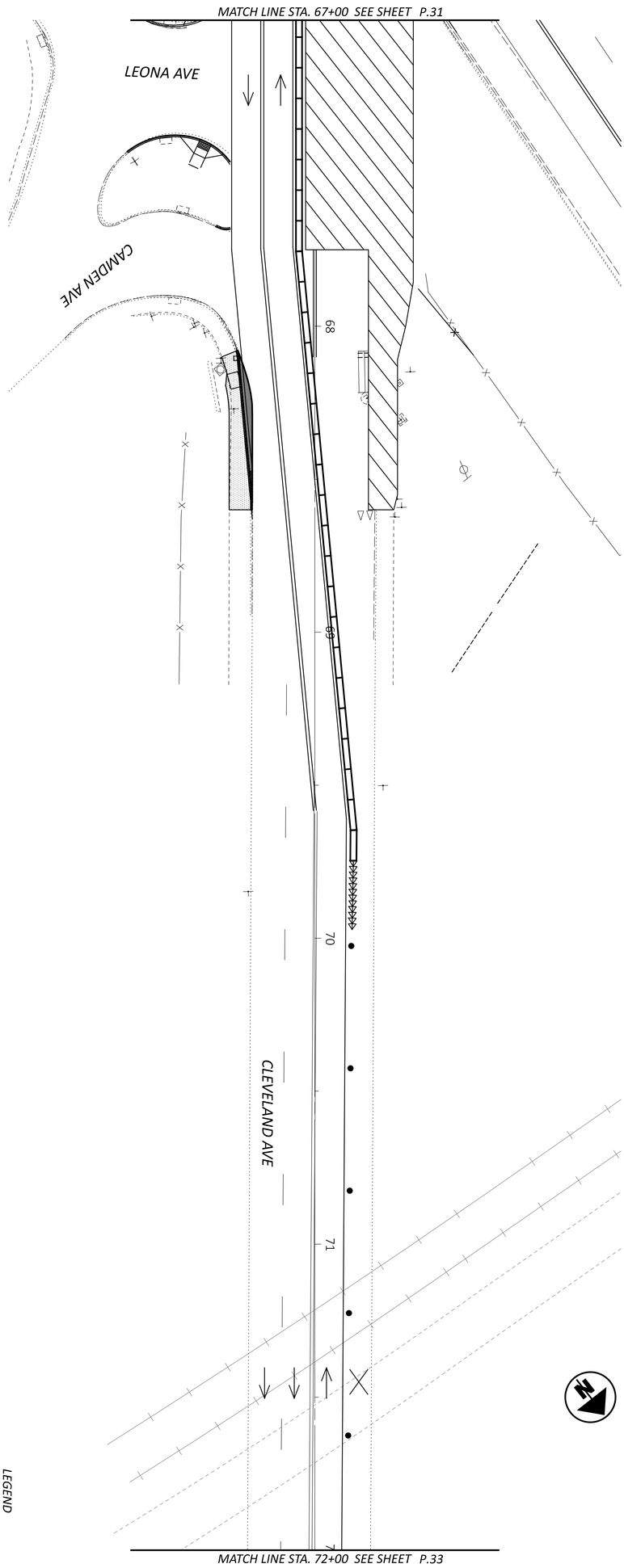
DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 2
CLEVELAND AVENUE - STA. 62+00 TO STA. 67+00

HORIZONTAL SCALE IN FEET

0 20
10 40

MODEL: CLRWX_R003 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:58 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

- DRUM
- TEMPORARY SIGN SUPPORT
- PORTABLE BARRIER
- IMPACT ATTENUATOR
- OPEN TRAVEL LANE
- CLOSED TRAVEL LANE
- TEMPORARY PAVEMENT
- TEMPORARY WALK

SHEET	TOTAL
P.32	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

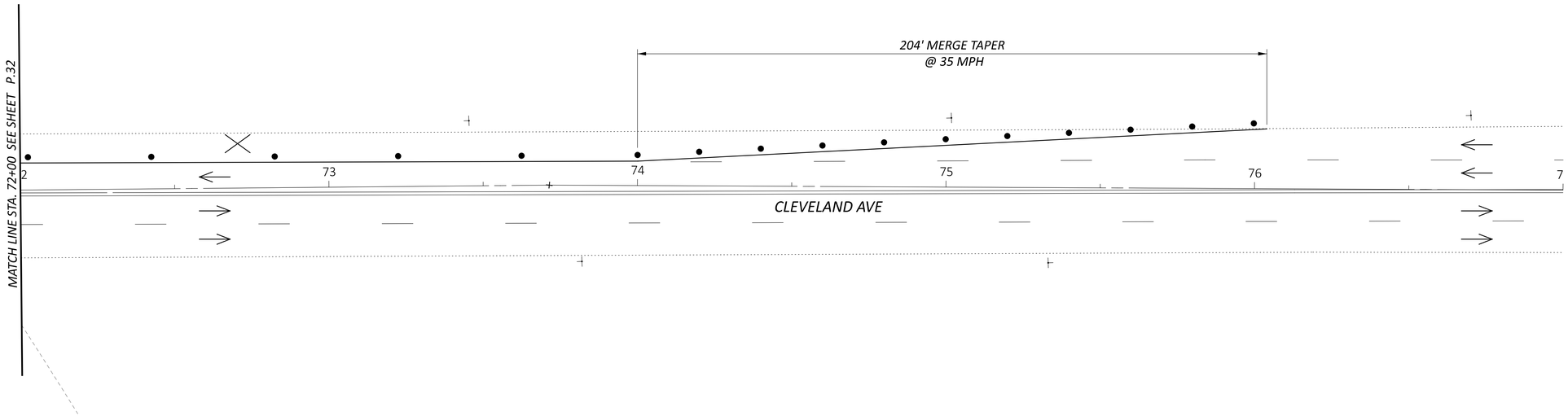
DESIGNER: BDM

DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 2
CLEVELAND AVENUE - STA. 67+00 TO STA. 72+00

HORIZONTAL SCALE IN FEET

0 20
10 40



LEGEND

- DRUM
- TEMPORARY SIGN SUPPORT
- OPEN TRAVEL LANE
- CLOSED TRAVEL LANE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 2
CLEVELAND AVENUE - STA. 72+00 TO STA. 77+00

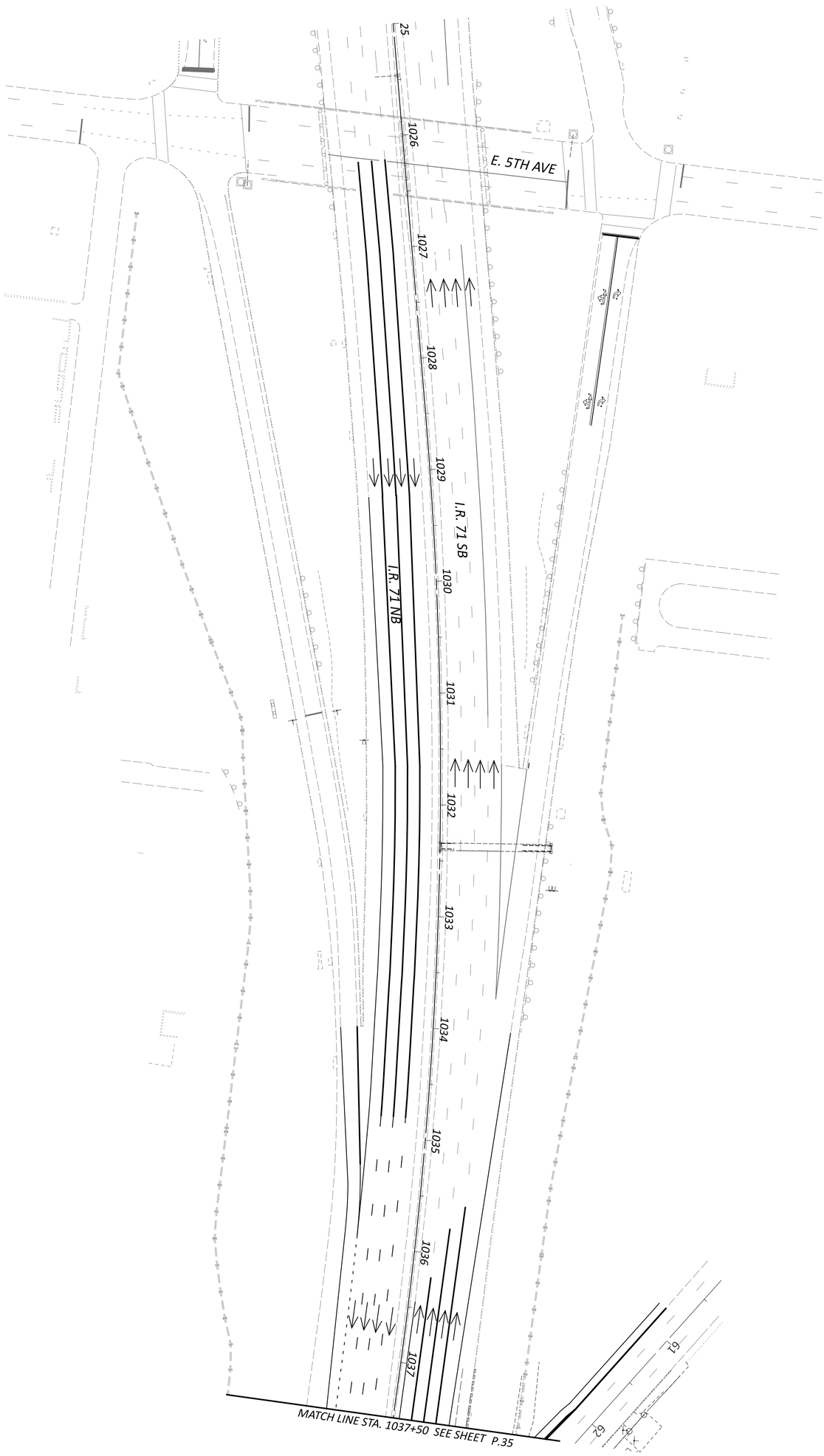
DESIGN AGENCY
EMH&T

DESIGNER	BDM
REVIEWER	SMM 06/12/26
PROJECT ID	120607
SHEET	P.33
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:17:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I071 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP011.dgn



LEGEND

TEMPORARY SIGN SUPPORT

OPEN TRAVEL LANE

MAINTENANCE OF TRAFFIC PLAN - ABUTMENT WORK PHASE 2
I.R. 71 - STA. 1025+00 TO STA. 1037+50

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.34	130

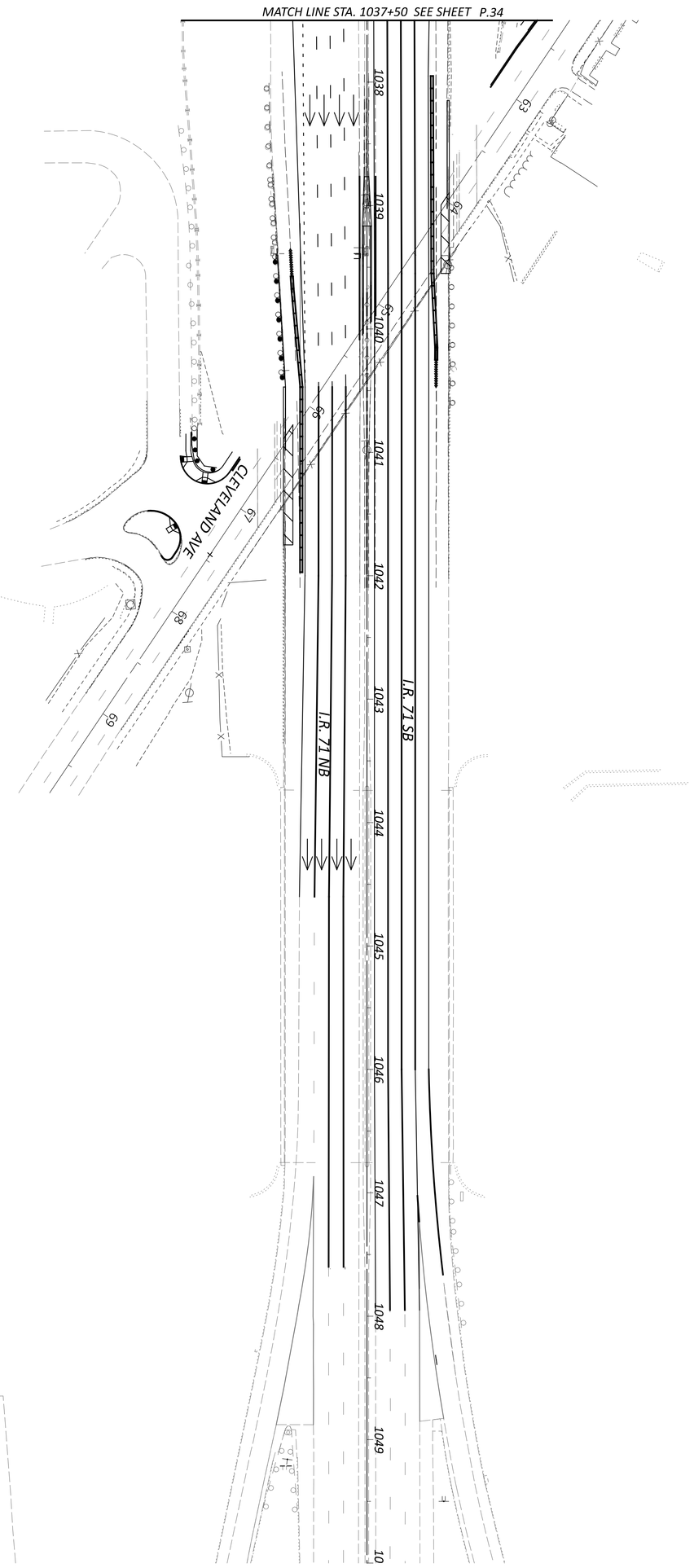
PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: BDM

DESIGN AGENCY: EMH&T

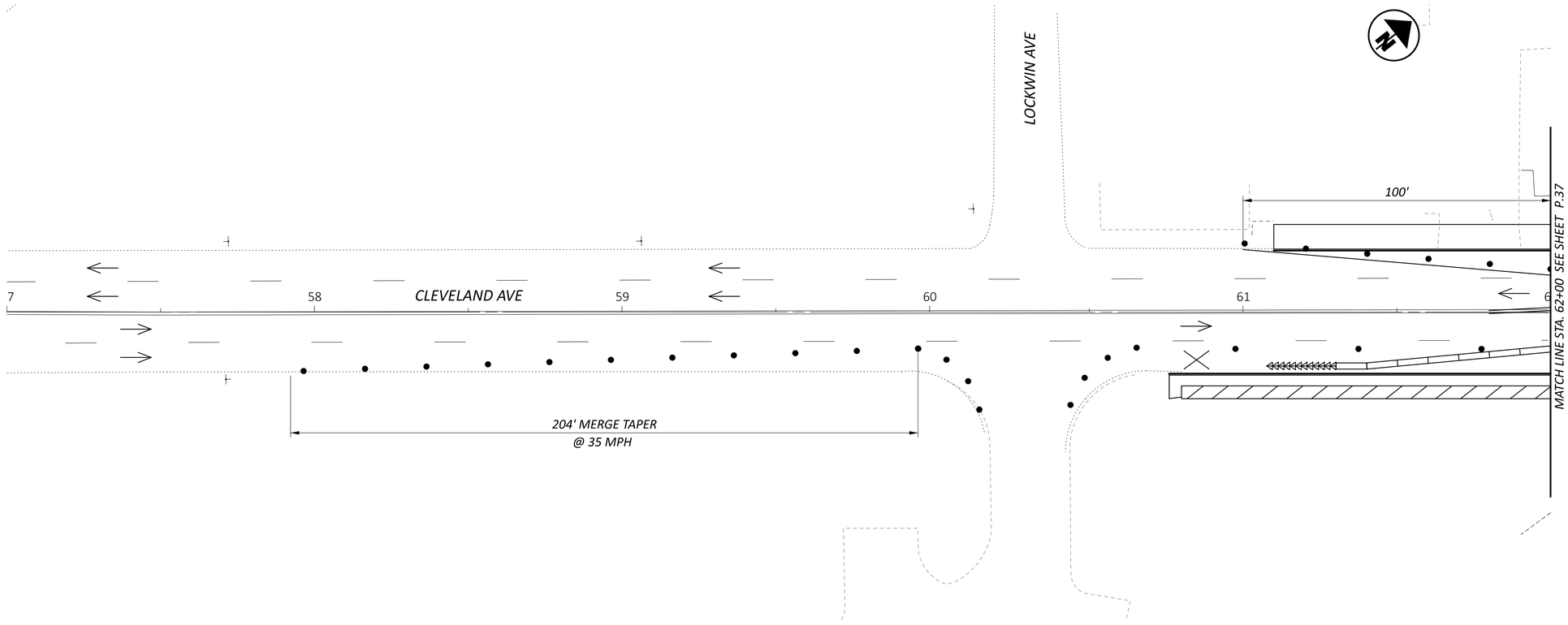
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SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.35	130	120607	SMM 06/12/26	BDM	EMH&T

MAINTENANCE OF TRAFFIC PLAN - ABUTMENT WORK PHASE 2
I.R. 71 - STA. 1037+50 TO STA. 1050+00

HORIZONTAL SCALE IN FEET
0 50
25 100



MAINTENANCE OF TRAFFIC PLAN - PHASE 3
CLEVELAND AVENUE - STA. 57+00 TO STA. 62+00

HORIZONTAL SCALE IN FEET
0 10 20 40

DESIGN AGENCY
EMH&T

DESIGNER
BDM

REVIEWER
SMM 06/12/26

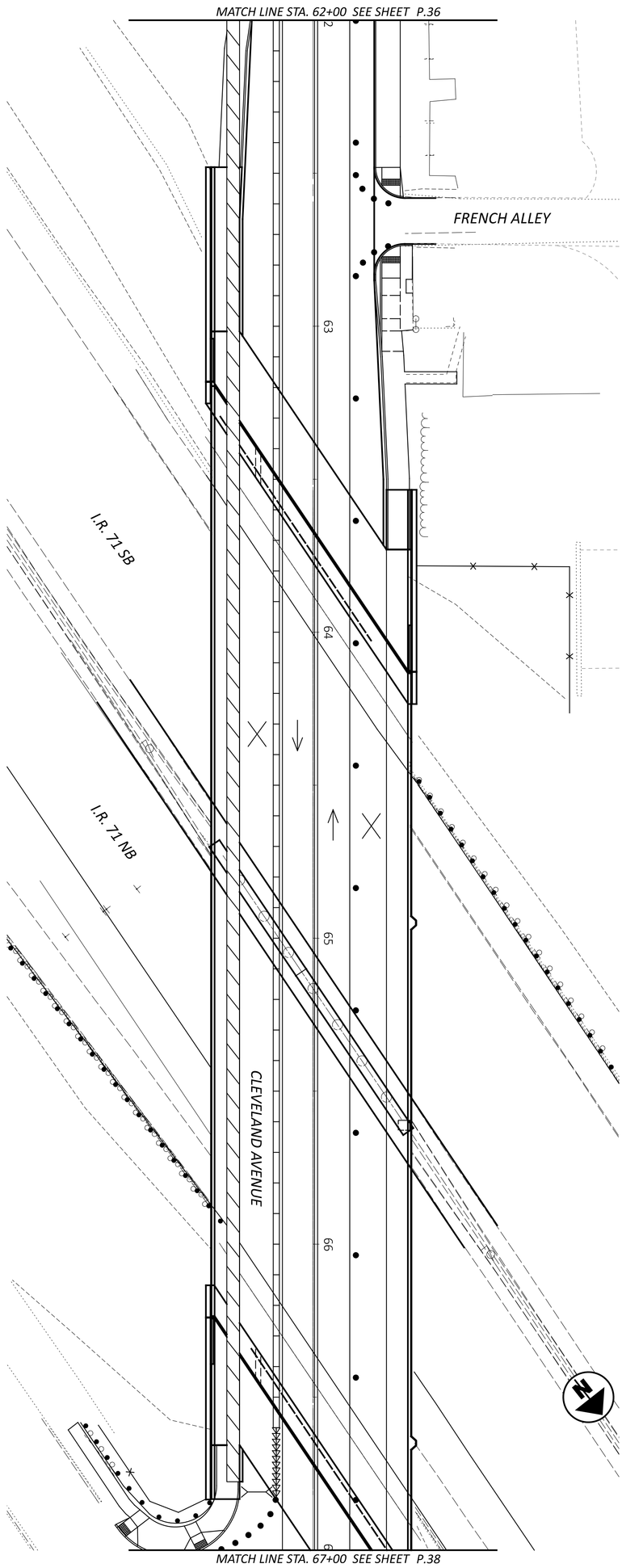
PROJECT ID
120607

SHEET P.36 | TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R4 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLRWX_R4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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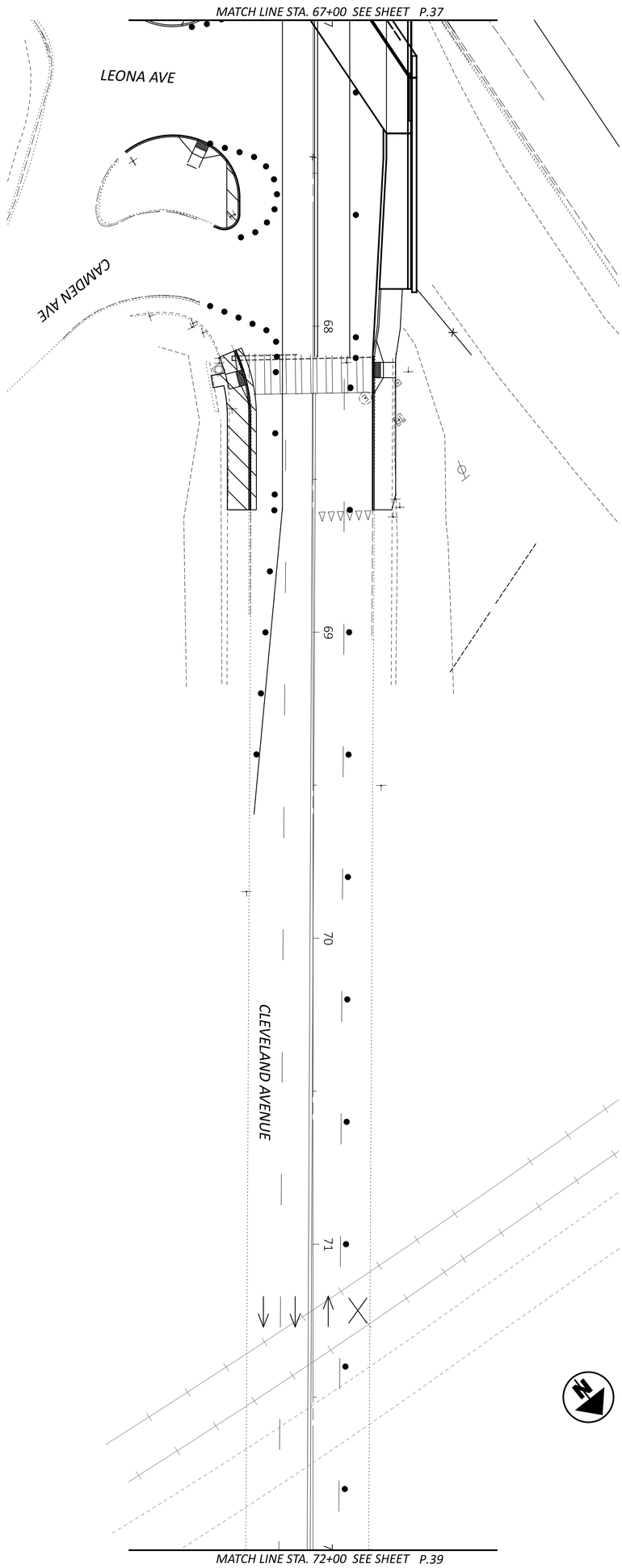


SHEET P.37 TOTAL 130	PROJECT ID 120607	REVIEWER SMM 06/12/26	DESIGNER BDM	DESIGN AGENCY EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 3
CLEVELAND AVENUE - STA. 62+00 TO STA. 67+00

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: CLRWX_R4 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET	TOTAL
P.38	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

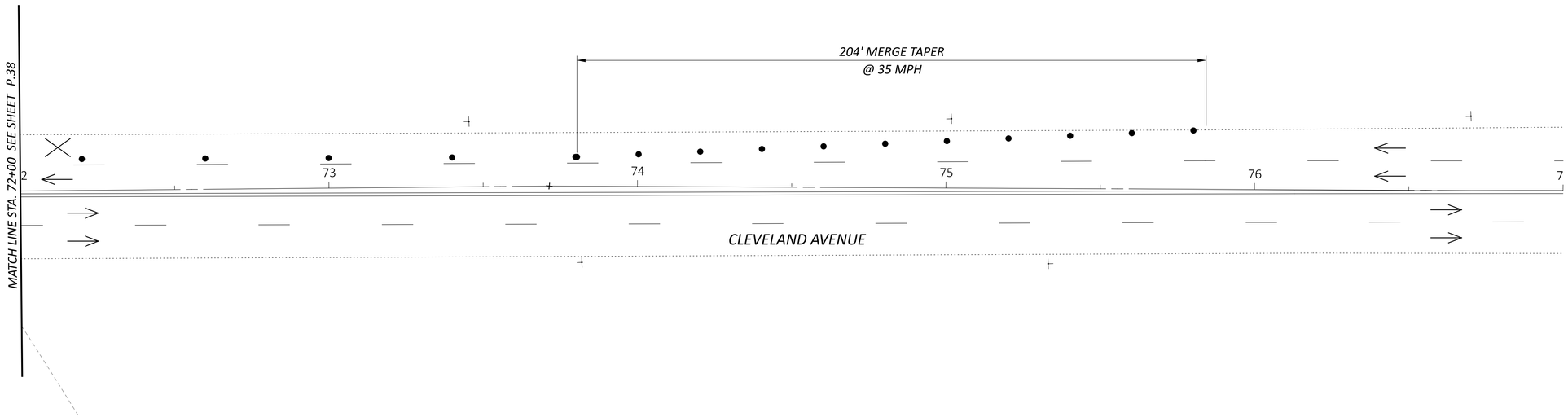
DESIGNER: BDM

DESIGN AGENCY: EMH&T

MAINTENANCE OF TRAFFIC PLAN - PHASE 3
CLEVELAND AVENUE - STA. 67+00 TO STA. 72+00

HORIZONTAL SCALE IN FEET

0 20 10 40



LEGEND

- *DRUM*
- *TEMPORARY SIGN SUPPORT*
- *OPEN TRAVEL LANE*
- *CLOSED TRAVEL LANE*

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 3
CLEVELAND AVENUE - STA. 72+00 TO STA. 77+00

DESIGN AGENCY
EMH&T

DESIGNER BDM
REVIEWER SMM 05/12/26
PROJECT ID 120607
SHEET P.39 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R4 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\0\ODOT\120607\400-Engineering\MOT\Sheets\120607_MP006.dgn

FOR CONC BARRIER MISC: CONC BARRIER TRANSITION TRANSITION SCD MC-9.4, SEE DETAILS ON SHEETS P.68 AND P.69

LEGEND

PAVEMENT OVERLAY

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN - IR 71
STA 277+76.80 TO STA 301+53.81

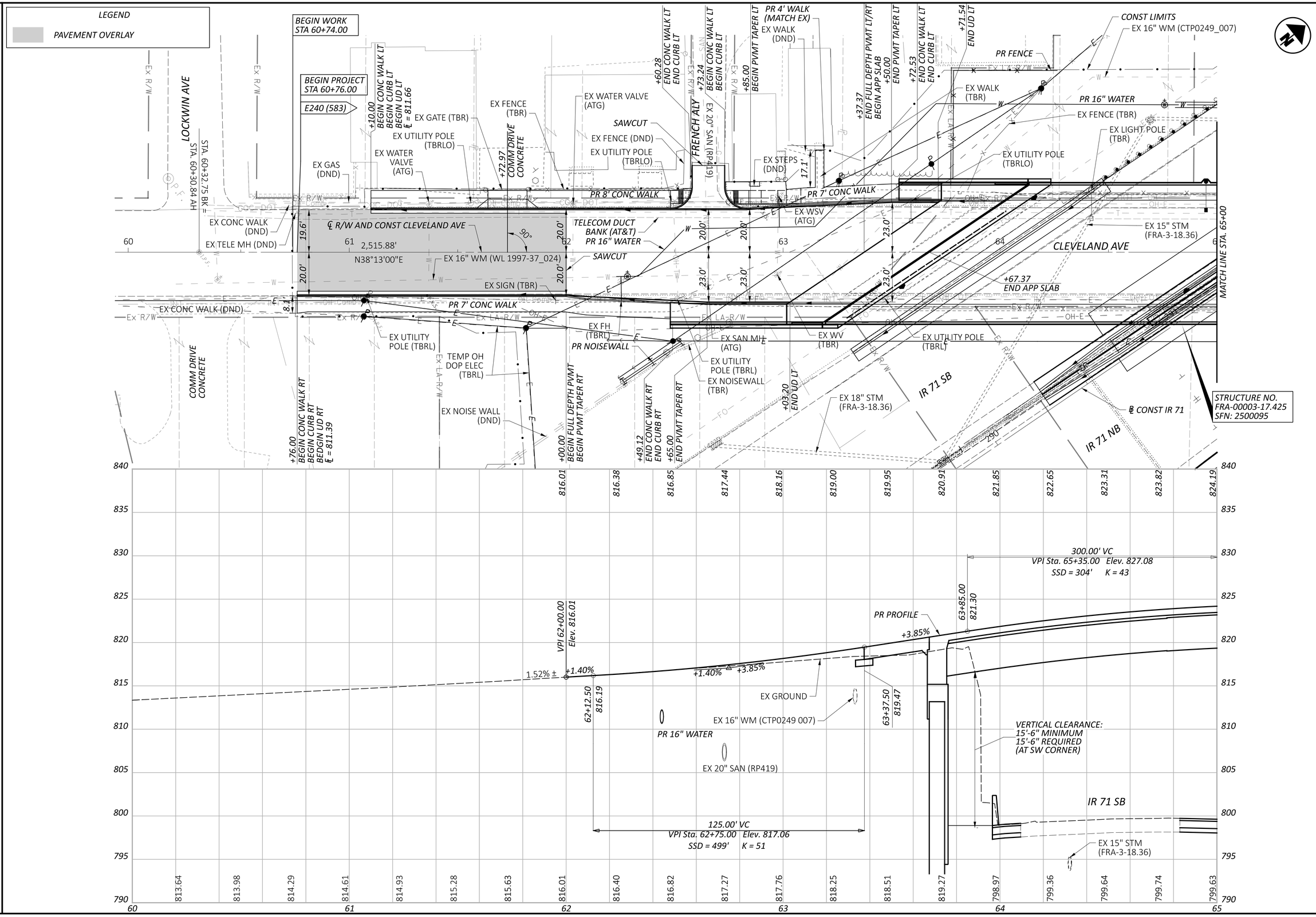
FRA-3-17.44

DESIGN AGENCY: EMH&T
DESIGNER: BLM
REVIEWER: SJB 06/12/26
PROJECT ID: 120607
SHEET: P.40 TOTAL: 130

MODEL: IR 71 - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_GP002.dgn

PLAN AND PROFILE - CLEVELAND AVE
BEGIN WORK TO STA. 65+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40



DESIGN AGENCY
EMH&T

DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.41 TOTAL 130

FRA-3-17.44

MODEL: Cleveland Ave - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\400-Engineering\Roadway\Sheets\120607_GP001.dgn

FOR STORM SEWER INFORMATION SEE SHEETS P.58 AND P.59

IR 71 SB
IR 71 NB
EX 16" WM (CTP0249 007) (TBA)
PR 16" WATER MAIN IN 30" CASING PIPE
STRUCTURE NO. FRA-00003-17.425 SFN: 2500095
EX 15" STM (FRA-3-18.36)
EX UTILITY POLE (TBR)
℄ CONST IR 71
TELECOM DUCT BANK (AT&T)
MATCH LINE STA. 65+00
STA 65+29.56 ℄ R/W AND CONST CLEVELAND AVE = STA 291+57.95 ℄ R/W IR 71
CLEVELAND AVE
24.0'
+71.28 BEGIN APP SLAB
EX LIGHT POLE (TBR)
EX SIGN (TBR)
EX UTILITY POLE (TBRLO)
PR CI
EX CI (TBR)
EX CURB (TBR)
+37.26 BEGIN UD RT
EX GUARDRAIL (TBR)
+83.31 BEGIN CONC WALK RT
BEGIN CURB RT
PR FENCE
PR GUARDRAIL, TYPE MGS
CONNECT GUARDRAIL TO EXISTING STA 66+58.34, 75.94' RT
CONST LIMITS
EX NOISE WALL (DND)
EX GUARDRAIL (DND)
+66+60.70, 80.01' RT END CONC WALK RT
MATCH EX
4' CONC WALK
LEONA AVE
+93.08, 66.28' RT END CURB RT
SAWCUT
34.9' RT
EX 8" WM (CTP0249 007)
BTA, TYPE 2
EX SIGN (DND)
+42.88, 61.21' RT BEGIN CURB RT
CAMDEN AVE
EX 6" WM (C.1 022)
+01.28 BEGIN FULL DEPTH PVMT LT/RT END APP SLAB
+07.82 BEGIN UD LT
+45.00 BEGIN PVMT TAPER LT
+75.00 END FULL DEPTH PAVMT LT/RT
+87.80 BEGIN CONC WALK LT BEGIN CURB LT
+10.00 END PVMT TAPER LT
EX FENCE (DND)
EX FENCE (TBR)
PR FENCE
EX WV (TBR)
EX PED SIGNAL (DND)
EX 24" STM (FRA-3-18.36)
EX TELE PEDESTAL (TBRLO)
EX WV (DND)
EX CURB (TBR)
EX UTILITY POLE (TBRLO)
EX TELE MH (ATGBO)
SAWCUT
℄ R/W AND CONST CLEVELAND AVE
+07.13, 23.38' RT BEGIN CURB RT BEGIN CONC WALK RT BEGIN UD RT ℄ = 814.96
EX SIGNAL POLE (DND)
EX UTILITY POLE (TBR)
EX CURB (TBR)
+60.00, 28.00' RT END CURB RT END CONC WALK RT END UD RT ℄ = 814.34
END PROJECT STA 68+60.00
E240 (583)
+60.00 END CONC WALK LT/RT END CURB LT/RT END UD LT ℄ = 814.00
END WORK STA 69+58.00
EX SIGNS (DND)
EX 8" WM (CTP0249_007) (DND)
+67.44, 32.28' RT END CURB RT
EX WV (DND)
EX UTILITY POLE & GUY WIRE (TBR)
TEMP OH DOP ELEC (TBRL)
EX 24" STM (FRA-3-18.36)
IR 71 NB

LEGEND
PAVEMENT OVERLAY
8" CONCRETE WALK

HORIZONTAL SCALE IN FEET
0 10 20 40

300.00' VC
VPI Sta. 65+35.00 Elev. 827.08
SSD = 304' K = 43
+3.85%
-3.16%
66+85.00
822.34
PR PROFILE
VPI 67+74.99
Elev. 819.49
-3.16%
-2.36% ±
EX GROUND

PLAN AND PROFILE - CLEVELAND AVE
STA. 65+00.00 TO END WORK

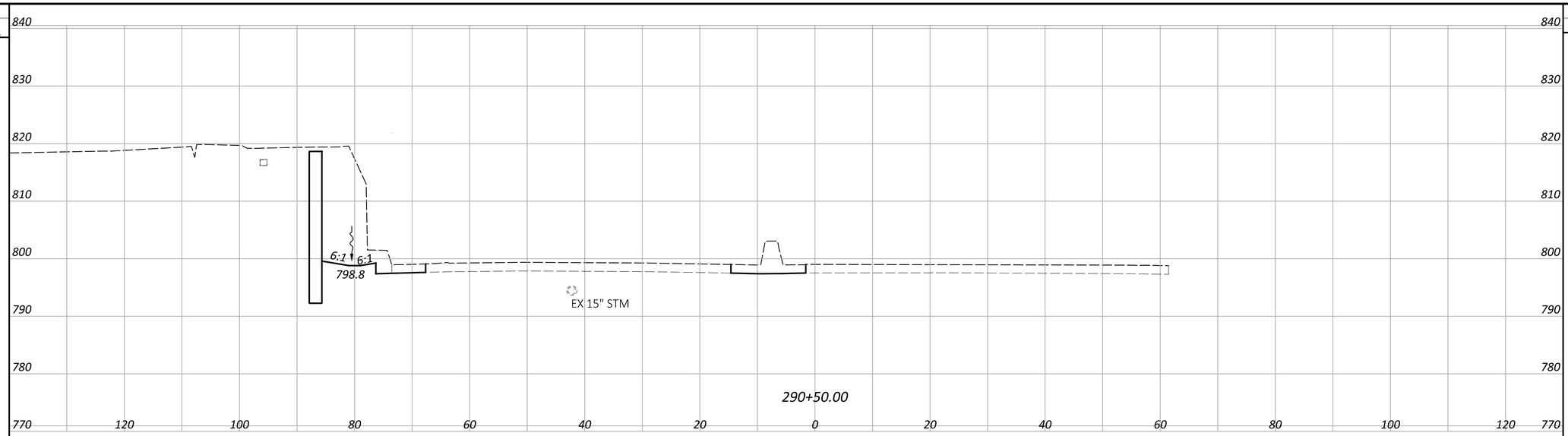
DESIGN AGENCY
EMH&T

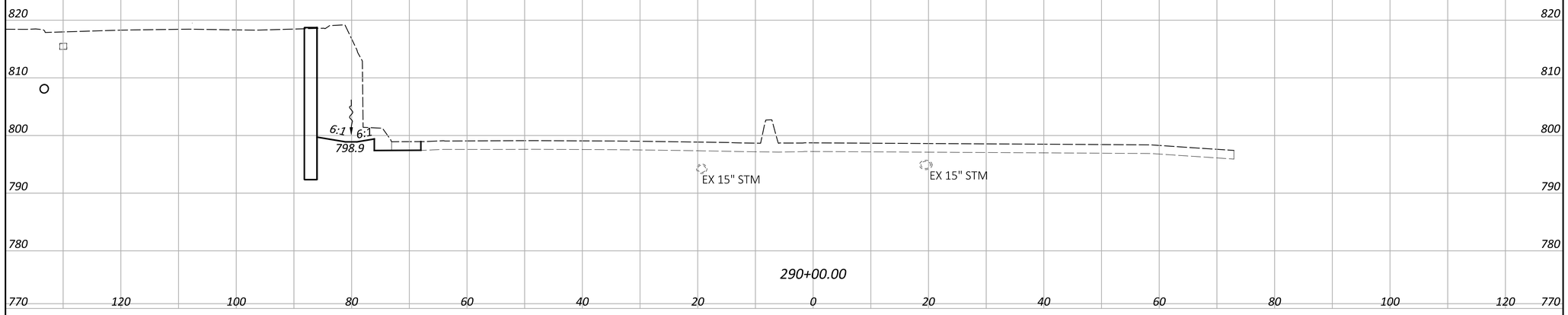
DESIGNER	BLM
REVIEWER	SJB 06/12/26
PROJECT ID	120607
SHEET	P.42
TOTAL	130

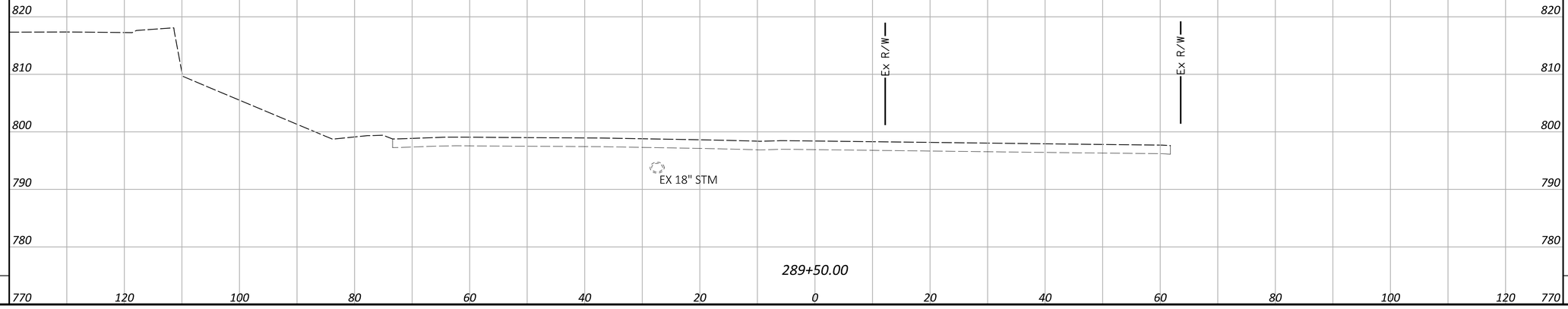
FRA-3-17.44

MODEL: Cleveland Ave - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\400-Engineering\Roadway\Sheets\120607_GP001.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
		0	0		
		0	0		
		0	0		
SHEET TOTAL		SHEET TOTALS			







CROSS SECTIONS - IR-71
STA 289+50.00 TO STA 290+50.00

DESIGN AGENCY: EMH&T

DESIGNER: BLM

REVIEWER: SJB 06/12/26

PROJECT ID: 120607

SHEET: P.43 TOTAL: 130

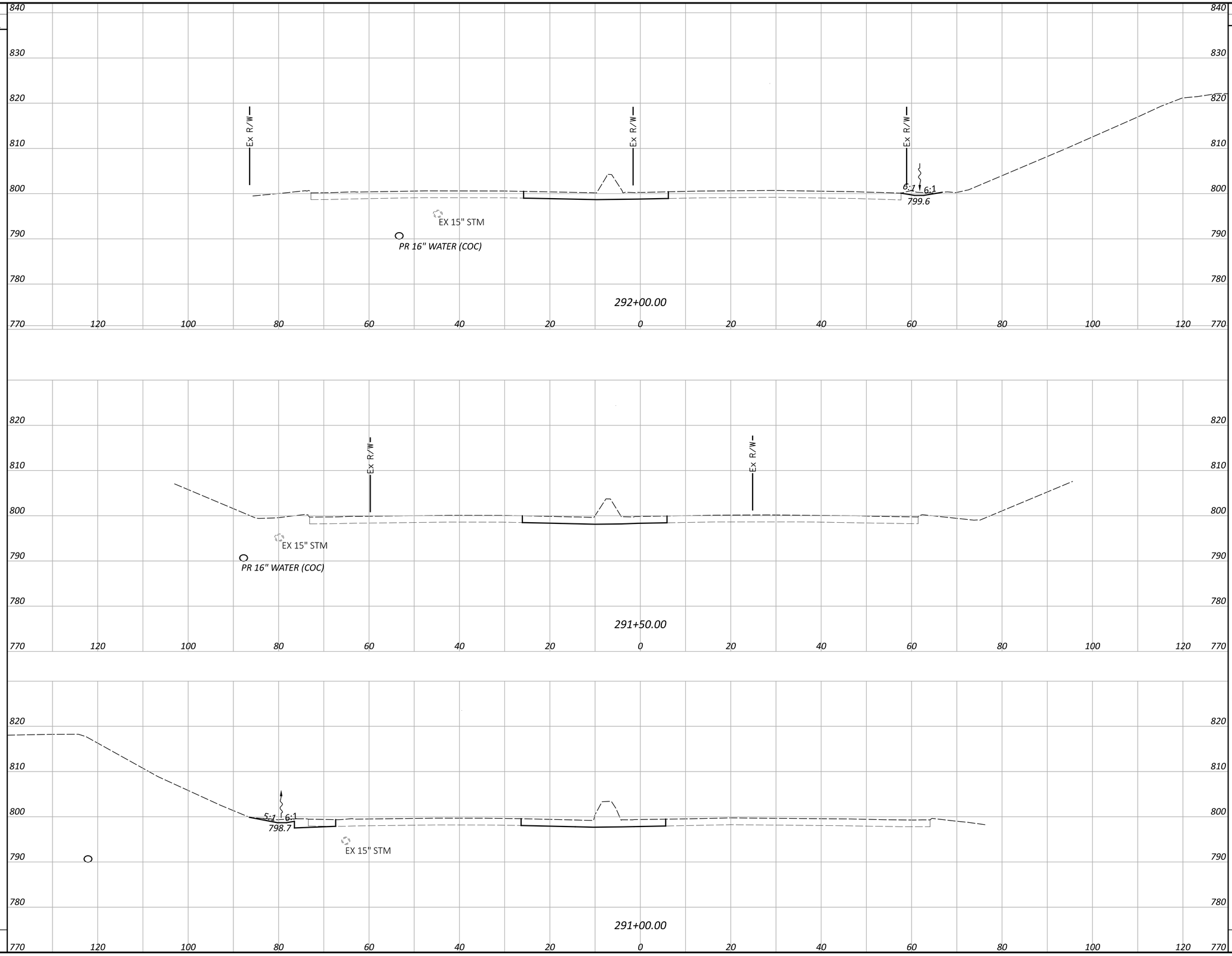
FRA-3-17.44

MODEL: CLX_71 - 289+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:18:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS002.dgn

MODEL: CLX_71 - 291+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS002.dgn

FRA-3-17.44

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
		0	0	0	0
		0	0	0	0
SHEET TOTAL		SHEET TOTALS			



CROSS SECTIONS - IR-71
STA 291+00.00 TO STA 292+00.00

DESIGN AGENCY
EMH&T

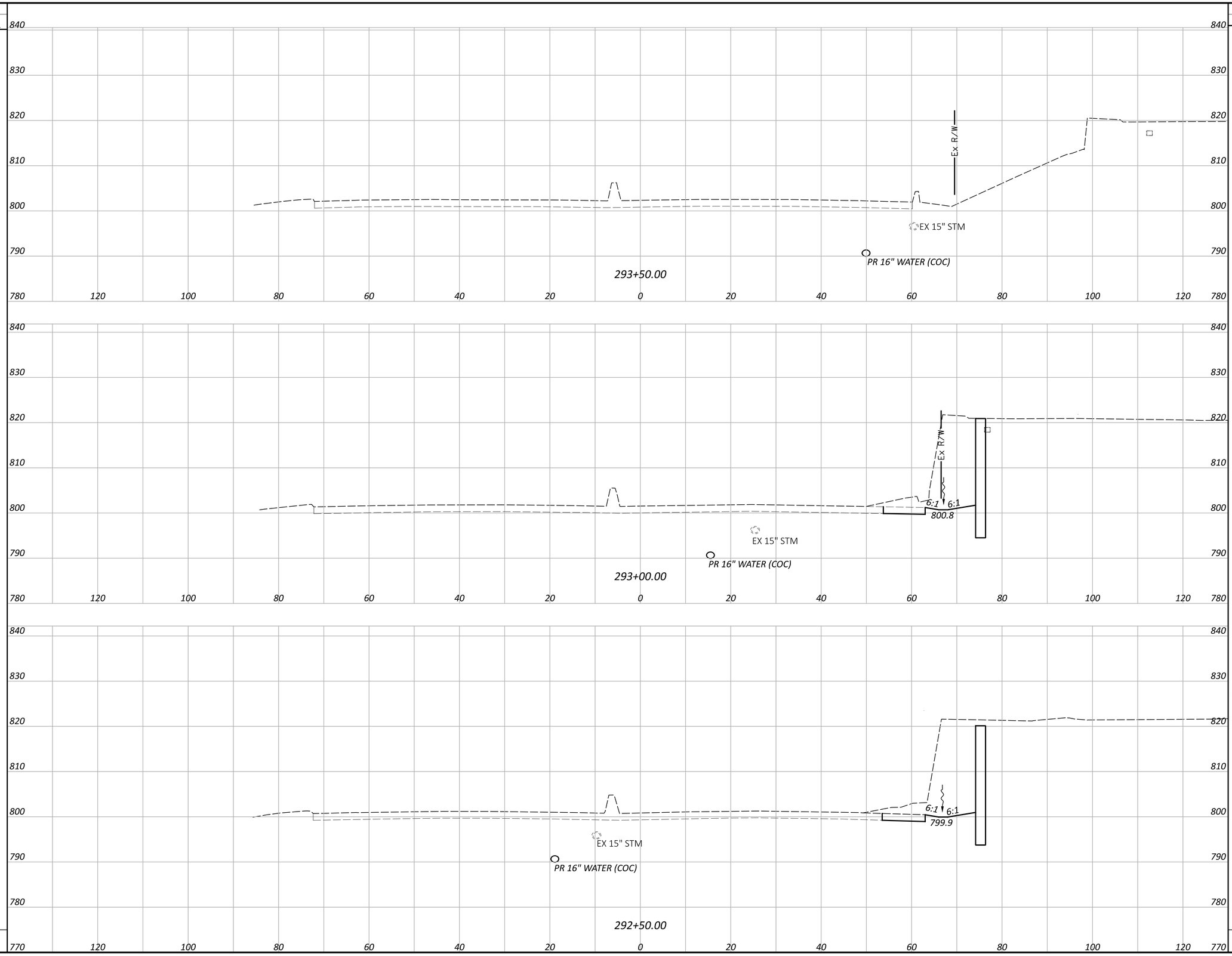
DESIGNER
BLM

REVIEWER
SJB 06/12/26

PROJECT ID
120607

SHEET P.44 TOTAL 130

SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
0	0		
0	0		
		0	0
		0	0
		0	0
SHEET TOTALS			

CROSS SECTIONS - IR-71
STA 292+50.00 TO STA 293+50.00

DESIGN AGENCY: EMH&T

DESIGNER: BLM

REVIEWER: SJB 06/12/26

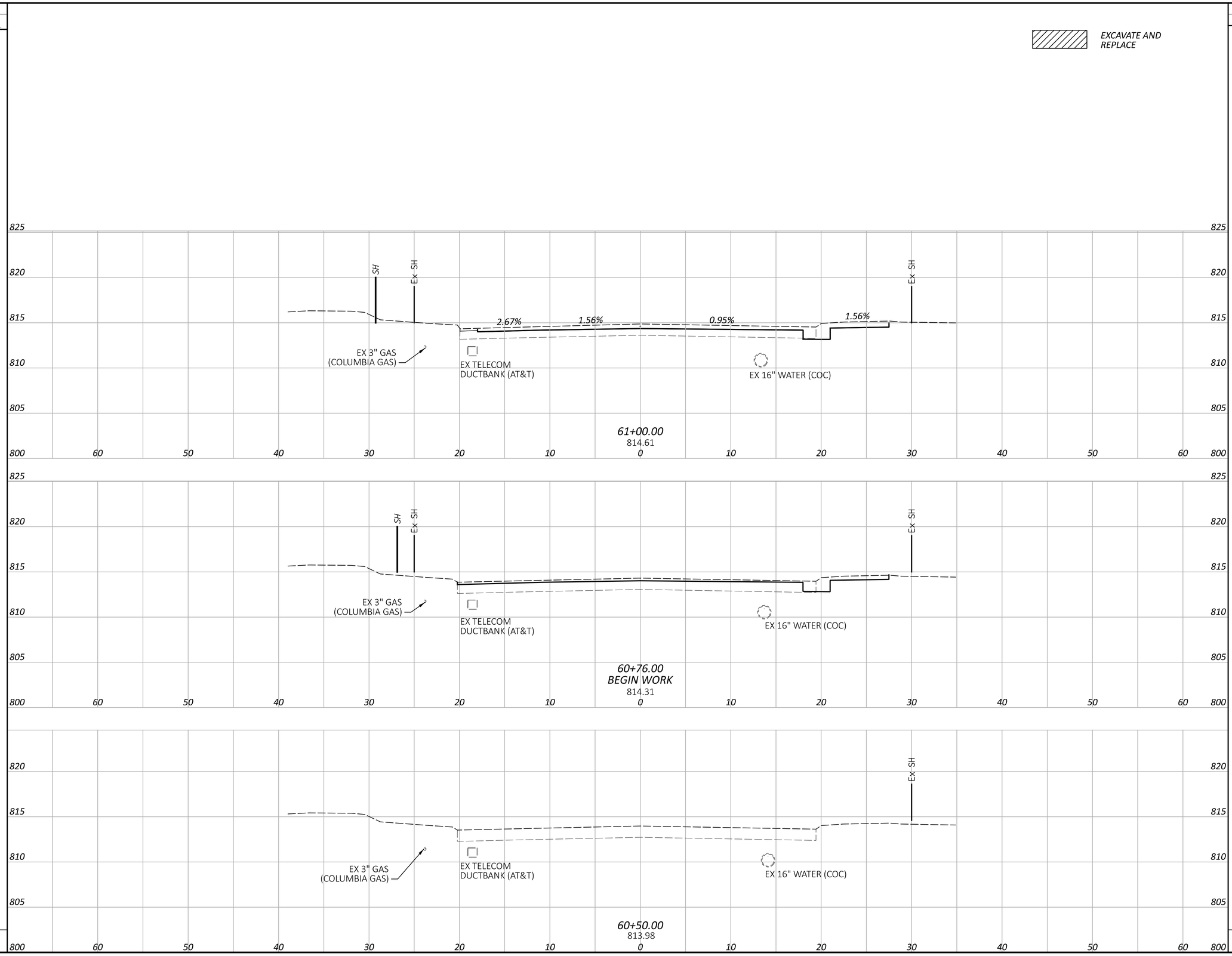
PROJECT ID: 120607

SHEET: P.45 TOTAL: 130

FRA-3-17.44

MODEL: CLX_71 - 292+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS002.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				0	0
				0	0
				0	0
SHEET TOTAL		SHEET TOTALS			



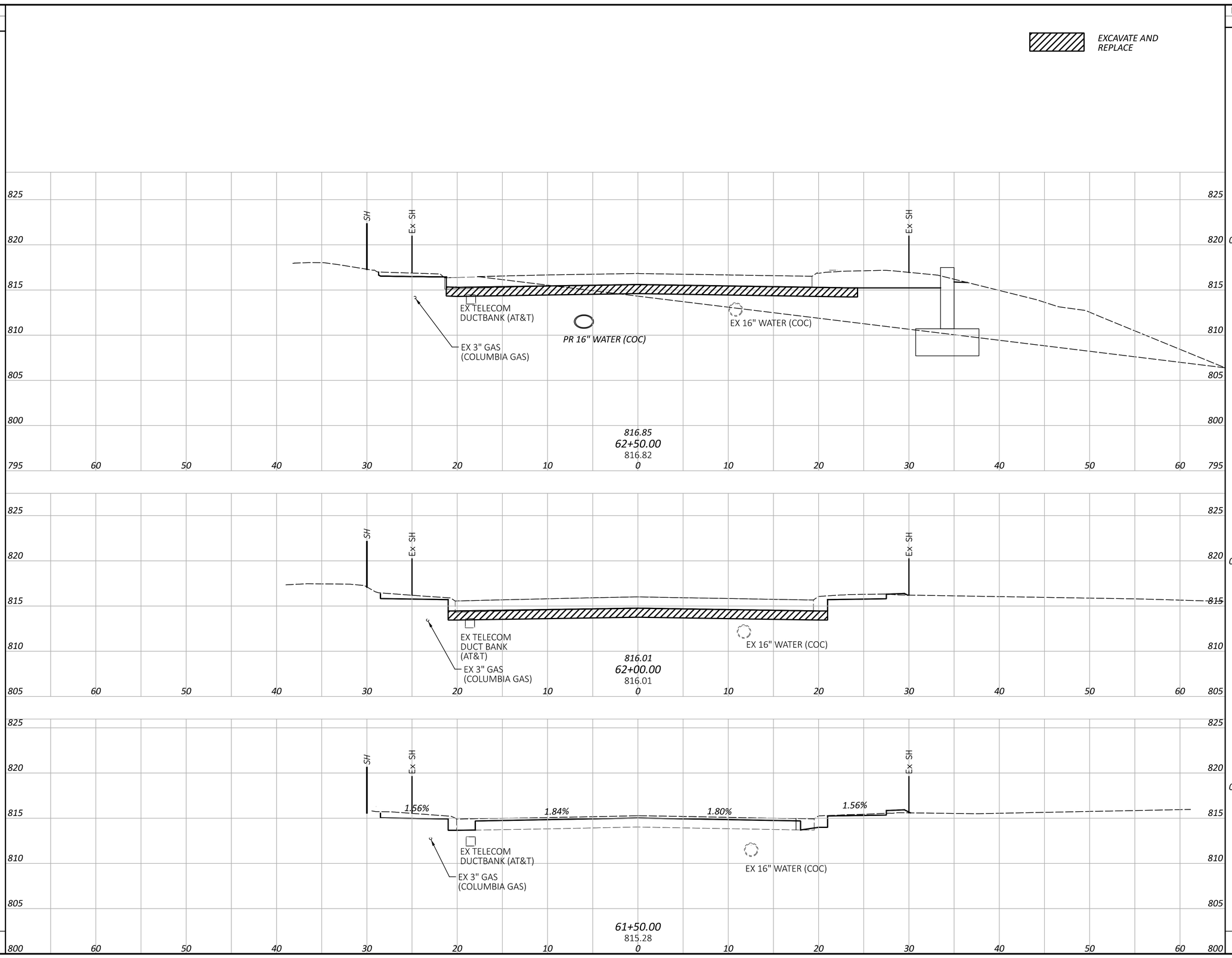
CROSS SECTIONS - CLEVELAND AVE
STA. 60+50.00 TO STA. 61+00.00

DESIGN AGENCY	EMH&T
DESIGNER	BLM
REVIEWER	SJB 06/12/26
PROJECT ID	120607
SHEET	P.46
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R4 - 60+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS001.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
		0	0	0	0
		0	0	0	0
SHEET TOTAL		SHEET TOTALS			



CROSS SECTIONS - CLEVELAND AVE
STA. 61+50.00 TO STA. 62+50.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

PROJECT ID
120607

SHEET P.47 TOTAL 130

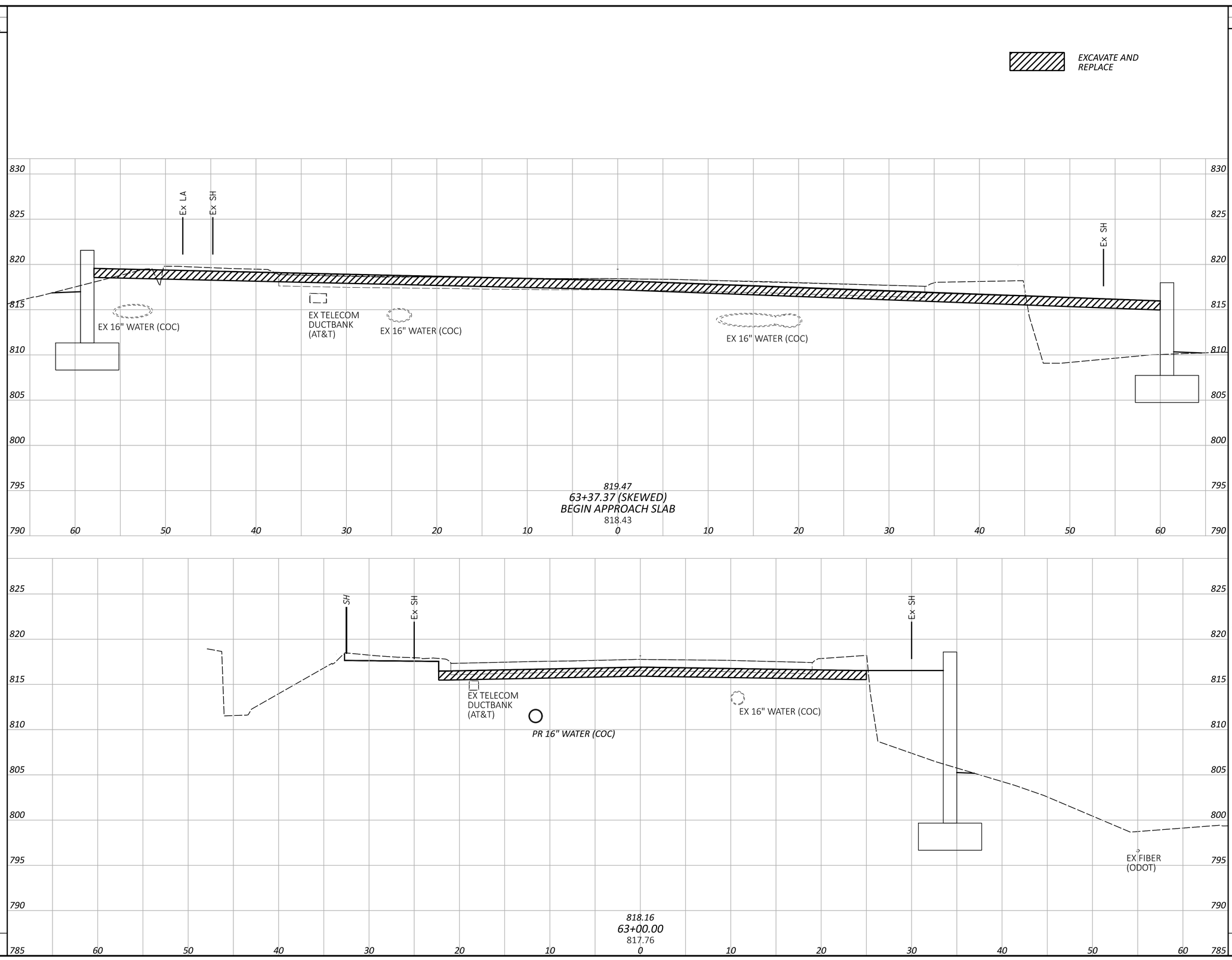
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MODEL: CLRWX_R4 - 61+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS001.dgn

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL
0	0
0	0
0	0

VOLUME	
CUT	FILL
0	0
0	0
0	0



SHEET TOTAL						
SHEET TOTALS	0	0	0	0	0	0

CROSS SECTIONS - CLEVELAND AVE
STA. 63+00.00 TO STA. 63+37.37

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

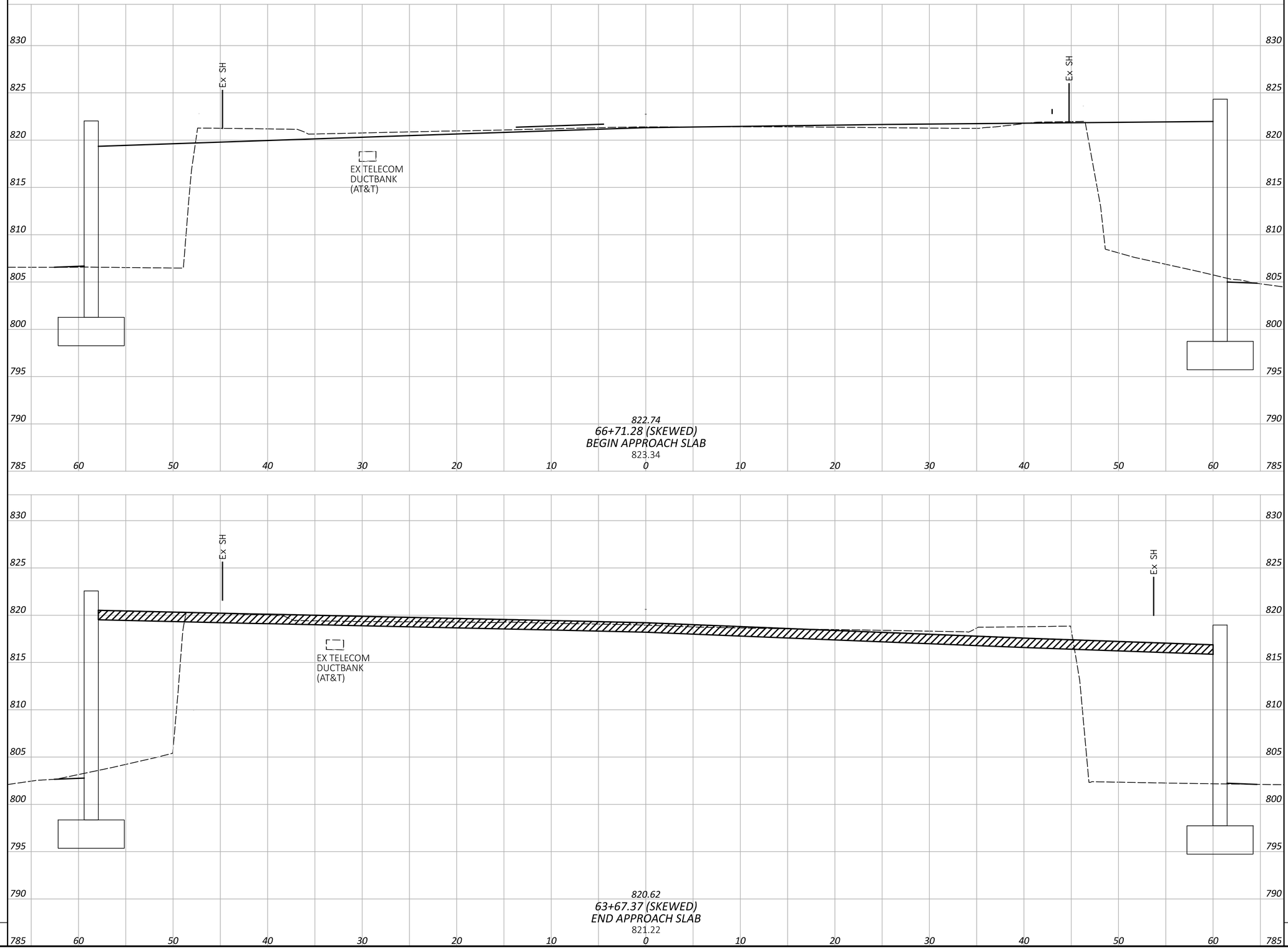
PROJECT ID
120607

SHEET P.48 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R4 - 63+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\40D-Engineering\Roadway\Sheets\120607_XS001.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
SHEET TOTAL		SHEET TOTALS		0	0



CROSS SECTIONS - CLEVELAND AVE
STA. 63+67.37 TO STA. 66+71.28

FRA-3-17.44

MODEL: CLRWX_R4 - 63+67.37 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:17 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205

J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS001.dgn

DESIGN AGENCY: EMH&T

DESIGNER: BLM

REVIEWER: SJB 06/12/26

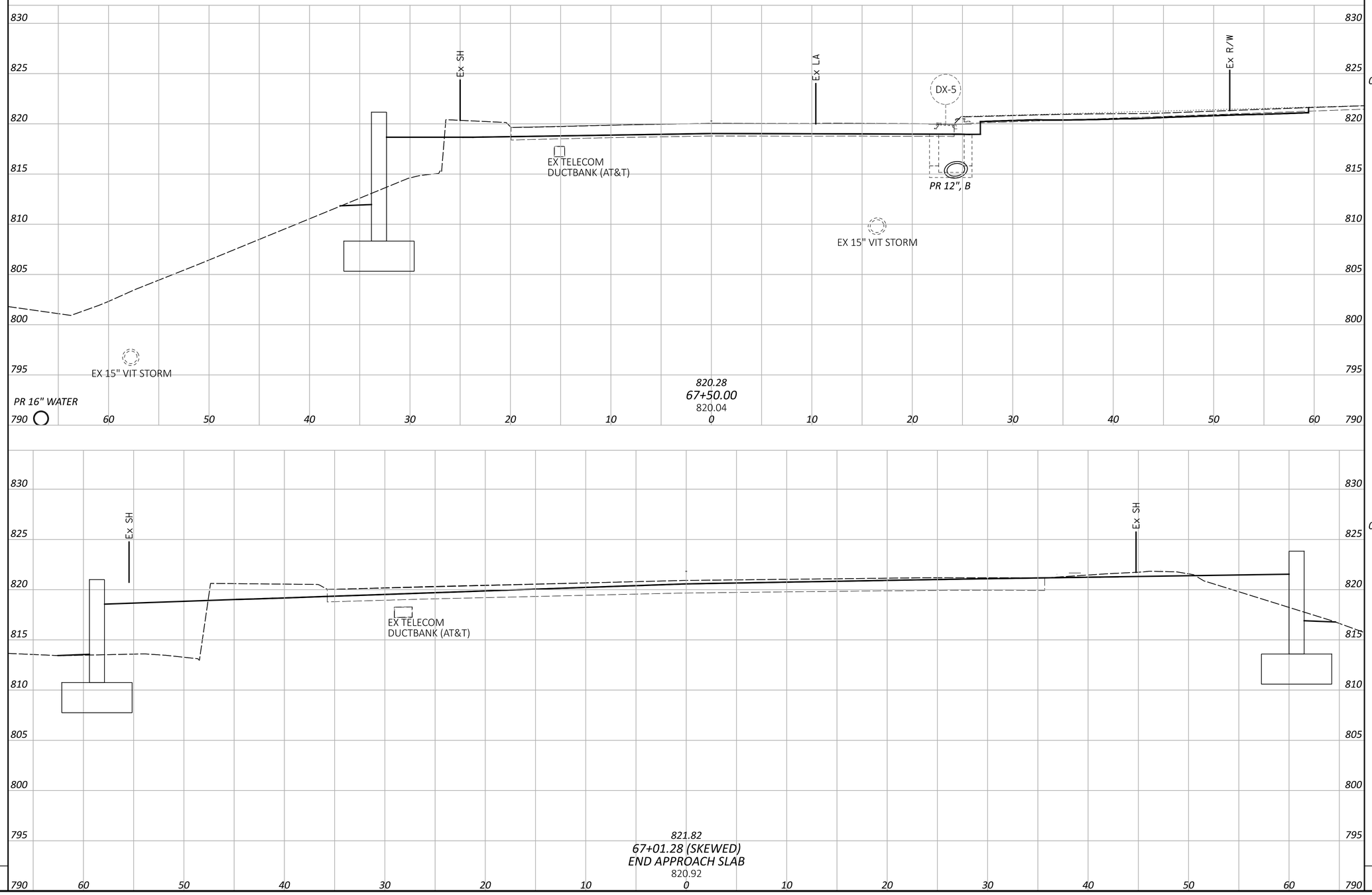
PROJECT ID: 120607

SHEET P.49 TOTAL 130

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL
0	0
0	0
0	0

VOLUME	
CUT	FILL
0	0
0	0
0	0



SHEET TOTAL

SHEET TOTALS

CROSS SECTIONS - CLEVELAND AVE
STA. 67+01.28 TO STA. 67+50.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

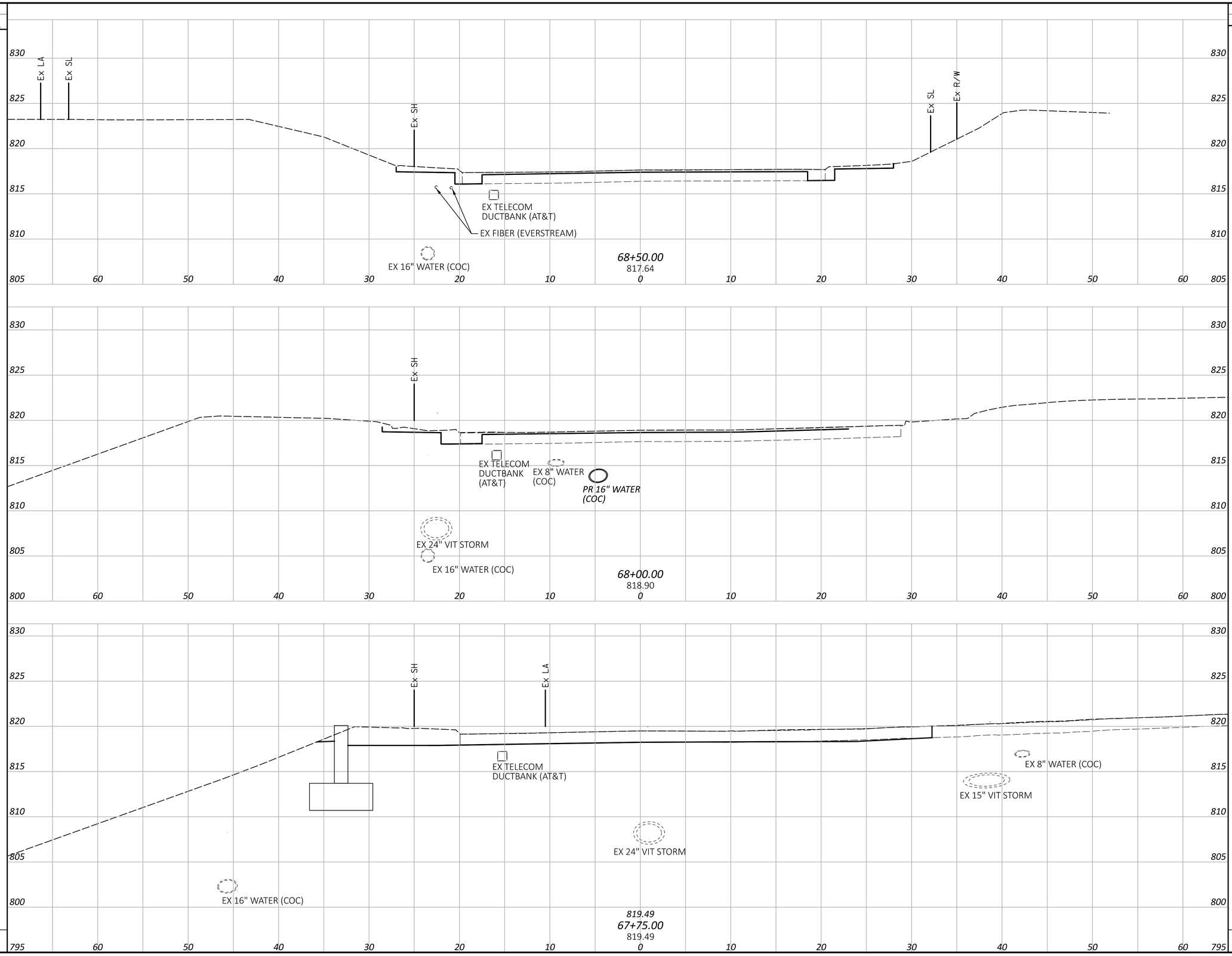
PROJECT ID
120607

SHEET P.50 | TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R4 - 67+01.28 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS001.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
		0	0	0	0
		0	0	0	0
SHEET TOTAL		SHEET TOTALS			



CROSS SECTIONS - CLEVELAND AVE
STA. 67+75.00 TO STA. 68+50.00

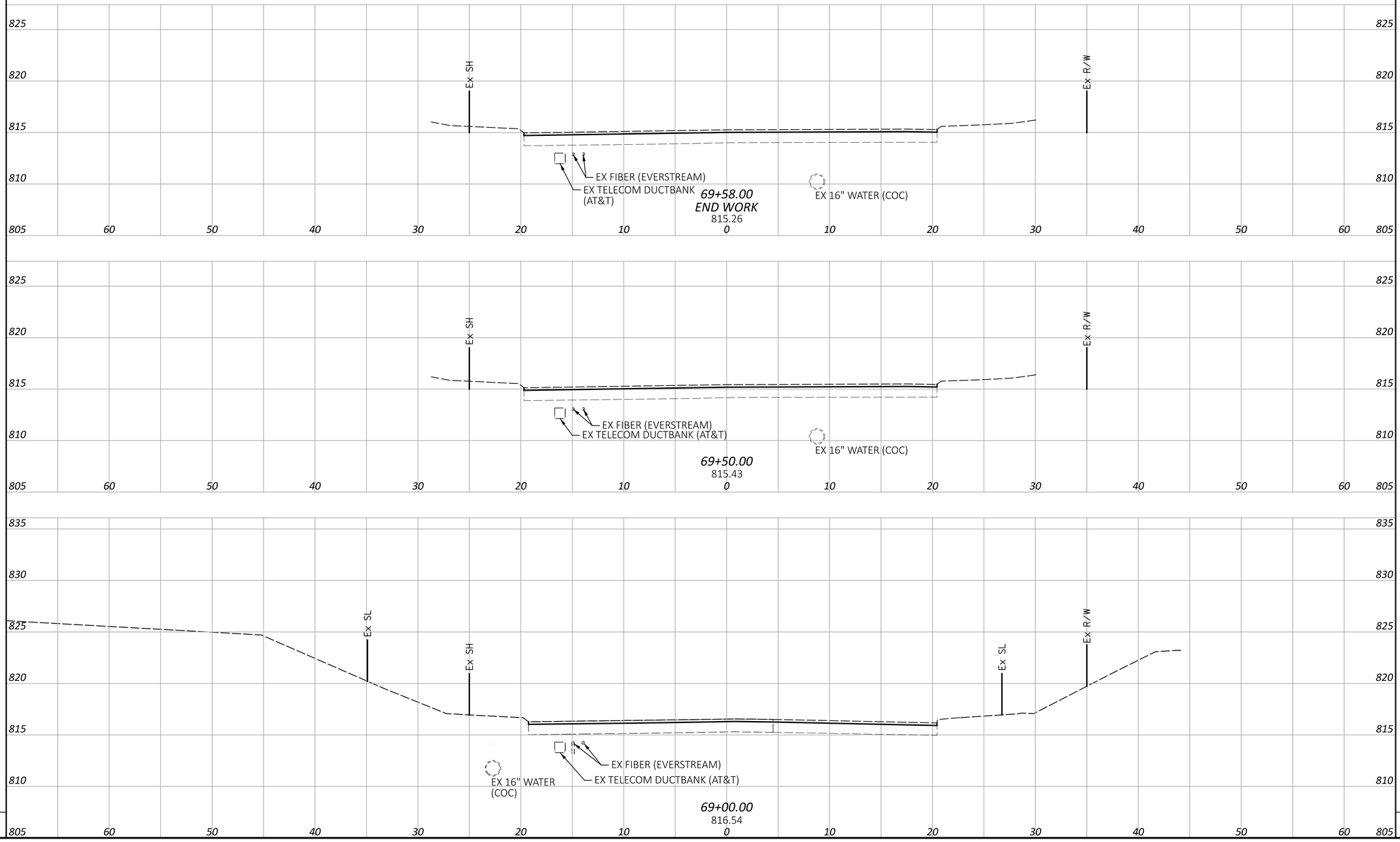
FRA-3-17.44

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DESIGN AGENCY: EMH&T

DESIGNER	BLM
REVIEWER	SJB 06/12/26
PROJECT ID	120607
SHEET	P.51
TOTAL	130

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0	0	0
		0	0	0	0
		0	0	0	0
SHEET TOTAL		SHEET TOTALS			



CROSS SECTIONS - CLEVELAND AVE
STA. 69+00.00 TO STA. 69+58.00

DESIGN AGENCY: EMH&T

DESIGNER: BLM

REVIEWER: SJB 06/12/26

PROJECT ID: 120607

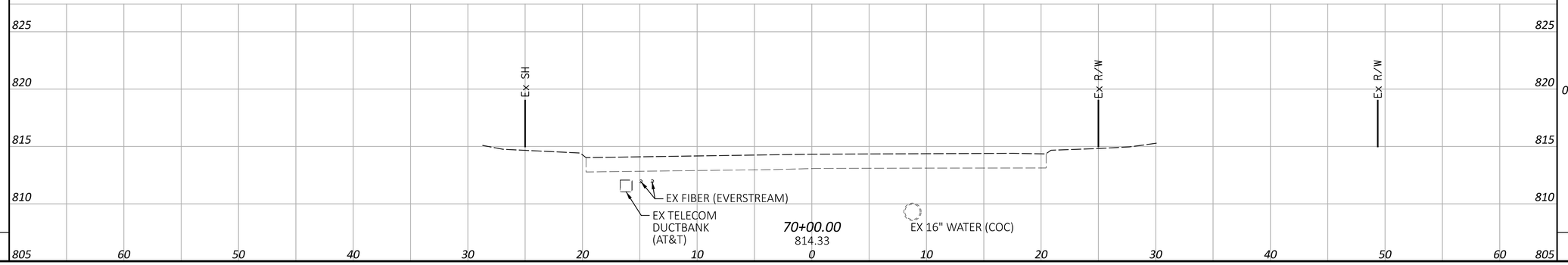
SHEET: P.52 TOTAL: 130

FRA-3-17.44

MODEL: CLRWX_R4 - 69+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\2024069\ODOT\120607\400-Engineering\Roadway\Sheets\120607_XS001.dgn

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	0
SHEET TOTALS			



CROSS SECTIONS - CLEVELAND AVE
STA. 70+00.00

DESIGN AGENCY: EMH&T

DESIGNER: BLM

REVIEWER: SJB 06/12/26

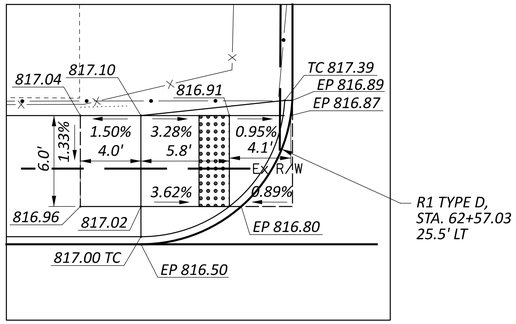
PROJECT ID: 120607

SHEET: P.53 TOTAL: 130

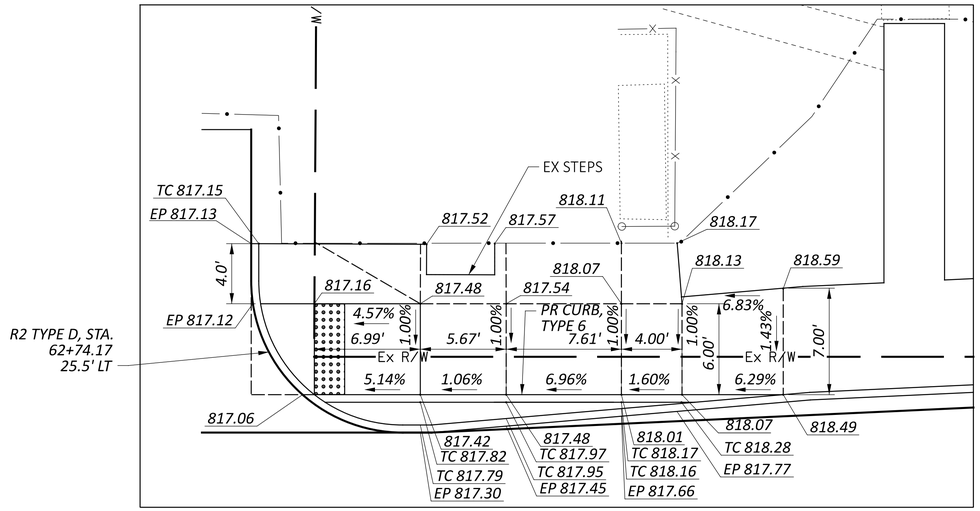
SHEET TOTAL

FRA-3-17.44

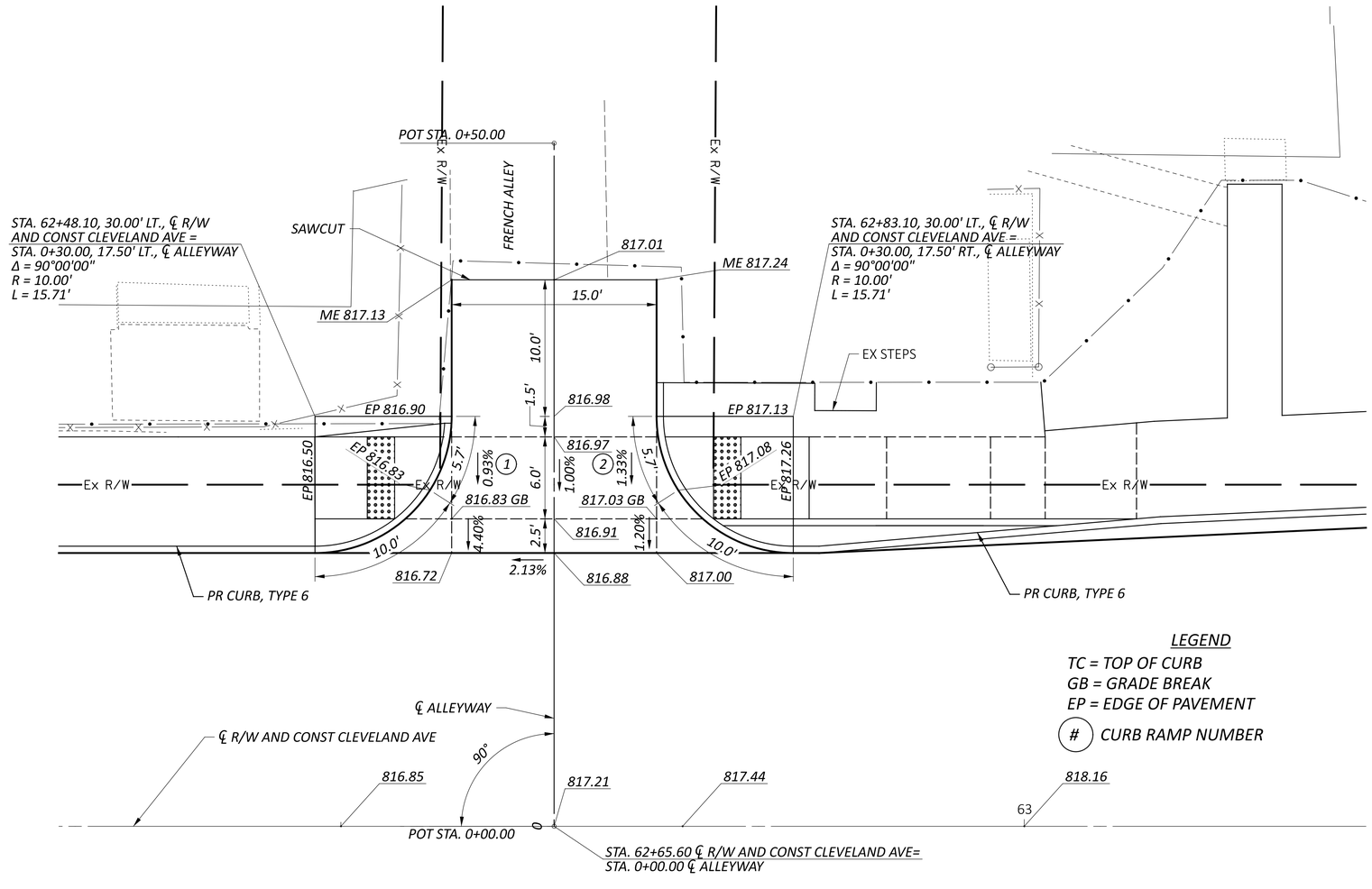
MODEL: CLRWX_R4 - 70+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:22 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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1 CURB RAMP DETAIL
SCALE 1" = 5'



2 CURB RAMP DETAIL
SCALE: 1" = 5'



LEGEND

TC = TOP OF CURB
GB = GRADE BREAK
EP = EDGE OF PAVEMENT
(#) CURB RAMP NUMBER

HORIZONTAL
SCALE IN FEET
0 2.5 5 10

INTERSECTION DETAIL
CLEVELAND AVE AND FRENCH ALY

DESIGN AGENCY
EMH&T

DESIGNER
BLM

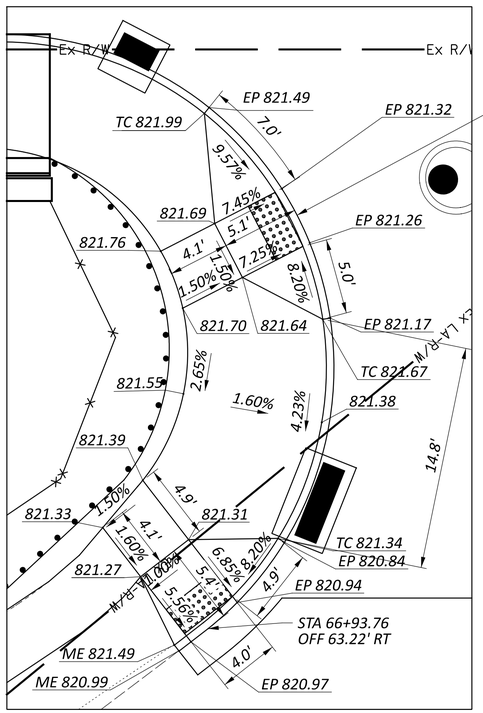
REVIEWER
SJB 06/12/26

PROJECT ID
120607

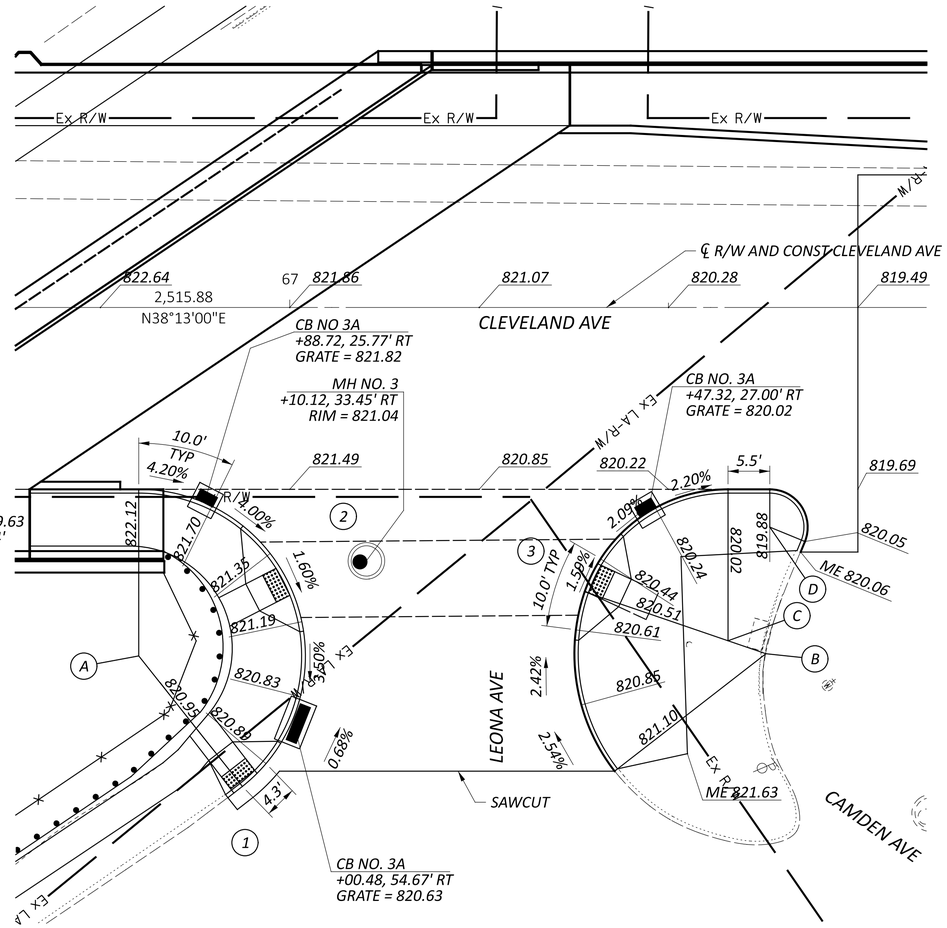
SHEET P.54 TOTAL 130

FRA-3-17.44

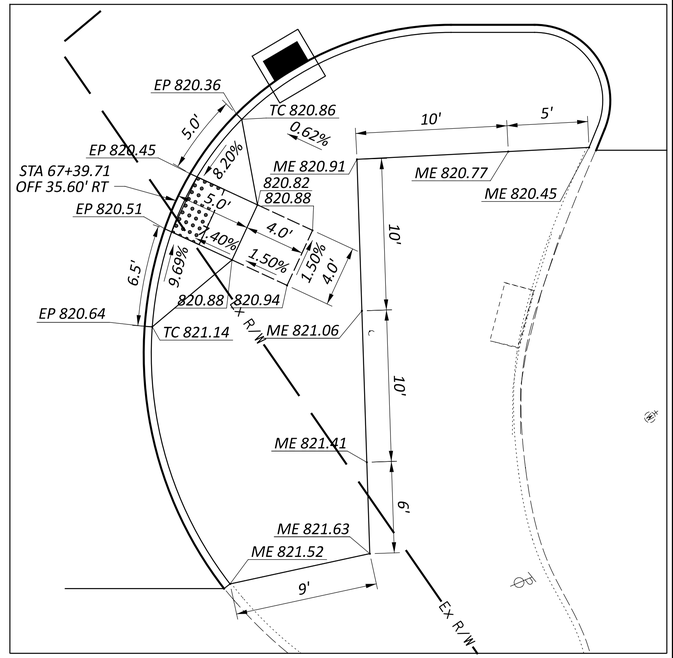
MODEL: Alleyway - INT [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEx02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\400-Engineering\Roadway\Sheets\120607_GI002.dgn



1 2 CURB RAMP DETAIL
SCALE 1" = 5'



CURVE	STATION	OFFSET	DELTA	RADIUS	LENGTH
A	66+80.07	46.00' RT	141°31'27"	22.00'	54.34'
B	67+62.86	45.71' RT	56°40'42"	25.28'	25.01'
C	67+57.86	44.00' RT	71°06'51"	20.00'	24.82'
D	67+63.38	29.00' RT	112°13'45"	5.00'	9.79'



3 CURB RAMP DETAIL
SCALE 1" = 5'

LEGEND

TC = TOP OF CURB
G = GUTTER
EP = EDGE OF PAVEMENT
(#) *CURB RAMP NUMBER*

HORIZONTAL
SCALE IN FEET
0 5 10 20

INTERSECTION DETAIL
CLEVELAND AVE AND CAMDEN AVE

DESIGN AGENCY
EMH&T

DESIGNER
BLM

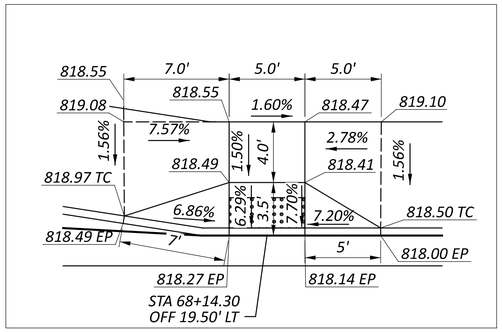
REVIEWER
SJB 06/12/26

PROJECT ID
120607

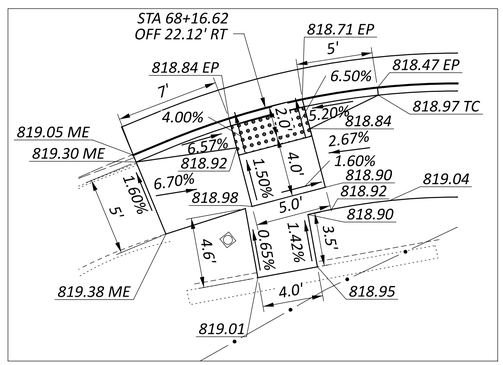
SHEET P.55 | TOTAL 130

FRA-3-17.44

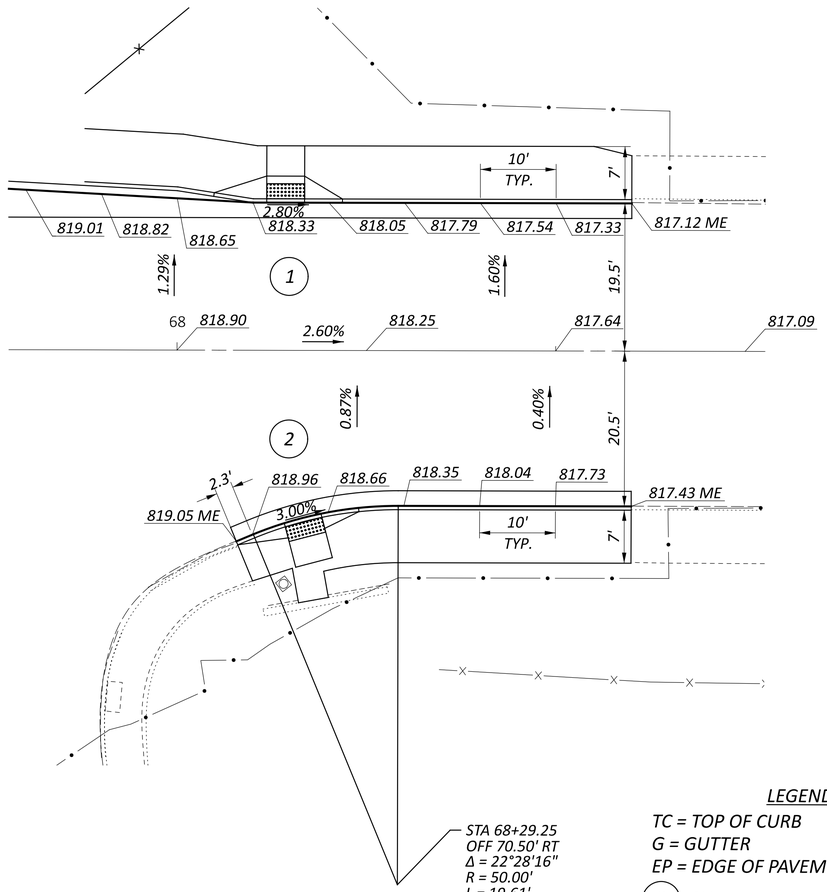
MODEL: Leona Ave - INT [SHEET] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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1 CURB RAMP DETAIL
SCALE 1" = 5'



2 CURB RAMP DETAIL
SCALE 1" = 5'



LEGEND

TC = TOP OF CURB
G = GUTTER
EP = EDGE OF PAVEMENT

(#) CURB RAMP NUMBER

HORIZONTAL
SCALE IN FEET
0 5 10 20

CURB RAMP DETAILS
CLEVELAND AVE CROSSING

DESIGN AGENCY
EMH&T

DESIGNER
BLM

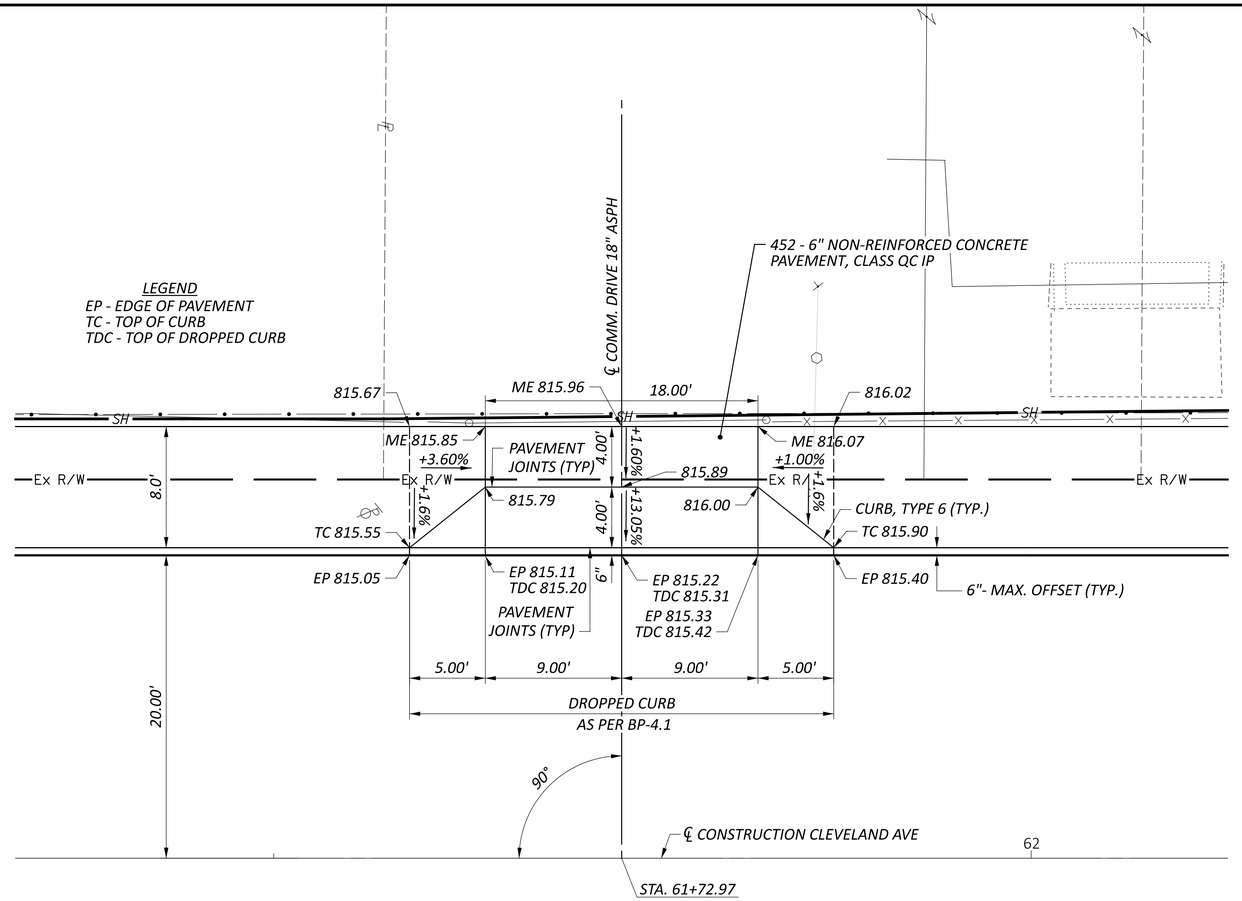
REVIEWER
SJB 06/12/26

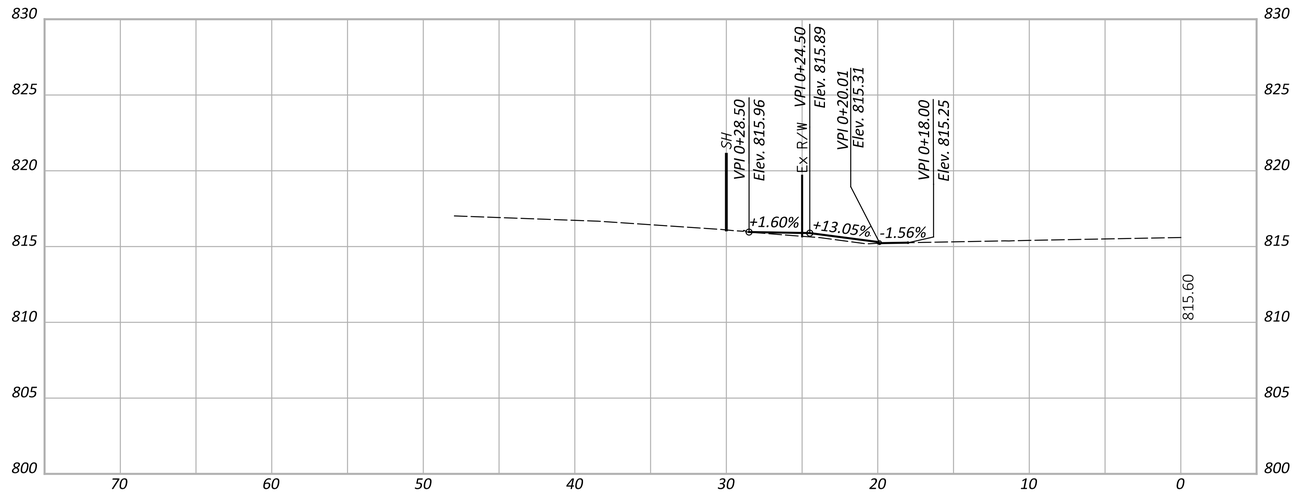
PROJECT ID
120607

SHEET P.56 TOTAL 130

FRA-3-17.44

MODEL: Cleveland Ave - Crossing [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:34 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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HORIZONTAL SCALE IN FEET
0 2.5 5 10

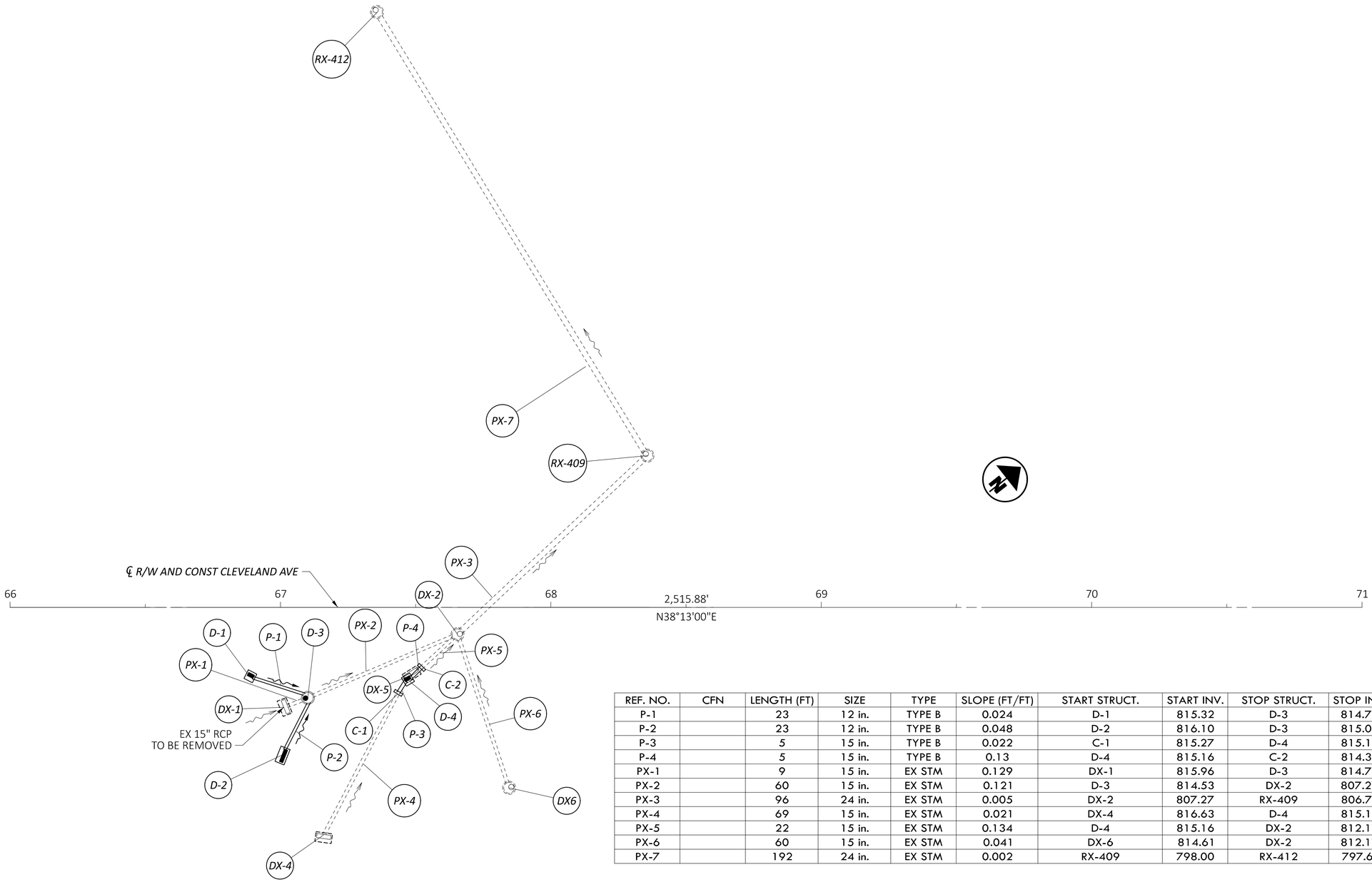
DRIVE DETAIL
CLEVELAND AVE STA. 61+72.97

DESIGN AGENCY
EMH&T

DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.57 TOTAL 130

FRA-3-17.44

MODEL: CLP_Drive - Drive Detail |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:37 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
J:\20240690\ODOT\120607\400-Engineering\Roadway\Sheets\120607_GD001.dgn



REF. NO.	CFN	LENGTH (FT)	SIZE	TYPE	SLOPE (FT/FT)	START STRUCT.	START INV.	STOP STRUCT.	STOP INV.	CONDUIT COMMENTS
P-1		23	12 in.	TYPE B	0.024	D-1	815.32	D-3	814.77	707.33, 706.02
P-2		23	12 in.	TYPE B	0.048	D-2	816.10	D-3	815.00	707.33, 706.02
P-3		5	15 in.	TYPE B	0.022	C-1	815.27	D-4	815.16	707.33, 706.02
P-4		5	15 in.	TYPE B	0.13	D-4	815.16	C-2	814.38	707.33, 706.02
PX-1		9	15 in.	EX STM	0.129	DX-1	815.96	D-3	814.77	TO BE REMOVED
PX-2		60	15 in.	EX STM	0.121	D-3	814.53	DX-2	807.27	
PX-3		96	24 in.	EX STM	0.005	DX-2	807.27	RX-409	806.75	
PX-4		69	15 in.	EX STM	0.021	DX-4	816.63	D-4	815.16	
PX-5		22	15 in.	EX STM	0.134	D-4	815.16	DX-2	812.17	
PX-6		60	15 in.	EX STM	0.041	DX-6	814.61	DX-2	812.17	
PX-7		192	24 in.	EX STM	0.002	RX-409	798.00	RX-412	797.61	

DRAINAGE STRUCTURE DETAILS

REF. NO.	ALIGNMENT	STATION OFFSET (FT)	SIDE	STRUCT. TYPE	GRATE/ RIM ELEV.	STRUCT. INV.	PIPE CONNECTION INFORMATION	STRUCT. COMMENTS
D-1	CLRWX_R003	66+88.72, 25.77'	RT	CB-3A	821.82	815.32	(IN) UD (S) 4" 818.70, (OUT) P-1 NE 12" 815.32	
D-2	CLRWX_R003	67+00.48, 54.67'	RT	CB-3	820.63	816.10	(IN) UD (E) 4" 817.50, (OUT) P-2 NW 12" 816.10	
D-3	CLRWX_R003	67+10.12, 33.45'	RT	MH-3	821.04	814.53	(IN) UD (S) 4" 817.16, (IN) P-1 SE 12" 814.77, (IN) P-2 SW 12" 815.00, (OUT) PX-2 N 15" 814.53	CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION
D-4	CLRWX_R003	67+47.32, 27.00'	RT	CB-3A	820.02	815.16	(IN) UD (N) 4" 817.90 ,(IN) UD (S) 4" 817.90, (IN) P-4, SW 15" 815.16, (OUT) P-5 NE 15" 815.16	
DX-1	CLRWX_R003	67+01.28, 36.96'	RT	CB-3	820.36	815.96	(OUT) PX-1 N 15" 815.96	TO BE REMOVED
DX-2	CLRWX_R003	67+65.48, 9.91'	RT	MH-3	819.67	807.27	(IN) PX-2 S 15" 807.27, (IN) PX-5 SW 15" 812.17, (IN) PX-6 W 15" 812.17, (OUT) PX-3 24" N 807.27	
DX-4	CLRWX_R003	67+15.92, 85.44'	RT	CB-3	820.53	816.63	(OUT) PX-4 NE 15" 816.63	
DX-5	CLRWX_R003	67+48.87, 24.89'	RT	CB-3	819.96	815.16	(IN) PX-4 SW 15" 815.16, (OUT) PX-5 NE 15" 815.16	TO BE REMOVED
DX-6	CLRWX_R003	67+84.56, 66.74'	RT	MH-3	821.31	814.61	(OUT) PX-3 E 15" 814.61	
RX-409	CLRWX_R003	68+35.71, 56.16'	LT	MH-3	821.91	806.75	(IN) PX-3 S 24" 806.75, (OUT) PX-7 W 54" 798.54	
RX-412	CLRWX_R003	294+52.33, 65.97'	LT	MH-3	803.81	796.60	(IN) PX-7 E 24" 797.61	

HORIZONTAL
SCALE IN FEET
0 10 20 40

STORM SEWER SCHEMATIC PLAN

DESIGN AGENCY
EMH&T

DESIGNER
BLM

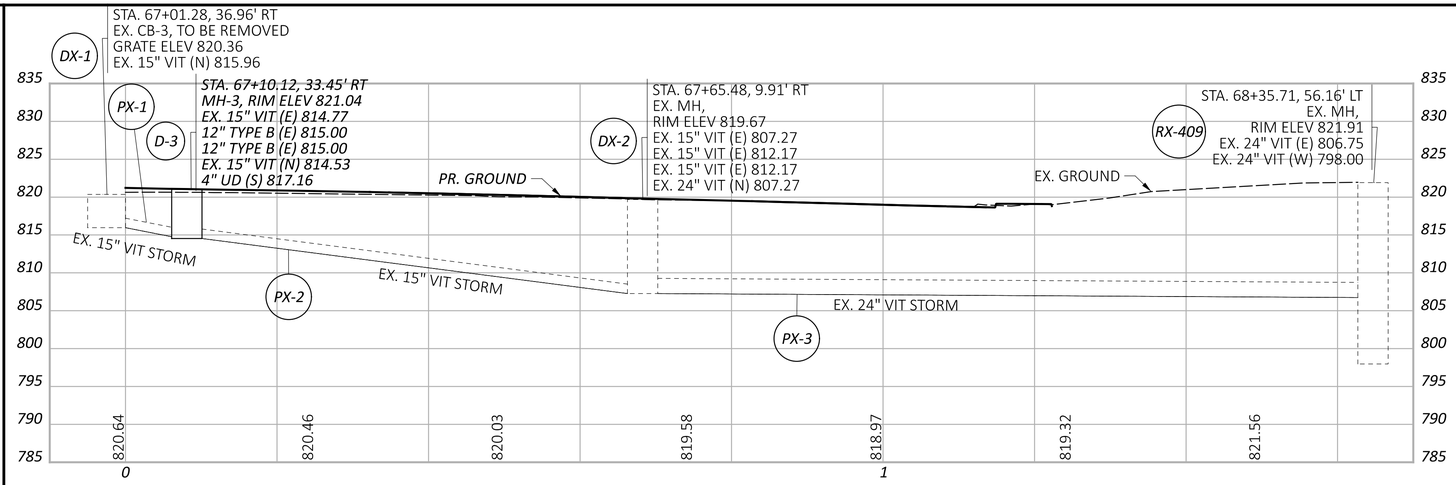
REVIEWER
SJB 06/12/26

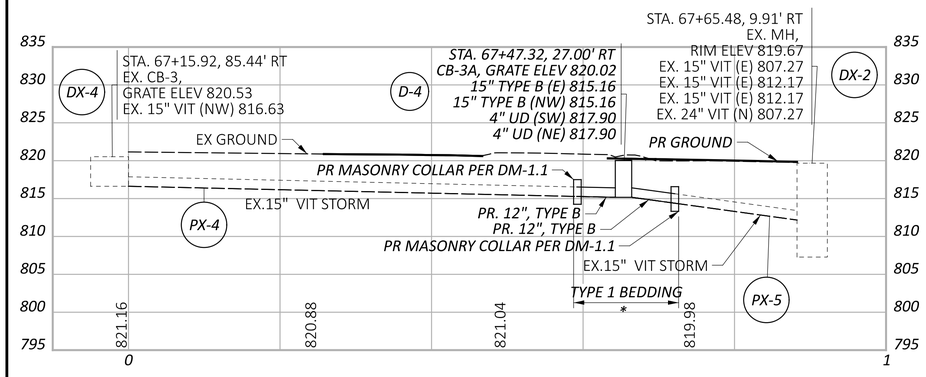
PROJECT ID
120607

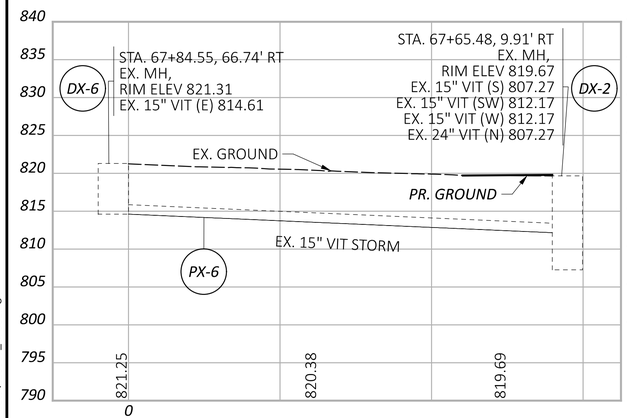
SHEET P.58 TOTAL 130

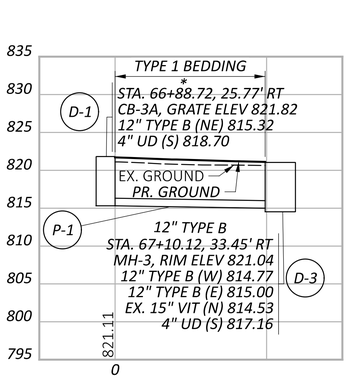
FRA-3-17.44

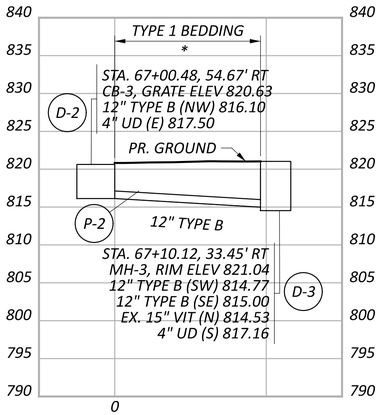
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J:\2024090\ODOT\120607\400-Engineering\Drainage\Sheets\120607_DF001.dgn WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205











* - ITEM 912 - COMPACTED GRANULAR BACKFILL

STORM SEWER PROFILES

FRA-3-17.44

MODEL: Profile Run1 - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl
J:\2024069\ODOT\120607\400-Engineering\Drainage\Sheets\120607_DF001.dgn
USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
SJB 06/12/26

PROJECT ID
120607

SHEET P.59 TOTAL 130

SPECIFICATIONS

THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION, INLCUDING ALL REVISIONS, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL AND IN EFFECT AT THE TIME OF SIGNATURE BY THE DIRECTOR OF PUBLIC UTILITIES, SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED.

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT APPROVED MATERIALS LIST AND RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER, UNLESS OTHERWISE SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER. ONLY PRODUCTS LISTED ON THE CURRENT APPROVED MATERIALS LIST WILL BE PERMITTED TO BE INSTALLED.

STANDARD DRAWINGS

ALL CITY OF COLUMBUS STANDARD DRAWINGS SHALL BE CONSIDERED A PART OF THESE PLANS, UNLESS OTHERWISE NOTED.

WATER CONTRACTOR LICENSE REQUIREMENT

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER MAIN SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

OEPA APPROVAL

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

WATER MAIN EMERGENCIES

FOR ANY EMERGENCIES THAT OCCUR AFTER NORMAL WORKING HOURS INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

CITY OF COLUMBUS STREET OPENING PERMIT

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS BY APPLYING ONLINE AT HTTPS://PORTAL.COLUMBUS.GOV/PERMITS/ AND REVIEW THE INFORMATION AND DIRECTIONS IN REGARDS ONLINE AT HTTPS://WWW.COLUMBUS.GOV/PUBLICSERVICE /PERMITS/. IF YOU HAVE QUESTIONS CALL: (614) 645-7497; OR EMAIL: COLSPERMITS@COLUMBUS.GOV. WHEN STEEL PLATES ARE UTILIZED, CONTRACTOR SHALL ENSURE PROPER SIGNAGE IS USED INDICATING THE PLATE LOCATIONS. CONTRACTOR SHALL REPORT THE LOCATIONS OF THE STEEL PLATES AND LANE CLOSURES VIA THE CLOSE FORM ACCESSED AT HTTPS://SURVEY123.ARCGIS.COM/SHARE/4A796BA2811E42CD9F91B742D9C23D34

SAFETY REQUIREMENTS

THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

RIGHTS OF WAY

IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS OF ENTRY OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS, NECESSARY TO FULFILL SUCH REQUIREMENTS, SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT UNLESS SPECIFIC PROVISION IS MADE IN THE CONTRACT SPECIFICATIONS FOR SUCH COST UNDER SPECIFIC ITEMS OF THE CONTRACT.

STATIONING

THE BASIS OF STATIONING FOR THE WATER MAIN IS THE CENTERLINE OF R/W, WHICH IS ESTABLISHED AS DESCRIBED ON SHEET P.2.

CLEANING, DISINFECTION & TESTING

ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.15 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.16 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS, REGARDLESS OF THE AMOUNT OF LEAKAGE.

ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.17 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE INSPECTOR SHALL SUBMIT A WRITTEN REQUEST FOR CHLORINATION OF THE MAINS THAT NEED DISINFECTED, THREE (3) SETS OF "AS-BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS-BUILT SURVEY COORDINATES, WATER SERVICE REPORTS AND A PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.

THE CONTRACTOR SHALL PROVIDE CHLORINATION TAPS AND BLOWOFFS AS PER THE REQUIREMENTS OF SECTION 801.17 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. IN ADDITION TO THE BLOWOFF LOCATIONS NOTED IN 801.17, THE CONTRACTOR SHALL ALSO INSTALL BLOWOFFS AT EVERY 1,100 LINEAR FEET OF THE WATER MAIN INSTALLED FOR SAMPLING.

ANY SECTION OF WATER MAIN THAT IS LONGER THAN 20 FEET IN LENGTH SHALL BE CHLORINATED. HAND SWABBING METHODS WILL ONLY BE PERMITTED FOR SECTIONS LESS THAN OR EQUAL TO 20 FEET IN LENGTH. USE UNSCENTED HOUSEHOLD BLEACH FOR HAND SWABBING OF PIPE AND FITTINGS. PLEASE NOTE THAT CUT-IN-TEES, SLEEVES, AND ANY OTHER REQUIRED FITTINGS OR PIPING SHALL BE TAKEN INTO ACCOUNT AND ARE INCLUDED IN THE TOTAL LENGTH OF THE SECTION (CUT TO CUT).

A MINIMUM OF 4 FEET OF COVER IS REQUIRED PRIOR TO PRESSURE TESTING ANY WATER MAIN. A SUFFICIENT AMOUNT OF BACKFILL SHALL BE INSTALLED TO PROVIDE THE ADEQUATE RESTRAINT IN AREAS WHERE REQUIRED.

BLOWOFFS FOR SAMPLING DURING DISINFECTION

CONTRACTOR SHALL PROVIDE CHLORINATION TAPS AND BLOWOFFS AS PER THE REQUIREMENTS OF 801.17. IN ADDITION TO THE BLOWOFF LOCATIONS NOTED IN 801.17, CONTRACTOR SHALL ALSO INSTALL BLOWOFFS AT EVERY 1,100 LINEAR FEET OF MAIN INSTALLED FOR SAMPLING.

CHLORINATION SUBMITTAL TIMEFRAMES

THE CONTRACTOR SHALL ASSUME A MINIMUM TIMEFRAME OF 30 CALENDAR DAYS IN THE PREPARATION OF THEIR CONSTRUCTION SCHEDULE FOR EACH INDIVIDUAL CHLORINATION REQUEST SUBMITTAL. THIS TIMEFRAME IS ONLY AN ESTIMATE, AND ACTUAL DURATIONS MAY VARY DURING CONSTRUCTION.

WATER MAIN CONNECTIONS

ONLY ONE CONNECTION TO AN EXISTING WATER MAIN IS PERMITTED BEFORE DISINFECTION OF A NEW WATER MAIN HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE MAIN HAS BEEN DISINFECTED. WHEN A 3-INCH OR LARGER TAP IS TO OCCUR ON A 20-INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614)-645-7168 TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.

CONSTRUCTION SEQUENCING

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION AS TO MINIMIZE THE NUMBER OF TIMES THAT CUSTOMERS ARE WITHOUT WATER SERVICE. THE MAXIMUM NUMBER OF SERVICE INTERRUPTIONS TO ANY ONE CUSTOMER DURING THE CONSTRUCTION OF THE PROJECT SHALL BE TWO (2). THE SERVICE INTERRUPTION SHALL LAST NO LONGER THAN 4 HOURS UNLESS APPROVED IN WRITING BY THE CITY. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS, BUT NOT MORE THAN 72 HOURS, PRIOR TO ANY DISRUPTION OF WATER SERVICE.

REPAIRS TO DAMAGED POLYETHELENE ENCASEMENT

IF DURING EXCAVATION, THE POLYETHYLENE ENCASEMENT ON THE EXISTING WATER MAIN BECOMES DAMAGED, THE CONTRACTOR SHALL REPAIR THE POLYETHYLENE ENCASEMENT PER MANUFACTURER'S SPECIFICATIONS AND DOW STANDARD DRAWINGS L-1003 AND L-1004, AT THEIR OWN EXPENSE. ENSURE THAT THE ENTIRE EXPOSED AREA IS COVERED WITH NEW POLYETHYLENE ENCASEMENT AND SECURELY TAPED, PRIOR TO BACKFILLING.

NEW VALVE BOX ADJUSTMENTS

RISER RINGS WILL NOT BE PERMITTED ON ANY NEWLY INSTALLED VALVE BOXES TO BRING VALVES TO FINAL GRADE. THE CONTRACTOR SHALL ENSURE THAT THE BOXES ARE INSTALLED AT THE CORRECT GRADE FOR FINAL PAVING OPERATIONS AND THAT THEIR PAVING CONTRACTOR INSTALLS PAVEMENT CORRECTLY AT LIDS DURING PAVING OPERATIONS. VALVE LIDS ARE NOT PERMITTED TO SET ABOVE FINAL GRADE AND SHALL BE A MAXIMUM OF 1/4"BELOW FINAL GRADE.

ADJUST TO GRADE

ALL WATER MAIN VALVE BOXES, WATER TAP BOXES, TEST STATIONS, PITOMETER TAP STRUCTURES, METER PIT COVERS, AND OTHER SURFACE UTILITY STRUCTURES WITHIN THE DISTURBED AREA SHALL BE ADJUSTED TO GRADE. ANY OF THESE STRUCTURES LOCATED WITHIN PAVEMENT, DRIVEWAYS, OR OTHER TRAVELED AREAS, WHETHER EXISTING OR PROPOSED, SHALL BE EQUIPPED WITH A TRAFFIC RATED, HEAVY DUTY VALVE BOX AND/OR COVER IN ACCORDANCE WITH THE STANDARD DRAWINGS. EXISTING WATER TAP BOXES TO REMAIN THAT ARE ENCOUNTERED WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT, CENTERED OVER THE CURB STOP, AND ADJUSTED TO THE PROPOSED GRADE.

TRENCH DEWATERING

CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE CHAPTER 3745-83-02 WATER DISRUPTION OF SERVICE RULE. EXCAVATE PITS SUFFICIENTLY BELOW THE AREA TO BE CONNECTED TO IN ORDER TO MAINTAIN WATER LEVELS BELOW THE WATER MAIN. IF WATER FROM THE PIT ENTERS THE EXISTING MAIN, CONTACT DIVISION OF WATER IMMEDIATELY. ENSURE THAT SUFFICIENTLY SIZED PUMPE ARE UTILIZED TO REMOVE WATER FROM THE TRENCH AND BACKUP PUMPS ARE KEPT ON SITE FOR REDUNDANCY.

USING LSMB NEAR EXISTING WATER MAIN

WHEN CROSSING THE EXISTING WATER MAIN, AND LOW STRENGTH MORTAR (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER.

CLEARANCE FROM STORM AND SANITARY SEWERS

MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.

CLEARANCE FROM OTHER UTILITIES & STRUCTURES

WHERE NEW CONDUIT IS PROPOSED TO CROSS AN EXISTING OR PROPOSED WATER MAIN OR WATER TAP/SERVICE LINE, A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE CONDUIT AND THE WATER MAIN OR TAP/SERVICE LINE. A MINIMUM OF 3-FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) IS REQUIRED AT LOCATIONS WHERE THE CONDUIT IS PARALLEL TO THE WATER MAIN AND AT LOCATIONS OF WATER MAIN THRUST BLOCKS.

A MINIMUM OF 3 FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) SHALL BE MAINTAINED BETWEEN ALL EXISTING WATER MAINS AND FOUNDATIONS FOR POLES, PULL BOXES, PUSH BUTTON PEDESTALS, AND ANY OTHER MISCELLANEOUS ELECTRICAL STRUCTURE.

THE PROPOSED WATER MAIN SHALL BE LOCATED A MINIMUM DISTANCE OF TWENTY (20) FEET AWAY FROM ANY EXISTING OR PROPOSED STRUCTURE, OVERHANG OR FOOTER.

USE OF DUCTILE IRON ONLY

THE USE OF PVC PIPING ON THIS PROJECT IS PROHIBITED. DUCTILE IRON PIPE SHALL BE USED AND MEET THE REQUIREMENTS OF CMS ITEM 801.

ITEM SPECIAL - SURVEY COORDINATES

"ITEM SPECIAL - SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, HORIZONTAL DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, TRACER WIRE BOXES, AND CASING PIPE TERMINI. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 200 FEET WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2011) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM (GRID), SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (N XXXXXX.XX, E XXXXXX.XX, C/L ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE ENGINEER IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE ENGINEER ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

WATER WORK NOTES

DESIGN AGENCY
EMH&T

DESIGNER
TGW

REVIEWER
RSH 06/12/26

PROJECT ID
120607

SHEET P.60 TOTAL 130

FRA-3-17.44

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:19:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: steal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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FIRE HYDRANT REPLACED OR RELOCATED

NO EXISTING FIRE HYDRANTS TO BE REPLACED OR RELOCATED SHALL BE REMOVED, OR TAKEN OUT OF SERVICE, UNTIL THE NEW WATER MAINS ARE IN SERVICE AND THE NEW FIRE HYDRANTS ARE ACCEPTED BY THE DIVISION OF FIRE. THE CONTRACTOR SHALL CONTACT THE DIVISION OF FIRE AT 645-8673 TO SCHEDULE THE INSPECTION OF THE NEW FIRE HYDRANTS. FOR FIRE HYDRANTS OWNED BY CLINTON TOWNSHIP, CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP FIRE DEPARTMENT REGARDING INSPECTION.

THE DIVISION OF WATER WILL PROVIDE THE CONTRACTOR "OUT OF SERVICE" RINGS THAT SHALL BE PLACED ON ALL NEW HYDRANTS TO CLEARLY IDENTIFY THEM AS INACTIVE. AFTER WRITTEN NOTIFICATION OF ACCEPTANCE HAS BEEN RECEIVED AND FINAL WATER MAIN CONNECTIONS HAVE OCCURRED, THE CONTRACTOR SHALL REMOVE THE "OUT OF SERVICE" RINGS FROM THE NEW FIRE HYDRANTS. ONCE A WATER MAIN IS ABANDONED, THE "OUT OF SERVICE"RINGS SHALL BE PLACED ON THE ABANDONED FIRE HYDRANTS UNTIL THE HYDRANT IS COMPLETELY REMOVED. ALL "OUT OF SERVICE" RINGS SHALL BE RETURNED TO THE DIVISION OF WATER. ALL COORDINATION AND WORK REQUIRED TO TEST AND ACCEPT NEW FIRE HYDRANTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 809.

RELOCATED FIRE HYDRANTS SHALL BE PUT BACK IN SERVICE AS SOON AS POSSIBLE. NO TWO (2) ADJACENT FIRE HYDRANTS SHALL BE TAKEN OUT OF SERVICE CONCURRENTLY.

FIRE HYDRANT RELOCATIONS SHALL CONFORM TO APPLICABLE SECTIONS OF ITEM 809 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WORK SHALL CONSIST OF REMOVING THE EXISTING HYDRANT, INSTALLING NEW 6" PIPE AND FITTING AS REQUIRED TO LOCATE THE FIRE HYDRANT 2 FEET FROM BACK OF PROPOSED CURB OR 8 FEET OFF EDGE OF PAVEMENT, RESETTING HYDRANT AND BLOCKING AS REQUIRED. ALL 6"PIPE SHALL BE INSTALLED AT 4'-0" MINIMUM COVER. HYDRANT EXTENSIONS SHALL BE PROVIDED PER ITEM 810, AS REQUIRED. RELOCATED FIRE HYDRANTS SHALL BE ADJUSTED TO PROPER GRADE AND FACED IN THE PROPER DIRECTION. WHEN A HYDRANT IS RELOCATED FIFTEEN (15) FEET OR MORE FROM THE "TYPICAL HYDRANT SETTING"VALVE LOCATION (SEE L-6409 & L-6637), AN ADDITIONAL VALVE SHALL BE INSTALLED, AND RESTRAINED, WITHIN TWO (2) FEET OF THE RELOCATED HYDRANT. PAYMENT IS TO BE INCLUDED UNDER ITEM 809, FIRE HYDRANT RELOCATED.

FIRE HYDRANT PAINT COLOR

ALL FIRE HYDRANTS TO BE INSTALLED IN THE CITY OF COLUMBUS SHALL BE PAINTED WITH THE COLOR "SAFETY ORANGE". THE FIRE HYDRANTS SHALL BE PROVIDED WITH TWO COATS IN A GLOSS ENAMEL OF THE "SAFETY ORANGE" COLOR FOR THE ENTIRE HYDRANT. THE TOPS OF THE FIRE HYDRANTS ARE NO LONGER REQUIRED TO BE PAINTED BLACK. AFTER INSTALLATION OF FIRE HYDRANTS, THE CONTRACTOR IS RESPONSIBLE TO APPLY TOUCH UP PAINT TO ANY DAMAGE TO THE FACTORY APPLIED HYDRANT PAINT. HYDRANTS WILL NOT BE ACCEPTED UNTIL ANY PAINT DAMAGE FROM SHIPPING OR INSTALLATION HAS BEEN REPAIRED. USE HYDRANT TOUCH UP PAINT IN ACCORDANCE WITH THE APPROVED MATERIALS LIST. THIS GENERAL NOTE SHALL SUPERSEDE THE CURRENT PAINT DESCRIPTION SPECIFIED IN ITEM 809.02 IN THE 2018 CMSC SPECIFICATIONS. FOR FIRE HYDRANTS OWNED BY CLINTON TOWNSHIP, CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP REGARDING FIRE HYDRANT PAINT COLOR.

HYDRANT USAGE

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. THE CONTRACTOR MUST COORDINATE WITH THE DOW PROJECT ENGINEER WHICH HYDRANT IS BEING REQUESTED FOR USE AND GAIN WRITTEN APPROVAL PRIOR TO SUBMITTING THE HYDRANT PERMIT. THE HYDRANT PERMIT IS OBTAINED ONLINE BY ACCESSING HTTP://PORTAL.COLUMBUS.GOV/PERMITS/. THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

HYDRANT USAGE (CONT.)

FOR FIRE HYDRANTS WITHIN THE TOWNSHIP, WRITTEN PERMISSION MUST BE OBTAINED FROM THE TOWNSHIP. THIS WRITTEN PERMISSION MUST BE PROVIDED TO THE CITY OF COLUMBUS PERMIT OFFICE WHEN APPLYING FOR A FIRE HYDRANT PERMIT WITHIN A TOWNSHIP.

FIRE HYDRANT MAINTENANCE

THE BARREL OF ANY FIRE HYDRANT USED BETWEEN THE DATES OF SEPTEMBER 15 AND APRIL 15 SHALL BE PUMPED DRY TO THE FOOT VALVE OF THE HYDRANT OR A MINIMUM OF 5 FEET BELOW SURFACE OF EXISTING GROUND, BY THE CONTRACTOR, IMMEDIATELY AFTER EACH TIME THE HYDRANT IS OPERATED.

WATER SERVICES

ALL WATER METERS ASSOCIATED WITH THIS PROJECT SHALL BE INSTALLED INSIDE THE PROPOSED STRUCTURE UNLESS A METER PIT IS APPROVED BY THE ADMINISTRATOR OF THE DIVISION OF WATER. ALL METER PITS MUST BE APPROVED PRIOR TO THE ISSUING OF ANY SERVICE PERMITS AND MUST CONFORM TO STANDARD DRAWING L-7103 FOR 5/8" THROUGH 1" METERS, OR L-6317 A, B, C, D, & E FOR 1-1/2" OR LARGER METERS.

NO WATER SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY WATER TAPS UNTIL WATER MAINS HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER. WHEN A 3-INCH OR LARGER TAP IS TO OCCUR ON A 20-INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614)-645-7168 TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.

WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.

LONG AND SHORT WATER TAP INSTALLATIONS/WATER SERVICE LINE TRANSFERS

WHERE LONG WATER SERVICE LINE TRANSFERS ARE SPECIFIED, I.E., WATER SERVICE LINES ARE ON THE OPPOSITE SIDE OF THE STREET FROM THE PROPOSED WATER MAIN, THE TAPS SHALL BE INSTALLED BY TRENCHLESS METHODS UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHEN WATER TAPS ARE INSTALLED BY TRENCHLESS METHODS AND CROSS AN EXISTING STORM AND/OR SANITARY SEWER, THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE SEWER(S) BY VIDEO INSPECTION METHODS FOLLOWING THE TAP INSTALLATIONS. COSTS ASSOCIATED WITH THE VIDEO INSPECTION WORK SHALL BE INCLUDED IN THE COST OF THE BID ITEM FOR ITEM SPECIAL VIDEO INSPECTION OF SEWERS. FOR WATER SERVICE LINE TRANSFERS SPECIFIED AS SHORT, THE TAPS MAY BE INSTALLED BY OPEN-CUT METHODS. ALL WORK REQUIRED TO INSTALL THE WATER TAPS AND PERFORM THE WATER SERVICE LINE TRANSFERS SHALL REMAIN WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL FLUSH EACH WATER TAP PRIOR TO MAKING THE SERVICE LINE TRANSFER.

WATER SERVICE LINE TRANSFER AND WATER MAIN ABANDONMENT

WHERE INDICATED ON PLANS, THE EXISTING WATER MAINS SHALL BE ABANDONED AND EXISTING WATER SERVICE LINES OFF THESE MAINS, INDICATED ON THE PLANS AND SHOWN BY HOUSE NUMBER, SHALL BE TRANSFERRED TO THE NEW WATER MAIN. CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING WATER TAPS PRIOR TO BEGINNING THE TAP INSTALLATIONS ON THE NEW MAIN. THE CONTRACTOR MUST KEEP RECORDS OF THE MATERIAL OF THE EXISTING TAP (CITY OWNED SIDE) AND SERVICE (PRIVATE SIDE) AND SUBMIT THEM TO THE CONSTRUCTION ADMINISTRATOR BY THE END OF THE PROJECT. PRIOR TO ABANDONMENT OF EXISTING WATER MAINS, THE PROPOSED NEW WATER MAINS SHALL BE TESTED AND CHLORINATED AND THEN THE EXISTING WATER SERVICE LINES, INDICATED ON THE PLANS AND SHOWN BY HOUSE NUMBER, SHALL BE TRANSFERRED TO THE NEW WATER MAINS. THE CONTRACTOR SHALL FLUSH EACH WATER TAP PRIOR TO MAKING THE SERVICE LINE TRANSFER. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL WATER CUSTOMERS AFFECTED BY TRANSFER OF SERVICE. PAYMENT FOR THE WATER SERVICE LINE TRANSFER WILL NOT BE MADE UNTIL FINAL GRADING AND RESTORATION HAS OCCURRED.

ALL OTHER EXISTING TAPS SHOWN ON THE PLANS AND NOT INDICATED AS WATER SERVICE LINE TRANSFERS SHALL BE ABANDONED IN PLACE.

EXCAVATION PITS LOCATED OUTSIDE OF THE PAVEMENT FOR WATER TAP AND CURB BOX INSTALLATION SHALL BE BACKFILLED IMMEDIATELY. BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND STANDARD DRAWINGS. ALL OTHER SPOILS SHALL BE HAULED OFF SITE. CONTRACTOR IS NOT PERMITTED TO LEAVE THESE PITS OPEN, NOR WILL THE CONTRACTOR BE PERMITTED TO MOUND DIRT ADJACENT TO THE PIT. STEEL PLATES, PLYWOOD, AND/OR OTHER BARRICADES ARE NOT AN ACCEPTABLE ALTERNATE FOR BACKFILLING. TEMPORARY SEEDING AND MULCHING PER ITEM 207 MUST BE PERFORMED WITHIN SEVEN (7) DAYS FROM THE TIME THE GROUND IS DISTURBED. THE PITS SHALL BE RE-EXCAVATED WHEN THE WATER SERVICE LINE TRANSFER IS TO BE MADE. THE PIT SHALL THEN BE BACKFILLED IMMEDIATELY AFTER PERFORMING THE WATER SERVICE LINE TRANSFER. THE AREA MUST BE SEEDED AND MULCHED PER ITEM 659 WITHIN SEVEN (7) DAYS OF THE TRANSFER. TO ENSURE THAT ALL EXISTING WATER SERVICE LINES ARE TRANSFERRED TO THE NEW WATER MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL ALL AFFECTED WATER SERVICE LINES HAVE BEEN TRANSFERRED; THE NEW WATER MAIN IS PUT IN SERVICE; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS.

WATER SERVICE LINE TRANSFERS ARE NOT PERMITTED ON FRIDAYS (OR THURSDAYS IF CONTRACTOR IS ONLY WORKING MONDAY THROUGH THURSDAY) UNLESS THE CONTRACTOR CAN CONFIRM THAT THE CUSTOMER HAS WATER. THIS INCLUDES VERBAL CONFIRMATION WITH THE CUSTOMER AND SHOULD BE ORGANIZED PRIOR TO MAKING THE WATER TAP TRANSFER. ON FRIDAYS (OR THURSDAYS IF CONTRACTOR IS ONLY WORKING MONDAY THROUGH THURSDAY), CONFIRMING WATER SERVICE LINE TRANSFER BY MEANS OF A HOSE BIB ONLY IS NOT PERMITTED. ALL WATER SERVICE LINE TRANSFERS SHALL BE PERFORMED BETWEEN THE HOURS OF 9:00 A.M. AND 5:00 P.M, UNLESS OTHERWISE APPROVED BY THE DIVISION OF WATER ENGINEER.

ALL VISIBLE VALVES BOXES, FIRE HYDRANTS, AND CURB BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. FIRE HYDRANTS WITHIN CITY OF

BRASS FITTINGS

ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.

LEAD TAPS ENCOUNTERED

IF A LEAD WATER TAP IS ENCOUNTERED AND IS NEITHER DAMAGED NOR PART OF A PLANNED RELOCATION/REPLACEMENT, THE CONTRACTOR SHALL REPORT THE PRESENCE OF THE LEAD TAP TO THE DIVISION OF WATER DISTRIBUTION MAINTENANCE GROUP AT 614-645-7788.

LEAD OR GALVANIZED TAPS DAMAGED

IF A LEAD OR GALVANIZED TAP IS EITHER DAMAGED DURING CONSTRUCTION OR IS PART OF A PLANNED WATER TAP RELOCATION/REPLACEMENT, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS:

1. IF DAMAGED, IMMEDIATELY CONTACT LEW FLEMISTER, DIVISION OF WATER, (614-645-7028), TO REQUEST THE SHUT OFF OF THE EXISTING CURB STOP. IF LEW CANNOT BE REACHED, CONTACT THE DOW DISTRIBUTION ENGINEERING OFFICE AT 614-645-7677 TO REQUEST THE SHUT OFF. AS A FINAL OPTION OR ANY TIME AFTER 5:00 PM (AND ON WEEKENDS), CALL THE DOW DISTRIBUTION MAINTENANCE DISPATCH OFFICE AT 614-645-7788 AND ENTER "5" AT THE PROMPT. IN CALL CASES, PLEASE MAKE SURE CONTACT IS MADE WITH SOMEONE AT DOW TO INFORM THEM OF THE SITUATION.
2. CONTRACTOR SHALL EXPOSE THE OWNER'S SIDE OF THE WATER SERVICE TO CONFIRM THE MATERIAL. THE INSPECTOR SHALL BE PRESENT FOR THIS.
3. IF THE CUSTOMER'S PRIVATE SERVICE MATERIAL IS LEAD, STOP WORK AND NOTIFY THE DIVISION OF WATER DISTRIBUTION ENGINEERING OFFICE (614-645-7677) IMMEDIATELY. IF THE MATERIAL IS NOT LEAD, THE CONTRACTOR SHALL REPLACE THE LEAD OR GALVANIZED TAP (FROM EXISTING CORPORATION STOP TO CURB STOP) AND REINSTATE SERVICE TO THE CUSTOMER. PARTIAL REPAIRS OF THE LEAD OR GALVANIZED TAP ARE NOT PERMITTED.
4. REFER TO DIVISION OF WATER STANDARD DRAWINGS L-7102C AND L-9901 FOR INFORMATION ON WATER TAP RELOCATIONS, PLACING NEW CURB STOPS, AND RELOCATING CURB BOXES.

PRIVATE WATER SERVICE LINES

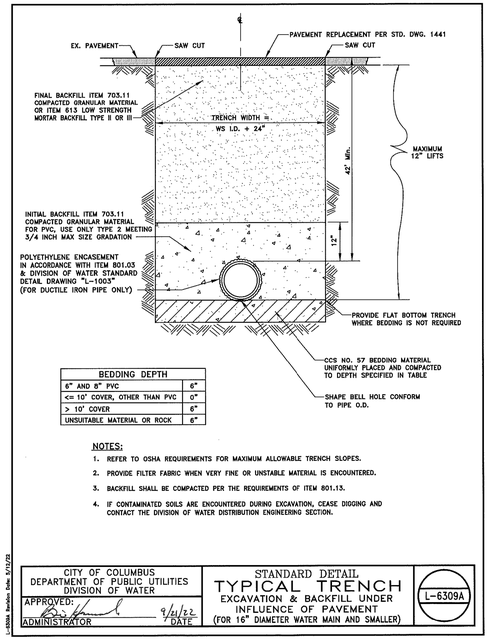
ANY WORK ON THE PRIVATE WATER SERVICE LINE (BETWEEN CURB STOP AND METER) WILL REQUIRE ADDITIONAL INSPECTION BY THE UTILITY METER SERVICES SECTION. CONTRACTOR SHALL CALL 614-645-8276 TO SCHEDULE INSPECTION.

CURB BOX TAPING AND CURB STOP ACCESSIBILITY CHECK

TO PREVENT DEBRIS FROM ENTERING, THE BOTTOM 6-INCHES OF ALL CURB BOXES SHALL BE WRAPPED WITH PVC OUTER WRAP TAPE, AS INCLUDED IN THE APPROVED MATERIALS LIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL NEWLY INSTALLED CURB STOPS FOR ACCESSIBILITY. THIS WORK SHALL BE PERFORMED AFTER PERFORMING THE WATER SERVICE LINE TRANSFER AND AFTER BACKFILL/FINAL RESTORATION OPERATIONS. THE CHECK SHALL BE WITNESSED AND DOCUMENTED BY THE INSPECTOR. THE CURB STOP SHALL HAVE THE KEY PLACED UPON IT TO MAKE SURE IT IS ACCESSIBLE, BUT THE CONTRACTOR SHALL NOT TURN THE CURB STOP. THE CURB BOX SHALL ALSO BE FREE OF DEBRIS, AND THE LID TO THE BOX SHALL BE TO GRADE. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE VARIOUS WATER MAIN ITEMS.

DESIGN AGENCY
EMH&T
DESIGNER TGW
REVIEWER RSH 06/12/26
PROJECT ID 120607
SHEET P.61 TOTAL 130

FRA-3-17.44
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:20:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: steal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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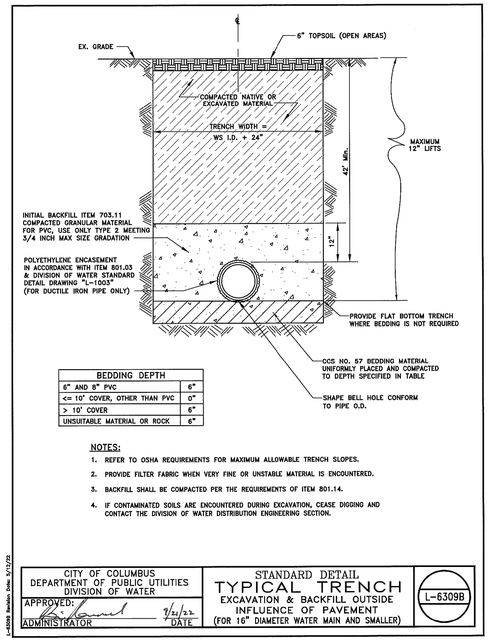
BEDDING DEPTH	
6" AND 8" PVC	6"
<= 10' COVER, OTHER THAN PVC	0"
> 10' COVER	6"
UNSUITABLE MATERIAL OR ROCK	6"

NOTES:

1. REFER TO OSHA REQUIREMENTS FOR MAXIMUM ALLOWABLE TRENCH SLOPES.
2. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED.
3. BACKFILL SHALL BE COMPACTED PER THE REQUIREMENTS OF ITEM 801.13.
4. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING EXCAVATION, CEASE DIGGING AND CONTACT THE DIVISION OF WATER DISTRIBUTION ENGINEERING SECTION.

L-6309A Bedding Table, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL TRENCH EXCAVATION & BACKFILL UNDER INFLUENCE OF PAVEMENT (FOR 16" DIAMETER WATER MAIN AND SMALLER)	L-6309A
APPROVED: ADMINISTRATOR 9/21/22 DATE		



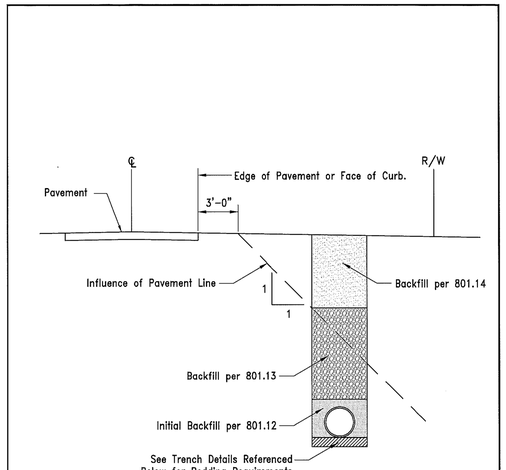
BEDDING DEPTH	
6" AND 8" PVC	6"
<= 10' COVER, OTHER THAN PVC	0"
> 10' COVER	6"
UNSUITABLE MATERIAL OR ROCK	6"

NOTES:

1. REFER TO OSHA REQUIREMENTS FOR MAXIMUM ALLOWABLE TRENCH SLOPES.
2. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED.
3. BACKFILL SHALL BE COMPACTED PER THE REQUIREMENTS OF ITEM 801.14.
4. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING EXCAVATION, CEASE DIGGING AND CONTACT THE DIVISION OF WATER DISTRIBUTION ENGINEERING SECTION.

L-6309B Bedding Table, Date: 5/13/25

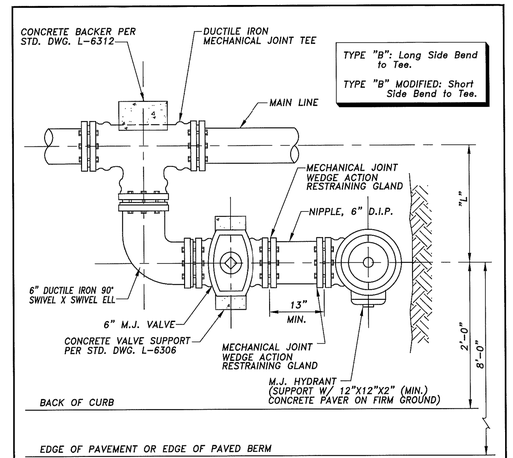
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL TRENCH EXCAVATION & BACKFILL OUTSIDE INFLUENCE OF PAVEMENT (FOR 16" DIAMETER WATER MAIN AND SMALLER)	L-6309B
APPROVED: ADMINISTRATOR 9/21/22 DATE		



For Trench Details See L-6309A, L-6309B, L-6309C & L-6309D.

L-6309E Backfill, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL INFLUENCE OF PAVEMENT BACKFILLING WITHIN R/W FOR WATER MAIN AND WATER TAP REPAIRS	L-6309E
APPROVED: ADMINISTRATOR 9/21/22 DATE		



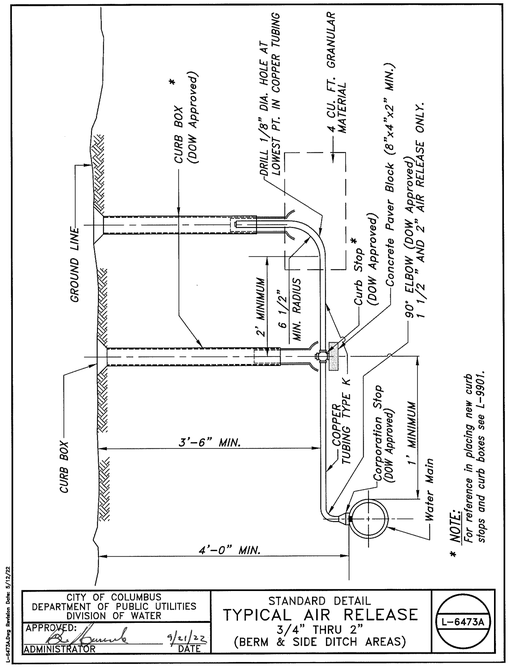
MAIN LINE	DIMENSION "L" TYPE "B"	TYPE "B" MOD.
6"	24"	19"
8"	25"	20"
12"	28"	23"
16"	31"	26"
20"	33"	28"
24"	36"	31"
30"	39"	34"

NOTES:

1. FIRE HYDRANT SHALL HAVE A MAXIMUM BURY OF 7'-0". MODIFICATION OF THE HYDRANT LEAD TO MEET THIS REQUIREMENT SHALL BE IN THAT SECTION FROM THE VALVE TO THE HYDRANT AS PER STANDARD DETAIL L-7601.
2. FIRE HYDRANTS SHALL BE SET A MINIMUM OF 6' FROM RESIDENTIAL DRIVEWAY OPENINGS, AND 10' FROM COMMERCIAL DRIVEWAY OPENINGS.
3. WEDGE TYPE BELL RESTRAINT HARNESS TO BE USED IF JOINT IS NEEDED IN HYDRANT LEAD.

L-6409 A3ng Bedding Table, 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL HYDRANT SETTING TYPE "B" AND "B" MODIFIED FOR MECHANICAL JOINT TEES	L-6409A
APPROVED: ADMINISTRATOR 9/21/22 DATE		



L-6473A Detail, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL AIR RELEASE 3/4" THRU 2" (BERM & SIDE DITCH AREAS)	L-6473A
APPROVED: ADMINISTRATOR 9/21/22 DATE		

LENGTH OF PIPE	GALLONS PER HOUR 6" Pipe	8" Pipe	12" Pipe	16" Pipe	20" Pipe	24" Pipe	30" Pipe	36" Pipe	42" Pipe	48" Pipe	54" Pipe	60" Pipe	66" Pipe
50	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.15	0.17	0.20	0.22	0.25	0.27
100	0.05	0.07	0.10	0.13	0.17	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55
200	0.10	0.13	0.20	0.26	0.33	0.40	0.50	0.60	0.70	0.79	0.89	0.99	1.09
300	0.15	0.20	0.30	.040	0.50	0.60	0.74	0.89	1.04	1.19	1.34	1.49	1.64
400	0.20	0.26	0.40	0.53	0.66	0.79	0.99	1.19	1.39	1.59	1.79	1.99	2.18
500	0.25	0.33	0.50	0.66	0.83	0.99	1.24	1.49	1.74	1.99	2.23	2.48	2.73
600	0.30	0.40	0.60	0.79	0.99	1.19	1.49	1.79	2.09	2.38	2.68	2.98	3.28
700	0.35	0.46	0.70	0.93	1.16	1.39	1.74	2.09	2.43	2.78	3.13	3.48	3.82
800	0.40	0.53	0.79	1.06	1.32	1.59	1.99	2.38	2.78	3.18	3.57	3.97	4.37
900	0.45	0.60	0.89	1.19	1.49	1.79	2.23	2.68	3.13	3.57	4.02	4.47	4.92
1000	0.50	0.66	0.99	1.32	1.66	1.99	2.48	2.98	3.48	3.97	4.47	4.97	5.46
2500	1.24	1.66	2.48	3.31	4.14	4.97	6.21	7.45	8.69	9.93	11.17	12.41	13.65
5000	2.48	3.31	4.97	6.62	8.28	9.93	12.41	14.90	17.38	19.86	22.34	24.83	27.31
7500	3.72	4.97	7.45	9.93	12.41	14.90	18.62	22.34	26.07	29.79	33.51	37.24	40.96
10000	4.97	6.62	9.93	13.24	16.55	19.86	24.83	29.79	34.76	39.72	44.69	49.65	54.62

FORMULA: $L = \frac{SD\sqrt{P}}{148{,}000}$

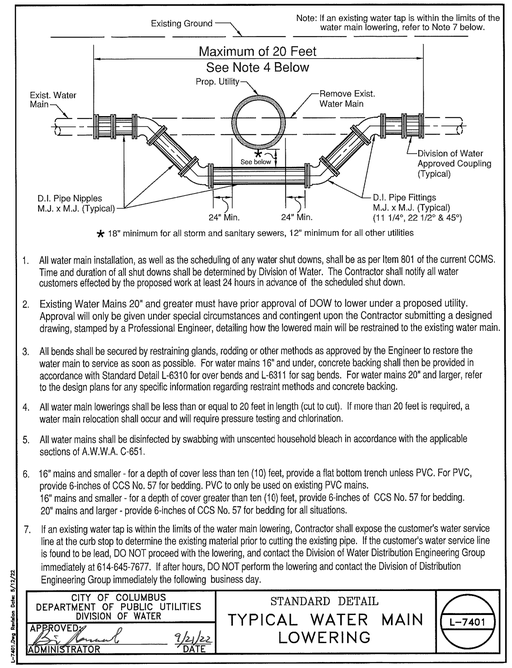
Where:
L = Allowable Leakage (gal./hr.)
S = Length of pipe tested in feet.
D = Nominal pipe diameter in inches.
P = Test pressure (150 psi)

When testing against closed metal-seated valves, an additional leakage per closed valve of 0.0078 gal./hr./in. of nominal valve size will be allowed.

These calculations are based on "AWWA C-600-17" Specifications, Section 5.2, Hydrostatic Testing, Dated July 1, 2017.

L-6640 Detail, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL ALLOWABLE LEAKAGE TABLE	L-6640
APPROVED: ADMINISTRATOR 9/21/22 DATE		

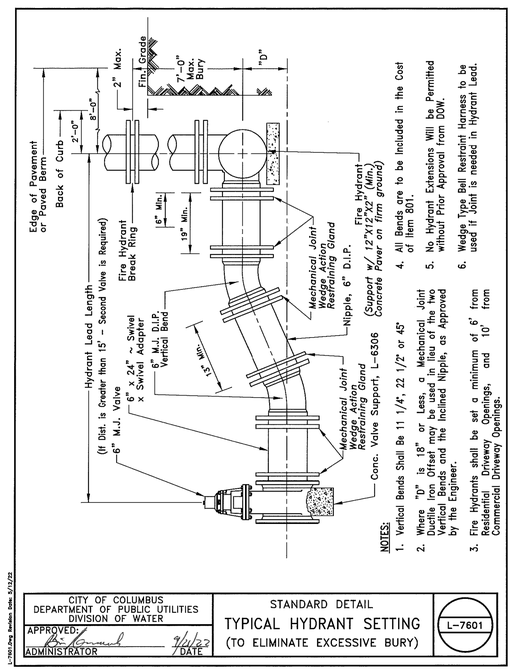


* 18" minimum for all storm and sanitary sewers, 12" minimum for all other utilities

1. All water main installation, as well as the scheduling of any water shut downs, shall be as per Item 801 of the current CCMS. Time and duration of all shut downs shall be determined by Division of Water. The Contractor shall notify all water customers effected by the proposed work at least 24 hours in advance of the scheduled shut down.
2. Existing Water Mains 20" and greater must have prior approval of DOW to lower under a proposed utility. Approval will only be given under special circumstances and contingent upon the Contractor submitting a designed drawing, stamped by a Professional Engineer, detailing how the lowered main will be restrained to the existing water main.
3. All bends shall be secured by restraining glands, rodding or other methods as approved by the Engineer to restore the water main to service as soon as possible. For water mains 16" and under, concrete backing shall then be provided in accordance with Standard Detail L-6310 for over bends and L-6311 for sag bends. For water mains 20" and larger, refer to the design plans for any specific information regarding restraint methods and concrete backing.
4. All water main lowerings shall be less than or equal to 20 feet in length (cut to cut). If more than 20 feet is required, a water main relocation shall occur and will require pressure testing and chlorination.
5. All water mains shall be disinfected by swabbing with unscented household bleach in accordance with the applicable sections of A.W.W.A. C-651.
6. 16" mains and smaller - for a depth of cover less than ten (10) feet, provide a flat bottom trench unless PVC. For PVC, provide 6-inches of CCS No. 57 for bedding. PVC to only be used on existing PVC mains.
   16" mains and smaller - for a depth of cover greater than ten (10) feet, provide 6-inches of CCS No. 57 for bedding.
   20" mains and larger - provide 6-inches of CCS No. 57 for bedding for all situations.
7. If an existing water tap is within the limits of the water main lowering, Contractor shall expose the customer's water service line at the curb stop to determine the existing material prior to cutting the existing pipe. If the customer's water service line is found to be lead, DO NOT proceed with the lowering, and contact the Division of Water Distribution Engineering Group immediately at 614-645-7677. If after hours, DO NOT perform the lowering and contact the Division of Distribution Engineering Group immediately the following business day.

L-7401 Detail, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL WATER MAIN LOWERING	L-7401
APPROVED: ADMINISTRATOR 9/21/22 DATE		



NOTES:

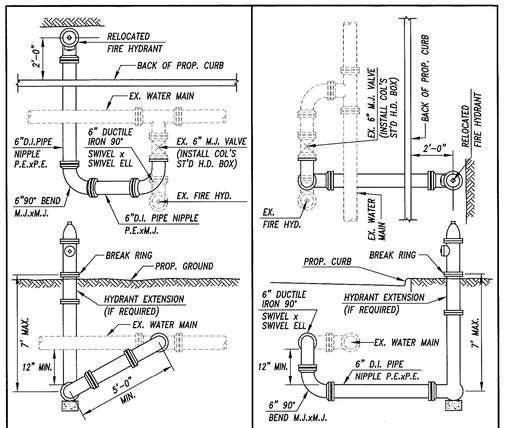
1. Vertical Bends Shall Be 11 1/4°, 22 1/2° or 45°
2. Where "D" is 18" or Less, a Mechanical Joint Ductile Iron Offset may be used in lieu of the two Vertical Bends and the Inclined Nipple, as Approved by the Engineer.
3. Fire Hydrants shall be set a minimum of 6' from Residential Driveway Openings, and 10' from Commercial Driveway Openings.
4. All Bends are to be Included in the Cost of Item 801.
5. No Hydrant Extensions Will be Permitted without Prior Approval from DOW.
6. Wedge Type Bell Restraint Harness to be used if Joint is needed in Hydrant Lead.

L-7601 Detail, Date: 5/13/25

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TYPICAL HYDRANT SETTING (TO ELIMINATE EXCESSIVE BURY)	L-7601
APPROVED: ADMINISTRATOR 9/21/22 DATE		

DESIGN AGENCY: EMH&T
DESIGNER: TGW
REVIEWER: RSH 06/12/26
PROJECT ID: 120607
SHEET: P.62 TOTAL: 130

FRA-3-17.44
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TYPE "A" RELOCATION **TYPE "B" RELOCATION**

1. ALL FIRE HYDRANTS SHALL BE ADJUSTED TO FINAL GRADE.
2. FIRE HYDRANT RELOCATIONS SHALL CONFORM TO APPLICABLE SECTIONS OF C.M.S.C. ITEM 809. WORK SHALL CONSIST OF REMOVING HYDRANT, INSTALLING NEW 6" PIPE & FITTINGS AS REQUIRED TO SET HYDRANT 2' BACK OF CURB OR 8' OFF THE EDGE OF PAVEMENT, RESETTING HYDRANT AND CONCRETE BLOCKING AS REQUIRED. HYDRANT & FITTINGS SHALL BE RESTRAINED, ACCORDING TO STANDARD HYDRANT DETAILS.
3. THE DIVISION OF WATER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION INVOLVING WATER FACILITIES.
4. ALL EX. VALVES SHALL BE OPERATED BY DIVISION OF WATER PERSONNEL ONLY, AS STATED IN CHAPTER 1113 OF THE COLUMBUS CITY CODES & ITEM 801.18.
5. BACKFILLING OF ALL WATER LINE TRENCHES AND EXCAVATIONS SHALL BE IN ACCORDANCE WITH ITEM 801 OF THE C.M.S.C.. NO GRITS WILL BE PERMITTED IN WATER LINE TRENCH BACKFILL.
6. SHOULD THE RELOCATED HYD. BE MORE THAN 15' FROM THE EXIST. HYD. VALVE THEN AN ADDITIONAL 6" M.J. VALVE SHALL BE INSTALLED, AND RESTRAINED, WITHIN 2' OF THE RELOCATED HYDRANT. IF IN CURB AREA USE CONFIGURATION PER L-6637C.

L-8502.Dwg Revision Date: 9/13/22

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 7/21/22 DATE

STANDARD DETAIL
TYPICAL
HYDRANT RELOCATION

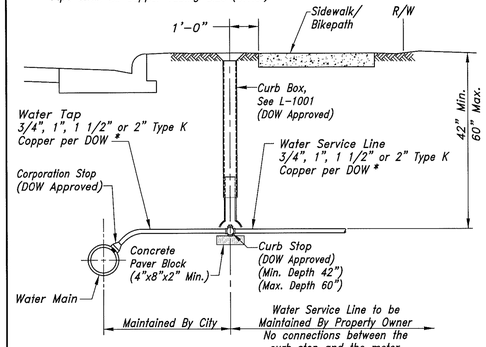
L-8502

NOTES:

The Curb Box shall be placed 1'-0" from the streetedge of the proposed or existing sidewalk/bikepath.

The Curb Stop Shall Be Installed with Valve Opening Facing the Structure to be served. The Curb Stop Shall Turn "1/4 Turn" Clockwise From On to Off Position. (Typical)

** NOTE:*
Pipe Shall Be Copper Tubing Size (C.T.S.)



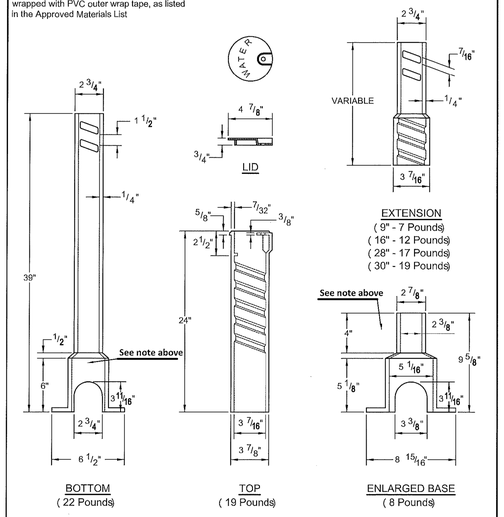
L-9901.Dwg Revision Date: 9/13/22

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 9/21/22 DATE

STANDARD DETAIL
CURB BOX INSTALLATION
3/4" THRU 2"

L-9901

Note: The bottom 6 inches of the box shall be wrapped with PVC outer wrap tape, as listed in the Approved Materials List



L-1001.Dwg Revision Date: 9/13/22

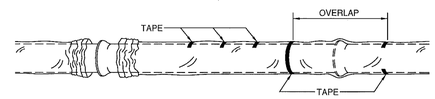
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 9/21/22 DATE

STANDARD DETAIL
TYPICAL CURB BOX

L-1001

MATERIAL SPECIFICATIONS PER AWWA C-105
LINEAR LOW-DENSITY POLYETHYLENE FILM WITH MIN. 8 MIL. THICKNESS, MADE FROM VIRGIN POLYETHYLENE ONLY.

TUBE SIZE REQUIRED											
PIPE DIAMETER	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"
MIN. FLAT TUBE WIDTH (INCHES)	14	14	16	20	24	27	34	41	54	67	81	81



THE FOLLOWING METHOD ILLUSTRATES THE PROCEDURE FOR APPLYING POLYETHYLENE:

CUT POLYETHYLENE TUBE TO A LENGTH APPROXIMATELY TWO FEET LONGER THAN THE LENGTH OF THE PIPE SECTION, SLIP THE TUBE AROUND THE PIPE, CENTERING IT TO PROVIDE A ONE-FOOT OVERLAP ON EACH ADJACENT PIPE SECTION, AND BUNCHING IT ACCORDION FASHION LENGTHWISE UNTIL IT CLEARS THE PIPE ENDS.

LOWER THE PIPE INTO THE TRENCH AND MAKE THE PIPE JOINT WITH THE PRECEDING SECTION OF PIPE. A SHALLOW BELL HOLE MUST BE MADE AT THE JOINTS TO FACILITATE INSTALLATION OF THE POLYETHYLENE TUBE.

AFTER ASSEMBLING THE PIPE JOINT, MAKE THE OVERLAP OF THE POLYETHYLENE TUBE, PULL THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE, SLIP IT OVER THE END OF THE NEW LENGTH OF PIPE AND SECURE IT IN PLACE. THEN SLIP THE END OF THE POLYETHYLENE FROM THE NEW PIPE SECTION OVER THE END OF THE PRECEDING LENGTH OF PIPE, SECURE THE OVERLAP IN PLACE, TAKE UP THE SLACK WIDTH TO MAKE IT SNUG, BUT NOT TOO TIGHT, FIT ALONG THIS BARREL OF PIPE, SECURING THE FOLD AT QUARTER POINTS.

REPAIR ANY RIPS, PUNCTURES, OR OTHER DAMAGE TO THE POLYETHYLENE WITH ADHESIVE TAPE OR WITH A SHORT LENGTH OF THE POLYETHYLENE TUBE CUT OPEN, WRAPPED AROUND THE PIPE, AND SECURED IN PLACE. PROCEED WITH INSTALLATION OF THE NEXT SECTION OF PIPE IN THE SAME MANNER.

PIPE-SHAPED APPURTENANCES

BENDS, REDUCERS, OFFSETS AND OTHER PIPE-SHAPED APPURTENANCES SHALL BE COVERED IN THE SAME MANNER AS THE PIPE.

JUNCTIONS BETWEEN WRAPPED AND UNWRAPPED PIPE

WHERE POLYETHYLENE WRAPPED PIPE JOINS A PIPE WHICH IS NOT WRAPPED, EXTEND THE POLYETHYLENE TUBE TO COVER THE UNWRAPPED PIPE A DISTANCE OF AT LEAST TWO FEET. SECURE THE END WITH CIRCUMFERENTIAL TURNS OF TAPE.

ODD SHAPED APPURTENANCES:

VALVES, TEES, CROSSES AND OTHER ODD-SHAPED PIECES WHICH CANNOT BE WRAPPED PRACTICALLY IN A TUBE SHALL BE WRAPPED WITH A FLAT SHEET OR SPLIT LENGTH OF POLYETHYLENE TUBE. THE SHEET SHALL BE PASSED UNDER THE APPURTENANCE AND BROUGHT UP AROUND THE BODY. SEAMS SHALL BE MADE BY BRINGING THE EDGES TOGETHER, FOLDING OVER TWICE, AND TAPPING DOWN. SLACK WIDTH AND OVERLAPS AT JOINTS SHALL BE HANDLED AS DESCRIBED ABOVE. TAPE POLYETHYLENE SECURELY IN PLACE AT VALVE STEM AND OTHER PENETRATIONS.

BACKFILL FOR POLYETHYLENE WRAPPED PIPE:

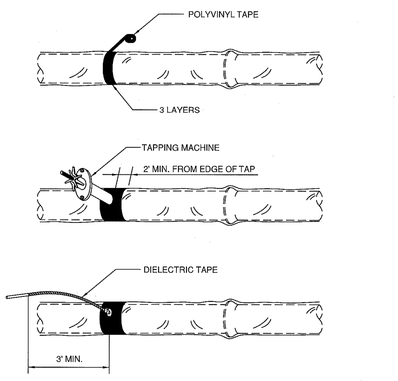
BACKFILL MATERIAL SHALL BE THE SAME AS SPECIFIED FOR PIPE WITHOUT POLYTHYLENE WRAPPING. SPECIAL CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO THE POLYETHYLENE WRAPPING WHEN PLACING BACKFILL. BACKFILL MATERIAL SHOULD BE FREE OF CINDERS, REFUSE, BOULDERS, ROCKS, STONES OR OTHER MATERIAL THAT COULD DAMAGE POLYETHYLENE.

L-1003.Dwg Revision Date: 1/25/13

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 1-26-18 DATE

STANDARD DETAIL
INSTALLATION OF
POLYETHYLENE ENCASEMENT
FOR DUCTILE IRON PIPE

L-1003



OPENINGS FOR WATER TAPS, BLOW-OFFS, AIR RELEASE VALVES AND SIMILIAR APPURTENANCES SHALL BE MADE OF:

1.) *WRAPPING (3) THREE LAYERS OF POLYVINYL - COMPATIBLE ADHESIVE TAPE COMPLETELY AROUND THE PIPE TO COVER THE AREA WHERE THE TAPPING MACHINE AND CHAIN WILL BE MOUNTED, EXTENDING A MINIMUM OF 2" BEYOND THE MOUNTING SURFACE.*

2.) *MOUNT THE TAPPING MACHINE ON THE PIPE AREA COVERED BY THE TAPE AND MAKE THE TAP AND INSTALL THE CORPORATION STOP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE.*

3.) *INSPECT THE ENTIRE CIRCUMFERENTIAL AREA FOR DAMAGE AND MAKE ANY NECESSARY REPAIRS WITH TAPE.*

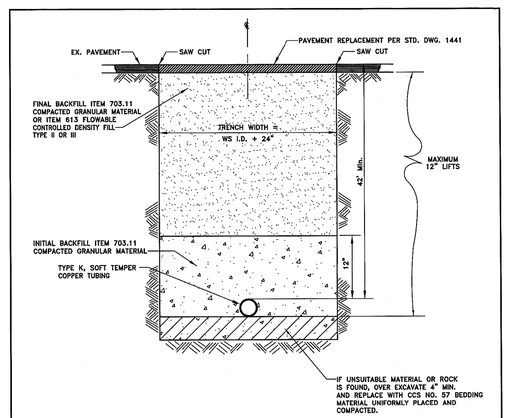
4.) *TO MINIMIZE THE POSSIBILITY OF DISSIMILAR METAL CORROSION AT SERVICE CONNECTIONS, WRAP THE CORPORATION STOP AND A MINIMUM CLEAR DISTANCE OF THREE FEET OF THE COPPER WATER TAP WITH POLYETHYLENE OR A SUITABLE DIELECTRIC TAPE.*

L-1004.Dwg Revision Date: 1/15/18

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 1-26-18 DATE

STANDARD DETAIL
INSTALLATION OF
POLYETHYLENE ENCASEMENT FOR WATER TAPS, BLOW-OFFS, AIR RELEASE VALVES & SIMILIAR APPURTENANCES

L-1004



NOTES:

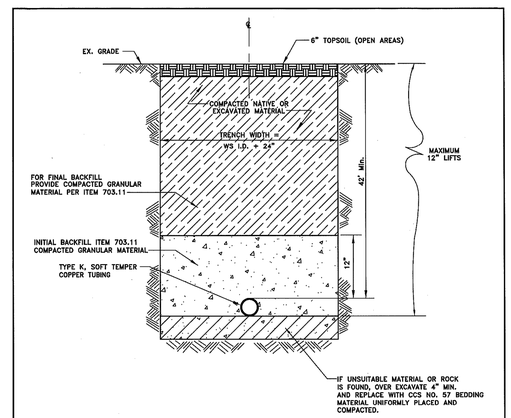
1. REFER TO OSHA REQUIREMENTS FOR MAXIMUM ALLOWABLE TRENCH SLOPES.
2. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED.
3. BACKFILL SHALL BE COMPACTED PER THE REQUIREMENTS OF ITEM 801.12.
4. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING EXCAVATION, CEASE DIGGING AND CONTACT THE DIVISION OF WATER DISTRIBUTION ENGINEERING SECTION.

L-1701A.Dwg Revision Date: 1/15/18

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 1-26-18 DATE

STANDARD DETAIL
TYPICAL TRENCH
EXCAVATION & BACKFILL UNDER INFLUENCE OF PAVEMENT
(FOR 2" AND SMALLER WATER TAPS)

L-1701A



NOTES:

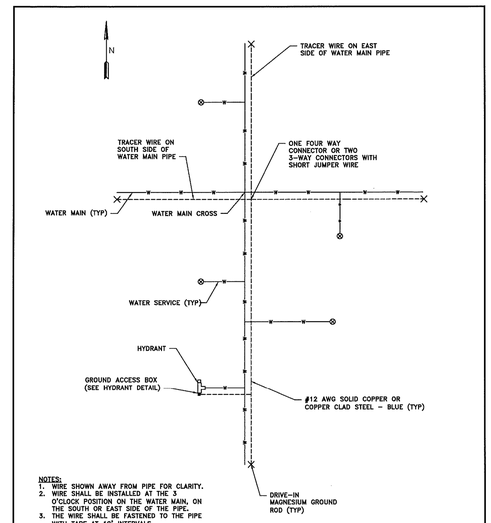
1. REFER TO OSHA REQUIREMENTS FOR MAXIMUM ALLOWABLE TRENCH SLOPES.
2. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED.
3. BACKFILL SHALL BE COMPACTED PER THE REQUIREMENTS OF ITEM 801.12.
4. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING EXCAVATION, CEASE DIGGING AND CONTACT THE DIVISION OF WATER DISTRIBUTION ENGINEERING SECTION.

L-1701B Dwg Revision Date: 1/15/18

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 1-26-18 DATE

STANDARD DETAIL
TYPICAL TRENCH
EXCAVATION & BACKFILL OUTSIDE INFLUENCE OF PAVEMENT
(FOR 2" AND SMALLER WATER TAPS)

L-1701B



NOTES:

1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY.
2. WIRE SHALL BE INSTALLED AT THE 3 O'CLOCK POSITION ON THE WATER MAIN, ON THE SOUTH OR EAST SIDE OF THE PIPE.
3. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE AT 10' INTERVALS.
4. GROUND RODS SHALL BE INSTALLED AT ALL TRACER WIRE DEAD-ENDS.

PLAN VIEW
NO SCALE

L-2201A Dwg Revision Date: 9/13/22

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER
APPROVED: ADMINISTRATOR 9/21/22 DATE

STANDARD DETAIL
TRACER WIRE
PLAN VIEW

L-2201A

WATER WORK DETAILS

DESIGN AGENCY
EMH&T

DESIGNER
TGW

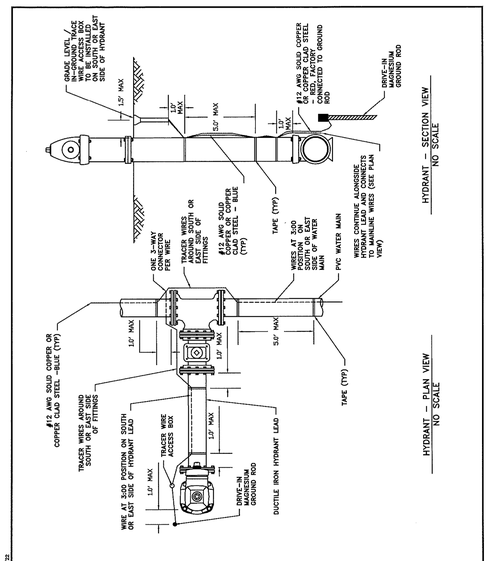
REVIEWER
RSH 06/12/26

PROJECT ID
120607

SHEET P.63 TOTAL 130

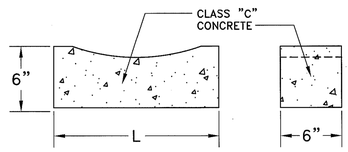
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CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL TRACER WIRE HYDRANT DETAIL	L-2201B
APPROVED: ADMINISTRATOR 7/25/22 DATE		

L-2201B.dwg Detailer Date: 7/21/22



SIZE OF VALVE	L	VOLUME CU-FT
3"	15"	0.31
4"	16"	0.33
6"	17"	0.36
8"	20"	0.42
12"	24"	0.50
16"	30"	0.63
20"	36"	0.75
24"	42"	0.88
30"	48"	1.00
36"	54"	1.13
42"	60"	1.25
48"	66"	1.38

GATE VALVES

BUTTERFLY VALVES

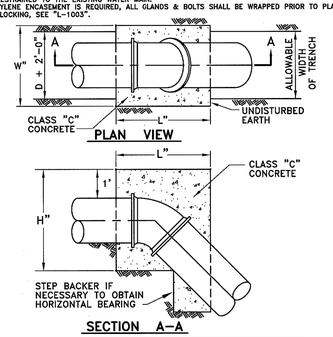
NOTE:
FOR VALVES LARGER THAN 48" THE SUPPORT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL CONCRETE VALVE SUPPORTS	L-6306
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6306.dwg Detailer Date: 1/2/13

PIPE SIZE	11.25°				22.5°				45°			
	L"	W"	H"	Vol.	L"	W"	H"	Vol.	L"	W"	H"	Vol.
3"	12	18	12	1.5	13	25	16	3.0	18	30	19	5.9
4"	12	24	16	2.6	16	30	18	5.0	22	36	24	11.0
6"	12	48	18	6.0	15	43	36	13.4	30	55	24	22.9
8"	12	63	24	10.5	18	57	34	20.2	36	57	33	39.2
12"	20	54	36	22.6	37	62	37	49.0	48	62	51	87.9
16"	31	65	38	44.3	60	65	39	88.1	65	65	65	159.2

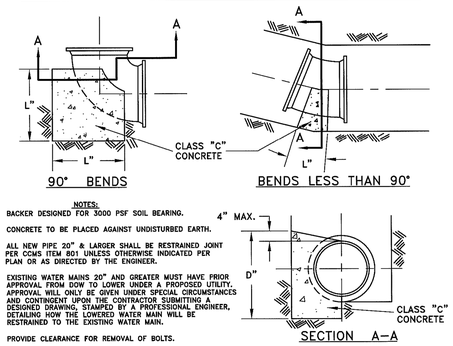
NOTES:
1. VOLUMES GIVEN IN CUBIC FEET.
2. BACKER TO BE CENTERED HORIZONTALLY ON BEND.
3. STEEL WILL BE USED AS REQUIRED BY THE ENGINEER.
4. ALL NEW PIPE 20" & LARGER SHALL BE RESTRAINED JOINT PER CCMS ITEM 801 UNLESS OTHERWISE PER PLAN OR AS DIRECTED BY THE ENGINEER.
5. EXISTING WATER MAINS 20" AND GREATER MUST HAVE PRIOR APPROVAL FROM DOW TO LOWER UNDER A PROPOSED UTILITY. APPROVAL WILL ONLY BE GIVEN UNDER SPECIAL CIRCUMSTANCES AND CONTINGENT UPON THE CONTRACTOR SUBMITTING A DESIGNED DRAWING, STAMPED BY A PROFESSIONAL ENGINEER, DETAILING HOW THE LOWERED WATER MAIN WILL BE RESTRAINED TO THE EXISTING WATER MAIN.
6. WHERE POLYETHYLENE ENCASEMENT IS REQUIRED, ALL GLANDS & BOLTS SHALL BE WRAPPED PRIOR TO PLACEMENT OF CONCRETE BLOCKING, SEE "L-1003".



CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL BACKING FOR VERTICAL BENDS (OVER BENDS ONLY)	L-6310
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6310.dwg Detailer Date: 1/15/18

SIZE OF PIPE	DEGREE OF BEND											
	11.25°			22.50°			45°			90° (HORZ. ONLY)		
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.
3"	4	3	0.1	6	4	0.2	10	4	0.3	10	4	0.3
4"	5	4	0.2	9	5	0.4	14	5	0.6	14	5	0.6
6"	8	6	0.5	12	7	0.7	20	8	1.4	18	9	1.7
8"	9	8	0.7	16	9	1.4	24	12	2.7	25	11	4.0
12"	14	12	1.8	24	14	3.6	36	18	6.8	32	18	10.7
16"	18	16	3.4	32	18	6.7	36	32	13.4	41	26	25.6
STEEL WILL BE USED AS REQUIRED BY ENGINEER												

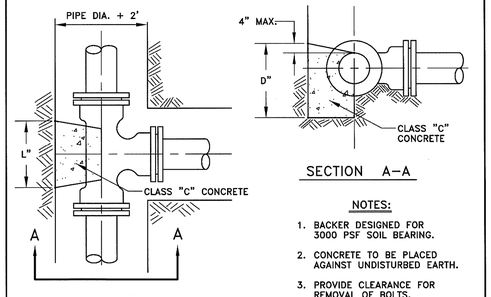


NOTES:
1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. ALL NEW PIPE 20" & LARGER SHALL BE RESTRAINED JOINT PER CCMS ITEM 801 UNLESS OTHERWISE INDICATED PER PLAN OR AS DIRECTED BY THE ENGINEER.
4. EXISTING WATER MAINS 20" AND GREATER MUST HAVE PRIOR APPROVAL FROM DOW TO LOWER UNDER A PROPOSED UTILITY. APPROVAL WILL ONLY BE GIVEN UNDER SPECIAL CIRCUMSTANCES AND CONTINGENT UPON THE CONTRACTOR SUBMITTING A DESIGNED DRAWING, STAMPED BY A PROFESSIONAL ENGINEER, DETAILING HOW THE LOWERED WATER MAIN WILL BE RESTRAINED TO THE EXISTING WATER MAIN.
5. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL BACKING FOR BENDS HORIZONTAL AND VERTICAL SAG	L-6311
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6311.dwg Detailer Date: 1/15/18

RUN	BRANCH																							
	3"			4"			6"			8"			12"			16"			20"			24"		
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.
3"	12	5	0.5																					
4"	10	6	0.5	11	8	0.8																		
6"	9	7	0.5	11	8	0.8	18	12	1.9															
8"	8	8	0.5	10	9	0.7	18	12	1.9	23	16	3.5												
12"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7									
16"							14	16	2.0	20	18	3.3	36	23	8.7	49	30	13.6						
20"							11	20	1.9	18	20	3.3	35	24	8.7	46	32	13.6	60	38	26.5			
24"							9	24	1.9	15	24	3.3	30	28	8.7	42	36	14.0	54	42	26.3	68	48	45.4
STEEL WILL BE USED AS REQUIRED BY THE ENGINEER																								



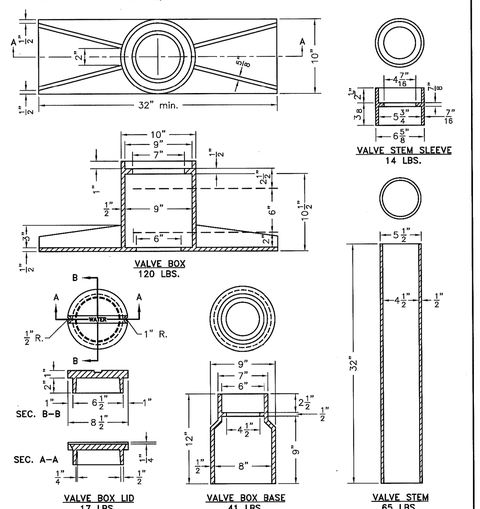
NOTES:
1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL BACKING FOR TEES	L-6312
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6312.dwg Detailer Date: 1/2/13

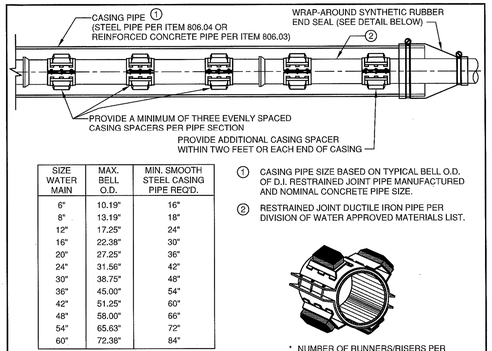
NOTE:
AVERAGE WEIGHTS TO NEAREST EVEN LB. CALCULATED USING 0.26 LB/CU. IN.

NOTE:
NO MORE THAN ONE VALVE STEM SLEEVE PERMITTED PER VALVE SETTING.



CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL COLUMBUS STANDARD HEAVY DUTY VALVE BOX	L-6316A
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6316A.dwg Detailer Date: 1/2/13

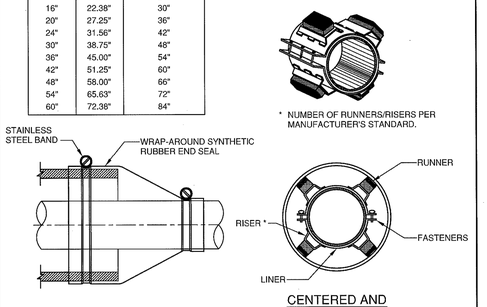


SIZE WATER MAIN	MAX. BELL O.D.	MIN. SMOOTH STEEL CASING PIPE REQD.
6"	10.19"	16"
8"	13.19"	18"
12"	17.25"	24"
16"	22.38"	30"
20"	27.25"	36"
24"	31.56"	42"
30"	38.75"	48"
36"	45.00"	54"
42"	51.25"	60"
48"	58.00"	66"
54"	65.63"	72"
60"	72.38"	84"

1 CASING PIPE SIZE BASED ON TYPICAL BELL O.D. OF D.I. RESTRAINED JOINT PIPE MANUFACTURED AND NOMINAL CONCRETE PIPE SIZE.

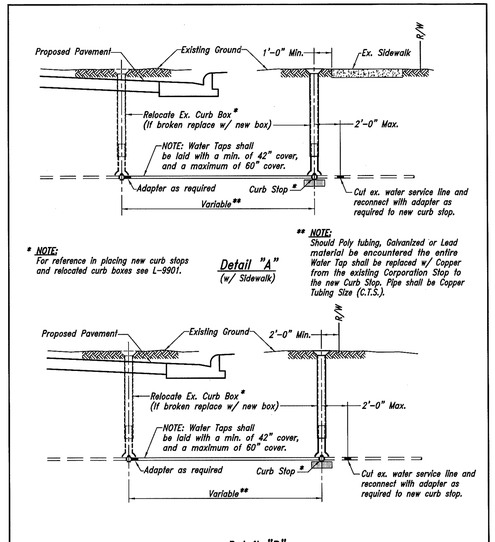
2 RESTRAINED JOINT DUCTILE IRON PIPE PER DIVISION OF WATER APPROVED MATERIALS LIST.

* NUMBER OF RUNNERS/RISERS PER MANUFACTURER'S STANDARD.



CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL CASING PIPE, SPACERS AND END SEALS	L-6324
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-6324.dwg Detailer Date: 1/15/18



* NOTE:
For reference in placing new curb stops and relocated curb boxes see L-9901.

Detail "A"
(w/ Sidewalk)

** NOTE:
Should Poly tubing, Galvanized or Lead material be encountered the entire Water Tap shall be replaced w/ Copper from the existing Corporation Stop to the new Curb Stop. Pipe shall be Copper Tubing Size (C.T.S.).

Detail "B"
(w/o Sidewalk)

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL WATER TAP EXTENSION AND CURB BOX RELOCATION	L-7102A
APPROVED: R C Westenfeld 1-26-18 ADMINISTRATOR DATE		

L-7102A.dwg Detailer Date: 1/15/18

WATER WORK DETAILS

DESIGN AGENCY
EMH&T

DESIGNER
TGW

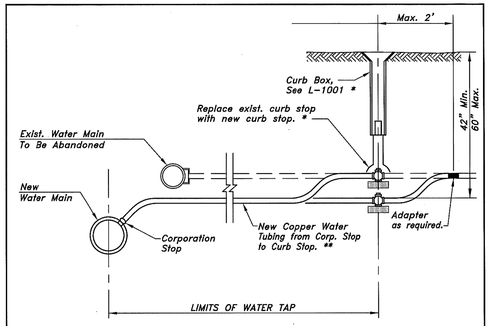
REVIEWER
RSH 06/12/26

PROJECT ID
120607

SHEET P.64 TOTAL 130

FRA-3-17.44

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ALL WATER TAPS 2 INCHES AND UNDER SHALL BE TYPE "K" COPPER MEETING THE REQUIREMENTS OF SECTION 805.03.

CONTRACTOR SHALL REPLACE ANY DAMAGED CURB BOX ENCOUNTERED IN TRANSFERRING WATER SERVICE LINES AS DETERMINED BY THE ENGINEER. REFER TO THE GENERAL NOTES FOR ESTIMATED CONTINGENCY QUANTITIES WHICH HAVE BEEN INCLUDED IN THE QUANTITY SUMMARY FOR REPLACING DAMAGED CURB BOXES.

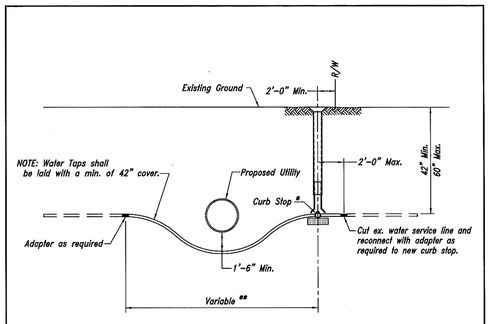
ANY CURB BOXES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

* FOR REFERENCE IN PLACING NEW CURB STOPS AND CURB BOXES SEE "L-9901".

** PIPE SHALL BE COPPER TUBING SIZE (C.T.S.)

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL ITEM 805 WATER SERVICE LINE TRANSFER	L-7102B
APPROVED: R.C. Mentzell ADMINISTRATOR 1-26-18 DATE		

L-7102B.dwg Revision Date: 1/26/18



* NOTE:
For reference in placing new curb stops and relocated curb boxes see L-9901.

** NOTE:
Should Poly tubing, Galvanized or Lead material be encountered the entire Water Tap shall be replaced w/ Copper from the existing Corporation Stop to the new Curb Stop. Pipe Shall Be Copper Tubing Size (C.T.S.).

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL WATER TAP RELOCATION	L-7102C
APPROVED: R.C. Mentzell ADMINISTRATOR 1-26-18 DATE		

L-7102C.dwg Revision Date: 1/26/18

WATER WORK DETAILS

DESIGN AGENCY EMH&T

DESIGNER TGW

REVIEWER RSH 06/12/26

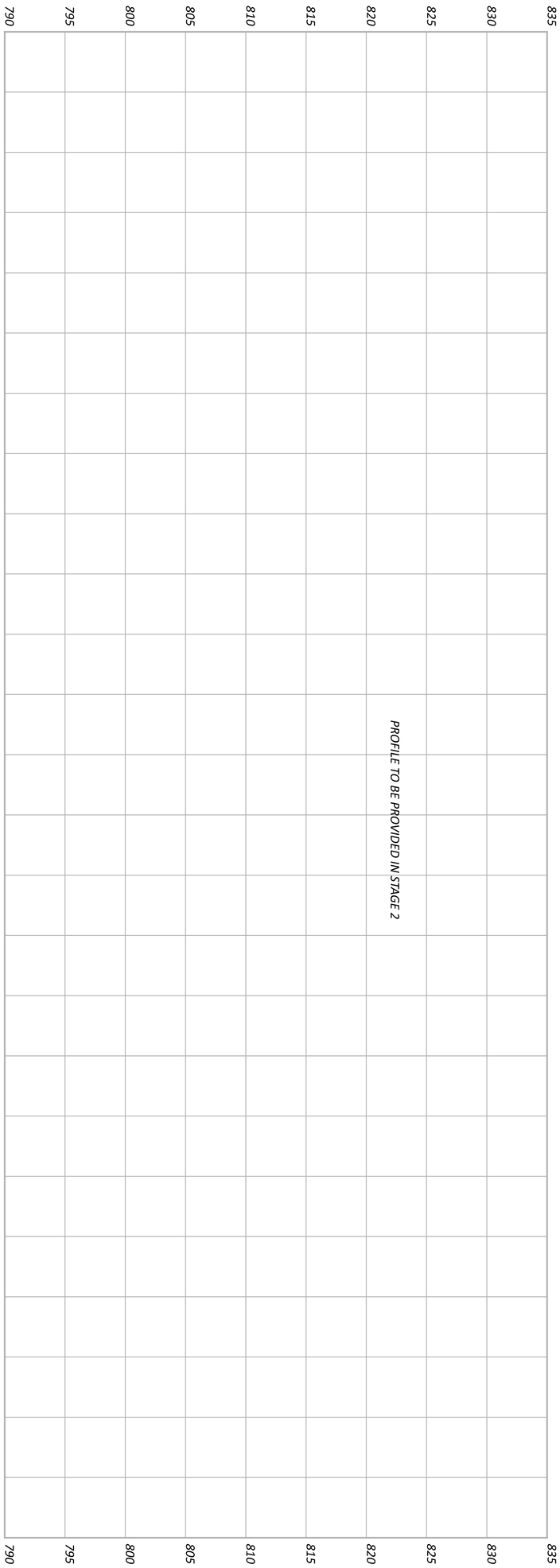
PROJECT ID 120607

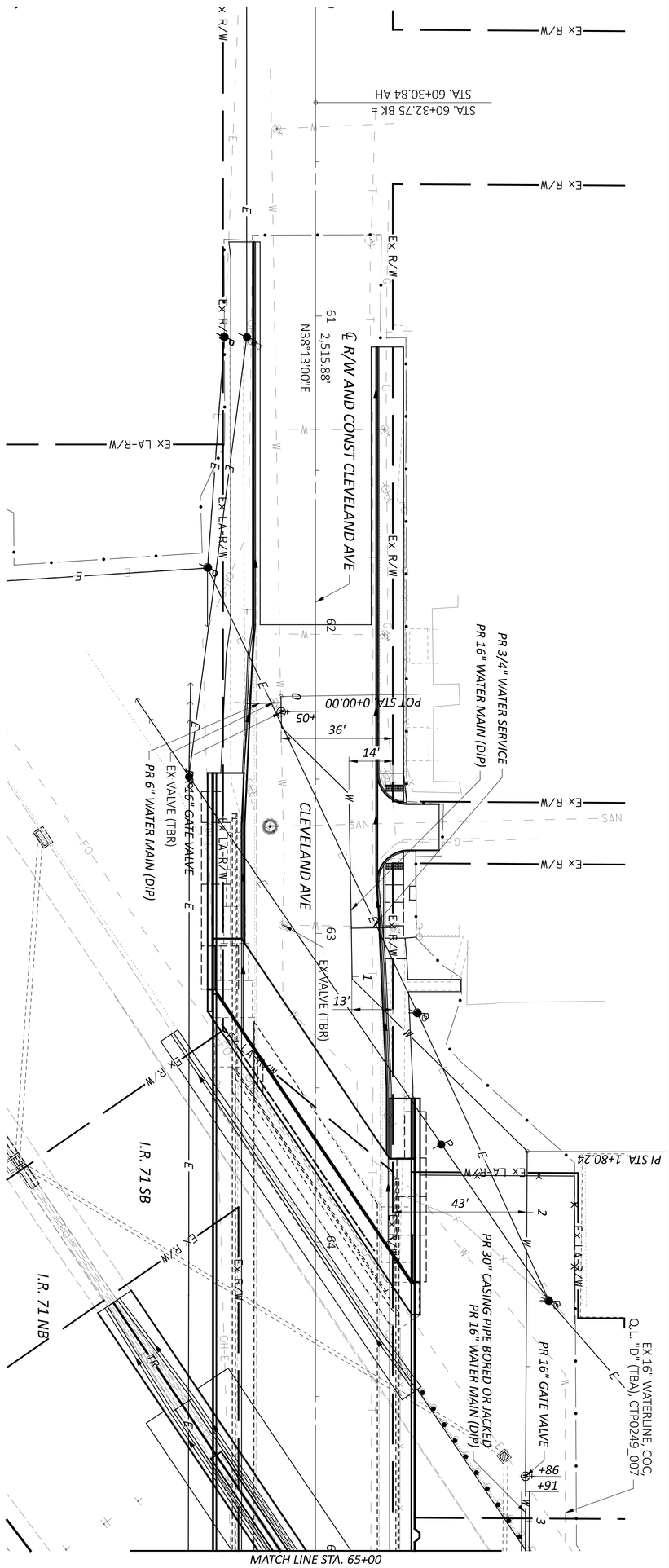
SHEET P.65 TOTAL 130

FRA-3-17.44

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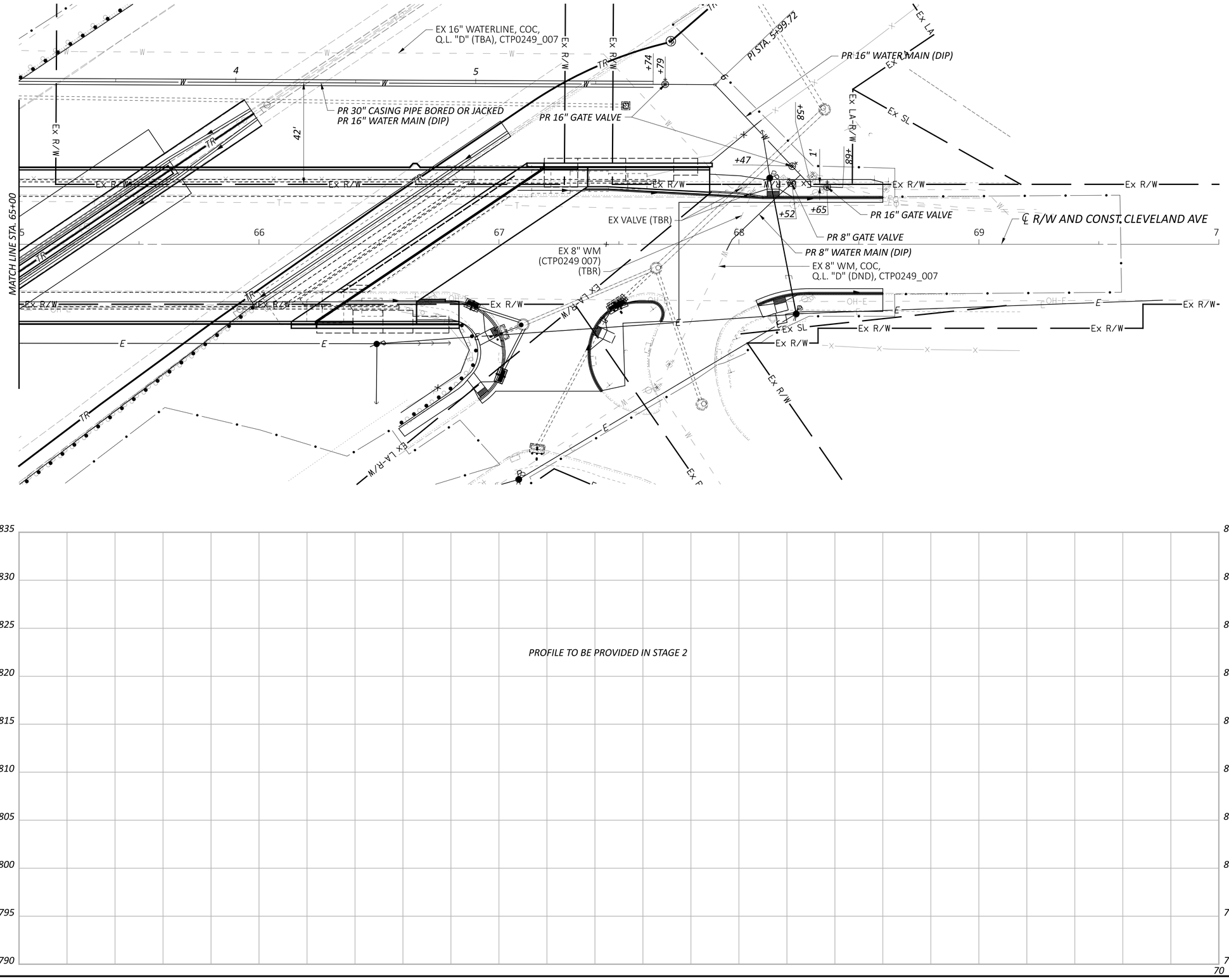


DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
BLM	SJB 06/12/26	120607	P 66	130

DESIGN AGENCY: EMH&T

WATER WORK PLAN AND PROFILE - CLEVELAND AVE
BEGIN WORK TO STA 65+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40



HORIZONTAL
SCALE IN FEET
0 10 20 40

WATER WORK PLAN AND PROFILE - CLEVELAND AVE
STA 65+00.00 TO END WORK

DESIGN AGENCY
EMH&T

DESIGNER
BLM

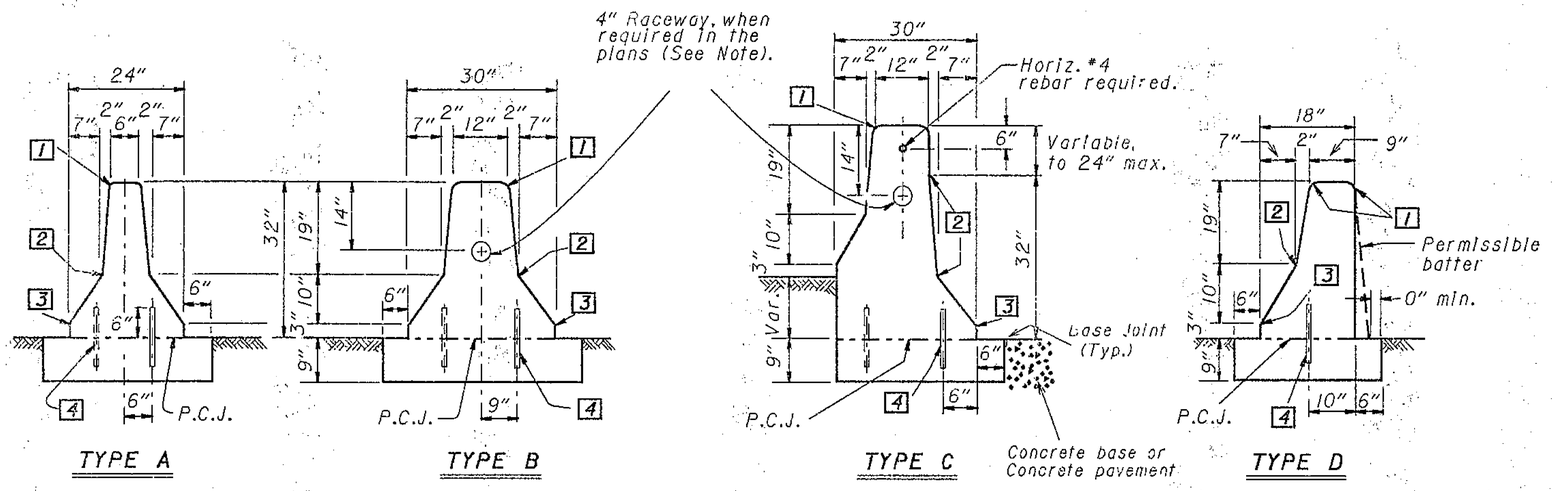
REVIEWER
SJB 06/12/26

PROJECT ID
120607

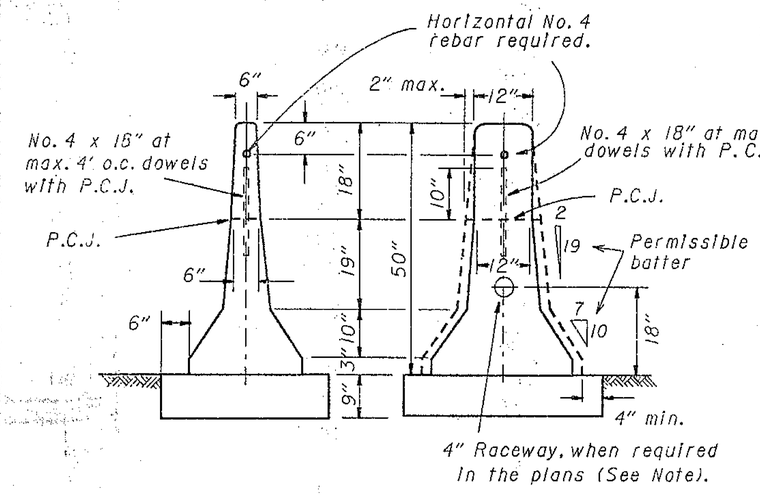
SHEET P.67 | TOTAL 130

FRA-3-17.44

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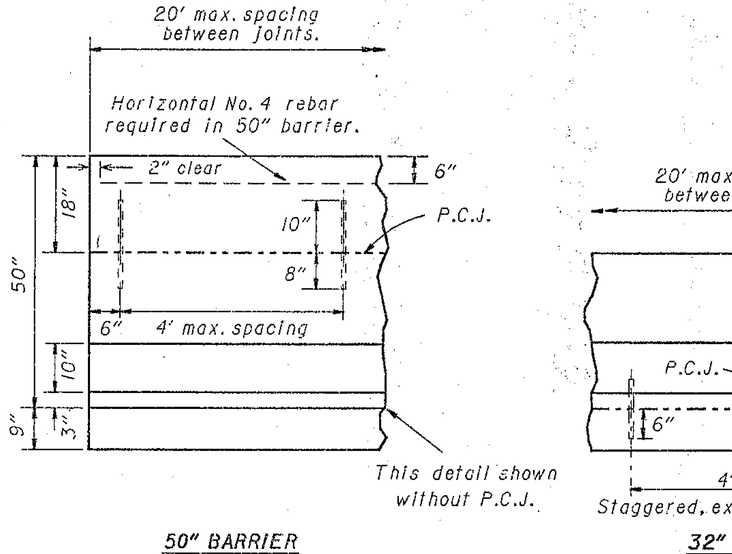
NORMAL SECTIONS



50" BARRIERS - TYPICAL SECTIONS

LEGEND

1. 1" Radius or 3/4" chamfer.
2. Permissible 10" radius.
3. Permissible 1" radius.
4. No. 8 epoxy coated deformed steel bars, 12" long, spaced 4' between successive bars on a staggered (except Type D) pattern. Omit dowels when top is constructed integral with the base.



BARRIER ELEVATIONS

NOTES

JOINTS: Unsealed contraction joints spaced at 20' max. shall be constructed throughout the run of Concrete Barrier except that expansion joints shall be used at the center line of and around each bridge pier column and on either side of overhead sign supports, inlets and light pole foundations. If inlet top is slip formed, the expansion joints adjacent to it may be omitted.

Contraction joints may be constructed with metal inserts inside the forms, preformed full width joint filler, a grooving tool, or by sawing. Inserts, tooled or sawed joints shall have a 3" minimum depth. All joints shall be constructed for the full height of the barrier including the base. Sawing shall be done as soon as curing will allow, to prevent spalling.

BASE JOINTS: The vertical walls between the barrier base and a concrete pavement or concrete base shall be provided with a sealed, grooved joint as shown on Std. Const. Dwg. BP-2.1. Sealing material shall conform with CMS 705.04.

P.C.J. = Permissible Construction Joint

MEASUREMENT: 622 Concrete Barrier, including transitions and pier sections as per Standard Const. Drawing, MC-9.4, is paid for in linear feet as one of the four types (A,B,C or D) or as Type A50 and B50, (for 50" high barrier), with appropriate deductions for other items such as:

604 1-3 Median Inlet	20 Lin. Ft.
625 Light pole foundation or pullbox	2.5 Lin. Ft.
630 Overhead sign support foundation	10 Lin. Ft.
630 Barrier wall assembly	10 Lin. Ft.

50 INCH HIGH BARRIER shall be built in locations specified in the plans. Construct the lower 32" of the barrier and the barrier base using the same dimensions as shown in the corresponding Normal Section. The upper 18" may be constructed integral with the bottom, or separately with No. 4 rebar dowels at 4 foot maximum spacing. Start and end dowels 6" from barrier contraction joints.

RACEWAY: The contractor shall insure that the electrical raceway is clear of internal obstructions. Cost of the 4 inch polyvinyl chloride raceway and No. 10 AWG copper-clad or aluminum-clad wire if needed for future installation of circuits shall be included in the unit cost per lineal foot for item 622, Concrete Barrier.

STATION MARKING shall be impressed in the "green" concrete on both sides of the top of the barrier if specified in the plans, which cost shall be incidental to the unit cost per linear foot bid for item 622, Concrete Barrier.

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER

DATE 10-30-92

STANDARD CONSTRUCTION DRAWING **MC-9.3**

APPROVED F. K. Hallmark ENGR., L & D

BARRIER DETAILS

DESIGN AGENCY EMH&T
DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.68 TOTAL 130

FRA-3-17.44

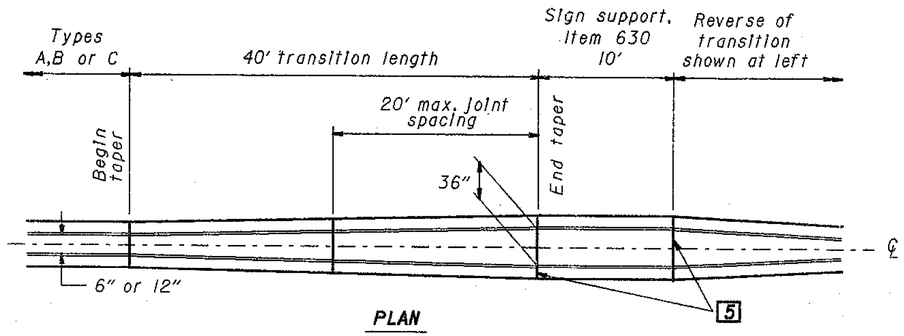
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NOTE

STANDARD BARRIERS: Types A, B, or C concrete barriers shall be constructed as per Std. Const. Drwg. MC-9.3 or as detailed in the plans.

LEGEND

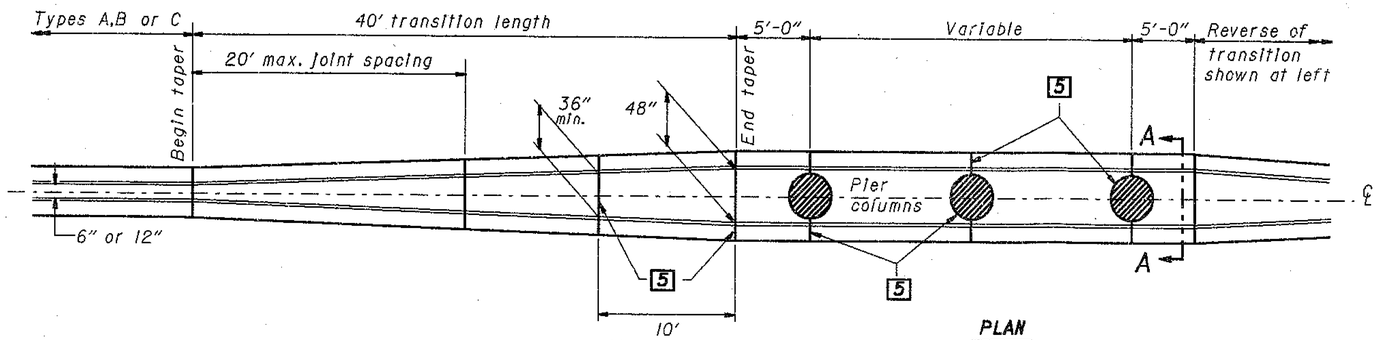
1. 1" Radius or 3/4" chamfer.
2. Permissible 10" radius.
3. Permissible 1" radius.
4. No. 8 epoxy coated deformed steel bars, 12" long, spaced 2' between successive bars on a staggered (except Type D) pattern. Dowel bars shall begin 4' from the leading edge of the End Terminal. Omit dowels when top is constructed integral with the base.
5. Expansion joint, 3/4" min. Preformed Filler 705.03.



PLAN

SIGN SUPPORT TRANSITION

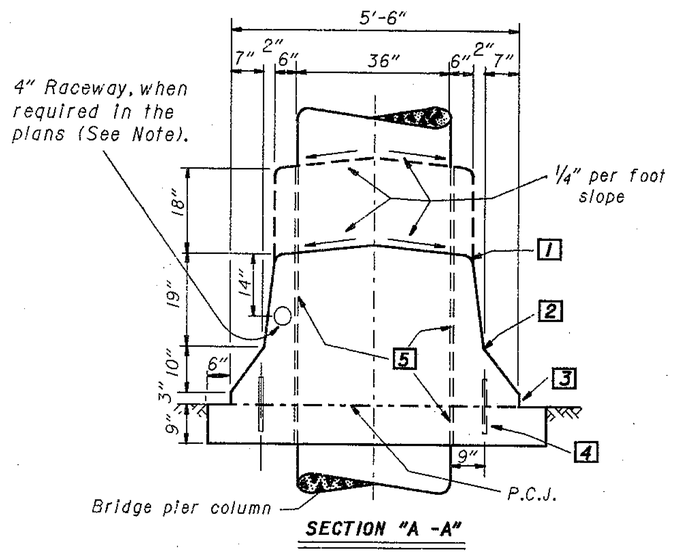
(For 50" barriers, the upper 18" varies from 6" or 12" width to 36" width.)



PLAN

BRIDGE PIER TRANSITION

(With Sign Support)



SECTION "A -A"

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER TRANSITIONS

DATE 10-30-92

STANDARD CONSTRUCTION DRAWING **MC-9.4**

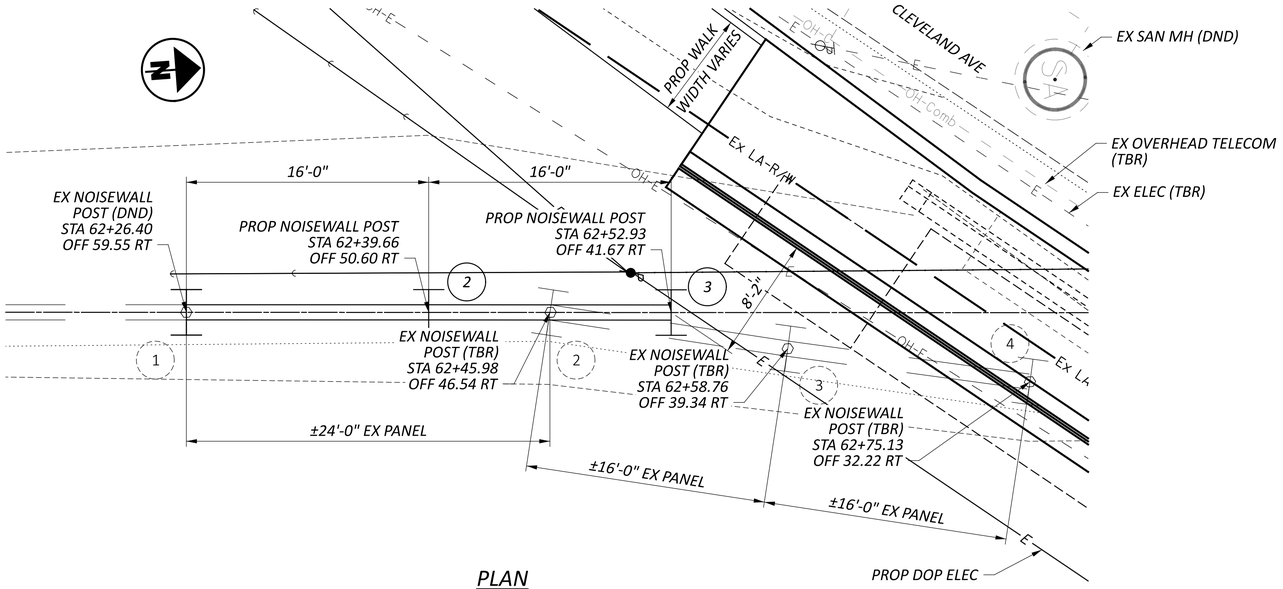
APPROVED D.K. Hollenbaugh ENGR., L & D

DESIGN AGENCY EMH&T
DESIGNER BLM
REVIEWER SJB 06/12/26
PROJECT ID 120607
SHEET P.69 TOTAL 130

BARRIER DETAILS

FRA-3-17.44

MODEL: Miscellaneous Details - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:22:55 AM PLTDRV: OHDOT_PDF.pltdg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCE.v02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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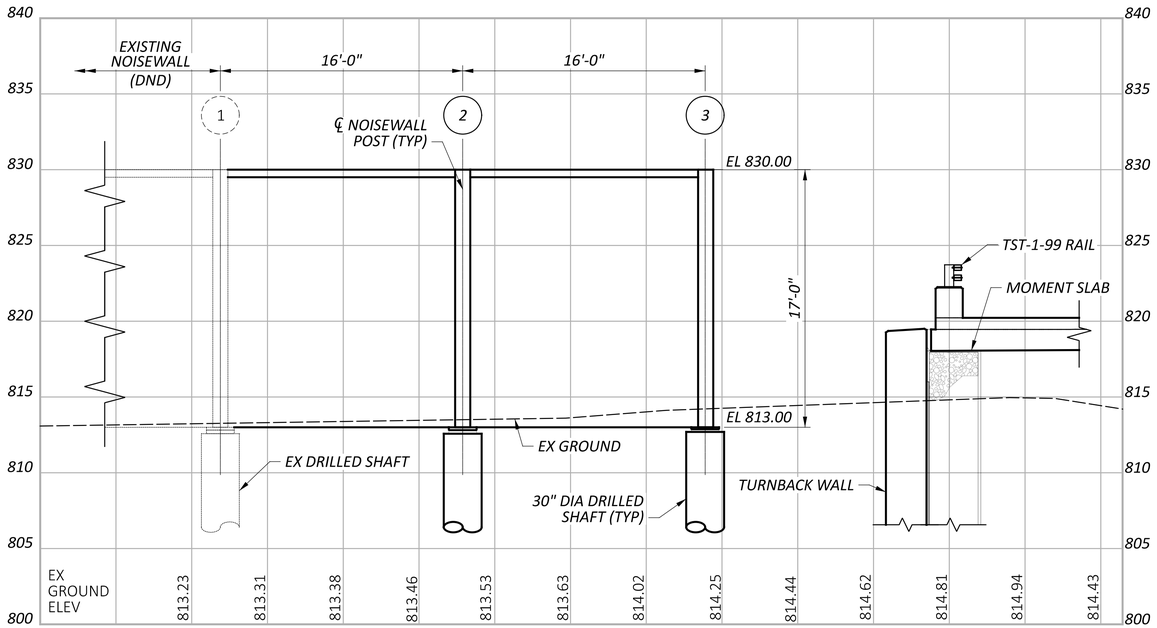
PLAN

LEGEND

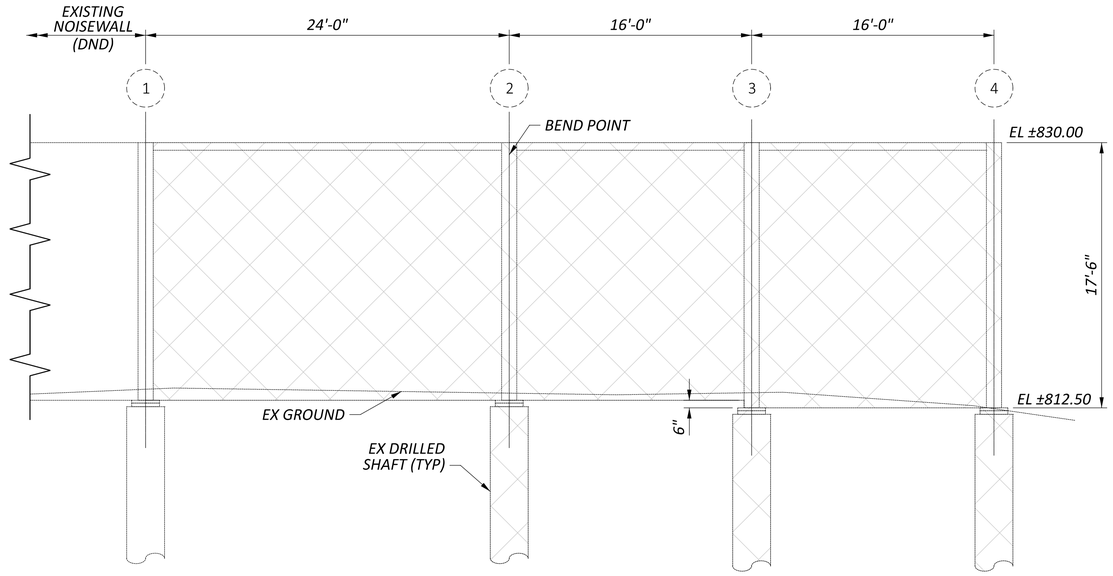
- PORTIONS OF EXISTING NOISEWALL TO BE REMOVED

NOTES

1. CONTRACTOR SHALL REVIEW FIELD INSTALLED EXISTING NOISEWALL PRIOR TO ORDERING MATERIALS TO CONFIRM FINAL FITMENT.
2. FOR DETAILS NOT PRESENTED SEE ODOT STANDARD DRAWING NBS-1-09.
3. PROPOSED NOISE WALL SHALL MATCH EXISTING CONSTRUCTION, INCLUDING INTEGRAL POST CAP WHICH IS FLUCH WITH THE PANEL TOPS AND VENEER TREATEMENT TO NOISEWALL PANELS.



NOISEWALL ELEVATION



EXISTING NOISEWALL REMOVAL

HORIZONTAL SCALE IN FEET
0 2.5 5 10

NOISEWALL DETAILS
CLEVELAND AVE

DESIGN AGENCY
EMH&T

DESIGNER SJS
REVIEWER CAS 06/12/26
PROJECT ID 120607
SHEET P.70 TOTAL 130

FRA-3-17.44

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CITY OF COLUMBUS DIVISION OF POWER NOTES

1. THE CITY OF COLUMBUS, DIVISION OF POWER (DOP) MAY ALSO BE REFERRED TO AS "MELP" (MUNICIPAL ELECTRIC LIGHT AND POWER) ON SOME DOCUMENTS, POLE TAGS AND STANDARDS. THE TERMS DOP AND MELP HAS THE SAME MEANING WHEREVER USED.

2. THE DOP REQUIRES THREE WEEKS PRIOR NOTICE FROM THE CONTRACTOR TO SCHEDULE ANY MAJOR WORK BY THE DOP. ANY SIGNIFICANT DELAY BY THE CONTRACTOR WILL REQUIRE AN ADDITIONAL THREE (3) WEEKS NOTICE TO RESCHEDULE THE WORK.

3. OUTAGES PROHIBITED: THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH TEMPORARY LINES. RIGGING AND HOT LINE WORK SHALL BE PERFORMED SO THAT THE CONSTRUCTION MAY BE ACCOMPLISHED WITHOUT AN OUTAGE. IF OUTAGES ARE REQUIRED AND APPROVED, THE CONTRACTOR SHALL PROVIDE, CONNECT AND MONITOR ELECTRIC GENERATORS AS REQUIRED TO MAINTAIN SERVICE TO CUST0MERS.

4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL CODES AND ORDINANCES PERTINENT TO THE PROGRESSION OF THE WORK DESCRIBED WITHIN THE PROJECT PLANS. ANY REQUIRED PERMIT SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING SAFETY PRECAUTIONS AT ALL TIMES FO THE PROTECTION OF PERSON (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBIILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AN EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION.

5. CONTRACTOR WILL COORDINATE CUSTOMER OUTAGES WITH DOP APPROVAL.

6. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRIC SAFETY CODE, 2017 OR LATEST EDITION.

7. THE CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS WHEN WORKING ON DOP FACILITIES INCLUDING CLOTHING, HARNESSES, ETC.

8. CONTRACTOR SHALL CONFORM TO THE DOP "HOLD CARD SYSTEM" (SEE SUPPLEMENTAL ELECTRICAL SEPCIFICATIONS)

9. CONTRACTOR SHALL CONFORM TO THE DOP "CONDUCTOR SAFETY POLICY" (SEE SUPPLEMENTAL ELECTRICAL SPECIFICATIONS).

10. THE PLAN DETAILS SHALL BE CONSIDERED SUPPLEMENTAL TO THE TDMIS SPECIFICATIONS.

11. ALL ITEMS CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS RELATED ITEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS SUCH AS RELOCATION OF MAILBOXES, SAW CUTTING, REMOVAL AND OR RELOCATION OF SIGNS, RAILROAD TIES, SPRINKLERS, RELOCATION OF ROOF OR SUMP DRAINS AROUND POLES, HAND DIGGING AROUND UNDERGROUND UTILITIES, REPAIR OF ALL PAVEMENT SURFACES (ASPHALT, CONCRETE OR BRICK) DISTURBED, OR OTHER MISCELLANEOUS ITEMS.

12. CLEAN UP: THE PROJECT CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN HEALTHY STATE AT ALL TIMES. DIRT PILES FROM EXCAVATION SHALL BE REMOVED FROM THE SITE OR PROPERLY PLACED BACK IN HOLES OR PITS DAILY. AT EACH WORK DAY'S END, THE PROJECT SITE SHALL HAVE ALL DEBRIS REMOVED AND SIDEWALKS, CURBS, GUTTERS AND STREET SURFACES BROOM SWEPT. DIRT LAYING ON UNDISTURBED SOD AREAS MAY CAUSE DAMAGE TO THE HEALTH OF GRASS AND IS NOT PERMITTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS BID ITEMS.

13. OUPS: THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITY PROTECTION SERVICE (OUPS) PHONE: 1-800-362-2764 TOLL FREE, AND THE OWNERS OF UNDERGROUND FACILITIES LOCATED WITHING THE PROJECT AREA WHO ARE NOT MEMBERS OF THE REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE ABOVE-MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING UNDERGORUND UTILITIES MAY OR MAY NOT BE SHOWN ON THE PLANS. INDIVIDUAL SERVICE LINES MAY OR MAY NOT BE SHOWN AND SHOULD BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCING ANY WORK. FIELD VERIFICATION MAY BE NECESSARY AND THE CONTRACTOR SHOULD INCLUDE HIS COST FOR THIS WORK IN THE VARIOUS UNIT PRICES. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITY LINES, SERVICES AND APPURTENANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS HIS RESPONSIBILITY TO PROVIDE THE REPAIRS OR OVERSEE THE REPAIR BY THE APPROPRIATE UTILITY AT THE CONTRACTOR'S EXPENSE.

14. REMOVAL AND DISPOSAL OF ELECTRIC LINE MATERIALS: ALL UNUSABLE MATERIALS SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE PLANS OR THE ENGINEER. ANY REUSABLE MATERIAL SUCH AS TRANSFORMERS, SIWTCHES, WIRE, LIGHTS, ETC. SHALL BE DISASSEMBLED AND RETURNED TO THE DOP, 3500 INDIANOLA AVE. PRIOR ARRANGEMENTS SHALL BE MADE BEFORE RETURNING MATERIAL.

15. THE CONTRACTOR SHALL PROTECT ANY PROPOSED OR EXISTING UTILITY POLE TO REMAIN IN PLACE DURING THE DURATION OF A CONFLICTING CONSTRUCTION OPERATION. THE CONTRACTOR WILL PROVIDE ALL TEMPORARAY SUPPORTS, GUYS AND ANCHORS NECESSARY TO SUPPORT POLES AS REQUIRED DURING CONSTRUCTION. UTILITY POLES WITHIN THE INFLUENCE OF A WATER LINE, SANITARY SEWER, STORM SEWER OR EARTHWORK OPERATIONS SHALL BE REINFORCED BY THE CONTRACTOR PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION TO THE UTILITY COMPANY, PRIOR TO CONSTRUCTION, SHALL BE THE RESPONSIBILITITY OF THE CONTRACTOR. ALL COSTS INCURRED FOR THE TEMPORARY SUPPORT OF UTILTIY POLES SHALL BE INCLUDED WITHIN THE TOTAL BID COST OF THE PROJECT. NO REIMBURSEMENT OR SEPARATE PAYMENT SHALL BE MADE. PAYMENT FROM THE OWNER WILL NOT BE PROVIDED.

16. THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE AS SHOWN THROUGHOUT THE PROJECT PLANS, ARE COMPILED FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. OBTAINING THE EXACT LOCATION AND PROTECTION OF UTILITIES AND OF STRUCTURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PROJECT PLANS OR NOT. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ANY WORK DONE IN AN AREA FOR THE EXACT LOCATIONS OF THEIR MAIN LINES, SERVICE LINES OR ANY OTHER EQUIPMENT WORK IN AREAS UNMARKED BY UTILITIES. IF DAMAGE IS CAUSED, THE CONTRACTOR IS RESPONSIBLE TO IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY AND PROPERTY OWNER OF INTERRUPTED SERVICE, HAVE IT SHUT OFF, REPAIRED AND RESTORED TO SERVICE TO THE SATISFACTION OF THE CITY AND FOR ANY RESULTING CONTINGENT DAMAGE AT THE CONTRACTORS EXPENSE.

17. THE CONTRACTOR SHALL PERFORM ANY EXPLORATORY EXCAVATIONS NECESSARY TO LOCATE UNDERGROUND UTILITIES PRIOR TO DIGGING. WHERE PROJECT WORK IS LOCATED CLOSE TO EXISTING UTILITY LINES AND WHERE THIS SET OF PLANS SHOW POTENTIAL LOCATION CONFLICTS, EXCAVATIONS SHALL BE ACCOMPLISHED UTILIZING HAND DIGGING OR VACUUM BORING. THE COST OF THE WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID.

18. COORDINATION: ALL ELECTRICAL WORK IS TO BE COORDINATED WITH DOP ENGINEERING SECTION. CONTRACTOR TO MAKE ALL ELECTRICAL TIES TO THE DOP SYSTEM UNLESS OTHERWISE NOTED OR DIRECTED.

19. SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CONTRACTOR SUPPLIED ITEMS OF EQUIPMENT AND MATERIAL USED ON THIS PROJECT SUCH AS POLES, CROSSARMS, POLE HARDWARE, PULLBOXES, CONDUIT, CABLE AND ACCESSORIES, SWITCHES, TRANSFORMERS, ETC. SHOP DRAWINGS WILL INCLUDE DETAIL DRAWINGS, PHOTOGRAPHS, CERTIFICATIONS, APPROVAL AND INSTALLATION DATA.

20. AS-BUILT RECORD: THE CONTRACTOR SHALL MAINTAIN A SET OF PROJECT RECORD DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, FIELD TEST RECORDS AND AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL BE MARKED LEGIBLY IN RED, THE ACTUAL LOCATION OF EQUIPMENT, CONDUITS, ETC. AS CONSTRUCTED, ALL EQUIPMENT AND CONDUITS INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCES OFF A LANDMARK AT LEAST EVERY 25 FEET AND AS NECESARY AT BENDS FOR LOCATING AT A LATER DATE.

21. SYSTEM REMOVAL: THIS ITEM SHALL BE ACCOMPLISHED ACCORDING TO ALL OTHER DOP OWNED SECONDARY AND PRIMARY CONDUCTORS, POLE HARDWARE AND/OR DESIGNATED ON PLANS FOR REMOVAL.

22. REFERENCE STANDARDS: WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE. EQUIPMENT SHALL BE CONSTRUCTED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ISSUE OF THE FOLLOWING CODES, PERFORMED IN ACCORDANCE WITH THE LATEST ISSUE OF THE FOLLOWING CODES, STANDARDS AND REGULATIONS WHEREIN THEY APPLY:

A. CITY OF COLUMBUS, DIVISION OF POWER, MINIMUM ELECTRICAL STANDARDS.
B. NATIONAL BOARD OF UNDERWRITERS- PAMPHLET NO. 70
C. NATIONAL ELECTRIC CODE
D. NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA)
E. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
F. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
G. INSULATED POWER CABLE ENGINEER'S ASSOCIATION (IPCEA)
H. NATIONAL ELECTRICAL SAFETY CODE, NATIONAL BUREAU OF STANDARDS NO. H-30
I. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
J. AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)
K. AMERICAN WOOD PRESERVERS' ASSOCIATION (AWPA)
L. EDISON ELECTRIC INSTITUTE (EEI)
M. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
N. CITY OF COLUMBUS MATERIALS AND CONSTRUCTION (CMS 2012 OR LATEST EDITION)

23. SAW CUT SIDEWALKS AT THE JOINT WHERE REQUIRED FOR POLE INSTALLATION OR REMOVAL. REPLACE SIDEWALK TO MATCH EXISTING. PROMPTLY REPAIR ANY SIDEWALKS (JOINT TO JOINT), GRASS, MAILBOXES, ETC. DAMAGED DURING CONSTRUCTION.

24. ALL PERSONS WORKING ON THE STREET LIGHT FACILITIES MUST TAKE THE CONDUCTOR SAFETY COURSE AND DISTRIBUTION SHALL FOLLOW THE DIVISION OF POWER CONDUCTOR SAFETY POLICY.

25. ALL DISTRIBUTION LINE INSULATING MATERIAL SHALL BE 15KV, NOMINAL.

26. WHERE EXISTING CONDUCTOR IS BEING REPLACED THE NEW CONDUCTOR SHALL MATCH THE AMPACITY OR EXCEED IN SIZE THE EXISTING CONDUCTOR AND MEET THE DOP MINIMUM STANDARDS.

27. ALL EXISTING POLES BEING REPLACED SHALL BE REMOVED OR TOPPED DOWN TO THE NEXT UTILITY ATTACHED TO THE POLE.

28. INSTALL A DRIVEN GROUND ROD AT ALL NEW POLE LOCATIONS. TEST RESISTANCE, 25 OHMS MINIMUM.

29. BOND ALL DOWN GUYS TO THE POLE GROUND. POLE GROUND SHALL EXTEND 6" ABOVE THE TOP OF POLE

30. INSTALL A FIBERGLASS STRAIN INSULATOR(S) (DOP #20241) IN ALL DOWN GUYS AT THE POLE TO EXTEND BELOW ENERGIZED CONDUCTORS.

31. TREE TRIMMMING AND BRUSH CLEARING SHALL BE RESPONSIBILITY OF THE CONTRACTOR.

32. PRIOR TO INSTALLING ANY TRANSFORMERS, THE CONTRACTOR SHALL GIVE AT LEAST ONE (1) WEEK NOTICE TO THE ENGINEER TO ALLOW FOR DOP PERSONNEL TO TEST AND ASSIGN CASE NUMBERS TO ALL NEW TRANSFORMERS.

33. ALL MATERIAL, WHETHER INSTALLED BY THE CONTRACTOR OR DOP, SHALL BE SUPPLIED BY THE CONTRACTOR.

34. ALL LABOR, EQUIPMENT AND MATERIAL DESCRIBED IN THE PLAN DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR, UNLESS SPECIFIED OTHERWISE.

35. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED, BUT NOT SHOWN OR DESCRIBED, WHICH IS NECESSARY TO COMPLETE THE RELOCATION OF DOP FACILITIES ON THIS PROJECT AS SHOWN IN THESE PLANS AND SPECIFICATIONS AND FOLLOWING GENERAL PRACTICES OF THE ELECTRIC UTILITY INDUSTRY, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF COLUMBUS.

DIVISION OF POWER/MELP CONTACTS:
ENGINEERING:
PRIMARY CIRCUITS- JEFF HOLMES 614-645-8276
STREET LIGHTING- JODI STEFANIK 614-645-1591
DISTRIBUTION
OVERHEAD- LARRY WILLIAMS 614-645-7272
UNDERGROUND- JEFF HOLMES 614-645-8276

MEDIUM VOLTAGE CABLES

CABLES FOR USE IN 7.2kV AND 14.4kV UNDERGROUND SYSTEM APPLICATIONS SHALL CONFORM TO TDMIS-9251, UNDERGROUND CABLE - MEDIUM VOLTAGE POWER CABLE - NEW.

UNDERGROUND 600V RATED CABLES IN DUCTBANK SHALL COMPLY WITH NEMA WC70/ICEA S-95-658, AND SHALL BE COPPER 600V CABLE, XHHW-2 INSULATION.

OVERHEAD CONDUCTORS SHALL CONFORM TO TDMIS-2300, AS SPECIFIED. 336 MCM SPACER CABLE SHALL UTILIZE A NEUTRAL MESSENGER SIZED FOR 556 MCM SPACER CABLE: SIZE 0052 AWA.

TRANSFORMERS
TRANSFORMERS SHALL CONFORM TO TDMIS-9070 - TRANSFORMERS - OVERHEAD, AND TDMIS-9071 - TRANSFORMERS - PAD-MOUNTED - SINGLE-PHASE.

EXISTING SYSTEM REMOVAL
EXISTING SYSTEM REMOVAL SHALL BE BID AS A LUMP SUM ITEM FOR ALL WORK AND EQUIPMENT REQUIRED FOR SYSTEM REMOVAL AS INDICATED IN THE PROJECT DRAWINGS. SYSTEM REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF COLUMBUS TRANSMISSION AND DISTRIBUTION MATERIAL AND INSTALLATION SPECIFICATION TDMIS-1600 - EXISTING OVERHEAD TRANSMISSION AND DISTRIBUTION SYSTEM REMOVAL.

FOR THE DIVISION OF POWER

THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO, HAS UNDERGROUND AND OVERHEAD STREET LIGHTING AND 14.4KV PRIMARY CIRCUITS IN THE PROJECT AREA. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT THE DIVISION OF POWER, FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOP DISPATCH OFFICE NUMBER IS (614) 645-7627 (VOICE). ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR RELATED ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IS TO BE PERFORMED SOLELY BY THE CONTRACTOR UNDER THE DIRECTION OF DIVISION OF POWER PERSONNEL AND AT THE EXPENSE OF THE PROJECT. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIALS AND MAKE REPAIRS TO A CITY STREET LIGHTING SYSTEM BY FOLLOWING THE DIVISION OF POWER "MATERIALS AND INSTALLATION SPECIFICATIONS" MIS SPECIFICATIONS AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR REINSTALLED UNDERGROUND ELECTRICAL SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN THE SECTION 1000.18 OF THE CMS MANUAL.

THE CONTRACTOR SHALL CONFORM TO THE DIVISION OF POWER POLICIES FOR CONDUCTOR SAFETY AND HOLD CARD SYSTEM (TDMIS-1603 AND 1604) & GUIDELINES, COPIES OF WHICH ARE AVAILABLE FROM THE DIVISION OF POWER. IF ANY ELECTRIC FACILITY BELONGING TO THE DIVISION OF POWER IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS OR EMPLOYEES AND REQUIRES EMERGENCY REPAIRS, THE DIVISION OF POWER AND WATER (POWER) SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER ELECTRICITY, CITY OF COLUMBUS, OHIO.

THE DIVISION OF POWER REQUIRES THAT UPON APPROVAL BY OUR PERSONNEL, MATERIAL REMOVED FROM THE PROJECT SHALL BE RETURNED BY THE CONTRACTOR TO OUR DISTRIBUTION OFFICE AT 3500 INDIANOLA AVE. PRIOR TO RETURNING, MATERIAL MUST BE DISASSEMBLED AND ALL RETURNED MATERIAL SHALL BE RECORDED ON A DIVISION OF POWER AND WATER'S RETURN OF MATERIAL YELLOW FORM. PLEASE CALL (614) 645-7627 (STOREROOM) 48 HOURS IN ADVANCE TO SCHEDULE RETURNS. IF YOU HAVE ANY QUESTIONS, CALL REID SPRITE AT (614) 645-7019.

ITEM SPECIAL - COMPLETE DEADEND ASSEMBLY

COMPLETE DEADEND ASSEMBLY SHALL BE A 3-PHASE PRIMARY DEADEND ON CROSSARM AND SHALL INCLUDE:

A. DOUBLE WOOD CROSSARM, 10', TDMIS-010, PER DETAIL 7
B. THREE (3) PRIMARY DEADEND ASSEMBLIES (TDMIS-406)
C. PRIMARY NEUTRAL ASSEMBLY (TDMIS-405) (WHERE NOTED)

EACH COMPLETE DEADEND ASSEMBLY SHALL INCLUDE THE MATERIAL ABOVE, AND ALL ASSOCIATED INCIDENTAL HARDWARE REQUIRED TO CONSTRUCT THE COMPLETE DEADEND ASSEMBLY.

SPECIFICATIONS

CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF COLUMBUS TRANSMISSION AND DISTRIBUTION MATERIAL AND INSTALLATION SPECIFICATIONS (TDMIS). THE TDMIS SPECIFICATIONS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO:

TDMIS-1	WOOD POLES
TDMIS-7	OVERHEAD DISTRIBUTION CIRCUIT GROUNDING
TDMIS-10	WOOD CROSSARM
TDMIS-11	WOOD CROSSARM W/ STEEL BRACES
TDMIS-20	PIN AND PIN INSULATOR
TDMIS-22	MISCELLANEOUS LINE HARDWARE
TDMIS-25	ALUMINUM CONDUCTOR HAND-MADE INSULATOR TIES
TDMIS-26	DISTRIBUTION CUTOUTS
TDMIS-27	DISTRIBUTION ARRESTOR APPLICATIONS
TDMIS-28	HOT LINE CLAMP AND RISER ASSEMBLY
TDMIS-100	DOWN GUY & ANCHOR WITH INSULATOR
TDMIS-101	DOUBLE DOWN GUY & ANCHOR WITH INSULATOR
TDMIS-104	SPAN GUY
TDMIS-110	GUY WIRE
TDMIS-112	SCREW ANCHOR (HELIX)
TDMIS-300	14" SPACER CABLE TANGENT BRACKET, ANGLES UP TO 5DEGREES
TDMIS-304	SPACER CABLE DEADEND ON CROSSARM
TDMIS-305	SPACER CABLE TO SPACER CABLE DOUBLE DEADEND ONCROSSARM
TDMIS-306	SPACER CABLE TO OPEN WIRE DOUBLE DEADEND ONCROSSARM
TDMIS-308	SPACER CABLE ANGLE BRACKET 5 TO 60 DEGREES
TDMIS-309	SPACER CABLE ANGLE BRACKET, OVER 60 DEGREES
TDMIS-310	SPACER CABLE SPACERS
TDMIS-311	MESSENGER ATTACHMENT TO CROSSARM
TDMIS-400	TANGENT AND ANGLES UP TO 5 DEGREES
TDMIS-403	ALLEY ARM CONSTRUCTION
TDMIS-405	PRIMARY NEUTRAL ASSEMBLY
TDMIS-406	DEADEND ASSEMBLY
TDMIS-409	THREE PHASE BRANCH
TDMIS-500	SECONDARY, NEUTRAL AND MESSENGER CONDUCTOR SUPPORT ASSEMBLIES
TDMIS-502	SECONDARY AND NEUTRAL DEADEND ASSEMBLY
TDMIS-802	OVERHEAD TRANSFORMER, ALUMINUM SECONDARY CONNECTIONS
TDMIS-804.D	OVERHEAD TRANSFORMER INSTALLATION - SINGLE PHASE DELTA
TDMIS-805.D	OVERHEAD TRANSFORMER INSTALLATION - THREE PHASE DELTA
TDMIS-1001	PRIMARY RISER POLE
TDMIS-1015	PRECAST MANHOLE
TDMIS-1105	CABLE SPLICE
TDMIS-1106	CABLE GRIPS
TDMIS-1600	EXISTING OVERHEAD REMOVAL
TDMIS-1603	CONDUCTOR SAFETY POLICY
TDMIS-1604	HOLD CARD SYSTEM
TDMIS-1605	HIGH POTENTIAL CABLE TEST
TDMIS-1606	CABLE CONTINUITY TEST
TDMIS-1607	GROUND ROD TEST
TDMIS-2300	CONDUCTORS
TDMIS-2700	PROTECTION
TDMIS-9070	TRANSFORMERS - OVERHEAD

DOP POWER LEGEND

EXISTING WOOD POLE

PROPOSED WOOD POLE, SIZE AS NOTED (TDMIS-1)

EXISTING OVERHEAD ELECTRIC

PROPOSED OVERHEAD ELECTRIC (AS NOTED)

DOP POWER DISTRIBUTION GENERAL NOTES

DESIGN AGENCY
AEC Advanced Engineering Consultants

DESIGNER JCS

REVIEWER NA 06-10-26

PROJECT ID 120607

SHEET P.71 | TOTAL 130

FRA-3-1744

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E1 EX. POLE DOP #105162 (TO BE REMOVED)

P1 STA. 61+06.8, 29.4' RT ℄ CLEVELAND AVE. PROVIDE 55' CLASS 3 WOOD POLE (TDMIS-1) WITH 14" SPACER CABLE TANGENT BRACKET (TDMIS-300)

P2 STA. 61+81.6, 34.9' RT ℄ CLEVELAND AVE. PROVIDE 55' CLASS 2 WOOD POLE (TDMIS-1) WITH (2) SPACER CABLE DEADEND (TDMIS-304) (3) 100A FUSED CUTOUTS (TDMIS-26) (1) COMPLETE DEADEND ASSEMBLY (SPECIAL) DOWN GUY (TDMIS-100)

E2 EX. POLE DOP #105163 (TO BE REMOVED)

P9 STA. 63+25.9, 33.0' LT ℄ CLEVELAND AVE. PROVIDE 45' CLASS 3 WOOD POLE (TDMIS-1) TANGENT CROSSARM ASSEMBLY (TDMIS-400)

E3 EX. POLE DOP #105164 (TO BE REMOVED)

P10 STA. 64+19.1, 75.6' LT ℄ CLEVELAND AVE. PROVIDE 40' CLASS 3 WOOD POLE (TDMIS-1) CROSSARM ASSEMBLY, SMALL ANGLES (TDMIS-401)

E6 EX. POLE DOP #105165 (TO REMAIN)

E4 EX. POLE DOP #105166 (TO BE REMOVED)

P8 STA. 68+13.0, 27.7' LT ℄ CLEVELAND AVE. PROVIDE 40' CLASS 3 WOOD POLE (TDMIS-1) (2) SPAN GUY (TDMIS-104) (FROM POLE P6) (1) DOWN GUY (TDMIS-100)

E5 EX. POLE DOP #105167 (TO REMAIN) SEE NOTE 3

(3) #2 AWG CU CIRCUIT 14143

SEE NOTE 2

(3) #2 AWG CU CIRCUIT 14143

(3) #2 AWG CU CIRCUIT 14143

SEE NOTE 4

336 KCMIL SPACER CABLE CIRCUIT 14143 SEE NOTE 5

EX. 16" WATER, COC, Q.L. "D"

℄ CLEVELAND AVE.

2,515.88' N38°13'00"E

SEE NOTE 4

SEE NOTE 4

SEE NOTE 4

SEE NOTE 4

SEE NOTE 4

SEE NOTE 1

336 KCMIL SPACER CABLE CIRCUIT 14143

℄ EX. I.R.-71

P7 STA. 288+75.77

336 KCMIL SPACER CABLE CIRCUIT 14143

336 KCMIL SPACER CABLE CIRCUIT 14143

LEONA AVE.

CAMDEN AVE.

STA. 68+24.0, 28.9' RT ℄ CLEVELAND AVE. P7
PROVIDE 70' CLASS H1 WOOD POLE (TDMIS-1)
WITH SPACER CABLE ANGLE BRACKET
5 TO 60 DEGREES (MIS-308)
(2) SPAN GUY (TDMIS-104)
SEE NOTE 3

P3 STA. 288+09.8, 95.6' LT ℄ EX. I.R.-71
PROVIDE 65' CLASS 2 WOOD POLE (TDMIS-1)
WITH (2) SPACER CABLE DEADEND (TDMIS-304)
(2) DOWN GUY (TDMIS-100)
(3) DOUBLE DOWN GUY (TDMIS-101)

336 KCMIL SPACER CABLE CIRCUIT 14143

P4 STA. 289+46.7, 78.0' RT ℄ EX. I.R.-71
PROVIDE 70' CLASS 1 WOOD POLE (TDMIS-1)
WITH SPACER CABLE ANGLE BRACKET
5 TO 60 DEGREES (MIS-308)
(4) DOUBLE DOWN GUY (TDMIS-101)

336 KCMIL SPACER CABLE CIRCUIT 14143

P5 STA. 290+71.7, 121.4' RT ℄ EX. I.R.-71
PROVIDE 60' CLASS 3 WOOD POLE (TDMIS-1)
WITH 14" SPACER CABLE TANGENT BRACKET (TDMIS-300)

P6 STA. 67+08.3, 97.9' RT ℄ CLEVELAND AVE.
PROVIDE 60' CLASS H2 WOOD POLE (TDMIS-1)
WITH SPACER CABLE ANGLE BRACKET
5 TO 60 DEGREES (MIS-308)

NOTES:

1. PROVIDE 336 KCMIL SPACER CABLE (CKT 14143) TO EXISTING POLE 105161, 170' WEST.
2. CONNECT NEW #2 AWG COPPER CONDUCTORS (CKT 14143) TO EXISTING DEADEND. RECONNECT TO EXISTING TRANSFORMER.
3. RELOCATE EXISTING 3-PHASE TRANSFORMER BANK FROM EXISTING POLE #105167 TO NEW POLE P7.
4. REMOVE EXISTING OVERHEAD PRIMARY CONDUCTORS AFTER CUTOVER TO TEMPORARY SYSTEM.
5. PROVIDE 336 KCMIL SPACER CABLE (CKT 14143) TO EXISTING POLE 105168, 150' EAST

HORIZONTAL SCALE IN FEET
0 15 30 60

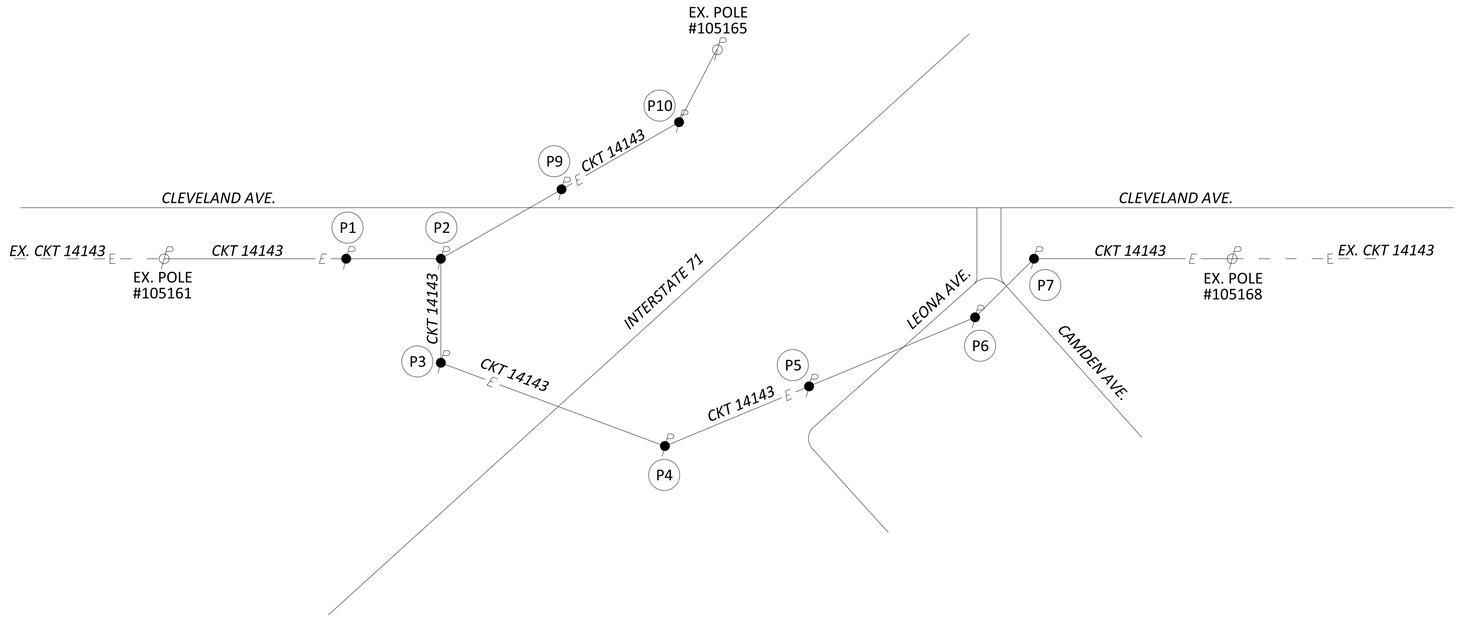
DOP POWER DISTRIBUTION
TEMPORARY POWER PLAN

FRA-3-1744

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DESIGN AGENCY
AEC Advanced Engineering Consultants

DESIGNER JCS
REVIEWER NA 06-10-26
PROJECT ID 120607
SHEET P.72 TOTAL 130



DOP POWER LEGEND

- EXISTING WOOD POLE
- PROPOSED WOOD POLE, SIZE AS NOTED (TDMIS-1)
- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC (AS NOTED)

DOP POWER DISTRIBUTION TEMPORARY CIRCUIT DIAGRAM

DESIGN AGENCY

AEC Advanced Engineering Consultants

DESIGNER	JCS
REVIEWER	NA 06-10-26
PROJECT ID	120607
SHEET	P.73
TOTAL	130

FRA-3-1744

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P14 STA. 63+68.4, 40.8' LT
℄ CLEVELAND AVE.
PROVIDE 40' CLASS 3 WOOD POLE (TDMIS-1)
TANGENT CROSSARM (TDMIS-400)

SEE NOTE 4

P9 TEMPORARY POLE
(TO BE REMOVED)

STA. 64+19.1, 75.6' LT ℄ CLEVELAND AVE. P10
(INSTALLED IN TERMPORARY PLAN)
SEE NOTE 3

EX. POLE DOP #105165 E6
(TO REMAIN)

STA. 66+49.1, 41.4' RT ℄ CLEVELAND AVE. P13
PROVIDE 65' CLASS H1 WOOD POLE (TDMIS-1)
SPACER CABLE TO SPACER CABLE DOUBLE
DEAD-END (TDMIS-305)
DOUBLE DOWN GUY (TDMIS-101)

P8 TEMPORARY POLE
(TO BE REMOVED)

P2 TEMPORARY POLE
(TO BE REMOVED)

P11 STA. 61+06.8, 22.3' RT
℄ CLEVELAND AVE.
PROVIDE 55' CLASS 2 WOOD POLE (TDMIS-1)
WITH 14" SPACER CABLE TANGENT BRACKET
(TDMIS-300)

SEE NOTE 4

EX. CIRCUIT (TO REMAIN)

EX. 16" WATER, COC, Q.L. "D"

(3) #2 AWG CU
CIRCUIT 14143

SEE NOTE 2

2,515.88'
N38°13'00"E

(3) #2 AWG CU
CIRCUIT 14143

℄ CLEVELAND AVE.

SEE NOTE 4

TEMPORARY POLE
(TO BE REMOVED) P1

SEE NOTE 1

EX. CIRCUIT (TO REMAIN)

336 KCMIL SPACER CABLE
CIRCUIT 14143

336 KCMIL SPACER CABLE
CIRCUIT 14143

336 KCMIL SPACER CABLE
CIRCUIT 14143

P3 TEMPORARY POLE
(TO BE REMOVED)

℄ EX. I.R.-71

SEE NOTE 4

SEE NOTE 4

SEE NOTE 4

CAMDEN AVE.

LEONA AVE.

PT STA. 288+75.77

STA. 68+24.0, 28.9' RT ℄ CLEVELAND AVE. P7
70' CLASS H1 WOOD POLE (TDMIS-1)
(INSTALLED IN TEMPORARY PLAN)
REMOVE SPAN GUYS
PROVIDE 14" SPACER CABLE TANGENT BRACKET
(TDMIS-300)

P12 STA. 62+49.3, 41.1' RT ℄ CLEVELAND AVE.
PROVIDE 60' CLASS H2 WOOD POLE (TDMIS-1)
SPACER CABLE TO SPACER CABLE DOUBLE
DEADEND (TDMIS-305)
COMPLETE DEADEND ASSEMBLY (SPECIAL)
(3) 100A FUSED CUTOUTS (TDMIS-26)
(1) DOWN GUY (TDMIS-100)
(4) DOUBLE DOWN GUY (TDMIS-101)

P4 TEMPORARY POLE
(TO BE REMOVED)

P5 TEMPORARY POLE
(TO BE REMOVED)

P6 TEMPORARY POLE
(TO BE REMOVED)

NOTES:
1. PROVIDE 336 KCMIL SPACER CABLE (CKT 14143) TO EXISTING POLE 105161, 170' WEST.
2. REMOVE SPAN GUYS INSTALLED IN TEMPORARY PLAN AFTER REMOVAL OF TEMPORARY CONDUCTORS TO THE SOUTH.
3. CONNECT NEW CONDUCTORS TO EXISTING CONDUCTORS AT CROSSARM. CONVERT ATTACHMENTS AT CROSSARM TO TANGENT IN ACCORDANCE WITH TDMIS-400.
4. REMOVE EXISTING OVERHEAD PRIMARY CONDUCTORS AFTER CUTOVER TO PERMANENT SYSTEM.

HORIZONTAL SCALE IN FEET
0 15 30 60

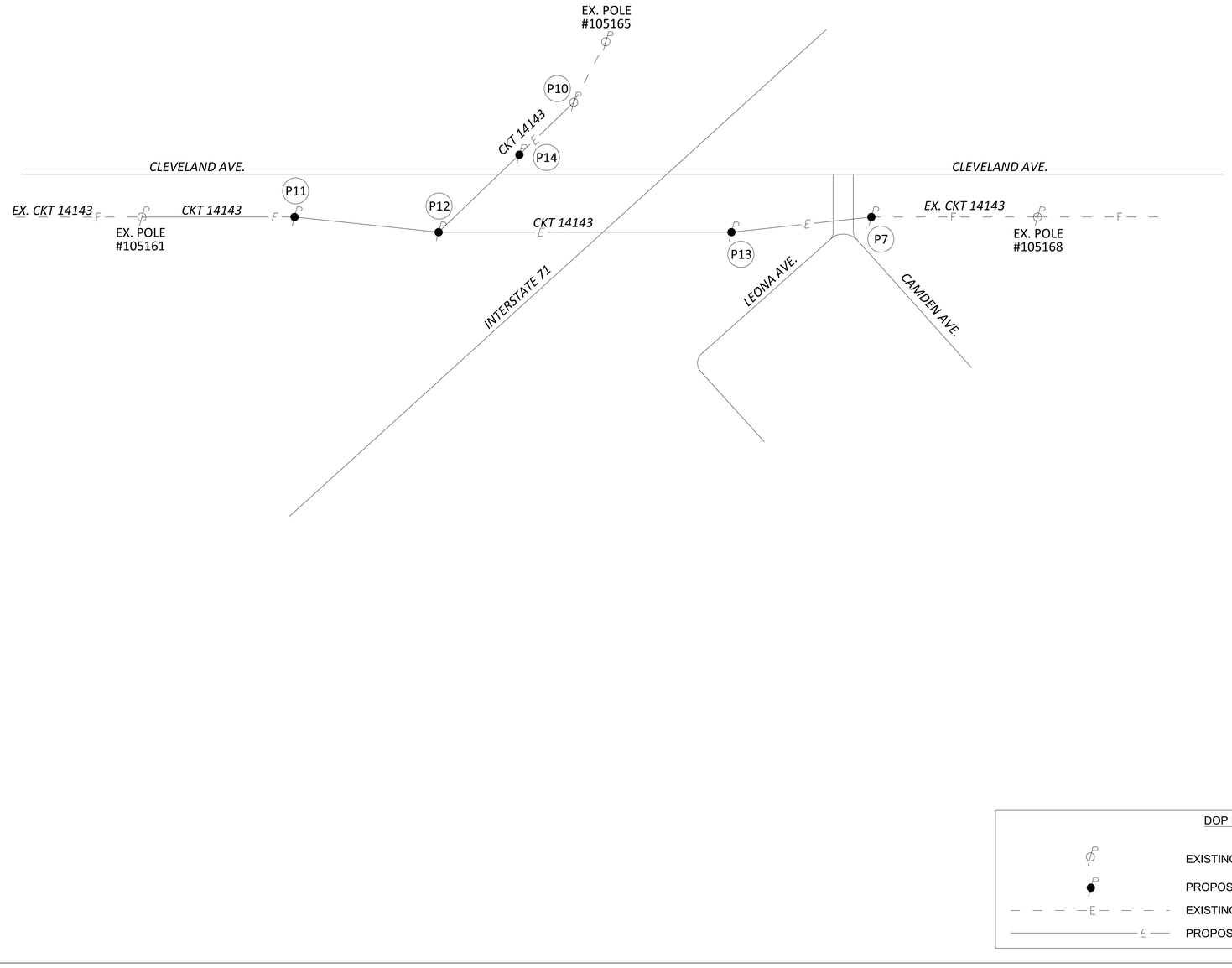
DOP POWER DISTRIBUTION PERMANENT POWER PLAN

FRA-3-1744

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DESIGN AGENCY
AEC Advanced Engineering Consultants

DESIGNER	JCS
REVIEWER	NA 06-10-26
PROJECT ID	120607
SHEET	P.74
TOTAL	130



DOP POWER LEGEND

- EXISTING WOOD POLE
- PROPOSED WOOD POLE, SIZE AS NOTED (TDMIS-1)
- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC (AS NOTED)

DOP POWER DISTRIBUTION PERMANENT CIRCUIT DIAGRAM

DESIGN AGENCY

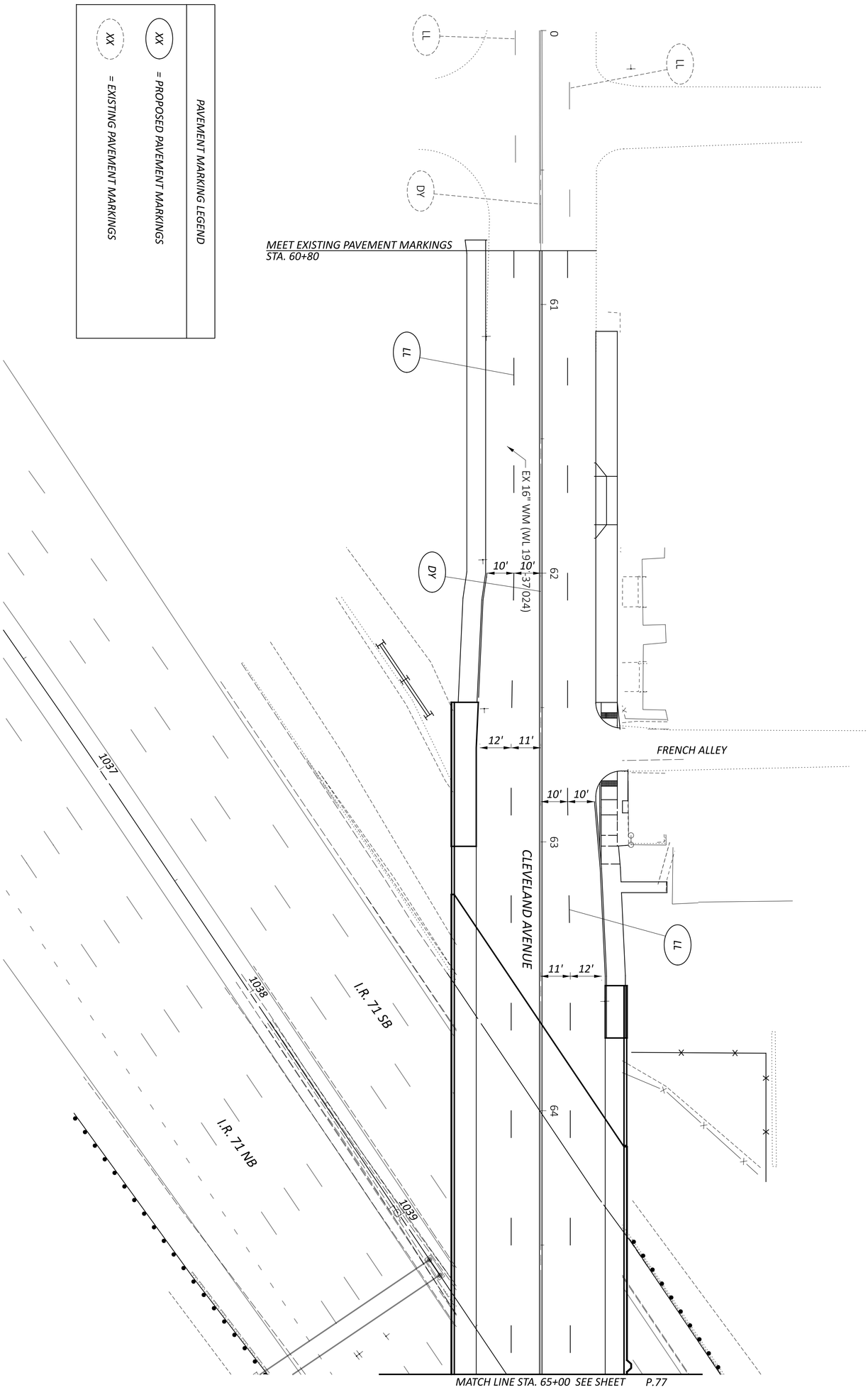
AEC Advanced Engineering Consultants

DESIGNER	JCS
REVIEWER	NA 06-10-26
PROJECT ID	120607
SHEET	P.75
TOTAL	130

FRA-3-1744

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SHEET	TOTAL
P.76	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: RLS

DESIGN AGENCY: EMH&T

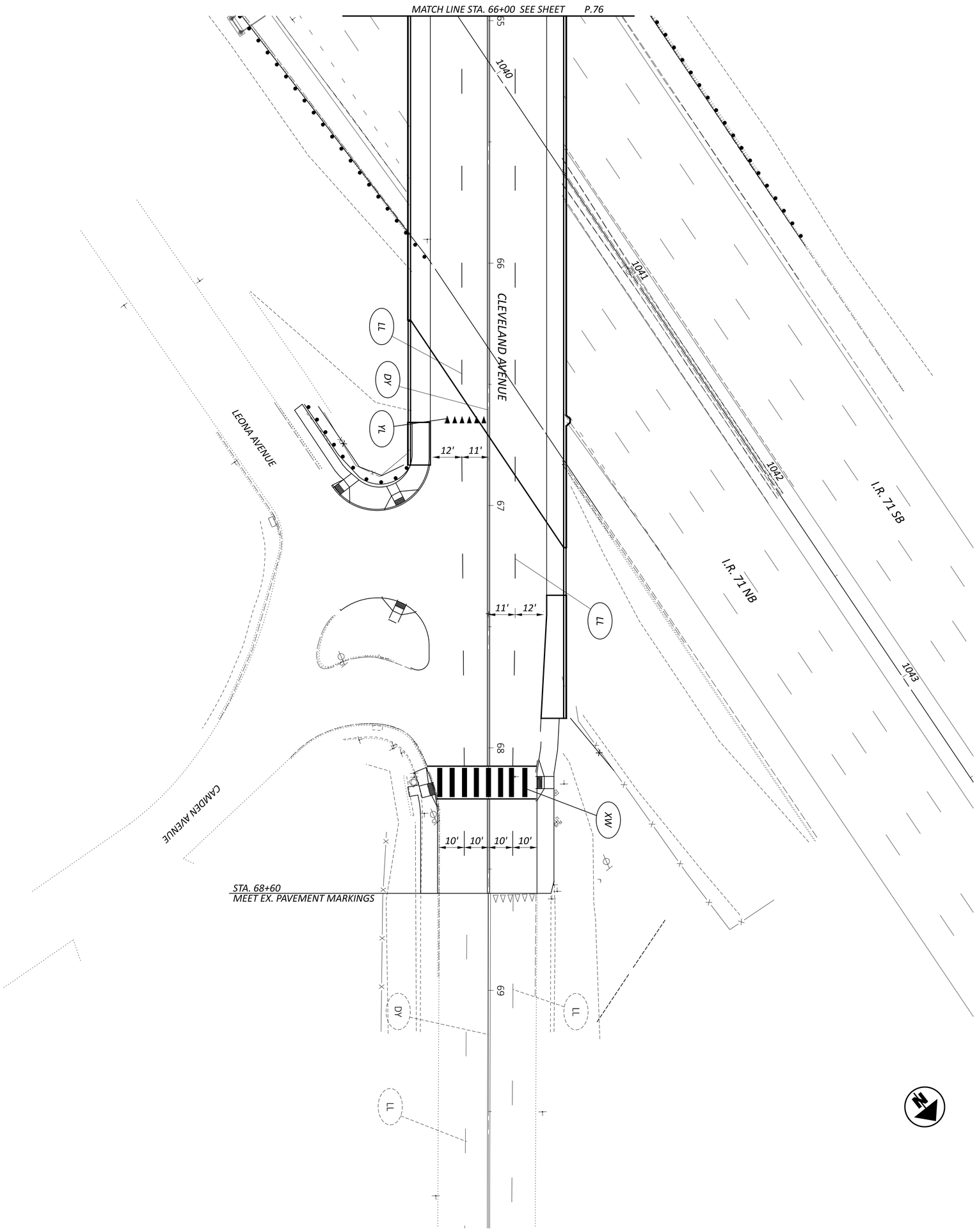
TRAFFIC CONTROL PLAN
CLEVELAND AVENUE - STA. 60+00 TO STA. 65+00

HORIZONTAL SCALE IN FEET

0 20

10 40

MODEL: CLRWX_R4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:24:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET	TOTAL
P.77	130

PROJECT ID: 120607

REVIEWER: SMM 06/12/26

DESIGNER: RLS

DESIGN AGENCY: EMH&T

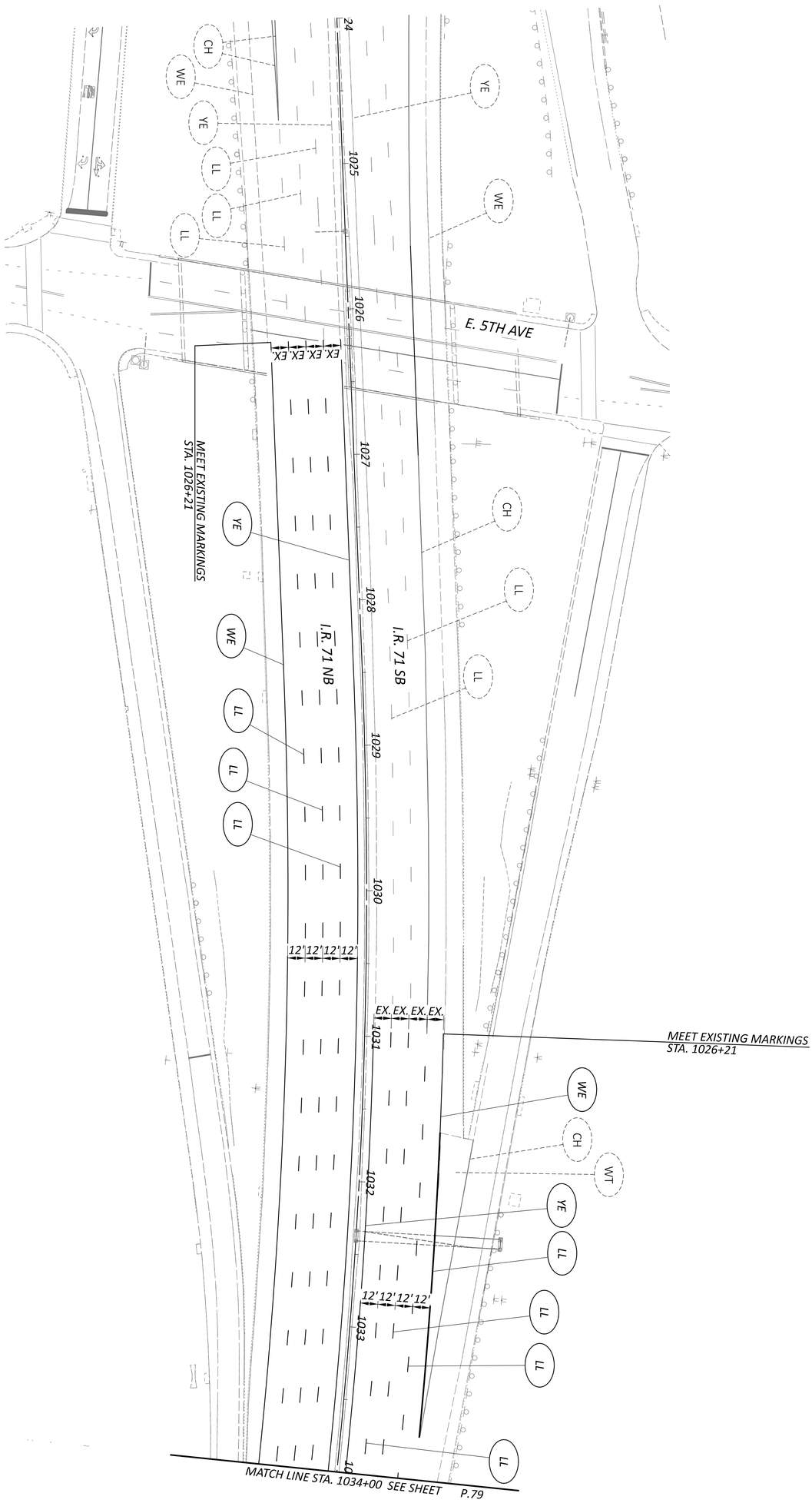
TRAFFIC CONTROL PLAN
CLEVELAND AVENUE - STA. 65+00 TO STA. 70+00

HORIZONTAL SCALE IN FEET

0 20

10 40

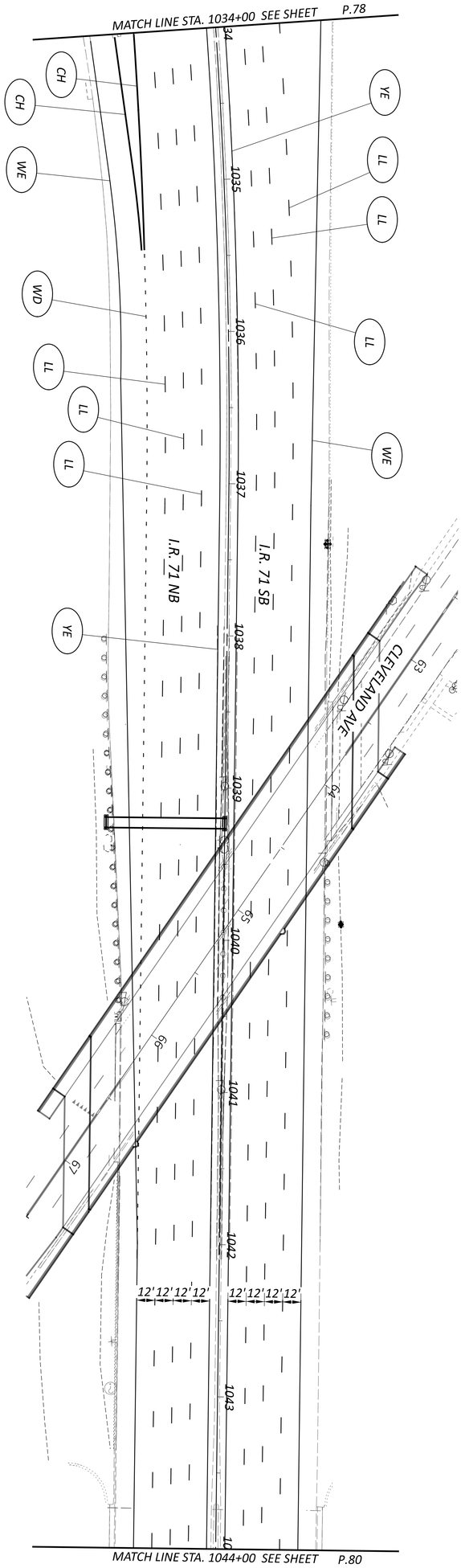
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SHEET P.78 / TOTAL 130	PROJECT ID 120607	REVIEWER SMM 06/12/26	DESIGNER BDM	DESIGN AGENCY EMH&T	TRAFFIC CONTROL PLAN I.R. 71 - STA. 1024+00 TO STA. 1034+00

HORIZONTAL SCALE IN FEET
0 40
20 80

MODEL: CLP_I071 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:24:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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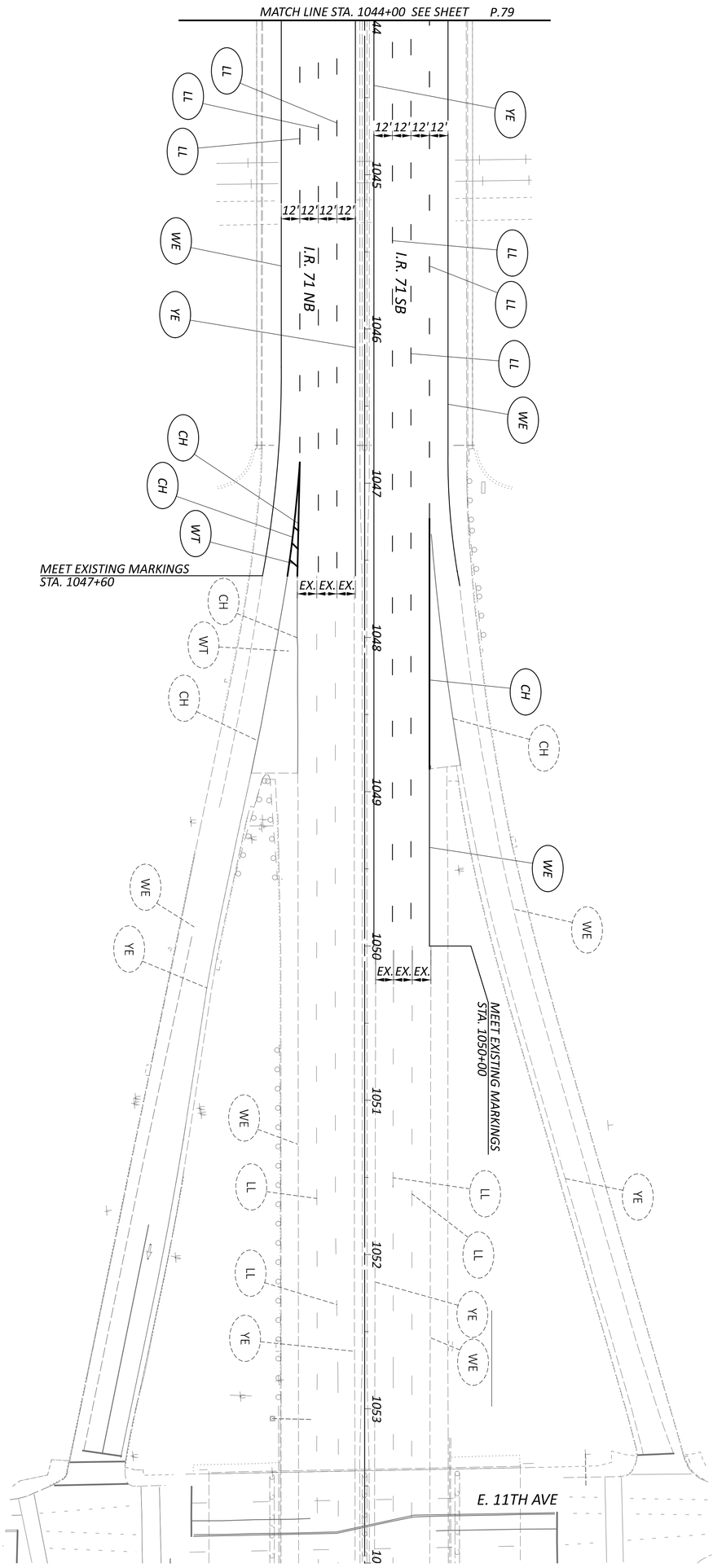
TRAFFIC CONTROL PLAN
I.R. 71 - STA. 1034+00 TO STA. 1044+00

HORIZONTAL SCALE IN FEET
0 40
20 80

SHEET	TOTAL
P.79	130

PROJECT ID: 120607
REVIEWER: SMM 06/12/26
DESIGNER: BDM
DESIGN AGENCY: EMH&T

MODEL: CLP_I071 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:24:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
BDM	SMM 06/12/26	120607	P.80	130

DESIGN AGENCY: EMH&T

TRAFFIC CONTROL PLAN
I.R. 71 - STA. 1044+00 TO STA. 1054+00

HORIZONTAL SCALE IN FEET
0 40
20 80

MODEL: CLRWX_R003 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:09 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY ITS PLAN
CLEVELAND AVENUE

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)
EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 52+75.2, 23.0' LT

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)
EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 53+49.1, 22.1' LT

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)
EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 54+14.4, 22.7' LT

EX. AEP WOOD POLE (TO REMAIN)
STA. 55+39.1, 18.3' LT

SHOEMAKER AVENUE

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 56+52.3, 20.0' LT

ESSEX AVENUE

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 57+84.5, 19.7' LT

Ex R/W
COC–DOT
INT

53 54 55 56 57 5

CLEVELAND AVENUE

MATCH LINE STA. 58+00

NEW YORK AVENUE

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)

EX. COC DOP WOOD POLE #105159 (TO REMAIN)
STA. 54+63.0, 25.2' RT

EX. AERIAL SPLICE ENCLOSURE (REUSE)
STA. 55+03.0, 25.4' RT

E SHOEMAKER AVENUE

TEMPORARY AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS = 144'
(SEE NOTE 2)

EX. COC DOP WOOD POLE #105158 (TO REMAIN)
STA. 56+06.5, 25.8' RT

EX. COC DOP WOOD POLE #105160 (TO REMAIN)
STA. 57+79.9, 23.5' RT

TEMPORARY AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS = 174'
(SEE NOTE 2)

NOTES:
1. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE TO REQUEST FIELD MARKINGS FOR THE EXISTING UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT THAT THERE ARE CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED TEMPORARY WOOD POLE LOCATIONS FOR DIRECTION ON HOW TO SOLVE THE CONFLICT.

2. TEMPORARY FIBER OPTIC CABLE SHALL BE PLACED A MINIMUM OF 20' ABOVE ROADWAY PAVEMENT AND 16' ABOVE UNPAVED SURFACES.

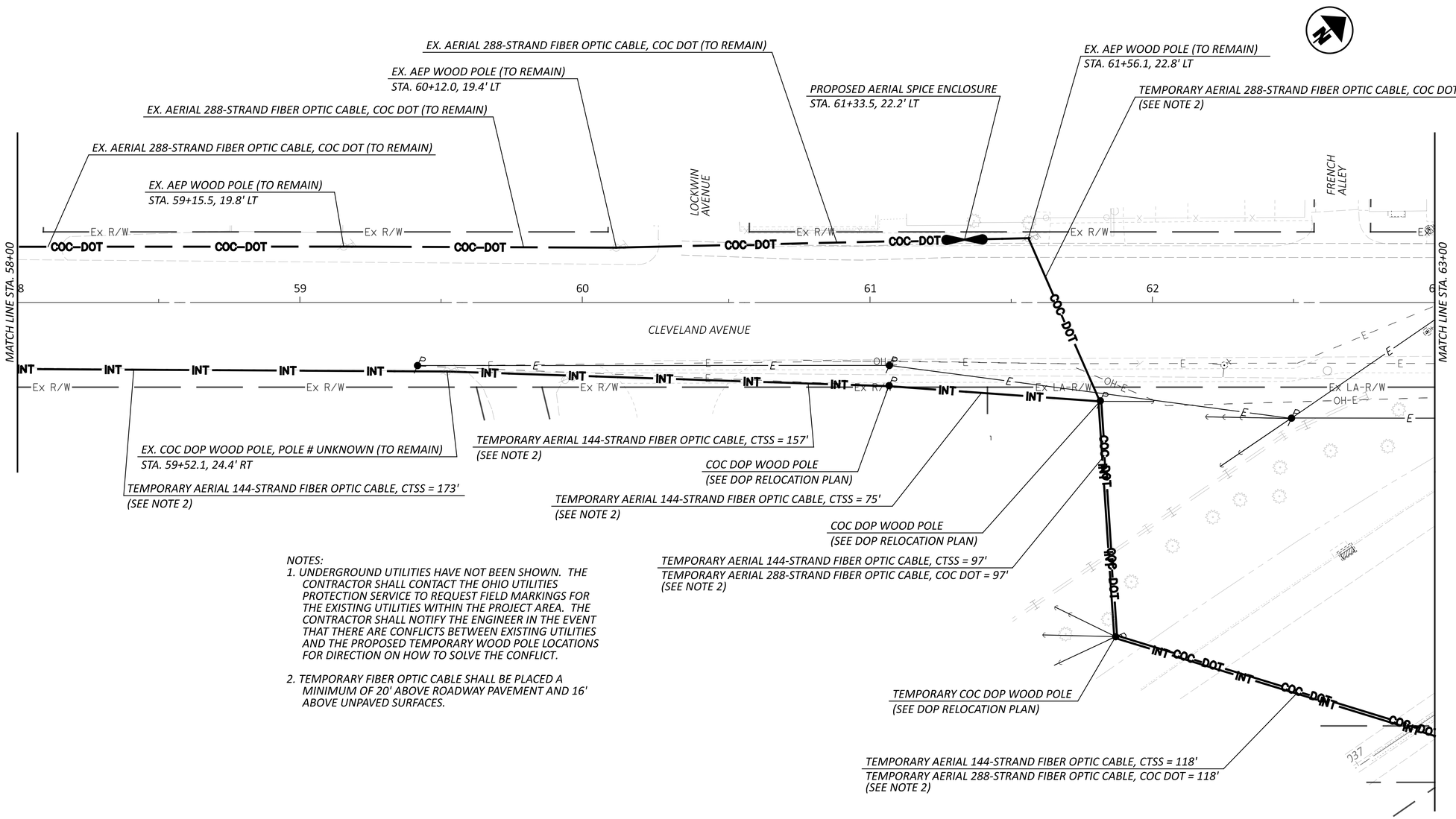
DESIGN AGENCY
EMH&T

DESIGNER
MSJ

REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.81 TOTAL 130



NOTES:

1. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE TO REQUEST FIELD MARKINGS FOR THE EXISTING UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT THAT THERE ARE CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED TEMPORARY WOOD POLE LOCATIONS FOR DIRECTION ON HOW TO SOLVE THE CONFLICT.
2. TEMPORARY FIBER OPTIC CABLE SHALL BE PLACED A MINIMUM OF 20' ABOVE ROADWAY PAVEMENT AND 16' ABOVE UNPAVED SURFACES.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY ITS PLAN CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER
MSJ

REVIEWER
DRM 06/12/26

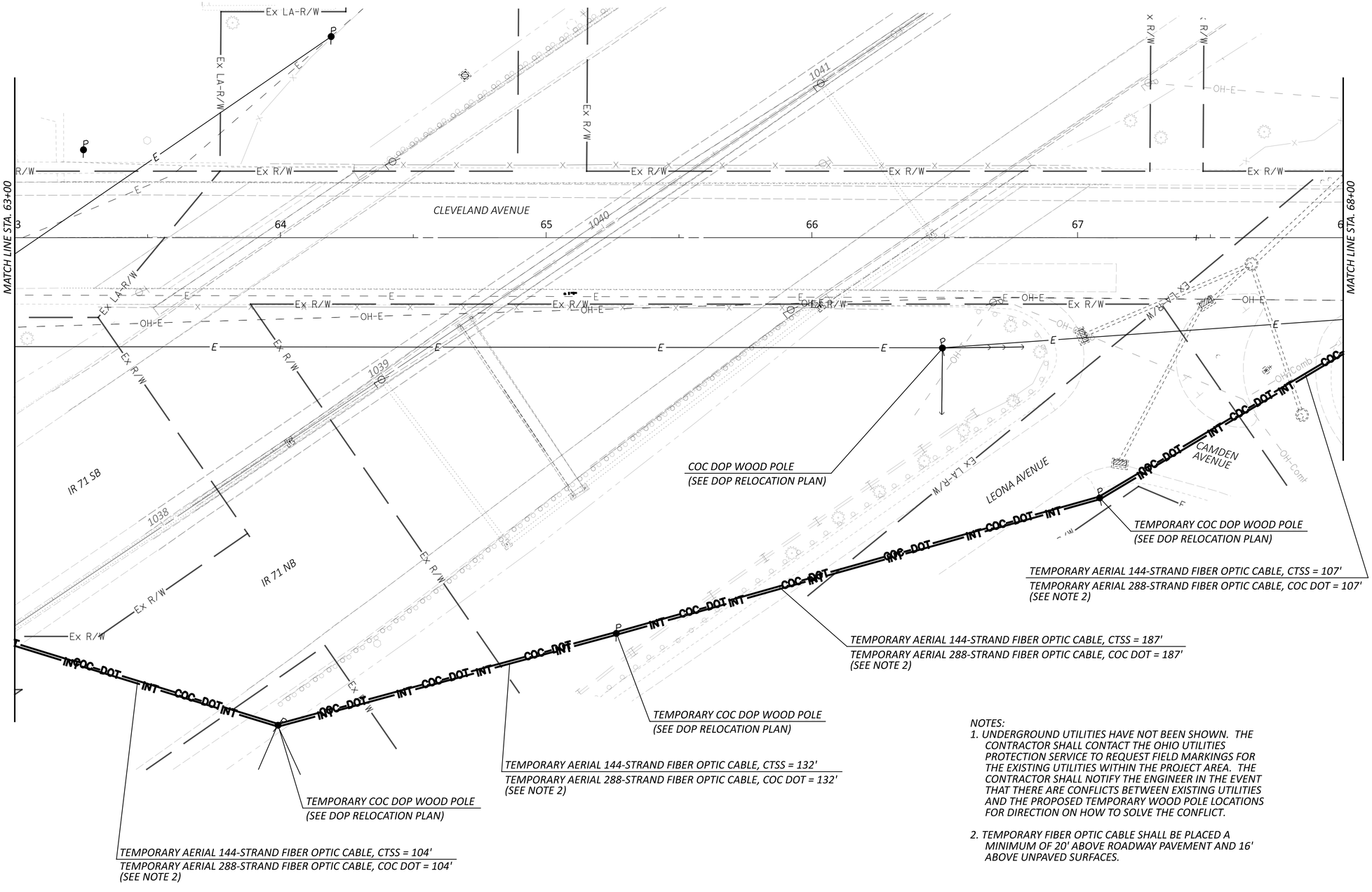
PROJECT ID
120607

SHEET P.82 | TOTAL 130

FRA-3-17.44

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NOTES:

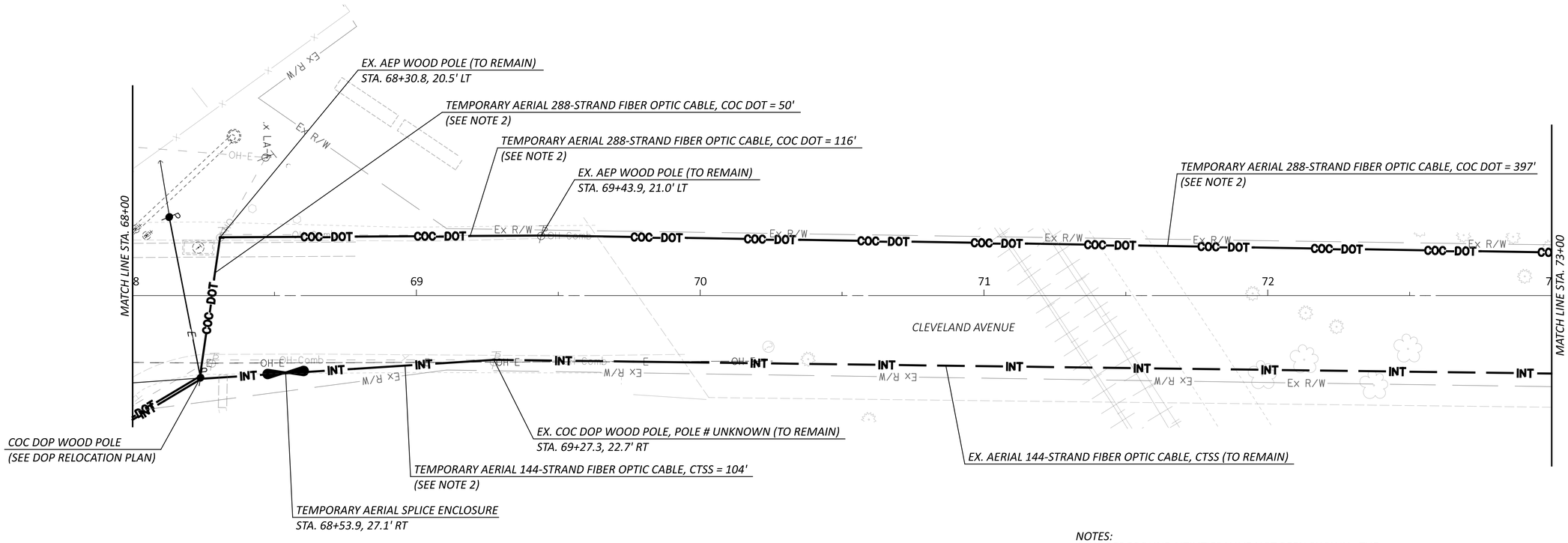
1. *UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE TO REQUEST FIELD MARKINGS FOR THE EXISTING UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT THAT THERE ARE CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED TEMPORARY WOOD POLE LOCATIONS FOR DIRECTION ON HOW TO SOLVE THE CONFLICT.*
2. *TEMPORARY FIBER OPTIC CABLE SHALL BE PLACED A MINIMUM OF 20' ABOVE ROADWAY PAVEMENT AND 16' ABOVE UNPAVED SURFACES.*

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER	MSJ
REVIEWER	DRM 06/12/26
PROJECT ID	120607
SHEET	P.83
TOTAL	130



NOTES:

1. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE TO REQUEST FIELD MARKINGS FOR THE EXISTING UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT THAT THERE ARE CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED TEMPORARY WOOD POLE LOCATIONS FOR DIRECTION ON HOW TO SOLVE THE CONFLICT.

2. TEMPORARY FIBER OPTIC CABLE SHALL BE PLACED A MINIMUM OF 20' ABOVE ROADWAY PAVEMENT AND 16' ABOVE UNPAVED SURFACES.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER
MSJ

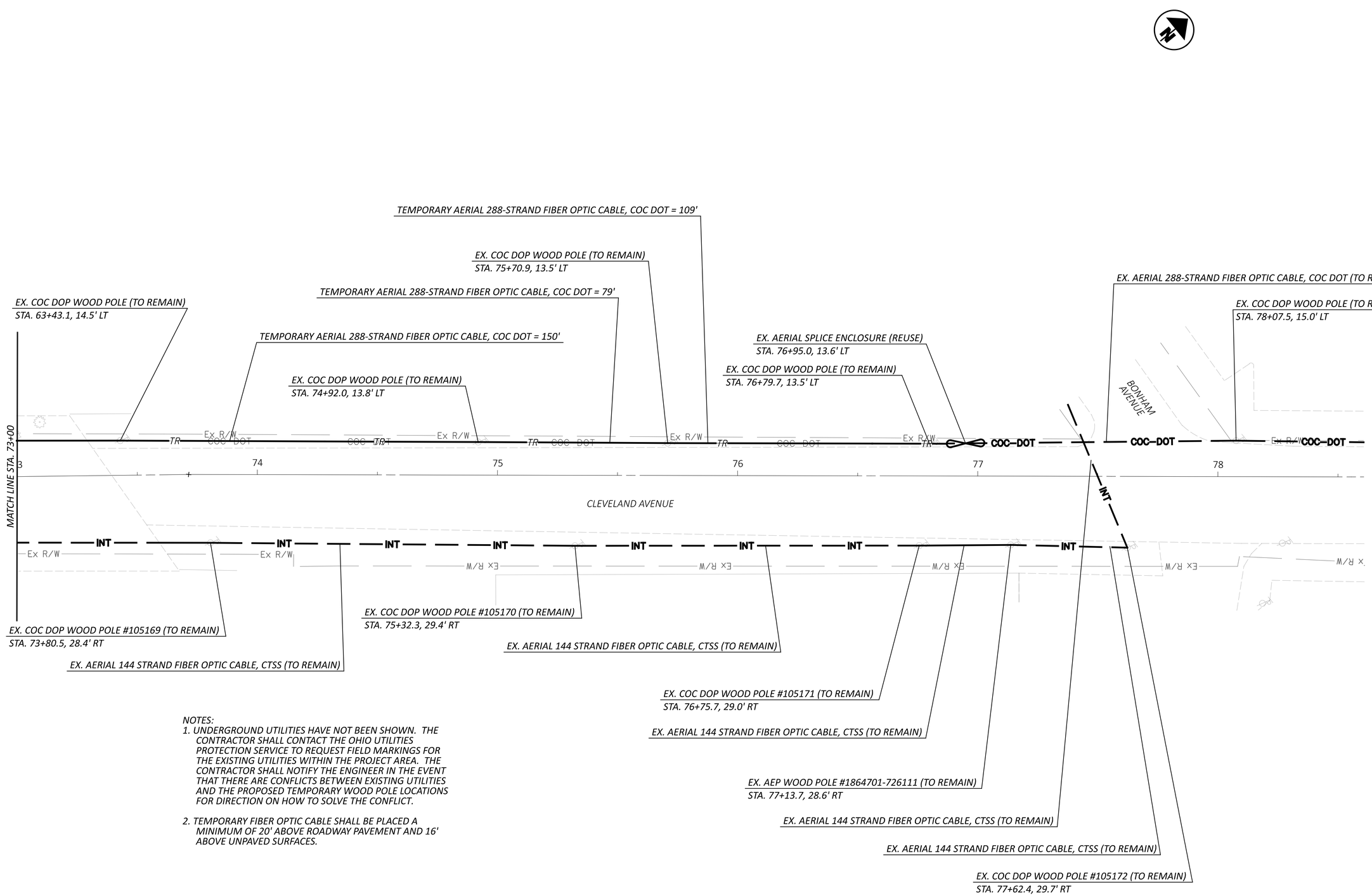
REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.84 | TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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NOTES:

1. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE TO REQUEST FIELD MARKINGS FOR THE EXISTING UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT THAT THERE ARE CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED TEMPORARY WOOD POLE LOCATIONS FOR DIRECTION ON HOW TO SOLVE THE CONFLICT.
2. TEMPORARY FIBER OPTIC CABLE SHALL BE PLACED A MINIMUM OF 20' ABOVE ROADWAY PAVEMENT AND 16' ABOVE UNPAVED SURFACES.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.85 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)
EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 53+49.1, 22.1' LT

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)
EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 54+14.4, 22.7' LT

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 55+39.1, 18.3' LT

SHOEMAKER AVENUE

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 56+52.3, 20.0' LT

ESSEX AVENUE

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT (TO REMAIN)

EX. AEP WOOD POLE (TO REMAIN)
STA. 57+84.5, 19.7' LT

Ex R/W
INT
COC–DOT

3 54 55 56 57 5

MATCH LINE STA. 58+00

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS (TO REMAIN)

CLEVELAND AVENUE

NEW YORK AVENUE

EX. COC DOP WOOD POLE #105159 (TO REMAIN)
STA. 54+63.0, 25.2' RT

EX. AERIAL SPLICE ENCLOSURE (REUSE)
STA. 55+03.0, 25.4' RT

PROPOSED AERIAL 144 STRAND FIBER OPTIC CABLE, CTSS = 144'
W/ EX. MESSENGER WIRE (TO REMAIN, DELASH AND RELASH CABLE)
(REMOVE EX. AERIAL FIBER OPTIC CABLE)

SHOEMAKER AVENUE

EX. COC DOP WOOD POLE #105158 (TO REMAIN)
STA. 56+06.5, 25.8' RT

PROPOSED AERIAL 144 STRAND FIBER OPTIC CABLE, CTSS = 174'
W/ EX. MESSENGER WIRE (TO REMAIN, DELASH AND RELASH CABLE)
(REMOVE EX. AERIAL FIBER OPTIC CABLE)

EX. COC DOP WOOD POLE #105160 (TO REMAIN)
STA. 57+79.9, 23.5' RT

PROPOSED AERIAL 144 STRAND FIBER OPTIC CABLE, CTSS = 173'
W/ EX. MESSENGER WIRE (TO REMAIN, DELASH AND RELASH CABLE)
(REMOVE EX. AERIAL FIBER OPTIC CABLE)

HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMHT

DESIGNER
MSJ

REVIEWER
DRM 06/12/26

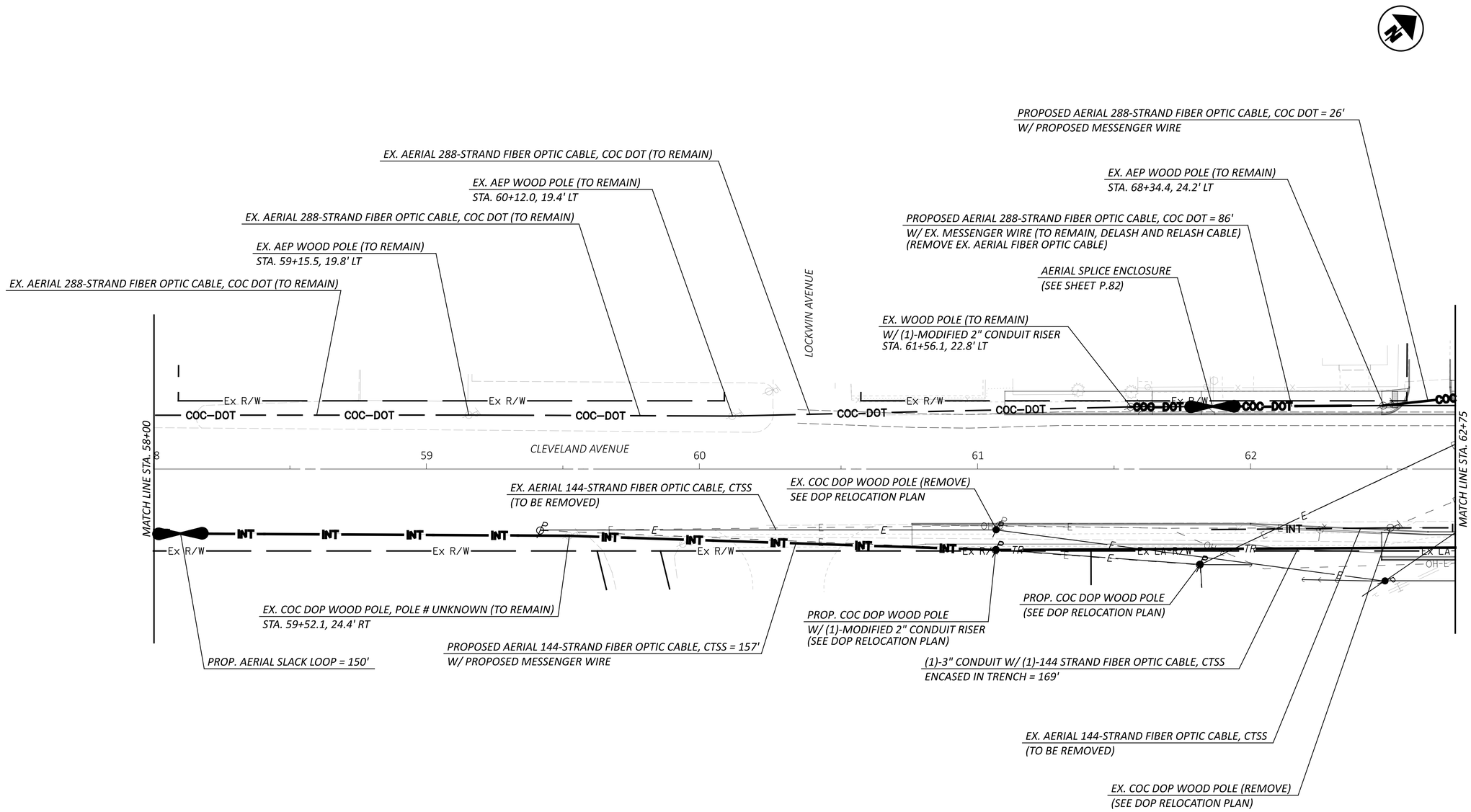
PROJECT ID
120607

SHEET P.86 | TOTAL 130

FRA-3-17.44

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HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMHT

DESIGNER	MSJ
REVIEWER	DRM 06/12/26
PROJECT ID	120607
SHEET	P.87
TOTAL	130

PROPOSED AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT = 30'
W/ PROPOSED MESSENGER WIRE
(REMOVE EX. AERIAL FIBER OPTIC CABLE)

EX. AEP WOOD POLE (TO REMAIN)
STA. 68+30.8, 20.5' LT.

PROPOSED AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT = 98'
W/ PROPOSED MESSENGER WIRE

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT
(TO BE REMOVED)

PROPOSED AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT = 20'
W/ PROPOSED MESSENGER WIRE
(REMOVE EX. AERIAL FIBER OPTIC CABLE)

PROP. WOOD POLE
W/ (1)-MODIFIED 2" CONDUIT RISER
W/ (1)-DOWN GUY
STA. 63+46.0, 33.8' LT.

PROP. WOOD POLE
W/ (1)-MODIFIED 2" CONDUIT RISER
W/ (1)-DOWN GUY
STA. 68+13.0, 27.7' LT.

(1)-3" CONDUIT W/ (1)-288-STRAND FIBER OPTIC CABLE, DOT
ENCASED IN TRENCH = 12'

(1)-3" CONDUIT W/ (1)-288-STRAND FIBER OPTIC CABLE, COC DOT
ENCASED IN TRENCH = 22'

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT
(TO BE REMOVED)

(1)-3" CONDUIT W/ (1)-288-STRAND FIBER OPTIC CABLE, COC DOT
ENCASED IN BRIDGE SIDEWALK = 630'
(SEE BRIDGE PLANS FOR LOCATION DETAILS)

PROPOSED 32" PULL BOX
STA. 63+50.6, 27.4' LT.

EX. AERIAL 288-STRAND FIBER OPTIC CABLE, COC DOT
(TO BE REMOVED)

PROPOSED 32" PULL BOX
STA. 67+91.1, 27.7' LT.

CLEVELAND AVENUE

MATCH LINE STA. 62+75

MATCH LINE STA. 68+60

I.R. 71 SB

I.R. 71 NB

PROPOSED 32" PULL BOX
STA. 62+98.8, 28.7' RT

(1)-3" CONDUIT W/ (1)-144-STRAND FIBER OPTIC CABLE, CTSS
ENCASED IN TRENCH = 24'

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS
(TO BE REMOVED)

(1)-3" CONDUIT W/ (1)-144-STRAND FIBER OPTIC CABLE,CTSS
ENCASED IN BRIDGE DECK = 391'
(SEE BRIDGE PLANS FOR LOCATION DETAILS)

PROPOSED COC DOP WOOD POLE
W/ (1)-MODIFIED 2" CONDUIT RISER
(SEE DOP RELOCATION PLAN)

(1)-3" CONDUIT W/ (1)-144-STRAND FIBER OPTIC CABLE,CTSS
ENCASED IN TRENCH = 44'

PROPOSED 32" PULL BOX
STA. 66+89.7, 30.1' RT.

EX. AERIAL 144-STRAND FIBER OPTIC CABLE, CTSS
(TO BE REMOVED)

LEONA AVENUE

CAMDEN AVENUE

PROPOSED AERIAL 144 STRAND FIBER OPTIC CABLE, CTSS = 176'
W/ PROPOSED MESSENGER WIRE

EX. COC DOP WOOD POLE #105167
STA. 68+28.0, 23.9' RT.

PROPOSED AERIAL 144 STRAND FIBER OPTIC CABLE, CTSS = 37'
W/ PROPOSED MESSENGER WIRE

PROP. AERIAL SLACK LOOP = 150'
STA. 68+53.8, 27.5' RT.

HORIZONTAL SCALE IN FEET
0 10 20 40

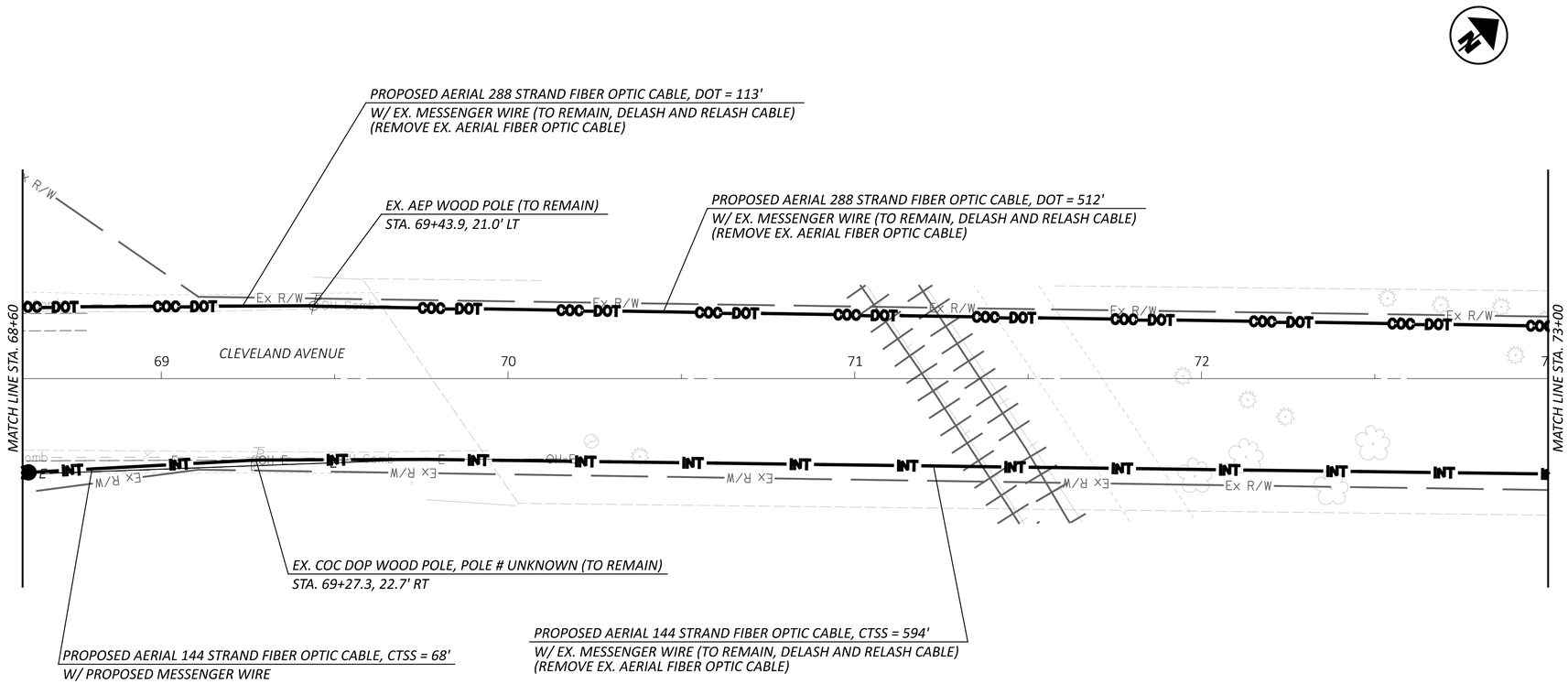
ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.88 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEx02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

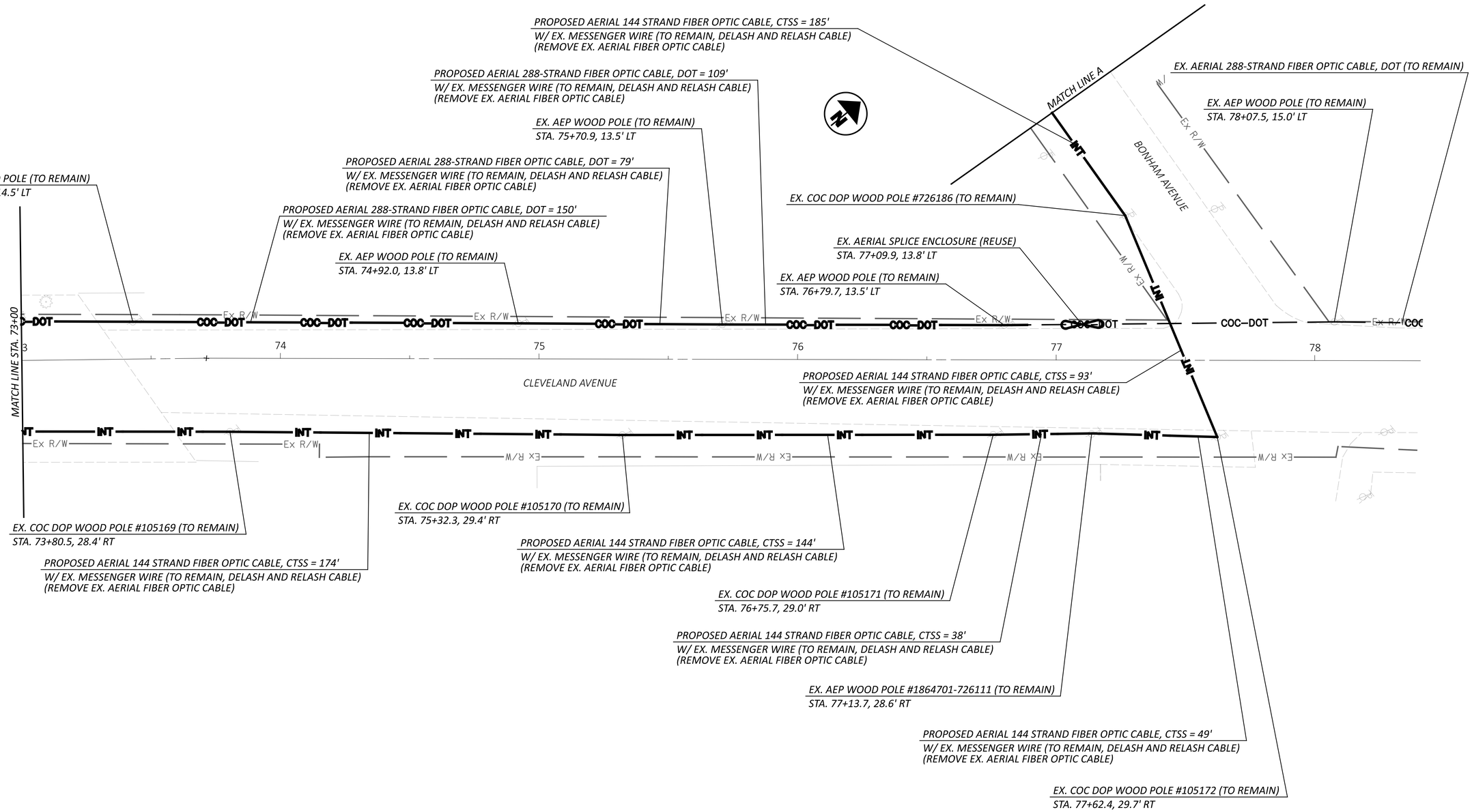
DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.89 TOTAL 130

FRA-3-17.44

MODEL: CLRWX_R003 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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FRA-3-17.44



HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

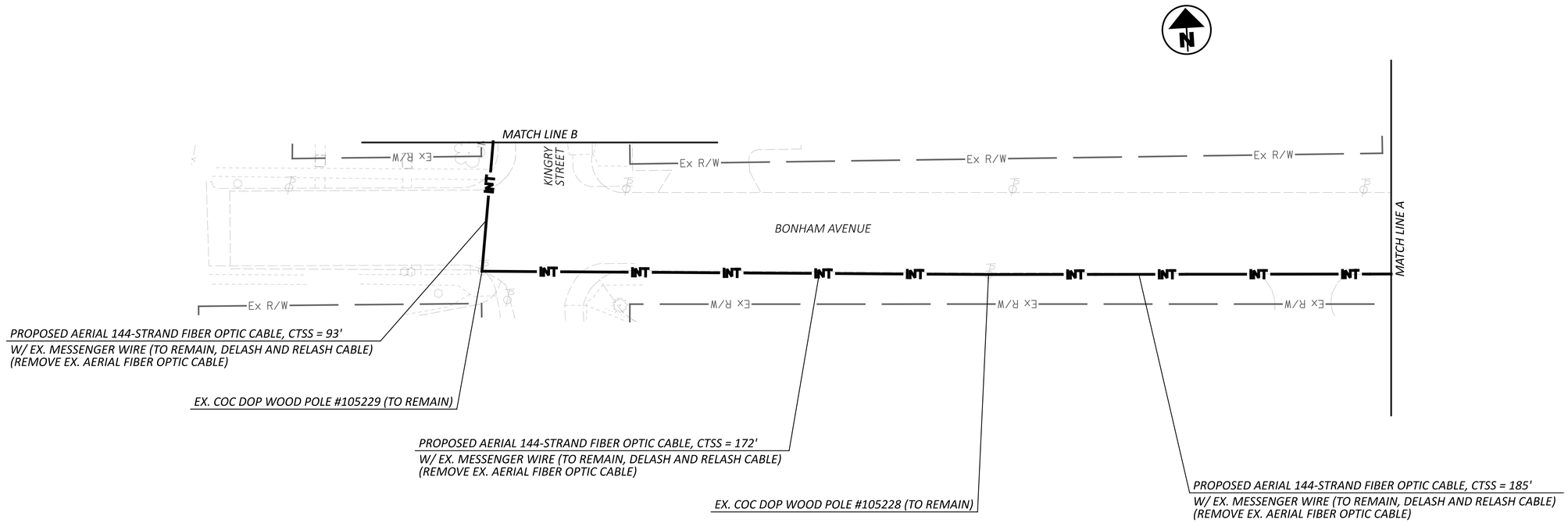
DESIGN AGENCY
EMH&T

DESIGNER
MSJ

REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.90 | TOTAL 130



HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

FRA-3-17.44

MODEL: Unnamed Plan-1 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCtv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
EMH&T

DESIGNER
MSJ

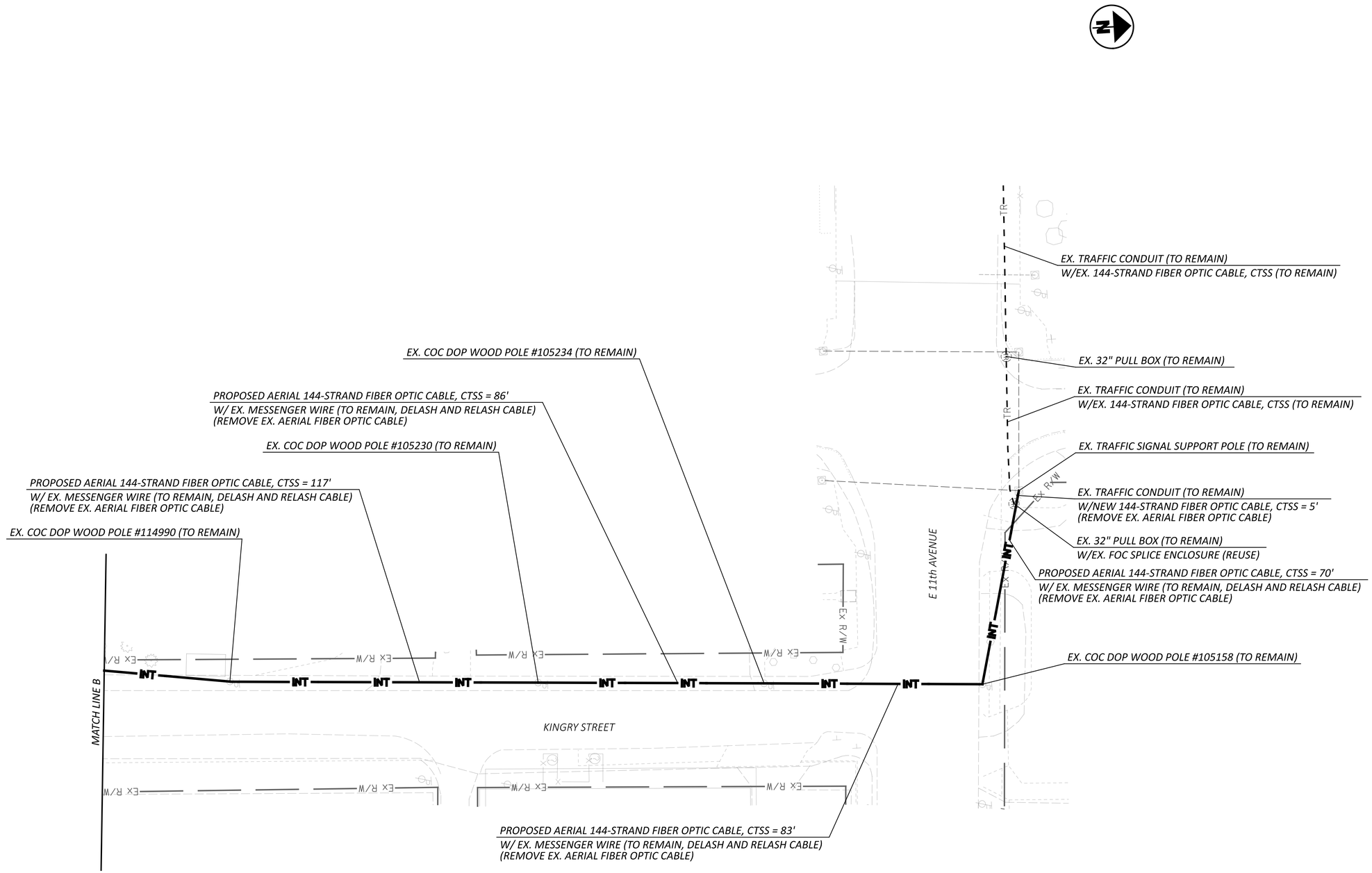
REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.91 TOTAL 130

MODEL: Unnamed Plan-2 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCtv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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FRA-3-17.44



HORIZONTAL SCALE IN FEET
0 10 20 40

ITS PLAN
CLEVELAND AVENUE

DESIGN AGENCY
EMH&T

DESIGNER
MSJ

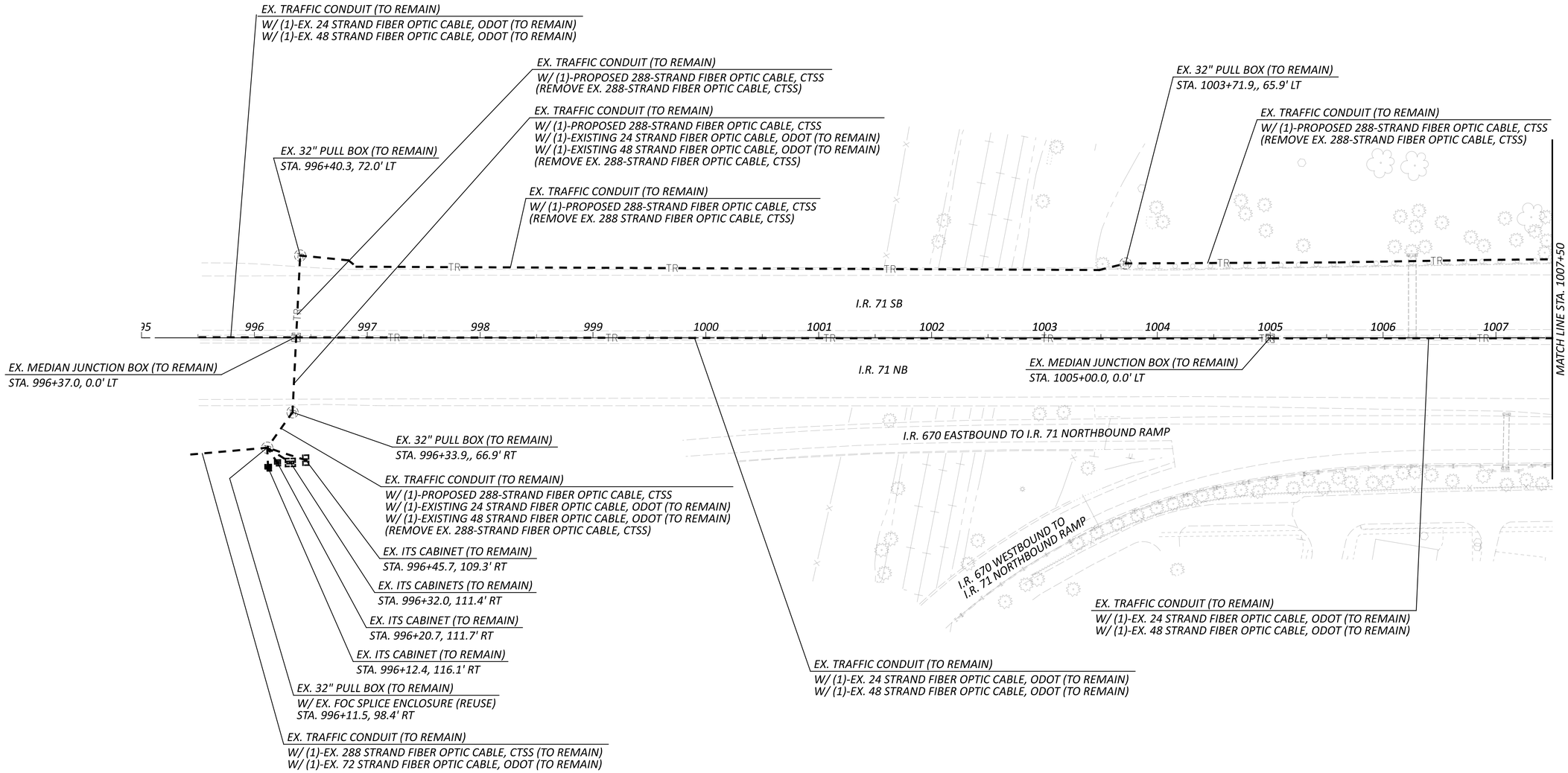
REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.92 | TOTAL 130

NOTES:
1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.

2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.



HORIZONTAL SCALE IN FEET
0 25 50 100

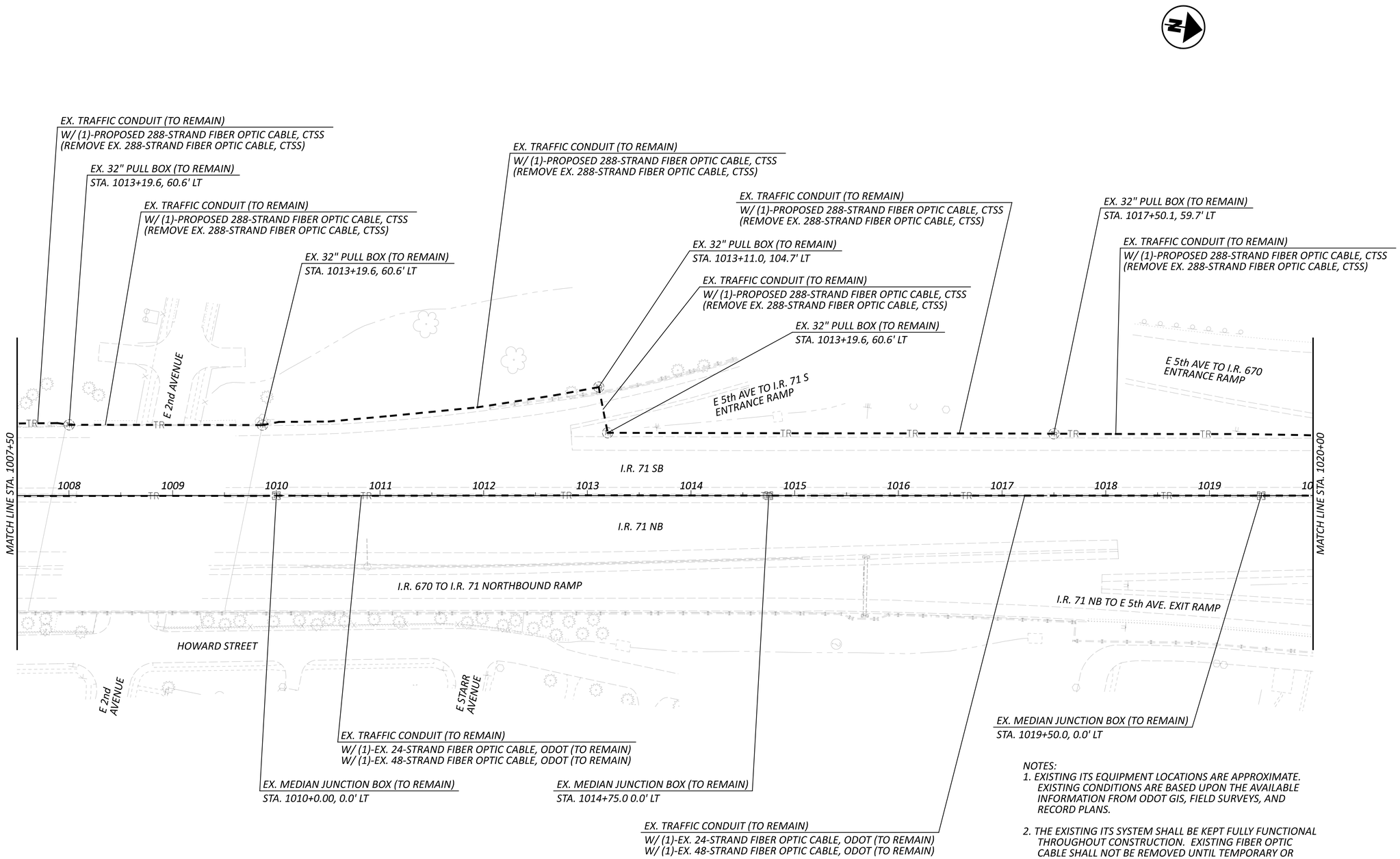
ITS PLAN
I.R. 71

DESIGN AGENCY
EMH&T

DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.93 TOTAL 130

FRA-3-17.44

MODEL: CLP_I73 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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NOTES:
1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.
2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
I.R. 71

DESIGN AGENCY
EMH&T

DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.94 TOTAL 130

FRA-3-17.44

MODEL: CLP_I73 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS
(REMOVE EX. 288-STRAND FIBER OPTIC CABLE, CTSS)

EX. 32" PULL BOX (TO REMAIN)
STA. 1020+28.5, 57.7' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE
(REMOVE EX. FIBER OPTIC CABLE)

EX. 32" PULL BOX (TO REMAIN)
STA. 1020+81.5, 104.4' LT

EX. 32" PULL BOX (TO REMAIN)
STA. 1026+81.5, 72.6' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS
(REMOVE EX. 288-STRAND FIBER OPTIC CABLE, CTSS)

EX. 32" PULL BOX (TO REMAIN)
STA. 1029+99.2, 70.9' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-EX. 288-STRAND FIBER OPTIC CABLE, CTSS (REMOVE)

EX. MEDIAN JUNCTION BOX (TO REMAIN)
STA. 1030+00.0, 0.0' LT

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ (1)-EXISTING 24-STRAND FIBER OPTIC CABLE, ODOT (RELOCATE)
W/ (1)-EXISTING 48-STRAND FIBER OPTIC CABLE, ODOT (REMOVED)

N WASHINGTON AVENUE

E 5th AVE TO I.R. 71 SB ENTRANCE RAMP

E 5th AVE TO I.R. 670 ENTRANCE RAMP

I.R. 71 SB TO E 5th AVE. EXIT RAMP

I.R. 71 SB

I.R. 71 NB

MATCH LINE STA. 1020+00

MATCH LINE STA. 1032+50

1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032

E 5th AVENUE

I.R. 71 NB TO E 5th AVE. EXIT RAMP

E 5th AVE TO I.R. 71 NB ENTRANCE RAMP

EX. MEDIAN JUNCTION BOX (TO REMAIN)
STA. 1024+90.3, 0.0' LT

EX. TRAFFIC CONDUIT(TO REMAIN)
W/ (1)-EXISTING 24-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)
W/ (1)-EXISTING 48-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)

EX. TRAFFIC CONDUIT(TO REMAIN)
W/ (1)-EXISTING 24-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)
W/ (1)-EXISTING 48-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ RELOCATED 24-STRAND FIBER OPTIC CABLE, ODOT
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (SOUTH, TO REMAIN)
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (NORTH, REMOVE)
W/ PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS

EX. 32" PULL BOX (TO REMAIN)
STA. 1030+00.8, 70.0' RT

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ RELOCATED 24-STRAND FIBER OPTIC CABLE, ODOT
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (SOUTH, TO REMAIN)
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (NORTH, REMOVE)
W/ PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS

EX. 32" PULL BOX (TO REMAIN)
STA. 1031+08.9, 93.7' RT

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ RELOCATED 24-STRAND FIBER OPTIC CABLE, ODOT
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (SOUTH, TO REMAIN)
W/ EX. 48-STRAND FIBER OPTIC CABLE, ODOT (NORTH, REMOVE)
W/ PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS

EX. 32" PULL BOX (TO REMAIN)
W/ EX. FOC SPLICE ENCLOSURE (REUSE)
STA. 1030+08.9, 137.2' RT

EX. ITS CABINET (TO REMAIN)
STA. 1031+16.5,148.3' RT

(1)-4" HDPE MULTICELL CONDUIT
W/ (1)-72-STRAND FIBER OPTIC CABLE, ODOT
W/ (1)-288-STRAND FIBER OPTIC CABLE, CTSS
DIRECTIONALLY DRILLED = 161'

NOTES:
1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.

2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.

3. THE EX. 24-STRAND FIBER OPTIC CABLE SHALL BE CUT AT THE MEDIAN JUNCTION BOX LOCATED AT STA. 1035+00. EX. 24-STRAND CABLE LOCATED BETWEEN EX. MEDIAN JUNCTION BOX AT 1030+00 AND 1035+00 SHALL BE PULLED OUT OF THE MEDIAN CONDUIT AND REROUTED TO THE EXISTING SPLICE ENCLOSURE LOCATED IN THE EXISTING PULL BOX AT STA. 1030+08.9, 137.2' RT. EX 24-STRAND CABLE IN THE MEDIAN SOUTH OF THE JUNCTION BOX AT 1030+00 SHALL REMAIN IN PLACE.

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
I.R. 71

DESIGN AGENCY
EMH&T

DESIGNER
MSJ

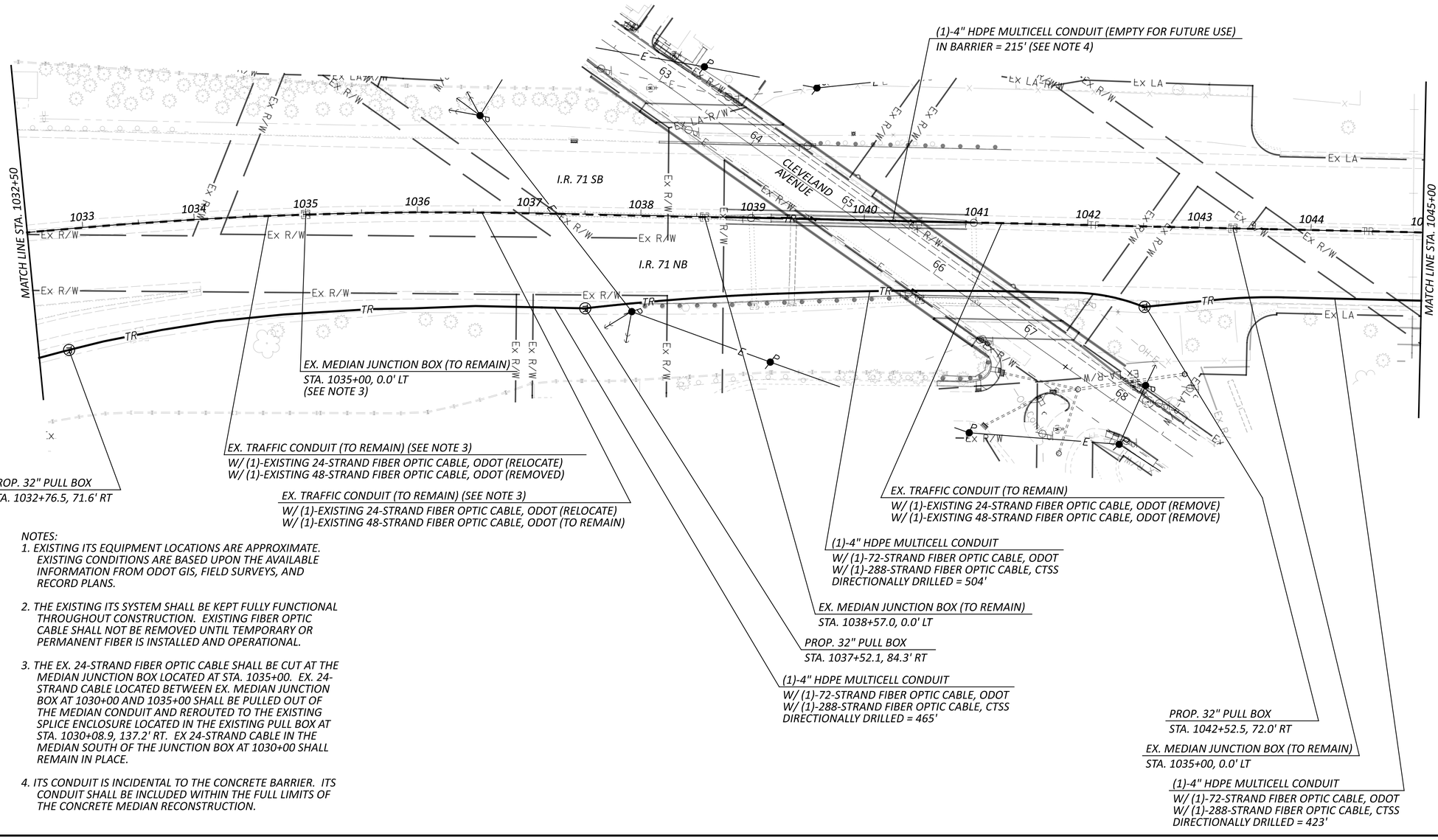
REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.95 TOTAL 130

FRA-3-17.44

MODEL: CLP_I73 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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NOTES:

1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.
2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.
3. THE EX. 24-STRAND FIBER OPTIC CABLE SHALL BE CUT AT THE MEDIAN JUNCTION BOX LOCATED AT STA. 1035+00. EX. 24-STRAND CABLE LOCATED BETWEEN EX. MEDIAN JUNCTION BOX AT 1030+00 AND 1035+00 SHALL BE PULLED OUT OF THE MEDIAN CONDUIT AND REROUTED TO THE EXISTING SPLICE ENCLOSURE LOCATED IN THE EXISTING PULL BOX AT STA. 1030+08.9, 137.2' RT. EX 24-STRAND CABLE IN THE MEDIAN SOUTH OF THE JUNCTION BOX AT 1030+00 SHALL REMAIN IN PLACE.
4. ITS CONDUIT IS INCIDENTAL TO THE CONCRETE BARRIER. ITS CONDUIT SHALL BE INCLUDED WITHIN THE FULL LIMITS OF THE CONCRETE MEDIAN RECONSTRUCTION.

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
I.R. 71

DESIGN AGENCY: EMH&T
DESIGNER: MSJ
REVIEWER: DRM 06/12/26
PROJECT ID: 120607
SHEET: P.96 TOTAL: 130

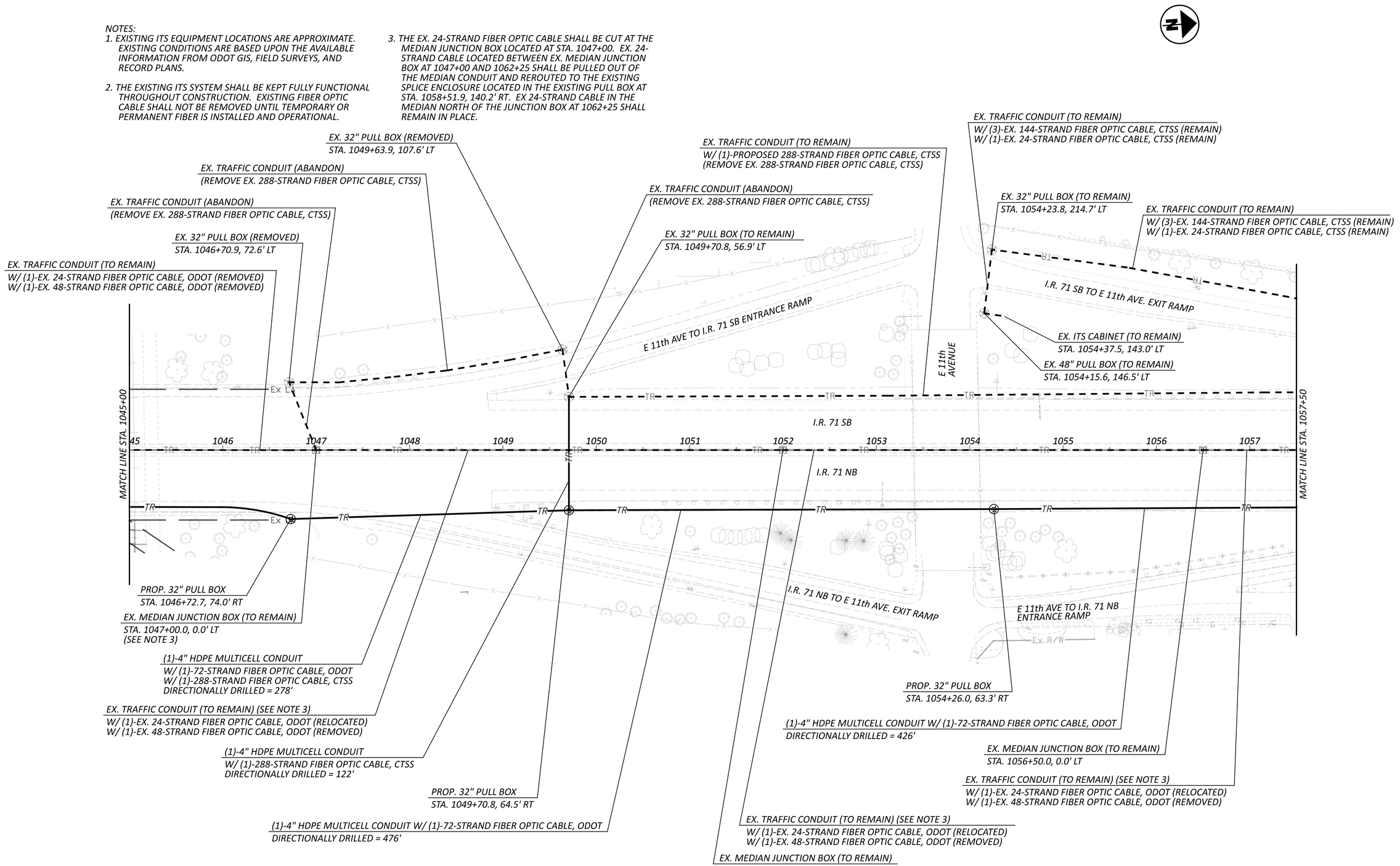
FRA-3-17.44

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NOTES:
1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.

2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.

3. THE EX. 24-STRAND FIBER OPTIC CABLE SHALL BE CUT AT THE MEDIAN JUNCTION BOX LOCATED AT STA. 1047+00. EX. 24-STRAND CABLE LOCATED BETWEEN EX. MEDIAN JUNCTION BOX AT 1047+00 AND 1062+25 SHALL BE PULLED OUT OF THE MEDIAN CONDUIT AND REROUTED TO THE EXISTING SPLICE ENCLOSURE LOCATED IN THE EXISTING PULL BOX AT STA. 1058+51.9, 140.2' RT. EX 24-STRAND CABLE IN THE MEDIAN NORTH OF THE JUNCTION BOX AT 1062+25 SHALL REMAIN IN PLACE.



HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
I.R. 71

FRA-3-17.44

MODEL: CLP_I73 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:34 AM PLTDRV: CHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY EMH&T
DESIGNER MSJ
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.97 TOTAL 130

EX. 32" PULL BOX (TO REMAIN)
STA. 1059+24.4, 62.2' LT

EX. 32" PULL BOX (TO REMAIN)
STA. 1059++30.9, 128.0' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS
(REMOVE EX. 288-STRAND FIBER OPTIC CABLE, CTSS)

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (3)-EX. 144-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)
W/ (1)-EX. 24-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS
(REMOVE EX. 288-STRAND FIBER OPTIC CABLE, CTSS)

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-PROPOSED 288-STRAND FIBER OPTIC CABLE, CTSS
W/ (1)-EX. 144-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)
W/ (1)-EX. 24-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)
(REMOVE EX. 288-STRAND FIBER OPTIC CABLE, CTSS)

EX. 48" PULL BOX (TO REMAIN)
W/ EX. FOC SPLICE ENCLOSURE (REUSE)
STA. 1062+06.2, 82.8' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-EX. 288-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)

EX. MEDIAN JUNCTION BOX (TO REMAIN)
STA. 1062+25.0, 0.0' LT

EX. TRAFFIC CONDUIT (TO REMAIN)
W/ (1)-EX. 288-STRAND FIBER OPTIC CABLE, CTSS (REMAIN)
W/ (1)-EX. 24-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (TO REMAIN)

I.R. 71 SB TO E 11th AVE. EXIT RAMP

I.R. 71 SB

MATCH LINE STA. 1057+50

1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 10

I.R. 71 NB

E 11th AVE TO I.R. 71 NB ENTRANCE RAMP

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ (1)-RELOCATED 24-STRAND FIBER OPTIC CABLE, ODOT
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (NORTH, TO REMAIN)
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (SOUTH, REMOVE)

EX. 32" PULL BOX (TO REMAIN)
STA. 1062+27.5, 73.8' RT

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ (1)-EX. 24-STRAND FIBER OPTIC CABLE, ODOT (RELOCATED)
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (REMOVED)

EX. TRAFFIC CONDUIT (TO REMAIN) (SEE NOTE 3)
W/ (1)-RELOCATED 24-STRAND FIBER OPTIC CABLE, ODOT
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (NORTH, TO REMAIN)
W/ (1)-EX. 48-STRAND FIBER OPTIC CABLE, ODOT (SOUTH, REMOVE)

PROP. 32" PULL BOX
STA. 1058+51.9, 61.0' RT

(1)-4" HDPE MULTICELL CONDUIT W/ (1)-72-STRAND FIBER OPTIC CABLE, ODOT
DIRECTIONALLY DRILLED = 80'

EX. 32" PULL BOX (TO REMAIN)
W/ EX. FOC SPLICE ENCLOSURE (REUSE)
STA. 1058+51.9, 140.2' RT

EX. ITS CABINET (REMAIN)
STA. 1058+38.7, 141.8' RT.

(1)-4" HDPE MULTICELL CONDUIT W/ (1)-72-STRAND FIBER OPTIC CABLE, ODOT
DIRECTIONALLY DRILLED = 426'

NOTES:
1. EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE. EXISTING CONDITIONS ARE BASED UPON THE AVAILABLE INFORMATION FROM ODOT GIS, FIELD SURVEYS, AND RECORD PLANS.

2. THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION. EXISTING FIBER OPTIC CABLE SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT FIBER IS INSTALLED AND OPERATIONAL.

3. THE EX. 24-STRAND FIBER OPTIC CABLE SHALL BE CUT AT THE MEDIAN JUNCTION BOX LOCATED AT STA. 1047+00. EX. 24-STRAND CABLE LOCATED BETWEEN EX. MEDIAN JUNCTION BOX AT 1047+00 AND 1062+25 SHALL BE PULL OUT OF THE MEDIAN CONDUIT AND REROUTED TO THE EXISTING SPLICE ENCLOSURE LOCATED IN THE EXISTING PULL BOX AT STA. 1058+51.9, 140.2' RT. EX. 24-STRAND CABLE IN THE MEDIAN NORTH OF JUNCTION BOX AT 1062+25 SHALL REMAIN IN PLACE.

HORIZONTAL SCALE IN FEET
0 50 100

ITS PLAN
I.R. 71

DESIGN AGENCY
EMH&T

DESIGNER
MSJ

REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.98 TOTAL 130

FRA-3-17.44

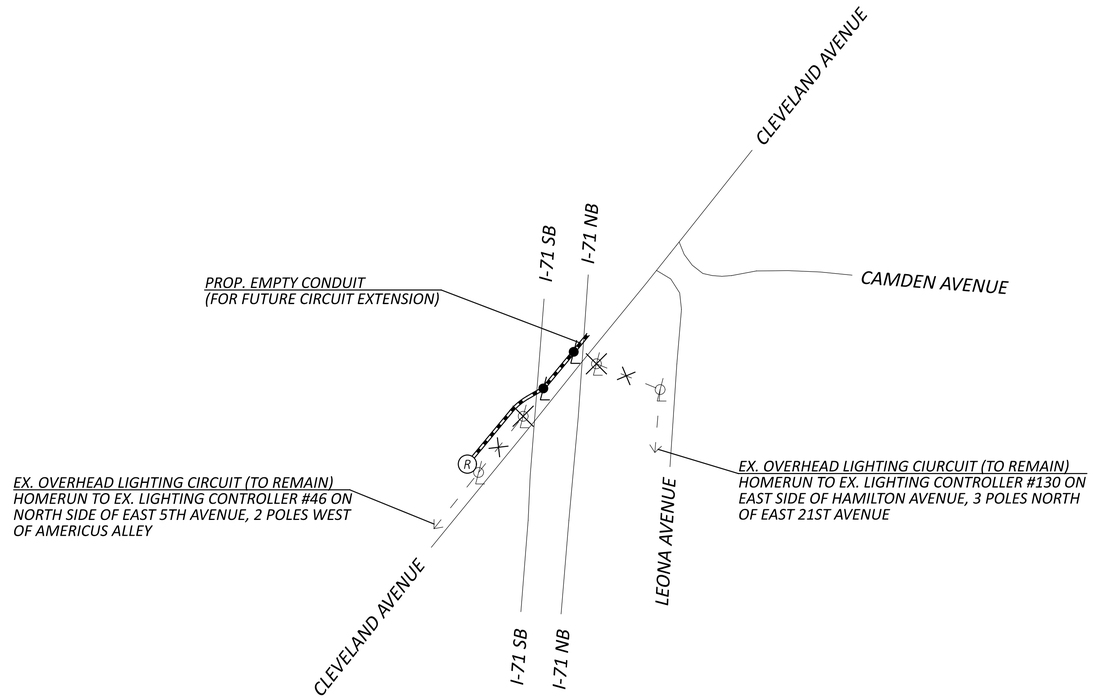
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FRA-3-17.44

LIGHTING SINGLE LINE DIAGRAM LEGEND

- EX. POLE AND COC DOP LUMINAIRE TO REMAIN
- EX. LIGHT POLE TO BE REMOVED
- PROP. LIGHT POLE
- PROP. CONDUIT RISER
- EX. OVERHEAD LIGHTING CIRCUIT TO REMAIN
- EX. OVERHEAD LIGHTING CIRCUIT TO BE REMOVED
- PROP. UNDERGROUND/BRIDGE LIGHTING CIRCUIT
- ROADWAY CENTERLINE



NO SCALE

COC LIGHTING SINGLE LINE DIAGRAM

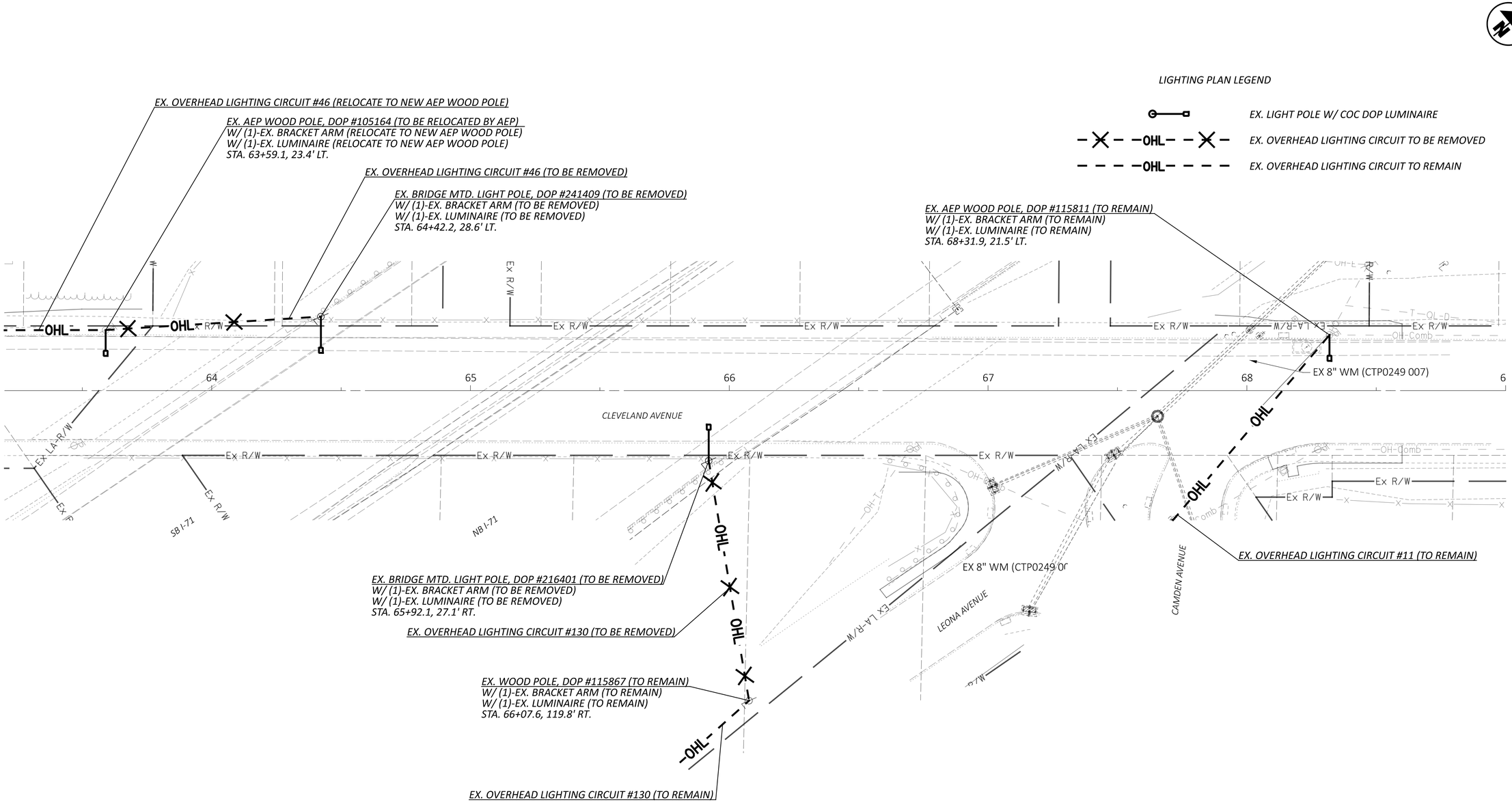
DESIGN AGENCY
EMH&T

DESIGNER
CJV

REVIEWER
DRM 06/12/26

PROJECT ID
120607

SHEET P.99 | TOTAL 130



NOTE TO REVIEWER:

EMH&T IS COORDINATING WITH AEP TO DEVELOP A RELOCATION PLAN IN THIS CORRIDOR. ADDITIONAL AEP RELOCATION DETAILS WILL BE PROVIDED IN A FUTURE SUBMITTAL.

HORIZONTAL SCALE IN FEET
0 10 20 40

COC LIGHTING REMOVAL PLAN
STA. 63+25 TO STA. 69+00

DESIGN AGENCY: EMH&T
DESIGNER: CJV
REVIEWER: DRM 06/12/26
PROJECT ID: 120607
SHEET: P.100 TOTAL: 130

FRA-3-17.44

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LIGHTING PLAN LEGEND

- EXISTING UTILITY POLE WITH LUMINAIRE AND BRACKET ARM TO REMAIN
- PROP. STREET LIGHT POLE, 12' BRACKET ARM, AND LUMINAIRE (MIS-300/800) (BRIDGE MOUNTED)
- OHL — EX. OVERHEAD LIGHTING CIRCUIT TO REMAIN

LIGHT POLE LEGEND

LEG / CIRCUIT # / POLE I.D.

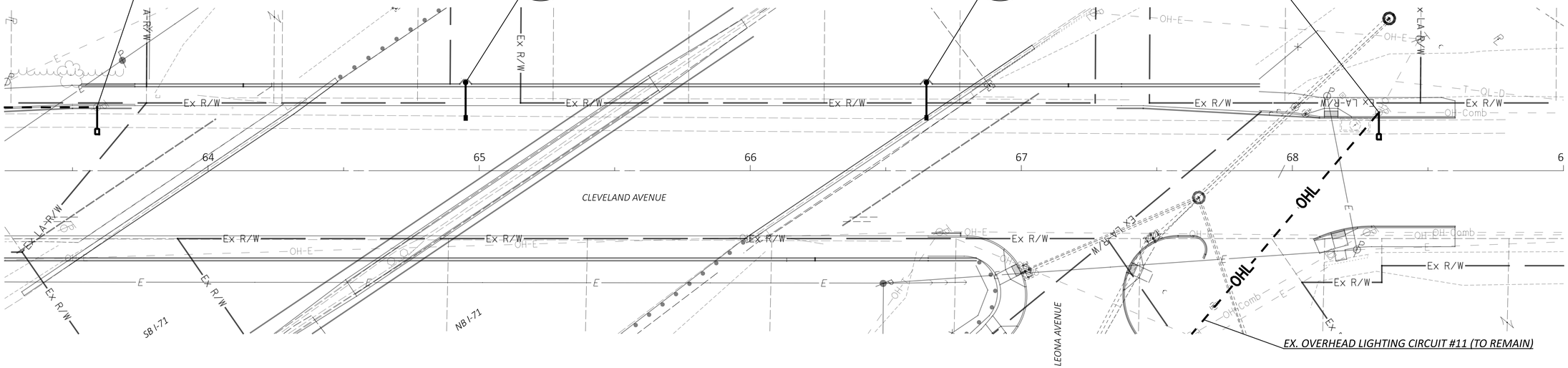
X-Y-Z
LUMINAIRE WATTS
MIS SPECIFICATION
STATION
OFFSET

EX. AEP WOOD POLE, DOP #105164 (RELOCATED BY AEP)
W/ (1)-EX. BRACKET ARM (RELOCATED)
W/ (1)-EX. LUMINAIRE (RELOCATED)
(FINAL LOCATION TO BE DETERMINED AFTER STAGE 1 SUBMITTAL)

46-A-1
109W
MIS-300/800
64+95.0
32.6' LT.

46-A-2
109W
MIS-300/800
66+65.0
32.6' LT.

EX. AEP WOOD POLE, DOP #115811 (TO REMAIN)
W/ (1)-EX. BRACKET ARM (TO REMAIN)
W/ (1)-EX. LUMINAIRE (TO REMAIN)
STA. 68+31.9, 21.5' LT.



NOTES

1. PROPOSED LIGHTING CIRCUITRY WILL BE INCLUDED IN A FUTURE SUBMITTAL.

HORIZONTAL SCALE IN FEET
0 10 20 40

COC LIGHTING PLAN
STA. 63+25 TO STA. 69+00

DESIGN AGENCY: EMH&T

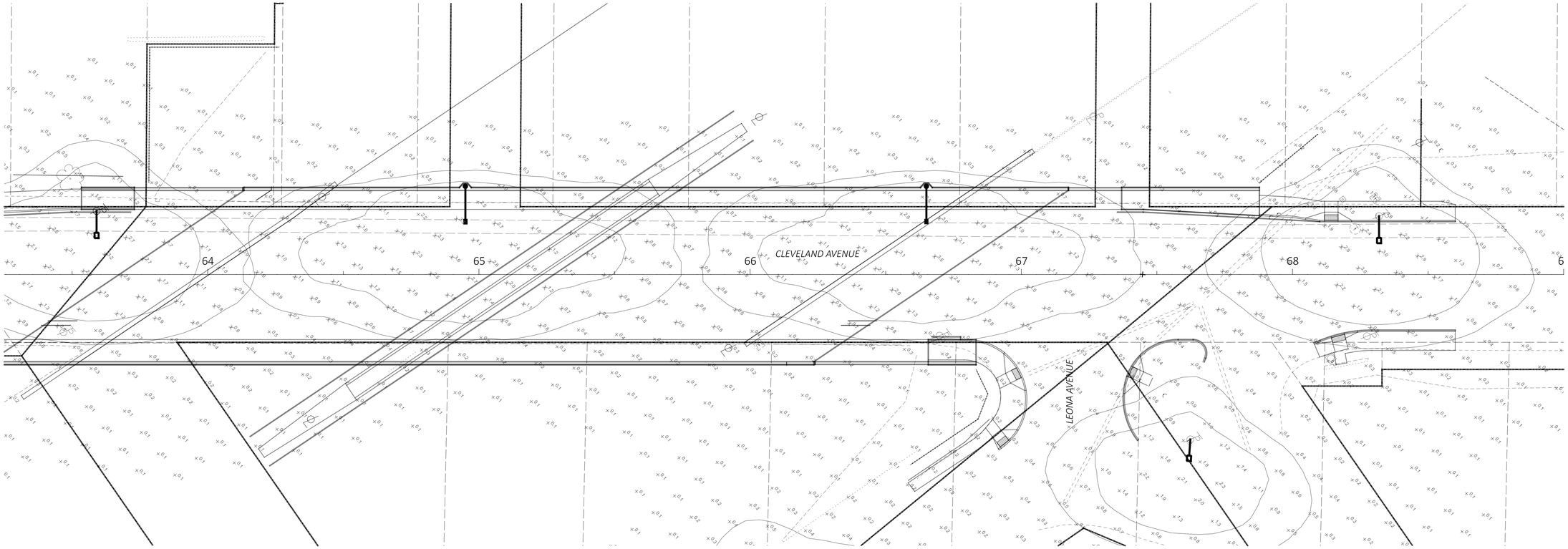
DESIGNER	CJV
REVIEWER	DRM 06/12/26
PROJECT ID	120607
SHEET	P.101
TOTAL	130

FRA-3-17.44

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ROADWAY	ROADWAY CLASSIFICATION	PEDESTRIAN AREA CLASSIFICATION	TARGET AVERAGE (FC)	TARGET UNIFORMITY (AVG:MIN)	PROPOSED AVERAGE (FC)	PROPOSED UNIFORMITY (AVG:MIN)	EXISTING AVERAGE (FC)	EXISTING UNIFORMITY (AVG:MIN)
CLEVELAND AVENUE	ARTERIAL	MEDIUM	1.3	3.0:1	1.3	2.8:1	1.3	4.3:1

CATALOG NUMBER	FILE	LUMENS	LLF	WATTS	ARM LENGTH
ERL2 H 16 B7 30	ERL2_16B730.ies	15,300	0.86	109	12'



HORIZONTAL SCALE IN FEET
0 10 20 40

COC PHOTOMETRIC PLAN
STA. 63+25 TO STA. 69+00

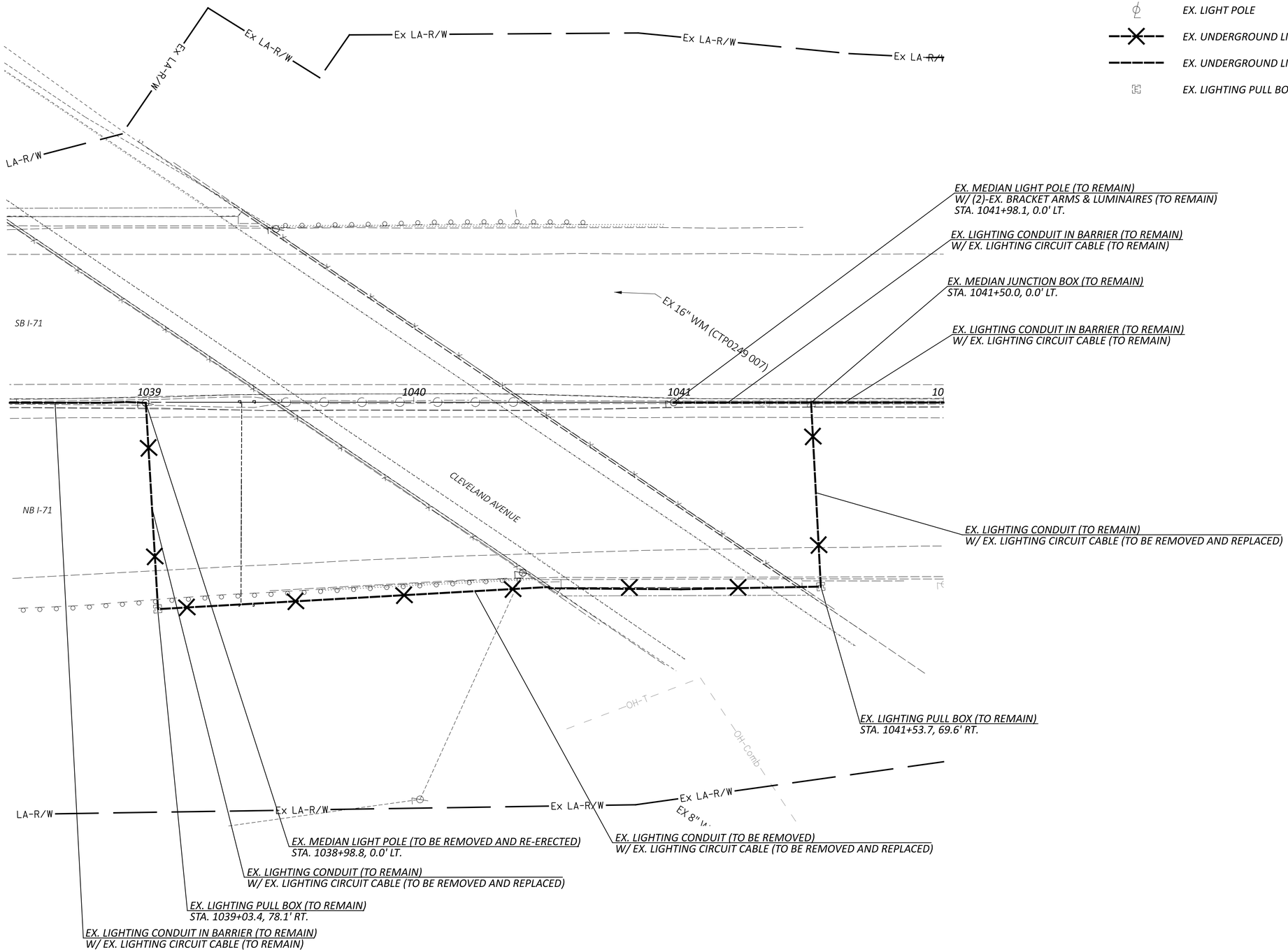
DESIGN AGENCY
EMH&T

DESIGNER CJV
REVIEWER DRM 06/12/26
PROJECT ID 120607
SHEET P.102 TOTAL 130

FRA-3-17.44

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MODEL: CLP_I72 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:26:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCivil02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LIGHTING PLAN LEGEND

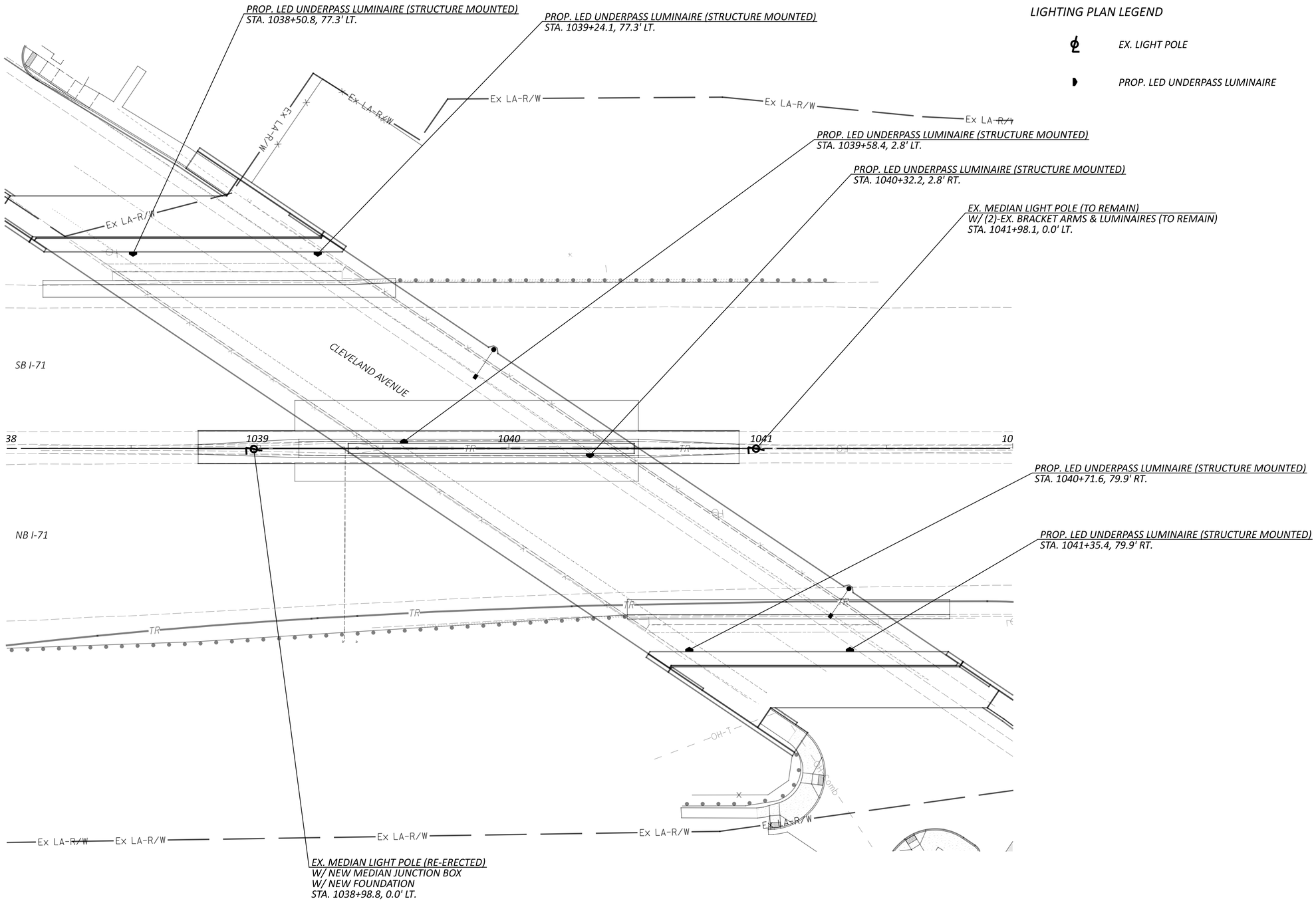
- EX. LIGHT POLE
- EX. UNDERGROUND LIGHTING CIRCUIT TO BE REMOVED
- EX. UNDERGROUND LIGHTING CIRCUIT TO REMAIN
- EX. LIGHTING PULL BOX

HORIZONTAL SCALE IN FEET
0 10 20 40

ODOT LIGHTING REMOVAL PLAN
STA. 1038+50 TO STA. 1042+00

DESIGN AGENCY
EMH&T

DESIGNER	CJV
REVIEWER	DRM 06/12/26
PROJECT ID	120607
SHEET	P.103
TOTAL	130



NOTES

1. PROPOSED LIGHTING CIRCUITRY WILL BE INCLUDED IN A FUTURE SUBMITTAL.

ODOT LIGHTING PLAN
STA. 1038+50 TO STA. 1042+00

DESIGN AGENCY: EMH&T

DESIGNER: CJV

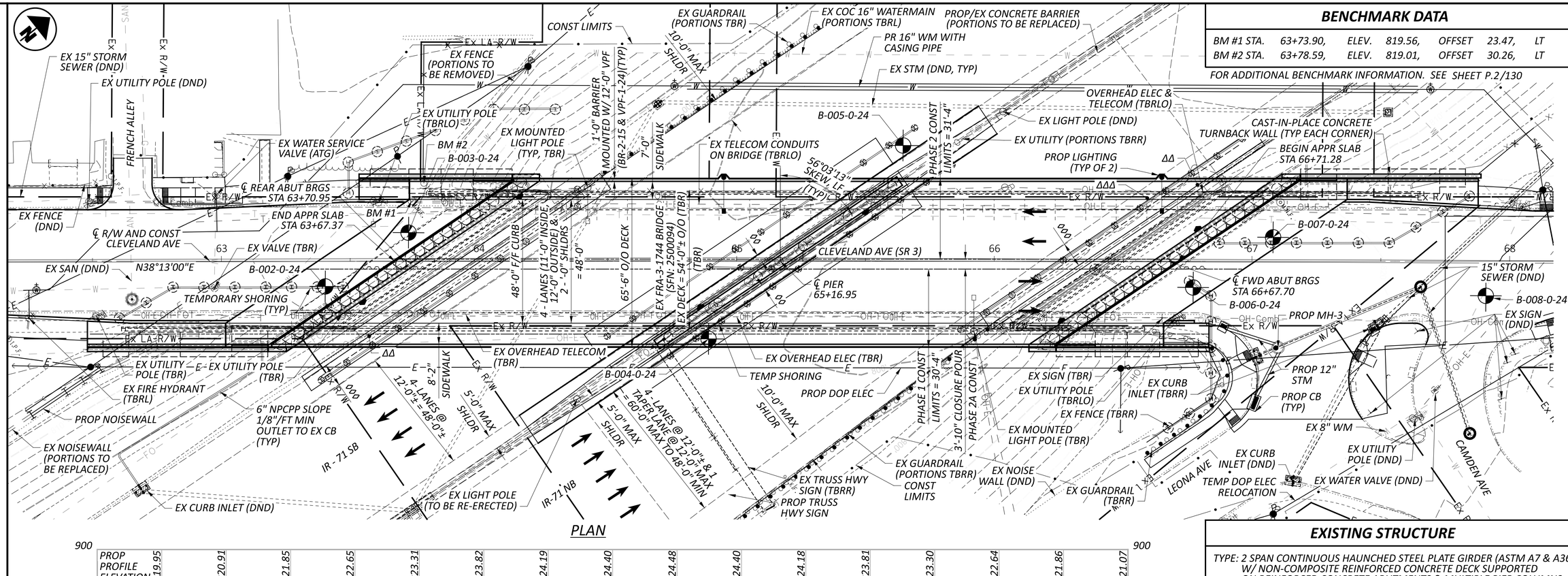
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PROJECT ID: 120607

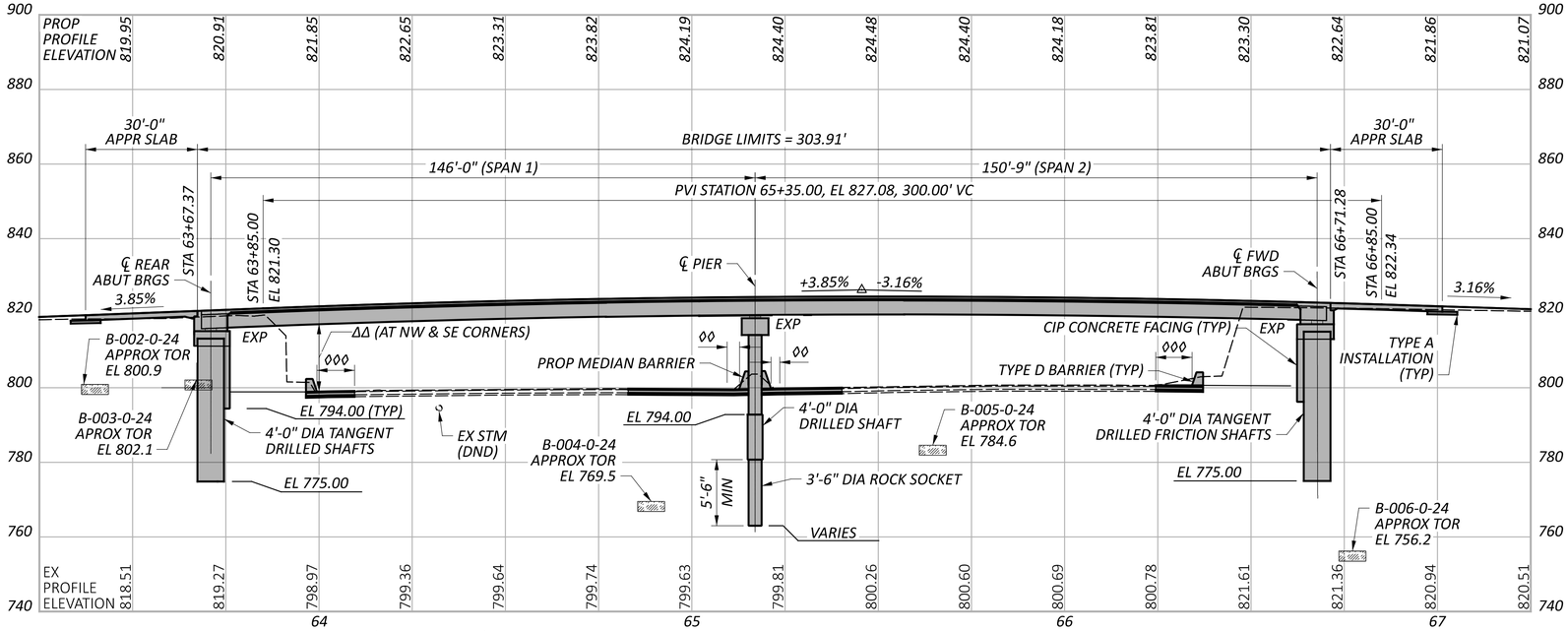
SHEET: P.104 TOTAL: 130

FRA-3-17.44

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PLAN



PROFILE ALONG ℄ CONSTRUCTION CLEVELAND AVE

EXISTING BRIDGE (TBR) NOT SHOWN FOR CLARITY

LEGEND

- ◊◊ - MINIMUM HORIZONTAL CLEARANCE: 2'-4" MIN PROVIDED (2'-0" REQUIRED)
- ◊◊◊ - MINIMUM HORIZONTAL CLEARANCE: 8'-11" MIN PROVIDED (8'-0" REQUIRED)
- ΔΔ - MINIMUM VERTICAL CLEARANCE: 16'-0" PROVIDED (15'-6" REQUIRED)
- ΔΔΔ - EXISTING MINIMUM VERTICAL CLEARANCE: 14'-8"±
- - BORING LOCATION

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2026 ADT =	12,000	2026 ADTT =	360
2046 ADT =	11,500	2046 ADTT =	345
DIRECTIONAL DISTRIBUTION =	51.4%		

BENCHMARK DATA

BM #1 STA.	63+73.90,	ELEV.	819.56,	OFFSET	23.47,	LT
BM #2 STA.	63+78.59,	ELEV.	819.01,	OFFSET	30.26,	LT

EXISTING STRUCTURE

TYPE: 2 SPAN CONTINUOUS HAUNCHED STEEL PLATE GIRDER (ASTM A7 & A36) W/ NON-COMPOSITE REINFORCED CONCRETE DECK SUPPORTED ON REINFORCED CONCRETE ABUTMENTS & MULTIPLE PIER COLUMNS W/ SPREAD FOUNDATIONS

SPANS: 128'-5¼"± - 128'-5¼"± C/C BEARINGS

ROADWAY: 40'-0"± TOE-TO-TOE CURB WITH 6'-0"± SIDEWALK EACH SIDE

LOADING: CF400 (57)

SKEW: 56°03'13"±

WEARING SURFACE: 3"± CONCRETE OVERLAY

APPROACH SLABS: 25'-0"± LONG (AS-1-54 & TYPE 2B CURBS)

ALIGNMENT: TANGENT

CROWN: NORMAL

STRUCTURE FILE NUMBER: 2500094

DATE BUILT: 1961 (ORIGINAL) / 1966 (REHAB)

DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: 2 SPAN CONTINUOUS STEEL PLATE GIRDER (ASTM A709 50W) W/ COMPOSITE REINFORCED CONCRETE DECK SUPPORTED ON TANGENT DRILLED SHAFT ABUTMENT WALLS, AND CAP & COLUMN PIER ON DRILLED SHAFTS

SPANS: 146'-0" - 150'-9" C/C BEARINGS

ROADWAY: 48'-0" FACE/FACE CURB WITH SIDEWALKS (7'-0" LT & 8'-2" RT)

LOADING: HL93 AND 0.060 KSF FUTURE WEARING SURFACE

SKEW: 56°03'13" LF

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG W/ TYPE A INSTALLATION (AS-1-15, AS-2-15)

ALIGNMENT: TANGENT

CROWN: NORMAL

DECK AREA: 19,907 SF

COORDINATES: LATITUDE N 39° 59' 23.16"

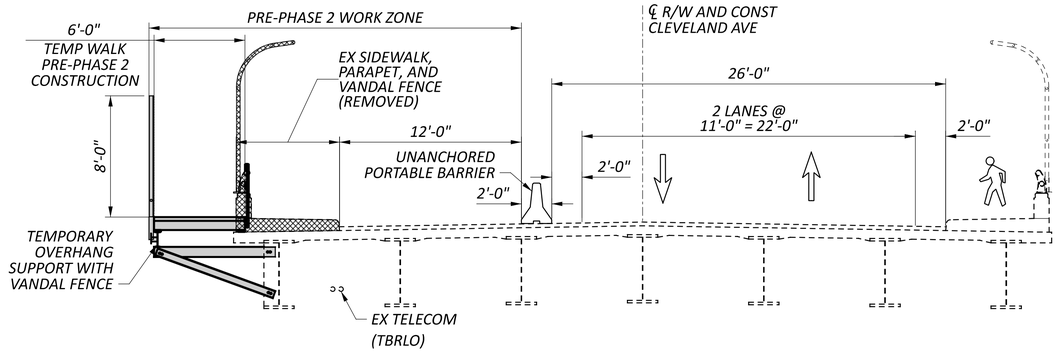
LONGITUDE W 82° 59' 09.09"

SITE PLAN
BRIDGE NO. FRA-0003-17.425
CLEVELAND AVENUE OVER IR 71

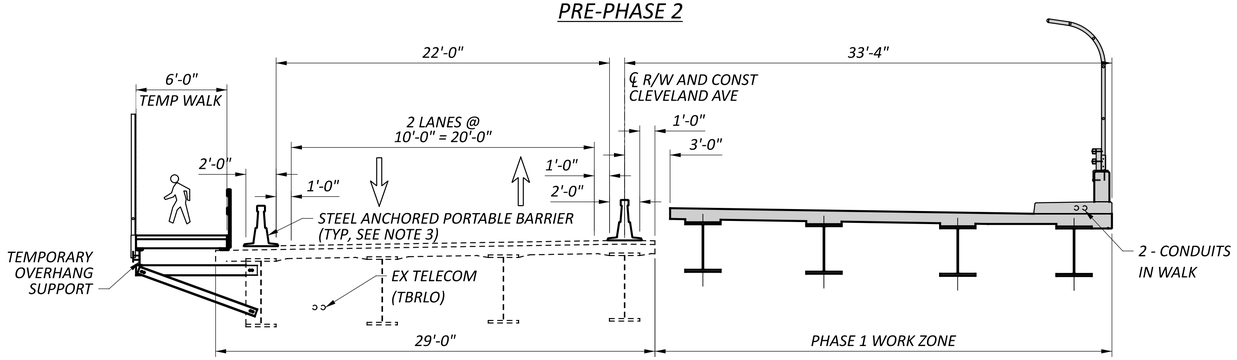
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DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	1
TOTAL	10
SHEET	P.105
TOTAL	130

FRA-3-17.44

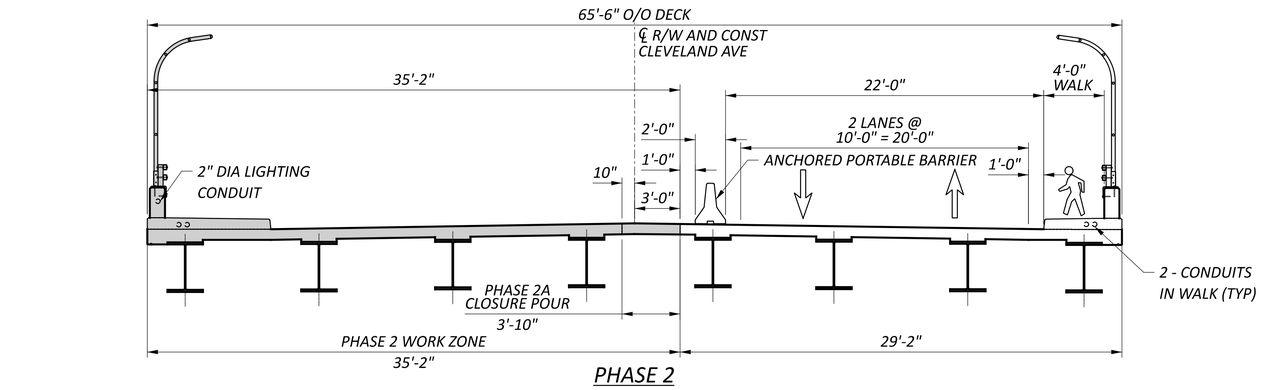
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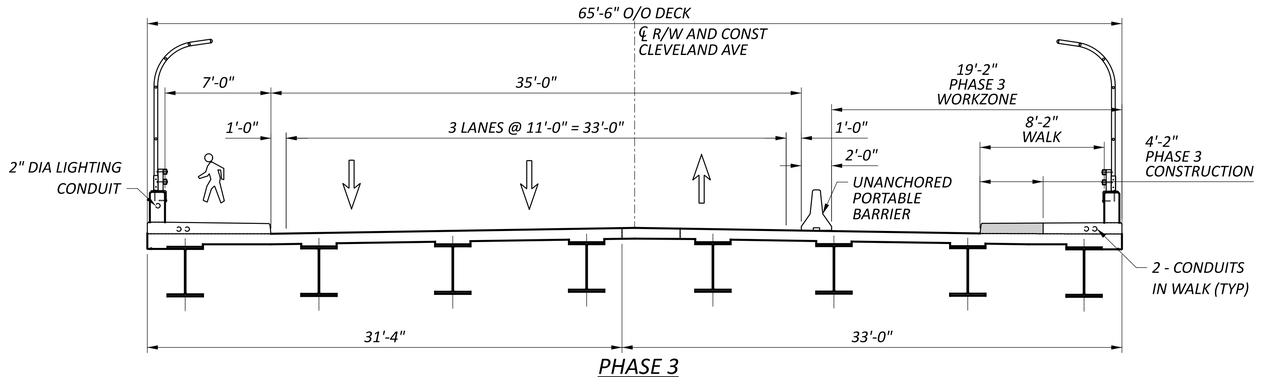
PRE-PHASE 2



PHASE 1



PHASE 2



PHASE 3

SEQUENCE OF CONSTRUCTION

PRE-PHASE 2

1. INSTALL UNANCHORED PORTABLE BARRIER ON THE SOUTHBOUND SIDE OF THE EXISTING STRUCTURE.
2. REMOVE EXISTING SIDEWALK AND PARAPET ON LEFT SIDE.
3. INSTALL TEMPORARY OVERHANG STRUCTURE ON LEFT SIDE.
4. REMOVE PORTABLE BARRIERS. INCLUDE WITH ITEM 614, MAINTENANCE OF TRAFFIC, AS PER PLAN.

PHASE 1

1. INSTALL ANCHORED PORTABLE STEEL BARRIERS AND MAINTAIN TRAFFIC PER THE MAINTENANCE OF TRAFFIC PLANS.
2. REMOVE NORTHBOUND PORTIONS OF EXISTING STRUCTURE TO THE PHASE 1 REMOVAL LIMITS.
3. INSTALL TEMPORARY SHORING.
4. CONSTRUCT PROPOSED BRIDGE COMPONENTS TO THE PHASE 1 CONSTRUCTION LIMITS.
7. REMOVE PORTABLE BARRIERS. INCLUDE WITH ITEM 614, MAINTENANCE OF TRAFFIC, AS PER PLAN.

PHASE 2

1. INSTALL ANCHORED PORTABLE BARRIER ON THE PARTIALLY CONSTRUCTED STRUCTURE AND MAINTAIN TRAFFIC PER THE MAINTENANCE OF TRAFFIC PLANS.
2. REMOVE REMAINING PORTIONS OF EXISTING STRUCTURE.
3. INSTALL TEMPORARY SHORING.
4. CONSTRUCT PROPOSED BRIDGE COMPONENTS TO THE PHASE 2 CONSTRUCTION LIMITS.
5. REMOVE PORTABLE BARRIERS. INCLUDE WITH ITEM 614, MAINTENANCE OF TRAFFIC AS PER PLAN.

PHASE 3

1. INSTALL UNANCHORED PORTABLE BARRIER ON THE NORTHBOUND SIDE OF THE CONSTRUCTED STRUCTURE AND MAINTAIN TRAFFIC PER THE MAINTENANCE OF TRAFFIC PLANS.
2. CONSTRUCT REMAINING PORTION OF RIGHT SIDEWALK.
3. REMOVE PORTABLE BARRIERS. INCLUDE WITH ITEM 614, MAINTENANCE OF TRAFFIC AS PER PLAN.

NOTES

1. FOR PORTABLE CONCRETE BARRIER REFER TO ODOT STANDARD DRAWING PCB-91, OR ODOT STANDARD DRAWING RM-4.2. ANCHORED PCB-91 BARRIER SEGMENTS SHALL BE FASTENED USING 1" DIAMETER HIGH STRENGTH BOLTS (2 ANCHORS PER SEGMENT), OR ALTERNATIVELY RM-4.2 BARRIER SEGMENTS SHALL BE ANCHORED AS DETAILED IN THE ODOT STANDARD DRAWING.
2. PORTABLE CONCRETE BARRIER SHALL BE INCLUDED WITH THE MAINTENANCE OF TRAFFIC PLAN FOR PAYMENT.
3. ANCHORED STEEL BARRIER SHALL BE NCHRP 350 COMPLIANT AND AN APPROVED ODOT ALTERNATE TO THE STANDARD PORTABLE CONCRETE BARRIER WITH A MAXIMUM WIDTH OF 28" AND A MAXIMUM UNIT LOAD OF 65 POUNDS PER FOOT.
4. INSTALL FENCING FOR EACH CONSTRUCTION PHASE PRIOR TO OPENING THAT PHASE TO VEHICULAR AND/OR PEDESTRIAN TRAFFIC.

PHASED CONSTRUCTION SEQUENCE
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

SFN 2500095
DESIGN AGENCY EMH&T
DESIGNER SJS | CHECKER RMW
REVIEWER CAS 06/12/26
PROJECT ID 120607
SUBSET 2 | TOTAL 10
SHEET P.106 | TOTAL 130

FRA-3-17.44

MODEL: Sequence of Construction PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:25:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sseeley@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

- EXISTING BRIDGE
- PERMANENT BRIDGE
- TEMPORARY OVERHANG

TEMP DOP ELEC RELOCATION

6'-0" PROP TEMP WALK

PRE-PHASE CONSTRUCTION

6'-0" EX WALK, PARAPET, AND FENCE (TBR)

EX COC 16" WATERMAIN (PORTIONS TBRL)

PROP 16" WM

UNANCHORED PCB

℄ R/W AND CONST CLEVELAND AVE

CLEVELAND AVE

N38°13'00"E

IR-71 SB

IR-71 NB

LEONA AVE

CAMDEN AVE

TEMP DOP ELEC RELOCATION

PLAN - PRE-PHASE 2

PRE-PHASE 2 CONSTRUCTION DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

SFN	2500095
DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	3
TOTAL	10
SHEET	P.107
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R003 - Prephase [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:51:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sseeley@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

- EXISTING BRIDGE
- PERMANENT BRIDGE
- TEMPORARY OVERHANG

TEMP DOP ELEC RELOCATION

EX COC 16" WATERMAIN (PORTIONS TBRL)

PROP 16" WM

END P1 FWD ABUTMENT TEMP SHORING

BEGIN REAR ABUT TEMP SOLDIER PILE WALL

END REAR ABUT TEMP SOLDIER PILE WALL

END P1 PIER TEMP SHORING

℄ R/W AND CONST CLEVELAND AVE

END P1 PIER TEMP SHORING

TEMP EDGE OF EX SLAB (PHASE 1)

BEGIN FWD ABUT TEMP SHORING

CLEVELAND AVE

N38° 13' 00" E

END P1 REAR ABUTMENT TEMP SHORING

TEMP SHORING AT PHASE LINE

BEGIN P1 PIER TEMP SHORING

BEGIN P1 FWD ABUTMENT TEMP SHORING

TEMP SHORING AT PHASE LINE

4'-0" TANGENT DRILLED SHAFTS (TYP)

BEGIN P1 REAR ABUTMENT TEMP SHORING

BEGIN P1 PIER TEMP SHORING

PHASE 1 CONSTRUCTION

IR-71 SB

IR-71 NB

LEONA AVE

CAMDEN AVE

BEGIN P1 FWD ABUTMENT TEMP SHORING

TEMP DOP ELEC RELOCATION

PLAN - PHASE 1

PHASE 1 CONSTRUCTION DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

SFN	2500095
DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	4
TOTAL	10
SHEET	P.108
TOTAL	130

FRA-3-17.44

MODEL: CLRWX_R003 - Phase 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:30:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sseeley@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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LEGEND

- EXISTING BRIDGE
- PERMANENT BRIDGE
- TEMPORARY OVERHANG

END REAR ABUTMENT TEMP SHORING

TEMP DOP ELEC RELOCATION

BEGIN REAR ABUTMENT TEMP SHORING

END REAR ABUT TEMP SHORING

℄ R/W AND CONST CLEVELAND AVE

END P2 PIER TEMP SHORING

END P2 PIER TEMP SHORING

PHASE 2 CONSTRUCTION

EX COC 16" WATERMAIN (PORTIONS TBRL)

PROP 16" WM

END FWD ABUTMENT TEMP SHORING

END TEMP SOLDIER PILE WALL

BEGIN TEMP SOLDIER PILE WALL

BEGIN FWD ABUTMENT TEMP SHORING

CLEVELAND AVE

63 64 65 66 67 68

BEGIN REAR ABUT TEMP SHORING

BEGIN P2 PIER TEMP SHORING

BEGIN P2 PIER TEMP SHORING

PROP DOP ELEC

IR-71 SB

IR-71 NB

LEONA AVE

CAMDEN AVE

TEMP DOP ELEC RELOCATION

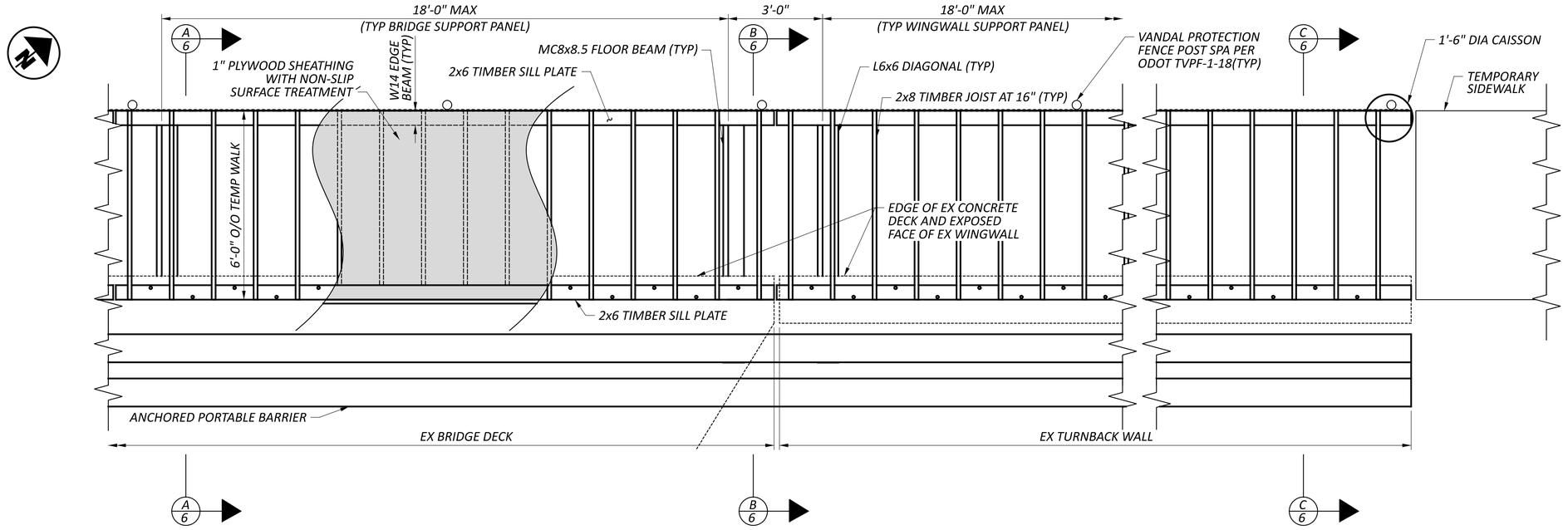
PLAN - PHASE 2

PHASE 2 CONSTRUCTION DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

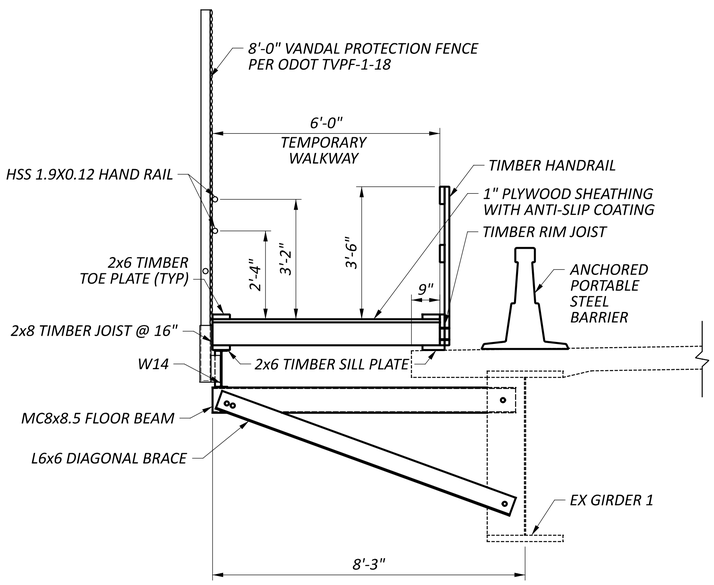
SFN	2500095
DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	5
TOTAL	10
SHEET	P.109
TOTAL	130

FRA-3-17.44

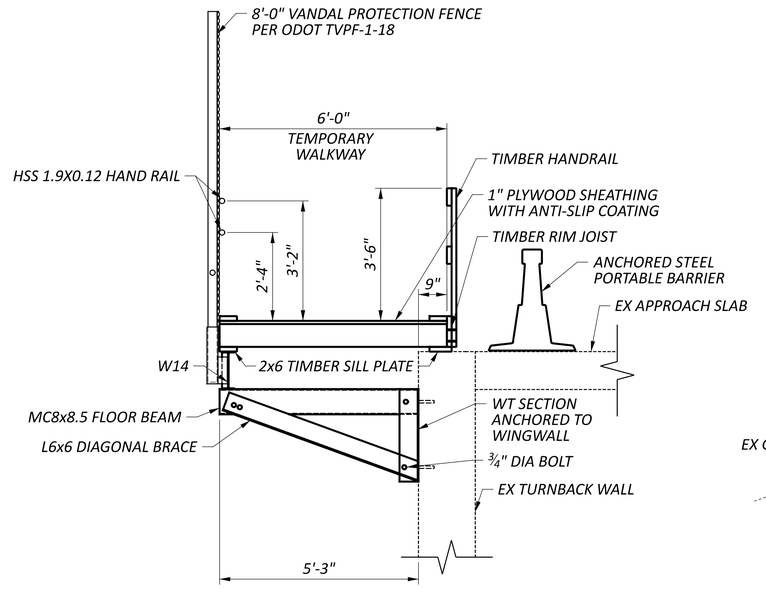
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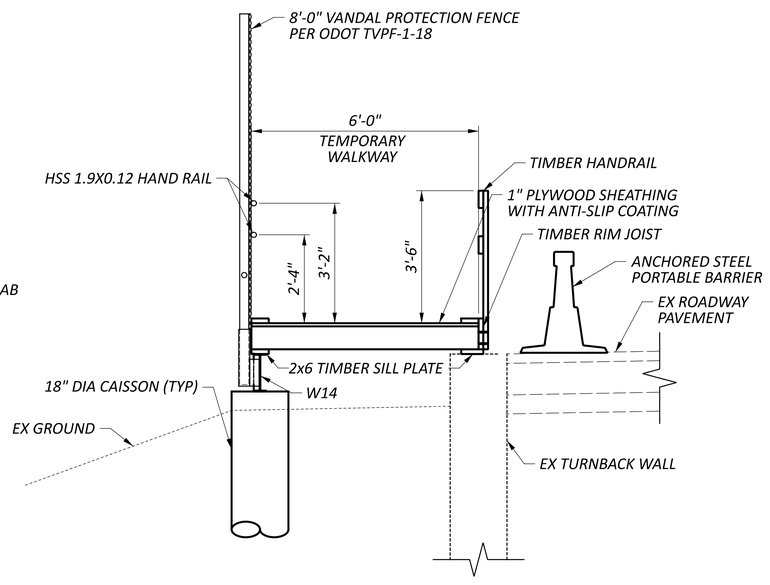
TEMPORARY OVERHANG PLAN
(FORWARD ABUTMENT SHOWN REAR SIMILAR)



A 6 SECTION



B 6 SECTION



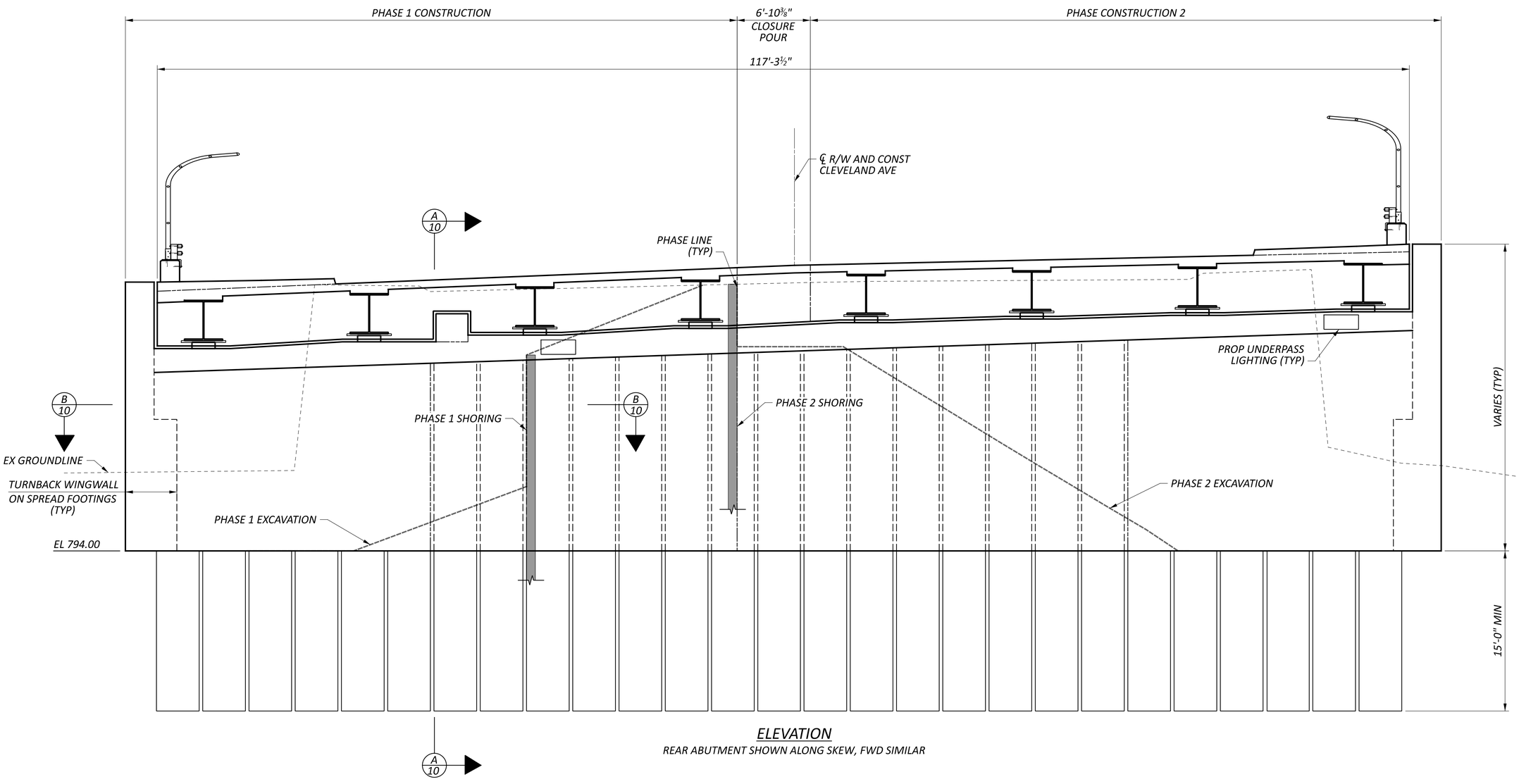
C 6 SECTION

TEMPORARY OVERHANG SIDEWALK DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

SFN	2500095
DESIGN AGENCY	EM H&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	6
TOTAL	10
SHEET	P.110
TOTAL	130

FRA-3-17.44

MODEL: Temp Overhang Detail [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:36:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sseeley@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ELEVATION

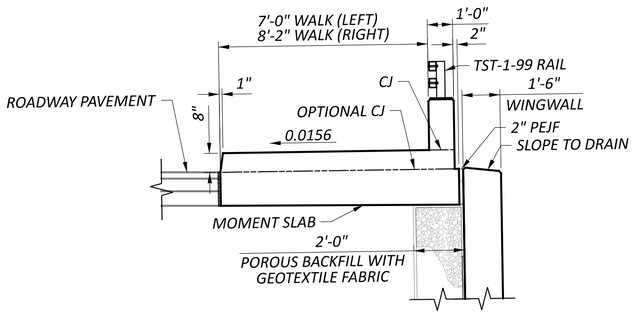
REAR ABUTMENT SHOWN ALONG SKEW, FWD SIMILAR

ABUTMENT DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

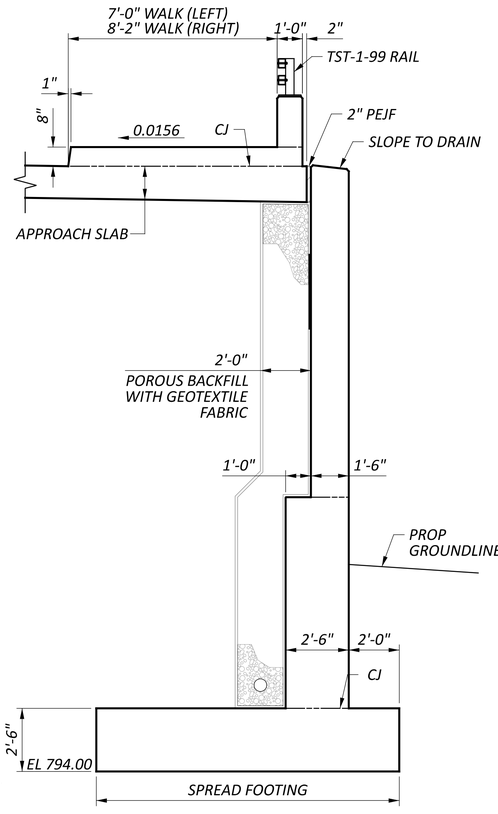
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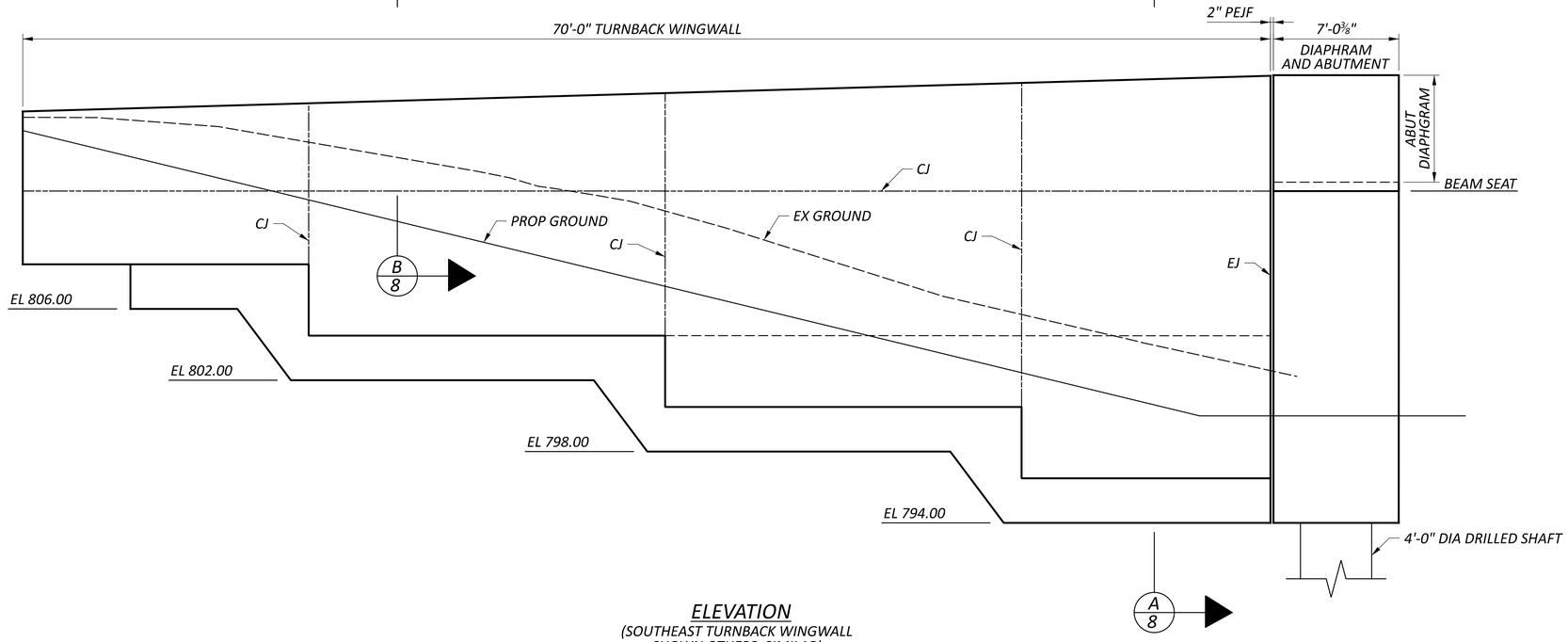
SFN	2500095
DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	7
TOTAL	10
SHEET	P.111
TOTAL	130



SECTION B-B



A/8 SECTION



ELEVATION

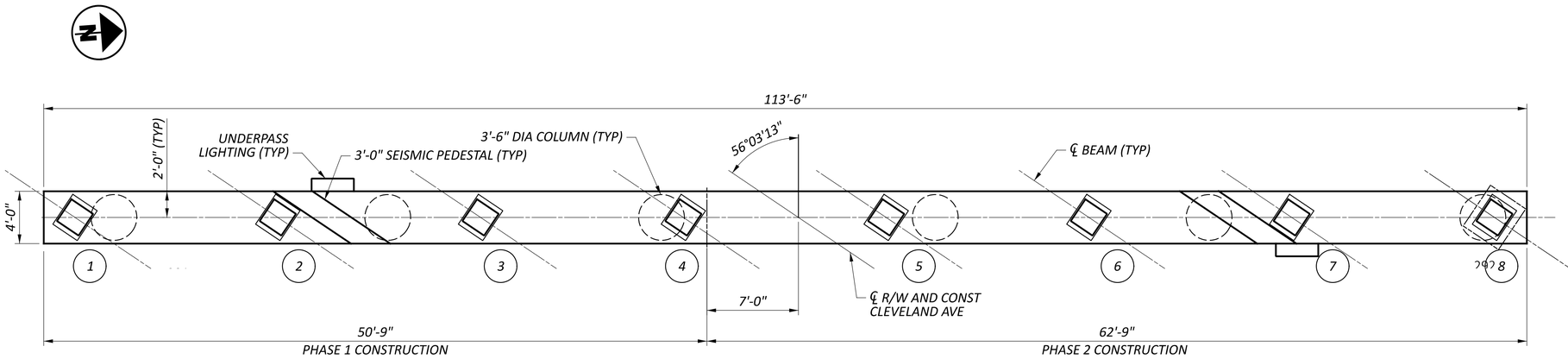
(SOUTHEAST TURNBACK WINGWALL
SHOWN OTHERS, SIMILAR)

RIGHT TURNBACK DETAIL
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

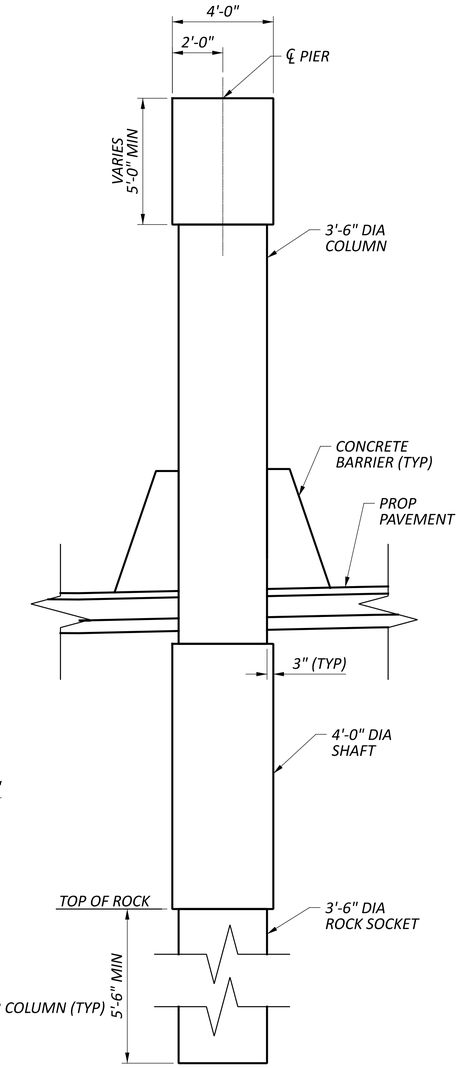
SFN	2500095
DESIGN AGENCY	EMH&T
DESIGNER	SJS
CHECKER	RMW
REVIEWER	CAS 06/12/26
PROJECT ID	120607
SUBSET	8
TOTAL	10
SHEET	P.112
TOTAL	130

FRA-3-17.44

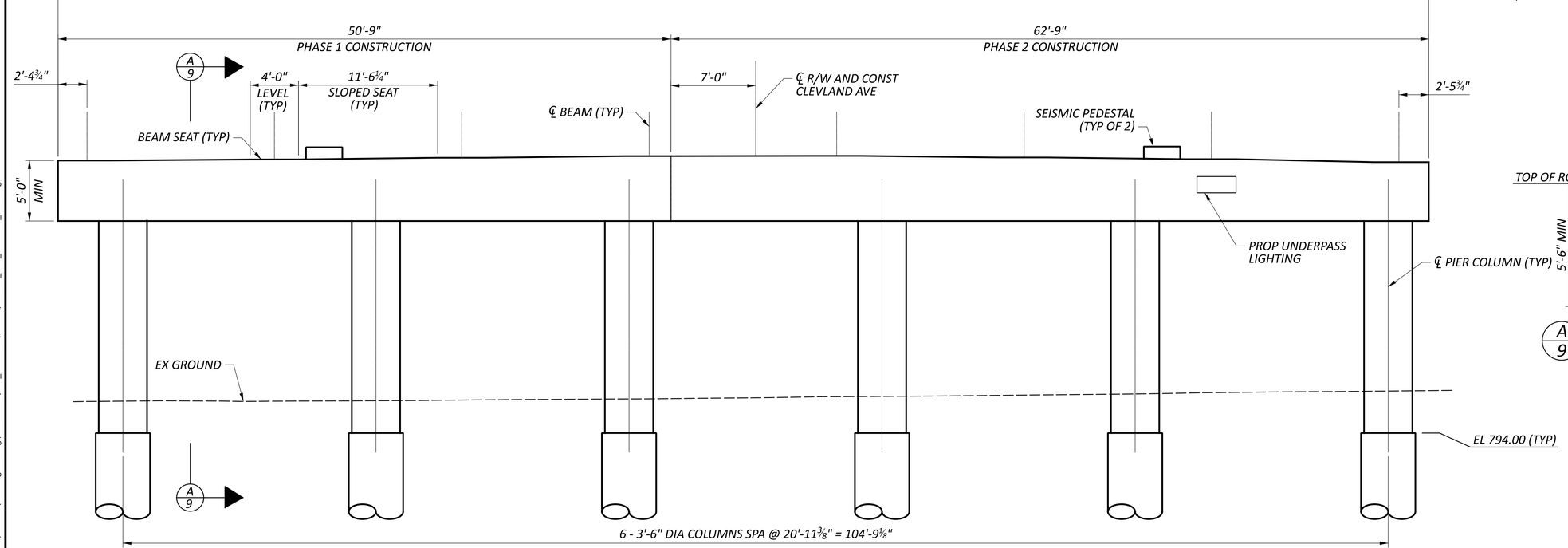
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PLAN



A/9 SECTION
(UNDERPASS LIGHTING NOT SHOWN FOR CLARITY)



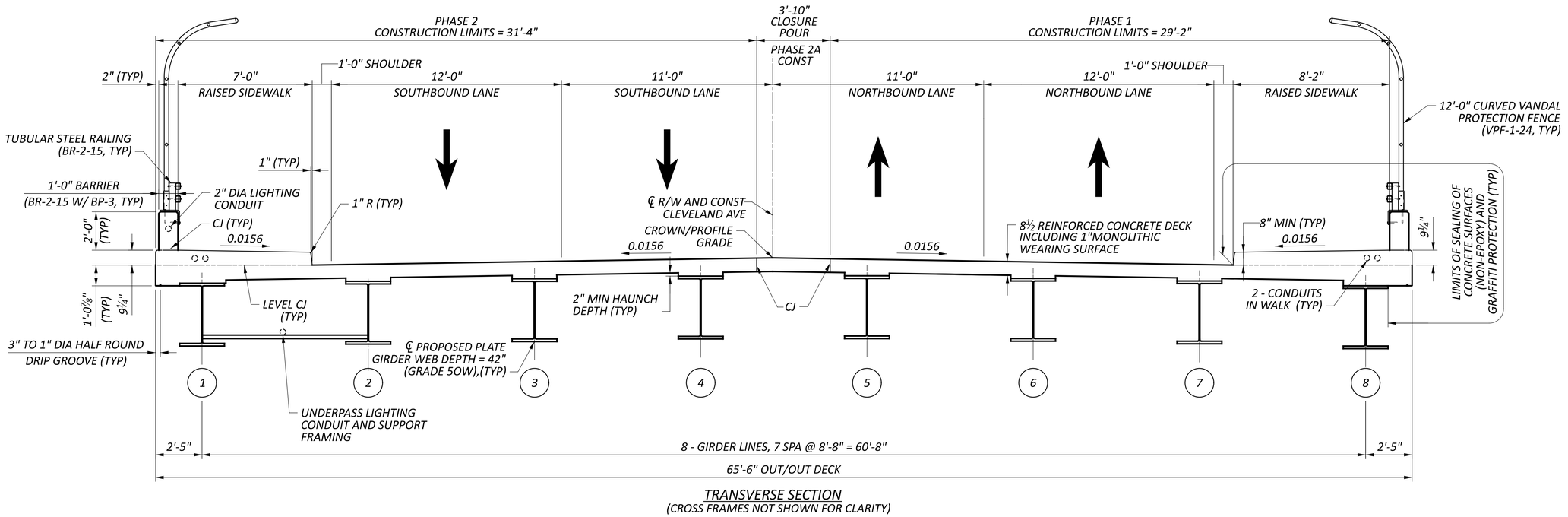
PIER ELEVATION
(MEDIAN BARRIER NOT SHOWN FOR CLARITY)

PIER DETAILS
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR 71

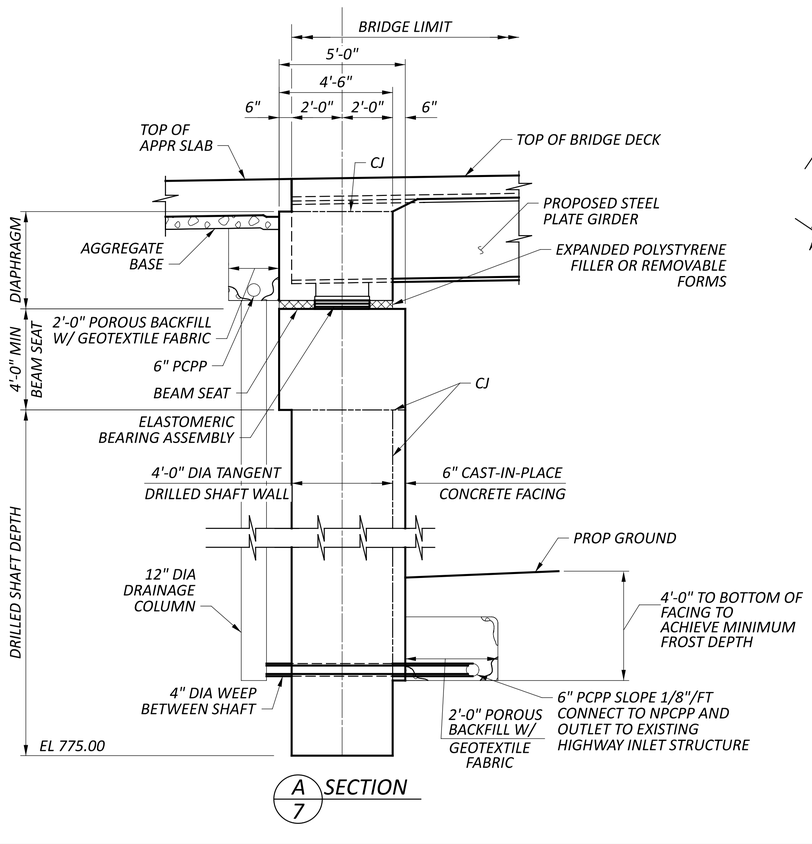
SFN 2500095
DESIGN AGENCY EMH&T
DESIGNER SJS | CHECKER RMW
REVIEWER CAS 06/12/26
PROJECT ID 120607
SUBSET 9 | TOTAL 10
SHEET P.113 | TOTAL 130

FRA-3-17.44

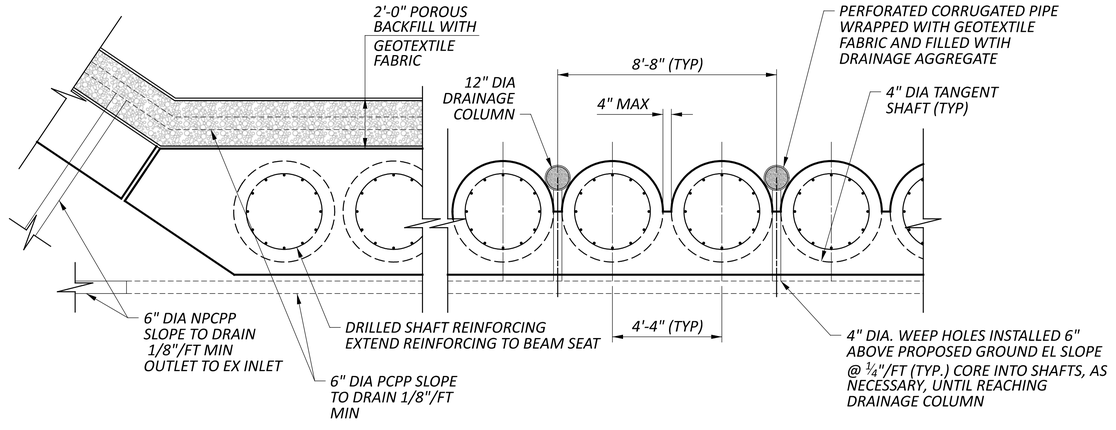
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TRANSVERSE SECTION
(CROSS FRAMES NOT SHOWN FOR CLARITY)



A/7 SECTION



SECTION B-B

ABUTMENT DETAILS AND TRANSVERSE SECTION
BRIDGE NO. FRA-00003-17.425
CLEVELAND AVENUE OVER IR-71

FRA-3-17.44

SFN 2500095
DESIGN AGENCY EMH&T
DESIGNER SJS | CHECKER RMW
REVIEWER CAS 06/12/26
PROJECT ID 120607
SUBSET 10 | TOTAL 10
SHEET P.114 | TOTAL 130

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 11:01:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sseeley@emht.com WORKSPACE: OHDOTCEv02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: Fencing Plan - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/12/2026 TIME: 10:27:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: 120607_BW.tbl USER: sbeal@emht.com WORKSPACE: OHDOTCEx02 WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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PROJECT DESCRIPTION

THE PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING BRIDGE CARRYING CLEVELAND AVENUE OVER IR-71 IN FRANKLIN COUNTY, OHIO.

HISTORIC RECORDS

NO HISTORICAL INFORMATION IS AVAILABLE WITHIN THE PROJECT LIMITS.

GEOLOGY

THE PROJECT SITE IS LOCATED WITHIN THE COLUMBUS LOWLAND TILL PLAINS, A SUBDIVISION OF THE SOUTHERN OHIO LOAMY TILL PLAIN. THIS IS A MODERATELY LOW RELIEF (25 FT) LOWLAND SURROUNDED IN ALL DIRECTIONS BY RELATIVE UPLANDS, HAVING A BROAD REGIONAL SLOPE TOWARD THE SCIOTO VALLEY, CONTAINING MANY LARGER STREAMS. ELEVATIONS OF THE REGION RANGE FROM 600 TO 850 FT ABOVE MEAN SEA LEVEL (AMSL) (950 FT AMSL NEAR POWELL MORAINE). THE GEOLOGY WITHIN THIS REGION IS DESCRIBED AS WISCONSINAN-AGE TILL THAT IS HIGH LIME IN THE WEST TO MEDIUM- LIME IN THE EAST. THE GEOLOGY IS ALSO DESCRIBED AS CONTAINING EXTENSIVE OUTWASH IN SCIOTO VALLEY OVERLYING DEEP DEVONIAN- TO MISSISSIPPIAN- AGE CARBONATE ROCKS, SHALES AND SILTSTONES.

RECONNAISSANCE

A FIELD RECONNAISSANCE VISIT FOR THE PROJECT AREA WAS CONDUCTED ON OCTOBER 29, 2024.

AT THE TIME OF RECONNAISSANCE, PAVEMENT CONDITIONS WITHIN THE PROJECT AREA WERE GENERALLY OBSERVED TO BE IN GOOD CONDITION, WITH MINOR SIGNS OF WEATHERING AND SURFACE WEAR. EFFECTIVELY SEALED CRACKS WERE PREVALENT ALONG IR- 71. AT THE TIME OF RECONNAISSANCE, PAVEMENT CONDITIONS WITHIN THE PROJECT AREA WERE GENERALLY OBSERVED TO BE IN GOOD CONDITION, WITH MINOR SIGNS OF WEATHERING AND SURFACE WEAR. EFFECTIVELY SEALED CRACKS WERE PREVALENT ALONG IR-71.

AT THE TIME OF RECONNAISSANCE, PAVEMENT CONDITIONS ALONG CLEVELAND AVENUE AT THE BRIDGE SECTION WERE OBSERVED TO BE IN FAIR TO GOOD CONDITION. AREAS OF HIGH-SEVERITY PATCHING AND POTHOLES WERE NOTED. LOW- TO MEDIUM- SEVERITY LONGITUDINAL AND TRANSVERSE CRACKING WAS COMMON ALONG THE BRIDGE SURFACE. HIGH-SEVERITY SPALLING WAS OBSERVED AND APPEARED TO COMMON ON THE BRIDGE DECK. ADDITIONALLY, HIGH- SEVERITY EFFLORESCENCE WAS NOTED DURING THE FIELD VISIT. NO EVIDENCE OF GEOTECHNICAL INSTABILITY WAS NOTED AT THE TIME OF RECONNAISSANCE.

SUBSURFACE EXPLORATION

THE PROJECT SUBSURFACE EXPLORATION WAS CONDUCTED BY NEAS BETWEEN DECEMBER 13, 2024, AND FEBRUARY 18, 2025, AND INCLUDED 8 BORINGS DRILLED TO DEPTHS BETWEEN 7.5 FT AND 66.5 FT BELOW GROUND SURFACE.

PROJECT BORINGS WERE DRILLED USING A CME 55TB TRUCK-MOUNTED DRILLING RIG UTILIZING 3.25-INCH (INNER DIAMETER) HOLLOW STEM AUGER. IN GENERAL, SOIL SAMPLES WERE RECOVERED CONTINUOUSLY TO A DEPTH OF 7.5 FEET BELOW GROUND SURFACE, THEN AT 2.5-FOOT INTERVALS TO A DEPTH OF 22.5 FEET, FOLLOWED BY 5-FOOT INTERVALS TO THE TOP OF ROCK, USING AN 18-INCH SPLIT SPOON SAMPLER (AASHTO T- 206 "STANDARD METHOD FOR PENETRATION TEST AND SPLIT BARREL SAMPLING OF SOILS."). STANDARD PENETRATION TESTS (SPT) WERE CONDUCTED USING A CME AUTO HAMMER CALIBRATED TO BE 89% EFFICIENT ON JULY 30, 2024.

EXPLORATION FINDINGS

AT THE BRIDGE OVER IR- 71, NATURAL SOILS WERE ENCOUNTERED BENEATH THE SURFICIAL PAVEMENT SECTION.

THE SUBSURFACE PROFILE AT THE REAR ABUTMENT, AS REVEALED IN BORINGS B-002-0-24 AND B-003-0-24, CONSISTED OF VERY STIFF TO HARD COHESIVE FINE-GRAINED SOILS OVERLYING GRANULAR COARSE-GRAINED MATERIALS. COHESIVE SOILS WERE ENCOUNTERED AT MULTIPLE DEPTHS IN BOTH BORINGS. IN BORING B-002-0-24, THE FIRST COHESIVE LAYER—CLASSIFIED AS SILTY CLAY (A-6b)—WAS OBSERVED DIRECTLY BENEATH THE PAVEMENT AND EXTENDED TO AN ELEVATION OF APPROXIMATELY 806.4 FEET ABOVE MEAN SEA LEVEL (AMSL). A SUBSEQUENT COHESIVE LAYER, CLASSIFIED AS SILT AND CLAY (A-6a), WAS PRESENT FROM APPROXIMATELY 806.4 FEET TO 803.9 FEET AMSL. IN BORING B-003-0-24, THE COHESIVE LAYER—CLASSIFIED AS SILT AND CLAY (A-6a)—WAS ENCOUNTERED BENEATH THE PAVEMENT AND EXTENDED TO AN ELEVATION OF APPROXIMATELY 804.6 FEET AMSL. GRANULAR SOILS WERE ENCOUNTERED BENEATH THE COHESIVE SOILS IN BOTH BORINGS. IN BORING B-002-0-24, A GRANULAR LAYER CLASSIFIED AS STONE FRAGMENTS WITH SAND, SILT, AND CLAY (A- 2- 6) WAS IDENTIFIED BETWEEN ELEVATIONS 803.9 AND 800.9 FEET AMSL, DIRECTLY OVERLYING BEDROCK. IN BORING B-003-0-24, A LAYER CLASSIFIED AS STONE FRAGMENTS WITH SAND AND SILT (A-2-4) WAS ENCOUNTERED BETWEEN ELEVATIONS 804.6 AND 802.1 FEET AMSL, ALSO POSITIONED JUST ABOVE THE BEDROCK SURFACE.

AT THE PROPOSED CENTER PIER, THE SUBSURFACE PROFILE REVEALED IN BORINGS B-004-0-24 AND B-005- 0- 24 CONSISTS OF VERY DENSE GRANULAR MATERIALS UNDERLAIN BY HARD COHESIVE MATERIALS. IN BORING B-004-0-24, GRANULAR SOIL CLASSIFIED AS GRAVEL AND STONE FRAGMENTS (A-1-a) WAS ENCOUNTERED BENEATH THE PAVEMENT AND EXTENDED TO AN ELEVATION OF 778 FT AMSL. IN BORING B- 005- 0- 24, THE INITIAL GRANULAR LAYER ENCOUNTERED BENEATH THE PAVEMENT WAS CLASSIFIED AS COARSE AND FINE SAND (A-3a), EXTENDING TO AN ELEVATION 795.9 FEET AMSL. AN ADDITIONAL GRANULAR LAYER, CLASSIFIED AS GRAVEL WITH SAND AND SILT (A-2-4) WAS OBSERVED FROM APPROXIMATELY 795.9 FEET TO 788.4 FEET AMSL. BENEATH THE GRANULAR SOILS, COHESIVE SOILS WERE ENCOUNTERED IN BORING B-004-0-25, CONSISTING OF SANDY SILT (A-4a) FROM APPROXIMATELY 778 FEET TO 772.0 FEET, UNDERLAIN BY SILT AND CLAY (A-6a) FROM 772.0 FEET TO 769.5 FT AMSL, JUST ABOVE THE BEDROCK. IN BORING B-005-0-24, A CLAY (A-7-6) LAYER WAS ENCOUNTERED AT 788.4 FEET AND EXTENDED TO 785.9 AMSL, FOLLOWED BY SILT AND CLAY (A-6a) LAYER THAT CONTINUED TO 784.6 FEET AMSL, DIRECTLY ABOVE THE BEDROCK.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
	GRAVEL/STONE FRAGMENTS	A-1-a	1	8
	GRAVEL/STONE FRAGMENTS W/ SAND	A-1-b	1	11
	GRAVEL/STONE FRAGMENTS W/ SAND & SILT	A-2-4	1	3
	GRAVEL/STONE FRAGMENTS W/ SAND, SILT & CLAY	A-2-6	-	1
	COARSE AND FINE SAND	A-3a	1	3
	SANDY SILT	A-4a	11	12
	SILT & CLAY	A-6a	9	5
	SILTY CLAY	A-6b	1	3
	CLAY	A-7-6	1	-
		TOTAL	26	46
	SHALE	VISUAL		
X	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		

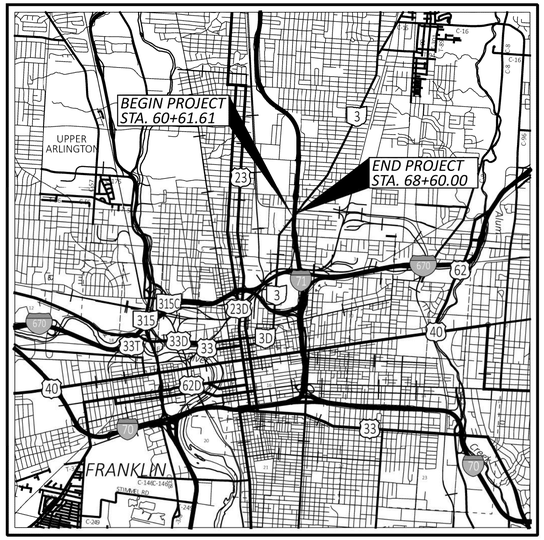
	BORING LOCATION - PLAN VIEW.
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.
WC	INDICATES WATER CONTENT IN PERCENT.
N_{60}	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.
X/D"	NUMBER OF BLOWS 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/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X = NUMBER OF BLOWS FOR FIRST 6 INCHES (UNCORRECTED). Y = NUMBER OF BLOWS FOR SECOND 6 INCHES (UNCORRECTED). Z/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.
TR	INDICATES TOP OF ROCK.
——W	INDICATES FREE WATER ELEVATION.

EXPLORATION FINDINGS (CONT.)

AT THE PROPOSED FORWARD ABUTMENT, THE SUBSURFACE PROFILE REVEALED IN BORINGS B-006-0-24 AND B-007-0-24 CONSISTS OF VERY STIFF TO HARD COHESIVE FINE-GRAINED SOILS OVERLYING MEDIUM DENSE TO VERY DENSE GRANULAR SOILS. IN BORING B-006-0-24, SANDY SILT (A-4a) WAS OBSERVED DIRECTLY BENEATH THE PAVEMENT AND EXTENDED TO APPROXIMATELY 796.7 FEET AMSL, WITH ADDITIONAL LAYERS PRESENT BETWEEN 792.9 AND 787.9 FEET AMSL. IN BORING B-007-0-24, SANDY SILT (A- 4A) WAS OBSERVED DIRECTLY BENEATH THE PAVEMENT AND EXTENDED TO AN ELEVATION OF APPROXIMATELY 801.3 FEET AMSL, WITH ADDITIONAL LAYERS IDENTIFIED BETWEEN 798.8 AND 796.3 FEET, AND BETWEEN 792.8 FEET AND 787.8 FEET AMSL. THE COHESIVE FINE-GRAINED SOILS ARE INTERSPERSED WITH LAYERS OF VERY DENSE COARSE AND FINE SAND (A-3a). IN BORING B-006-0-24, COARSE AND FINE SAND (A-3a) WAS ENCOUNTERED APPROXIMATELY AT 796.7 FEET AND EXTENDS TO 792.9 FEET AMSL. IN BORING B-007-0-24, COARSE AND FINE SAND (A-3a) WAS ENCOUNTERED APPROXIMATELY AT 801.3 FEET AND EXTENDS TO 798.8 FEET AMSL. ADDITIONAL LAYER WAS OBSERVED AT AN ELEVATION OF 796.3 FEET AND EXTENDS TO 792.8 FEET AMSL. BENEATH THE COHESIVE SOILS, GRANULAR SOILS WERE ENCOUNTERED IN B-006-0-24 FROM APPROXIMATELY 787.9 FEET TO 756.2 FEET AMSL, DIRECTLY ABOVE THE TOP OF ROCK. THE GRANULAR SOILS CONSIST OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) BETWEEN 787.9 FEET AND 767.9 FEET AND AGAIN FROM 762.9 TO 756.2 FT AMSL, WITH AN INTERVENING LAYER OF STONE FRAGMENTS (A-1-a) FROM 767.9 FT TO 762.9 FEET AMSL. IN BORING B- 007- 0- 24, A CONTINUOUS LAYER OF STONE FRAGMENTS WITH SAND (A-1-b) WAS ENCOUNTERED AT 787.8 FEET AMSL AND EXTENDS TO THE END OF BORING (EOD).

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JANUARY 2026.



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	

INDEX OF SHEETS

SUMMARY OF SOIL TEST DATA, SHEET 2.

LOCATION		PLAN	PROFILE	STRUCTURE INCLUDED	
FROM STA.	TO STA.			BRIDGE NO.	SFN
CLEVELAND AVENUE				FRA-00003-17.425	2500095
60+60	69+00	3	4		
BORING LOGS, ROCK CORE PHOTOS AND ROCK UNC TEST REPORTS, SHEETS 5-15.					

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE GEOTECHNICAL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.

RECON. - XX, 10/29/24
DRILLING - JL, 12/11/24 - 12/20/25
DRAWN - RS, 06/11/26
REVIEWED - CH, 06/11/26

GEOTECHNICAL PROFILE - BRIDGE

DESIGN AGENCY

NEAS
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2800 Corporate Exchange Drive
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Columbus, OH, 43231
(614) 714-0299
www.neasinc.com

DESIGNER RS
REVIEWER CH 06/11/26
PROJECT ID 120607
SUBSET 1 TOTAL 15
SHEET P.116 TOTAL P.130

FRA-3-17.44

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SUMMARY OF SOIL TEST DATA
SR-3

EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-24	01.50	-	03.00	SS-1	21	39	4.5	9	12	17	35	27	29	18	11	14	A-6a (6)	-
STA. 61+81, 11' RT.	03.00	-	04.50	SS-2	12	50	2.5				SAME AS SS-1					17	A-6a (VISUAL)	-
LATITUDE = 39.989313	04.50	-	06.50	ST-3	ST	75	3.5				SAME AS SS-1					17	A-6a (VISUAL)	-
LONGITUDE = -82.986194	06.50	-	08.00	SS-4	18	50	3.25	7	5	29	35	24	31	18	13	18	A-6a (6)	-
B-008-0-24	01.50	-	03.00	SS-1	21	33	-	11	12	14	36	27	29	18	11	12	A-6a (6)	-
STA. 67+91, 11' RT.	03.00	-	04.50	SS-2	30	33	4.5	3	8	15	40	34	29	17	12	13	A-6a (9)	-
LATITUDE = 39.990628	04.50	-	06.00	SS-3	24	61	4.5	26	13	16	29	16	25	17	8	12	A-4a (2)	-
LONGITUDE = -82.984846	06.00	-	07.50	SS-4	33	28	-				SAME AS SS-3					11	A-4a (VISUAL)	-

GEOTECHNICAL PROFILE -BRIDGE
SUMMARY OF SOIL TEST DATA

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FRA-3-17.44

COMMERCIAL | RELIGIOUS | RESIDENTIAL | RESIDENTIAL | WOODED | TRANSPORTATION | WOODED

Ex R/W

Ex LA-R/W

CONST. LIMITS

℄ CONST. CLEVELAND AVENUE (SR-3)

B-001-0-24

B-002-0-24

B-003-0-24

B-004-0-24

B-005-0-24

B-006-0-24

B-007-0-24

B-008-0-24

61 62 63 64 65 66 67 68 69

4 - LANES (11'-0" INSIDE) & 2 - 12'-0" OUTSIDE) & 2 - 0" SHLDRS

4-LANES @ 12'-0"± = 48'-0"±

4 - LANES @ 12'-0"± & 1 - TAPER LANE @ 12'-0" MAX TO 48'-0" MIN

IR-71 SB

IR-71 NB

TRANSPORTATION | WOODED | COMMERCIAL | WOODED

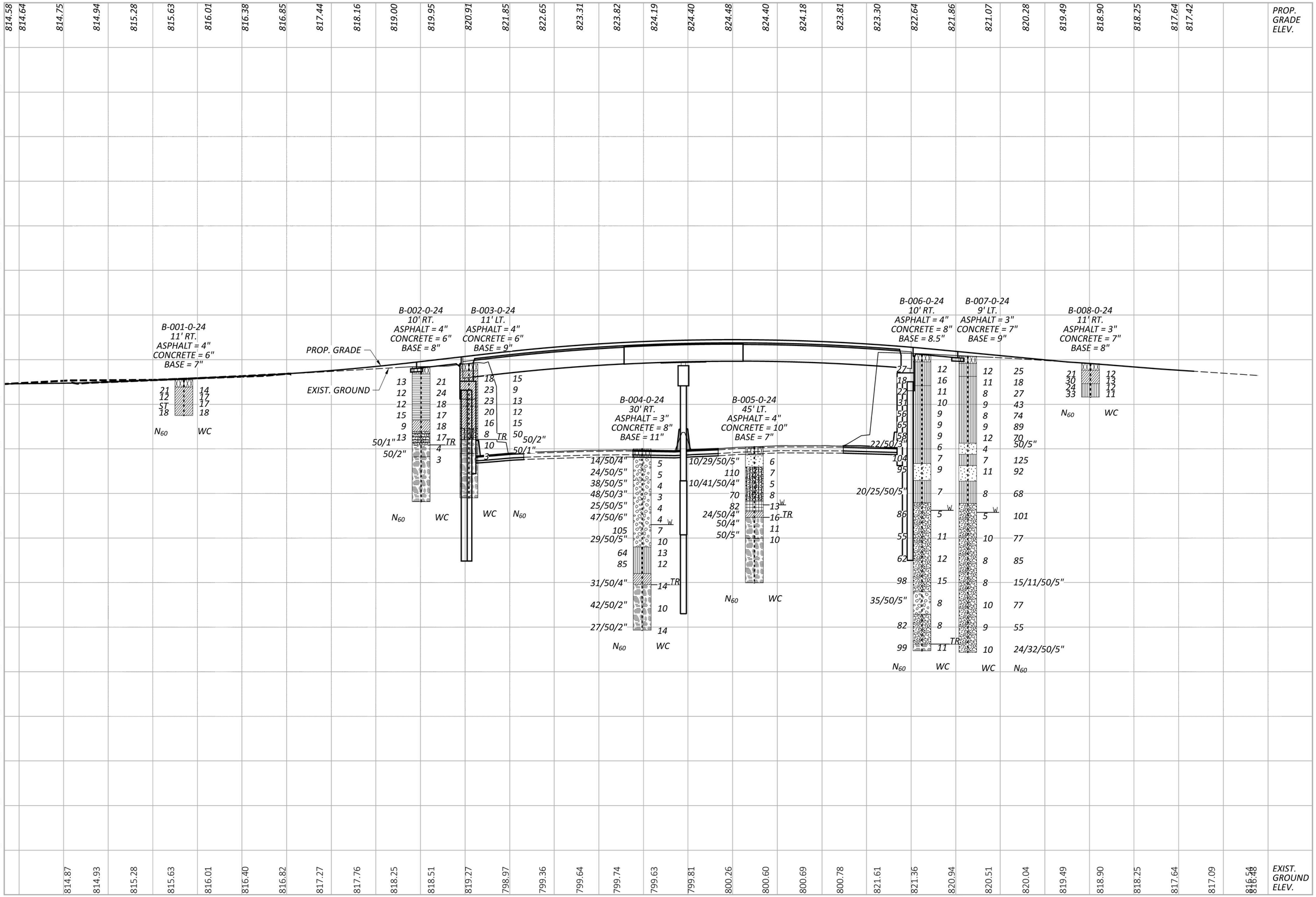
HORIZONTAL SCALE IN FEET
0 15 30 60

GEOTECHNICAL PROFILE -BRIDGE
CLEVELAND AVENUE - STA. 60+60 TO STA. 69+00

DESIGN AGENCY

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www.neasinc.com

DESIGNER	RS
REVIEWER	CH 06/11/26
PROJECT ID	120607
SUBSET / TOTAL	3 / 15
SHEET / TOTAL	P.118 / P.130



FRA-3-17.44

MODEL: 120607_ZF101 PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 5:58:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsofkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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HORIZONTAL SCALE IN FEET
0 15 30 60

GEOTECHNICAL PROFILE -BRIDGE
CLEVELAND AVENUE - STA. 60+60 TO STA. 69+00

DESIGN AGENCY
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DESIGNER RS
REVIEWER CH 06/11/26
PROJECT ID 120607
SUBSET 4 TOTAL 15
SHEET P.119 TOTAL P.130

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PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 12/11/25 END: 12/11/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA / NQ2
SAMPLING METHOD: SPT / NQ2

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 63+40, 10' RT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 818.4 (MSL) EOB: 30.2 ft.
LAT / LONG: 39.989659, -82.985845

EXPLORATION ID B-002-0-24
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)	BACK FILL
4.0" ASPHALT AND 6.0" CONCRETE AND 8.0" BASE (DRILLERS DESCRIPTION)	818.4																	
	816.9																	
HARD, BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, SS-1 CONTAINS NO INTACT SOIL FOR HP READINGS, MOIST TO DAMP			3 4 5	13	28	SS-1	-	3	6	12	44	35	38	19	19	21	A-6b (12)	
			3 3 5	12	78	SS-2	4.25	-	-	-	-	-	-	-	-	24	A-6b (V)	
			4 3 5	12	72	SS-3	4.25	-	-	-	-	-	-	-	-	18	A-6b (V)	
			4 5 5	15	78	SS-4	4.25	-	-	-	-	-	-	-	-	17	A-6b (V)	
	806.4																	
VERY STIFF, BROWN, **SILT AND CLAY**, "AND" SAND, TRACE GRAVEL, MOIST			3 3 3	9	83	SS-5	3.75	10	9	35	24	22	27	16	11	18	A-6a (3)	
	803.9																	
MEDIUM DENSE, BROWN AND DARK GRAY, **STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, MOIST			3 2 7	13	22	SS-6	-	-	-	-	-	-	-	-	-	17	A-2-6 (V)	
	800.9	TR																
SHALE, GRAY, HIGHLY WEATHERED, VERY WEAK TO WEAK, FISSILE.			50/1"	-	100	SS-7	-	-	-	-	-	-	-	-	-	4	Rock (V)	
	798.2		50/2"		100	SS-8										3	Rock (V)	
SHALE, DARK GRAY AND GRAY, SLIGHTLY TO MODERATELY WEATHERED, WEAK TO SLIGHTLY STRONG, THINLY LAMINATED TO LAMINATED, FISSILE, BEDDING DISCONTINUITIES: LOW ANGLE, HIGHLY FRACTURED TO MODERATELY FRACTURED, NARROW TO TIGHT, SLIGHTLY ROUGH, LAMINATED/SHEARED, FAIR SURFACE CONDITION; RQD 9%, REC 90%. @26.2'-26.5'; Qu = 1742 PSI @ 1.5%	788.2	EOB	9		90	NQ2-1											CORE	

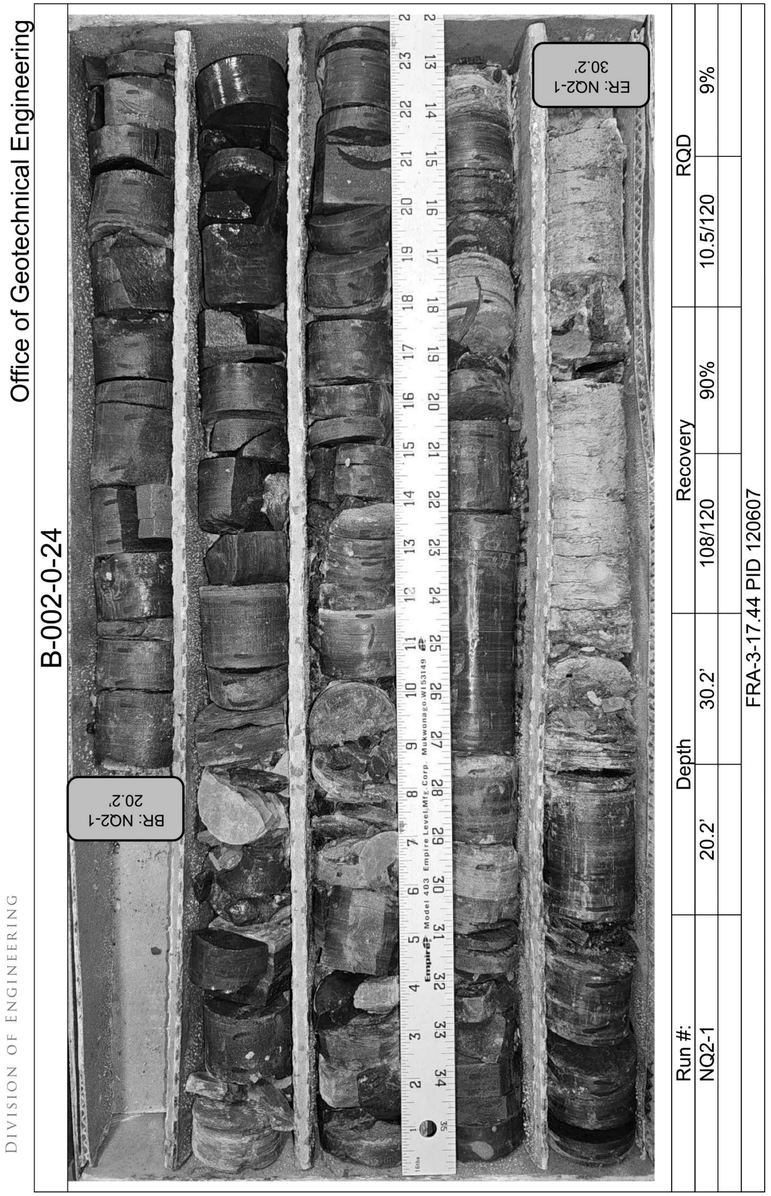
NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 7.0' NORTHEAST.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 2 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 5/27/26 11:04 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.120 / P.130	5 / TOTAL 15	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-002-0-24



B-002-0-24

Run #:	Depth		Recovery		RQD	
NQ2-1	20.2'	30.2'	108/120	90%	10.5/120	9%

FRA-3-17.44 PID 120607

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

Office of Geotechnical Engineering

NEAS
National Engineering & Architectural Services Inc.

5710 Westbourne Avenue
Columbus, OH 43213
614-892-0162

Unconfined Compressive Strength of Rock Core (ASTM D7012 Method C)

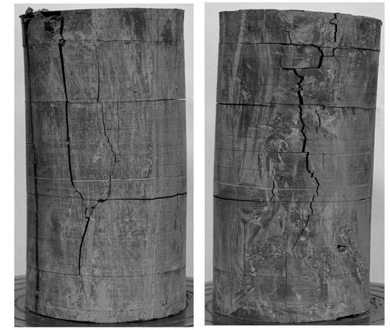
(Project: FRA-3-17.44, Boring Location: B-002-0-24, NQ2-1, Depth: 26.2 - 26.5ft)

Tested Date: 4/9/2025

Specimen Properties

Average Dia., D_{avg} (in):	1.96
Average Height H_{avg} (in):	3.85
Length to Diameter Ratio:	1.97
Area, A (in^2):	3.01
Volume, V (in^3):	11.61
Wet Mass of Specimen (lb):	1.0
Moisture Content (%):	3.6
Dry Mass of Specimen (lb):	1.0
Wet Unit Weight, γ (lb/ft^3):	150.4
Dry Unit Weight, γ_d (lb/ft^3):	145.1

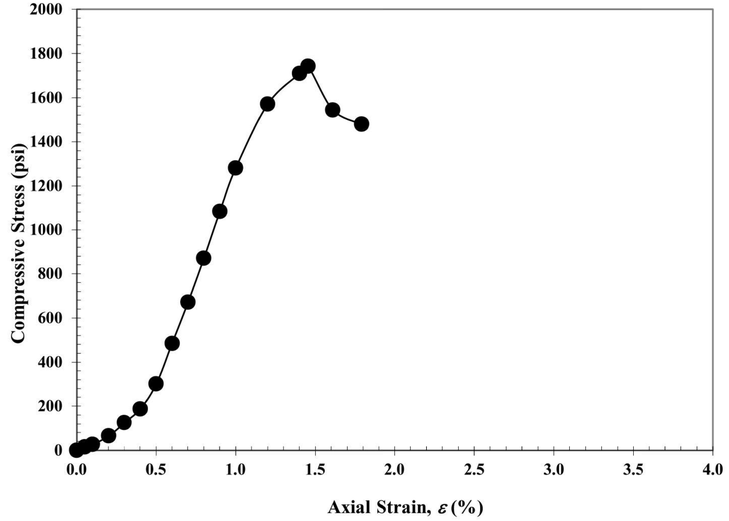
Final Specimen Figure



Results

Unconfined Compressive Strength (psi): **1742** **12** (MPa)

Strain (%): **1.5**



Notes: Shale, gray, slightly weathered, slightly strong, fissile.

Sample trimming procedure does not conform to ASTM D4543 and the results reported may differ from the results obtained from a test specimen that meets the requirements of Practice D4543.

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
ROCK CORE PHOTO AND ROCK UNC TEST REPORT FOR B-002-0-24

DESIGN AGENCY
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DESIGNER RS
REVIEWER CH 06/11/26
PROJECT ID 120607
SUBSET 6 TOTAL 15
SHEET P.121 TOTAL P.130

FRA-3-17.44

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PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 12/13/25 END: 12/13/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA / NQ2
SAMPLING METHOD: SPT / NQ2

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 63+73, 11' LT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 819.1 (MSL) EOB: 30.1 ft.
LAT / LONG: 39.989764, -82.985832

EXPLORATION ID B-003-0-24

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
4.0" ASPHALT AND 6.0" CONCRETE AND 9.0" BASE (DRILLERS DESCRIPTION)	819.1																	
	817.5																	
VERY STIFF TO HARD, BROWN AND BROWNISH GRAY, **SILT AND CLAY**, SOME SAND, TRACE GRAVEL, DAMP TO MOIST		1																
		2																
		3	7 5 5	15	61	SS-1	4.50	1	6	19	44	30	31	19	12	18	A-6a (9)	
		4																
		5																
		6	4 3 3	9	50	SS-2	2.75	-	-	-	-	-	-	-	-	23	A-6a (V)	
		7																
		8	4 4 5	13	83	SS-3	3.00	-	-	-	-	-	-	-	-	23	A-6a (V)	
	809.6	9																
VERY STIFF, BROWN AND ORANGISH BROWN, **SILT AND CLAY**, "AND" SAND, TRACE GRAVEL AND STONE FRAGMENTS, TRACE IRON STAINING, MOIST TO DAMP		10	3 4 4	12	78	SS-4	2.50	10	11	40	19	20	32	17	15	20	A-6a (2)	
		11																
		12																
		13	3 4 6	15	78	SS-5	2.50	-	-	-	-	-	-	-	-	16	A-6a (V)	
	804.6	14																
VERY DENSE, GRAY, **STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, DAMP		15																
		16	12 14 20	50	78	SS-6	-	30	20	19	24	7	20	16	4	8	A-2-4 (0)	
	802.1	17	TR															
SHALE, DARK GRAY, SLIGHTLY WEATHERED, SLIGHTLY STRONG, SILTY.		18	50/2"	-	100	SS-7	-	-	-	-	-	-	-	-	-	10	Rock (V)	
	799.0	19																
SHALE, GRAY AND DARK GRAY, SEVERELY TO MODERATELY WEATHERED, VERY WEAK TO WEAK, THINLY LAMINATED TO LAMINATED, FISSILE, BEDDING DISCONTINUITIES: LOW ANGLE, HIGHLY FRACTURED TO MODERATELY FRACTURED, OPEN TO NARROW, SLIGHTLY ROUGH, LAMINATED/SHEARED, POOR TO FAIR SURFACE CONDITION; RQD 20%, REC 99%.		20	50/1"	-	100	SS-8	-	-	-	-	-	-	-	-	-	3	Rock (V)	
@25.1'-25.5'; Qu = 30 PSI @ 4.4%		21																
@27.5'-30.1'; SDI Qu = 12.098 MPa		22																
		23																
		24																
		25	20		99	NQ2-1											CORE	
		26																
		27																
		28																
	789.0	29																
		30	EOB															

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 7.0' SOUTHWEST.

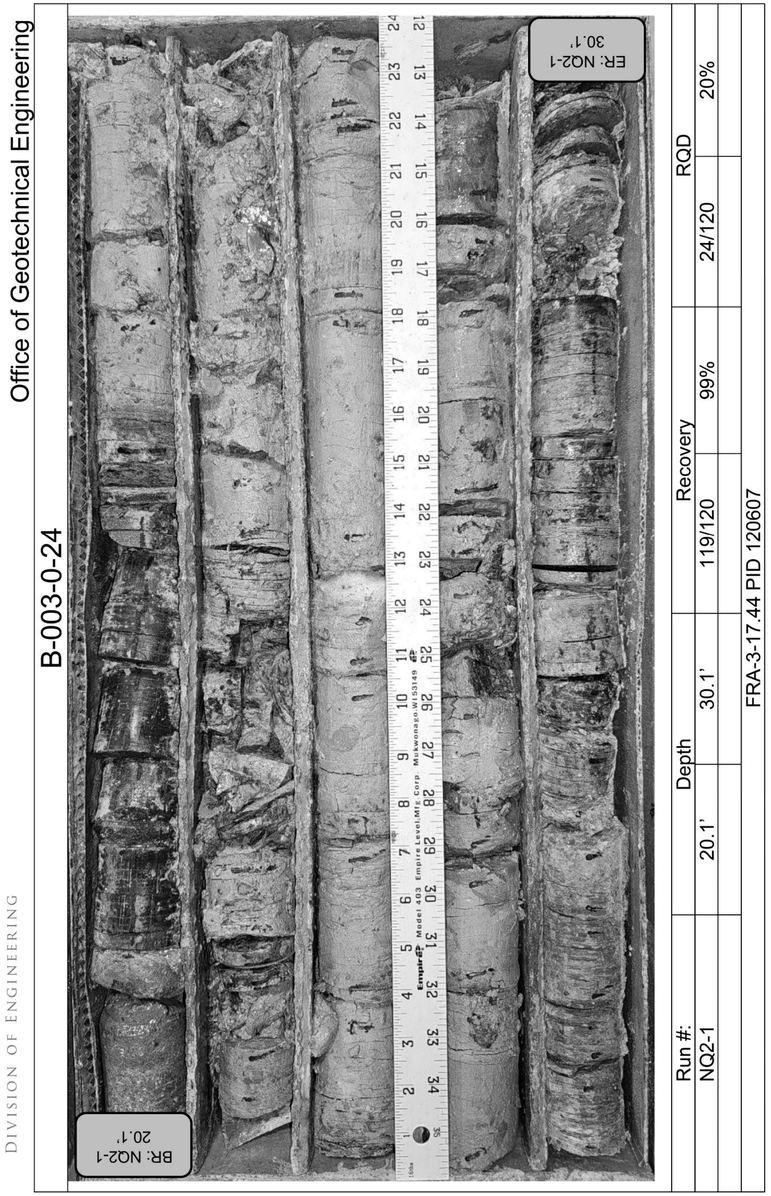
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 2 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17).-OH DOT.GDT -5/27/26 11:04 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

DESIGN AGENCY: NEAS

DESIGNER: RS
REVIEWER: CH 06/11/26
PROJECT ID: 120607
SUBSET: 7 TOTAL: 15
SHEET: P.122 TOTAL: P.130

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-003-0-24



NEAS
National Engineering & Architectural Services Inc.

5710 Westbourne Avenue
Columbus, OH 43213
614-892-0162

Unconfined Compressive Strength of Rock Core (ASTM D7012 Method C)

(Project: FRA-3-17.44, Boring Location: B-003-0-24, NQ2-1, Depth: 25.1 - 25.5ft)

Tested Date: 4/9/2025

Specimen Properties

Average Dia., D_{avg} (in):	2.05
Average Height H_{avg} (in):	4.41
Length to Diameter Ratio:	2.15
Area, A (in^2):	3.29
Volume, V (in^3):	14.54
Wet Mass of Specimen (lb):	1.1
Moisture Content (%):	13.3
Dry Mass of Specimen (lb):	1.0
Wet Unit Weight, γ (lb/ft^3):	134.4
Dry Unit Weight, γ_d (lb/ft^3):	118.6

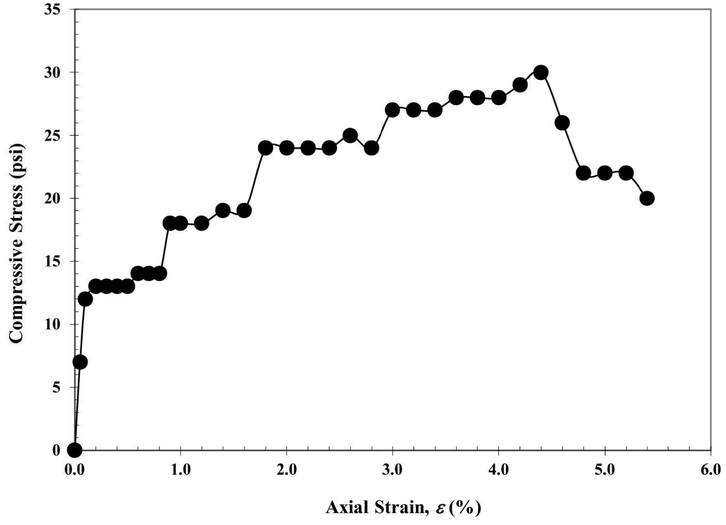
Final Specimen Figure



Results

Unconfined Compressive Strength (psi): **30** **0.2** (MPa)

Strain (%): **4.4**



Notes: Shale, gray, severely weathered, extremely weak.

Sample trimming procedure does not conform to ASTM D4543 and the results reported may differ from the results obtained from a test specimen that meets the requirements of Practice D4543.

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
ROCK CORE PHOTO AND ROCK UNC TEST REPORT FOR B-003-0-24

DESIGN AGENCY
NEAS
National Engineering & Architectural Services Inc.
2800 Corporate Exchange Drive
Suite 240
Columbus, OH, 43231
(614) 714-0299
www.neasinc.com

DESIGNER RS
REVIEWER CH 06/11/26
PROJECT ID 120607
SUBSET 8 TOTAL 15
SHEET P.123 TOTAL P.130

FRA-3-17.44

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:00:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_PenC.tbl USER: rsolfkanc@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
P:\OHDOT_v4\WorkSets\120607\400-Engineering\Geotechnical\Sheets\120607_ZL004.dgn

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:00:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 2/5/25 END: 2/5/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 64+89, 30' RT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 800.0 (MSL) EOB: 40.7 ft.
LAT / LONG: 39.989945, -82.985459

EXPLORATION ID B-004-0-24
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 800.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
3.0" ASPHALT AND 8.0" CONCRETE AND 11.0" BASE (DRILLERS DESCRIPTION)	798.2																	
VERY DENSE, GRAY AND BROWN, **GRAVEL AND STONE FRAGMENTS** SOME SAND, TRACE SILT, TRACE CLAY, CONTAINS CONCRETE AND BRICK FRAGMENTS, DAMP **(FILL)**	793.0		14 50/4"	-	50	SS-1	-	56	22	8	9	5	NP	NP	NP	5	A-1-a (0)	
			24 50/5"	-	64	SS-2	-	-	-	-	-	-	-	-	-	5	A-1-a (V)	
VERY DENSE, GRAY AND BROWN, **GRAVEL AND STONE FRAGMENTS** SOME SAND, TRACE SILT, TRACE CLAY, DAMP TO MOIST			38 50/5"	-	45	SS-3	-	-	-	-	-	-	-	-	-	4	A-1-a (V)	
			48 50/3"	-	89	SS-4	-	-	-	-	-	-	-	-	-	3	A-1-a (V)	
			25 50/5"	-	64	SS-5	-	-	-	-	-	-	-	-	-	4	A-1-a (V)	
			47 50	-	75	SS-6	-	-	-	-	-	-	-	-	-	4	A-1-a (V)	
		W 783.0																
			14 31 40	105	61	SS-7	-	-	-	-	-	-	-	-	-	7	A-1-a (V)	
			29 50/5"	-	18	SS-8	-	-	-	-	-	-	-	-	-	10	A-1-a (V)	
HARD, GRAY, **SANDY SILT** SOME GRAVEL, LITTLE CLAY, CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP	778.0		14 18 25	64	72	SS-9	-	23	26	13	24	14	20	14	6	13	A-4a (1)	
			22 23 34	85	39	SS-10	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
HARD, BLUISH GRAY AND DARK GRAY, **SILT AND CLAY** SOME SAND, LITTLE STONE FRAGMENTS, RESIDUAL ROCK STRUCTURE, DAMP	772.0																	
	769.5	TR	31 50/4"	-	80	SS-11	4.50	18	26	16	22	18	34	21	13	14	A-6a (2)	
SHALE, GRAY AND DARK GRAY, HIGHLY WEATHERED, VERY WEAK TO WEAK, FISSILE.																		
			42 50/2"	-	75	SS-12	-	-	-	-	-	-	-	-	-	10	Rock (V)	
	759.3	EOB	27 50/2"	-	100	SS-13	-	-	-	-	-	-	-	-	-	14	Rock (V)	

NOTES: GROUNDWATER ENCOUNTERED AT 17.0'. HOLE DID NOT CAVE.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 3.0 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17).-OH DOT GDT -5/27/26 11:05 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	SUBSET	PROJECT ID	CH	DESIGNER	DESIGN AGENCY
P.124	9	120607	06/11/26	RS	NEAS
TOTAL P.130	TOTAL 15		REVIEWER		

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-004-0-24

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:01:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 2/17/25 END: 2/17/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA / NQ2
SAMPLING METHOD: SPT / NQ2

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 65+65, 45' LT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 800.4 (MSL) EOB: 30.5 ft.
LAT / LONG: 39.990235, -82.985502

EXPLORATION ID B-005-0-24
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
4.0" ASPHALT AND 10.0" CONCRETE AND 7.0" BASE (DRILLERS DESCRIPTION)	800.4																	
	798.6																	
VERY DENSE, BROWN, **COARSE AND FINE SAND** LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP			10 29 50/5"	-	53	SS-1	-	17	29	30	17	7	NP	NP	NP	6	A-3a (0)	
	795.9																	
VERY DENSE, BROWN AND GRAY, **GRAVEL WITH SAND AND SILT**, TRACE CLAY, DAMP			27 31 43	110	61	SS-2	-	-	-	-	-	-	-	-	-	7	A-2-4 (V)	
			10 41 50/4"	-	75	SS-3	-	-	-	-	-	-	-	-	-	5	A-2-4 (V)	
			16 21 26	70	67	SS-4	-	-	-	-	-	-	-	-	-	8	A-2-4 (V)	
	788.4																	
HARD, DARK BROWN AND GRAY, **CLAY**, SOME SILT, SOME SAND, SOME STONE FRAGMENTS, RESIDUAL ROCK STRUCTURE, CONTAINS IRON STAINING, DAMP		W 787.4	15 21 34	82	61	SS-5	4.50	21	14	12	26	27	43	26	17	13	A-7-6 (7)	
	785.9																	
HARD, DARK BROWNISH GRAY, **SILT AND CLAY**, "AND" SAND, LITTLE STONE FRAGMENTS, RESIDUAL ROCK STRUCTURE, CONTAINS IRON STAINING, CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP	784.6	TR	24 50/4"	-	90	SS-6	-	16	28	17	22	17	36	22	14	16	A-6a (2)	
SHALE, GRAY, SEVERELY WEATHERED, VERY WEAK.			50/4"	-	100	SS-7	-	-	-	-	-	-	-	-	-	11	Rock (V)	
	779.9		50/5"	-	100	SS-8	-	-	-	-	-	-	-	-	-	10	Rock (V)	
SHALE, GRAY AND DARK GRAY, SLIGHTLY TO MODERATELY WEATHERED, WEAK TO MODERATELY STRONG, THINLY LAMINATED TO LAMINATED, FISSILE, BEDDING DISCONTINUITIES: LOW ANGLE, HIGHLY FRACTURED TO MODERATELY FRACTURED, NARROW TO TIGHT, SLIGHTLY ROUGH, LAMINATED/SHEARED, FAIR SURFACE CONDITION; RQD 40%, REC 96%. @25.1'-25.5'; Qu = 4822 PSI @ 1.3%			40		96	NQ2-1											CORE	
	769.9	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 13.0'. HOLE DID NOT CAVE.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 2.0 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 5/27/26 11:05 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.125 / P.130	10 / 15 TOTAL	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-005-0-24

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:01:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_PenC.tbl USER: rsolkanc@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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FRA-3-17.44

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

Office of Geotechnical Engineering

B-005-0-24



Run #:	Depth	Recovery		RQD	
		115/120	96%	48/120	40%
NQ2-1	20.5'				
	30.5'				

FRA-3-17.44 PID 120607

NEAS
National Engineering & Architectural Services Inc.

5710 Westbourne Avenue
Columbus, OH 43213
614-892-0162

Unconfined Compressive Strength of Rock Core (ASTM D7012 Method C)

(Project: FRA-3-17.44, Boring Location: B-005-0-24, NQ2-1, Depth: 25.1 - 25.5ft)

Tested Date: 4/9/2025

Specimen Properties

Average Dia., D_{avg} (in):	1.98
Average Height H_{avg} (in):	4.25
Length to Diameter Ratio:	2.15
Area, A (in^2):	3.07
Volume, V (in^3):	13.06
Wet Mass of Specimen (lb):	1.1
Moisture Content (%):	3.0
Dry Mass of Specimen (lb):	1.1
Wet Unit Weight, γ (lb/ft^3):	145.9
Dry Unit Weight, γ_d (lb/ft^3):	141.7

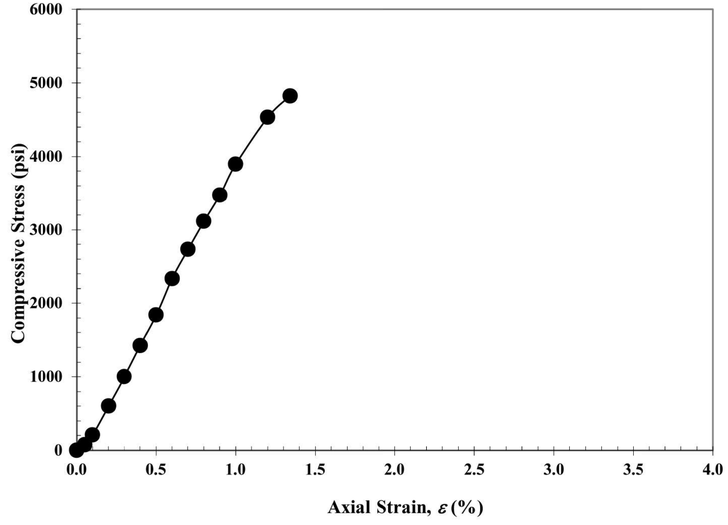
Final Specimen Figure



Results

Unconfined Compressive Strength (psi): **4822** **33** (MPa)

Strain (%): **1.3**



Notes: Shale, dark gray, slightly weathered, moderately strong, fissile.

Sample trimming procedure does not conform to ASTM D4543 and the results reported may differ from the results obtained from a test specimen that meets the requirements of Practice D4543.

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
ROCK CORE PHOTO AND ROCK UNC TEST REPORT FOR B-005-0-24

DESIGN AGENCY
NEAS
National Engineering & Architectural Services Inc.
2800 Corporate Exchange Drive
Suite 240
Columbus, OH, 43231
(614) 714-0299
www.neasinc.com

DESIGNER RS
REVIEWER CH 06/11/26
PROJECT ID 120607
SUBSET 11 TOTAL 15
SHEET P.126 TOTAL P.130

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:02:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
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PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 12/17/25 END: 12/18/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 66+77, 10' RT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 821.2 (MSL) EOB: 66.5 ft.
LAT / LONG: 39.990384, -82.985099

EXPLORATION ID B-006-0-24

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
4.0" ASPHALT AND 8.0" CONCRETE AND 8.5" BASE (DRILLERS DESCRIPTION)	821.2																	
	819.5																	
HARD, BROWN AND ORANGISH BROWN, **SANDY SILT**, LITTLE CLAY, LITTLE GRAVEL, IRON STAINING, DAMP			6 8 10	27	61	SS-1	4.25	15	17	22	30	16	24	16	8	12	A-4a (2)	
			6 5 7	18	39	SS-2	4.50	-	-	-	-	-	-	-	-	16	A-4a (V)	
	814.2																	
HARD, GRAY, **SANDY SILT**, LITTLE TO SOME CLAY, TRACE TO LITTLE GRAVEL, DAMP			6 7 8	22	67	SS-3	4.50	10	12	18	37	23	26	17	9	11	A-4a (5)	
			5 8 13	31	67	SS-4	4.50	-	-	-	-	-	-	-	-	10	A-4a (V)	
			14 18 20	56	61	SS-5	4.50	-	-	-	-	-	-	-	-	9	A-4a (V)	
			14 20 24	65	78	SS-6	4.50	-	-	-	-	-	-	-	-	9	A-4a (V)	
			15 16 23	58	78	SS-7	4.50	7	14	18	42	19	22	16	6	9	A-4a (5)	
			22 50/3"	-	78	SS-8	4.50	-	-	-	-	-	-	-	-	6	A-4a (V)	
			23 30 40	104	83	SS-9	4.50	-	-	-	-	-	-	-	-	7	A-4a (V)	
	796.7																	
VERY DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP			23 24 40	95	89	SS-10	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
	792.9																	
HARD, GRAY, **SANDY SILT**, LITTLE CLAY, LITTLE GRAVEL, DAMP			20 25 50/5"	-	82	SS-11	4.50	15	13	20	34	18	22	14	8	7	A-4a (3)	
	787.9																	
VERY DENSE, BROWN BECOMING GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, DAMP		W 786.2	45 25 33	86	89	SS-12	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	
@40.0'; BECOMES WET			22 15 22	55	78	SS-13	-	36	35	10	13	6	22	19	3	11	A-1-b (0)	
			18 18 24	62	94	SS-14	-	-	-	-	-	-	-	-	-	12	A-1-b (V)	
			20 22 44	98	78	SS-15	-	-	-	-	-	-	-	-	-	15	A-1-b (V)	
	767.9																	
VERY DENSE, BROWN AND DARK GRAY, **STONE FRAGMENTS**, LITTLE SAND, TRACE SILT, TRACE CLAY, DAMP			35 50/5"	-	64	SS-16	-	-	-	-	-	-	-	-	-	8	A-1-a (V)	
	762.9																	
VERY DENSE, BROWN AND GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, DAMP																		

STANDARD ODOT SOIL BORING LOG (11 X 17).CH DOT.GDT - 5/27/26 11:05 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.127 / P.130 (TOTAL)	12 / 15 (TOTAL)	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-006-0-24

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:02:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
P:\OHDOT_v4\WorkSets\120607\400-Engineering\Geotechnical\Sheets\120607_ZL009.dgn

PID: 120607 | SFN: | PROJECT: FRA-3-17.44 | STATION / OFFSET: 66+77, 10' RT. | START: 12/17/25 | END: 12/18/25 | PG 2 OF 2 | B-006-0-24

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
	761.2																	
VERY DENSE, BROWN AND GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**LITTLE SILT, TRACE CLAY, DAMP *(continued)*		61	30 26 29	82	39	SS-17	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	
		62																
		63																
		64																
	756.2	TR																
SHALE, DARK GRAY, MODERATELY WEATHERED, WEAK, FISSILE.		65	28 20 47	99	39	SS-18	-	-	-	-	-	-	-	-	-	11	Rock (V)	
	754.7	66 EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 6.0' NORTHEAST.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 2 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 5/27/26 11:05 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	SUBSET	PROJECT ID	RECEIVER	DESIGNER	DESIGN AGENCY
P.128 / P.130	13 / 15	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-006-0-24 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:03:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
P:\OHDOT_v4\WorkSets\120607\400-Engineering\Geotechnical\Sheets\120607_ZL010.dgn

PROJECT: FRA-3-17.44
TYPE: BRIDGE
PID: 120607 SFN: 2500095
START: 12/19/25 END: 12/20/25

DRILLING FIRM / OPERATOR: NEAS INC. / JL
SAMPLING FIRM / LOGGER: NEAS INC. / JL
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 55TB
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 7/30/24
ENERGY RATIO (%): 89

STATION / OFFSET: 67+08, 9' LT.
ALIGNMENT: CLEVELAND AVENUE
ELEVATION: 820.8 (MSL) EOB: 66.4 ft.
LAT / LONG: 39.990484, -82.985085

EXPLORATION ID B-007-0-24

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
3.0" ASPHALT AND 7.0" CONCRETE AND 9.0" BASE (DRILLERS DESCRIPTION)	820.8																	
	819.2																	
HARD, BROWN, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, CONTAINS IRON STAINING, DAMP			7 8 9	25	72	SS-1	4.50	6	11	20	38	25	24	16	8	12	A-4a (6)	
	816.3																	
HARD, BROWN BECOMING GRAY, **SANDY SILT**, LITTLE TO SOME CLAY, TRACE TO LITTLE GRAVEL, DAMP			5 7 5	18	78	SS-2	4.50	12	18	21	30	19	24	15	9	11	A-4a (3)	
			9 9 9	27	78	SS-3	4.50	-	-	-	-	-	-	-	-	8	A-4a (V)	
@9.5'; BECOMES GRAY			12 14 15	43	72	SS-4	4.50	8	10	14	43	25	24	16	8	9	A-4a (7)	
			7 24 26	74	50	SS-5	4.50	-	-	-	-	-	-	-	-	8	A-4a (V)	
			14 27 33	89	67	SS-6	4.50	-	-	-	-	-	-	-	-	9	A-4a (V)	
			16 17 30	70	83	SS-7	4.50	-	-	-	-	-	-	-	-	12	A-4a (V)	
	801.3																	
VERY DENSE, BROWN, **COARSE AND FINE SAND** LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP			50/5"	-	100	SS-8	-	-	-	-	-	-	-	-	-	4	A-3a (V)	
	798.8																	
HARD, BROWNISH GRAY, **SANDY SILT**, LITTLE CLAY, TRACE GRAVEL, DAMP			31 35 49	125	78	SS-9	4.50	7	12	23	39	19	21	12	9	7	A-4a (5)	
	796.3																	
VERY DENSE, GRAY, **COARSE AND FINE SAND** LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST			26 32 30	92	83	SS-10	-	-	-	-	-	-	-	-	-	11	A-3a (V)	
	792.8																	
HARD, BROWNISH GRAY, **SANDY SILT**, LITTLE CLAY, LITTLE GRAVEL, DAMP			18 19 27	68	89	SS-11	4.50	11	13	22	36	18	22	13	9	8	A-4a (4)	
	787.8																	
VERY DENSE, BROWN BECOMING DARK BROWN AND DARK GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE TO LITTLE SILT, TRACE CLAY, MOIST TO WET		W 785.8	35 28 40	101	83	SS-12	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	
			35 24 28	77	83	SS-13	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	
			30 28 29	85	94	SS-14	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	
			15 11 50/5"	-	65	SS-15	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	
@53.0'; BECOMES DARK BROWN AND DARK GRAY			34 22 30	77	89	SS-16	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 5/27/26 11:05 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.129	P.130	14	15	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-007-0-24

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/11/2026 TIME: 6:03:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: rsoflkancs@neasinc.com WORKSPACE: OHDOT WORKSET: 120607 PRODUCT: OpenRoadsDesigner 24.00.00.205
P:\OHDOT_v4\WorkSets\120607\400-Engineering\Geotechnical\Sheets\120607_ZL011.dgn

PID: 120607 | SFN: | PROJECT: FRA-3-17.44 | STATION / OFFSET: 67+08, 9' LT. | START: 12/19/25 | END: 12/20/25 | PG 2 OF 2 | B-007-0-24

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
VERY DENSE, BROWN BECOMING DARK BROWN AND DARK GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE TO LITTLE SILT, TRACE CLAY, MOIST TO WET *(continued)*	760.8	61	29 19 18	55	72	SS-17	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	
		62																
		63																
		64																
		65																
	754.4	66 EOB	24 32 50/5"	-	59	SS-18	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 8.0' SOUTHEAST.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 2 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 5/27/26 11:05 - X:\1ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\FRA-3-17.44\GINT FILES\FRA-3-17.44_13125.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.130	P.130	15	15	120607	CH 06/11/26	RS	NEAS

GEOTECHNICAL PROFILE -BRIDGE
BRIDGE NO. FRA-00003-17.425 CLEVELAND AVENUE OVER IR-71
BORING LOG FOR B-007-0-24 (CONT.)