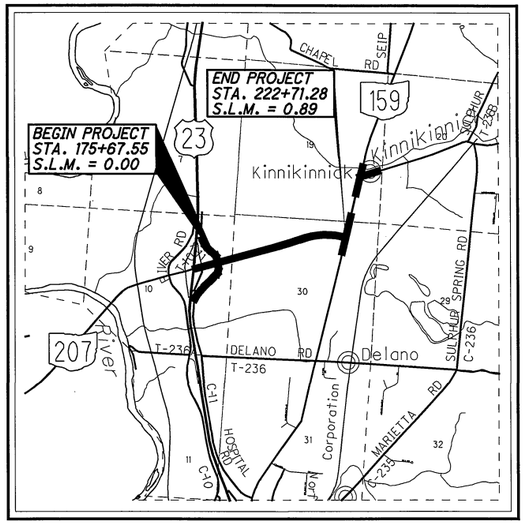


LOCATION MAP

LATITUDE: N 39° 25′ 07″ LONGITUDE: W 82° 57′ 52″

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

FEDERAL ROUTES

STATE ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

DESIGN DESIGNATION

	S.R. 207	S.R. 159	S.R. 180	HOSPITAL RD. (SOUTH)	HOSPITAL RD. (NORTH)
CURRENT ADT (2020)	4690	10660	4830	8970	420
DESIGN YEAR ADT (2040)	7590	13850	6060	17240	470
DESIGN HOURLY VOLUME (2040)	970	1440	730	2220	90
DIRECTIONAL DISTRIBUTION	51%	51%	58%	62%	56%
TRUCKS (24 HOUR B&C)	5%	8%	8%	3%	2%
T_d	5%	8%	7%	3%	7%
DESIGN SPEED	60 MPH	45 MPH	45 MPH	55 MPH	55 MPH
LEGAL SPEED	55 MPH	45 MPH	40 MPH	55 MPH	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
S.R. 207: RURAL MAJOR COLLECTOR
S.R. 159: RURAL MAJOR COLLECTOR
S.R. 180: RURAL MAJOR COLLECTOR
HOSPITAL RD.: RURAL LOCAL ROAD
NHS PROJECT NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
S.R. 207:		
SUPERELEVATION	12/05/18	93,95,97,213
HOSPITAL ROAD:		
HORIZONTAL CURVE RADIUS	12/05/18	2,81,121,123
SUPERELEVATION	12/05/18	2,81,121,123,218,219

PLAN PREPARED BY:
HDR ENGINEERING, INC.
9987 CARVER ROAD, SUITE 200
CINCINNATI, OHIO 45242-5552
513-984-7500

ENGINEERS SEAL:

STATE OF OHIO
AARON LITTMAN
68714
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Aaron Littman
DATE: 5/1/19

ENGINEERS SEAL:

STATE OF OHIO
DIRK W. WILLMS
61883
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Dirk W. Willms
DATE: 5/1/19

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

ROS-207-0.00

GREEN TOWNSHIP

ROSS COUNTY

INDEX OF SHEETS:

TITLE SHEET	1	CROSS SECTIONS - S.R. 180	188-193
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GENERAL NOTES	15-17	INTERSECTION DETAILS	220-228
MAINTENANCE OF TRAFFIC	18-66	INTERSECTION GRADING DETAILS	229-231
GENERAL SUMMARY	67-70	DRIVEWAY PROFILES	232-235
SUBSUMMARIES	71-77	PLAN INSERT SHEETS	236-238
PROJECT SITE PLAN	78	STORM SEWER PROFILES	239
PLAN AND PROFILE - C.R. 207A/S.R. 207	79-98	CULVERT DETAILS	240-246
PLAN AND PROFILE - S.R. 159	99-114	BMP DETAILS	247-250
PLAN AND PROFILE - S.R. 180	115-116	TRAFFIC CONTROL	251-285
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		SOIL PROFILE	

PROJECT DESCRIPTION

CONSTRUCTION OF A 0.89 MILE EXTENSION OF S.R. 207 FROM THE EXISTING INTERCHANGE AT U.S. 23 TO S.R. 159, SOUTH OF S.R.180, WITH A PROPOSED ROUNDABOUT. PROJECT ALSO INCLUDES A PROPOSED ROUNDABOUT AT THE INTERSECTION OF S.R. 159 AND S.R. 180, RESURFACING AND WIDENING OF HOSPITAL ROAD, AND ALL ASSOCIATED DRAINAGE, TRAFFIC CONTROL AND LIGHTING.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	26.88 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	6.97 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	33.85 ACRES

LIMITED ACCESS

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

2016 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 EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS 18-66 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ENGINEERS SEAL:

STATE OF OHIO
MICHAEL JAMES LORENZ
79990
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: M. J. Lorenz
DATE: 5/1/19

ENGINEERS SEAL:

STATE OF OHIO
PHILIP H. FRY
62452
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Philip H. Fry
DATE: 5/1/19

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7/18/14	DM-1.1	7/21/17	RM-1.1	7/18/14	MT-95.41	7/21/17	TC-41.20	10/18/13	800	4/19/19
BP-4.1	7/19/13	DM-1.2	1/18/13	RM-4.2	7/20/18	MT-96.11	1/20/17	TC-41.30	10/18/13	813	10/19/18
BP-5.1	7/20/18	DM-4.2	7/20/12			MT-96.20	7/15/16	TC-42.20	10/18/13	832	10/19/18
		DM-4.3	1/15/16	HL-10.11	7/20/18	MT-96.26	7/19/13	TC-52.10	10/18/13	836	1/19/18
CB-1.1	7/20/18	DM-4.4	1/15/16	HL-10.12	1/20/17	MT-97.10	7/18/14	TC-52.20	7/20/18	861	1/16/15
CB-2.1	7/20/18			HL-10.13	7/20/18	MT-97.12	1/20/17	TC-65.10	1/17/14	878	1/18/19
		F-2.1	7/20/18	HL-20.11	4/21/17	MT-99.20	7/20/18	TC-65.11	7/21/17	902	12/31/12
HW-2.1	7/20/18	F-3.4	7/19/13	HL-30.11	7/20/18	MT-101.60	1/20/17	TC-71.10	1/19/18		
HW-2.2	7/20/18			HL-30.21	1/17/14						
		MGS-1.1	1/19/18	HL-30.22	1/17/14	MT-101.70	7/20/18				
MH-1.2	1/15/16	MGS-2.1	1/19/18	HL-40.10	1/20/17	MT-101.75	7/15/16				
		MGS-4.2	7/19/13	HL-50.11	1/16/15	MT-101.90	7/21/17				
		MGS-4.3	1/18/13	HL-60.11	7/21/17	MT-105.10	7/19/13				
		MGS-5.3	7/15/16	HL-60.31	7/20/18						

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

WATERWAY PERMIT

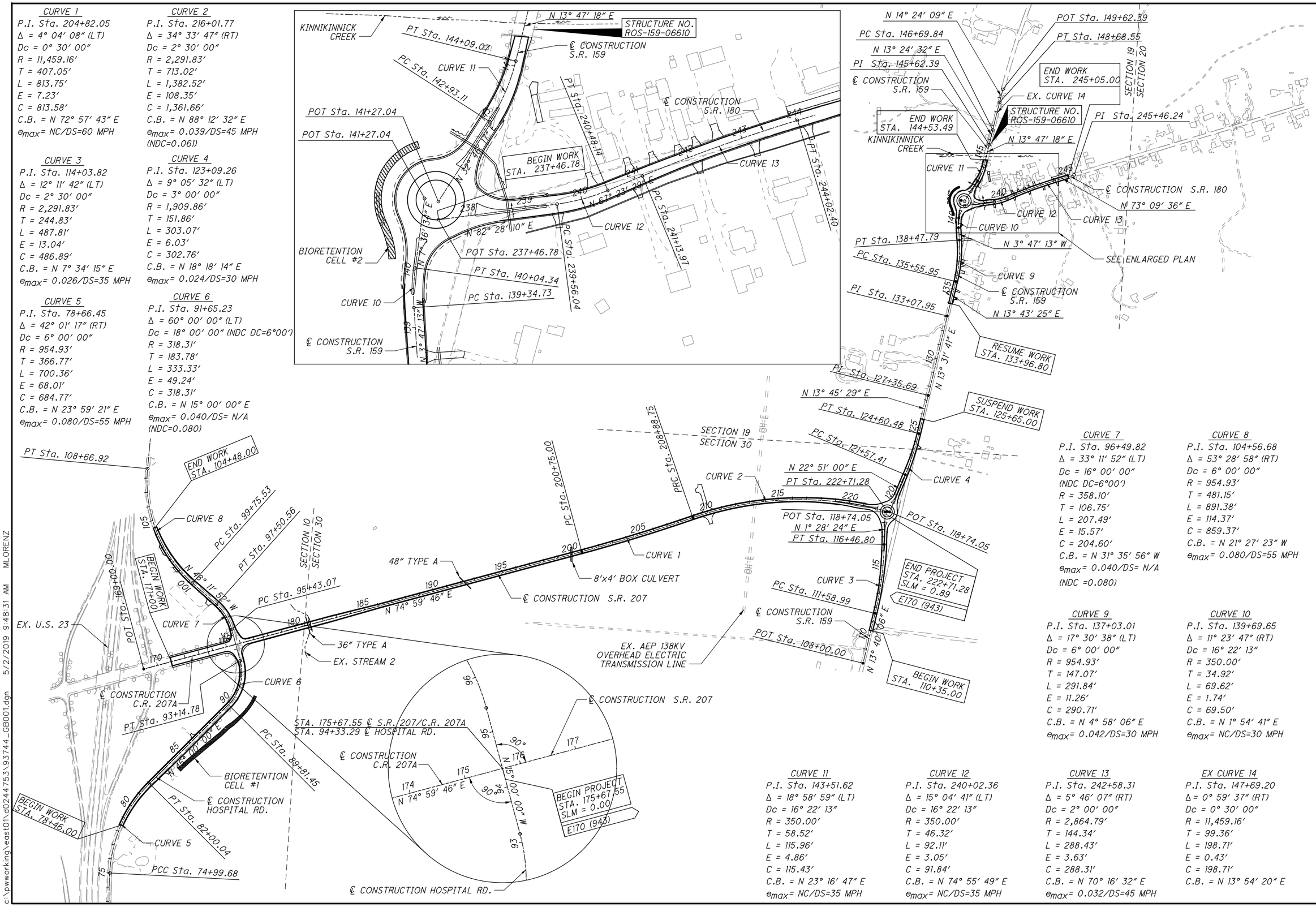
UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

APPROVED: Michael G. Lombardo
DATE 05-09-2019 DISTRICT DEPUTY DIRECTOR

APPROVED
DATE DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E170 (943)
PID NO. 93744
CONSTRUCTION PROJECT NO.
ROS-207-0.00
1 / 332

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CURVE 1
P.I. Sta. 204+82.05
Δ = 4° 04′ 08″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 407.05′
L = 813.75′
E = 7.23′
C = 813.58′
C.B. = N 72° 57′ 43″ E
e_{max}= NC/DS=60 MPH

CURVE 2
P.I. Sta. 216+01.77
Δ = 34° 33′ 47″ (RT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 713.02′
L = 1,382.52′
E = 108.35′
C = 1,361.66′
C.B. = N 88° 12′ 32″ E
e_{max}= 0.039/DS=45 MPH
(NDC=0.061)

CURVE 3
P.I. Sta. 114+03.82
Δ = 12° 11′ 42″ (LT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 244.83′
L = 487.81′
E = 13.04′
C = 486.89′
C.B. = N 7° 34′ 15″ E
e_{max}= 0.026/DS=35 MPH

CURVE 4
P.I. Sta. 123+09.26
Δ = 9° 05′ 32″ (LT)
Dc = 3° 00′ 00″
R = 1,909.86′
T = 151.86′
L = 303.07′
E = 6.03′
C = 302.76′
C.B. = N 18° 18′ 14″ E
e_{max}= 0.024/DS=30 MPH

CURVE 5
P.I. Sta. 78+66.45
Δ = 42° 01′ 17″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 366.77′
L = 700.36′
E = 68.01′
C = 684.77′
C.B. = N 23° 59′ 21″ E
e_{max}= 0.080/DS=55 MPH

CURVE 6
P.I. Sta. 91+65.23
Δ = 60° 00′ 00″ (LT)
Dc = 18° 00′ 00″ (NDC DC=6°00′)
R = 318.31′
T = 183.78′
L = 333.33′
E = 49.24′
C = 318.31′
C.B. = N 15° 00′ 00″ E
e_{max}= 0.040/DS= N/A
(NDC=0.080)

CURVE 7
P.I. Sta. 96+49.82
Δ = 33° 11′ 52″ (LT)
Dc = 16° 00′ 00″
(NDC DC=6°00′)
R = 358.10′
T = 106.75′
L = 207.49′
E = 15.57′
C = 204.60′
C.B. = N 31° 35′ 56″ W
e_{max}= 0.040/DS= N/A
(NDC =0.080)

CURVE 8
P.I. Sta. 104+56.68
Δ = 53° 28′ 58″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 481.15′
L = 891.38′
E = 114.37′
C = 859.37′
C.B. = N 21° 27′ 23″ W
e_{max}= 0.080/DS=55 MPH

CURVE 9
P.I. Sta. 137+03.01
Δ = 17° 30′ 38″ (LT)
Dc = 6° 00′ 00″
R = 954.93′
T = 147.07′
L = 291.84′
E = 11.26′
C = 290.71′
C.B. = N 4° 58′ 06″ E
e_{max}= 0.042/DS=30 MPH

CURVE 10
P.I. Sta. 139+69.65
Δ = 11° 23′ 47″ (RT)
Dc = 16° 22′ 13″
R = 350.00′
T = 34.92′
L = 69.62′
E = 1.74′
C = 69.50′
C.B. = N 1° 54′ 41″ E
e_{max}= NC/DS=30 MPH

CURVE 11
P.I. Sta. 143+51.62
Δ = 18° 58′ 59″ (LT)
Dc = 16° 22′ 13″
R = 350.00′
T = 58.52′
L = 115.96′
E = 4.86′
C = 115.43′
C.B. = N 23° 16′ 47″ E
e_{max}= NC/DS=35 MPH

CURVE 12
P.I. Sta. 240+02.36
Δ = 15° 04′ 41″ (LT)
Dc = 16° 22′ 13″
R = 350.00′
T = 46.32′
L = 92.11′
E = 3.05′
C = 91.84′
C.B. = N 74° 55′ 49″ E
e_{max}= NC/DS=35 MPH

CURVE 13
P.I. Sta. 242+58.31
Δ = 5° 46′ 07″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 144.34′
L = 288.43′
E = 3.63′
C = 288.31′
C.B. = N 70° 16′ 32″ E
e_{max}= 0.032/DS=45 MPH

EX CURVE 14
P.I. Sta. 147+69.20
Δ = 0° 59′ 37″ (RT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 99.36′
L = 198.71′
E = 0.43′
C = 198.71′
C.B. = N 13° 54′ 20″ E

SCHEMATIC PLAN

ROS-207-0.00

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LEGEND

(1) ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22

(2) ITEM 441 - VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22
VARIES FROM 1.25" TO 1.5"

(3) ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)

(4) ITEM 441 - VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
VARIES FROM 0" TO 9"

(5) ITEM 254 - 1 ¼" PAVEMENT PLANING

(6) ITEM 407 - TACK COAT

(7) ITEM 301 - 4" ASPHALT CONCRETE BASE, PG 64-22

(8) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG 64-22

(9) ITEM 304 - 6" AGGREGATE BASE (5" FOR S.R. 159 SHOULDER)

(10) ITEM 304 - 8" AGGREGATE BASE

(11) ITEM 304 - 8" AGGREGATE BASE WITH ITEM 422 CHIP SEAL

(12) ITEM 204 - SUBGRADE COMPACTION

(12A) ITEM 204 - PROOF ROLLING

(13) ITEM 204 - EXCAVATION AND REPLACEMENT WITH GRANULAR MATERIAL
TYPE C AND GEOTEXTILE FABRIC - SEE TABLE 1 BELOW FOR TYPE AND LIMITING STATIONS

(13A) ITEM 206 - STABILIZED SUBGRADE - SEE TABLE 1 BELOW FOR TYPE AND LIMITING STATIONS

(14) ITEM 605 - 6" BASE PIPE UNDERDRAIN

(14A) ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN

(15) ITEM 605 - AGGREGATE DRAINS

(16) ITEM 609 - CURB, TYPE 3, AS PER PLAN (SEE SHEET 6)

(17) ITEM 609 - CURB, TYPE 3-B, AS PER PLAN (SEE SHEET 6)

(18) ITEM 609 - CURB, TYPE 6

(19) ITEM 609 - 6" CONCRETE TRAFFIC ISLAND

(20) ITEM 606 - GUARDRAIL, TYPE MGS

(21) ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS

(22) ITEM 606 - GUARDRAIL, TYPE 5

(23) ITEM 659 - SEEDING AND MULCHING

(24) ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT

(25) ITEM 304 - VARIABLE DEPTH AGGREGATE BASE (VARIES 0" TO 9")

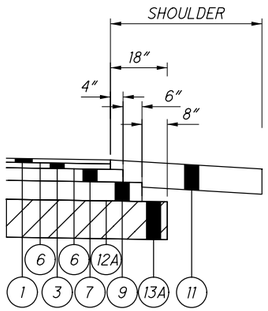
(26) ITEM 609 - CURB, TYPE 2

(A) ±12" ASPHALT PAVEMENT (E) ±6" AGGREGATE BASE

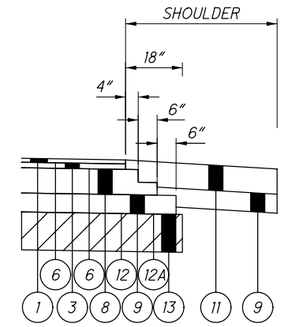
(B) ±11" ASPHALT PAVEMENT (F) ASSUMED 30' EX. APPROACH SLAB WITH ASPHALT OVERLAY

(C) ±3" ASPHALT PAVEMENT

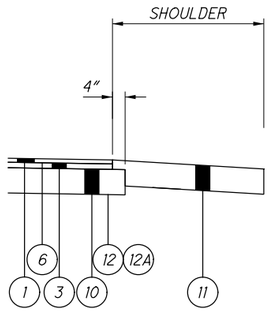
(D) ±8" AGREGATE BASE



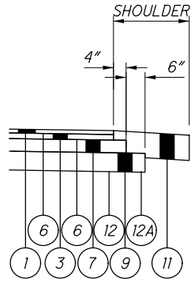
PAVEMENT STEP DETAIL
S.R. 207



PAVEMENT STEP DETAIL
HOSPITAL RD SOUTH OF S.R. 207

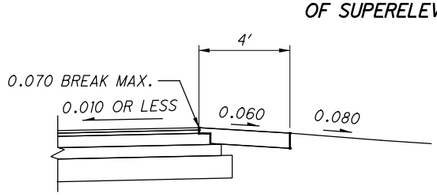


PAVEMENT STEP DETAIL
HOSPITAL RD NORTH OF S.R. 207

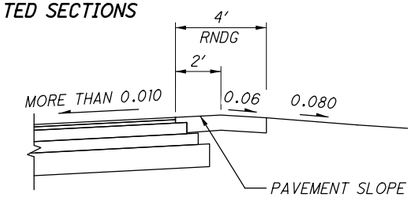


PAVEMENT STEP DETAIL
S.R. 180

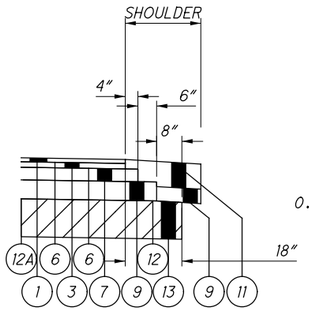
SHOULDER DETAILS AT HIGH SIDE OF SUPERELEVATED SECTIONS



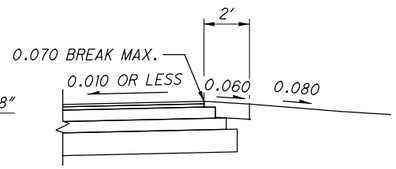
FOR PAVEMENT SLOPES OF 0.010 OR LESS



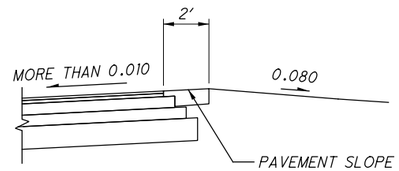
FOR PAVEMENT SLOPES MORE THAN 0.010



PAVEMENT STEP DETAIL
S.R. 159



FOR PAVEMENT SLOPES OF 0.010 OR LESS



FOR PAVEMENT SLOPES MORE THAN 0.010

* BOTTOM OF AGGREGATE DRAIN OR UNDERDRAIN TO MATCH BOTTOM OF GRANULAR MATERIAL

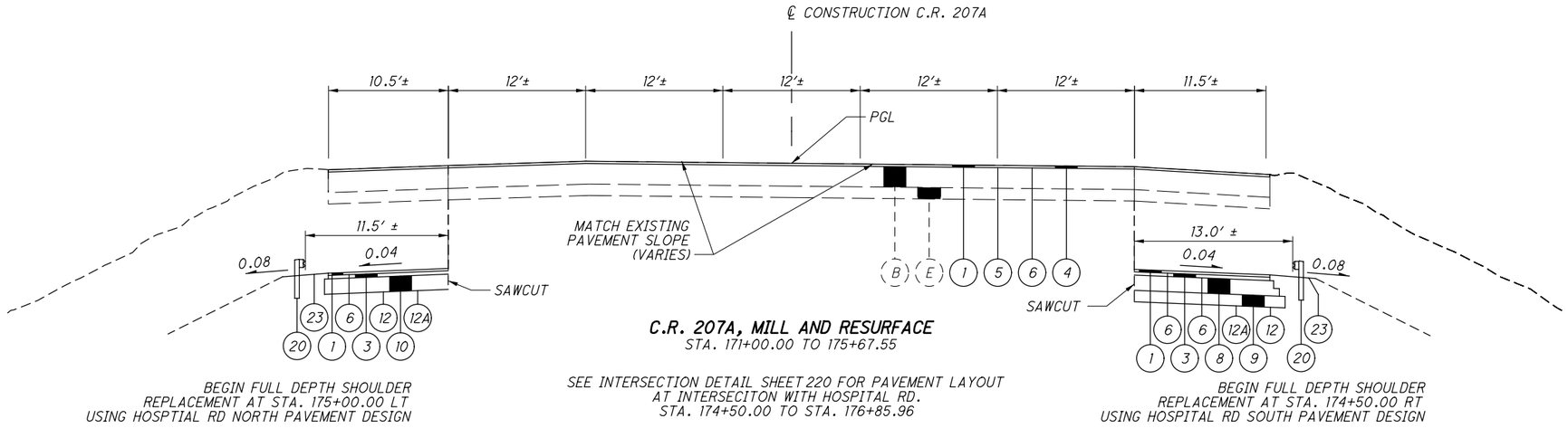
TABLE 1 - SUBGRADE TREATMENT RANGES			
ALIGNMENT	BEGIN STA.	END STA.	STABILIZATION METHOD
S.R. 207	175+67.55	END OF ROUNDABOUT SPLITTER ISLAND	12" ITEM 206 CEMENT STABILIZED SUBGRADE
HOSPITAL RD	78+46.00	82+00.00	12" ITEM 204 EXCAVATION AND REPLACEMENT WITH GRANULAR MATERIAL TYPE C AND GEOTEXTILE FABRIC
S.R. 159	123+50.00	125+65.00	24" ITEM 204 EXCAVATION AND REPLACEMENT WITH GRANULAR MATERIAL TYPE C AND GEOTEXTILE FABRIC
S.R. 159	137+00.00	139+00.00	12" ITEM 204 EXCAVATION AND REPLACEMENT WITH GRANULAR MATERIAL TYPE C AND GEOTEXTILE FABRIC

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS LEGEND

ROS-207-0.00

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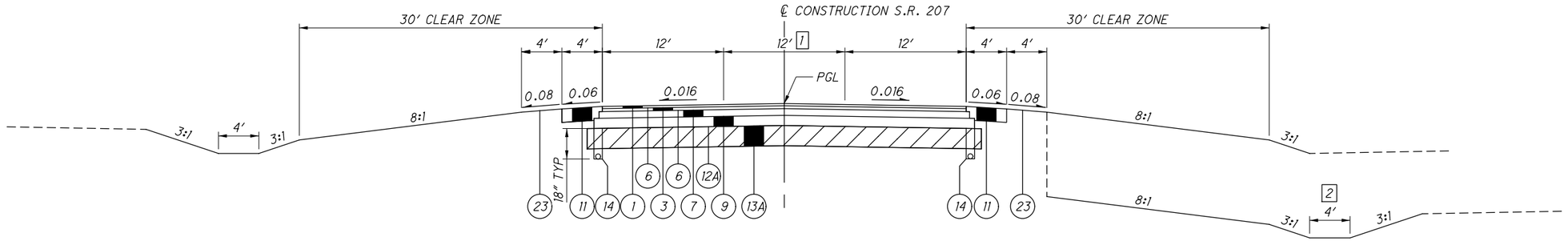


C.R. 207A, MILL AND RESURFACE
STA. 171+00.00 TO 175+67.55

BEGIN FULL DEPTH SHOULDER
REPLACEMENT AT STA. 175+00.00 LT
USING HOSPTIAL RD NORTH PAVEMENT DESIGN

SEE INTERSECTION DETAIL SHEET 220 FOR PAVEMENT LAYOUT
AT INTERSECITON WITH HOSPITAL RD.
STA. 174+50.00 TO STA. 176+85.96

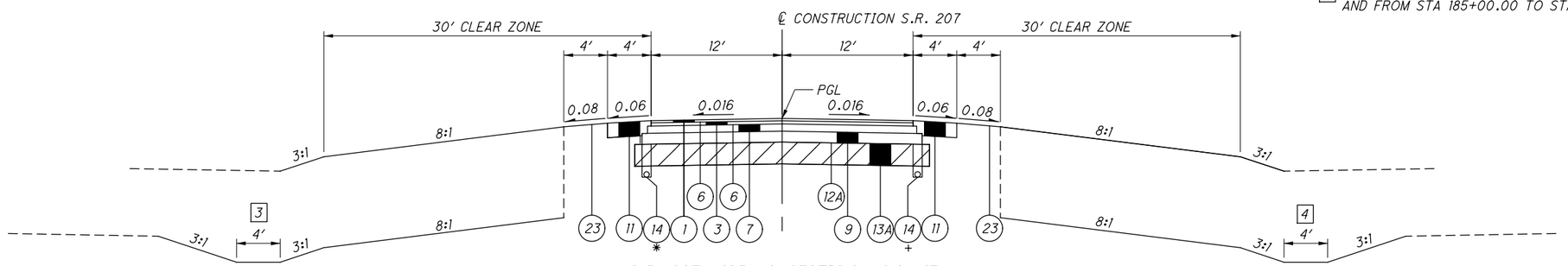
BEGIN FULL DEPTH SHOULDER
REPLACEMENT AT STA. 174+50.00 RT
USING HOSPITAL RD SOUTH PAVEMENT DESIGN



S.R. 207, NORMAL SECTION - 3 LANE
FULL DEPTH PAVEMENT
STA. 175+67.55 TO 186+16.68

[1] WIDTH IS 12.00' FROM STA. 177+28.52 TO STA. 182+56.68
WIDTH VARIES FROM 12.00' AT STA. 182+56.68 TO
0.00' AT STA. 186+16.68

[2] PROPOSED DITCH FROM STA 177+28.52 TO STA. 180+90.00
AND FROM STA 185+00.00 TO STA. 186+16.68



S.R. 207, NORMAL SECTION - 2 LANE
FULL DEPTH PAVEMENT
STA. 186+16.68 TO 207+76.86

* STA. 186+16.68 TO STA. 192+00.00
STA. 192+50.00 TO STA. 207+76.86

+ STA. 186+16.68 TO STA. 192+20.00
STA. 192+70.00 TO STA. 207+76.86

[3] PROPOSED DITCH FROM STA 186+16.68 TO STA. 200+12.73

[4] PROPOSED DITCH FROM STA 186+16.68 TO STA 199+77.25

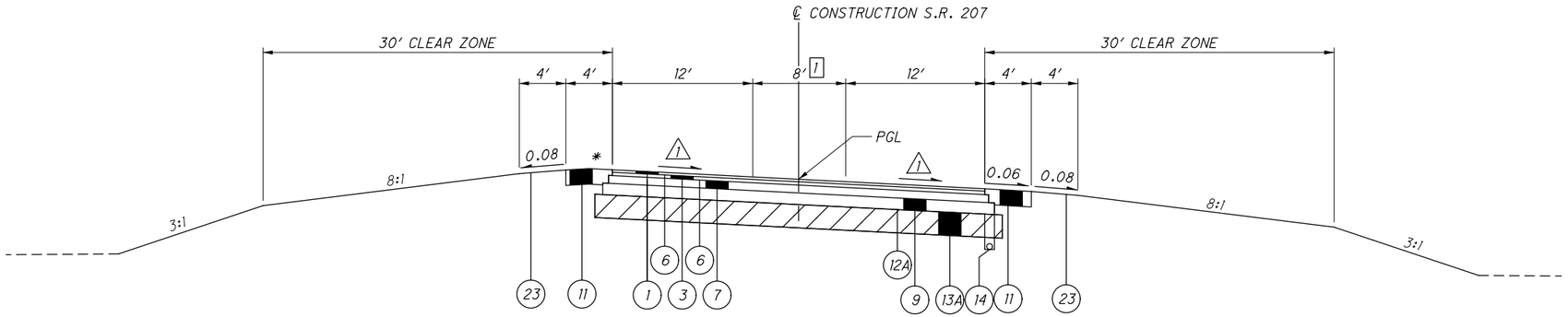
NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET3
3. SEE INTERSECTION DETAILS SHEETS
FOR ADDITIONAL INFORMATION FROM STA. 174+73.18
TO STA. 177+28.52

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 207

ROS-207-0.00

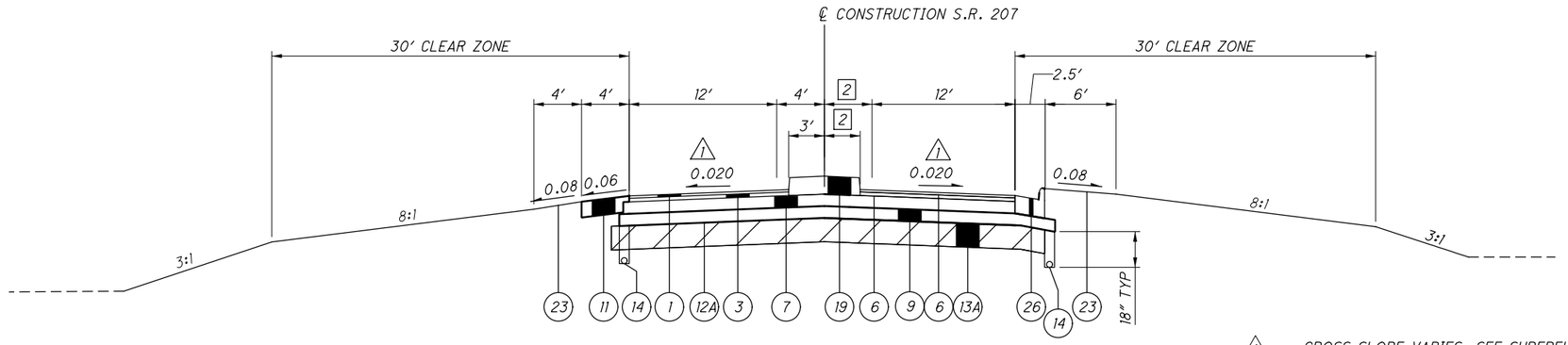
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* REFER TO HIGH SIDE SHOULDER DETAILS SEE SHEET 3

S.R. 207, SUPERELEVATED SECTION (RIGHT) - 2 LANE FULL DEPTH PAVEMENT

STA. 207+76.86 TO 219+00.00 - CURVE 2 (E MAX = 0.039)



S.R. 207, NORMAL SECTION - 2 LANE WITH SPLITTER ISLAND FULL DEPTH PAVEMENT

STA. 219+00.00 TO 221+37.61

1 CROSS SLOPE VARIES, SEE SUPERELEVATION TABLE AND INTERSECTION DETAIL SHEETS FOR MORE INFORMATION.

[1] WIDTH VARIES FROM 0.00′ AT STA. 216+60.00 TO 8.00′ AT STA. 219+00.00

[2] WIDTH VARIES, SEE INTERSECTION DETAIL SHEET FOR MORE INFORMATION.

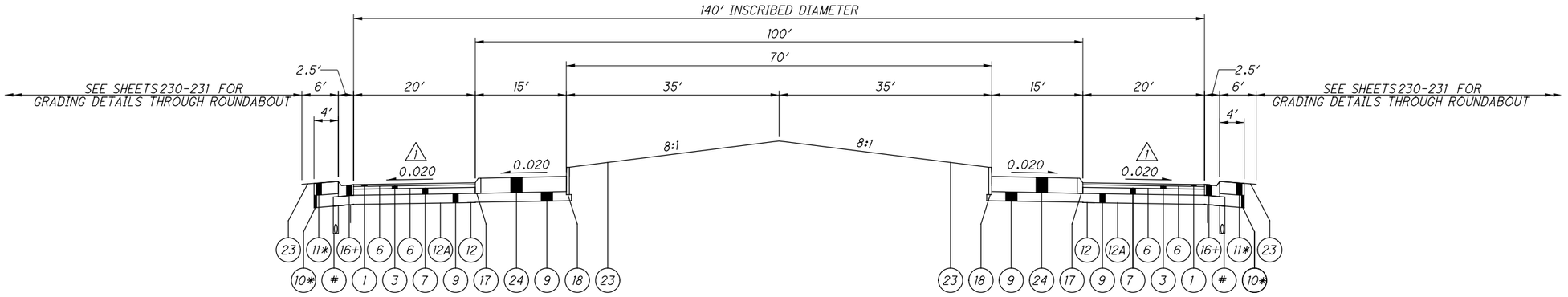
NOTES:
1. USE 4′ ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 207

ROS-207-0.00

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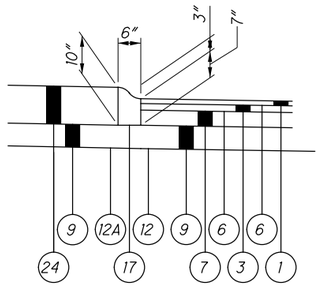
ROUNDABOUT NORMAL SECTION

 # - SEE PAVEMENT STEP DETAIL BELOW FOR UNDEDRAIN PLACEMENT

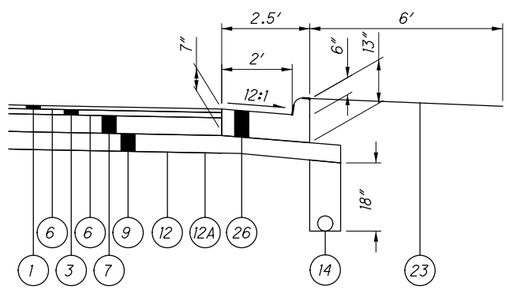
NOTES:
1. *USE 4′ ROUNDING AT ALL GRADING BREAKS UNLESS NOTED*
2. *FOR LEGEND, SEE SHEET3*
3. *SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND*

** ITEMS 10 & 11 BEHIND CURB WILL NOT BE REQUIRED FOR THE ROUNDABOUT AT THE S.R. 207 AND S.R. 159 INTERSECTION*

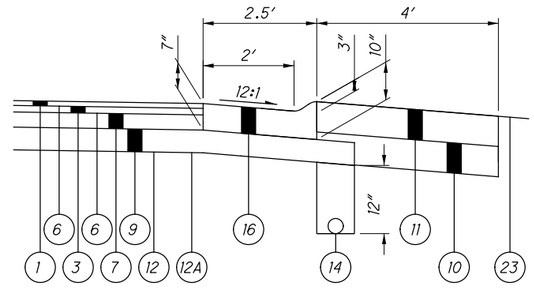
+ ITEM 16 WILL BE REPLACED WITH ITEM 26 FOR THE ROUNDABOUT AT THE S.R. 207 AND S.R. 159 INTERSECTION



S.R. 207/S.R. 159 ROUNDABOUT
S.R. 159/S.R. 180 ROUNDABOUT
ITEM 17 - CURB, TYPE 3-B
AS PER PLAN DETAILS



S.R. 207/S.R. 159 ROUNDABOUT
ITEM 26 - CURB, TYPE 2
PAVEMENT STEP DETAIL



S.R. 159/S.R. 180 ROUNDABOUT
ITEM 16 - CURB, TYPE 3
AS PER PLAN DETAILS

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - ROUNDABOUT

ROS-207-0.00

6
332

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CALCULATED MJL
CHECKED DMV

△1 CROSS SLOPE VARIES SEE SUPERELEVATION TABLE FOR MORE INFORMATION

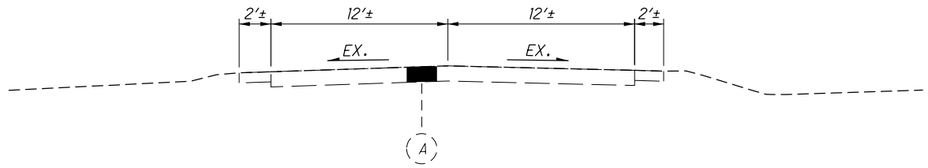
1 WIDTH VARIES FROM 1.7'± AT STA. 110+35.00 TO 2.00' AT STA. 110+50.00
WIDTH VARIES FROM 2.00 AT STA. 125+30.00 TO 1.7'± AT STA. 125+65.00

2 WIDTH VARIES FROM 11.8'± AT STA. 110+35.00 TO 12.00' AT STA. 110+50.00
WIDTH VARIES FROM 12.00' AT STA. 125+30.00 TO 11.9'± AT STA. 125+65.00

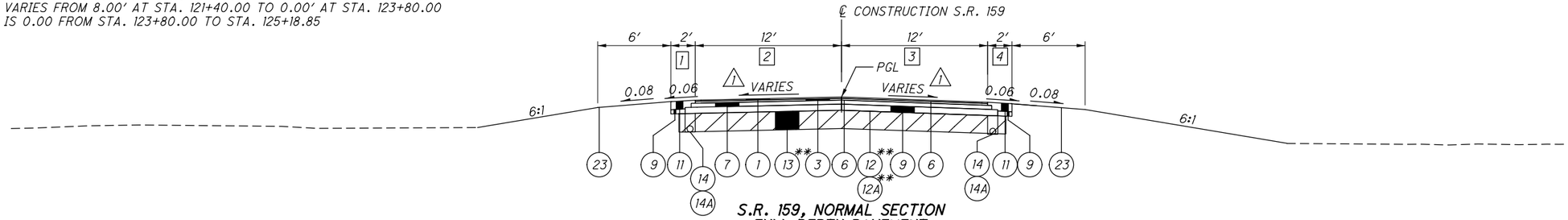
3 WIDTH VARIES FROM 12.00' AT STA. 125+30.00 TO 11.9'± AT STA. 125+65.00

4 WIDTH VARIES FROM 2.00' AT STA. 125+30.00 TO 0.6'± AT STA. 125+65.00

5 WIDTH IS 0.00' FROM STA. 110+84.99 TO STA. 113+60.00
WIDTH VARIES FROM 0.00' AT STA. 113+60.00 TO 8.00' AT STA. 116+00.00
WIDTH VARIES FROM 8.00' AT STA. 121+40.00 TO 0.00' AT STA. 123+80.00
WIDTH IS 0.00 FROM STA. 123+80.00 TO STA. 125+18.85



S.R. 159, EXISTING TYPICAL SECTION

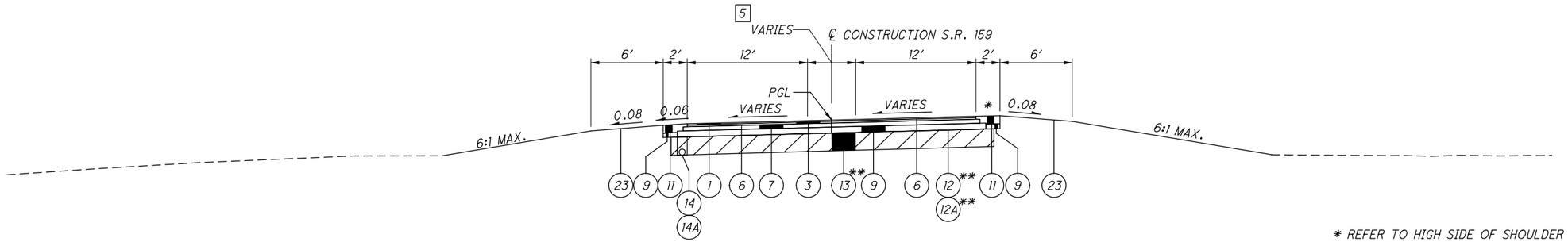


S.R. 159, NORMAL SECTION
FULL DEPTH PAVEMENT

STA. 110+35.00 TO 110+84.99
STA. 125+18.85 TO 125+65.00

(14) STA. 110+35.00 TO 110+84.99
18" - BASE PIPE UNDERDRAIN

(14A) STA. 125+18.85 TO 125+65.00
24" - SHALLOW PIPE UNDERDRAIN TO BOTTOM OF GRANULAR MATERIAL



S.R. 159, SUPERELEVATED SECTION (LEFT)
FULL DEPTH PAVEMENT

STA. 110+84.99 TO 116+00.00 CURVE 3 (EMAX=0.026)
STA. 121+40.00 TO 125+18.85 CURVE 4 (EMAX=0.024)

(14) STA. 110+84.99 TO STA. 116+00.00
STA. 121+40.00 TO STA. 123+50.00
18" - BASE PIPE UNDERDRAIN

(14A) STA. 123+50.00 TO STA. 125+18.85
24" - SHALLOW PIPE UNDERDRAIN TO BOTTOM OF GRANULAR MATERIAL

* REFER TO HIGH SIDE OF SHOULDER DETAILS SHOWN ON SHEET 3

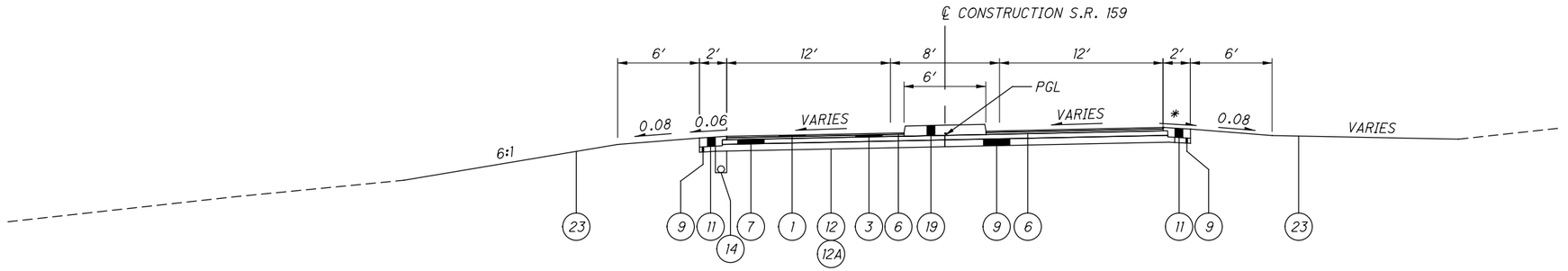
** REFER TO TABLE 1 ON SHEET3 FOR SUBGRADE TREATMENT RANGES

NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3

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TYPICAL SECTIONS - S.R. 159

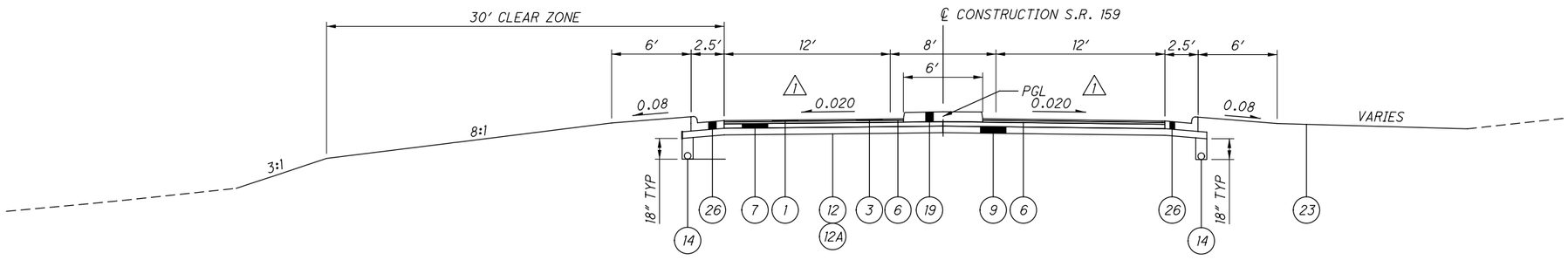
ROS-207-0.00



S.R. 159, SUPERELEVATED SECTION (LEFT)
WITH SPLITTER ISLAND
FULL DEPTH PAVEMENT

STA. 116+00.00 TO 117+31.81 CURVE 3 (EMAX=0.026)
STA. 120+69.86 TO 121+40.00 CURVE 4 (EMAX=0.024)

* REFER TO HIGH SIDE OF SHOULDER DETAILS SHOWN ON SHEET 3



S.R. 159, NORMAL SECTION
WITH SPLITTER ISLAND
FULL DEPTH PAVEMENT

STA. 117+31.81 TO 117+53.52
STA. 119+89.11 TO 120+69.86

⚠1 CROSS SLOPE VARIES SEE INTERSECTION DETAIL SHEETS FOR MORE INFORMATION

NOTES:
1. USE 4′ ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 159

ROS-207-0.00

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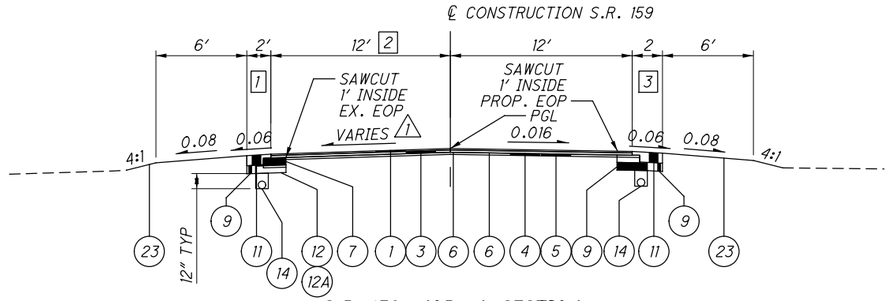
△1 CROSS SLOPE VARIES SEE SUPERELEVATION TABLE FOR MORE INFORMATION

[1] WIDTH VARIES FROM 1.5'± AT STA. 133+96.80 TO 2.00' AT STA. 134+11.80

[2] WIDTH VARIES FROM 11.8'± AT STA. 133+96.80 TO 12.00' AT STA. 134+11.80

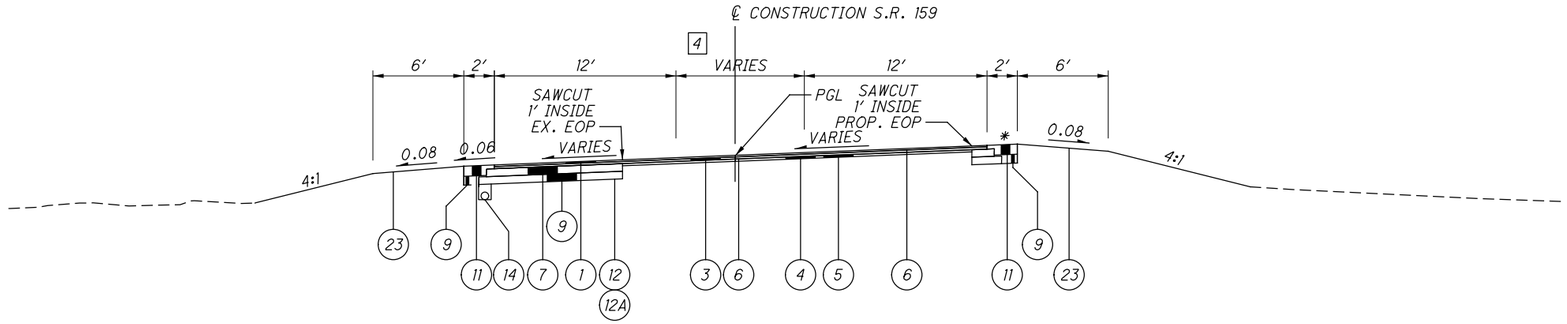
[3] WIDTH VARIES FROM 2.2'± AT STA. 133+96.80 TO 6.00' AT STA. 134+11.54
WIDTH IS 6.00' FROM STA. 134+11.54 TO DRIVEWAY AT STA. 134+38.15
WIDTH IS 2.00 FROM DRVIEWAY AT STA. 134+38.15 TO STA. 134+75.69

[4] WIDTH IS 0.00' FROM STA. 134+75.69 TO STA. 136+15.00
WIDTH VARIES FROM 0.00' AT STA. 136+15.00 TO 8.00' AT STA. 136+50.00



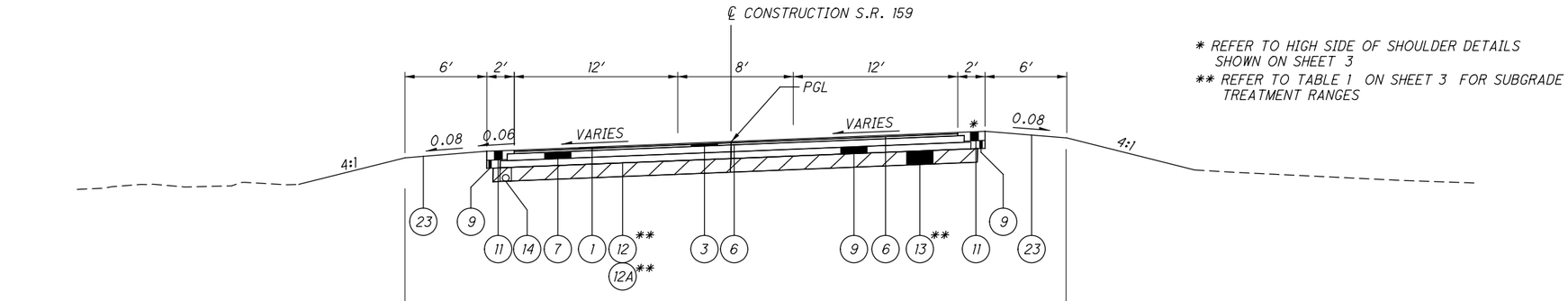
S.R. 159, NORMAL SECTION
MILL AND OVERLAY

STA. 133+96.80 TO 134+75.69



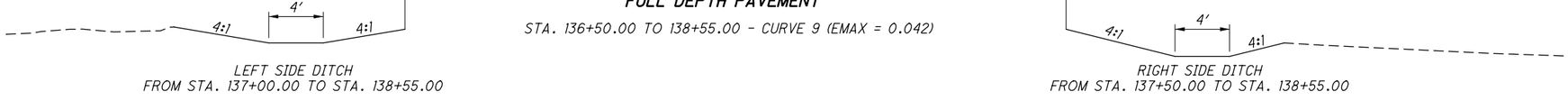
S.R. 159, SUPERELEVATED SECTION (LEFT)
MILL AND OVERLAY

STA. 134+75.69 TO 136+50.00 - CURVE 9 (EMAX = 0.042)



S.R. 159, SUPERELEVATED SECTION (LEFT)
FULL DEPTH PAVEMENT

STA. 136+50.00 TO 138+55.00 - CURVE 9 (EMAX = 0.042)



LEFT SIDE DITCH
FROM STA. 137+00.00 TO STA. 138+55.00

RIGHT SIDE DITCH
FROM STA. 137+50.00 TO STA. 138+55.00

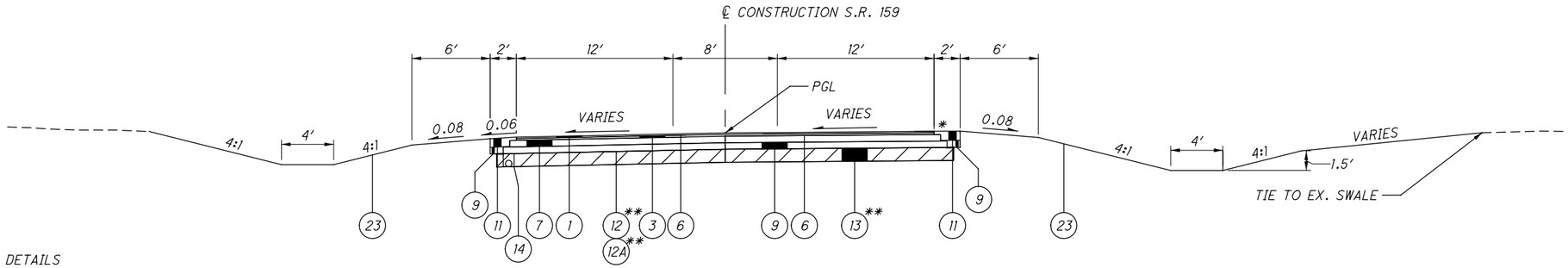
NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3

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CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 159

ROS-207-0.00

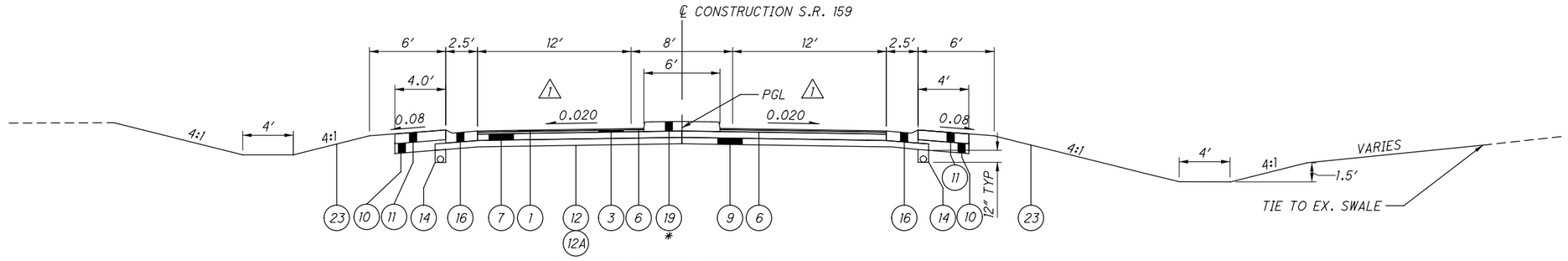


* REFER TO HIGH SIDE OF SHOULDER DETAILS SHOWN ON SHEET 3

** REFER TO TABLE 1 ON SHEET 5 FOR SUBGRADE TREATMENT RANGES

S.R. 159, SUPERELEVATED SECTION (LEFT)
WITH STRIPED SPLITTER ISLAND
FULL DEPTH PAVEMENT

STA. 138+55.00 TO 139+50.94 CURVE 9 (EMAX = 0.042)



S.R. 159, NORMAL SECTION
WITH SPLITTER ISLAND
FULL DEPTH PAVEMENT

STA. 139+50.84 TO STA. 140+13.89
* RAISED SPLITTER ISLAND BEGINS AT STA. 139+57.38, SEE INTERSECTION DETAIL SHEETS FOR MORE INFORMATION

⚠1 CROSS SLOPE VARIES SEE INTERSECTION DETAIL SHEETS FOR MORE INFORMATION

NOTES:
1. USE 4′ ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND

CALCULATED MJL
CHECKED DMV

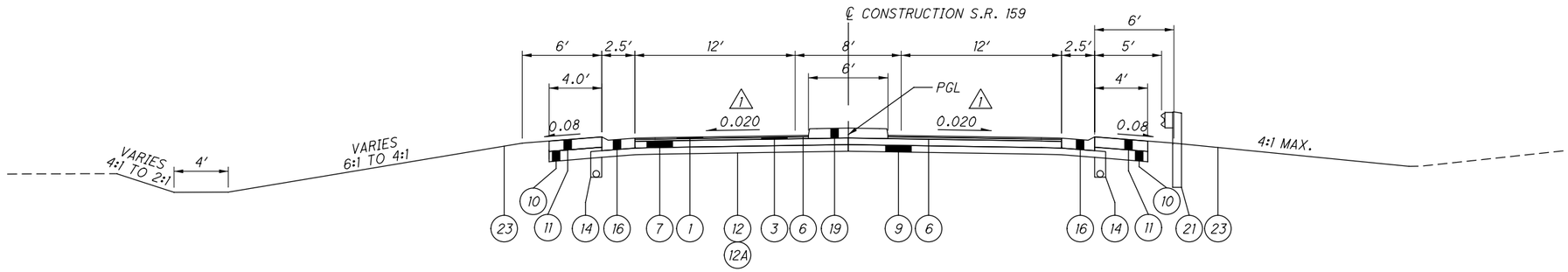
TYPICAL SECTIONS - S.R. 159

ROS-207-0.00

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CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 159



1 WIDTH VARIES FROM 12.00′ AT STA. 143+22.39 TO 11.6′± AT STA. 144+51.43

2 WIDTH VARIES FROM 8.00′ AT STA. 143+22.39 TO 0.00′ AT STA. 144+53.49

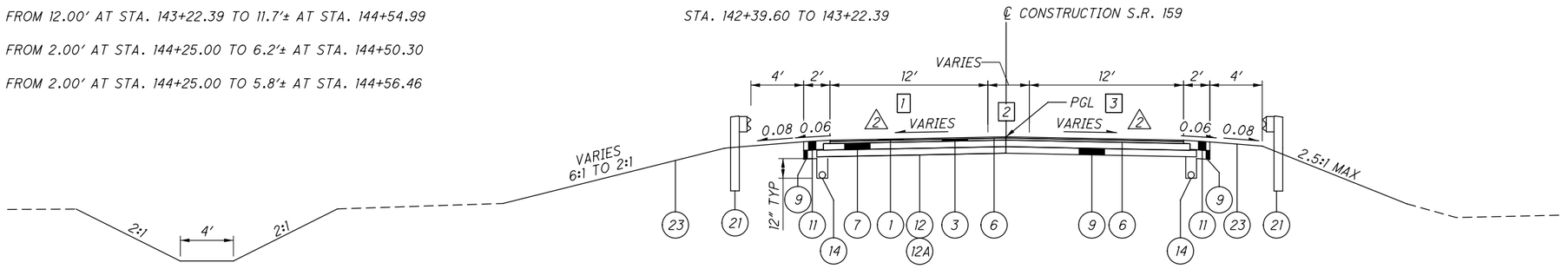
3 WIDTH VARIES FROM 12.00′ AT STA. 143+22.39 TO 11.7′± AT STA. 144+54.99

4 WIDTH VARIES FROM 2.00′ AT STA. 144+25.00 TO 6.2′± AT STA. 144+50.30

5 WIDTH VARIES FROM 2.00′ AT STA. 144+25.00 TO 5.8′± AT STA. 144+56.46

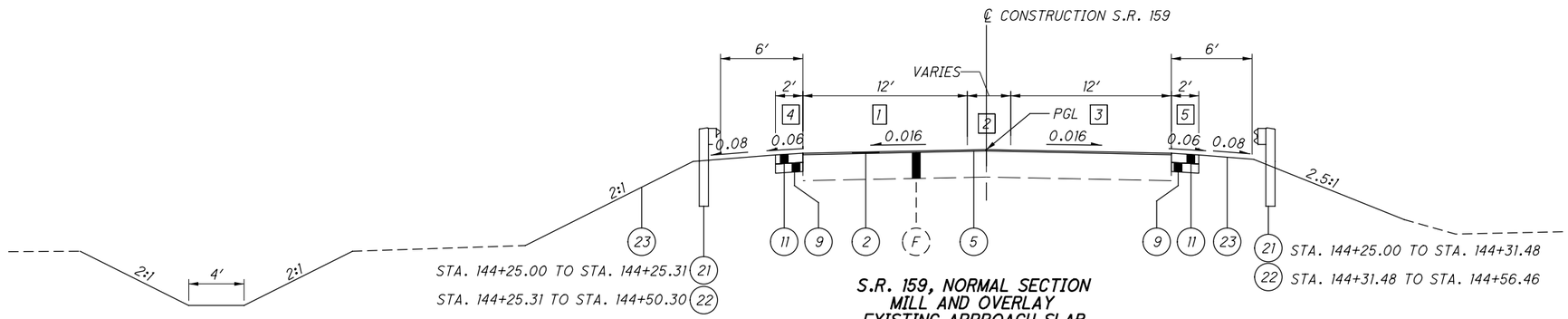
S.R. 159, NORMAL SECTION
WITH SPLITTER ISLAND
FULL DEPTH PAVEMENT

STA. 142+39.60 TO 143+22.39



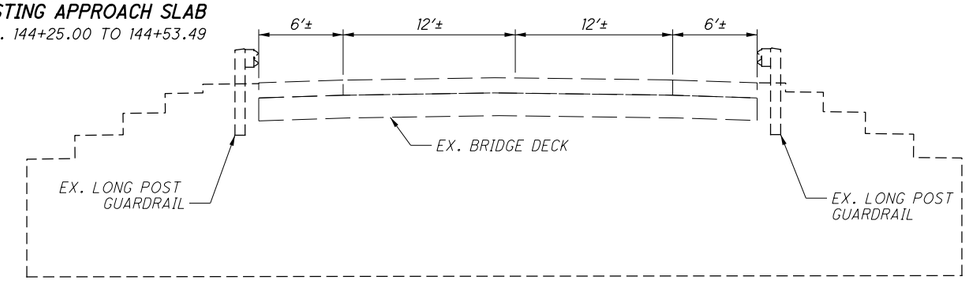
S.R. 159, NORMAL SECTION
FULL DEPTH PAVEMENT

STA. 143+22.39 TO 144+25.00 (APPROX. START OF EX. APPROACH SLAB)



S.R. 159, NORMAL SECTION
MILL AND OVERLAY
EXISTING APPROACH SLAB

STA. 144+25.00 TO 144+53.49



S.R. 159, EXISTING TYPICAL
AT EXISTING BRIDGE

1 CROSS SLOPE VARIES SEE INTERSECTION DETAIL SHEETS FOR MORE INFORMATION

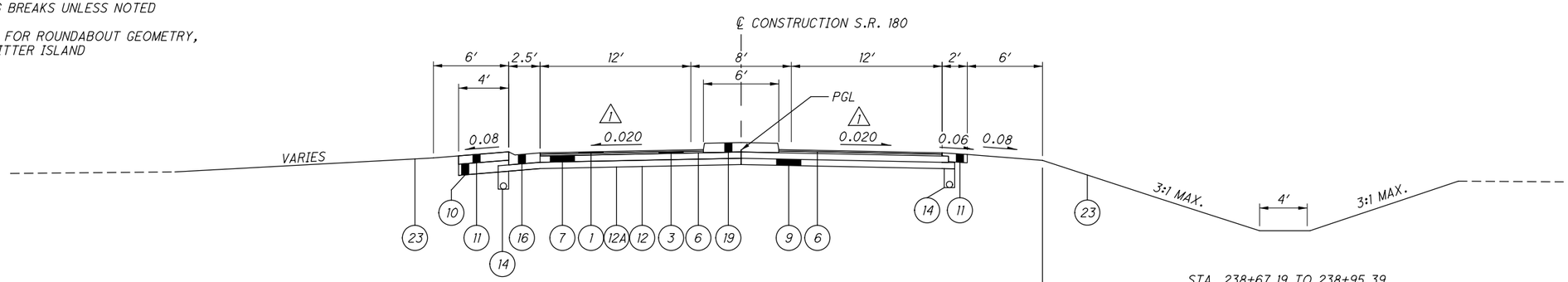
2 CROSS SLOPE VARIES SEE SUPERELEVATION TABLE FOR MORE INFORMATION

NOTES:
1. USE 4′ ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND
4. FOR LIMITING STATIONS OF GUARDRAIL SEE PLAN SHEETS

ROS-207-0.00

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NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT GEOMETRY, INTRODUCTION OF CURB, AND SPLITTER ISLAND



STA. 238+67.19 TO 238+95.39

STA. 238+95.39 TO 239+40.00

S.R. 180, NORMAL SECTION - WITH SPLITTER ISLAND

STA. 238+67.19 TO 239+40.00

⚠1 CROSS SLOPE VARIES SEE INTERSECTION DETAIL SHEETS FOR MORE INFORMATION

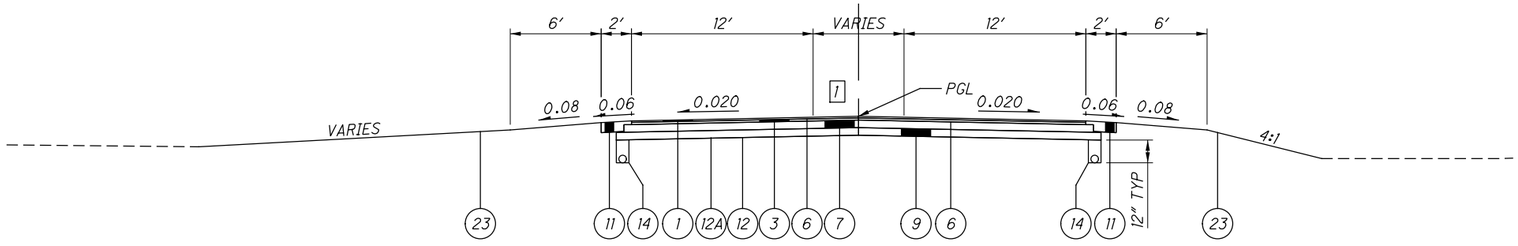
[1] WIDTH VARIES FROM 8.00' AT STA. 239+40.00 TO 5.29' AT STA. 240+21.23

[2] WIDTH IS 6.00' FROM STA. 240+21.23 TO STA. 241+00.00
WIDTH VARIES FROM 6.00' AT STA. 241+00.00 TO 2.00' AT STA. 242+00.00
WIDTH IS 2.00' FROM STA. 242+00.00 TO STA. 245+05.00

[3] WIDTH IS 4.00' FROM STA. 243+90.05 TO STA. 245+05.00

[4] WIDTH VARIES FROM 12.00' AT STA. 244+45.00 TO 11.1'± AT STA. 245+05.00

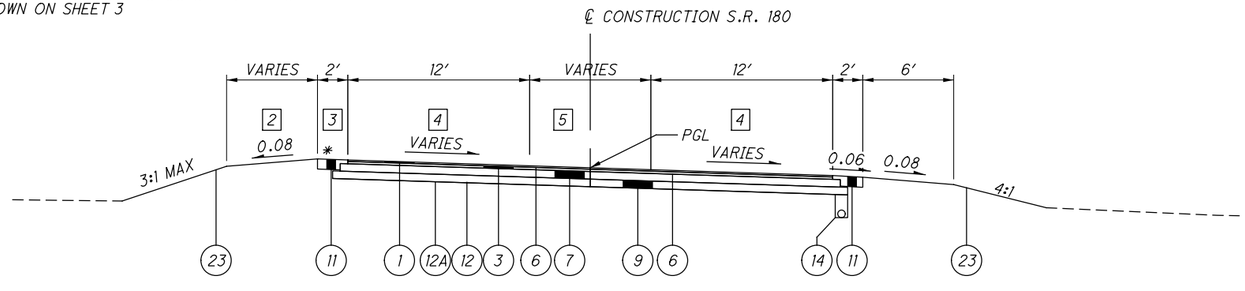
[5] WIDTH VARIES FROM 5.29' AT STA. 240+21.23 TO 0.00' AT STA. 241+79.92



S.R. 180, NORMAL SECTION

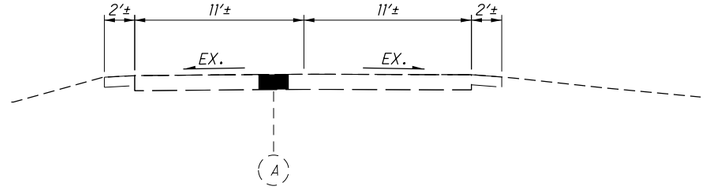
STA. 239+40.00 TO 240+21.23

* REFER TO HIGH SIDE SHOULDER DETIALS SHOWN ON SHEET 3



S.R. 180, SUPERELEVATED SECTION (RIGHT) FULL DEPTH PAVEMENT

STA. 240+21.23 TO 245+05.00 - CURVE 13 (EMAX = 0.032)



S.R. 180, EXISTING TYPICAL SECTION

CALCULATED MJL
CHECKED DMV

TYPICAL SECTIONS - S.R. 180

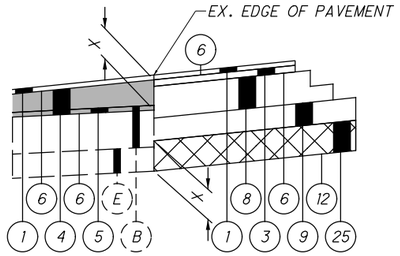
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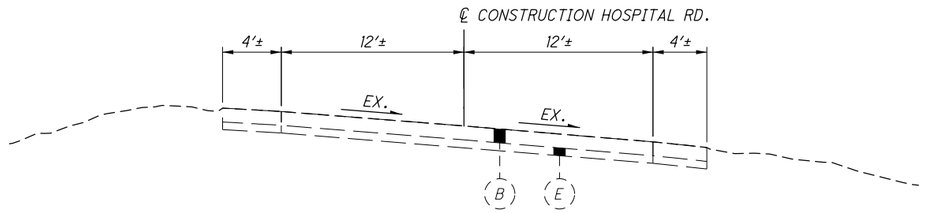
HOSPITAL ROAD WEDGING DETAIL

= VARIABLE DEPTH AGGREGATE BASE

X VARIES



HOSPITAL ROAD SOUTH

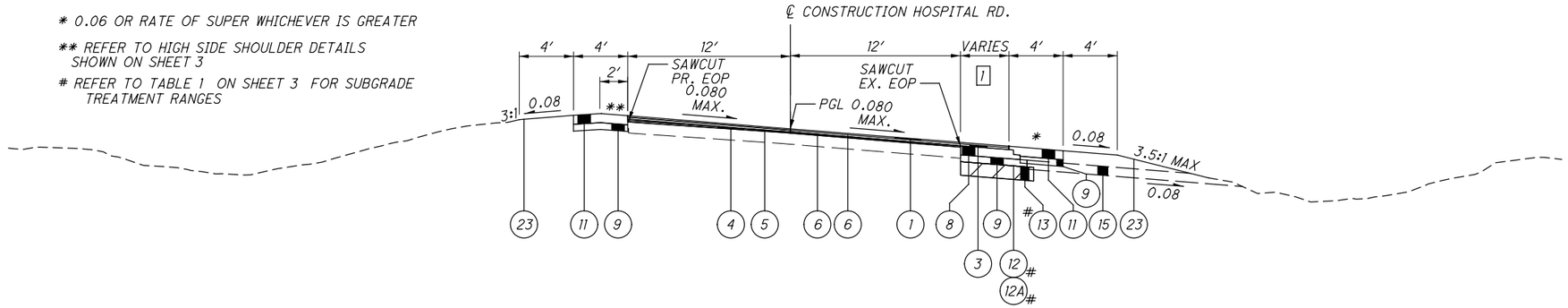


HOSPITAL ROAD (SOUTH OF S.R. 207), EXISTING TYPICAL SECTION

* 0.06 OR RATE OF SUPER WHICHEVER IS GREATER

** REFER TO HIGH SIDE SHOULDER DETAILS SHOWN ON SHEET 3

REFER TO TABLE 1 ON SHEET 3 FOR SUBGRADE TREATMENT RANGES

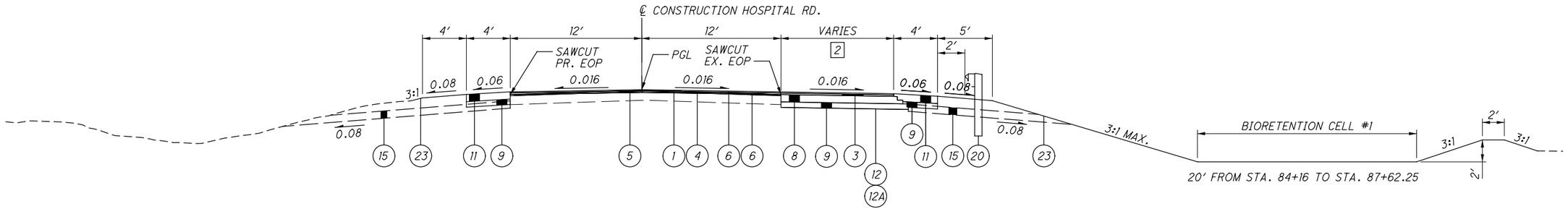


HOSPITAL ROAD SOUTH OF S.R. 207, SUPERELEVATED SECTION (RIGHT)
MILL AND OVERLAY

STA. 78+46.00 TO 83+43.18

1 WIDTH VARIES FROM 0.00' AT STA. 78+46.00 TO 9.04' AT STA. 83+43.18

2 WIDTH VARIES FROM 9.04' AT STA. 83+43.18 TO 12.00' AT STA. 85+06.00
WIDTH IS 12.00' FROM STA. 85+06.00 TO 87+62.25



HOSPITAL ROAD SOUTH OF S.R. 207, NORMAL SECTION
MILL AND OVERLAY

STA. 83+43.18 TO 87+62.25

NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. FOR LIMITING STATIONS OF GUARDRAIL SEE PLAN SHEETS

CALCULATED MJL
CHECKED DMV

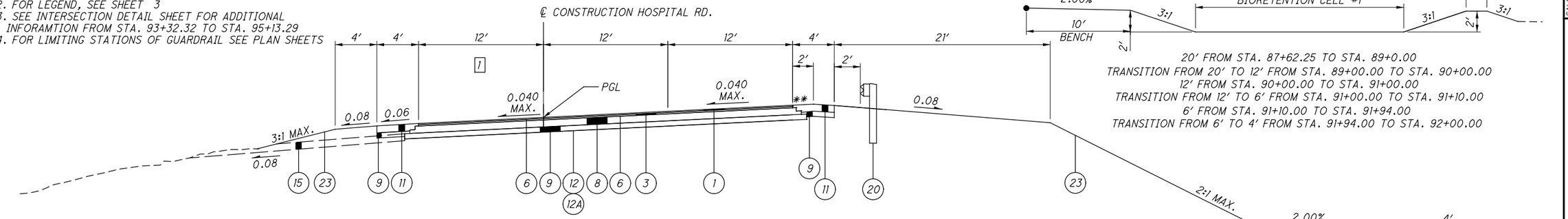
TYPICAL SECTIONS - HOSPITAL ROAD

ROS-207-0.00

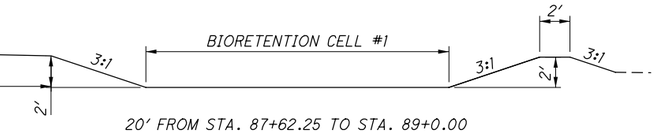
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NOTES:
1. USE 4' ROUNDING AT ALL GRADING BREAKS UNLESS NOTED
2. FOR LEGEND, SEE SHEET 3
3. SEE INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORAMTION FROM STA. 93+32.32 TO STA. 95+13.29
4. FOR LIMITING STATIONS OF GUARDRAIL SEE PLAN SHEETS



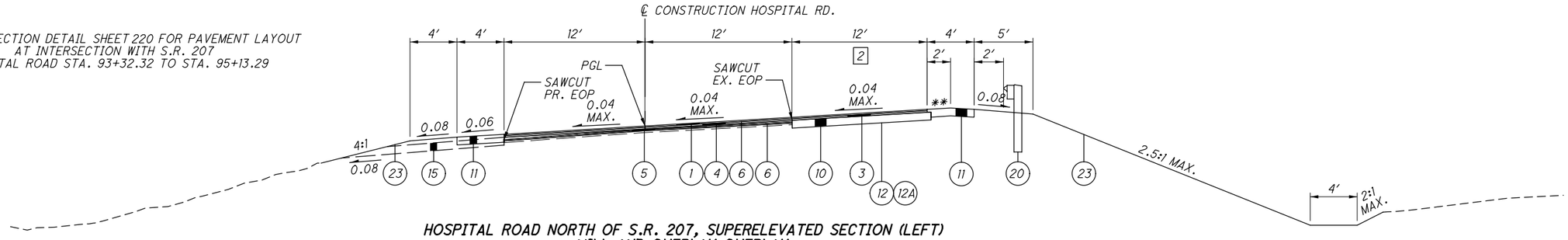
HOSPITAL ROAD SOUTH OF S.R. 207, SUPERELEVATED SECTION (LEFT)
FULL DEPTH PAVEMENT
STA. 87+62.25 TO 93+32.32
(FULL DEPTH BEGINS AT STA. 89+00.00)



20' FROM STA. 87+62.25 TO STA. 89+0.00
TRANSITION FROM 20' TO 12' FROM STA. 89+00.00 TO STA. 90+00.00
12' FROM STA. 90+00.00 TO STA. 91+00.00
TRANSITION FROM 12' TO 6' FROM STA. 91+00.00 TO STA. 91+10.00
6' FROM STA. 91+10.00 TO STA. 91+94.00
TRANSITION FROM 6' TO 4' FROM STA. 91+94.00 TO STA. 92+00.00

HOSPITAL RD PAVEMENT DESIGN CHANGE AT INTERSECTION WITH S.R. 207
SEE TYPICAL SECTION LEGEND FOR PAVEMENT STEP DETAILS

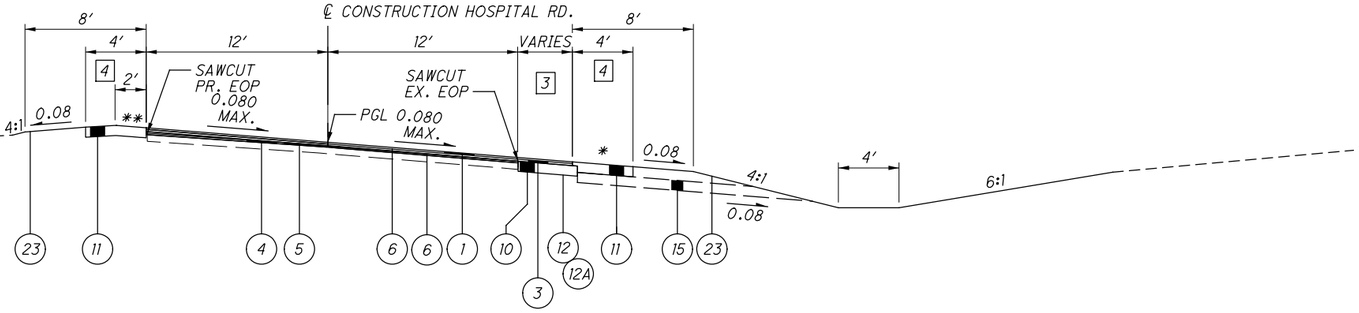
SEE INTERSECTION DETAIL SHEET 220 FOR PAVEMENT LAYOUT AT INTERSECTION WITH S.R. 207
HOSPITAL ROAD STA. 93+32.32 TO STA. 95+13.29



HOSPITAL ROAD NORTH OF S.R. 207, SUPERELEVATED SECTION (LEFT)
MILL AND OVERLAY OVERLAY
STA. 95+13.29 TO 98+22.17

* 0.06 OR RATE OF SUPER WHICHEVER IS GREATER

** REFER TO HIGH SIDE SHOULDER DETAILS SHOWN ON SHEET 3



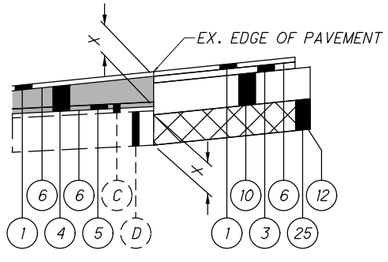
HOSPITAL ROAD NORTH OF S.R. 207, SUPERELEVATED SECTION (RIGHT)
MILL AND OVERLAY

STA. 98+22.17 TO 104+48.00

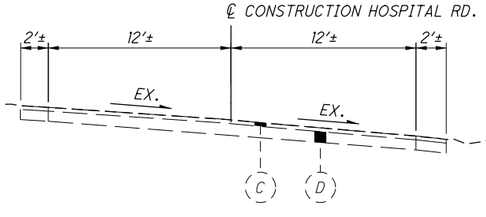
HOSPITAL ROAD WEDGING DETAIL

= VARIABLE DEPTH AGGREGATE BASE

X VARIES



HOSPITAL ROAD NORTH



1 WIDTH VARIES FROM 12.00' AT STA. 92+49.81 TO 19.85' AT STA, 93+32.32

2 WIDTH VARIES FROM 20.80' AT STA. 95+13.29 TO 12.00' AT STA 95+66.33
WIDTH IS 12.00' FROM STA. 95+66.33 TO STA. 97+88.00
WIDTH VARIES FROM 12.00' AT STA. 97+88.00 TO 11.38' AT STA. 98+22.17

3 WIDTH VARIES FROM 11.38' AT STA. 98+22.17 TO 0.00' AT STA 104+48.00

4 WIDTH VARIES FROM 4.00' AT STA. 103+98.00 TO 2.00' AT STA. 104+48.00

HOSPITAL ROAD (NORTH OF S.R. 207), EXISTING TYPICAL SECTION

TYPICAL SECTIONS - HOSPITAL ROAD

CALCULATED MJL
CHECKED DMV

ROS-207-0.00

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UTILITIES

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

AMERICAN ELECTRIC POWER (TRANSMISSION)
700 MORRISON ROAD
GAHANNA, OH 43230
CONTACT: MIKE CARR
PHONE: (614) 552-1893

SOUTH CENTRAL POWER COMPANY
P. O. BOX 250
LANCASTER, OH 43130
CONTACT: ZACHERY REED
PHONE: (740) 689-6150

FIBER OPTIC:
AT&T
7555 E. PLEASANT VALLEY RD.
SUITE 140
INDEPENDENCE, OHIO 44131
CONTACT: MIKE DIEDERICH
PHONE: (216) 750-0135

GAS:
COLUMBIA GAS OF OHIO
843 PIATT AVENUE
CHILLICOTHE, OH 45601
CONTACT: CARY MACLAUGHLIN
PHONE: (740) 774-8239

TELEPHONE:
HORIZON CHILLICOTHE TELEPHONE
P.O. BOX 480
CHILLICOTHE, OHIO 45601
CONTACT: JIM MITCHELL
PHONE: (740) 772-8264

WATER:
ROSS COUNTY WATER
P. O. BOX 1690
CHILLICOTHE, OH 45601
CONTACT: WILLIAM NEAL
PHONE: (740) 774-4117

CABLE:
CHARTER COMMUNICATIONS (FKA TIME WARNER CABLE)
32 ENTERPRISE DRIVE
CHILLICOTHE, OH 45601
CONTACT: JASON JACOBS
PHONE: (740) 648-3027

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.

ROUNDING

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

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO.17.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE TABLE BELOW FOR PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 2011
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONIC CONFORMAL
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH
COMBINED SCALE FACTOR: 1.000091278
ORIGIN OF COORDINATE
SYSTEM: 0,0

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

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

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

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.
THE CONTRACTOR SHALL COMPLETE TREE CLEARING ALONG SR 180 BY 11/01/2019 SO THAT SOUTH CENTRAL POWER CAN COMPLETE THEIR OVERHEAD UTILITY RELOCATION WORK.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	7	3	10

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8:00 P.M. AND 5:00 A.M. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PART-WIDTH CONSTRUCTION

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

FENCE LENGTHS

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

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. 67 FOR ADDITIONAL INFORMATION.
PROOF ROLLING - 17 HOURS

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 204.05.

   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 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 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 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 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.

PRIMARY PROJECT CONTROL INFORMATION

POINT NUMBER	STATION	OFFSET	SIDE	GRID COORDINATES U.S. SURVEY FEET		SCALED COORDINATES U.S. SURVEY FEET		ORTHOMETRIC HEIGHT	DESCRIPTION
				NORTHING	EASTING	NORTHING	EASTING	(ELEVATION)	
PHC01	214+58.57	1081.05	LT	518449.8510	1838740.7816	518497.1740	1838908.6180	685.664	ODOT TYPE "A" MONUMENT (SET)
PHC02	196+65.72	1696.12	RT	518548.8999	1836663.6132	518596.2320	1836831.2600	695.602	ODOT TYPE "A" MONUMENT (SET)
PHC03	164+00.00	28.00	RT	516020.5003	1833961.3985	516067.6016	1834128.7986	724.080	ODOT TYPE "A" MONUMENT (FOUND)
PHC04	173+00.80	46.91	RT	516253.2667	1834830.7209	516300.3892	1834998.2004	720.131	ODOT TYPE "A" MONUMENT (FOUND)
PHC07	222+71.28	3768.11	LT	520928.2563	1840643.8403	520975.8055	1840811.8504	688.176	ODOT TYPE "A" MONUMENT (FOUND)
PHC16	208+30.96	1906.22	RT	515323.4742	1838502.1637	515370.5118	1838669.9783	682.265	ODOT TYPE "A" MONUMENT (FOUND)

CALCULATED CLW CHECKED DMV

GENERAL NOTES

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CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

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

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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

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

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

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 152 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING AN FAA FORM 7460-1.

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

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-387-2346

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING 84,891 SQ. YD.

659, SEEDING AND MULCHING 59,061 SQ. YD. (ADDITIONAL AREA FROM PROPOSED ROADWAY GRADING LIMITS TO RIGHT-OF-WAY.)

659, TOPSOIL 15,979 CU. YD.

659, SOIL ANALYSIS TEST 2 EACH

659, REPAIR SEEDING AND MULCHING 7,198 SQ. YD

659, INTER-SEEDING 7,119 SQ. YD.

659, COMMERCIAL FERTILIZER 19.86 TON

659, LIME 29.42 ACRES

659, WATER 797 M. GAL.

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

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT. SEE SHEET 247 FOR ADDITIONAL DETAILS.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPER-ELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

611 - 6" CONDUIT, TYPE F 100 FT.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR,ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM 203 - GRANULAR MATERIAL, TYPE D, AS PER PLAN

IN THE AREA BETWEEN STATIONS 180+00 AND 181+50, AND STATION 198+00 AND 206+00, GRANULAR MATERIAL, TYPE D, AS SHOWN ON THE CROSS-SECTIONS, MAY BE PLACED BY THE METHOD OF END DUMPING IF SURFACE WATER IS PRESENT AT THE TIME OF CONSTRUCTION. END DUMPING METHODS MAY BE USED UP TO AN ELEVATION 2 FEET ABOVE THE WATER LEVEL. ABOVE THIS ELEVATION, EMBANKMENT CONSTRUCTION METHODS WILL BE IN ACCORDANCE WITH 203.05 TO 203.07 INCLUSIVE. DURING NORMAL CLEARING AND GRUBBING WHERE END DUMPING IS PERMITTED, THE REQUIREMENTS OF 201.04 FOR SCALPING SHALL BE WAIVED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 203, GRANULAR MATERIAL, TYPE D = 7,350 CU. YD.

CALCULATED CLW CHECKED DMV

GENERAL NOTES

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ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

GENERAL PROJECT INFORMATION

1) ODOT DISTRICT 9 PUBLIC INFORMATION OFFICER WILL ISSUE A PRESS RELEASE TO THE PUBLIC, EMERGENCY SERVICES AND THE LOCAL SCHOOLS IN ADVANCE OF THE START OF CONSTRUCTION.

ECOLOGICAL

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

SECTION 4(f)

1) THE CONTRACTOR SHALL MAINTAIN ACCESS TO KINNIKINNICK FEN NATURE PRESERVE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. SEE SHEET 113 FOR LOCAION OF KINNIKINNICK FEN NATURE PRESERVE PARCEL.

2) THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT KINNIKINNICK FEN NATURE PRESERVE AND THE PUBLIC.

3) THE CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE TO ALERT KINNIKINNICK FEN NATURE PRESERVE USERS TO CONSTRUCTION ACTIVITIES.

4) THE CONTRACTOR SHALL NOT STAGE OR STORE ANY CONSTRUCTION EQUIPMENT WITHIN THE KINNIKINNICK FEN NATURE PRESERVE BOUNDARY OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS.

5) THE CONTRACTOR SHALL COORDINATE THE PROJECT SCHEDULE WITH THE ROSS COUNTY PARK DISTRICT AND ODOT.

WATERWAY PERMITS

1) ODOT DISTRICT 9 WILL OBTAIN ALL APPROPRIATE WATERWAY PERMITS PRIOR TO PROJECT FILE FOR ANY WORK BELOW THE ODRINARY HIGH WATER MARK OF ANY WATERWAY. ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PROJECT PLANS.

MONUMENTS TO BE SET DURING CONSTRUCTION

STATION	OFFSET		PROJECT GROUND COORDINATES		R/W MONUMENTS	
	SIDE	DIST. (FT)	NORTHING (Y)	EASTING (X)	TYPE A	TYPE C
S.R. 207 180+00.00	RT	40.00	516488.07	1835671.77	1	
S.R. 207 185+00.00	RT	40.00	516617.51	1836154.73	1	
S.R. 207 190+00.00	RT	40.00	516746.96	1836637.68	1	
S.R. 207 195+00.00	RT	40.00	516876.40	1837120.64	1	
S.R. 207 200+75.00	RT	40.00	517025.25	1837676.04	1	
S.R. 207 205+00.00	RT	40.00	517143.28	1838085.84	1	
S.R. 207 208+88.75	RT	40.00	517264.47	1838456.62	1	
S.R. 207 215+00.00	RT	40.00	517383.16	1839043.55	1	
S.R. 207 220+00.00	RT	40.00	517362.12	1839533.39	1	
S.R. 207 221+00.00	CL	0.00	517384.37	1839637.93		1
S.R. 159 115+58.99	RT	20.00	516627.22	183978.74	1	
S.R. 159 116+46.80	CL	0.00	517114.58	1839783.46		1
S.R. 159 121+00.00	CL	0.00	517549.98	1839908.26		1
S.R. 159 124+60.48	RT	20.00	517885.56	1840046.06	1	
S.R. 159 133+07.95	RT	20.00	518709.27	1840244.38	1	
S.R. 159 135+55.95	RT	20.00	518950.20	1840303.21	1	
S.R. 159 140+04.35	CL	0.00	519400.76	1840305.53		1
S.R. 159 145+62.39	RT	20.00	519906.83	1840537.29	1	
S.R. 159 142+93.11	CL	0.00	519656.65	1840435.70		1
S.R. 180 241+13.97	RT	20.00	519543.18	1840710.78	1	
S.R. 180 244+02.40	RT	20.00	519639.80	1840980.28	1	
S.R. 180 239+00.00	CL	0.00	519505.11	1840498.09		1
TOTAL TO GENERAL SUMMARY					16	6

CALCULATED CLW CHECKED DMV

GENERAL NOTES

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SUGGESTED SEQUENCE OF CONSTRUCTION

S.R. 207, S.R. 159, S.R. 180 AND HOSPITAL ROAD MAY BE CONSTRUCTED CONCURRENTLY WHILE FOLLOWING THE SEQUENCE BELOW. THE PROPOSED PAVEMENT IN ALL PHASES SHALL BE CONSTRUCTED UP TO THE INTERMEDIATE COURSE PRIOR TO USING FOR MAINTAINING TRAFFIC.

S.R. 159 SOUTHERN ROUNDABOUT AND NORTHERN ROUNDABOUT AT S.R. 180 SEQUENCING

THE CONTRACTOR IS TO BUILD AS MUCH OF THE PROPOSED ROUNDABOUTS AS POSSIBLE WHILE NOT IMPACTING EXISTING TRAFFIC ON S.R. 159. AS CONSTRUCTION PROGRESSES AND EXISTING TRAFFIC IS TO BE IMPACTED, THE FOLLOWING SUGGESTED SEQUENCE HAS BEEN DEVELOPED TO MAINTAIN TRAFFIC TO COMPLETE THE REMAINING WORK.

PHASE 1:

CONSTRUCT A COMBINATION OF THE PROPOSED AND TEMPORARY EMBANKMENT NECESSARY FOR THE CONSTRUCTION OF THE TEMPORARY PAVEMENT. CONSTRUCT THE TEMPORARY PAVEMENT FROM STATION 108+47 TO STATION 127+55. TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS AND ADVANCED SIGNAGE PER SCD MT-97.10. ALL DROP-OFFS ARE TO BE PROTECTED PER SCD MT-101.90.

PHASE 1A:

CONSTRUCT A COMBINATION OF THE PROPOSED AND TEMPORARY EMBANKMENT NECESSARY FOR THE CONSTRUCTION OF THE TEMPORARY PAVEMENT. CONSTRUCT THE TEMPORARY PAVEMENT FROM STATION 134+04 TO STATION 140+74 AND FROM STATION 142+80 TO STATION 144+42. RECONSTRUCT THE DRIVE LOCATED AT STATION 143+82 AS DETAILED IN THE PLANS. TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS AND ADVANCED SIGNAGE PER SCD MT-97.10. ALL DROP-OFFS ARE TO BE PROTECTED PER SCD MT-101.90.

PHASE 2:

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING AND TEMPORARY PAVEMENT BUILT IN PHASE 1.

ERECT TRAFFIC CONTROL FOR PHASE 2.

CONSTRUCT THE WEST SIDE OF THE PAVEMENT ALONG S.R. 159 FROM STATION 110+35 TO STATION 114+25 AND FROM STATION 121+75 TO STATION 125+65. CONSTRUCT THE FULL PAVEMENT WIDTH BETWEEN STATIONS 114+25 AND 121+75 INCLUDING ANY OUTSTANDING WORK IN THE ROUNDABOUT AREA INCLUDING THE SPLITTER ISLANDS UP TO STATION 120+75. THE REMAINDER OF THE SPLITTER ISLAND WILL BE BUILT IN A LATER PHASE.

DO NOT BUILD THE PERMANENT SHOULDER BETWEEN STATIONS 110+35 AND 116+48 AND BETWEEN STATIONS 121+20 AND 125+65 AS THE TEMPORARY PAVEMENT BUILT IN THIS PHASE WILL BE LOCATED WITHIN THE SHOULDER LIMITS.

CONSTRUCT THE TEMPORARY PAVEMENT FROM STATION 108+43 TO STATION 116+48 AND FROM STATION 121+20 TO STATION 127+58.

PHASE 2A:

TRAFFIC SHALL BE MAINTAINED ON EXISTING AND TEMPORARY PAVEMENT BUILT IN PHASE 1A. A SIGNALIZED CLOSURE SHALL BE USED TO MAINTAIN TRAFFIC ON S.R. 159 AS SHOWN IN THE PLANS.

ERECT TRAFFIC CONTROL FOR PHASE 2A.

CONSTRUCT THE WEST SIDE OF S.R. 159 FROM STATION 136+70 TO STATION 138+00 AND FROM STATION 142+75 TO STATION 144+53.49. CONSTRUCT THE FULL PAVEMENT WIDTH BETWEEN STATIONS 138+00 AND 142+75 INCLUDING ANY OUTSTANDING WORK IN THE ROUNDABOUT AREA EXCLUDING THE PROPOSED SPLITTER ISLANDS. THE SPLITTER ISLANDS WILL BE CONSTRUCTED IN A LATER PHASE.

DO NOT BUILD THE PERMANENT SHOULDER BETWEEN STATIONS 136+70 AND 138+82 AND BETWEEN STATIONS 143+22 AND 144+39 AS THE TEMPORARY PAVEMENT BUILT IN THIS PHASE WILL BE LOCATED WITHIN THE SHOULDER LIMITS.

INSTALL THE STORM SYSTEM LOCATED AT STATION 142+42.

CONSTRUCT THE TEMPORARY PAVEMENT FROM STATION 135+13 TO STATION 138+82 AND FROM STATION 143+22 TO STATION 144+39.

PHASE 3:

TRAFFIC SHALL BE MAINTAINED ON THE PROPOSED AND TEMPORARY PAVEMENT THAT WAS BUILT IN PHASE 2.

ERECT TRAFFIC CONTROL FOR PHASE 3.

CONSTRUCT THE EAST SIDE OF S.R. 159 FROM STATION 110+35 TO STATION 114+25 AND FROM STATION 121+75 TO STATION 125+65. COMPLETE THE PROPOSED DRIVES AS WELL AS ANY REMAINING ROADSIDE GRADING ON THE EAST SIDE OF S.R. 159 THAT WAS NOT COMPLETED IN THE PREVIOUS PHASE.

PHASE 3A:

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING, PROPOSED AND TEMPORARY PAVEMENT BUILT IN PHASE 2A. A SIGNALIZED CLOSURE SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE ROUNDABOUT AS SHOWN IN THE PLANS.

ERECT THE TRAFFIC CONTROL FOR PHASE 3A.

CONSTRUCT THE EAST SIDE OF S.R. 159 FROM STATION 136+70 TO STATION 138+00 AND FROM STATION 142+75 TO STATION 144+53.49 INCLUDING ALL DRIVES AND DRIVE PIPES AS INDICATED. COMPLETE THE REMAINING ROADSIDE GRADING ON THE EAST SIDE OF S.R. 159 THAT WAS NOT COMPLETED IN THE PREVIOUS PHASE.

THIS CONSTRUCTION MAY BE COMPLETED CONCURRENT WITH PHASE 3B.

PHASE 3B:

THRU TRAFFIC ON S.R. 180 WILL BE DETOURED. INGRESS AND EGRESS SHALL BE MAINTAINED TO EXISTING PROPERTIES AT ALL TIMES.

ERECT DETOUR ROUTE FOR S.R. 180 AS SHOWN ON SHEET 47.

CONSTRUCT ALL PROPOSED IMPROVEMENTS ALONG S.R. 180. THIS CONSTRUCTION MAY BE COMPLETED CONCURRENT WITH PHASE 3A.

PHASE 4:

THIS PHASE TO BE COMPLETED WHILE S.R. 180 IS STILL DETOURED. TWO-LANE, TWO-WAY TRAFFIC TO BE MAINTAINED ALONG S.R. 159 ON THE PROPOSED PAVEMENT AND THROUGH BOTH ROUNDABOUTS. CIRCULATING TRAFFIC IS PERMITTED ON THE SOUTHERN ROUNDABOUT.

ERECT TRAFFIC CONTROL FOR PHASE 4.

CONSTRUCT THE CONCRETE SPLITTER ISLANDS ON THE NORTHERN ROUNDABOUT ON S.R. 159.

THROUGH THE USE OF FLAGGERS PER SCD MT-97.10, CONSTRUCT THE REMAINDER OF THE SPLITTER ISLAND ON THE SOUTHERN ROUNDABOUT FROM STATION 120+75 TO STATION 121+40.

PHASE 4A:

THROUGH THE USE OF FLAGGERS AND ADVANCED SIGNAGE PER SCD MT-97.12 CONSTRUCT THE TIE IN ALONG S.R. 159 FROM STATION 133+96.80 TO STATION 136+70. COMPLETE THE CONSTRUCTION TO THE TOP OF THE INTERMEDIATE COURSE. COMPLETE THE CONSTRUCTION OF THE REMAINING DRIVES ALONG S.R. 159. ALL DROP-OFFS ARE TO BE PROTECTED PER SCD MT-101.90.

PHASE 5:

AFTER CONSTRUCTION IS COMPLETED ON S.R. 159 AND S.R. 180, OPEN ALL LANES UP TO TRAFFIC. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM THE PREVIOUS PHASES INCLUDING TEMPORARY PAVEMENT. COMPLETE ANY OUTSTANDING WORK INCLUDING CONSTRUCTING THE REMAINDER OF THE PROPOSED SHOULDER, PLACING THE FINAL SURFACE COURSE, PAVEMENT MARKINGS AND PERMANENT TRAFFIC CONTROL DEVICES. TRAFFIC TO BE MAINTAINED PER THE REQUIREMENTS IN THE STANDARD DRAWINGS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

HOSPITAL ROAD / EX. S.R. 207 SEQUENCING

PHASE 6:

MAINTAIN TWO WAY TRAFFIC, MINIMUM, ON EXISTING PAVEMENT THROUGH THE USE OF FLAGGERS AND ADVANCED SIGNAGE PER SCD MT-97.12 AND PER TA- 27 IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

MILL OUT THE EXISTING PAVEMENT TO THE DEPTHS NEEDED ALONG S.R. 207 FROM STATION 171+00 TO STATION 175+58 AND ALONG HOSPITAL ROAD. BUILD PAVEMENT UP THROUGH THE INTERMEDIATE COURSE INCLUDING THE ASPHALT WEDGE ALONG S.R. 207 FROM STATION 171+00 TO STATION 175+58, ALONG HOSPITAL ROAD FROM STATION 78+46 TO STATION 89+00 AND FROM STATION 94+63 TO STATION 104+48.

CONSTRUCT TEMPORARY PAVEMENT FROM STATION 79+00 TO STATION 91+30 AND FROM STATION 94+67 TO STATION 106+68.

PHASE 7:

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING AND TEMPORARY PAVEMENT BUILT IN PHASE 6.

ERECT TRAFFIC CONTROL FOR PHASE 7.

CONSTRUCT THE WIDENING ON THE EAST SIDE OF HOSPITAL ROAD FROM STATION 78+46 TO STATION 89+00 AND FROM STATION 94+63 TO STATION 104+48. CONSTRUCT THE PROPOSED IMPROVEMENTS ON THE EAST SIDE OF HOSPITAL ROAD FROM STATION 89+00 TO STATION 94+51.30. DO NOT BUILD THE PERMANENT SHOULDER BETWEEN STATIONS 78+46 AND 79+56, 87+90 AND 93+92 AND BETWEEN STATIONS 103+39 AND 104+48 AS THE TEMPORARY PAVEMENT BUILT IN THIS PHASE WILL BE LOCATED WITHIN THE SHOULDER LIMITS.

CONSTRUCT THE TEMPORARY PAVEMENT FROM STATION 78+46 TO STATION 79+56, FROM STATION 87+90 TO STATION 93+92 AND FROM STATION 103+39 TO STATION 106+68.

PHASE 8:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE PAVEMENT BUILT IN PHASE 6 AND THE PROPOSED AND TEMPORARY PAVEMENT BUILT IN PHASE 7.

ERECT TRAFFIC CONTROL FOR PHASE 8.

CONSTRUCT THE WIDENING ON THE WEST SIDE OF HOSPITAL ROAD FROM STATION 78+46 TO STATION 89+00 AND FROM STATION 94+63 TO STATION 104+48. CONSTRUCT THE PROPOSED IMPROVEMENTS ON THE WEST SIDE OF HOSPITAL ROAD FROM STATION 89+00 TO STATION 94+03. CONSTRUCT THE PROPOSED SHOULDERS ON BOTH SIDES OF SR 207.

PHASE 9:

AFTER CONSTRUCTION IS COMPLETED ON HOSPITAL ROAD AND S.R. 207, OPEN ALL LANES UP TO TRAFFIC. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM THE PREVIOUS PHASES INCLUDING TEMPORARY PAVEMENT. COMPLETE ANY OUTSTANDING WORK INCLUDING CONSTRUCTING THE REMAINDER OF THE PROPOSED SHOULDER, GRADING WORK, PLACING THE FINAL SURFACE COURSE, PAVEMENT MARKINGS AND PERMANENT TRAFFIC CONTROL DEVICES. TRAFFIC TO BE MAINTAINED PER THE REQUIREMENTS IN THE STANDARD DRAWINGS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

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ITEM 614 - MAINTAINING TRAFFIC

NO MAINENANCE OF TRAFFIC IMPACTS TO THE EXISTING TRAFFIC ON HOSPITAL ROAD, CR 207, SR 159 OR SR 180 SHALL BR EXECUTED PRIOR TO APRIL 1, 2020, UNLESS APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER IN ADVANCE. BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS PER DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 - ROADS FOR MAINTAINING TRAFFIC, TEMPORARY SURFACES USING ITEMS 410 AND 614 AND THE TEMPORARY TRAFFIC SIGNAL.

ALONG S.R. 180, A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 30 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 47. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

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

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

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

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

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

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

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES AS NEEDED.

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

INGRESS AND EGRESS

INGRESS AND EGRESS FOR ALL DRIVES SHALL BE MAINTAINED AS PER ODOT CMS 614.02(A). NOTIFICATION SHALL BE GIVEN TO ADJOINING PROPERTIES A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF ACCESS INTERRUPTIONS. **THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGHT DISTANCE AT THE PRIVATE DRIVES.**

ANY COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO MAINTAIN ACCESS.

THE FOLLOWING CONTINGENCY HAS BEEN ADDED TO THE PLANS TO BE USED AS DIRECTED BY THE ENGINEER FOR MAINTAINING ACCESS TO LOCAL DRIVES DURING CONSTRUCTION:

ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE A OR B_____50 CY

ITEM 616 - WATER_____ 50 M GAL

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

ITEM 614 - REPLACEMENT SIGN

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

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

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACK-FILLED AT THE DIRECTION OF THE ENGINEER.

DUST CONTROL

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

ITEM 616 - WATER_____ 472 M GAL

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE VIA SULPHUR SPRINGS ROAD AND SNYDER ROAD HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 301 - 4" ASPHALT CONCRETE BASE, PG 64-22_____ 62 CY

ITEM 304 - 6" AGGREGATE BASE_____ 93 CY

ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22_____ 20 CY

ITEM 407 - TACK COAT_____ 31 GAL

ITEM 614 - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614 - REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

EARTHWORK FOR MAINTAINING TRAFFIC

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

EXCAVATION FOR MAINTAINING TRAFFIC_____.734 CY
EMBANKMENT FOR MAINTAINING TRAFFIC_____1392 CY

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

FLOODLIGHTING

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

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

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

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

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

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

ITEM 614 - BARRIER REFLECTOR, TYPE 3, BIDIRECTIONAL _____ 10 EACH

ITEM 614 - OBJECT MARKER, TWO-WAY _____.10 EACH

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

CALCULATED SLP CHECKED ALB

MAINTENANCE OF TRAFFIC GENERAL NOTES

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ITEM 614 - WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)

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

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

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

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

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

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

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

DELINEATION OF PORTABLE AND PERMANENT BARRIER

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

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

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

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

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

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

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

ITEM 614 - BARRIER REFLECTOR, TYPE 1,
BIDIRECTIONAL _ _ _ _ _ _ _ _ _ _ _ _ _ _ _217 EACH

ITEM 614 - OBJECT MARKER, TWO-WAY _ _ _ _ _ _ _ _ 217 EACH

ITEM 614 - INCREASED BARRIER DELINEATION_ _ _ _ 3540 FEET

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

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

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN IN PHASES 2A AND 3A AND TRAFFIC SCDS MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

ROS-207-0.00 PHASE 2A			
	S.R. 159 NORTHBOUND	S.R. 159 SOUTHBOUND	S.R. 180 WESTBOUND
MAX. GREEN	40	40	25
EXTENSION	4	4	4
MIN. GREEN	20.0	20.0	15.0
YELLOW	5	5	5
ALL RED	21	21	21

ROS-207-0.00 PHASE 3A		
	S.R. 159 NORTHBOUND	S.R. 159 SOUTHBOUND
MAX. GREEN	40	40
EXTENSION	4	4
MIN. GREEN	20.0	20.0
YELLOW	5	5
ALL RED	21	21

SIGNALS WILL REST ON RED WHEN NO VEHICLES ARE DETECTED.

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

EXISTING SIGNS

THE CONTRACTOR SHALL COVER ANY EXISTING SIGN THAT IS IN CONFLICT WITH THE PROPOSED PHASING.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

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

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

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

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

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

MAINTAINING TRAFFIC ON A MILLED SURFACE

THE CONTRACTOR MUST LIMIT MAINTAINING TRAFFIC ON A MILLED SURFACE TO 21 DAYS.

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

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

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

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

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN,
AS PER PLAN 24 SIGN MONTH
ASSUMING 2 PCMS SIGNS FOR 12 MONTHS

PROBABLE PCMS LOCATIONS:

- ON NORTHBOUND U.S. 23 1-MILE IN ADVANCE OF THE U.S. 23/S.R. 159 INTERCHANGE

- ON SOUTHBOUND US. 23 1-MILE IN ADVANCE OF THE U.S. 23/S.R. 207 INTERCHANGE

ITEM SPECIAL - WORK ZONE GUARDRAIL

THE GUARDRAIL SHALL MEET THE REQUIREMENTS OF ITEM 606 IN THE CMS.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK INCLUDING DISPOSAL. PAYMENT FOR ALL WORK WILL BE INCLUDED IN THE PRICE BID PER ITEM SPECIAL - WORK ZONE GUARDRAIL.

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NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

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

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

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

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

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

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

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

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

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

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

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE_ _ _ _ _ _ _ _ _ _ _ _ _ _ 80 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

CALCULATED SLP CHECKED ALB

MAINTENANCE OF TRAFFIC GENERAL NOTES

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REF. NO.	STATION TO STATION FROM	TO	SIDE	614 WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL) EACH	614 DETOUR SIGNING LS	614 WORK ZONE CENTER LINE, CLASS I MILE	614 WORK ZONE EDGE LINE, CLASS I, 4", WHITE MILE	614 WORK ZONE EDGE LINE, CLASS I, 4", YELLOW MILE	614 WORK ZONE STOP LINE, CLASS I FT	614 SPECIAL - WORK ZONE GUARDRAIL FT	615 ROADS FOR MAINTAINING TRAFFIC LS	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (PAVEMENT) SY	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (AGGREGATE SHOULDER) SY	622 PORTABLE BARRIER, 32" FT
	PHASE 1 - S.R. 159													
TP-1	108+47	127+55	RT								LS	2705.93	423.08	
	PHASE 1A - S.R. 159													
TP-1	134+04	140+74	RT								LS	288.53	149.04	
TP-2	142+80	144+42	RT								LS	51.48	38.08	
	PHSE 2 - S.R. 159													
CL-1	107+84	113+00	RT			0.10								
CL-2	113+00	118+00	RT			0.10								
CL-3	118+00	123+00	RT			0.09								
CL-4	123+00	128+18	RT			0.09								
EW-1	107+84	113+00	LT/RT				0.10							
EW-2	108+47	113+00	RT				0.09							
EW-3	113+00	118+00	RT				0.10							
EW-4	113+00	118+00	RT				0.10							
EW-5	118+00	123+00	RT				0.09							
EW-6	118+00	123+00	RT				0.09							
EW-7	123+00	127+55	RT				0.09							
EW-8	123+00	128+18	RT				0.10							
IA-1	108+18		RT	1										
IA-2	110+07		RT	1										
IA-3	109+34		LT	1										
IA-4	111+00		RT	1										
IA-5	123+48		RT	1										
IA-6	123+87		RT	1										
IA-7	126+56		RT	1										
IA-8	127+10		LT	1										
PB-1	108+18	110+07	RT											190
PB-2	109+34	113+00	LT/RT											366.72
PB-3	111+00	113+00	RT											201.83
PB-4	113+00	118+00	RT											511.37
PB-5	113+00	118+00	RT											515.40
PB-6	118+00	123+00	RT											481.28
PB-7	118+00	123+00	RT											473.41
PB-8	123+00	123+48	RT											49.36
PB-9	123+87	126+56	RT											270
PB-10	123+00	127+10	LT/RT											410.63
TP-1	108+43	116+48	LT								LS	913.30	177.95	
TP-2	121+20	127+58	LT								LS	757.35	141.04	
	PHASE 2A - S.R. 159													
CL-1	133+34	137+00	RT			0.07								
CL-2	137+00	104+25	RT			0.06								
EW-1	132+79	137+00	LT/RT				0.08							
EW-2	134+04	137+00	RT				0.06							
EW-3	137+00	140+74	RT				0.07							
EW-4	137+00	142+50	RT				0.10							
EW-5	142+80	145+99	RT				0.06							
EW-6	142+50	145+99	LT/RT				0.07							
TOTALS CARRIED TO SHEET 26				8	0	0.51	1.20	0	0	0	LS	4716.59	929.19	3470

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OFFICE OF TRAFFIC SUBSUMMARY MAINTENANCE

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REF. NO.	STATION TO STATION		SIDE	614							615			622							
				WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	DETOUR SIGNING	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4", WHITE	WORK ZONE EDGE LINE, CLASS I, 4", YELLOW	WORK ZONE STOP LINE, CLASS I	SPECIAL - WORK ZONE GUARDRAIL	ROADS FOR MAINTAINING TRAFFIC	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (PAVEMENT)	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (AGGREGATE SHOULDER)	PORTABLE BARRIER, 32"						
	FROM	TO		EACH	LS	MILE	MILE	MILE	FT	FT	LS	SY	SY	FT						
	PHASE 2A - S.R. 159																				
IA-1	135+13		LT	1																	
IA-2	145+93		LT	1																	
PB-1	135+13	137+00	LT/RT											187.57							
PB-2	137+00	142+50	RT											521.96							
PB-3	142+50	145+93	RT											350.47							
SL-1	104+25		RT						10												
SL-2	238+91 (S.R. 180)		RT						11.42												
SL-3	146+56		LT						11.26												
TP-1	135+13	138+82	LT								LS	383.33	82.99								
TP-2	143+22	144+39	LT								LS	24.95	24.23								
	PHASE 3 - S.R. 159																				
CL-1	107+81	113+00	LT/RT			0.10															
CL-2	114+95	116+00	LT			0.02															
CL-3	113+00	116+00	LT/RT			0.06															
CL-4	120+75	121+62	LT			0.02															
CL-5	120+75	123+00	LT/RT			0.04															
CL-6	123+00	128+18	LT/RT			0.10															
EW-1	107+84	113+00	LT				0.10														
EW-2	107+81	113+00	LT/RT				0.10														
EW-3	113+00	117+35	LT				0.08														
EW-4	113+00	117+38	LT/RT				0.08														
EW-5	120+04	123+00	LT				0.06														
EW-6	120+08	123+00	LT/RT				0.06														
EW-7	123+00	128+18	LT				0.10														
EW-8	123+00	128+18	LT/RT				0.10														
EY-1	116+00	118+01	LT					0.04													
EY-2	116+00	118+01	RT					0.04													
EY-3	119+41	120+75	LT					0.03													
EY-4	119+41	120+75	RT					0.03													
IA-1	108+47		RT	1																	
IA-2	110+16		LT	1																	
IA-3	111+39		LT	1																	
IA-4	120+90		RT	1																	
IA-5	123+18		LT	1																	
IA-6	124+35		LT	1																	
IA-7	127+34		RT	1																	
PB-1	108+47	110+16	LT/RT											170							
PB-2	111+39	113+00	LT											160.45							
PB-3	113+00	115+98	LT/RT											299.55							
PB-4	120+90	123+00	LT/RT											202.35							
PB-5	123+00	123+18	LT											17.65							
PB-6	124+35	127+34	LT/RT											300							
	PHASE 3A - S.R. 159																				
CL-1	133+34	137+00	LT			0.07															
CL-2	137+00	138+40	LT			0.03															
EW-1	133+86	137+00	LT/RT				0.06														
EW-2	132+79	137+00	LT				0.08														
TOTALS CARRIED TO SHEET 26				9	0	0.44	0.82	0.14	32.68	0	LS	408.28	107.22	2210							

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC SUBSUMMARY

ROS-207-0.00

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REF. NO.	STATION TO STATION		SIDE	614							615			622							
				WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	DETOUR SIGNING	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4", WHITE	WORK ZONE EDGE LINE, CLASS I, 4", YELLOW	WORK ZONE STOP LINE, CLASS I	SPECIAL - WORK ZONE GUARDRAIL	ROADS FOR MAINTAINING TRAFFIC	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (PAVEMENT)	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (AGGREGATE SHOULDER)	PORTABLE BARRIER, 32"						
	FROM	TO		EACH	LS	MILE	MILE	MILE	FT	FT	LS	SY	SY	FT						
	PHASE 3A - S.R. 159																			
EW-3	137+00	139+75	LT				0.05													
EW-4	137+00	139+50	LT/RT				0.04													
EW-5	139+96	142+50	LT/RT				0.06													
EW-6	142+50	145+99	LT/RT				0.07													
EW-7	143+00	145+80	LT				0.06													
EY-1	138+40	140+74	LT					0.04												
EY-2	138+40	140+74	LT/RT					0.05												
IA-1	137+40		LT	1																
IA-2	138+00		LT	1																
IA-3	142+51		LT	1																
IA-4	146+01		RT	1																
PB-1	137+40	138+00	LT											50						
PB-2	142+51	146+01	LT/RT											350						
SL-1	140+74		LT						10											
	PHASE 3B - S.R. 180																			
	237+47	245+05	LT/RT		LS															
	PHASE 6 - HOSPITAL ROAD																			
TP-1	79+00	91+30	LT								LS	599.79	269.34							
TP-2	94+67	106+68	LT								LS	455.86	267.34							
	PHASE 7 - HOSPITAL ROAD																			
CL-1	76+31	81+00	LT/RT			0.09														
CL-2	81+00	86+00	LT			0.09														
CL-3	86+00	91+00	LT			0.09														
CL-4	91+00	93+77	LT			0.05														
CL-5	95+02	96+00	LT			0.02														
CL-6	174+00 (S.R. 207)	174+97 (S.R. 207)	LT			0.02														
CL-7	174+00 (S.R. 207)	174+50 (S.R. 207)	RT			0.01														
CL-8	171+00 (S.R. 207)	174+00 (S.R. 207)	LT			0.06														
CL-9	171+00 (S.R. 207)	174+00 (S.R. 207)	LT/RT			0.06														
CL-10	96+00	101+00	LT			0.09														
CL-11	101+00	106+68	LT/RT			0.11														
EW-1	76+31	81+00	LT				0.09													
EW-2	76+31	81+00	RT				0.09													
EW-3	81+00	86+00	LT				0.09													
EW-4	81+00	86+00	RT				0.09													
EW-5	86+00	91+00	LT				0.09													
EW-6	86+00	91+00	LT/RT				0.09													
EW-7	91+00	174+00 (S.R. 207)	LT/RT				0.08													
EW-8	91+00	96+00	LT				0.09													
EW-9	174+00 (S.R. 207)	96+00	LT				0.05													
EW-10	171+00 (S.R. 207)	174+00 (S.R. 207)	LT				0.06													
EW-11	171+00 (S.R. 207)	174+00 (S.R. 207)	RT				0.06													
EW-12	96+00	101+00	LT/RT				0.09													
EW-13	96+00	101+00	LT				0.09													
EW-14	101+00	106+68	RT				0.11													
EW-15	101+00	106+68	LT				0.11													
GR-1	175+06 (S.R. 207)	95+58	LT							100										
	TOTALS CARRIED TO SHEET 26			4	LS	0.69	1.56	0.09	10	100	LS	1055.65	536.68	400						

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC SUBSUMMARY

ROS-207-0.00

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REF. NO.	STATION TO STATION		SIDE	614							615			622							
	FROM	TO		WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	DETOUR SIGNING	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4", WHITE	WORK ZONE EDGE LINE, CLASS I, 4", YELLOW	WORK ZONE STOP LINE, CLASS I	SPECIAL - WORK ZONE GUARDRAIL	ROADS FOR MAINTAINING TRAFFIC	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (PAVEMENT)	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (AGGREGATE SHOULDER)	PORTABLE BARRIER, 32"							
				EACH	LS	MILE	MILE	MILE	FT	FT	LS	SY	SY	FT							
	PHASE 7 - HOSPITAL ROAD																				
IA-1	77+75		RT	1																	
IA-2	83+10		RT	1																	
IA-3	83+96		RT	1																	
IA-4	95+58		LT	1																	
IA-5	104+99		RT	1																	
PB-1	77+75	81+00	RT											321.43							
PB-2	81+00	83+10	RT											208.57							
PB-3	83+96	86+00	RT											203.70							
PB-4	86+00	91+00	LT/RT											497.43							
PB-5	91+00	96+00	LT											493.33							
PB-6	96+00	101+00	RT											500.77							
PB-7	101+00	104+99	RT											394.77							
SL-1	93+77		LT						10												
SL-2	174+97 (S.R. 207)		LT/RT						12												
SL-3	95+02		LT						10												
TP-1	78+46	79+56	RT								LS	11.87	36.18								
TP-2	87+90	93+92	RT								LS	179.47	140.59								
TP-3	103+39	106+68	RT								LS	33.53	58.66								
	PHASE 8 - HOSPITAL ROAD																				
CL-1	76+31	81+00	RT			0.09															
CL-2	81+00	86+00	RT			0.09															
CL-3	86+00	91+00	RT			0.10															
CL-4	91+00	93+57	RT			0.05															
CL-5	174+97 (S.R. 207)	175+44 (S.R. 207)	LT			0.01															
CL-6	95+01	96+00	RT			0.02															
CL-7	96+00	101+00	RT			0.09															
CL-8	101+00	106+68	RT			0.11															
EW-1	76+31	81+00	LT				0.09														
EW-2	76+31	81+00	RT				0.09														
EW-3	81+00	86+00	LT/RT				0.09														
EW-4	81+00	86+00	RT				0.09														
EW-5	86+00	91+00	RT				0.10														
EW-6	86+00	91+00	RT				0.10														
EW-7	91+00	174+92 (S.R. 207)	RT				0.08														
EW-8	91+00	93+92	RT				0.06														
EW-9	95+66	96+00	RT				0.01														
EW-10	174+90 (S.R. 207)	96+00	LT				0.04														
EW-11	96+00	101+00	RT				0.09														
EW-12	96+00	101+00	RT				0.09														
EW-13	101+00	106+68	LT				0.11														
EW-14	101+00	106+68	RT				0.11														
TOTALS CARRIED TO SHEET26				5	0	0.56	1.15	0	32	0	LS	224.87	235.43	2620							

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC SUBSUMMARY

ROS-207-0.00

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REF. NO.	STATION TO STATION		SIDE	614							615			622							
				WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	DETOUR SIGNING	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4", WHITE	WORK ZONE EDGE LINE, CLASS I, 4", YELLOW	WORK ZONE STOP LINE, CLASS I	SPECIAL - WORK ZONE GUARDRAIL	ROADS FOR MAINTAINING TRAFFIC	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (PAVEMENT)	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B (AGGREGATE SHOULDER)	PORTABLE BARRIER, 32"						
	FROM	TO		EACH	LS	MILE	MILE	MILE	FT	FT	LS	SY	SY	FT						
	PHASE 8 - HOSPITAL ROAD																			
IA-1	77+86		LT	1																
IA-2	93+68		RT	1																
IA-3	102+12		LT	1																
IA-4	103+49		LT	1																
IA-5	104+88		LT	1																
PB-1	77+86	81+00	LT											317.48						
PB-2	81+00	86+00	LT/RT											500.65						
PB-3	86+00	91+00	RT											501.19						
PB-4	91+00	93+68	RT											270.68						
PB-5	98+83	101+00	LT											217.70						
PB-6	101+00	102+12	LT											112.30						
PB-7	103+49	104+88	LT											140.00						
SL-1	93+57		RT						11.73											
SL-2	175+44 (S.R. 207)		LT/RT						12											
SL-3	95+01		RT						10											
TOTALS THIS SHEET				5	0	0	0	0	33.73	0	0	0	0	2060						
TOTALS FROM SHEET 22				8	0	0.51	1.20	0	0	0	LS	4716.59	929.19	3470						
TOTALS FROM SHEET 23				9	0	0.44	0.82	0.14	32.68	0	LS	408.28	107.22	2210						
TOTALS FROM SHEET 24				4	LS	0.69	1.56	0.09	10	100	LS	1055.65	536.68	400						
TOTALS FROM SHEET 25				5	0	0.56	1.15	0	32	0	LS	224.87	235.43	2620						
SUBTOTALS				31	LS	2.20	4.73	0.23	108.41	100	0	6405.39	1808.52	10760						
TOTALS CARRIED TO GENERAL SUMMARY				31	LS	2.20	4.96		109	100	LS	8214		10760						

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC SUBSUMMARY

ROS-207-0.00

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LEGEND

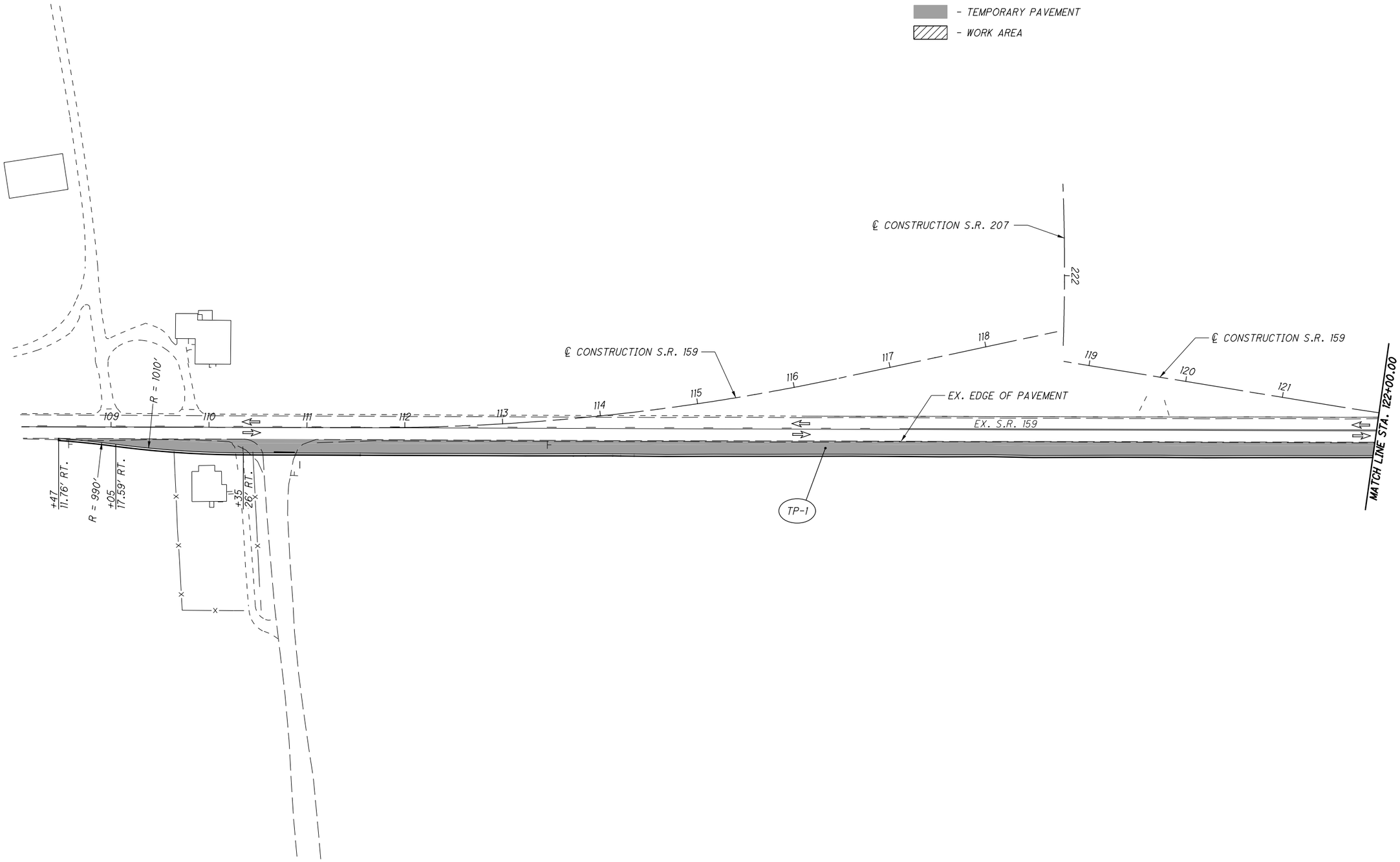
⊤ - PROPOSED SIGN

⇒ - DIRECTION OF TRAVEL

- TEMPORARY PAVEMENT

- WORK AREA

(TP) - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



NOTES:
MAINTAIN TRAFFIC PER SCD MT-97.10
WHILE PLACING THE TEMPORARY PAVEMENT.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 1

ROS-207-0.00

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LEGEND

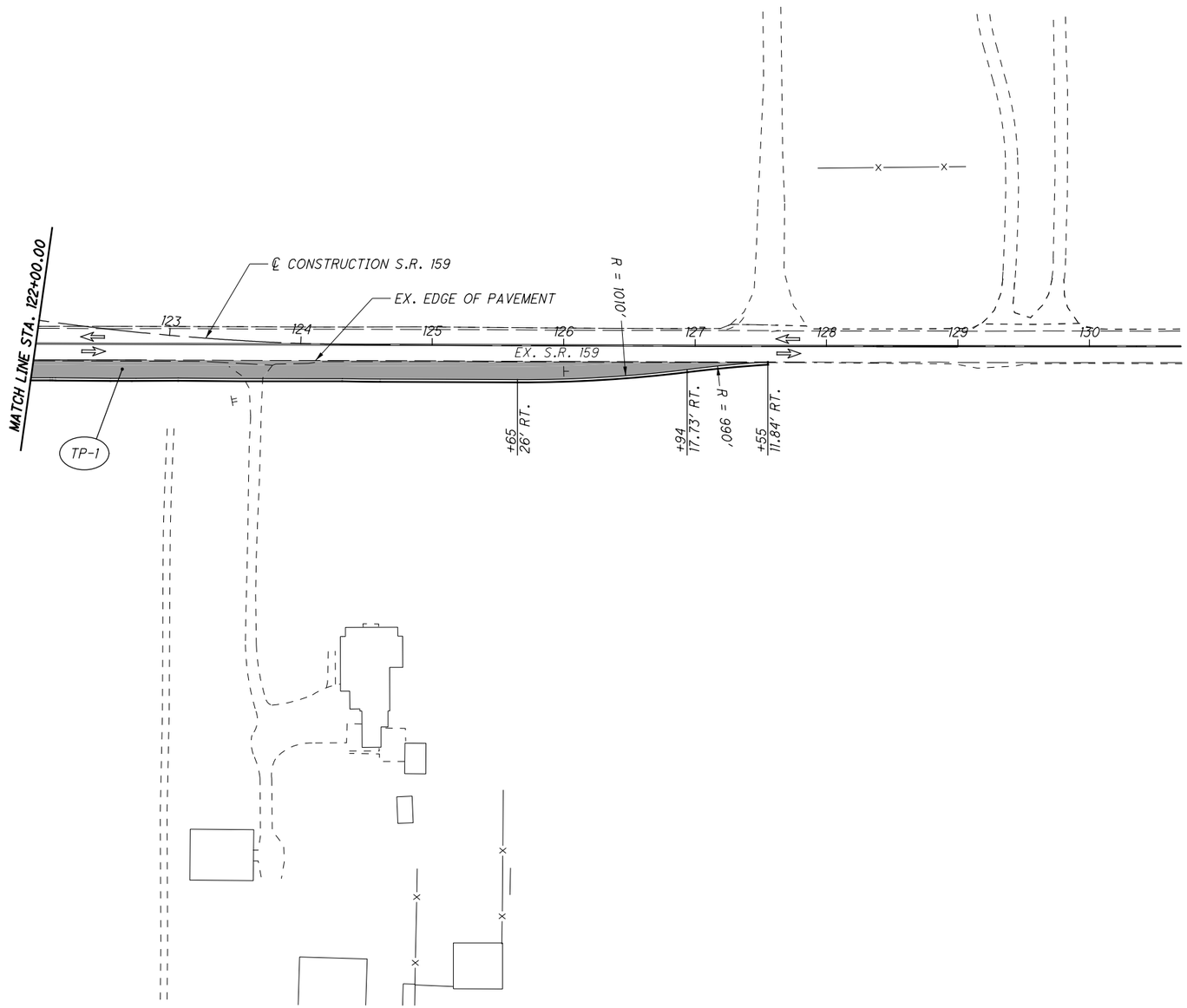
⊢ - PROPOSED SIGN

(TP) - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

⇒ - DIRECTION OF TRAVEL

- TEMPORARY PAVEMENT

- WORK AREA



NOTES:
MAINTAIN TRAFFIC PER SCD MT-97.10
WHILE PLACING THE TEMPORARY PAVEMENT.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 1

ROS-207-0.00

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LEGEND

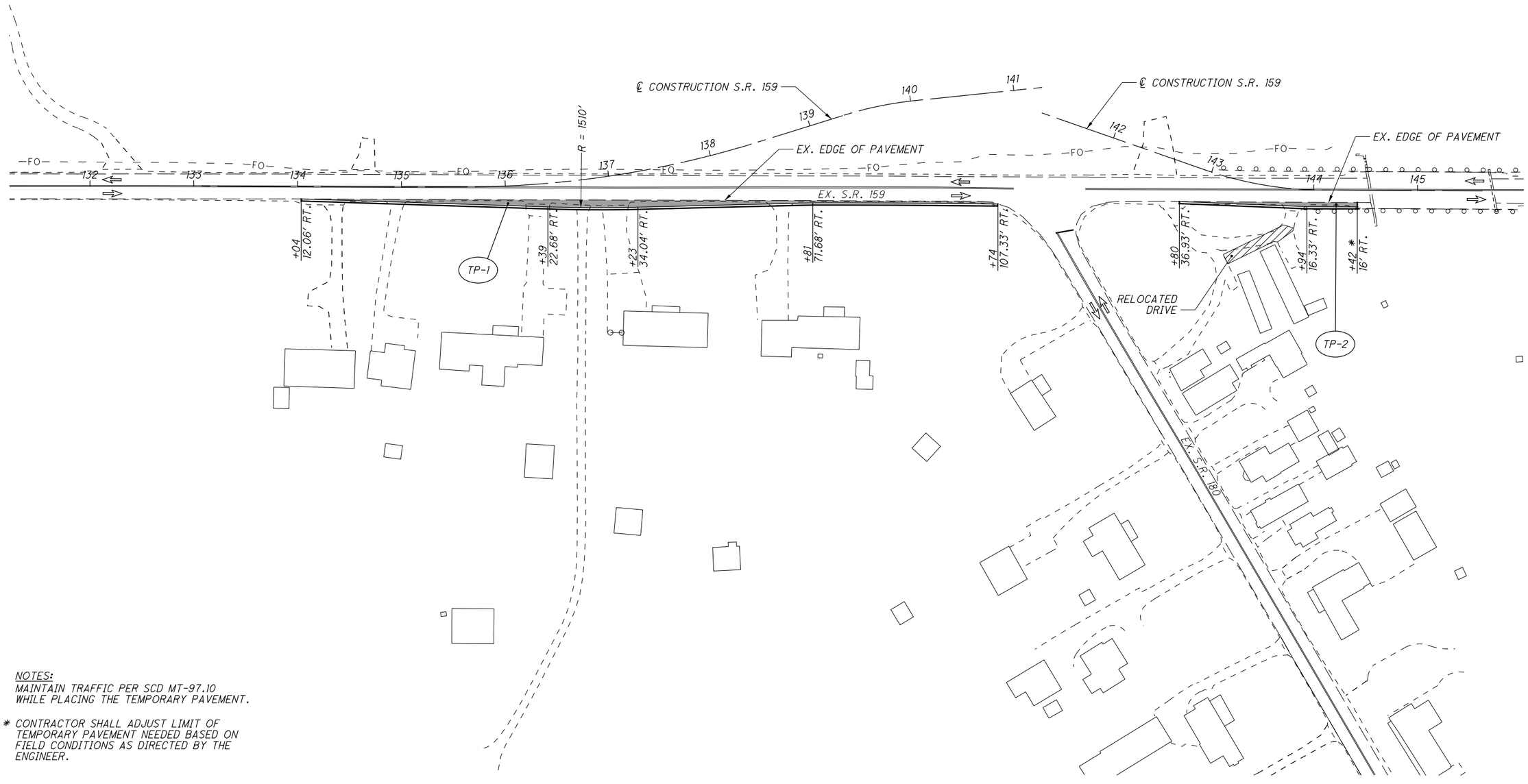
⊤ - PROPOSED SIGN

TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

⇒ - DIRECTION OF TRAVEL

- TEMPORARY PAVEMENT

- WORK AREA



NOTES:

MAINTAIN TRAFFIC PER SCD MT-97.10 WHILE PLACING THE TEMPORARY PAVEMENT.

* CONTRACTOR SHALL ADJUST LIMIT OF TEMPORARY PAVEMENT NEEDED BASED ON FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

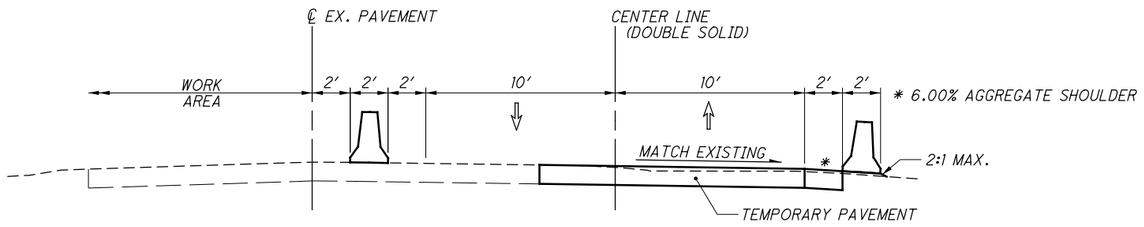
HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 1A

ROS-207-0.00

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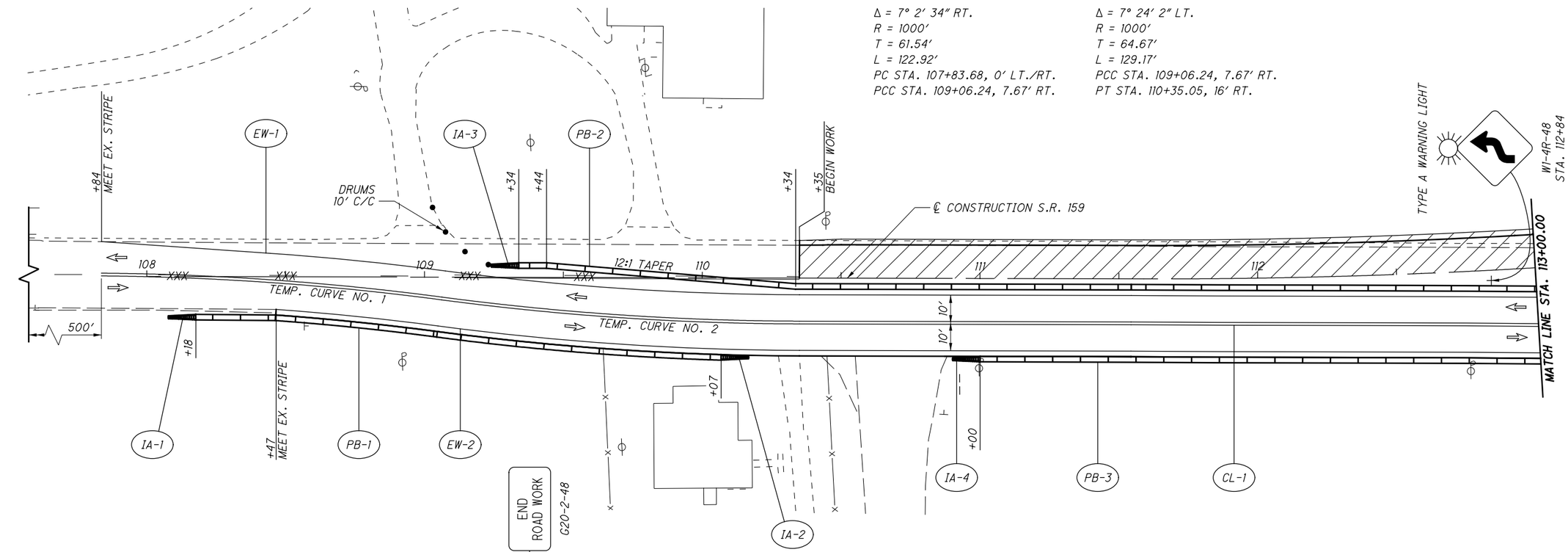
LANE USE DETAIL

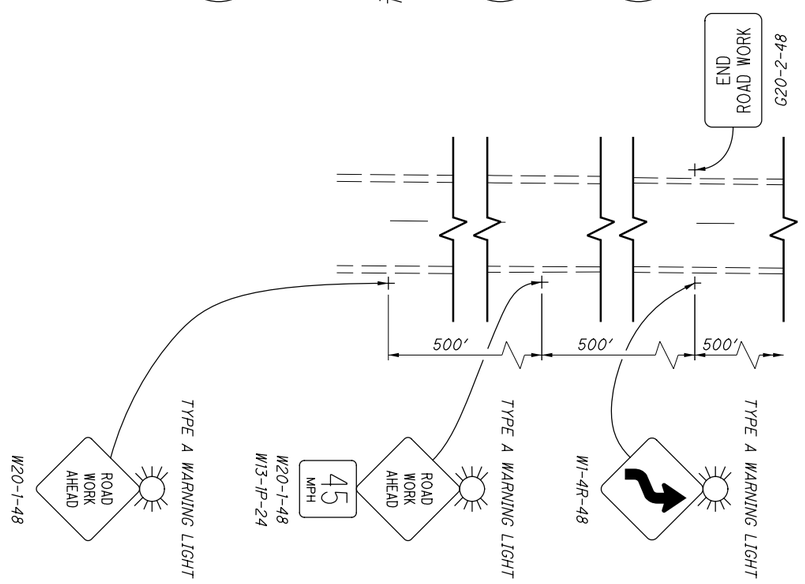
LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32″ PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4″
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″

TEMP. CURVE NO. 1 DATA	TEMP. CURVE NO. 2 DATA
Δ = 7° 2′ 34″ RT.	Δ = 7° 24′ 2″ LT.
R = 1000′	R = 1000′
T = 61.54′	T = 64.67′
L = 122.92′	L = 129.17′
PC STA. 107+83.68, 0′ LT./RT.	PCC STA. 109+06.24, 7.67′ RT.
PCC STA. 109+06.24, 7.67′ RT.	PT STA. 110+35.05, 16′ RT.





NOTES:

CONTRACTOR SHALL ADJUST GRADING AS NEEDED IN THE FIELD TO NOT IMPACT THE EXISTING POLES.

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SITE DISTANCE AT THE PRIVATE DRIVES. ADJUST BARRIER AS DIRECTED BY THE ENGINEER WHEN NEEDED.

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 2

ROS-207-0.00

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LEGEND

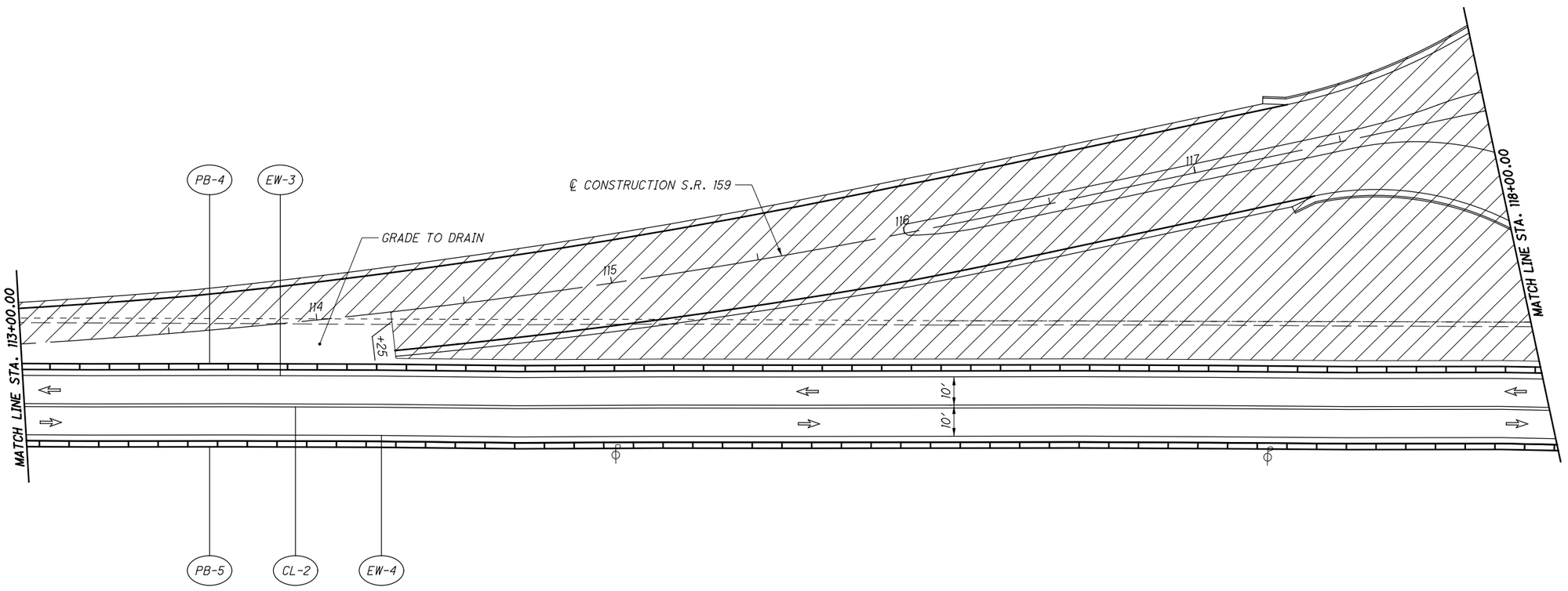
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



NOTES:
CONTRACTOR SHALL ADJUST GRADING AS NEEDED IN THE FIELD TO NOT IMPACT THE EXISTING POLES.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 2

ROS-207-0.00

31
332

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LEGEND

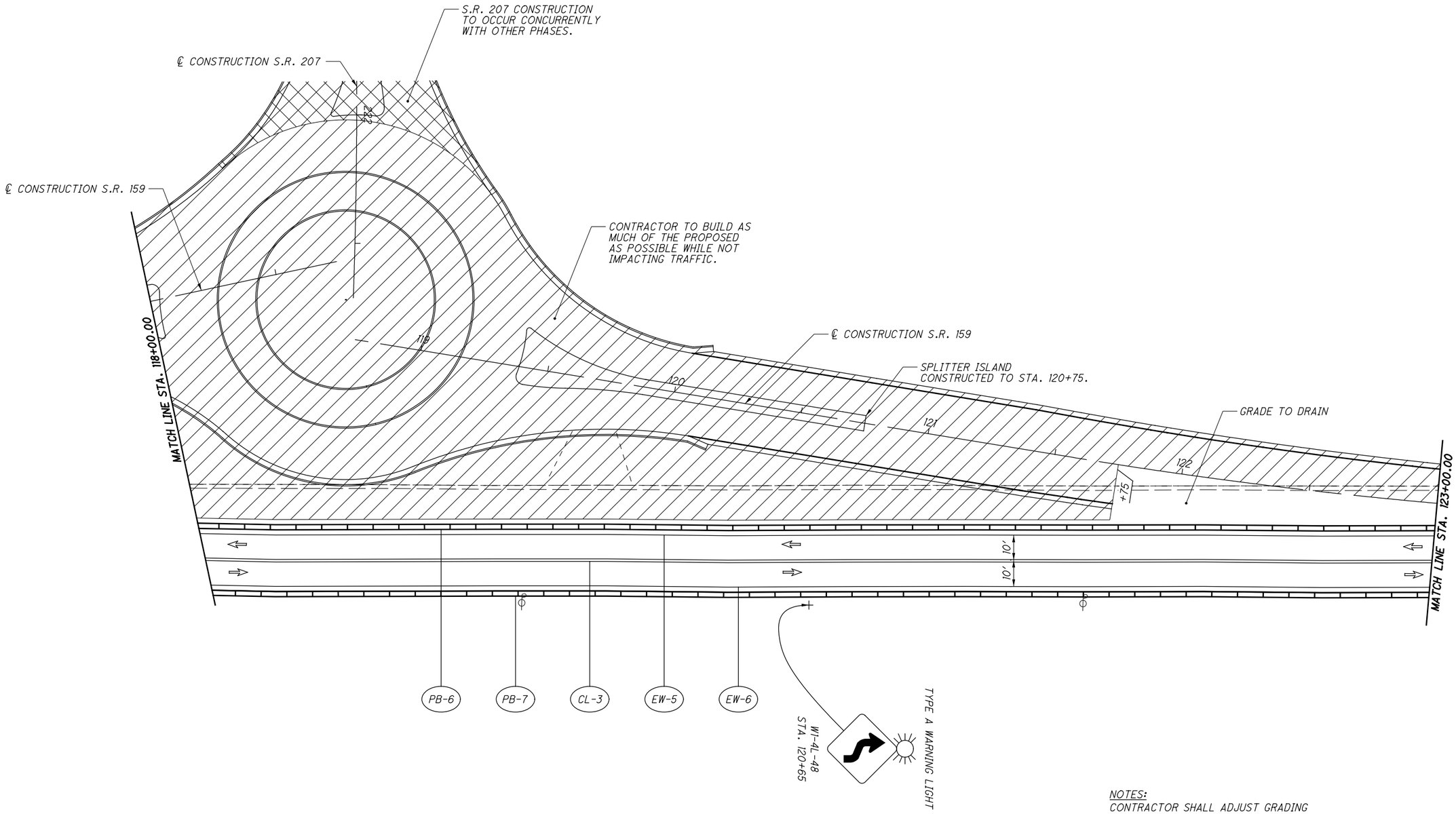
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



NOTES:
CONTRACTOR SHALL ADJUST GRADING AS NEEDED IN THE FIELD TO NOT IMPACT THE EXISTING POLES.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 2

ROS-207-0.00

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LEGEND

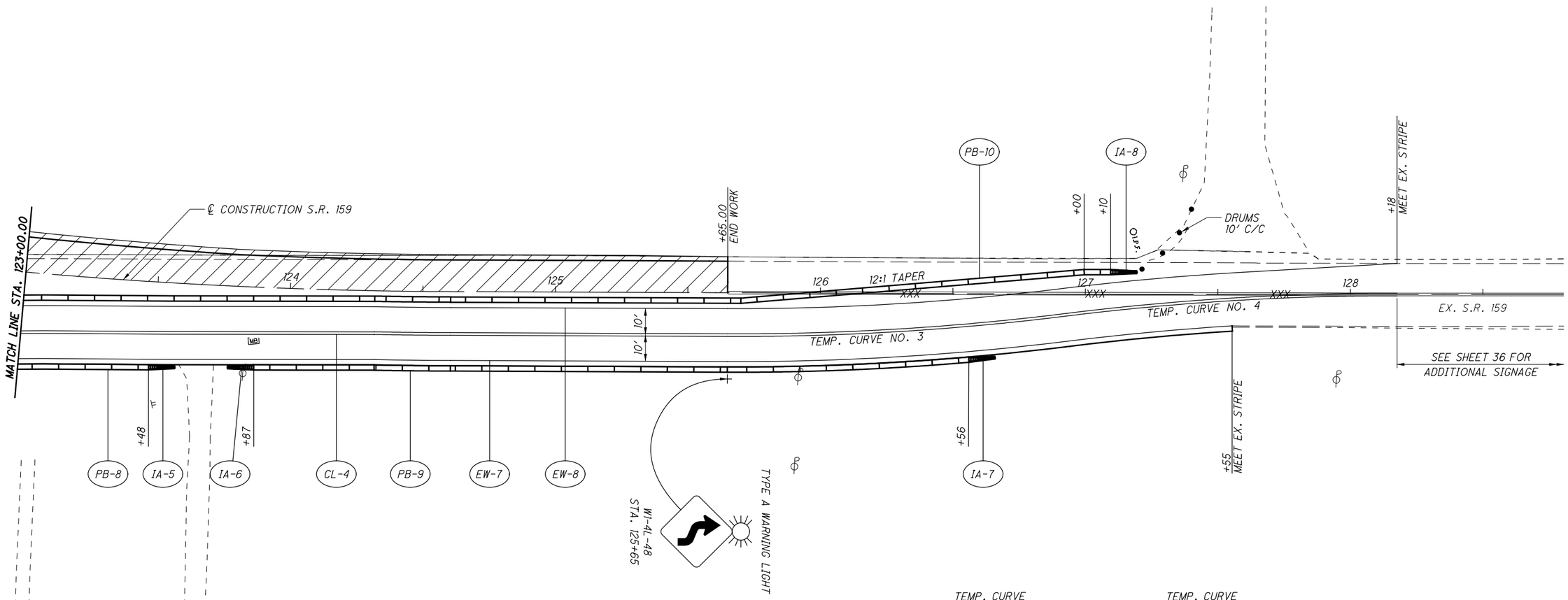
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



TEMP. CURVE NO. 3 DATA

Δ = 7° 20' 15" LT.
R = 1000'
T = 64.12'
L = 128.06'
PC STA. 125+65.00, 16' RT.
PCC STA. 126+92.71, 7.81' RT.

TEMP. CURVE NO. 4 DATA

Δ = 7° 10' 33" RT.
R = 1000'
T = 62.70'
L = 125.24'
PCC STA. 126+92.71, 7.81' RT.
PT STA. 128+17.60, 0' LT./RT.

NOTES:

CONTRACTOR SHALL ADJUST GRADING AS NEEDED IN THE FIELD TO NOT IMPACT THE EXISTING POLES.

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SITE DISTANCE AT THE PRIVATE DRIVES. ADJUST BARRIER AS DIRECTED BY THE ENGINEER WHEN NEEDED.

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 2

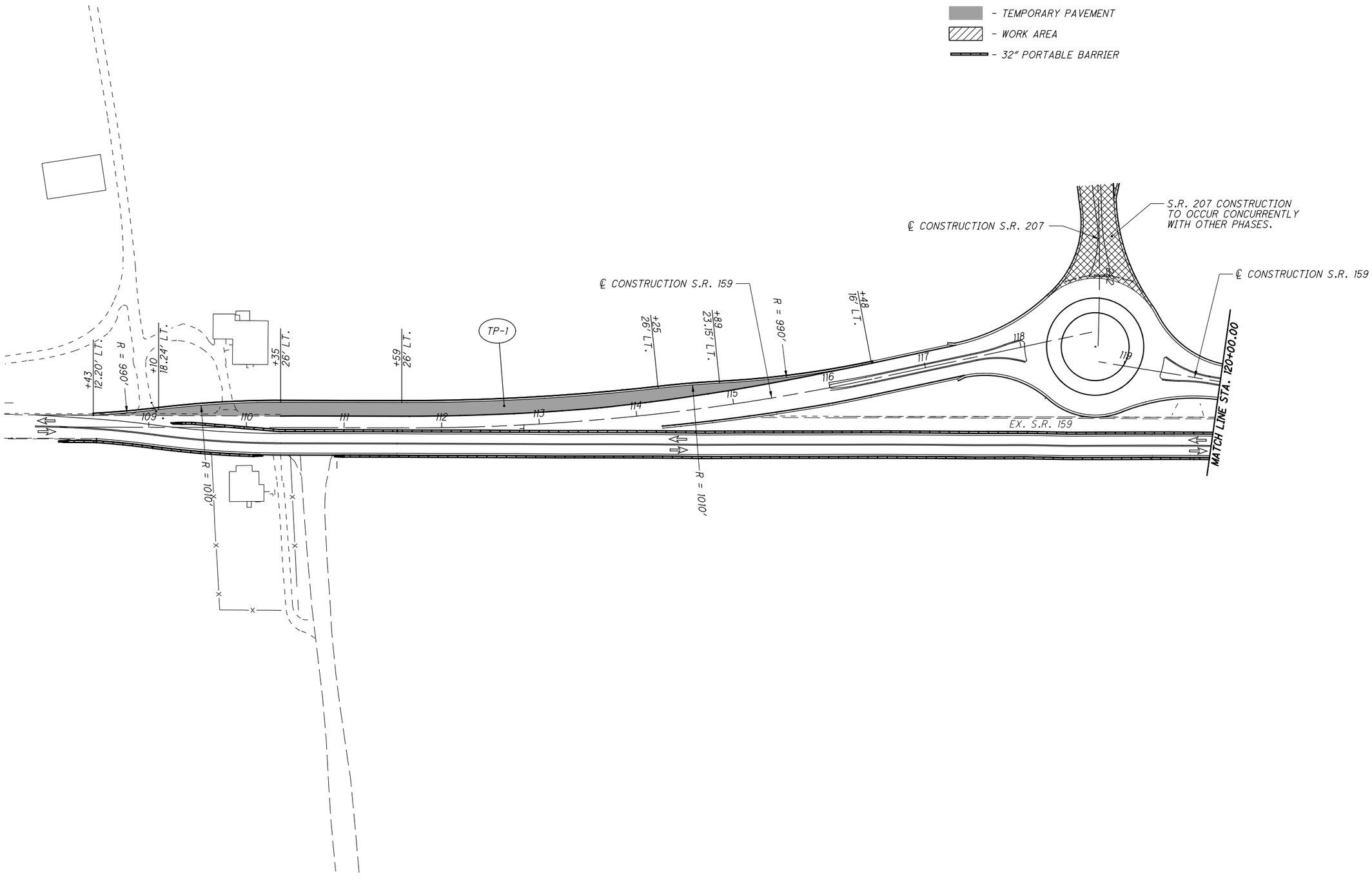
ROS-207-0.00

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332

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LEGEND

- PROPOSED SIGN
- DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT
- WORK AREA
- 32" PORTABLE BARRIER
- TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



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HORIZONTAL SCALE IN FEET
0 25 50 100

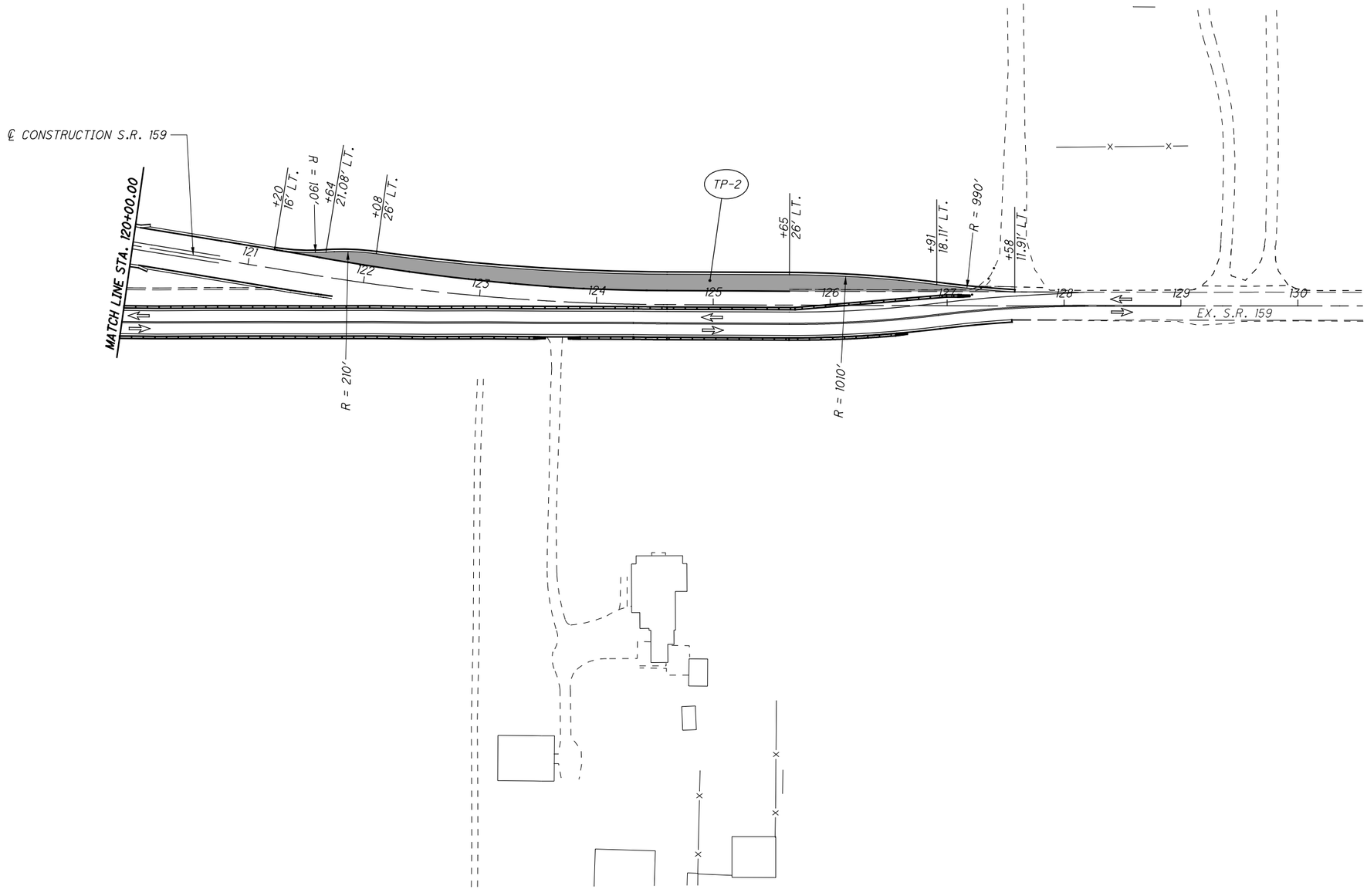
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 2

ROS-207-0.00

LEGEND

- PROPOSED SIGN
- DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT
- WORK AREA
- 32" PORTABLE BARRIER
- TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



HORIZONTAL SCALE IN FEET
0 25 50 100

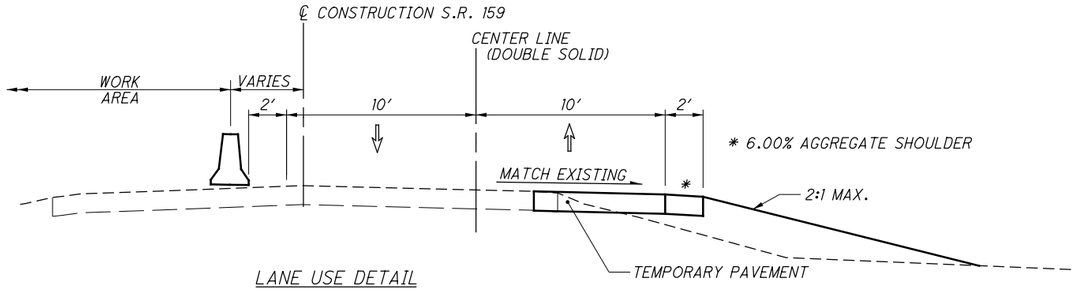
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 2

ROS-207-0.00

35
332

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LANE USE DETAIL

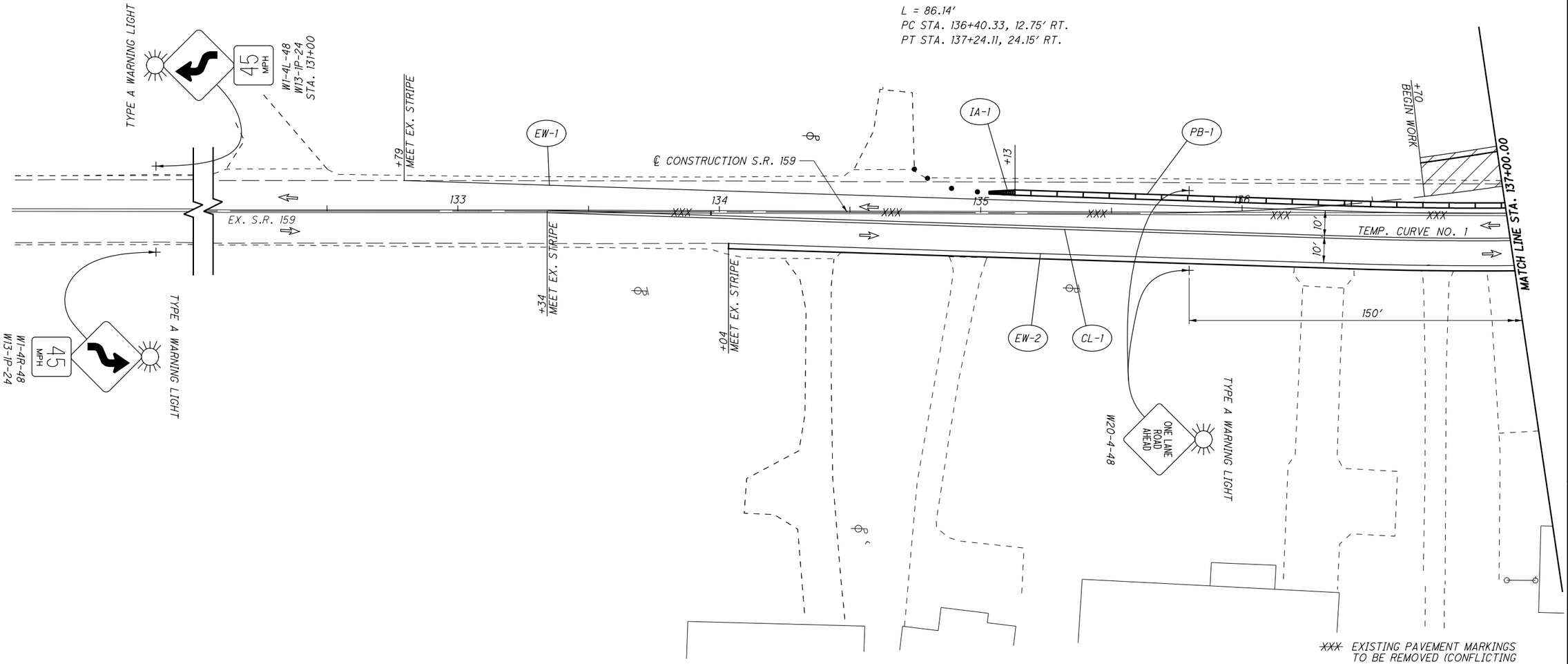
LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32″ PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4″
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″

TEMP. CURVE
NO. 1 DATA

Δ = 3°17′25″ LT.
R = 1500′
T = 43.08′
L = 86.14′
PC STA. 136+40.33, 12.75′ RT.
PT STA. 137+24.11, 24.15′ RT.



~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SITE DISTANCE AT THE PRIVATE DRIVES. ADJUST BARRIER AS DIRECTED BY THE ENGINEER WHEN NEEDED.

HORIZONTAL SCALE IN FEET
0 10 20 40

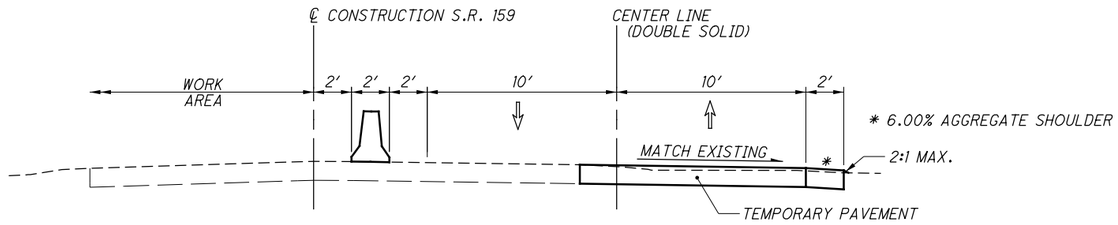
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 2A

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332

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LANE USE DETAIL

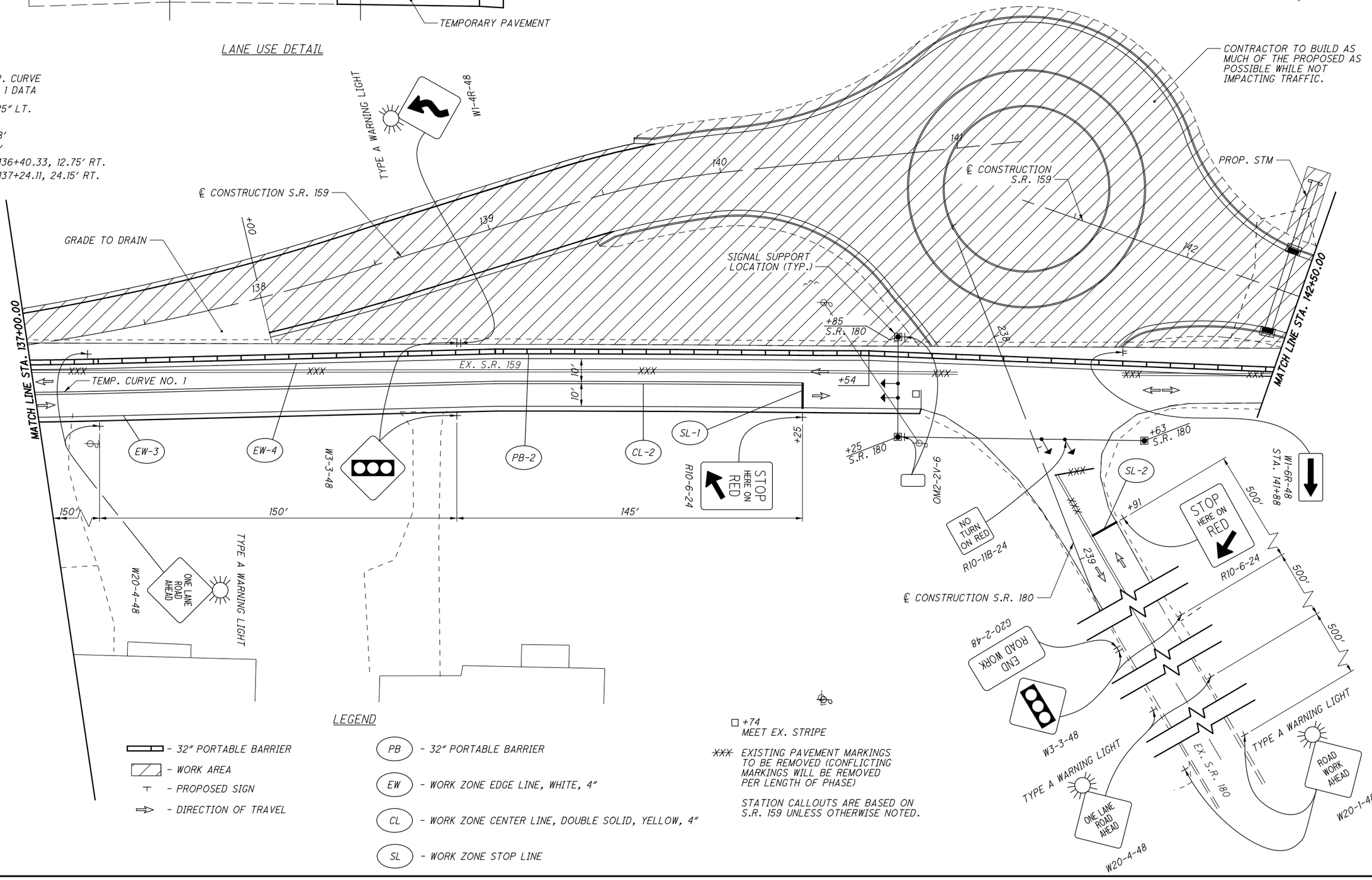
TEMP. CURVE NO. 1 DATA

Δ = 3°17′25″ LT.
R = 1500′
T = 43.08′
L = 86.14′
PC STA. 136+40.33, 12.75′ RT.
PT STA. 137+24.11, 24.15′ RT.

TEMP. CURVE NO. 4 DATA

Δ = 6° 10′ 22″ RT.
R = 1000′
T = 53.92′
L = 107.74′
PCC STA. 136+62.31, 16.17′ RT.
PT STA. 137+66.94, 28.22′ RT.

CONTRACTOR TO BUILD AS MUCH OF THE PROPOSED AS POSSIBLE WHILE NOT IMPACTING TRAFFIC.



LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- DIRECTION OF TRAVEL

PB - 32″ PORTABLE BARRIER
EW - WORK ZONE EDGE LINE, WHITE, 4″
CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″
SL - WORK ZONE STOP LINE

□ +74 MEET EX. STRIPE

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

STATION CALLOUTS ARE BASED ON S.R. 159 UNLESS OTHERWISE NOTED.

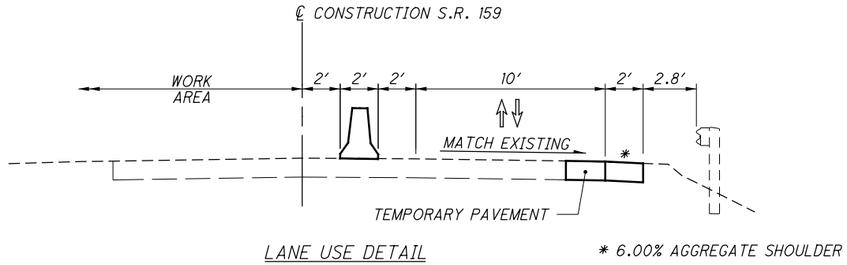
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 2A

ROS-207-0.00

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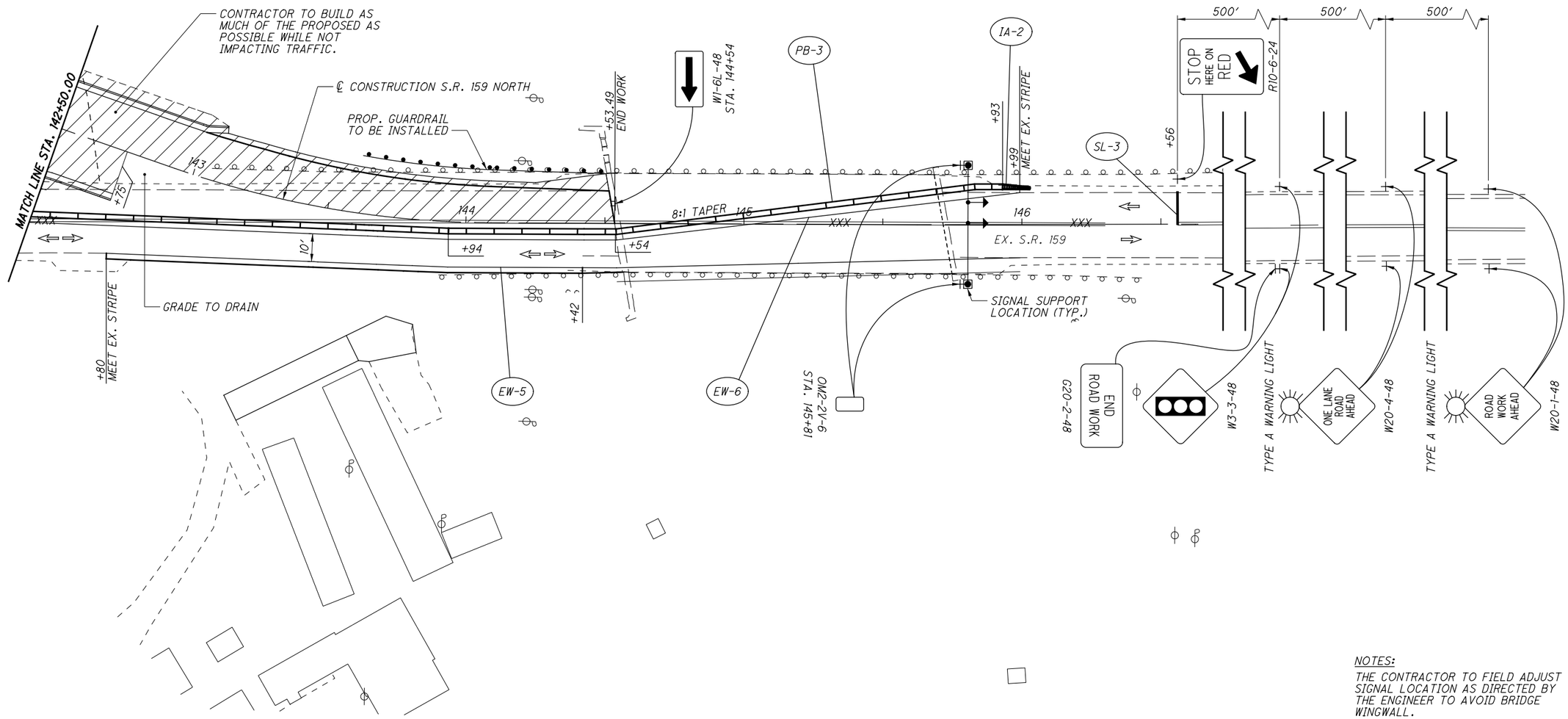
LANE USE DETAIL

* 6.00% AGGREGATE SHOULDER

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32" PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4"
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"
- SL - WORK ZONE STOP LINE



NOTES:

THE CONTRACTOR TO FIELD ADJUST SIGNAL LOCATION AS DIRECTED BY THE ENGINEER TO AVOID BRIDGE WINGWALL.

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 2A

ROS-207-0.00

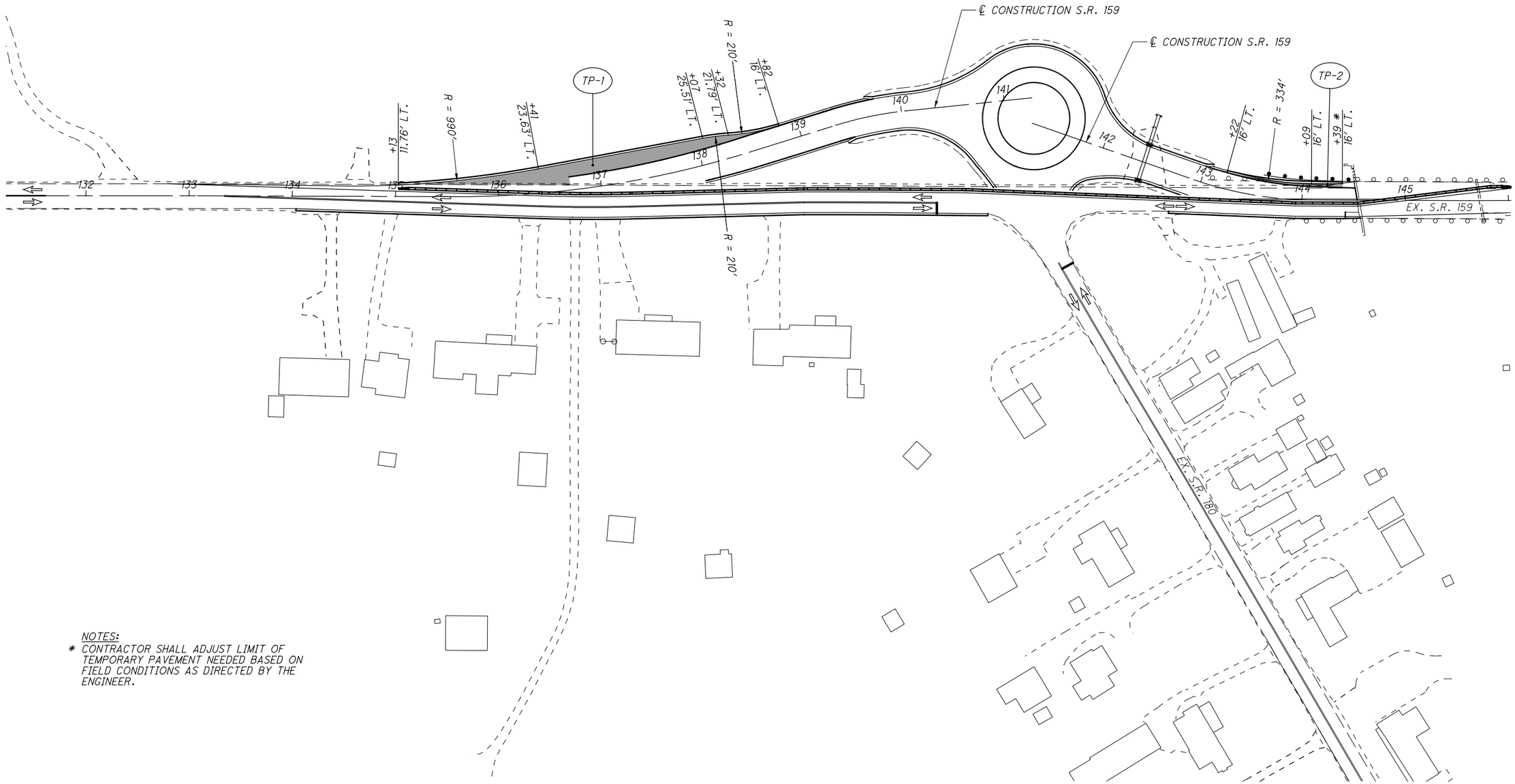
38
332

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LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT

TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



NOTES:

* CONTRACTOR SHALL ADJUST LIMIT OF TEMPORARY PAVEMENT NEEDED BASED ON FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

HORIZONTAL SCALE IN FEET
0 25 50 100

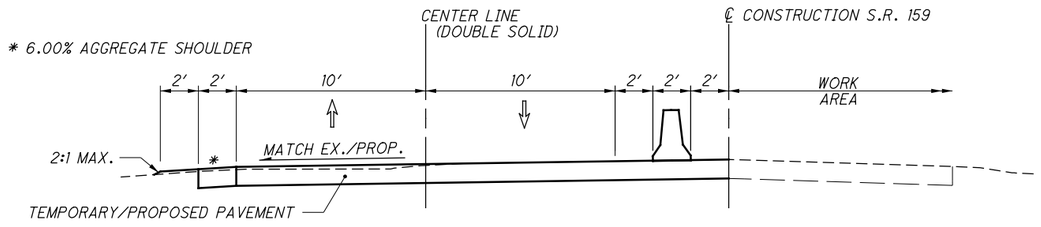
CALCULATED ALB
CHECKED

MAINTENANCE OF TRAFFIC PHASE 2A

ROS-207-0.00

39
332

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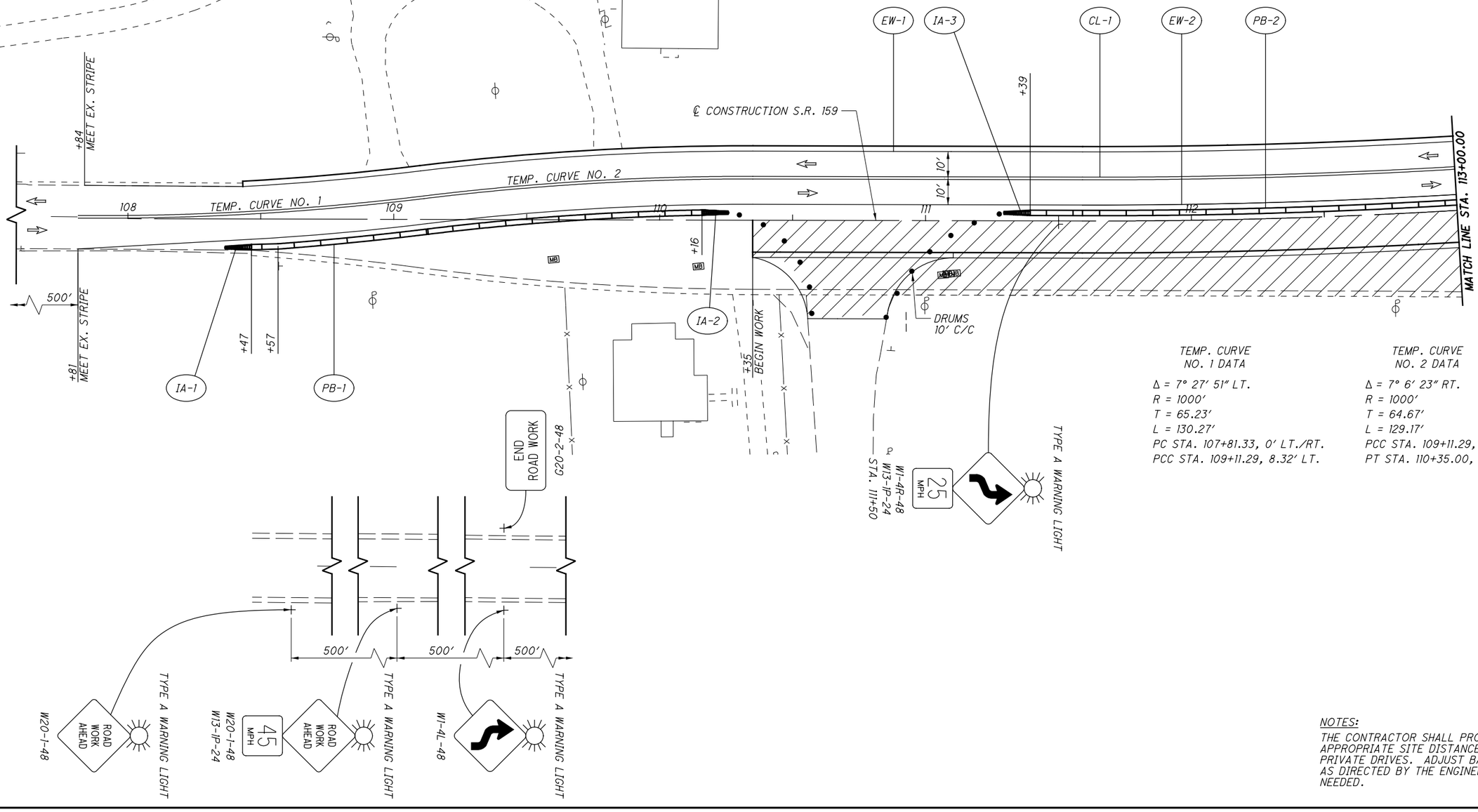


LANE USE DETAIL

LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32″ PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4″
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″



TEMP. CURVE NO. 1 DATA

Δ = 7° 27′ 51″ LT.
R = 1000′
T = 65.23′
L = 130.27′
PC STA. 107+81.33, 0′ LT./RT.
PCC STA. 109+11.29, 8.32′ LT.

TEMP. CURVE NO. 2 DATA

Δ = 7° 6′ 23″ RT.
R = 1000′
T = 64.67′
L = 129.17′
PCC STA. 109+11.29, 8.32′ LT.
PT STA. 110+35.00, 16′ LT.

NOTES:

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SITE DISTANCE AT THE PRIVATE DRIVES. ADJUST BARRIER AS DIRECTED BY THE ENGINEER WHEN NEEDED.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 3

ROS-207-0.00

40
332

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LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

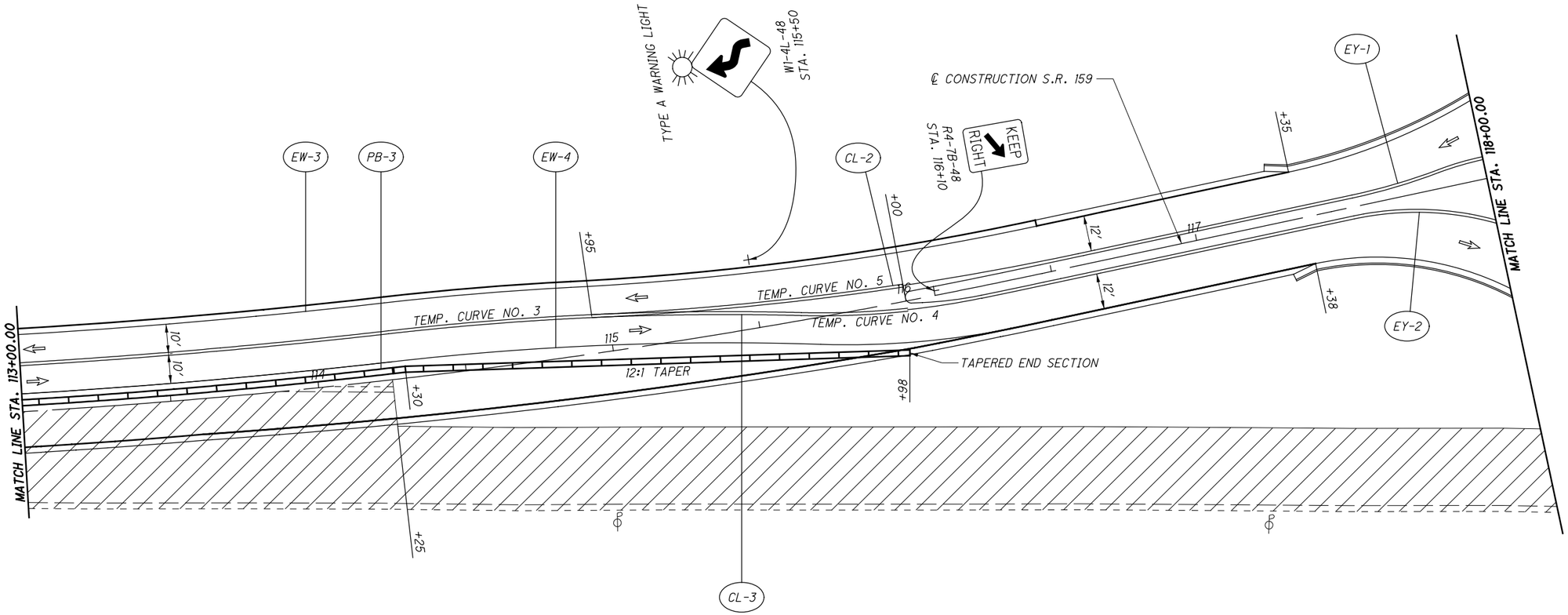
IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"

EY - WORK ZONE EDGE LINE, YELLOW, 4"



TEMP. CURVE NO. 3 DATA

Δ = 7° 58' 59" RT.
R = 1000'
T = 69.78'
L = 139.33'
PC STA. 114+25.44, 16' LT.
PCC STA. 115+64.53, 2.09' LT.

TEMP. CURVE NO. 4 DATA

Δ = 12° 58' 40" LT.
R = 270'
T = 30.71'
L = 61.16'
PCC STA. 115+64.53, 2.09' LT.
PT STA. 116+25.23, 4' RT.

TEMP. CURVE NO. 5 DATA

Δ = 9° 28' 19" LT.
R = 1000'
T = 82.85'
L = 165.32'
PC STA. 114+94.51, 12.60' LT.
PT STA. 116+60.02, 4' LT.

HORIZONTAL SCALE IN FEET
0 10 20 40

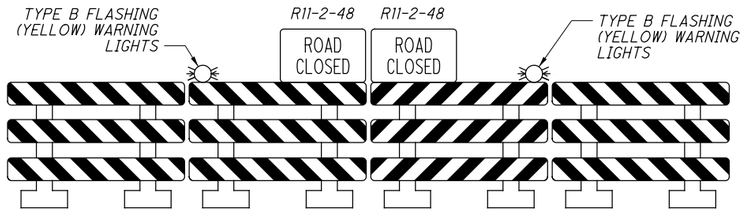
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 3

ROS-207-0.00

41
332

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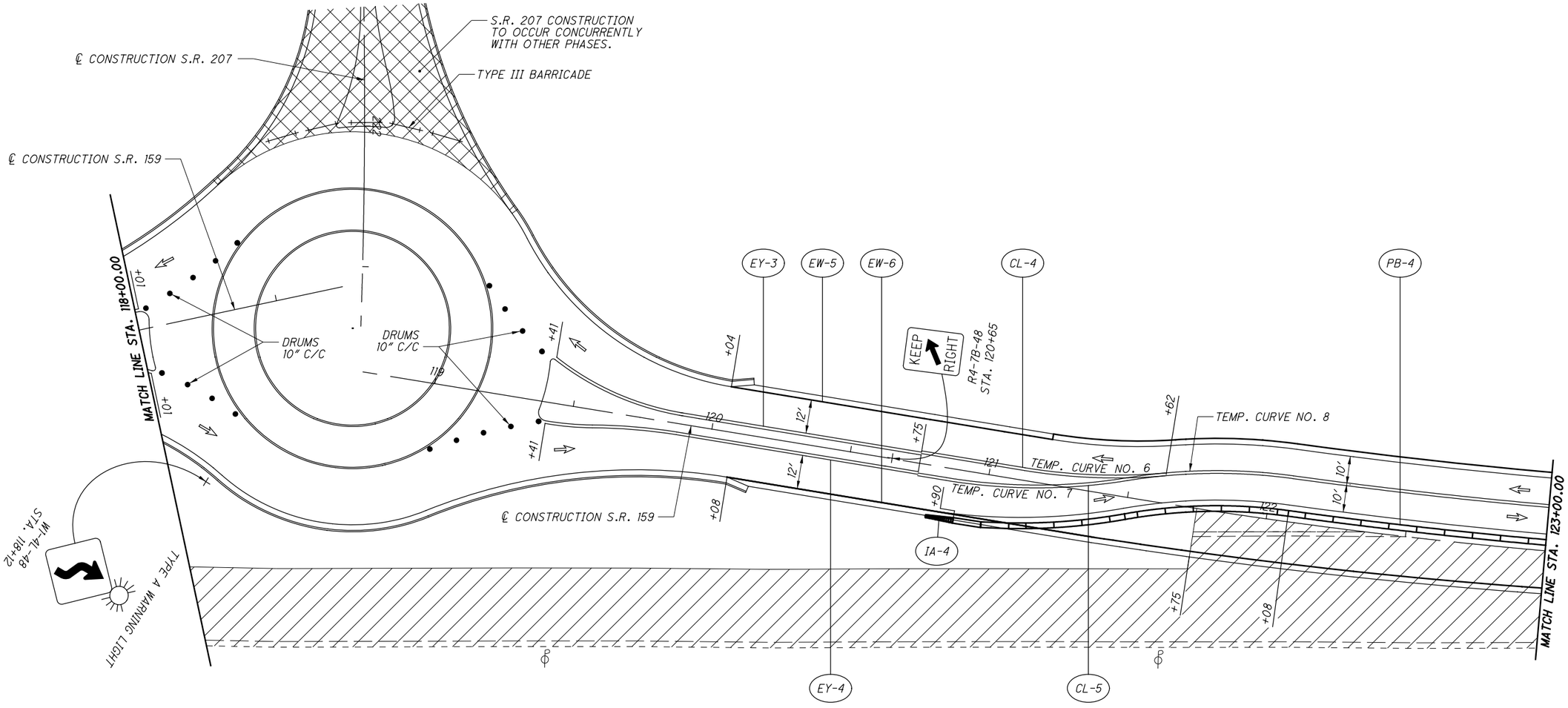
TYPE III BARRICADE

INSERT TYPE III BARRICADE CLOSURE WITH APPROPRIATE SIGNAGE PER MT-101.60.

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32" PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4"
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"
- EY - WORK ZONE EDGE LINE, YELLOW, 4"



TEMP. CURVE NO. 6 DATA

Δ = 14° 29' 18" LT.
R = 200'
T = 25.42'
L = 50.57'
PC STA. 121+12.26, 4' LT.
PT STA. 121+62.32, 10.35' LT.

TEMP. CURVE NO. 7 DATA

Δ = 18° 31' 21" LT.
R = 200'
T = 32.61'
L = 64.66'
PT STA. 120+85.26, 4' RT.
PCC STA. 121+48.79, 6.36' LT.

TEMP. CURVE NO. 8 DATA

Δ = 17° 1' 10" RT.
R = 200'
T = 29.92'
L = 59.41'
PCC STA. 121+48.79, 6.36' LT.
PT STA. 122+07.51, 16' LT.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 3

ROS-207-0.00

42
332

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LEGEND

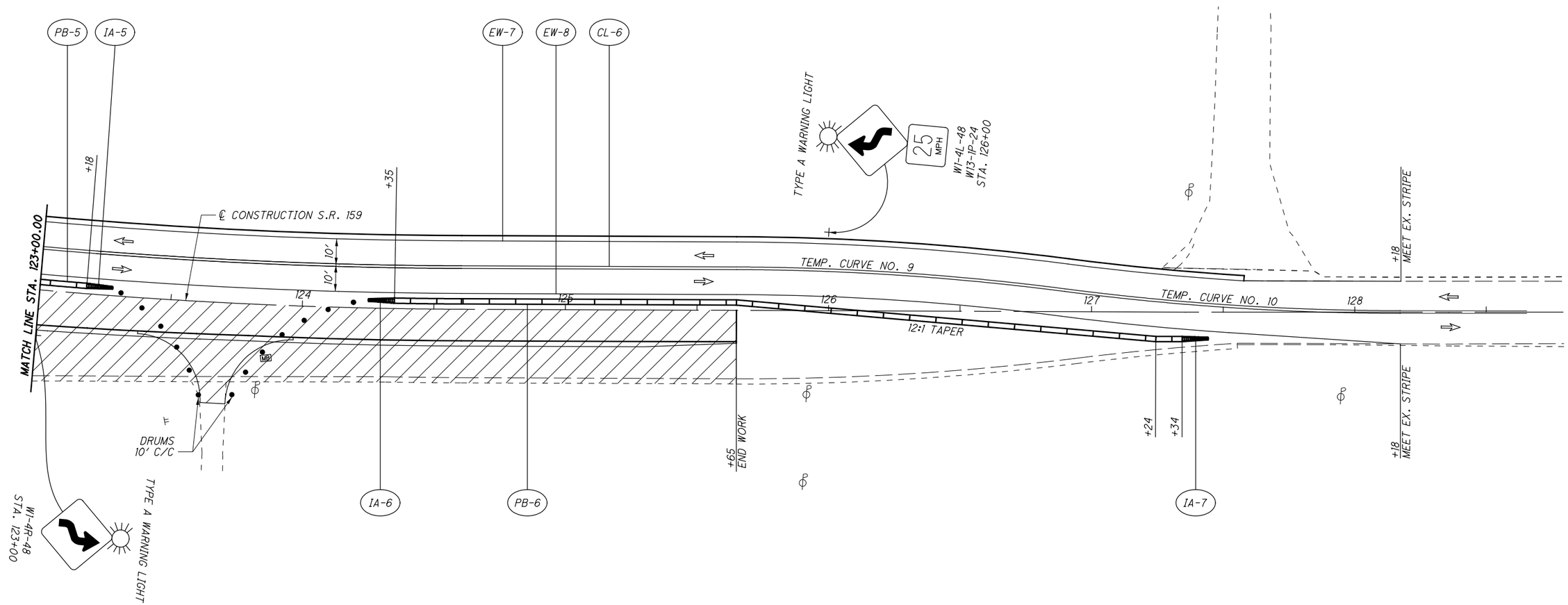
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- TYPE A WARNING LIGHT
- DRUMS

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



TEMP. CURVE NO. 9 DATA

Δ = 7° 10' 5" RT.
R = 1000'
T = 62.63'
L = 125.11'
PC STA. 125+65.00, 16' LT.
PCC STA. 126+89.78, 8.18' LT.

TEMP. CURVE NO. 10 DATA

Δ = 7° 19' 47" LT.
R = 1000'
T = 64.05'
L = 127.93'
PCC STA. 126+89.78, 8.18' LT.
PT STA. 128+17.38, 0' LT./RT.

NOTES:

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SITE DISTANCE AT THE PRIVATE DRIVES. ADJUST BARRIER AS DIRECTED BY THE ENGINEER WHEN NEEDED.

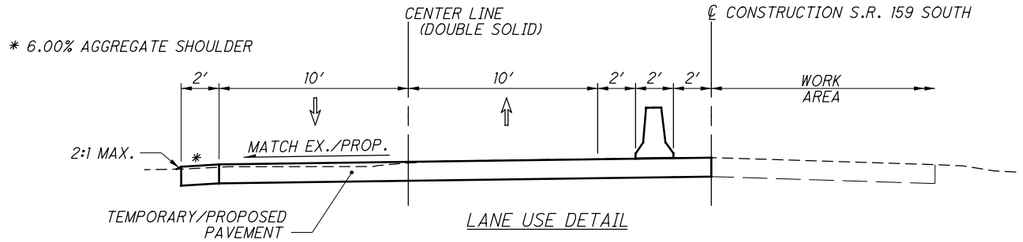
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 3

ROS-207-0.00

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LANE USE DETAIL

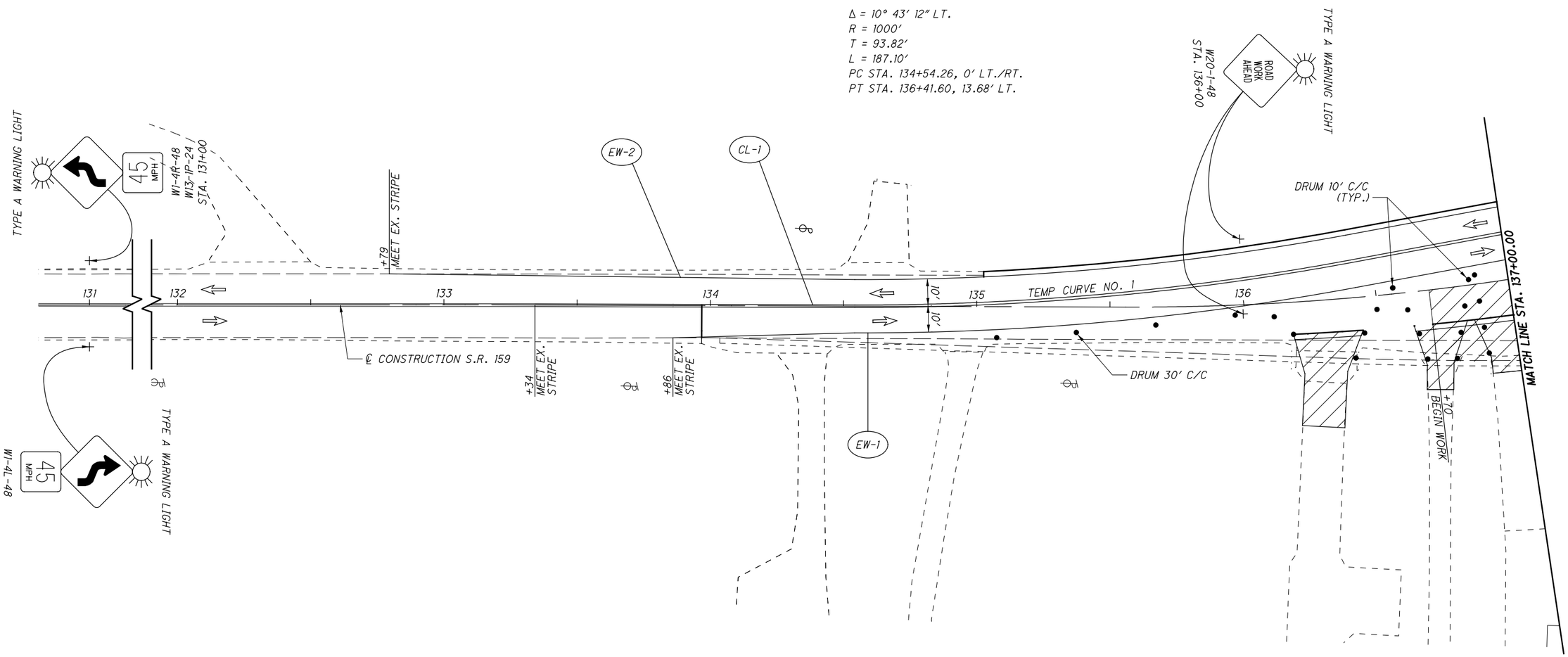
LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32″ PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4″
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″

TEMP. CURVE NO. 1 DATA

Δ = 10° 43′ 12″ LT.
R = 1000′
T = 93.82′
L = 187.10′
PC STA. 134+54.26, 0′ LT./RT.
PT STA. 136+41.60, 13.68′ LT.



MAINTENANCE OF TRAFFIC
PHASE 3A

ROS-207-0.00

CALCULATED SLP
CHECKED ALB

HORIZONTAL SCALE IN FEET
0 10 20 40

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TEMP. CURVE
NO. 2 DATA

Δ = 9° 45′ 57″ RT.
R = 200′
T = 17.09′
L = 34.10′
PC STA. 138+06.11, 15.54′ LT.
PT STA. 138+40.07, 9.52′ LT.

SIGNAL SUPPORT
LOCATION (TYP.)

SL-1

+68

+74

KEEP RIGHT
R4-7B-48
STA. 140+60

DRUMS
10′ C/C

16

+15

141

℄ CONSTRUCTION
S.R. 159 NORTH

142

TYPE III BARRICADE

IA-3

℄ CONSTRUCTION S.R. 159

TEMP. CURVE NO. 5

KEEP RIGHT
R4-7B-48
STA. 138+62

W3-3-48
STA. 139+16

EY-1

+75

DRUMS
10′ C/C

TEMP. CURVE NO. 2

+40

+00

CL-2

EW-3

+40

10′

+40

10′

+50

+96

EW-5

TYPE III
BARRICADE

EY-2

EW-4

MATCH LINE STA. 137+00.00

EX. S.R. 159

MATCH LINE STA. 142+50.00

238

DRUMS
10′ C/C

IA-1

PB-1

IA-2

DRUMS
10′ C/C

PROP. CULVERT

PROP. STM

239

℄ CONSTRUCTION S.R. 180

PHASE 3B WORK AREA

EX. S.R. 180

240

LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- DIRECTION OF TRAVEL
- DRUMS
- TYPE III BARRICADE

PB - 32″ PORTABLE BARRIER
EW - WORK ZONE EDGE LINE, WHITE, 4″
CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″
EY - WORK ZONE EDGE LINE, YELLOW, 4″
IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

TYPE B FLASHING (YELLOW) WARNING LIGHTS
R11-2-48 ROAD CLOSED
R11-2-48 ROAD CLOSED
TYPE B FLASHING (YELLOW) WARNING LIGHTS

TYPE III BARRICADE

INSERT TYPE III BARRICADE CLOSURE WITH APPROPRIATE SIGNAGE PER MT-101.60.

HORIZONTAL SCALE IN FEET
0 10 20 40

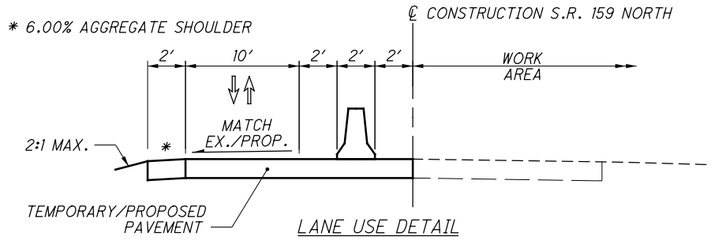
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 3A

ROS-207-0.00

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332

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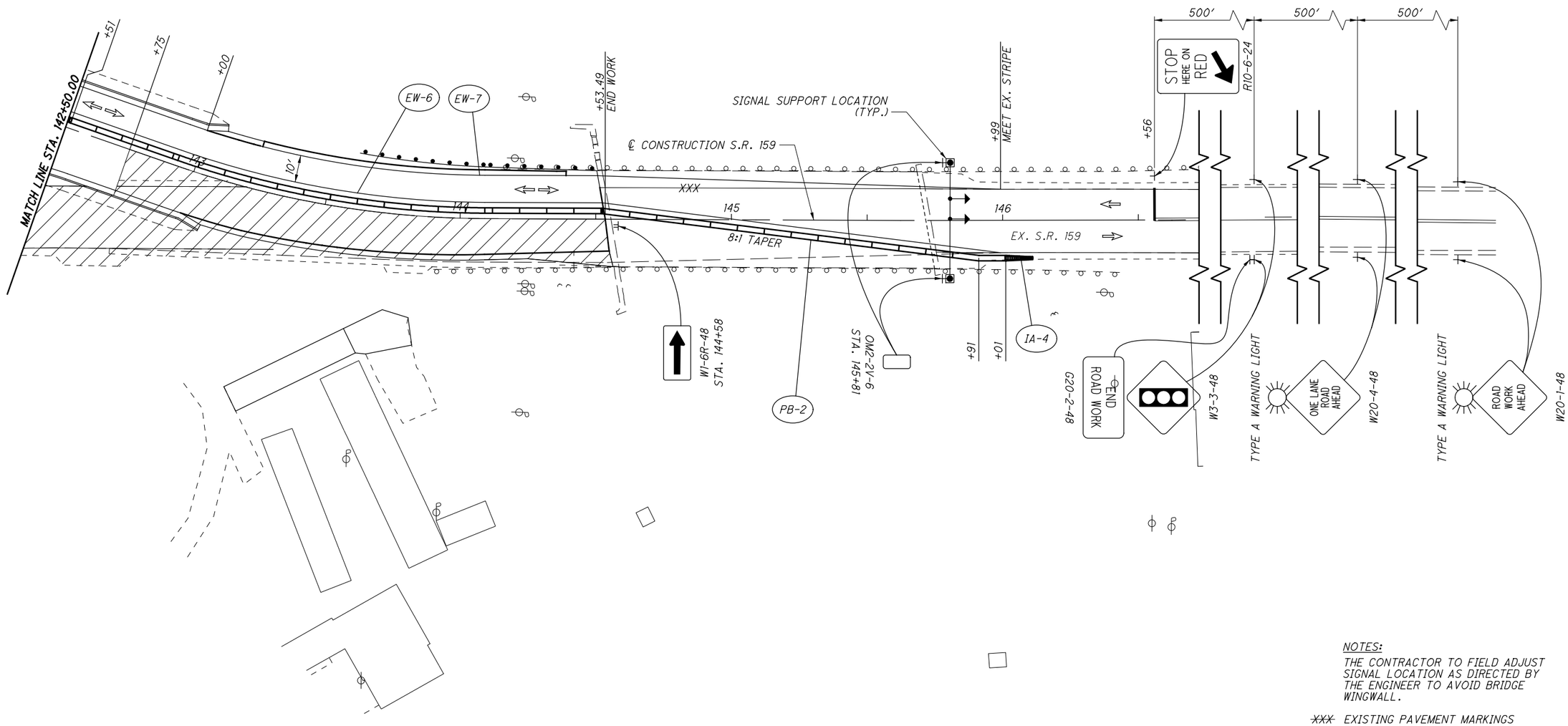


LANE USE DETAIL

LEGEND

- 32″ PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32″ PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4″
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4″



NOTES:

THE CONTRACTOR TO FIELD ADJUST SIGNAL LOCATION AS DIRECTED BY THE ENGINEER TO AVOID BRIDGE WINGWALL.

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

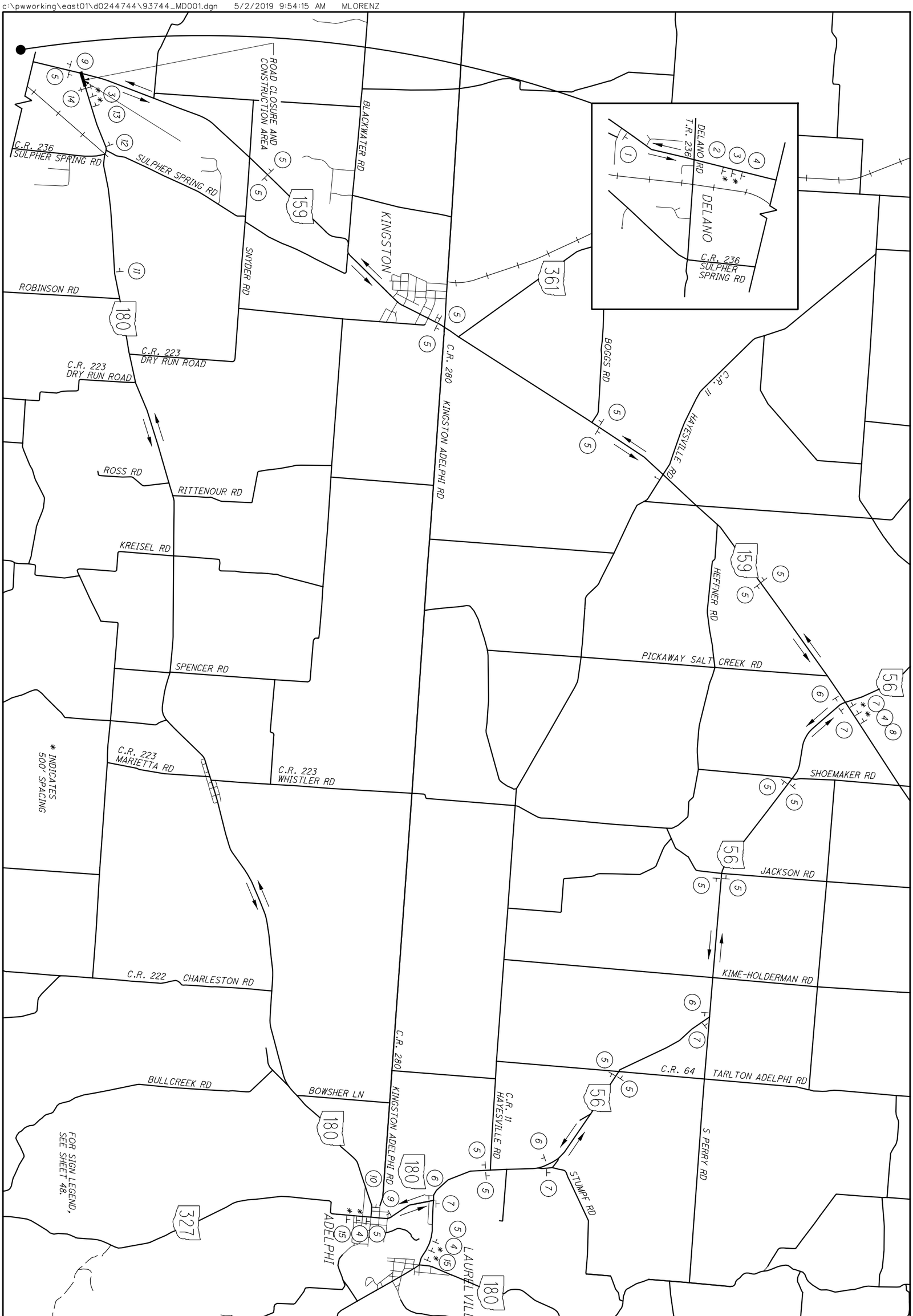
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 3A

ROS-207-0.00

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47 / 332	ROS-207-0.00	MAINTENANCE OF TRAFFIC DETOUR ROUTE - PHASE 3B	CALCULATED SLP / CHECKED ALB	0 2200 1100 4400 HORIZONTAL SCALE IN FEET

(1)

S.R. 180 CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY

SPECIAL
B/O
60" X 30"

(2)

S.R. 180 CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY

SPECIAL
B/O
60" X 30"

(3)

TYPE A WARNING LIGHT

ROAD
CLOSED
AHEAD

W20-3-48

(4)

TYPE A WARNING LIGHT

DETOUR
AHEAD

W20-2-48

(5)



M4-8-30
M1-5-36-3
M6-3-30

(6)



M4-8-30
M1-5-36-3
M5-1R-30

(7)



M4-8-30
M1-5-36-3
M5-1L-30

(8)

S.R. 180 CLOSED
10 MILES AHEAD
LOCAL TRAFFIC ONLY

SPECIAL
B/O
60" X 30"

(9)

END
DETOUR

M4-8A-24

(10)

ROAD CLOSED
12 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

(11)

ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

(12)

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

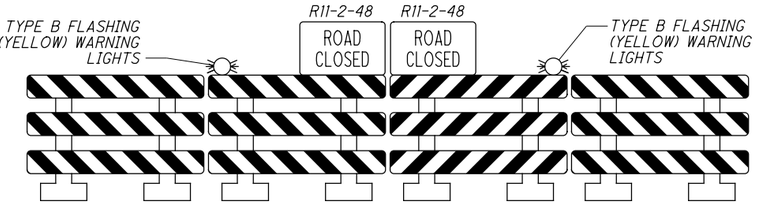
(13)

TYPE A WARNING LIGHT

ROAD
WORK
AHEAD

W20-1-48

(14)



TYPE III BARRICADE

INSERT TYPE III BARRICADE CLOSURE WITH APPROPRIATE SIGNAGE PER MT-101.60.

(15)

S.R. 180 CLOSED
AT SULPHER SPRING ROAD
LOCAL TRAFFIC ONLY

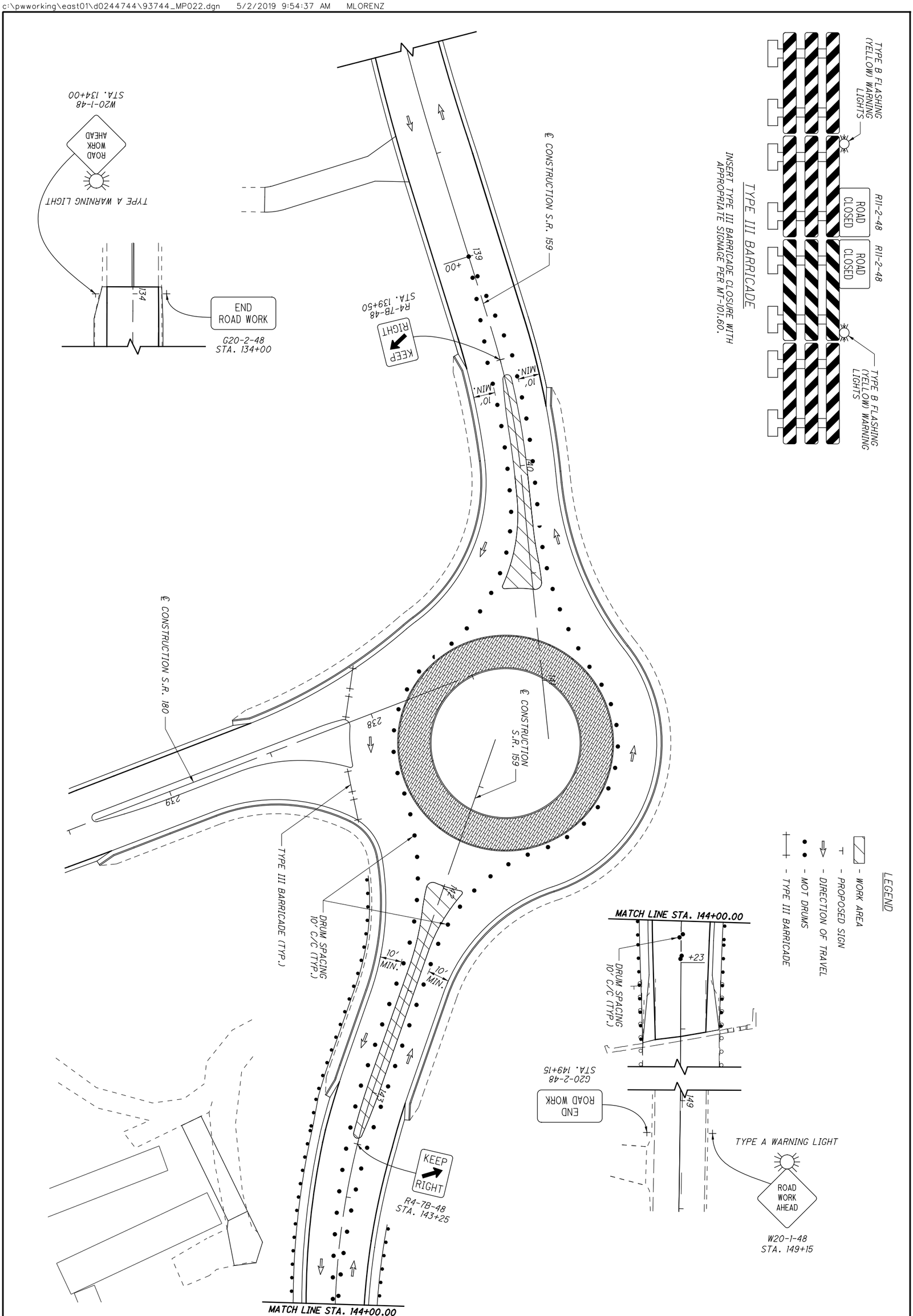
SPECIAL
B/O
60" X 30"

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
DETOUR SIGNS - PHASE 3B

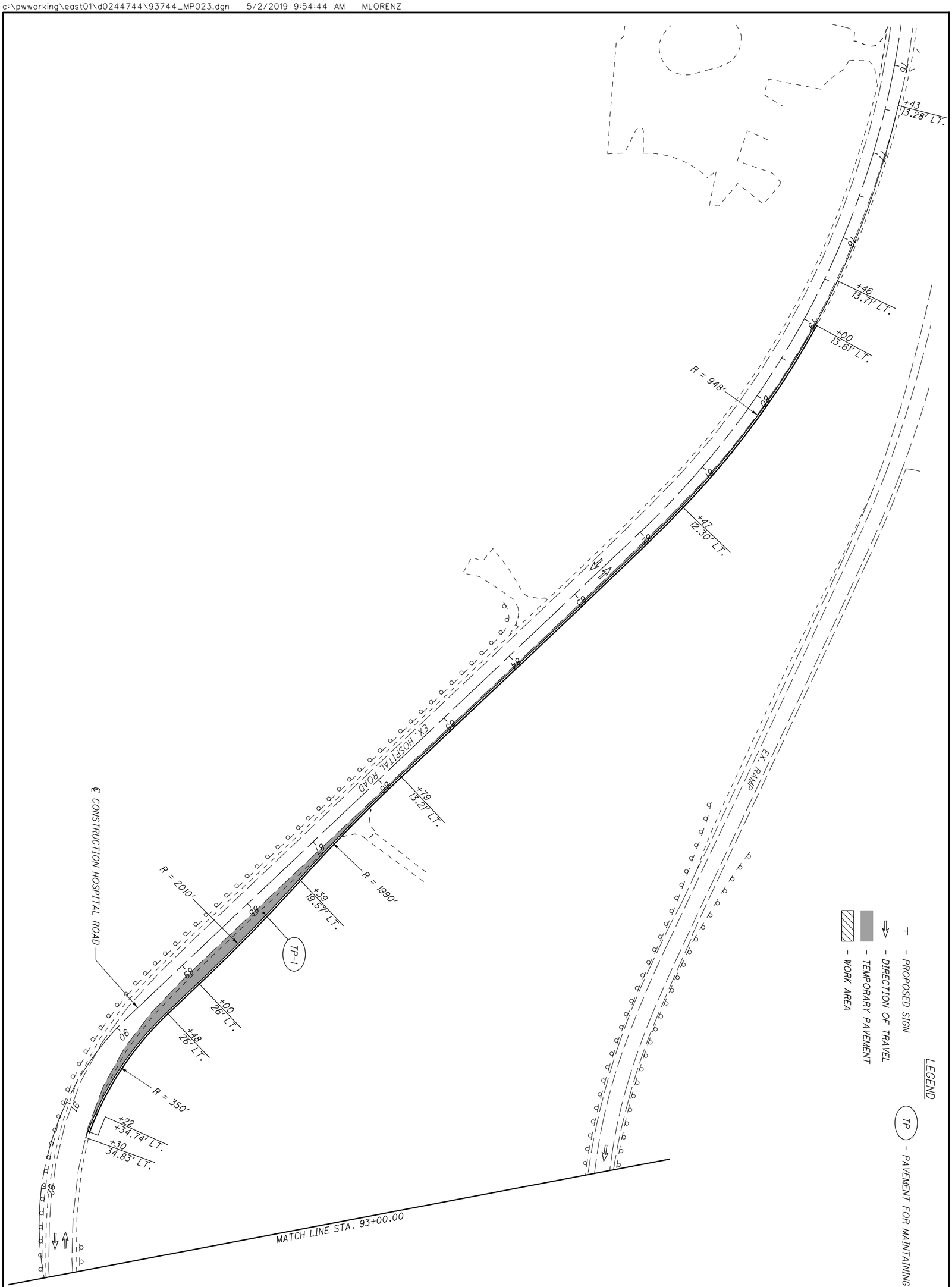
ROS-207-0.00

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49 / 332	ROS-207-EXT.	MAINTENANCE OF TRAFFIC PHASE 4	CALCULATED ALB / CHECKED	0 10 20 40 HORIZONTAL SCALE IN FEET

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50 / 332	ROS-207-0.00	MAINTENANCE OF TRAFFIC PHASE 6	CALCULATED SLP CHECKED ALB	0 50 25 100 HORIZONTAL SCALE IN FEET

LEGEND

⊤ - PROPOSED SIGN

TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

⇒ - DIRECTION OF TRAVEL

- TEMPORARY PAVEMENT

- WORK AREA

POT Sta. 169+00.00

EX. RAMP

EX. RAMP

MATCH LINE STA. 93+00.00

C.R. 207A

EX. HOSPITAL ROAD

TP-2

R = 970'

R = 340'

R = 50'

+68 11.49' LT.

+48 14' LT.

+75 14' LT.

+71 14' LT.

+64 25.42' LT.

+02 26' LT.

+67 40.30' LT.

℄ CONSTRUCTION HOSPITAL ROAD

℄ CONSTRUCTION S.R. 207

HORIZONTAL SCALE IN FEET

0 25 50 100

CALCULATED SLP

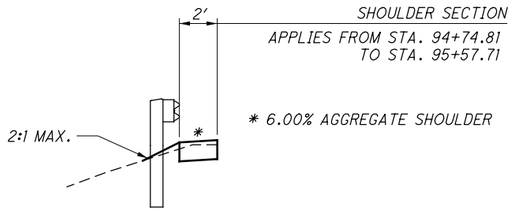
CHECKED ALB

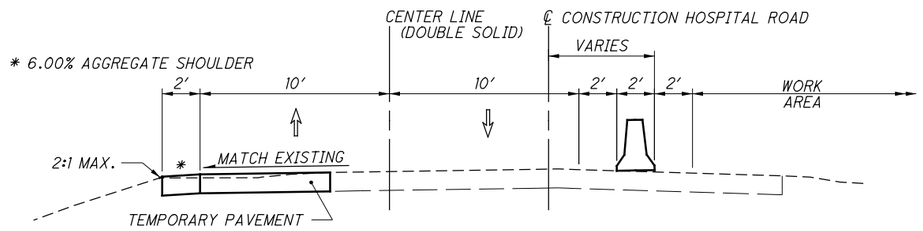
MAINTENANCE OF TRAFFIC PHASE 6

ROS-207-0.00

51
332

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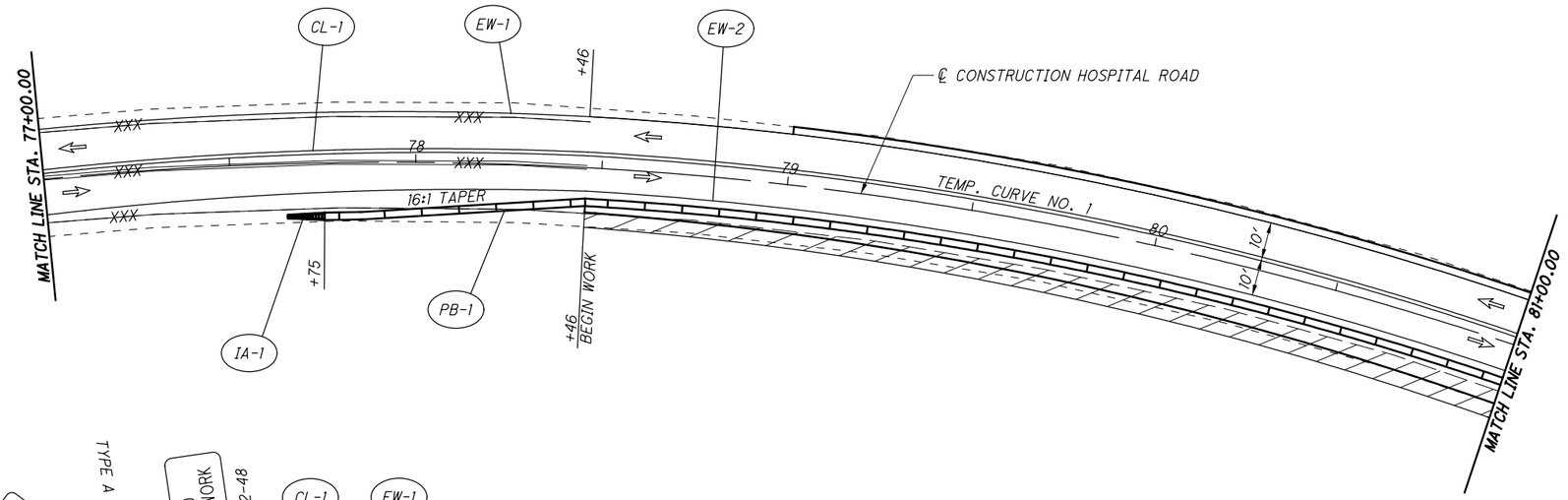


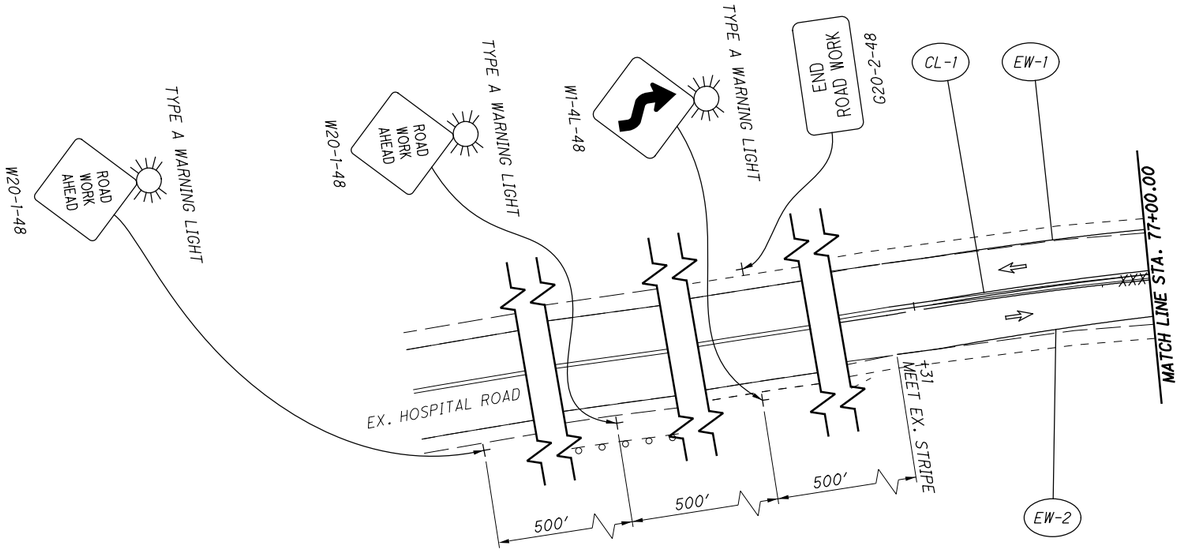
LANE USE DETAIL

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32" PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4"
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"





TEMP. CURVE
NO. 1 DATA

Δ = 18°27'50" RT.
R = 938'
T = 152.46'
L = 302.28'
PC STA. 78+46.01, 3.71' LT.
PT STA. 81+47.28, 2.30' LT.

~~XXX~~ EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

52
332

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TEMP. CURVE
NO. 1 DATA

Δ= 18°27'50" RT.
R = 938'
T = 152.46'
L = 302.28'
PC STA. 78+46.01, 3.71' LT.
PT STA. 81+47.28, 2.30' LT.

TEMP. CURVE
NO. 2 DATA

Δ= 4°37'01" LT.
R = 2000'
T = 80.62'
L = 161.16'
PC STA. 85+79.20, 3.21' LT.
PCC STA. 87+40.19, 9.61' LT.

LEGEND

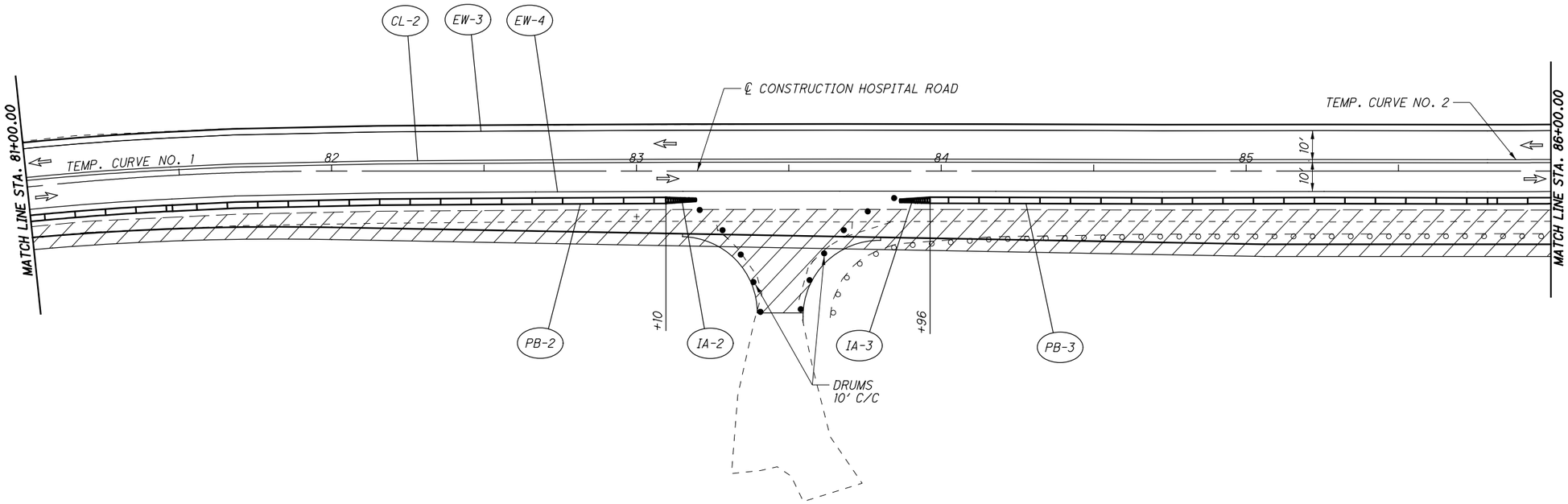
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



TEMP. CURVE
NO. 1 DATA

Δ= 18°27'50" RT.
R = 938'
T = 152.46'
L = 302.28'
PC STA. 78+46.01, 3.71' LT.
PT STA. 81+47.28, 2.30' LT.

HORIZONTAL
SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 7

ROS-207-0.00

53
332

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TEMP. CURVE NO. 2 DATA

Δ= 4°37'01" LT.
R = 2000'
T = 80.621'
L = 161.16'
PC STA. 85+79.20, 3.21' LT.
PCC STA. 87+40.19, 9.61' LT.

TEMP. CURVE NO. 3 DATA

Δ= 4°34'59" RT.
R = 2000'
T = 80.03'
L = 159.98'
PCC STA. 87+40.19, 9.61' LT.
PT STA. 89+0.00, 16' LT.

TEMP. CURVE NO. 4 DATA

Δ= 60°00'00" LT.
R = 360'
T = 207.85'
L = 376.99'
PC STA. 89+48.14, 16' LT.
PT STA. 93+48.09, 16' LT.

LEGEND

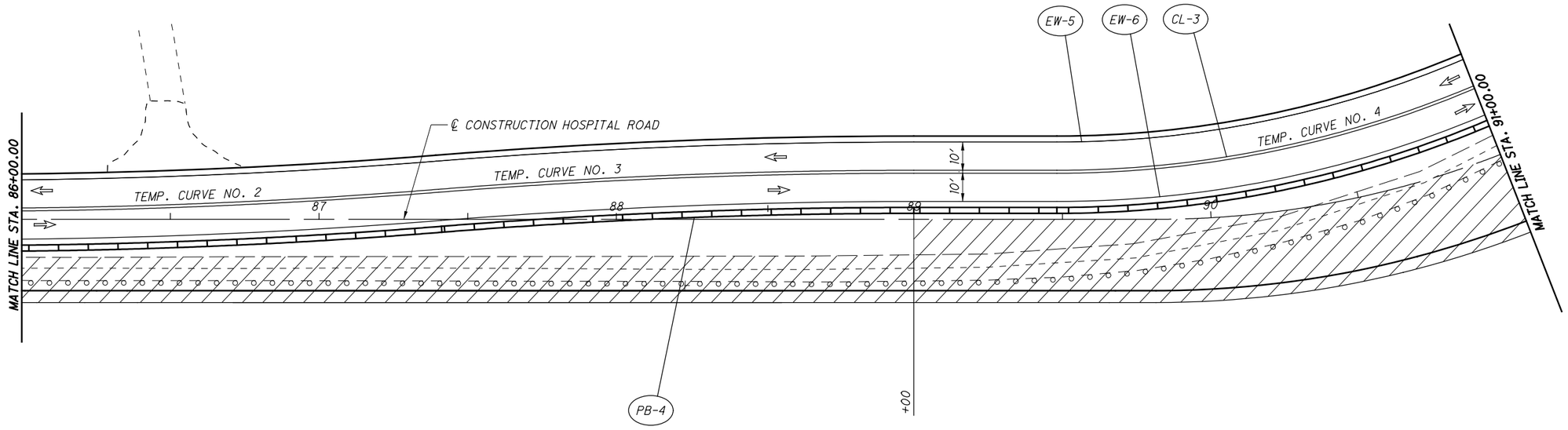
- *32" PORTABLE BARRIER*
- *WORK AREA*
- *PROPOSED SIGN*
- *IMPACT ATTENUATOR*
- *DIRECTION OF TRAVEL*
- *DRUMS*
- *TEMPORARY PAVEMENT*

IA - *WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)*

PB - *32" PORTABLE BARRIER*

EW - *WORK ZONE EDGE LINE, WHITE, 4"*

CL - *WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"*



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

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LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- EXISTING SIGN

(IA) - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

(PB) - 32" PORTABLE BARRIER

(EW) - WORK ZONE EDGE LINE, WHITE, 4"

(CL) - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"

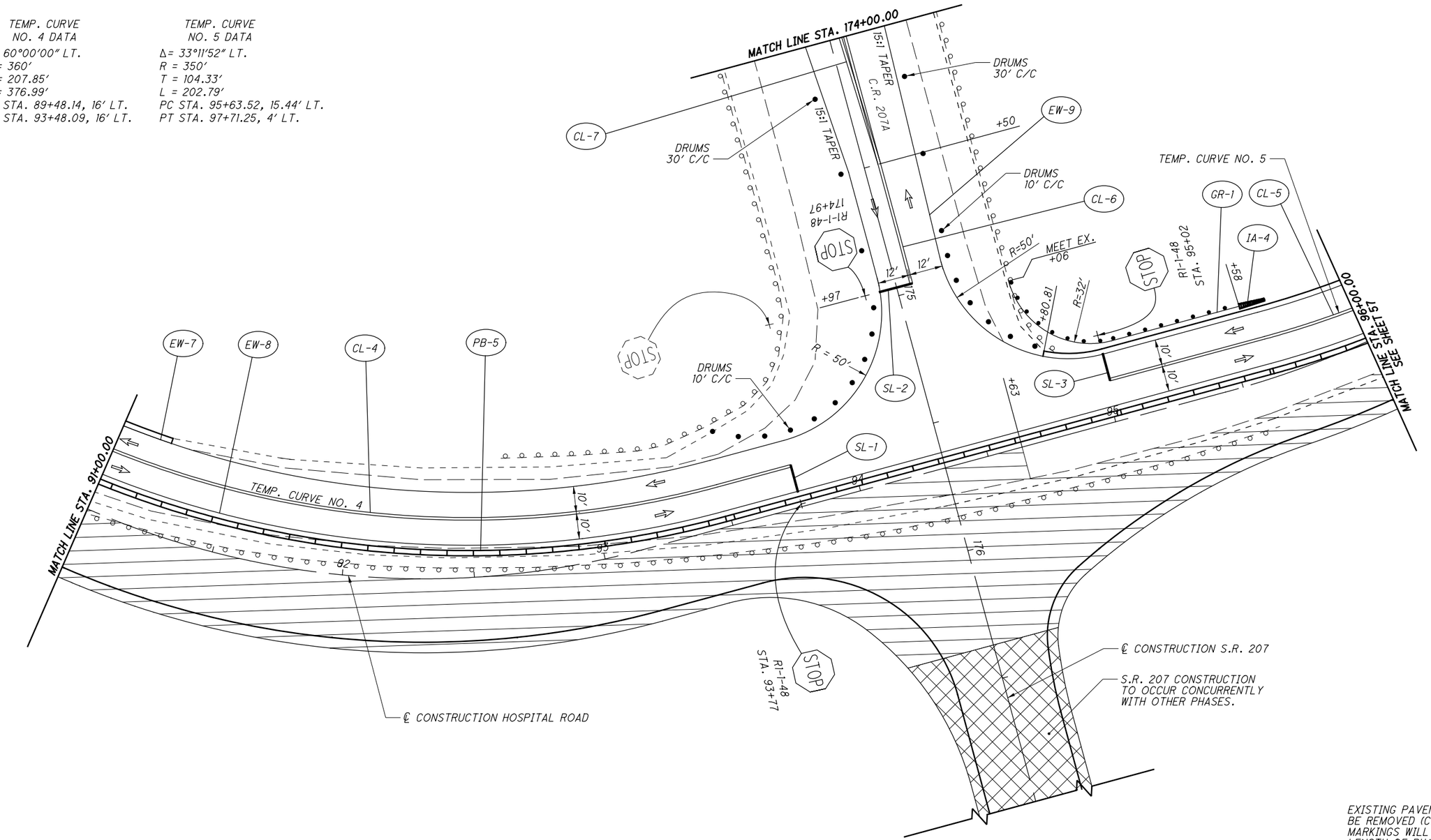
(GR) - WORK ZONE GUARDRAIL

(CH) - WORK ZONE CHANNELIZING LINE, WHITE, 8"

(SL) - WORK ZONE STOP LINE

TEMP. CURVE NO. 4 DATA
Δ= 60°00'00" LT.
R = 360'
T = 207.85'
L = 376.99'
PC STA. 89+48.14, 16' LT.
PT STA. 93+48.09, 16' LT.

TEMP. CURVE NO. 5 DATA
Δ= 33°11'52" LT.
R = 350'
T = 104.33'
L = 202.79'
PC STA. 95+63.52, 15.44' LT.
PT STA. 97+71.25, 4' LT.



EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

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TYPE A WARNING LIGHT



W20-1-48

A ROAD WORK AHEAD SIGN SHALL BE PLACED AT THE DIVERGENCE OF THE EXIT RAMP FROM U.S. 23 TO S.R. 207 IN BOTH DIRECTIONS.

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS

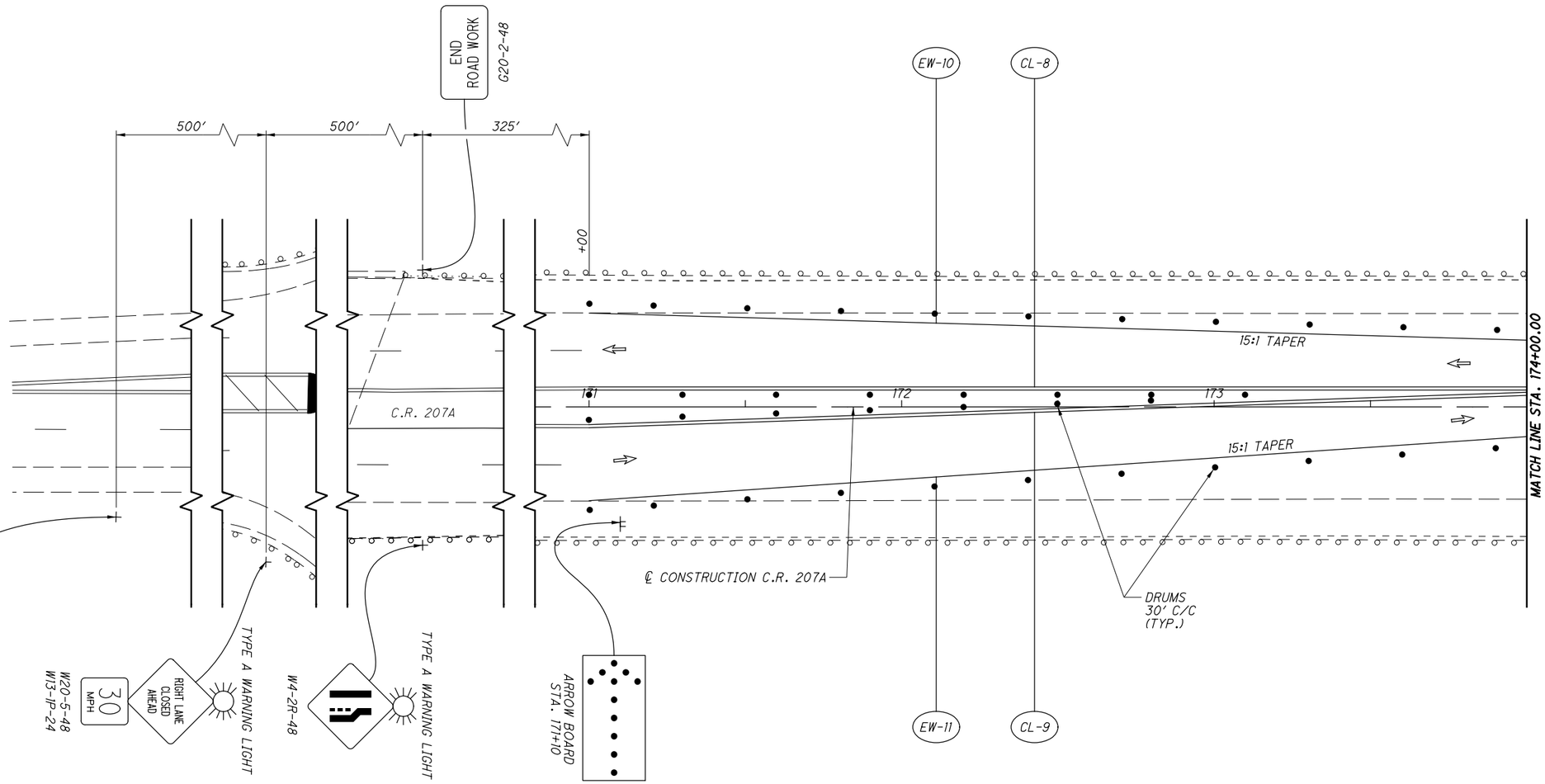
IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"

CH - WORK ZONE CHANNELIZING LINE, WHITE, 8"



EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

c:\pwworking\east01\d0244744\93744_MP024.dgn 5/2/2019 9:56:02 AM MLORENZ

TEMP. CURVE NO. 5 DATA

Δ= 33°11'52" LT.
R = 350'
T = 104.33'
L = 202.79'
PC STA. 95+63.52, 15.44' LT.
PT STA. 97+71.25, 4' LT.

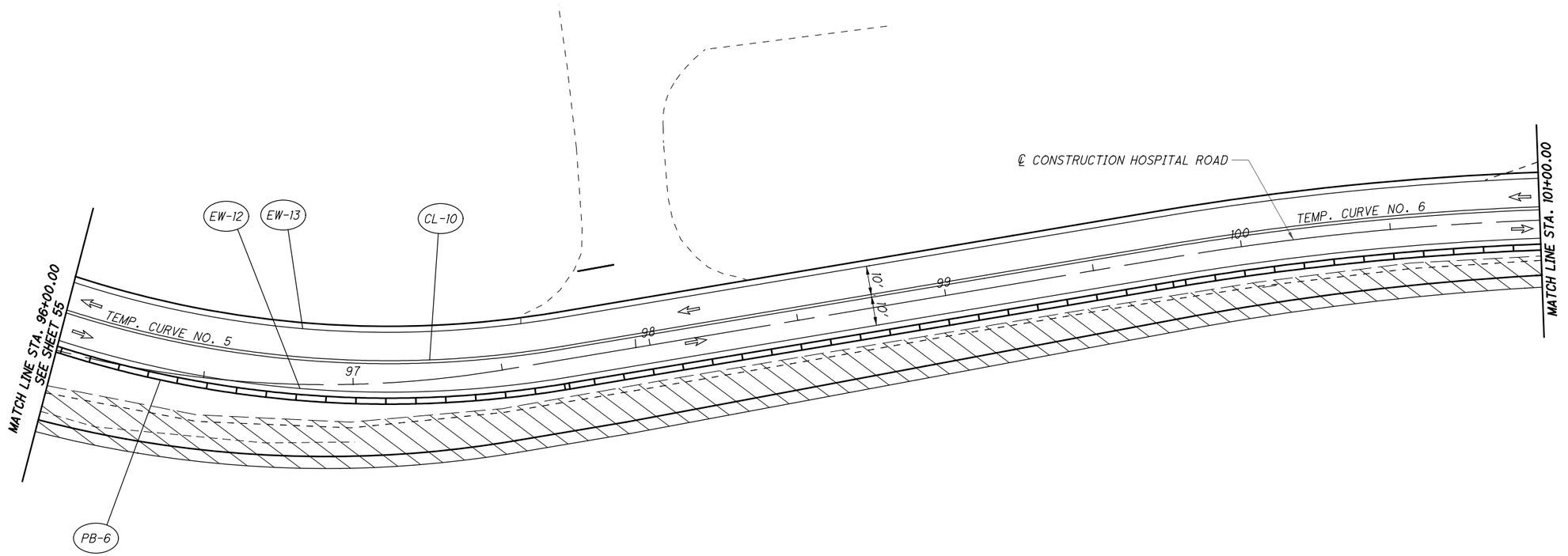
TEMP. CURVE NO. 6 DATA

Δ= 28°20'53" RT.
R = 960'
T = 242.45'
L = 474.97'
PC STA. 99+75.26, 4' LT.
PT STA. 104+48.27, 4' LT.

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
PB - 32" PORTABLE BARRIER
EW - WORK ZONE EDGE LINE, WHITE, 4"
CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 7

ROS-207-0.00

57
332

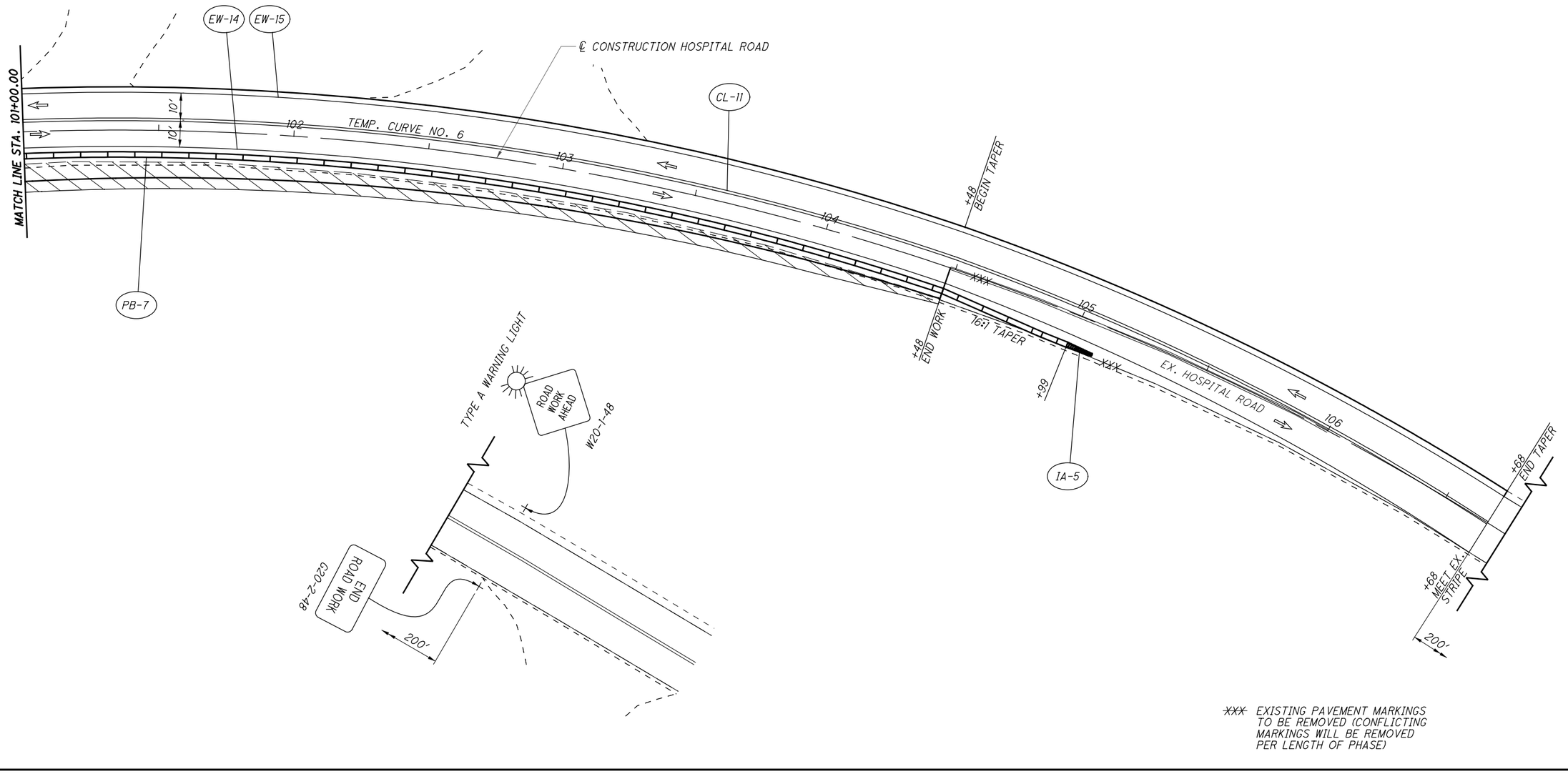
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TEMP. CURVE
NO. 6 DATA
Δ= 28°20'53" RT.
R = 960'
T = 242.45'
L = 474.97'
PC STA. 99+75.26, 4' LT.
PT STA. 104+48.27, 4' LT.

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
PB - 32" PORTABLE BARRIER
EW - WORK ZONE EDGE LINE, WHITE, 4"
CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



XXX EXISTING PAVEMENT MARKINGS TO BE REMOVED (CONFLICTING MARKINGS WILL BE REMOVED PER LENGTH OF PHASE)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC
PHASE 7

ROS-207-0.00

58
332

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LEGEND

- ⊤ - PROPOSED SIGN
- (TP) - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- ⇒ - DIRECTION OF TRAVEL
- - TEMPORARY PAVEMENT
- - WORK AREA
- - 32" PORTABLE BARRIER

EX. HOSPITAL ROAD

EX. RAMP

PROP. EDGE OF PAVEMENT

+46 14' RT.

+56 14' RT.

TP-1

+90 24' RT.

+81 26' RT.

℄ CONSTRUCTION HOSPITAL ROAD

R = 344.31'

MATCH LINE STA. 93+00.00

+66 28' RT.

TP-2

76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

59
332

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LEGEND

- ⊤ - PROPOSED SIGN
- TP - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- ⇒ - DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT
- WORK AREA
- 32" PORTABLE BARRIER

POT Sta. 169+00.00

EX. RAMP

EX. RAMP

EX. HOSPITAL ROAD

C.R. 207A

MATCH LINE STA. 93+00.00

+68
12.8' RT.

+39
14' RT.

TP-3

+92
36.54' RT.

TP-2

PROP. EDGE OF PAVMENT

℄ CONSTRUCTION HOSPITAL ROAD

S.R. 207 CONSTRUCTION
TO OCCUR CONCURRENTLY
WITH OTHER PHASES.

HORIZONTAL SCALE IN FEET
0 25 50 100

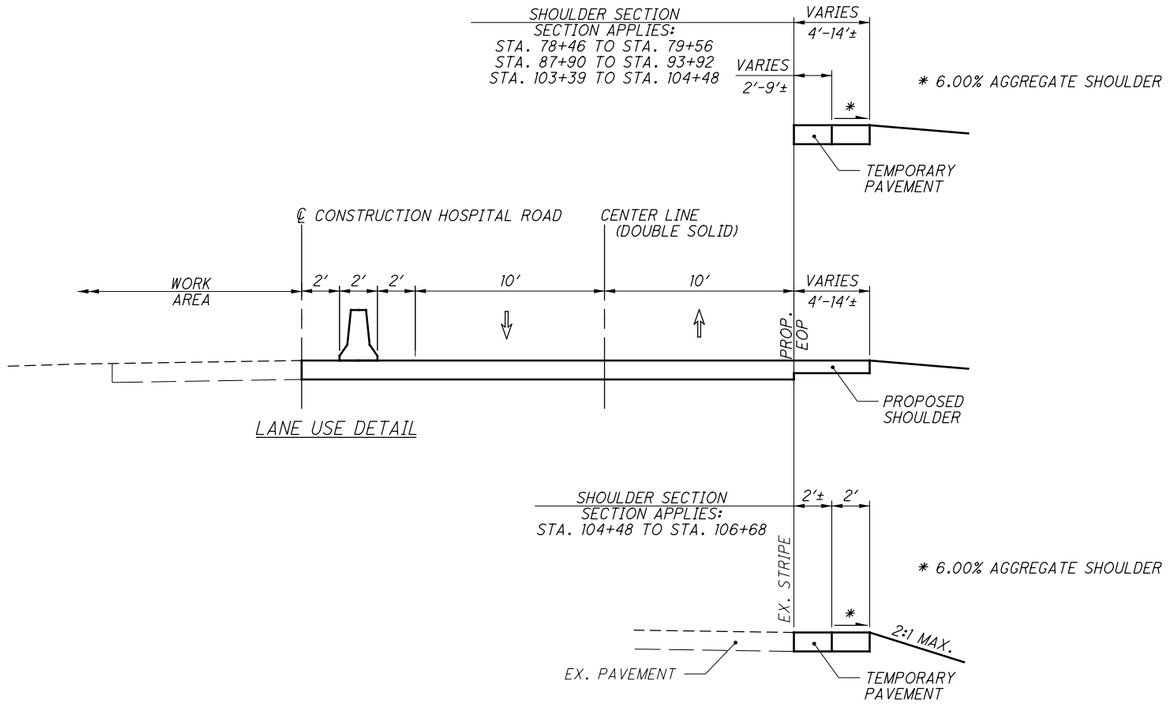
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 7

ROS-207-0.00

60
332

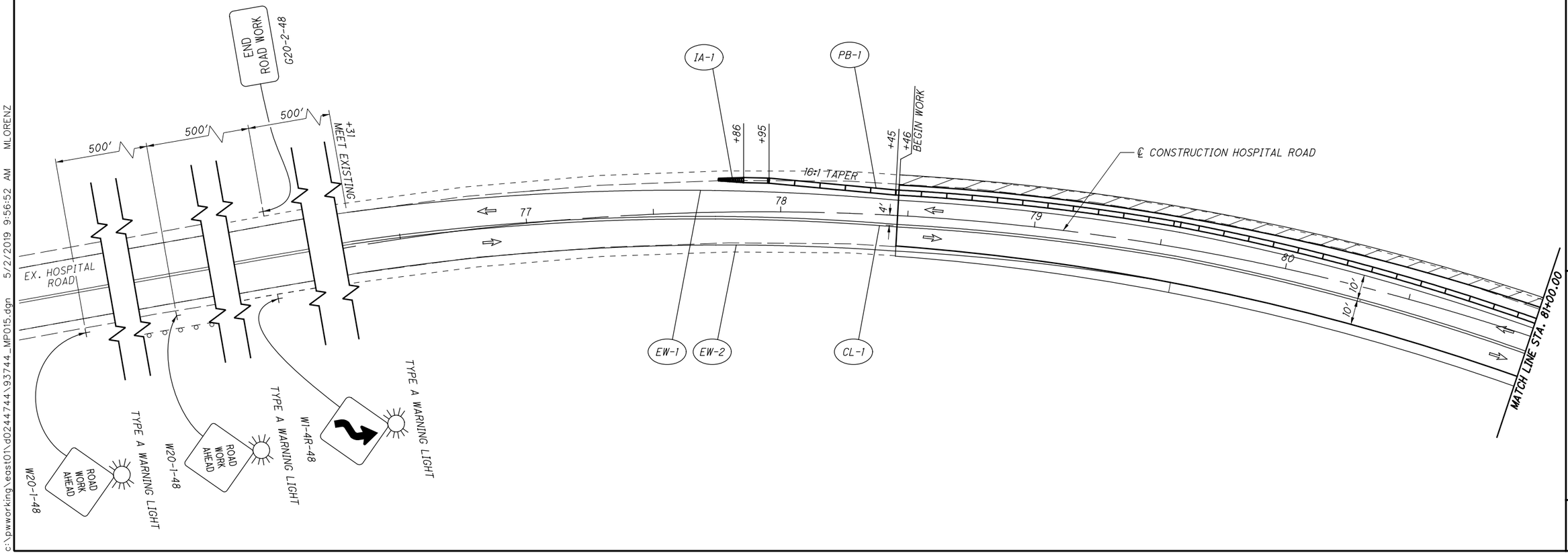
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LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32" PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4"
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

61
332

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LEGEND

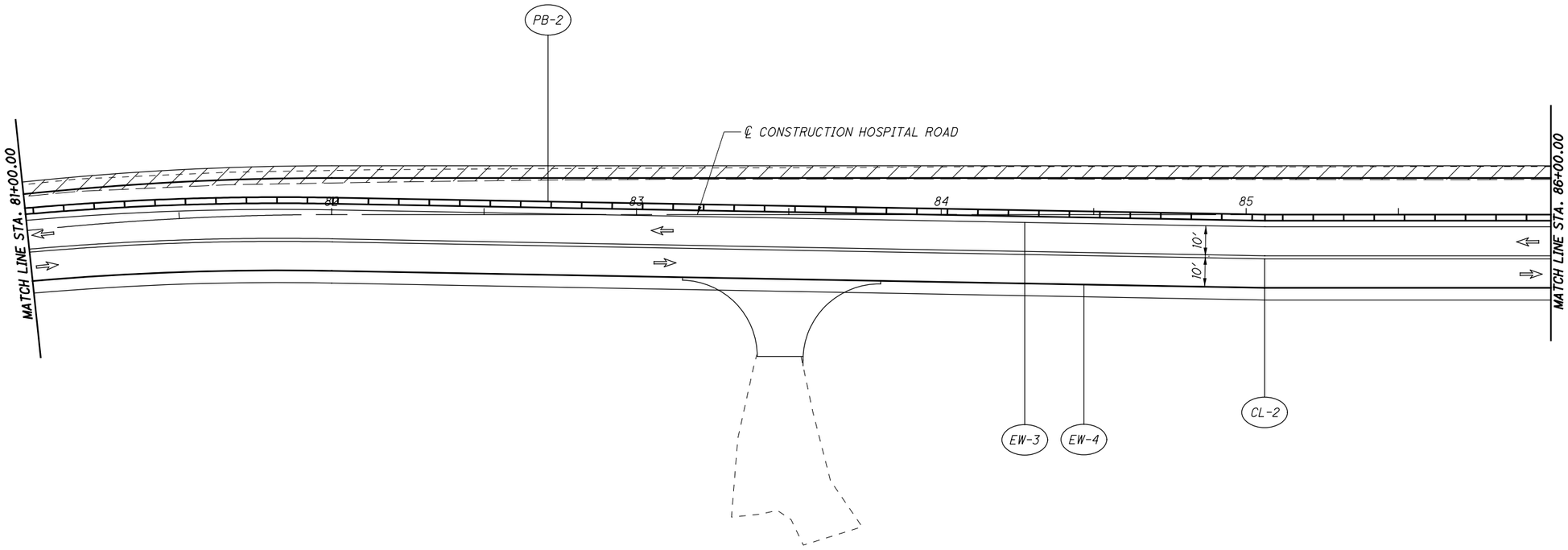
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

62
332

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LEGEND

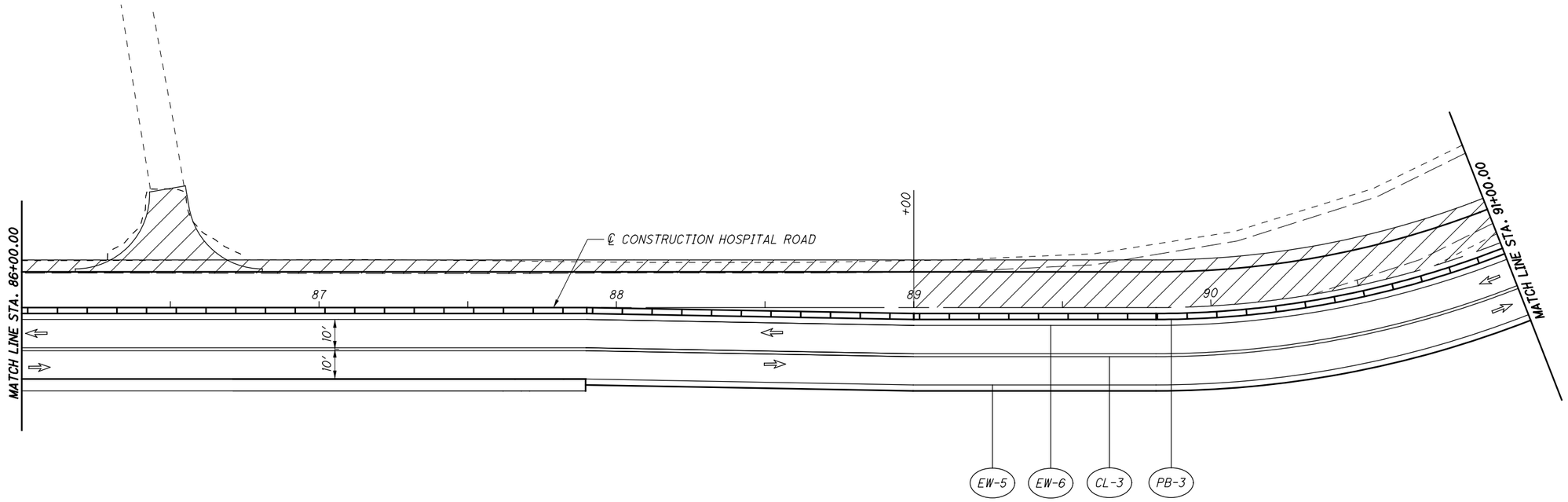
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



HORIZONTAL SCALE IN FEET
0 10 20 40

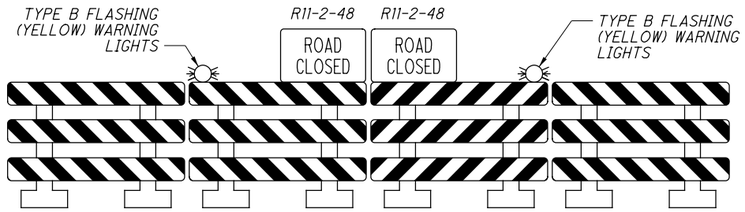
CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

63
332

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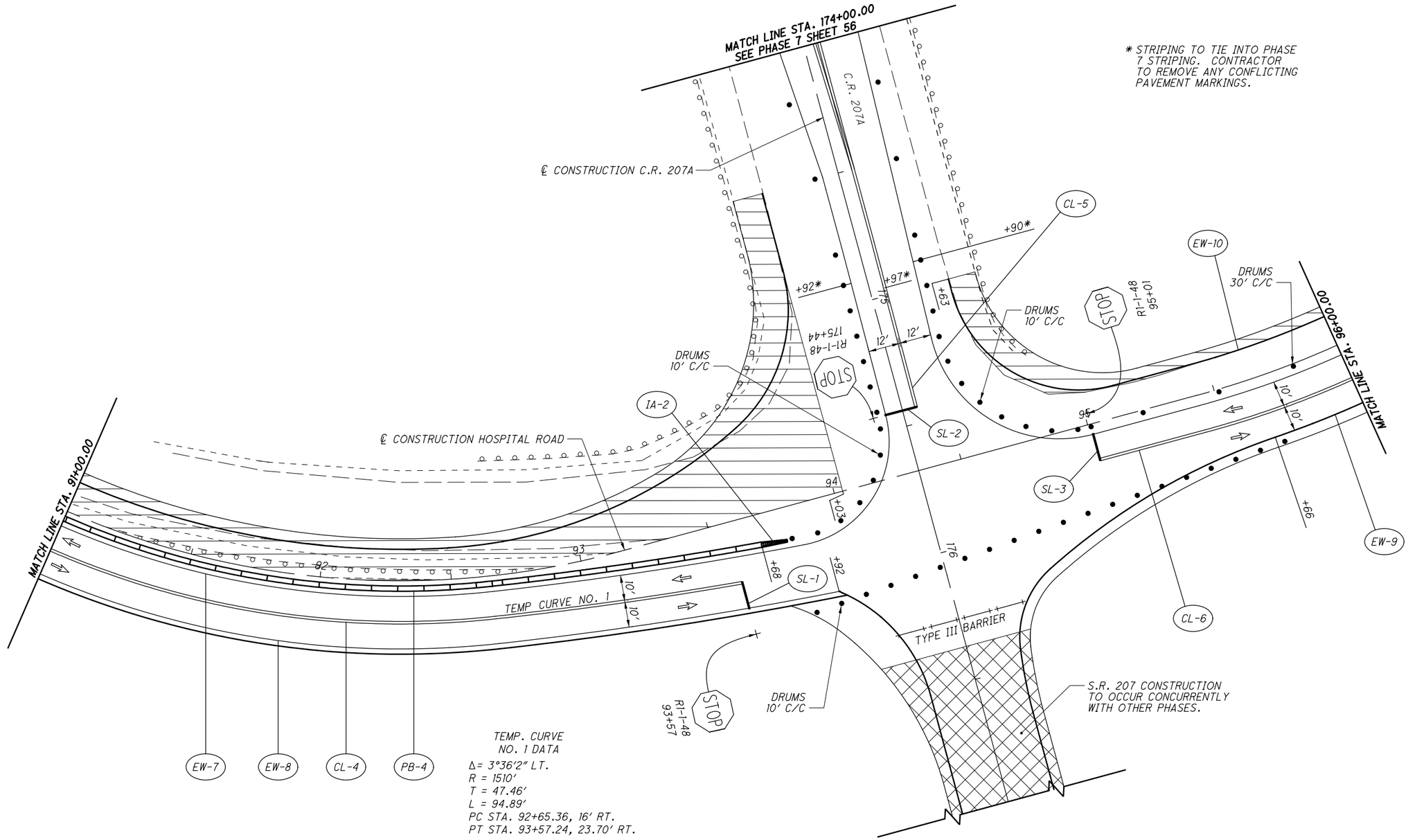
TYPE III BARRICADE

INSERT TYPE III BARRICADE CLOSURE WITH APPROPRIATE SIGNAGE PER MT-101.60.

LEGEND

- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

- IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)
- PB - 32" PORTABLE BARRIER
- EW - WORK ZONE EDGE LINE, WHITE, 4"
- CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



* STRIPING TO TIE INTO PHASE 7 STRIPING. CONTRACTOR TO REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

TEMP. CURVE NO. 1 DATA
Δ = 3°36'2" LT.
R = 1510'
T = 47.46'
L = 94.89'
PC STA. 92+65.36, 16' RT.
PT STA. 93+57.24, 23.70' RT.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

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LEGEND

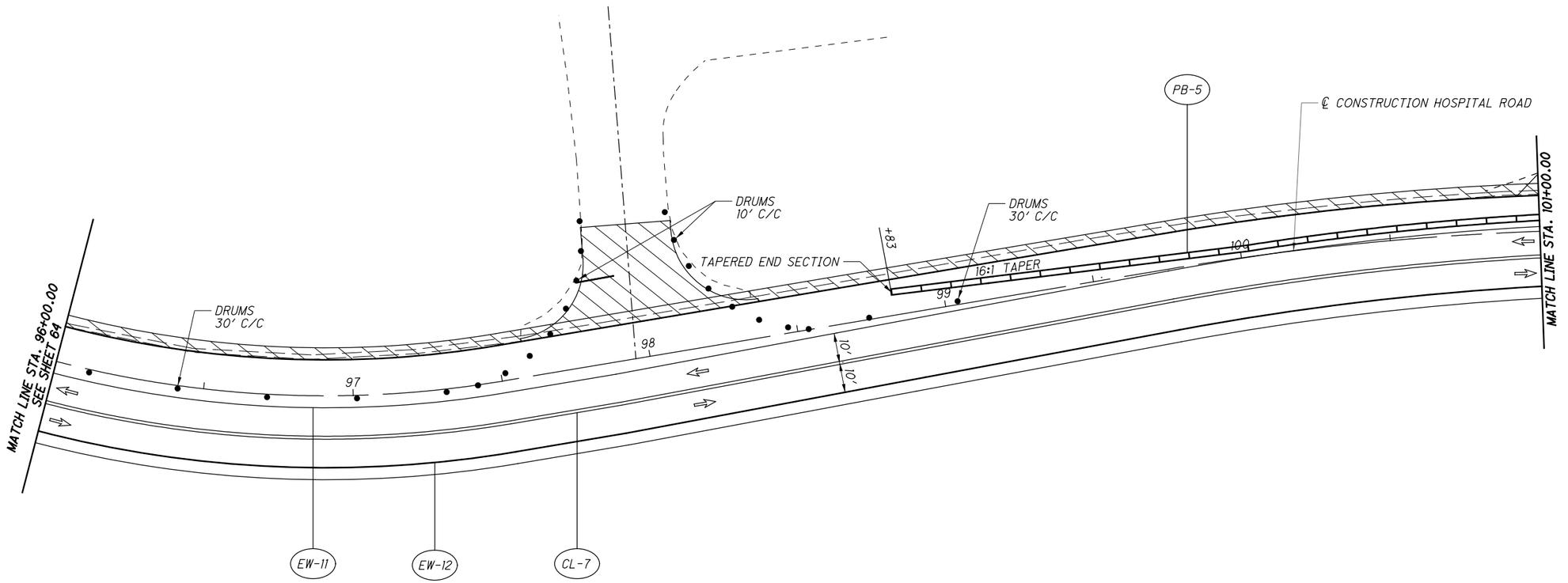
- 32" PORTABLE BARRIER
- WORK AREA
- PROPOSED SIGN
- IMPACT ATTENUATOR
- DIRECTION OF TRAVEL
- DRUMS
- TEMPORARY PAVEMENT

IA - WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)

PB - 32" PORTABLE BARRIER

EW - WORK ZONE EDGE LINE, WHITE, 4"

CL - WORK ZONE CENTER LINE, DOUBLE SOLID, YELLOW, 4"



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

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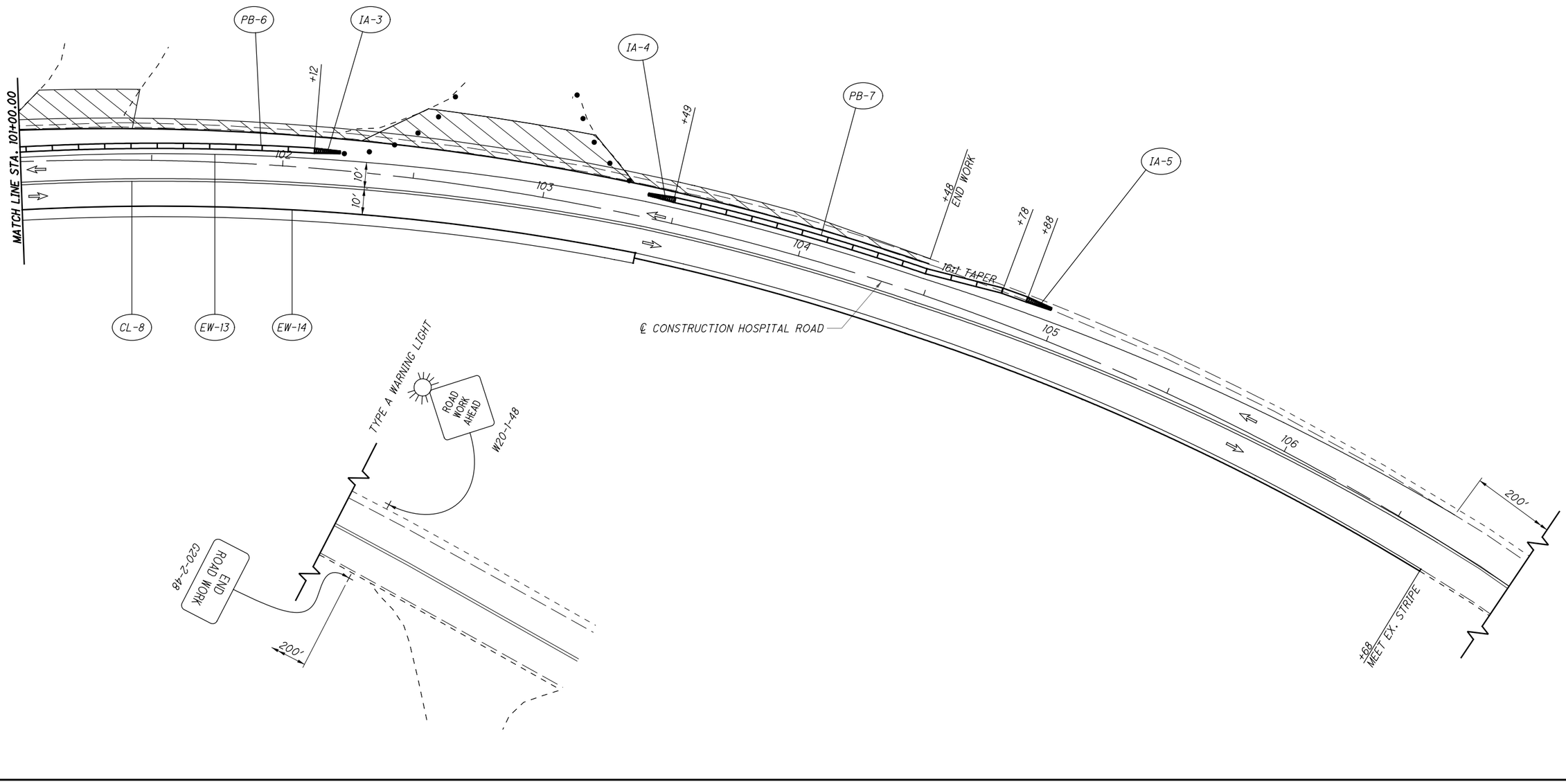
- 32" PORTABLE BARRIER
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- PROPOSED SIGN
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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SLP
CHECKED ALB

MAINTENANCE OF TRAFFIC PHASE 8

ROS-207-0.00

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SHEET NUM.															PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
16	17	71	72	73	74	75	76	77	212	235	240	241	243	247	01/STR/PV	02/STR/OT						
																					ROADWAY	
															LS	LS	201	11000	LS		CLEARING AND GRUBBING	
		2	5												2	5	201	21800	7	EACH	TREE REMOVED, 18"	
		1	2													3	201	26500	3	EACH	STUMP REMOVED, 18"	
								98								98	202	23000	98	SY	PAVEMENT REMOVED CONCRETE	
								10,156							8,190	1,966	202	23010	10,156	SY	PAVEMENT REMOVED, ASPHALT	
			55													55	202	30000	55	SF	WALK REMOVED	
		15														15	202	32000	15	FT	CURB REMOVED	
		64														64	202	35100	64	FT	PIPE REMOVED, 24" AND UNDER	
		183	1,472												1,472	183	202	38000	1,655	FT	GUARDRAIL REMOVED	
		2	4												4	2	202	42206	6	EACH	ANCHOR ASSEMBLY REMOVED	
		1													1		202	60010	1	EACH	MONUMENT ASSEMBLY REMOVED	
		31	1,297												1,200	128	202	75000	1,328	FT	FENCE REMOVED	
		2														2	202	98100	2	EACH	REMOVAL MISC.: BRICK PILLARS	
									15,314						11,656	3,658	203	10000	15,314	CY	EXCAVATION	
														2,095	1,956	139	203	10001	2,095	CY	EXCAVATION, AS PER PLAN	247
									15,314						11,656	3,658	203	20000	15,314	CY	EMBANKMENT	
													9		9		203	35110	9	CY	GRANULAR MATERIAL, TYPE B	
													25		25		203	35130	25	CY	GRANULAR MATERIAL, TYPE D	
									85,383						84,839	544	203	40000	85,383	CY	BORROW	
						3,036	11,202	3,857		2,479					13,141	7,433	204	10000	20,574	SY	SUBGRADE COMPACTION	
						439	259	79							518	259	204	13000	777	CY	EXCAVATION OF SUBGRADE	
						439	259	79							518	259	204	30020	777	CY	GRANULAR MATERIAL, TYPE C	
7,350															7,350		204	30031	7,350	CY	GRANULAR MATERIAL, TYPE D, AS PER PLAN	16
						7	5	3		2					13	4	204	45000	17	HOUR	PROOF ROLLING	
						1,738	822	315							2,053	822	204	50000	2,875	SY	GEOTEXTILE FABRIC	
						13,750		1,600							15,350		206	11000	15,350	SY	CURING COAT	
						13,750		1,600							15,350		206	15010	15,350	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
						325											206	10500	325	TON	CEMENT	
		50														50	606	13000	50	FT	GUARDRAIL, TYPE 5	
			1,703												1,703		606	15050	1,703	FT	GUARDRAIL, TYPE MGS	
		272														272	606	15100	272	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
		1	3												3	1	606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E, NCHRP 350 OR MASH 2016	
		1	3												3	1	606	26550	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		2														2	606	35140	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
		10,691													10,691		607	15000	10,691	FT	FENCE, TYPE 47	
	6														3	3	623	38500	6	EACH	MONUMENT ASSEMBLY, TYPE C	
	16														11	5	623	40500	16	EACH	REFERENCE MONUMENT, TYPE A	
		4													4		625	32000	4	EACH	GROUND ROD	
		9	36												36	9	626	00112	45	EACH	BARRIER REFLECTOR, TYPE 3	
		12	15												6	21	SPECIAL	69050350	27	EACH	MAILBOX REMOVED AND RESET	
															LS	LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																					EROSION CONTROL	
											8	10			18		601	10000	18	SY	RIPRAP, TYPE D - CONSTRUCT A 6" REINFORCED CONCRETE SLAB	
					36									108	115	29	601	21050	144	SY	TIED CONCRETE BLOCK MAT, TYPE 1	
													30		30		601	32100	30	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
				109							36	18			161	2	601	32200	163	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
														2,226	2,078	148	601	45050	2,226	CY	BIORETENTION CELL	
2															1	1	659	00100	2	EACH	SOIL ANALYSIS TEST	
15,979															12,783	3,196	659	00300	15,979	CY	TOPSOIL	
143,952														1,571	116,418	29,105	659	10000	145,523	SY	SEEDING AND MULCHING	
7,198															5,758	1,440	659	14000	7,198	SY	REPAIR SEEDING AND MULCHING	
7,119															5,695	1,424	659	15000	7,119	SY	INTER-SEEDING	
19.86															15.89	3.97	659	20000	19.86	TON	COMMERCIAL FERTILIZER	
29.42															23.54	5.88	659	31000	29.42	ACRE	LIME	
797															638	159	659	35000	797	MGAL	WATER	
				2,369											1,659	710	670	00710	2,369	SY	DITCH EROSION PROTECTION MAT, TYPE A	
														2,281	1,965	316	671	15000	2,281	SY	EROSION CONTROL MAT, TYPE A	
															LS	LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
															LS	LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
															LS	LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	

CALCULATED CLW
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GENERAL SUMMARY

ROS - 207 - 0.00

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SHEET NUM.													PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
16	71	72	73	74	75	76	77	235	240	241	243	247	01/STR/PV	02/STR/OT						
													356,996	89,249	832	30000	446,245	EACH	EROSION CONTROL	
			512										370	142	836	10000	512	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																			DRAINAGE	
			2						1.4	2.2			3.6	2	602	20000	5.6	CY	CONCRETE MASONRY	
				299									299		605	11110	299	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (24" DEPTH)	
				2,535										2,535	605	14020	2,535	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (12" DEPTH)	
				9,821									9,821		605	14020	9,821	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (18" DEPTH)	
			1,363										1,363		605	31100	1,363	FT	AGGREGATE DRAINS	
												974	743	231	605	98000	974	FT	UNDERDRAINS, MISC.::PERFORATED PVC UNDERDRAIN,707.41,707.42	
												240	26	214	611	00200	240	FT	4" CONDUIT, TYPE C:707.42, 707.45	
												41	30	11	611	00406	41	FT	4" CONDUIT, TYPE F:707.41,707.42	
				485									453	32	611	00510	485	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
100				312									279	133	611	01500	412	FT	6" CONDUIT, TYPE F:707.33	
			199											199	611	06100	199	FT	15" CONDUIT, TYPE C	
			363											363	611	07600	363	FT	18" CONDUIT, TYPE C	
									117				117		611	16200	117	FT	36" CONDUIT, TYPE A, 706.02, 707.33; 42" TYPE A, 707.01 (0.064) ALUMINIZED,	240
																			707.04 (0.064), 707.05 (0.064)	
			218											218	611	16400	218	FT	36" CONDUIT, TYPE B, SEE SHEET 239 FOR ALLOWABLE MATERIAL TYPES	239
										112			112		611	20700	112	FT	48" CONDUIT, TYPE A, 706.02, 707.33; 57" X 38" TYPE A, 707.01 (0.109) GALVANIZED,	241
																			W/ PAVED INVERT, 707.01 (0.109) ALUMINIZED, 707.04 (0.109), 707.05 (0.109)	
			29											29	611	52506	29	FT	24" X 38" CONDUIT, TYPE D, 706.04	
											98		98		611	94800	98	FT	8' X 4' CONDUIT, TYPE A, 706.05	241
			3											3	611	98150	3	EACH	CATCH BASIN, NO. 3	
			5											5	611	98470	5	EACH	CATCH BASIN, NO. 2-2B	
			1											1	611	99574	1	EACH	MANHOLE, NO. 3	
				18								1	18	1	611	99710	19	EACH	PRECAST REINFORCED CONCRETE OUTLET	
												1		1	611	99711	1	EACH	PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN,	250
																			SERIES 3800 TYPE R FLAP, 38A FRESNO	
																			PAVEMENT	
					3,189	673	6,276						9,465	673	254	01000	10,138	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
					1,704	1,050	956						3,086	624	301	46000	3,710	CY	ASPHALT CONCRETE BASE, PG64-22	
					3,684	2,697	1,835	457					6,706	1,967	304	20000	8,673	CY	AGGREGATE BASE	
					2,079	1,096	1,168	7					3,638	712	407	10000	4,350	GAL	TACK COAT	
					4,182	1,224	2,335						6,738	1,003	422	20000	7,741	SY	DOUBLE CHIP SEAL	
					638	313	398						1,147	202	441	50000	1,349	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
					739	451	869						1,764	295	441	50300	2,059	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
								17					10	7	441	50400	17	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
								6					6		441	50600	6	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)	
								87						87	452	10010	87	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	
		855											428	427	452	14010	855	SY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	
	968												968		609	12000	968	FT	COMBINATION CURB AND GUTTER, TYPE 2	
	888													888	609	18001	888	FT	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN	
		628											314	314	609	22001	628	FT	CURB, TYPE 3-B, AS PER PLAN	
		440											220	220	609	26000	440	FT	CURB, TYPE 6	
	786	116											606	296	609	54000	902	SY	6" CONCRETE TRAFFIC ISLAND	

CALCULATED CLW
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GENERAL SUMMARY

ROS-207-0.00

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
243	258	255	287								01/STR/PV	02/STR/OT						
																	LIGHTING	
			36								18	18	625	00450	36	EACH	CONNECTION, FUSED PULL APART	
			21								12	9	625	00480	21	EACH	CONNECTION, UNFUSED PERMANENT	
			18								9	9	625	10490	18	EACH	LIGHT POLE, CONVENTIONAL, AT8B30	
			18								9	9	625	14100	18	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
			7,699								4,213	3,486	625	23200	7,699	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
			2,700								1,350	1,350	625	23400	2,700	FT	NO. 10 AWG POLE AND BRACKET CABLE	
			180									180	625	25400	180	FT	CONDUIT, 2", 725.04	
			2,262								1,345	917	625	25402	2,262	FT	CONDUIT, 2", 725.05	
			18								9	9	625	26253	18	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-II-M, LED, 10500-12500 LUMENS	288
			2,330								1,345	985	625	29000	2,330	FT	TRENCH	
			10								4	6	625	30700	10	EACH	PULL BOX, 725.08, 18"	
			18								9	9	625	32000	18	EACH	GROUND ROD	
			2								1	1	625	34000	2	EACH	POWER SERVICE	
			2								1	1	625	34450	2	EACH	CONTROL CENTER CABINET, COMPLETE	
			2,330								1,345	985	625	36000	2,330	FT	PLASTIC CAUTION TAPE	
																	TRAFFIC CONTROL	
	361										288	73	621	00100	361	EACH	RPM	
	26										26		621	00101	26	EACH	RPM, AS PER PLAN	251
		1,393.5									811.4	582.1	630	03100	1,393.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
		90.5									56.5	34	630	04100	90.5	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
		26									16	10	630	08600	26	EACH	SIGN POST REFLECTOR	
		654.5									398.7	255.8	630	80100	654.5	SF	SIGN, FLAT SHEET	
		2									2		630	80500	2	EACH	SIGN, DOUBLE FACED, STREET NAME	
		48									20	28	630	84900	48	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
		1									1		630	85001	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN	251
		1										1	630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
		39									15	24	630	86002	39	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		2										2	632	90104	2	EACH	REUSE OF TRAFFIC CONTROL ITEM :SOLAR POWERED SIGN FLASHER ASSEMBLY	251
	5.34										4.32	1.02	644	00104	5.34	MILE	EDGE LINE, 6"	
	0.09										0.09		644	00204	0.09	MILE	LANE LINE, 6"	
	2.72										2.23	0.49	644	00300	2.72	MILE	CENTER LINE	
	2,220										2,220		644	00400	2,220	FT	CHANNELIZING LINE, 8"	
	83										83		644	00500	83	FT	STOP LINE	
	685										685		644	00700	685	FT	TRANSVERSE/DIAGONAL LINE	
	33										29	4	644	01300	33	EACH	LANE ARROW	
	8										5	3	644	01410	8	EACH	WORD ON PAVEMENT, 96"	
	98										98		644	01500	98	FT	DOTTED LINE, 4"	
	238										127	111	644	01514	238	FT	DOTTED LINE, 8"	
	120										60	60	644	20800	120	FT	YIELD LINE	
	98										98		644	30000	98	FT	REMOVAL OF PAVEMENT MARKING	
																	STRUCTURE 20 FOOT SPAN AND UNDER	
LS											LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
LS											LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
2,366											2,366		509	10000	2,366	LB	EPOXY COATED REINFORCING STEEL	
30											30		511	46001	30	SY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	243
26											26		511	46510	26	CY	CLASS QC1 CONCRETE, FOOTING	
56											56		512	10100	56	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
238											238		512	33000	238	SY	TYPE 2 WATERPROOFING	
30											30		516	13600	30	SF	1" PREFORMED EXPANSION JOINT FILLER	
LS											LS		518	21230	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC	

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GENERAL SUMMARY

ROS-207-0.00

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
19	20	21	26									01/STR/PV	02/STR/OT						
																		MAINTENANCE OF TRAFFIC	
62												43	19	301	46000	62	CY	ASPHALT CONCRETE BASE, PG64-22	
93												65	28	304	20000	93	CY	AGGREGATE BASE	
31												21	10	407	10000	31	GAL	TACK COAT	
50												35	15	410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
20												14	6	441	50000	20	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
		80										56	24	614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	3,540											2,832	708	614	11630	3,540	FT	INCREASED BARRIER DELINEATION	
			100									100		SPECIAL	61412200	100	FT	WORK ZONE GUARDRAIL	20
			31									25	6	614	12338	31	EACH	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	
			LS									LS	LS	614	12420	LS		DETOUR SIGNING	
5												3	2	614	12500	5	EACH	REPLACEMENT SIGN	
10												7	3	614	12600	10	EACH	REPLACEMENT DRUM	
	217											188	29	614	13310	217	EACH	BARRIER REFLECTOR, TYPE 1 BIDIRECTIONAL	
10												7	3	614	13314	10	EACH	BARRIER REFLECTOR, TYPE 3 BIDIRECTIONAL	
10	217											197	30	614	13360	227	EACH	OBJECT MARKER, TWO WAY	
	24											16	8	614	18601	24	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	20
			2.2									1.97	0.23	614	21000	2.2	MILE	WORK ZONE CENTER LINE, CLASS I	
			4.96									4.01	0.95	614	22000	4.96	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
			109									66.32	42.68	614	26000	109	FT	WORK ZONE STOP LINE, CLASS I	
			LS									LS	LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
			8,214									7,171.37	1,042.63	615	25000	8,214	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
522												417	105	616	10000	522	MGAL	WATER	
			10,760									9,300	1,460	622	41000	10,760	FT	PORTABLE BARRIER, 32"	
																		INCIDENTALS	
LS												LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
												19	5	619	16020	24	MNTH	FIELD OFFICE, TYPE C	
												LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	LS	624	10000	LS		MOBILIZATION	

CALCULATED CLW
CHECKED DMV

GENERAL SUMMARY

ROS-207-0.00

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REF. NO.	SHEET NO.	STATION TO STATION		SIDE	201 TREE REMOVED, 18" EACH	201 STUMP REMOVED, 18" EACH	202 CURB REMOVED FT	202 PIPE REMOVED, 24" AND UNDER FT	202 GUARDRAIL REMOVED FT	202 ANCHOR ASSEMBLY REMOVED EACH	202 MONUMENT ASSEMBLY REMOVED EACH	202 FENCE REMOVED FT	202 REMOVAL MISC.: BRICK PILLARS EACH	606 GUARDRAIL, TYPE 5 FT	606 GUARDRAIL, TYPE MGS WITH LONG POSTS FT	606 ANCHOR ASSEMBLY, MGS TYPE E - NCHRP 350 OR MASH 2016 EACH	606 ANCHOR ASSEMBLY, MGS TYPE T EACH	626 BARRIER REFLECTOR, TYPE 3 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 4 EACH	607 FENCE, TYPE 47 FT	609 COMBINATION CURB AND GUTTER, TYPE 2 FT	609 COMBINATION CURB AND GUTTER, TYPE 3, APP FT	609 6" CONCRETE TRAFFIC ISLAND SY	625 GROUND ROD EACH	690 SPECIAL: MAILBOX REMOVED AND RESET EACH
		S.R. 207																								
F-1	81-93 ,121	88+99	209+77	RT																3812						
F-2	81-93 ,123	99+10	209+63	RT/LT																3674						
F-3	93-97 ,101	210+20	123+25	LT																1586				2		
F-4	93-97 ,103	210+23	112+77	RT/LT																1620				2		
P-1	97	219+00	222+00	RT/LT																			275			
P-2	97	219+14	117+28	RT/LT																	429					
P-3	97	221+05	120+12	LT																	243					
		S.R. 159																								
P-4	99	109+60		RT																						1
R-1	99	109+65		RT								16														
R-2	99	109+97		RT	1																					
P-5	99	110+14		RT																						1
R-3	99	110+20		RT	1																					
R-4	99	110+43		LT							1															
R-5	99	110+45		RT								15														
P-6	99	111+09		RT																						3
P-7	101 , 97	116+00	118+04	RT/LT																			166			
P-8	97	117+30	120+16	RT																	295					
P-9	97 , 103	119+38	121+40	RT/LT																			165			
P-10	103	123+87		RT																						1
R-6	107	134+06		RT		1																				
P-11	107	134+28		RT																						1
P-12	109	135+08		RT																						1
R-7	109	136+13	136+45	RT									2													
R-8	109	136+17	136+41	RT			15																			
P-13	109	136+45		RT																						1
P-14	109	136+84		RT																						1
P-15	109	137+18		RT																						1
R-9	109	138+37	138+64	RT				29																		
P-16	109	138+60		RT																						1
P-17	109 - 111	139+43	238+61	RT																				231		
P-18	111	139+57	140+58	RT/LT																					84	
P-19	111	139+67	143+07	LT																				398		
P-20	111	141+99	143+22	RT/LT																					96	
GR-1	111 - 113	142+06	144+56	RT										25	222	1		6	1							
R-10	111	142+29	142+61	RT/LT				36																		
R-11	111 - 113	143+06	144+50	LT					129	1																
P-21	111	143+08	239+43	RT/LT																				260		
GR-2	113	143+60	144+50	LT										25	50		1	3	1							
R-12	113	143+91	144+57	RT					54	1																
TOTALS CARRIED TO GENERAL SUMMARY					2	1	15	64	183	2	1	31	2	50	272	1	1	9	2	10691	968	888	786	4	12

CALCULATED ARG
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ROADWAY SUBSUMMARY

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REF. NO.	SHEET NO.	STATION TO STATION		SIDE	201 TREE REMOVED, 18" EACH	201 STUMP REMOVED, 18" EACH	202 WALK REMOVED SF	202 GUARDRAIL REMOVED FT	202 ANCHOR ASSEMBLY REMOVED EACH	202 FENCE REMOVED FT	452 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 SY	606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, MGS TYPE E - NCHRP 350 OR MASH 2016 EACH	606 ANCHOR ASSEMBLY, MGS TYPE T EACH	626 BARRIER REFLECTOR, TYPE 3 EACH	609 CURB, TYPE 3-B, APP FT	609 CURB, TYPE 6 FT	609 6" CONCRETE TRAFFIC ISLAND SY	690 SPECIAL: MAILBOX REMOVED AND RESET EACH
		S.R. 180																	
P-22	111	238+11	239+38	RT/LT														116	
P-23	111	239+66		LT															1
R-13	115	240+38		RT	1														
P-24	113	240+40		LT															3
P-25	113	241+10		LT															2
R-14	115	241+27		RT	1														
R-15	115	241+31		RT	1														
P-26	113	241+52		LT															1
R-16	115	241+52		LT			28												
R-17	115	241+86		RT		1													
P-27	113	242+01		LT															2
P-28	113	242+31		LT															1
R-18	115	242+34		LT			5												
P-29	113	242+73		LT															1
R-19	115	243+04		RT		1													
R-20	115	243+04		RT	1														
R-21	115	243+06		LT			22												
P-30	113	243+80		LT															4
R-22	115	244+30	244+76	RT						89									
R-23	115	244+40		RT	1														
R-24	115	244+92	245+12	RT						39									
		HOSPITAL ROAD																	
GR-3	81, 119-121	83+59	93+61	RT								1021	1	1	18				
R-25	81, 119-121	83+64	95+59	RT				1189	2										
R-26	81, 121-123	88+86	99+11	RT						1169									
R-27	81	92+65	93+90	LT				168	1										
GR-4	81	93+27	93+90	LT								113		1	4				
GR-5	81 , 123	94+75	96+26	LT								163	1		6				
R-28	81	94+75	95+70	LT				115	1										
GR-6	81 , 123	94+99	99+13	RT								407	1	1	8				
P-31	97	S.R. 207 & S.R. 159 ROUNDABOUT														314			
P-32	97	S.R. 207 & S.R. 159 ROUNDABOUT									428								
P-33	97	S.R. 207 & S.R. 159 ROUNDABOUT															220		
P-34	111	S.R. 180 & S.R. 159 ROUNDABOUT														314			
P-35	111	S.R. 180 & S.R. 159 ROUNDABOUT									428								
P-36	111	S.R. 180 & S.R. 159 ROUNDABOUT															220		
TOTALS CARRIED TO GENERAL SUMMARY					5	2	55	1472	4	1297	855	1703	3	3	36	628	440	116	15

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ROADWAY SUBSUMMARY

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REF. NO.	SHEET NO.	STATION TO STATION		SIDE	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (CY)	602 CONCRETE MASONRY (CY)	605 AGGREGATE DRAINS (FT)	611 15" CONDUIT, TYPE C (FT)	611 18" CONDUIT, TYPE C (FT)	611 36" CONDUIT, TYPE B (FT)	611 24" X 38" CONDUIT, TYPE D, 706.04 (FT)	611 CATCH BASIN, NO. 3 (EACH)	611 CATCH BASIN, NO. 2-2B (EACH)	611 MANHOLE, NO. 3 (EACH)	670 DITCH EROSION PROTECTION MAT, TYPE A (SY)	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (SY)	
D-1	115	244+50	243+50	RT				100					1				
D-2	115	243+50	242+50	RT				99					1				
D-3	115	242+50	241+50	RT					99				1				
D-4	115	241+50	240+00	RT					154				1				
D-5	111 , 115	240+00	238+95	RT					110				1				
D-6	111	238+95		RT		0.3											
D-7	111 , 239	238+70		RT		0.7				56							
D-8	111 , 239	238+70	142+36	RT/LT						65		1					
D-8A	111 , 239	142+36	142+42	RT						30				1			
D-9	111 , 239	142+42	142+41	RT/LT						37		1					
D-10	111 , 239	142+41	142+41	LT						30		1					
D-11	111 , 239	142+41		LT		0.7											
D-12	109 , 239	138+34	138+63	RT	2						29						
	117 - 125	HOSPITAL ROAD		LT/RT			1363										
		S.R. 207															
E-1	81	176+24	177+00	LT												121	
E-2	81 - 83	177+00	180+79	LT											473		
E-3	83	180+98	181+50	LT											48		
E-4	83	181+50	185+00	LT											292		
		S.R. 159 AND S.R. 180															
E-5	109	137+50	138+34	RT												142	
E-6	109 - 111	138+70	238+95	RT											480		
E-7	109	139+39	139+46	RT											6		
E-8	111	139+64	139+71	LT											13		
E-9	111	238+57	238+65	RT											13		
E-10	111	142+02	142+34	LT											27		
E-11	111 - 113	143+14	144+37	LT											171		
		HOSPITAL ROAD															
E-12	121	91+10	91+94	RT	107												
E-13	81 , 121	91+94	93+36	RT												249	
E-14	81, 123 - 125	95+66	102+37	RT											846		
TOTALS CARRIED TO GENERAL SUMMARY					109	2.0	1363	199	363	218	29	3	5	1	2369	512	

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DRAINAGE SUBSUMMARY - STORM AND EROSION CONTROL

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REF. NO.	SHEET NO.	STATION TO STATION		SIDE	601 TIED CONRETE BLOCK MAT, TYPE 1 SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (24" DEPTH) FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (12" DEPTH) FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (18" DEPTH) FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 6" CONDUIT, TYPE F, 707.33 FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH
		S.R. 207									
U-1	81 - 83	175+93	182+00	RT	2			564	26		1
U-2	81 - 83	175+96	182+00	LT	2			564	25		1
U-3	83 - 85	182+00	187+88	RT	2			588	26		1
U-4	83 - 85	182+00	187+88	LT	2			588	26		1
U-5	85 - 87	187+88	192+20	RT				432			
U-6	85 - 87	187+88	192+00	LT				412			
U-8	87 - 89	192+50	198+00	LT	2			550	26		1
U-7	87 - 89	192+70	198+00	RT	2			530	26		1
U-9	89 - 91	198+00	203+00	RT	2			500	26		1
U-10	89 - 91	198+00	203+00	LT	2			500	26		1
U-11	91 - 93	203+00	208+00	RT	2			501	26		1
U-12	91 - 93	203+00	207+77	LT	2			476	26		1
U-13	93 - 95	208+00	212+97	RT	2			495	26		1
U-14	95 - 97	212+97	218+41	RT				541			
U-15	97	218+41	222+25	RT	2			395	26		1
U-16	97	218+41	222+34	LT				406		32	
		S.R. 159									
U-17	97, 99 - 101	110+35	117+63	LT	2			726	25		1
U-18	101 , 97	116+80	117+63	RT				83		44	
U-19	97	117+63	118+29	LT				70			
U-20	97	117+63	118+47	RT				105			
U-21	97 , 103	118+47	120+70	RT				210		34	
U-22	97 , 103	119+24	123+35	LT	2			424	20		1
U-23	103 - 105	123+35	125+62	LT	2	226			15		1
U-24	103 - 105	124+90	125+62	RT		72				26	
U-25	107 - 109	133+97	134+76	RT			79			26	
U-26	107 - 109	133+97	139+26	LT	2		525		14		1
U-27	109 - 111	139+26	140+67	RT			154			33	
U-28	109 - 111	139+26	141+27	LT			233				
U-29	111	141+90	142+39	RT			54				
U-30	111	141+27	142+38	LT			141				
U-31	111 - 113	142+45	144+25	RT			186				
U-32	111 - 113	142+44	144+25	LT			176				
		S.R. 180									
U-33	111	237+72	238+65	RT			95			38	
U-34	111	238+22	238+67	LT			58				
U-35	111 , 115	238+75	240+79	RT			208			36	
U-36	111 , 115	238+73	240+79	LT			202				
U-37	115	240+79	241+63	RT			84				
U-38	115	241+52	245+05	RT			341		18		
		HOSPITAL ROAD									
U-39	81	93+62	94+33	RT	2			71	50	21	1
U-40	81	94+33	95+34	RT	2			91	35	22	1
TOTALS CARRIED TO GENERAL SUMMARY					36	299	2535	9821	485	312	18

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DRAINAGE SUBSUMMARY - UNDERDRAINS

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STATION TO STATION		SIDE	LENGTH L	AVERAGE WIDTH W	SURFACE AREA A (SF) A=LxW	PLANIMETERED AREAS	204					206		254	301	304		407		422	441		
							SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	PROOF ROLLING	GEOTEXTILE FABRIC	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	CURING COAT (0.03 GAL/SY)	1-1/4" PAVEMENT PLANING, ASPHALT CONCRETE	4" ASPHALT CONCRETE BASE, PG 64-22	6" AGGREGATE BASE (5" FOR S.R. 159 SHOULDERS)	8" AGGREGATE BASE	TACK COAT (0.06 GAL/SY)	TACK COAT (0.08 GAL/SY)	DOUBLE CHIP SEAL	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
							SY	CY	CY	HOUR	SY	SY	SY	SY	CY	CY	CY	GAL	GAL	SY	CY	CY	CY
C.R. 207A																							
171+00.00	174+50.00		350	82	28,700									3189					255		111		
S.R. 207																							
176+85.96	182+56.75		571	36	20,548													274			79	111	
				36.67	20,929										258								
				37.67	21,500											398							
				39	22,261					0.82		2473	2473										
				8	4,566												113			507			
182+56.75	186+16.68		360	30	10,798													144			42	58	
				30.67	11,038										136								
				31.67	11,398											211							
				33	11,878					0.44		1320	1320										
				8	2,879												71			320			
186+16.68	216+60.00		3,043	24	73,040										902			974			282	395	
				24.67	75,069																		
				25.67	78,112											1447							
				27	82,170					3.04		9130	9130										
				8	24,347												601			2705			
216+60.00	219+00.00		240	28	6,720										83			90			26	36	
				28.67	6,880																		
				29.67	7,120											132							
				31	7,440					0.28		827	827										
				8	1,920												47			213			
S.R. 159																							
110+35.00	110+50.00		15	23.9	359													5			1	2	
				24.57	369										5								
				25.57	384		43			0.01						7							
				3.85	58											1	1			6			
110+50.00	113+60.00		310	24	7,440													99			29	40	
				24.67	7,647										94								
				25.67	7,957		884			0.29						147							
				4	1,240											19	31			138			
113+60.00	116+00.00		240	28	6,720													90			26	36	
				28.67	6,880										85								
				29.67	7,120		791			0.26						132							
				4	960											15	24			107			
121+40.00	123+80.00		240	28	6,720													90			26	36	
				28.67	6,880										85								
				29.67	7,120		791			0.26						132							
				4	960											15	24			107			
123+50.00	123+80.00		30	31	930			69	69		1183												
123+80.00	125+30.00		150	24	3,600													48			14	19	
				24.67	3,700										46								
				25.67	3,850		428			0.14						71							
				4	600											9	15			67			
				27	4,050			300	300		450												
125+30.00	125+65.00		35	23.9	837													11			3	5	
				24.57	860										11								
				25.57	895		99			0.03						17							
				3.15	110											2	3			12			
				26.9	942			70	70		105												
SUB TOTALS							3036	439	439	6.43	1738	13750	13750	3189	1704	2754	929	1824	255	4182	638	739	0
TOTALS CARRIED TO GENERAL SUMMARY							3036	439	439	7.00	1738	13750	13750	3189	1704	3684		2079		4182	638	739	

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PAVEMENT SUBSUMMARY

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STATION TO STATION		SIDE	LENGTH L	AVERAGE WIDTH W	SURFACE AREA A (SF) A=LxW	PLANIMETERED AREAS	204					254	301	304		407		422	441			
							SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	PROOF ROLLING	GEOTEXTILE FABRIC	1-1/4" PAVEMENT PLANING, ASPHALT CONCRETE	4" ASPHALT CONCRETE BASE, PG 64-22	6" AGGREGATE BASE (6" FOR S.R. 159 SHOULDERS)	8" AGGREGATE BASE	TACK COAT (0.06 GAL/SY)	TACK COAT (0.08 GAL/SY)	DOUBLE CHIP SEAL	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22	VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
							SY	CY	CY	HOUR	SY	SY	CY	CY	CY	GAL	GAL	SY	CY	CY	CY	CY
S.R. 159																						
133+96.80	136+50.00					6,095.57										41	54		24		33	
		RT				339.15							4									
		LT				560.27							7									
		RT				466.38	52			0.02				9								
		LT				686.24	76			0.03				13								
		RT				612.47								9	15			68				
		LT				499.90								8	12			56				
	OFFICE CALCULATION					5,364.96						596										12
136+50.00	139+42.00		292	32	9,344											125			36		50	
				32.67	9,539								118									
				33.67	9,831		1092			0.36				182								
				4	1,168									18	65			130				
137+00.00	139+00.00		200	35	7,000			259	259		822											
143+22.39	144+25.00		103	29	2,936											39			11		16	
				29.28	3,004								37									
				30.28	3,107		345			0.12				58								
				4	410									6	23			46				
144+25.00	144+53.49		28	24	696							77										
				4	114									2	6			13				
S.R. 180																						
239+40.00	241+79.92		240	28	6,718											90			26		36	
				28.67	6,878								85									
				29.67	7,118		791			0.40				132								
				4	960										53			107				
241+79.92	244+45.00		265	24	6,362											85			25		34	
				24.67	6,539								81									
				25.67	6,804		756			0.38				126								
				4	1,060										59			118				
243+90.05	244+45.00	LT	55	2	110										6			12				
244+45.00	245+05.00		60	23	1,386											18			5		7	
				23.77	1,426								18									
				24.77	1,486		165			0.08				28								
				4	240										13			27				
		LT		2	120										7			13				
S.R. 159 & S.R. 207 ROUNDABOUT																						
						28,806.36										384			111		156	
						34,522.59							426									
						42,440.18	4716			1.57				786								
	S.R. 207 SHLD'S					945.80									53			105				
	S.R. 159 SHLD'S					1,047.81								16	58			116				
S.R. 180 & S.R. 159 ROUNDABOUT																						
						19,540.79										261			75		106	
						22,265.45							275									
						28,878.31	3209			1.07				535								
	S.R. 159 SHLD'S					141.84								2	8			16				
	S.R. 180 SHLD'S					167.88									9			19				
	ROUNDABOUT SHLD					3,421.74									380			380				
SUB TOTALS							11202	259	259	4.62	822	673	1050	1929	768	1042	54	1224	313	0	439	12
TOTALS CARRIED TO GENERAL SUMMARY							11202	259	259	5.00	822	673	1050	2697		1096		1224	313		451	

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PAVEMENT SUBSUMMARY

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CALCULATED ARG
CHECKED MJL

STATION TO STATION		SIDE	LENGTH L	AVERAGE WIDTH W	SURFACE AREA A (SF) A=LxW	PLANIMETERED AREAS	202		204					206		254	301		304			407		422	441		
							PAVEMENT REMOVED, CONCRETE	PAVEMENT REMOVED, ASPHALT	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	PROOF ROLLING	GEOTEXTILE FABRIC	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	CURING COAT (0.03 GAL/SY)	1-1/4" PAVEMENT PLANING, ASPHALT CONCRETE	4" ASPHALT CONCRETE BASE, PG 64-22	8" ASPHALT CONCRETE BASE, PG 64-22	6" AGGREGATE BASE (5" FOR S.R. 159 SHOULDERS)	8" AGGREGATE BASE	VAR. DEPTH AGGREGATE BASE	TACK COAT (0.06 GAL/SY)	TACK COAT (0.08 GAL/SY)	DOUBLE CHIP SEAL	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
							SY	SY	SY	CY	CY	HOUR	SY	SY	SY	SY	CY	CY	CY	CY	CY	GAL	GAL	SY	CY	CY	CY
S.R. 207/C.R. 207A & HOSPITAL ROAD INTERSECTION																											
174+50.00	176+85.96		236			23,272.00																155			90		
93+55.30	95+13.29		158			13,900.60																93				75	
						1,833.99											23										
						11,607.64												287									
						760.44						0.03		84	84					23							
						13,636.60						0.51		1515	1515				253								
						934.45													17	23				104			
						813.14														25				90			
	OFFICE CALCULATION					8,752.47										972					108						363
HOSPITAL ROAD																											
78+46.00	85+06.00		660	30	19,800											1760						158	141		76	107	
				7	4,510													111									
				7	4,840				538			0.27							90									
				8	5,280														98	130				587			
78+46.00	82+00.00		354	6	2,124					79	79		315														
85+06.00	89+00.00		394	36	14,184											1051						126	84		55	77	
				13	5,056													125									
				13	5,253				584			0.29							97									
				8	3,152														58	78				350			
89+00.00	92+49.81		350	36	12,593																	168			49	68	
				37.67	13,176													325									
				38.67	13,526				1503			0.75							250									
				8	2,798														52	69				311			
92+49.81	93+32.32		83	40	3,294																	44			13	18	
				41.59	3,432													85									
				42.59	3,514				390			0.20							65									
				8	660														12	16				73			
95+13.29	95+66.33		53	40	2,143											141						14			8	12	
				17	888				99			0.05								22								
				8	424															10				47			
95+66.33	97+88.00		222	36	7,980											591						53			31	43	
				12	2,734				304			0.15								68								
				8	1,773															44				197			
97+88.00	104+48.00		660	30	19,800											1760						132			76	107	
				6	3,960				440			0.22								98								
97+88.00	103+98.00		610	8	4,880															120				542			
103+98.00	104+48.00		50	6	300															7				33			
78+46.00	104+48.00			OFFICE CALCULATION				3617																			
	S.R. 159																										
110+35.00	125+65.00			OFFICE CALCULATION				4573																			
133+96.80	144+30.00			OFFICE CALCULATION			83																				
	S.R. 180																										
238+50.00	245+05.00			OFFICE CALCULATION			15	1966																			
SUB TOTALS							98	10156	3857	79	79	2.83	315	1600	1600	6276	23	933	993	735	108	944	225	2335	398	506	363
TOTALS CARRIED TO GENERAL SUMMARY							98	10156	3857	79	79	3.00	315	1600	1600	6276	956		1835			1168		2335	398	869	

ROS-207-0.00

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PROJECT DESCRIPTION

CONSTRUCTION OF A 0.89 MILE EXTENSION OF S.R. 207 FROM THE EXISTING INTERCHANGE AT U.S. 23 TO S.R. 159, SOUTH OF S.R.180, WITH A PROPOSED ROUNDABOUT. PROJECT ALSO INCLUDES A PROPOSED ROUNDABOUT AT THE INTERSECTION OF S.R. 159 AND S.R. 180, RESURFACING AND WIDENING OF HOSPITAL ROAD, AND ALL ASSOCIATED DRAINAGE, TRAFFIC CONTROL AND LIGHTING.

USGS QUADRANT - KINGSTON, OHIO

LONGITUDE: W 82° 57′ 52″
LATITUDE: N 39° 25′ 07″

* LONGITUDE AND LATITUDE TO APPROX. CENTER OF THE PROJECT

= EARTH DISTURBED AREA IN SHEET FLOW

BMP TYPE	LATITUDE/LONGITUDE				BMP LENGTH (FEET)	EDA TREATMENT CREDIT (ACRES)
	BEGIN		END			
BIORETENTION CELL #1	39.414377	82.973659	39.415799	82.971787	740	8.4
BIORETENTION CELL #2	39.425104	82.954557	39.425652	82.954398	237	1.1
				TREATMENT PROVIDED		9.5
				TREATMENT REQUIRED *		7.8

* CALCULATED PER L&D VOL. 2 SEC. 115.7

OVERALL PROJECT DATA

TOTAL AREA (RIGHT OF WAY)	46.71 AC	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.54
PROJECT EARTH DISTURBED AREA	26.88 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.64
PROJECT EARTH DISTURBED AREA (IN SHEET FLOW)	8.50 AC	IMMEDIATE RECEIVING WATERS	KINNIKINNICK CREEK
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	6.97 AC	SUBSEQUENT RECEIVING WATER	SCIOTO RIVER
NOTICE OF INTENT EARTH DISTURBED AREA	33.85 AC	POST CONSTRUCTION BMP:	BIORETENTION CELLS WERE PROVIDED TO MEET POST-CONSTRUCTION REQUIREMENTS. SEE BIORETENTION CELL P & P SHEETS FOR DETAILS
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	5.72 AC		
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	10.20 AC		

HORIZONTAL SCALE IN FEET
0 150 300 600

CALCULATED CLW
CHECKED DMV

PROJECT SITE PLAN

ROS-207-0.00

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Ex LA-R/W

Ex LA-R/W

Ex LA-R/W

Ex LA-R/W

BEGIN WORK
STA. 171+00.00

CONSTRUCTION LIMITS

POT Sta. 169+00.00

U.S. 23 NB ON RAMP

℄ CONSTRUCTION C.R. 207A

169 170 171 172 173

10.5'±

30'±

30'±

11.5'±

MATCH LINE STA. 174+00, SEE SHEET 81

U.S. 23 NB OFF RAMP

CONSTRUCTION LIMITS

Ex LA-R/W

Ex LA-R/W

Ex LA-R/W

Ex LA-R/W

Ex LA-R/W

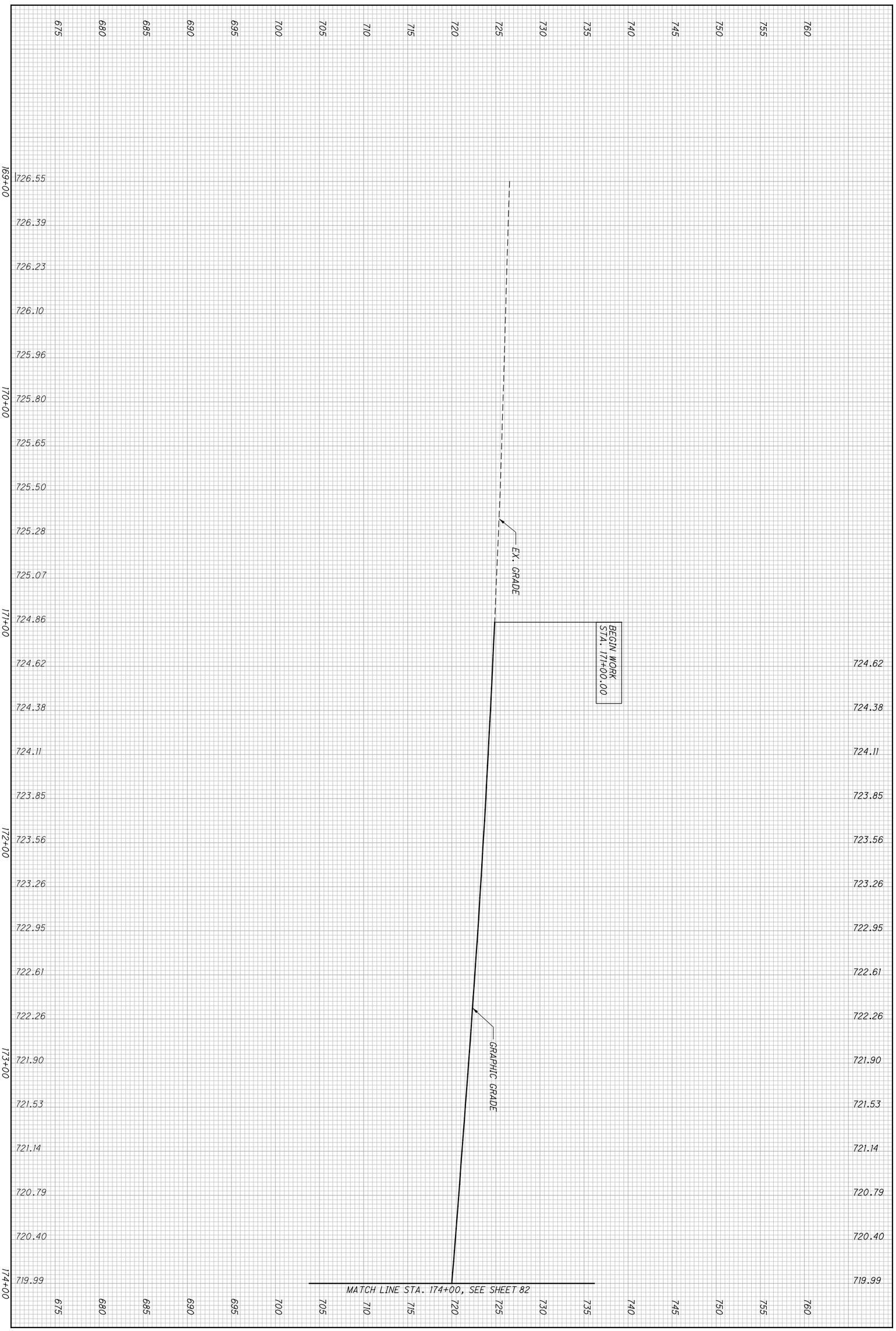
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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

PLAN SHEET - C.R. 207A
BEGIN WORK TO STA. 174+00

ROS-207-0.00



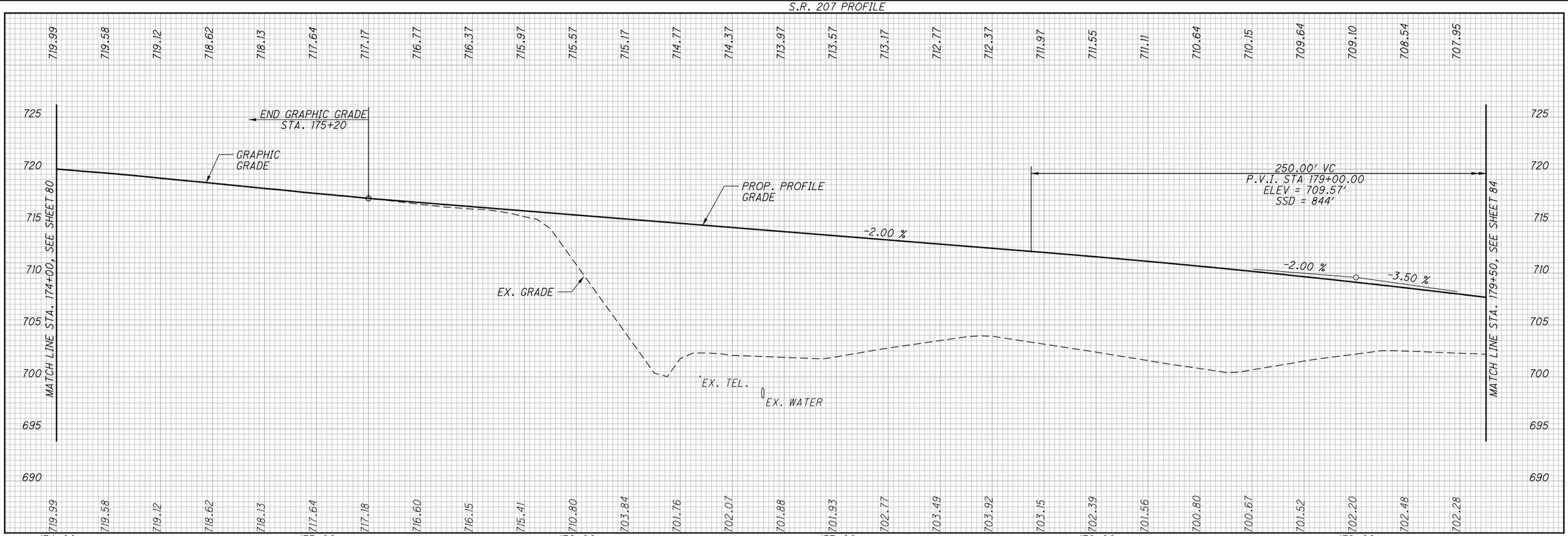
80 / 332	ROS-207-0.00	PROFILE - C.R. 207A BEGIN WORK TO STA. 174+00	CALCULATED CLW CHECKED DMV

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

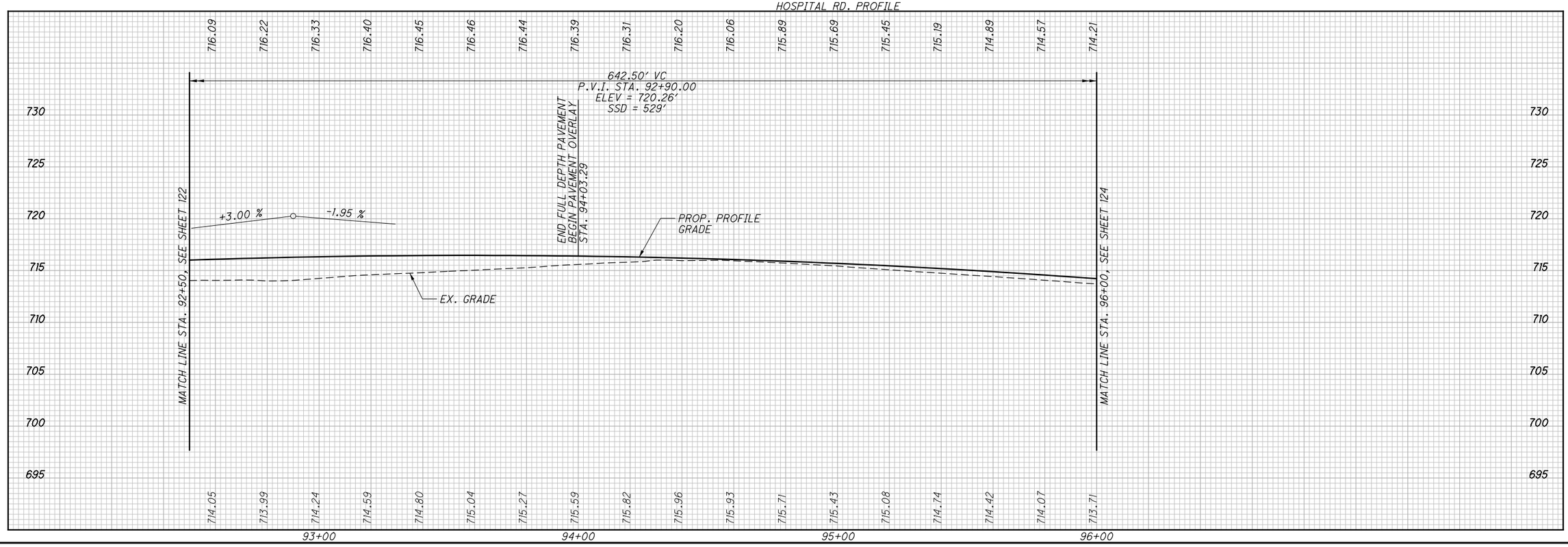
ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

MATCH LINE STA. 96+00, SEE SHEET 123
CURVE 7
GUARDRAIL TYPE MGS
PC Sta. 95+43.07
SAWCUT
CONSTRUCTION LIMITS
+00.00 TIE TO EX. TYPE 5 GUARDRAIL, MGS-4.3
GR-5
50' R
R-28
SAWCUT
℄ CONSTRUCTION HOSPITAL ROAD
SEE INTERSECTION DETAIL SHEET220 FOR PAVEMENT LAYOUT
MATCH LINE STA. 174+00, SEE SHEET 79
STA. 175+67.55 ℄ CONST. C.R. 207A =
STA. 175+67.55 ℄ CONST. S.R. 207 =
STA. 94+33.29 ℄ CONST. HOSPITAL ROAD
SAWCUT
SAWCUT
CONSTRUCTION LIMITS
+50.00 TIE TO EX. TYPE 5 GUARDRAIL, MGS-4.3
180' R
40' R
180' R
GUARDRAIL TYPE MGS
GR-4
+27.29 END ANCHOR TYPE T
PT Sta. 93+14.78
R-27
CURVE 6
MATCH LINE STA. 92+50, SEE SHEET 121
SAWCUT
GUARDRAIL TYPE MGS
+34
250' R
GR-6
+00.00 END ANCHOR TYPE E
35' R
180' R
U-40
(R-25)
+36.00
TELEPHONE (DND)
E170 (943)
BEGIN PROJECT STA. 175+67.55 S.L.M. = 0.00
N 15° 00' 00" W
U-39
+62
+61.30 END ANCHOR TYPE E
GR-3
(R-26)
GUARDRAIL TYPE MGS
12" WATER (DND)
DITCH EROSION PROTECTION MAT, TYPE A 11' X 692' = 846 SY
E-14
TURF REINFORCING MAT, TYPE 1 11' X 99' = 121 SY
E-1
+51.45 53.47' LT
EX. TELEPHONE AND 12" WATER TO BE RELOCATED BY OTHERS AT DITCH CROSSING
U-2
U-1
PROP. UNDERDRAIN OUTLET TYP. DM-1.1
+57.08 66.32' RT
EX. FENCE (TBR)
TURF REINFORCING MAT, TYPE 1, 11' X 203.5' = 249 SY
E-13
CORNER POST ASSEMBLY STA: 177+66.72 OFFSET: 130.07 RT
Ex LA-R/W
Ex U
W
Ex U
Ex U
Ex U
Ex LA-R/W
Ex LA-R/

S.R. 207 PROFILE



HOSPITAL RD. PROFILE

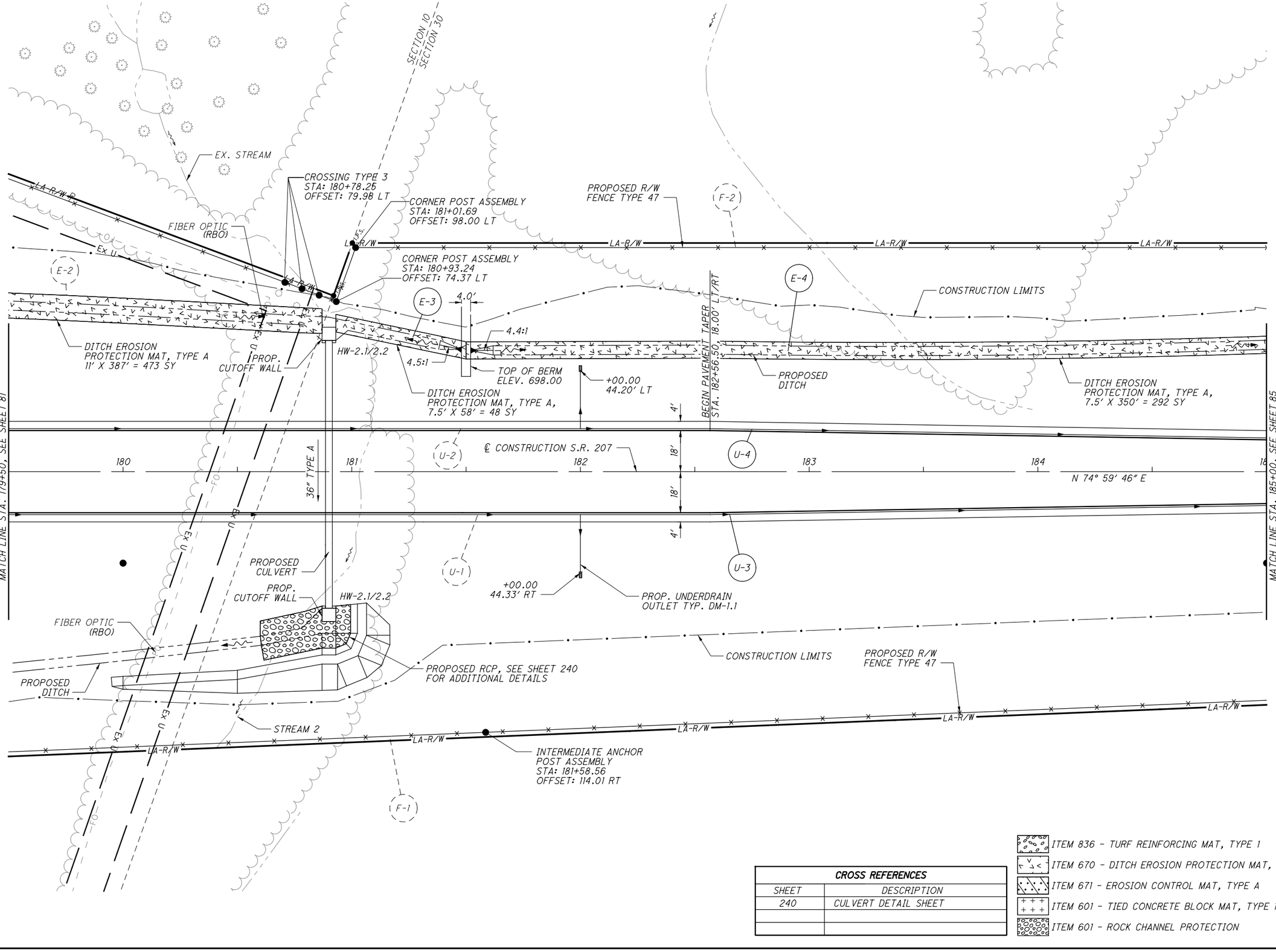


PROFILE - C.R. 207A/S.R. 207 (HOSPITAL RD. INTERSECTION) STA. 174+00 TO STA. 179+50

CALCULATED CLW
CHECKED DMV

ROS-207-0.00

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CROSS REFERENCES	
SHEET	DESCRIPTION
240	CULVERT DETAIL SHEET

ITEM 836 - TURF REINFORCING MAT, TYPE 1

ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A

ITEM 671 - EROSION CONTROL MAT, TYPE A

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

ITEM 601 - ROCK CHANNEL PROTECTION

HORIZONTAL SCALE IN FEET
0 10 20 40

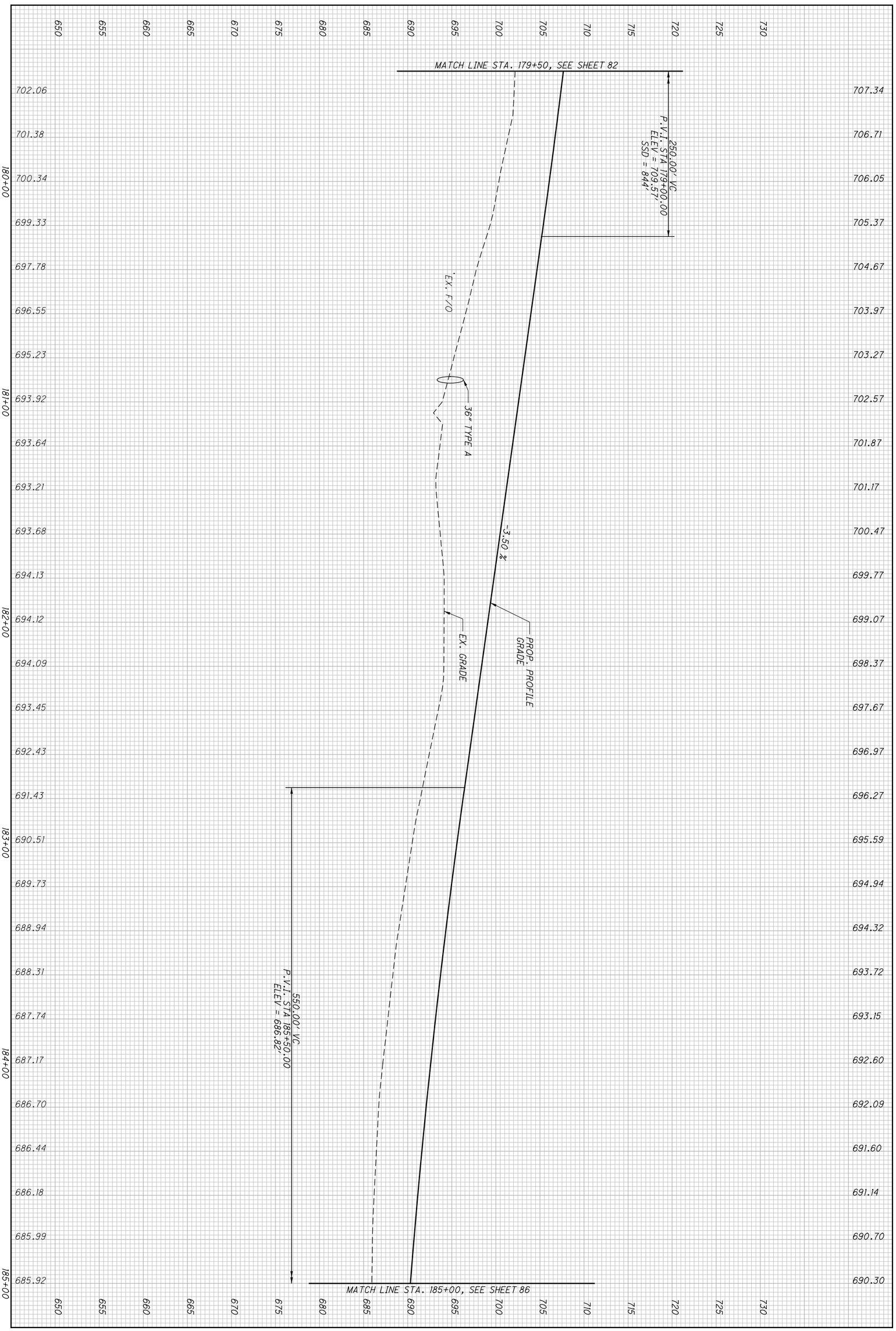
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 179+50 TO STA. 185+00

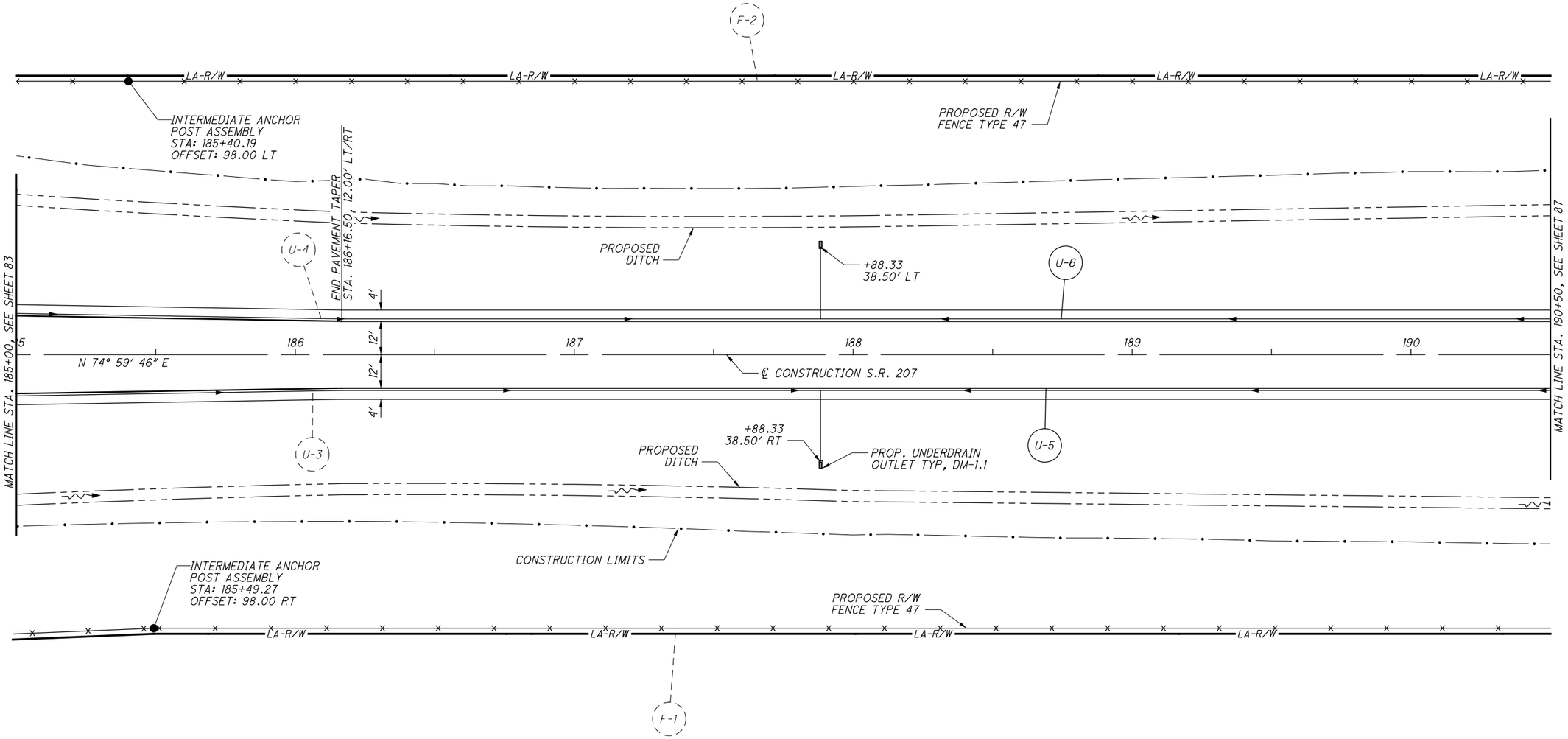
ROS-207-0.00

83
332

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84 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 179+50 TO STA. 185+00	CALCULATED CLW CHECKED DMV



HORIZONTAL SCALE IN FEET
0 10 20 40

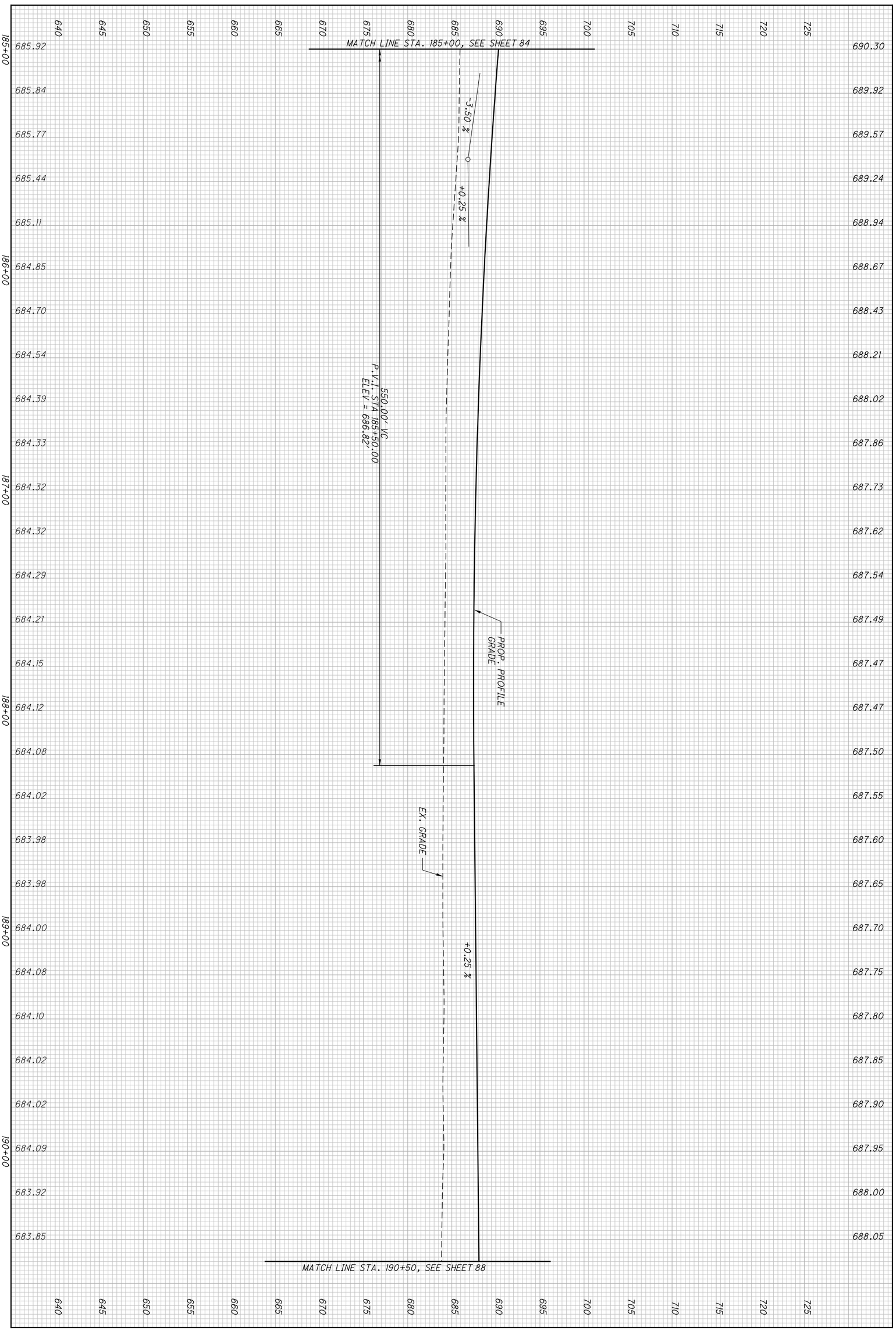
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 185+00 TO STA. 190+50

ROS-207-0.00

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86 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 185+00 TO STA. 190+50	CALCULATED CLW CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
241	CULVERT DETAIL SHEET

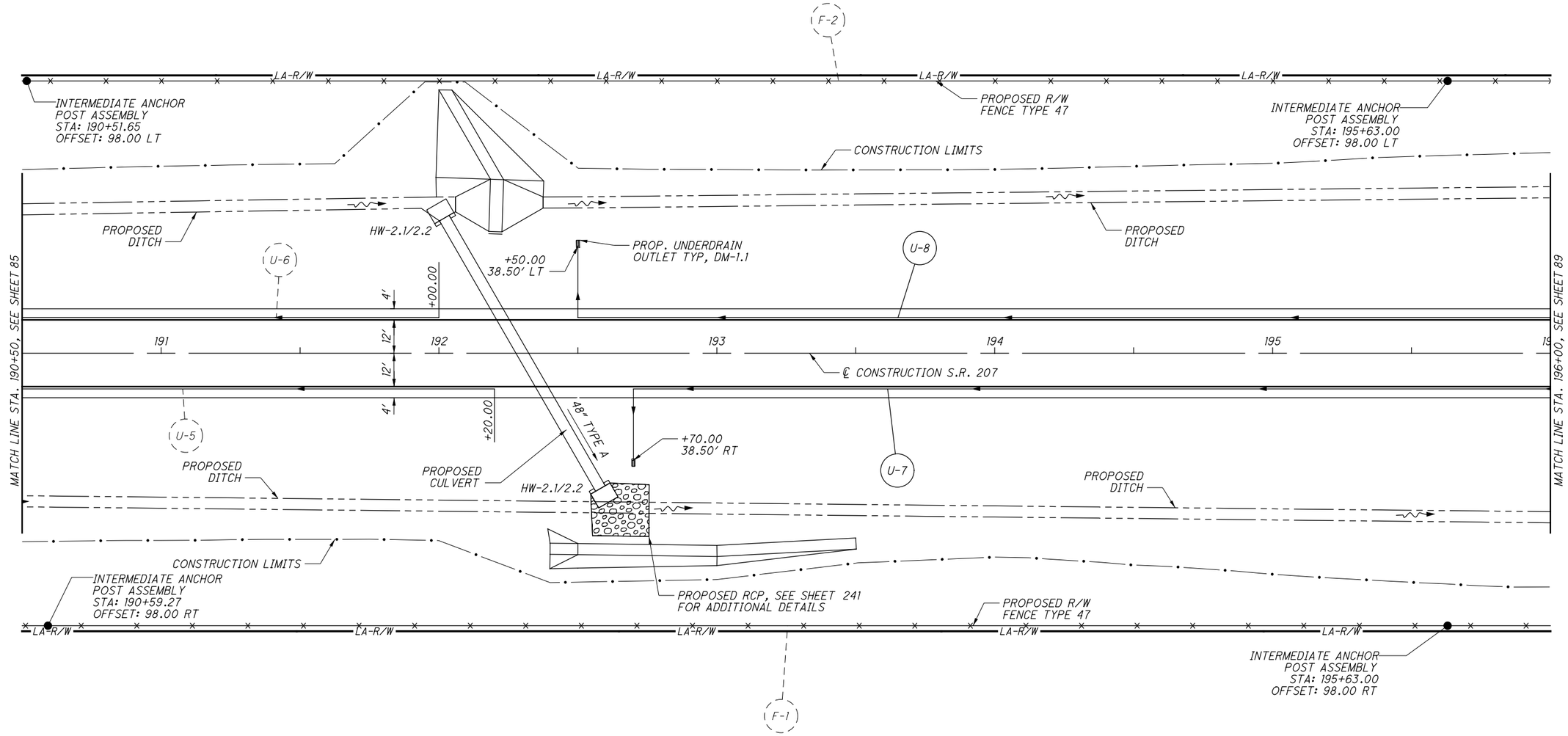
ITEM 836 - TURF REINFORCING MAT, TYPE 1

ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A

ITEM 671 - EROSION CONTROL MAT, TYPE A

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

ITEM 601 - ROCK CHANNEL PROTECTION



HORIZONTAL SCALE IN FEET
0 10 20 40

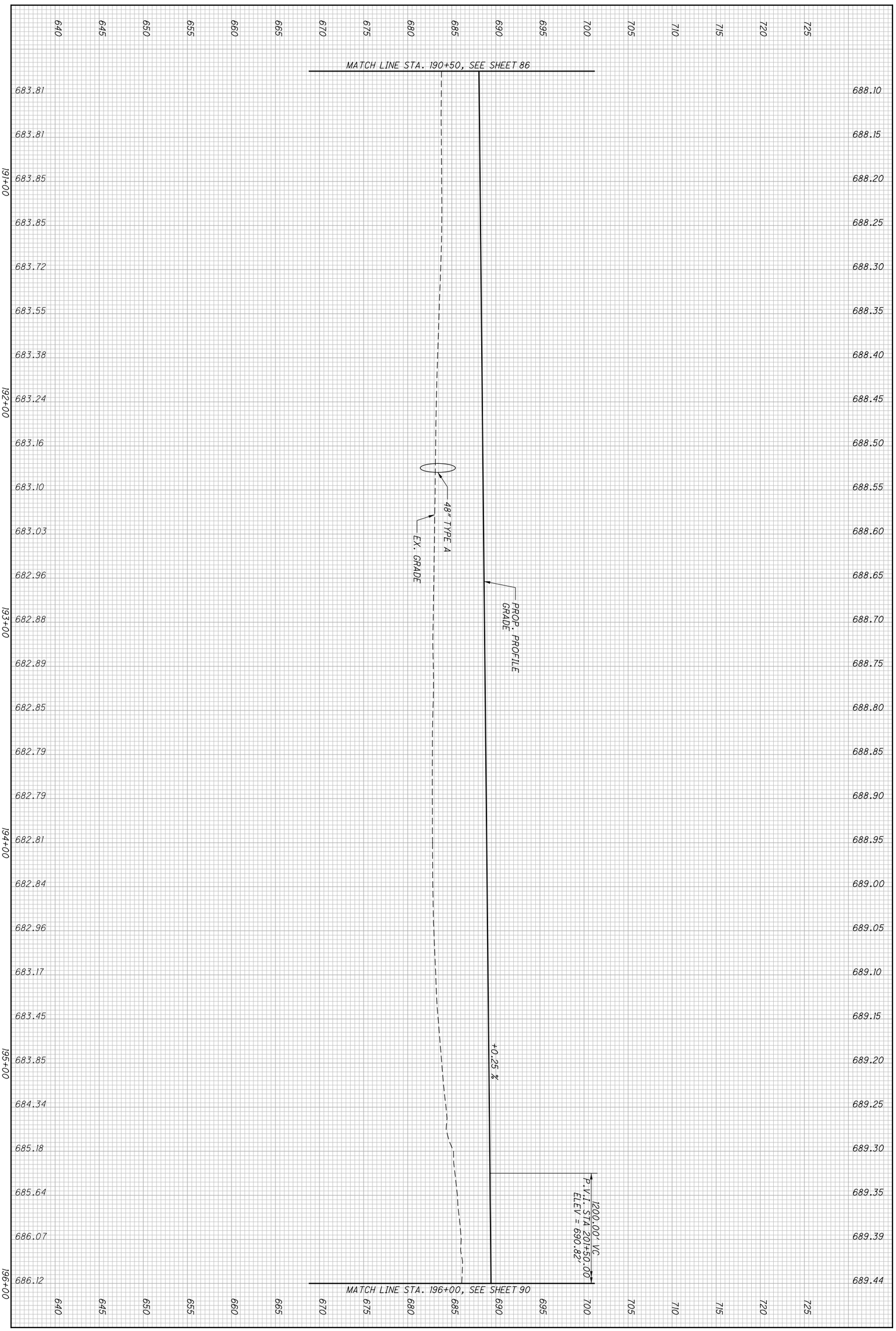
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 190+50 TO STA. 196+00

ROS-207-0.00

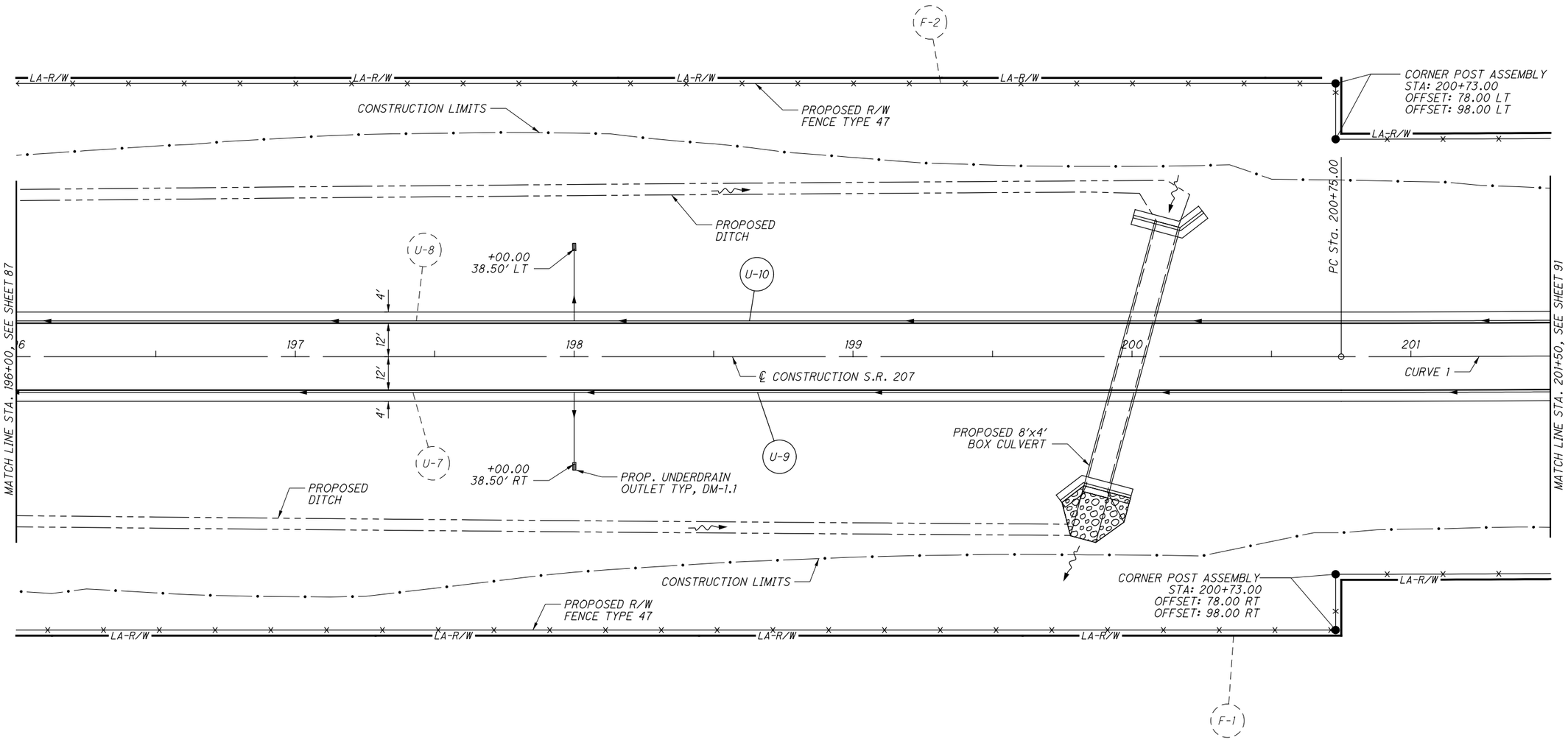
87
332

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88 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 190+50 TO STA. 196+00	CALCULATED CLW CHECKED DMV

CURVE 1
P.I. Sta. 204+82.05
Δ = 4° 04′ 08″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 407.05′
L = 813.75′
E = 7.23′
C = 813.58′
C.B. = N 72° 57′ 43″ E
e_{max} = NC/DS=60 MPH



ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

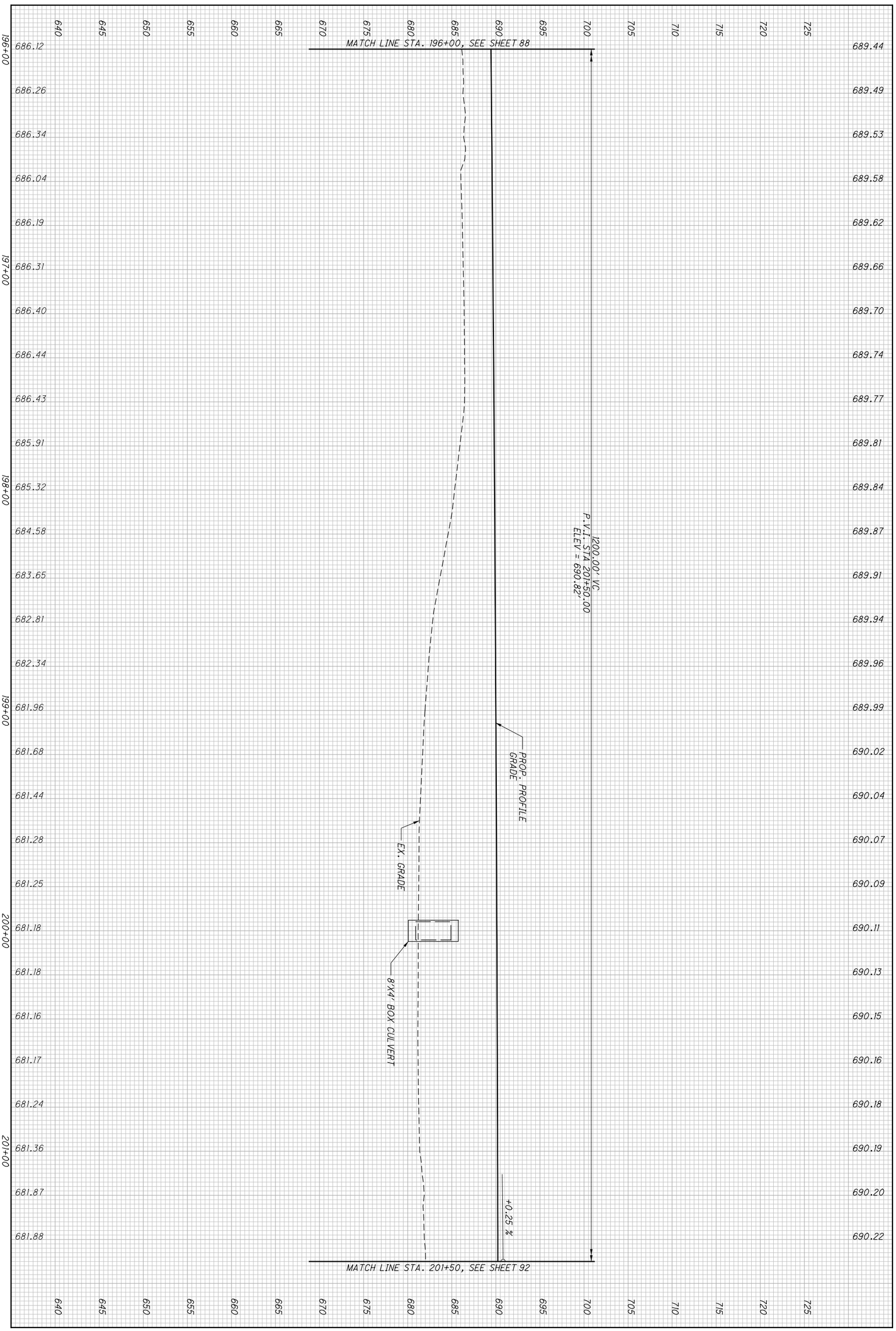
CROSS REFERENCES	
SHEET	DESCRIPTION
242 - 246	CULVERT DETAIL SHEET

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 196+00 TO STA. 201+50

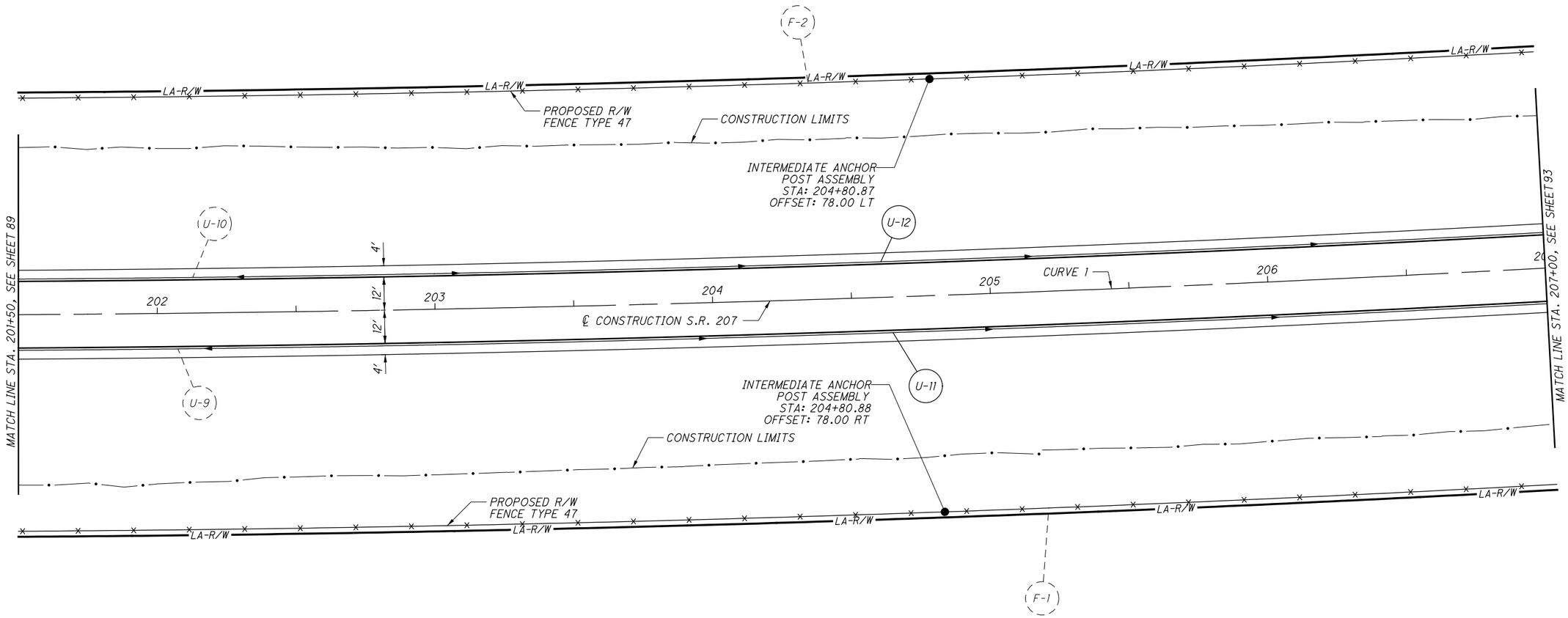
ROS-207-0.00

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90 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 196+00 TO STA. 201+50	CALCULATED CLW CHECKED DMV

CURVE 1
P.I. Sta. 204+82.05
Δ = 4° 04′ 08″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 407.05′
L = 813.75′
E = 7.23′
C = 813.58′
C.B. = N 72° 57′ 43″ E
e_{max}= NC/DS=60 MPH



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

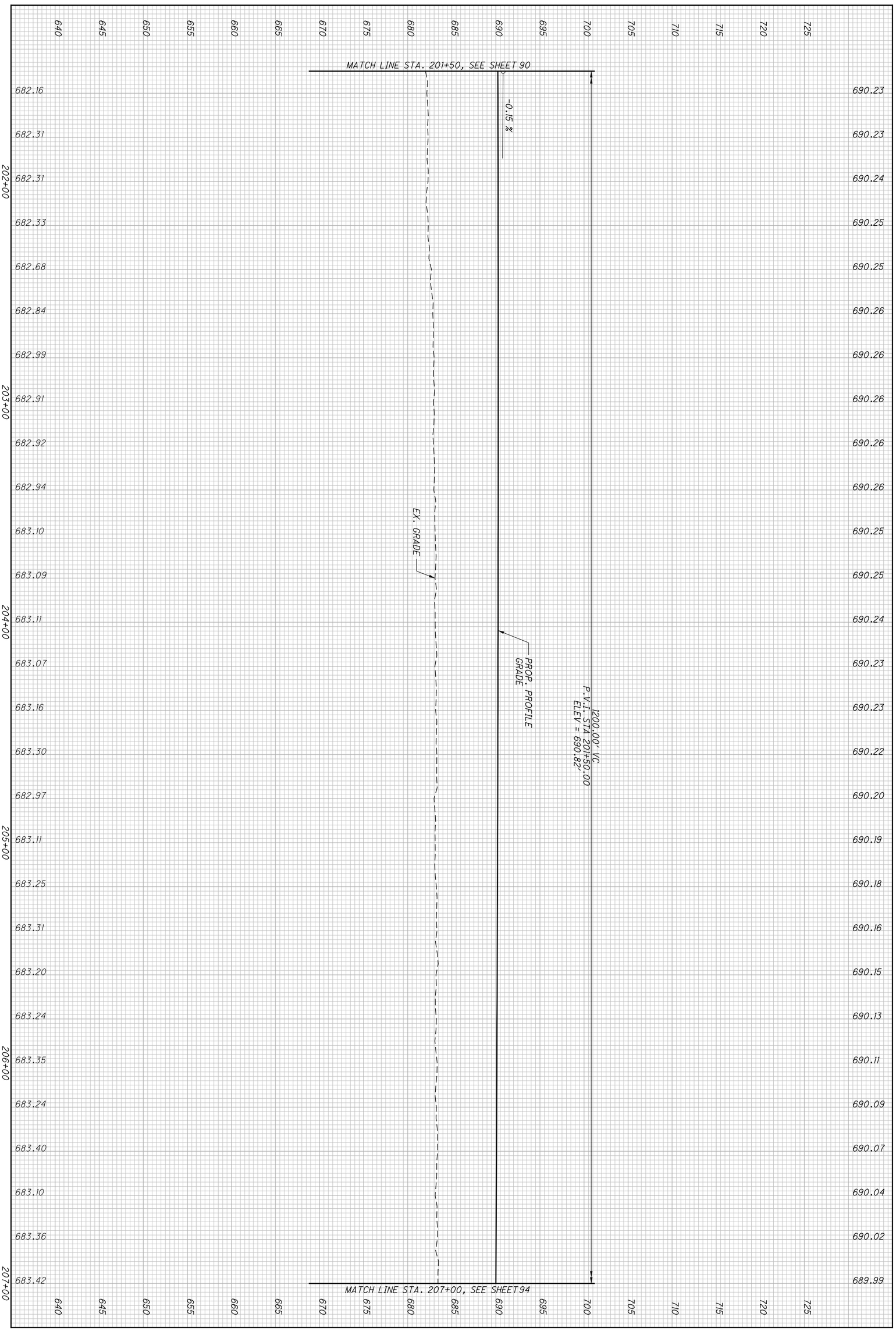
PLAN SHEET - S.R. 207
STA. 201+50 TO STA. 207+00

ROS-207-0.00

91
332

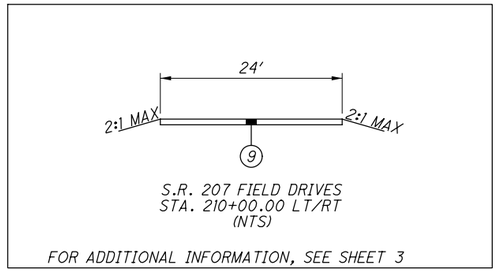
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92 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 201+50 TO STA. 207+00	CALCULATED CLW CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
232	FIELD DRIVE PROFILES



S.R. 207 FIELD DRIVES
STA. 210+00.00 LT/RT
(NTS)

FOR ADDITIONAL INFORMATION, SEE SHEET 3

STA. 10+95.65, 40.00' RT
= 90° 00' 00"
L=43.98'

STA. 11+75.65, 40.00' RT
= 90° 00' 00"
L=43.98'

END POST
TERMINAL ASSEMBLY
STA: 210+20.25
OFFSET: 197.64 LT

PROPOSED R/W
FENCE TYPE 47

INTERMEDIATE ANCHOR
POST ASSEMBLY
STA: 208+88.75
OFFSET: 78.00 LT

END POST
TERMINAL ASSEMBLY
STA: 209+63.25
OFFSET: 78.00 LT

STA. 209+39.65
63.00' LT
= 88° 29' 29"
L=77.22'

STA. 210+60.35
63.00' LT
= 88° 29' 29"
L=77.22'

CONSTRUCTION LIMITS

STA. 209+36.24
63.00' RT
= 91° 35' 38"
L=79.93'

STA. 210+63.76
63.00' RT
= 91° 35' 38"
L=79.93'

PROP. UNDERDRAIN
OUTLET TYP, DM-1.1

PROPOSED R/W
FENCE TYPE 47

INTERMEDIATE ANCHOR
POST ASSEMBLY
STA: 208+88.75
OFFSET: 78.00 RT

END POST
TERMINAL ASSEMBLY
STA: 209+77.22
OFFSET: 78.00 RT

END POST
TERMINAL ASSEMBLY
STA: 210+22.78
OFFSET: 78.00 RT

MATCH LINE STA. 207+00, SEE SHEET 91

MATCH LINE STA. 212+50, SEE SHEET 95

℄ 24' FIELD DRIVE 1

℄ 24' FIELD DRIVE

℄ CONSTRUCTION S.R. 207

CURVE 1

CURVE 2

CURVE 1	CURVE 2
P.I. Sta. 204+82.05	P.I. Sta. 216+01.77
Δ = 4° 04' 08" (LT)	Δ = 34° 33' 47" (RT)
Dc = 0° 30' 00"	Dc = 2° 30' 00"
R = 11,459.16'	R = 2,291.83'
T = 407.05'	T = 713.02'
L = 813.75'	L = 1,382.52'
E = 7.23'	E = 108.35'
C = 813.58'	C = 1,361.66'
C.B. = N 72° 57' 43" E	C.B. = N 88° 12' 32" E
e_{max}= NC/DS=60 MPH	e_{max}= 0.039/DS=45 MPH (NDC=0.061)

HORIZONTAL SCALE IN FEET
0 10 20 40

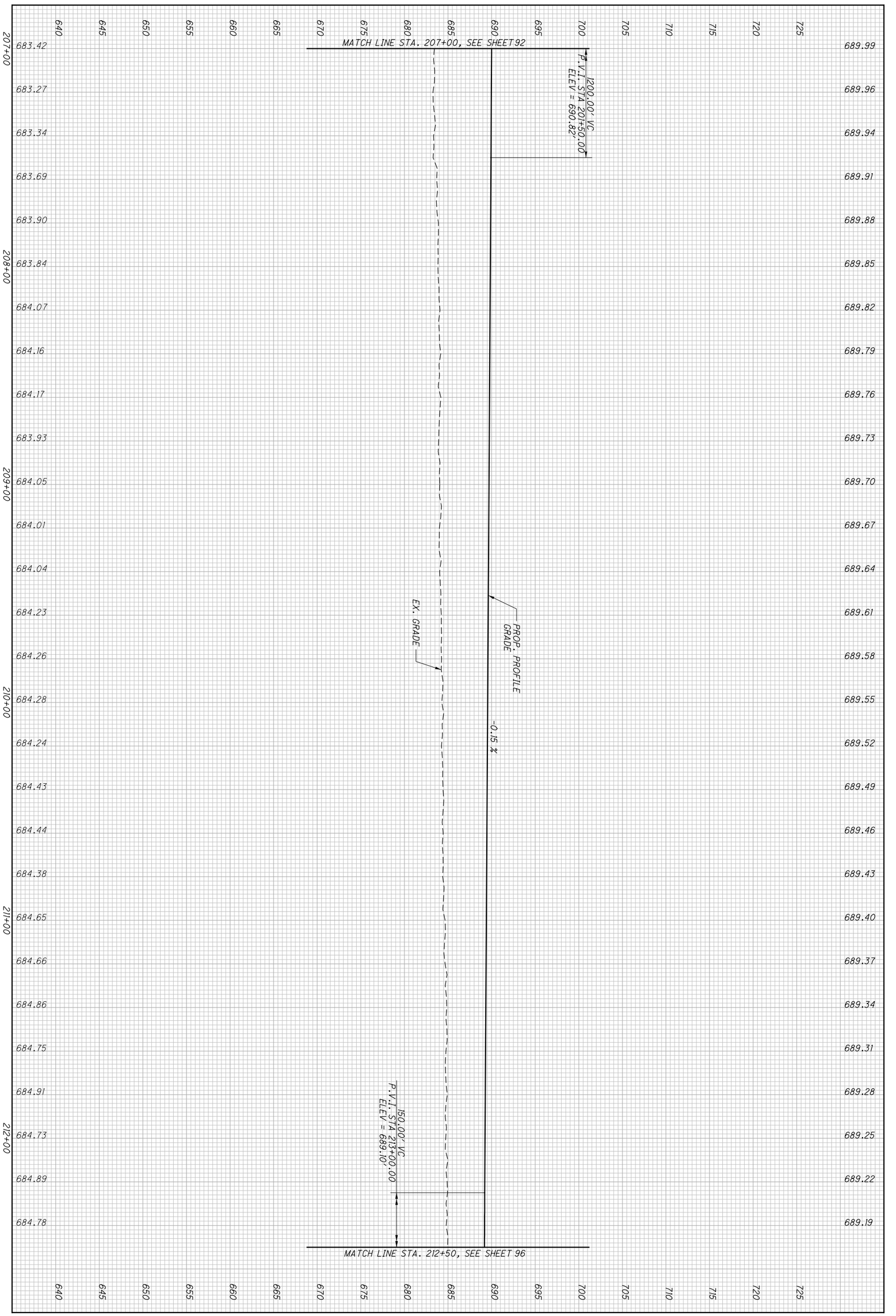
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 207+00 TO STA. 212+50

ROS-207-0.00

93
332

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94 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 207+00 TO STA. 212+50	CALCULATED CLW CHECKED DMV

NOTE:

1. CONTRACTOR TO GROUND FENCE PER HL-50.11.

CURVE 2
P.I. Sta. 216+01.77
Δ = 34° 33′ 47″ (RT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 713.02′
L = 1,382.52′
E = 108.35′
C = 1,361.66′
C.B. = N 88° 12′ 32″ E
e_{max}= 0.039/DS=45 MPH
(NDC=0.061)

FENCE GROUND PER HL-50.11

INTERMEDIATE ANCHOR POST ASSEMBLY STA: 213+50.47 OFFSET: 101.22 LT

LA-R/W

Ex U

OH-E

PROPOSED R/W FENCE TYPE 47

INTERMEDIATE ANCHOR POST ASSEMBLY STA: 217+36.25 OFFSET: 56.67 LT

BEGIN PAVEMENT TAPER STA. 216+60.00, 12.00′ LT/RT

F-3

CONSTRUCTION LIMITS

4′ 12′ 12′ 4′

213 214 215 216 217

℄ CONSTRUCTION S.R. 207

CURVE 2

MATCH LINE STA. 212+50, SEE SHEET 93

MATCH LINE STA. 218+00, SEE SHEET 97

U-13

U-14

+97.21 38.50′ RT

PROP. UNDERDRAIN OUTLET TYP, DM-1.1

F-4

INTERMEDIATE ANCHOR POST ASSEMBLY STA: 215+56.58 OFFSET: 78.00 RT

FENCE GROUND PER HL-50.11

EX. AEP 138KV OVERHEAD ELECTRIC TRANSMISSION LINE

HORIZONTAL SCALE IN FEET
0 10 20 40

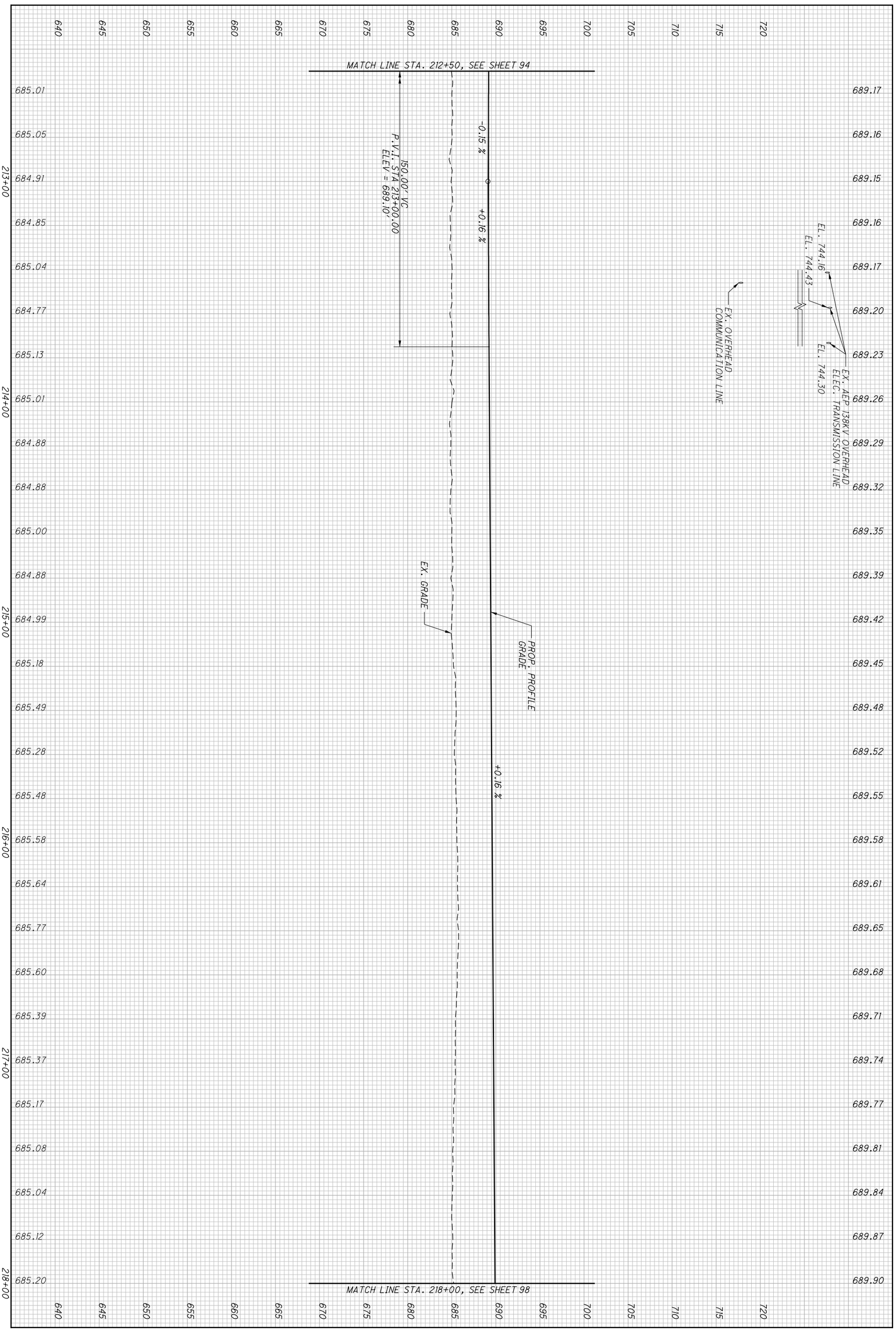
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 207
STA. 212+50 TO STA. 218+00

ROS-207-0.00

95
332

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96 / 332	ROS-207-0.00	**PROFILE - S.R. 207** **STA. 212+50 TO STA. 218+00**

CALCULATED CLW
CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
221 - 224	INTERSECTION DETAIL SHEET
230	INTERSECTION GRADING SHEET

MATCH LINE STA. 120+50, SEE SHEET 103

PROP. 6" CONC. SPLITTER ISLAND

BEGIN CURB STA. 120+12.38 18.00' LT

END CURB STA. 120+16.09 18.00' RT

℄ CONSTRUCTION S.R. 159

N 22° 36' 00" E 120

END PROJECT STA. 222+71.28 S.L.M. = 0.89

E170 (943)

CORNER POST ASSEMBLY STA: 221+88.80 OFFSET: 120.04 LT

CORNER POST ASSEMBLY STA: 221+00.53 OFFSET: 76.50 LT

CONSTRUCTION LIMITS

END PAVEMENT TAPER STA. 219+00.00, 16.00' LT/RT

PROPOSED R/W FENCE TYPE 47

END CURB STA. 221+04.95 20.00' LT

PROP. 6" CONC. SPLITTER ISLAND

PROP. GRASS ISLAND

PROP. CURB, TYPE 3, AS PER PLAN

PROP. TRUCK APRON

PROP. CURB, TYPE 3, AS PER PLAN

PT Sta. 222+71.28

POT Sta. 118+74.05

PROP CURB, TYPE 6

CURVE 2

℄ CONSTRUCTION S.R. 207

R/W MONUMENT BOX

MATCH LINE STA. 218+00, SEE SHEET 95

+40.80 41.53' RT

PROP. UNDERDRAIN OUTLET TYP, DM-1.1

BEGIN CURB STA. 219+14.00 20.00' RT

CONSTRUCTION LIMITS

PROPOSED R/W FENCE TYPE 47

CORNER POST ASSEMBLY STA: 221+00.73 OFFSET: 78.00 RT

CORNER POST ASSEMBLY STA: 117+53.59 OFFSET: 92.52 LT

PROP. 6" CONC. SPLITTER ISLAND

+62.99 46.76' LT

N 1° 28' 24" E 118

BEGIN CURB STA. 117+29.52 18.00' RT

END CURB STA. 117+27.05 18.00' LT

MATCH LINE STA. 117+00, SEE SHEET 101

6" WATER (DND)

EX. UTILITY POLE (DND)

TELEPHONE (RBO)

4" GAS (RBO)

TELEPHONE (DND)

EX. UTILITY POLE (DND)

CONSTRUCTION LIMITS

U-14 U-15 U-16 U-17 U-18 U-19 U-20 U-21 U-22

P-1 P-2 P-3 P-7 P-8 P-9 P-31 P-32 P-33

F-3 F-4

Ex U Ex SH Ex 6H Ex 8" W LA-R/W LA BX/SH TMP

CURVE 2
P.I. Sta. 216+01.77
Δ = 34° 33' 47" (RT)
Dc = 2° 30' 00"
R = 2,291.83'
T = 713.02'
L = 1,382.52'
E = 108.35'
C = 1,361.66'
C.B. = N 88° 12' 32" E
e_{max}= 0.039/DS=45 MPH
(NDC=0.061)

HORIZONTAL SCALE IN FEET
0 10 20 40

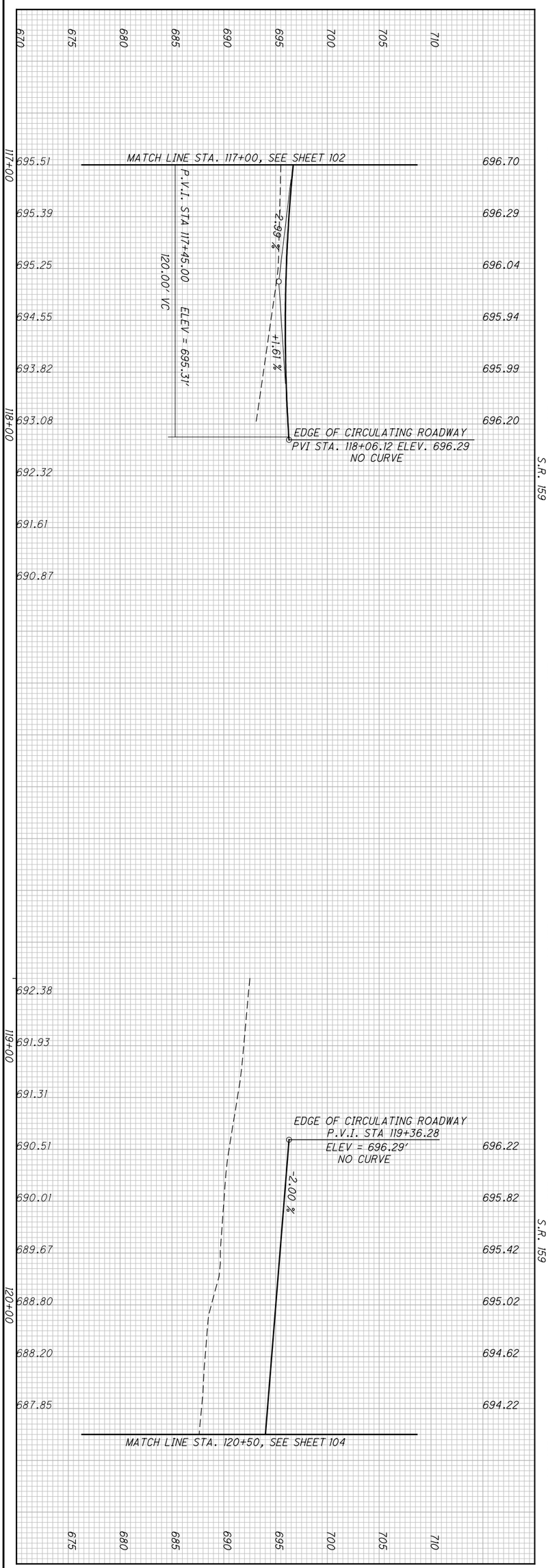
CALCULATED CLW
CHECKED DMV

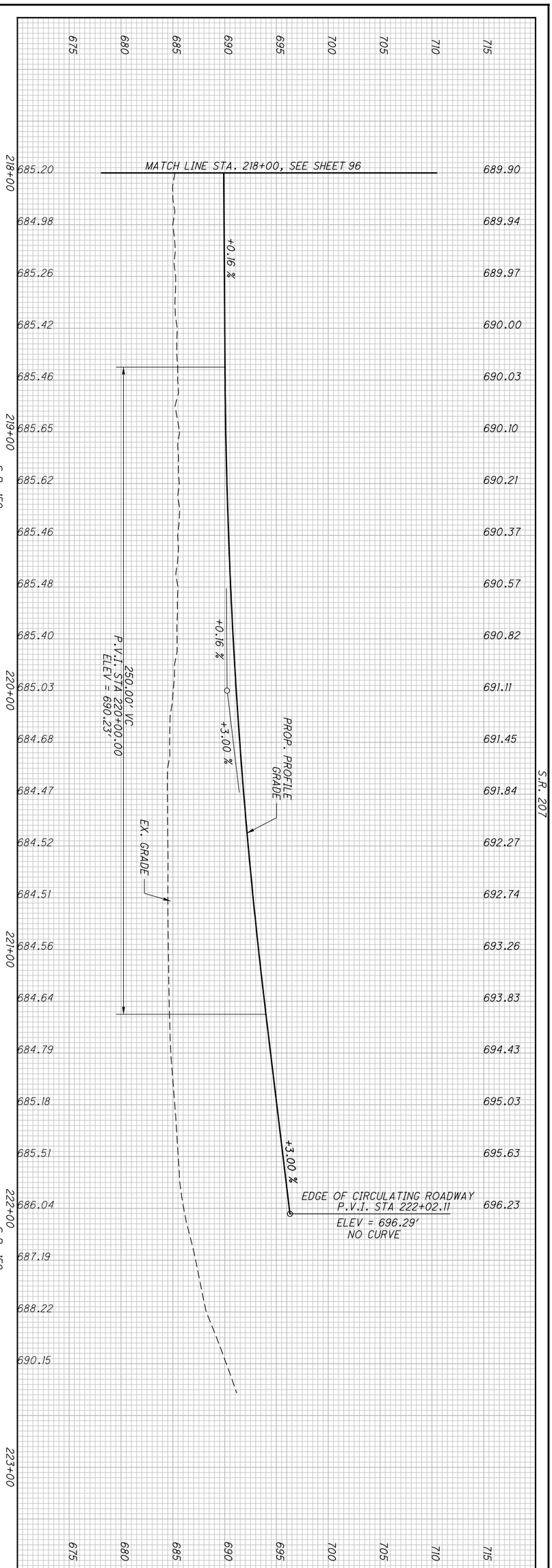
PLAN SHEET - S.R. 207
STA. 218+00 TO STA. 222+71.28

ROS-207-0.00

97
332

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98 / 332	ROS-207-0.00	PROFILE - S.R. 207 STA. 218+00 TO STA. 222+71.28	CALCULATED CLW CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
233 - 235	DRIVEWAY PROFILES

EX. OVERHEAD ELECTRIC LINE (DND)

POT Sta. 108+00.00

1 STORY FRAME RESIDENTIAL

BEGIN WORK STA. 110+35.00

R-4

EX. UTILITY POLE (RBO)

TELEPHONE (DND)

4" GAS (DND)

U-17

℄ CONSTRUCTION S.R. 159

P-5

P-4

N 13° 40' 06" E

R-2

R-3

R-1

R-5

P-6

EX. FENCE (TBR)

1 STORY FRAME RESIDENTIAL

EX. FENCE (TBR)

℄ 30' ASPHALT-R COMMERCIAL DRIVE

6" WATER (DND)

EX. UTILITY POLE (DND)

MATCH LINE STA. 111+50, SEE SHEET 101

109

110

111

+67.95

96°

24"

1.7'

2'

12'

Ex U

Ex SH

TMP

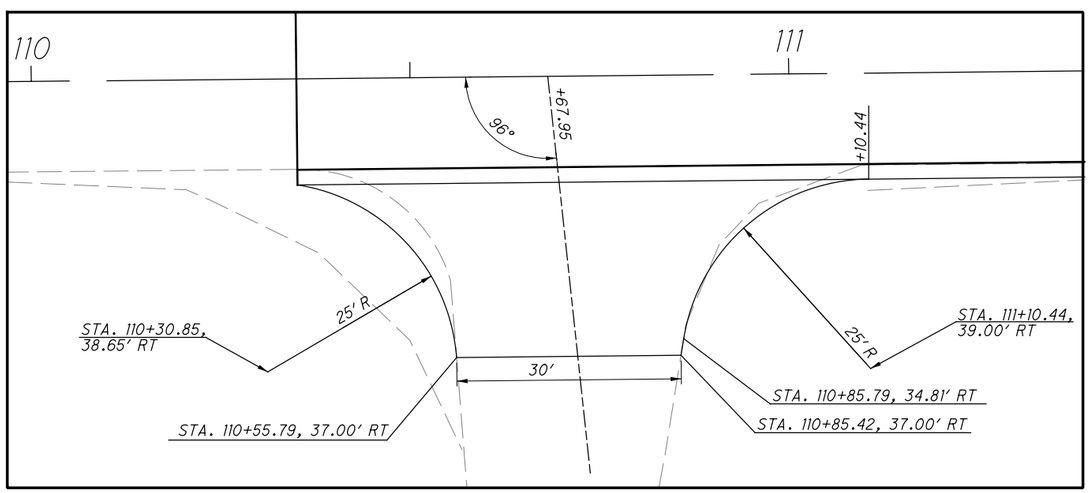
OH-E

FO

G

W

T



HORIZONTAL SCALE IN FEET
0 10 20 40

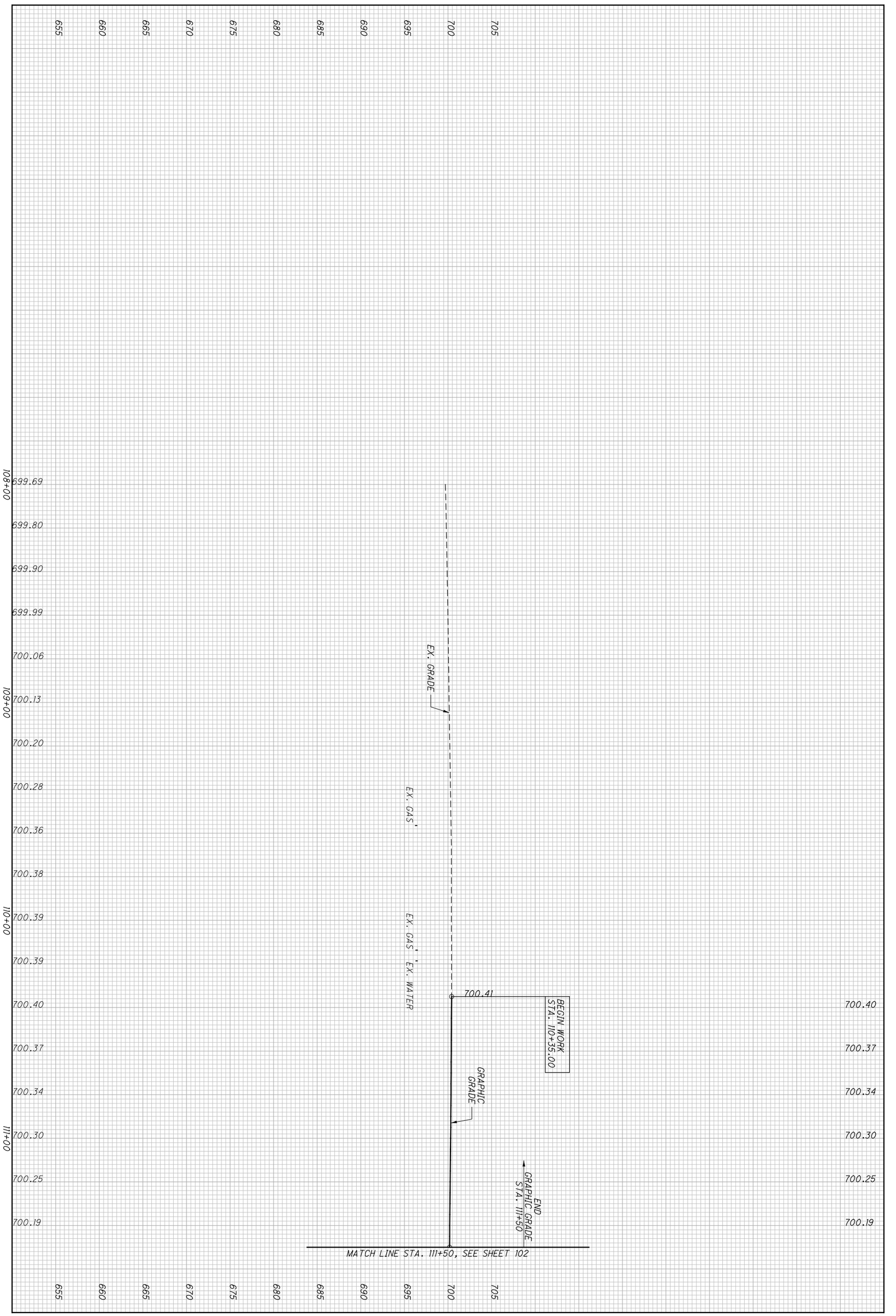
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
BEGIN WORK TO STA. 111+50

ROS-207-0.00

99
332

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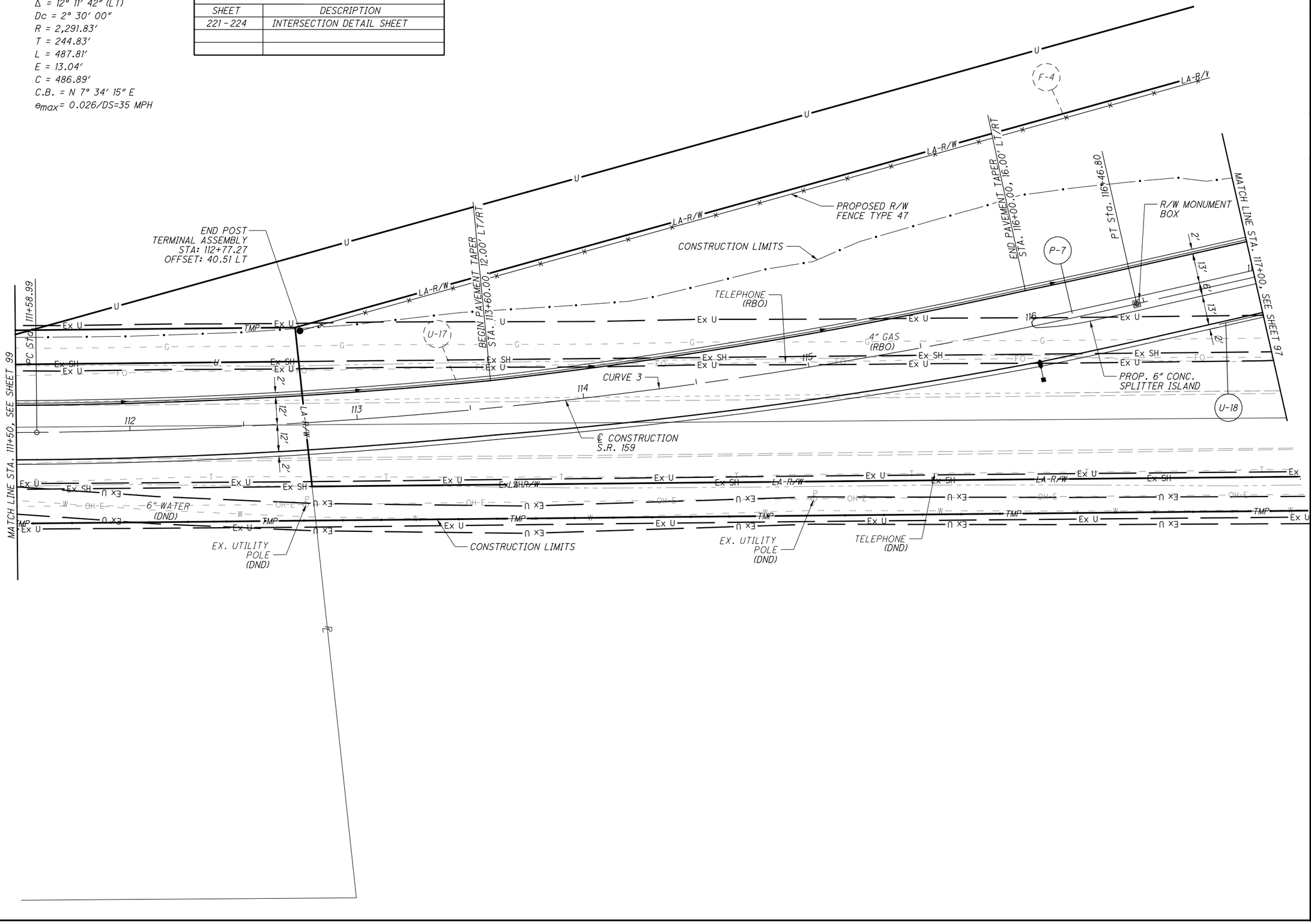


100 / 332	ROS-207-0.00	PROFILE - S.R. 159 STA. 108+00 TO STA. 111+50

CALCULATED CLW
CHECKED DMV

CURVE 3
P.I. Sta. 114+03.82
Δ = 12° 11′ 42″ (LT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 244.83′
L = 487.81′
E = 13.04′
C = 486.89′
C.B. = N 7° 34′ 15″ E
e_{max} = 0.026/DS=35 MPH

CROSS REFERENCES	
SHEET	DESCRIPTION
221-224	INTERSECTION DETAIL SHEET



HORIZONTAL SCALE IN FEET
0 10 20 40

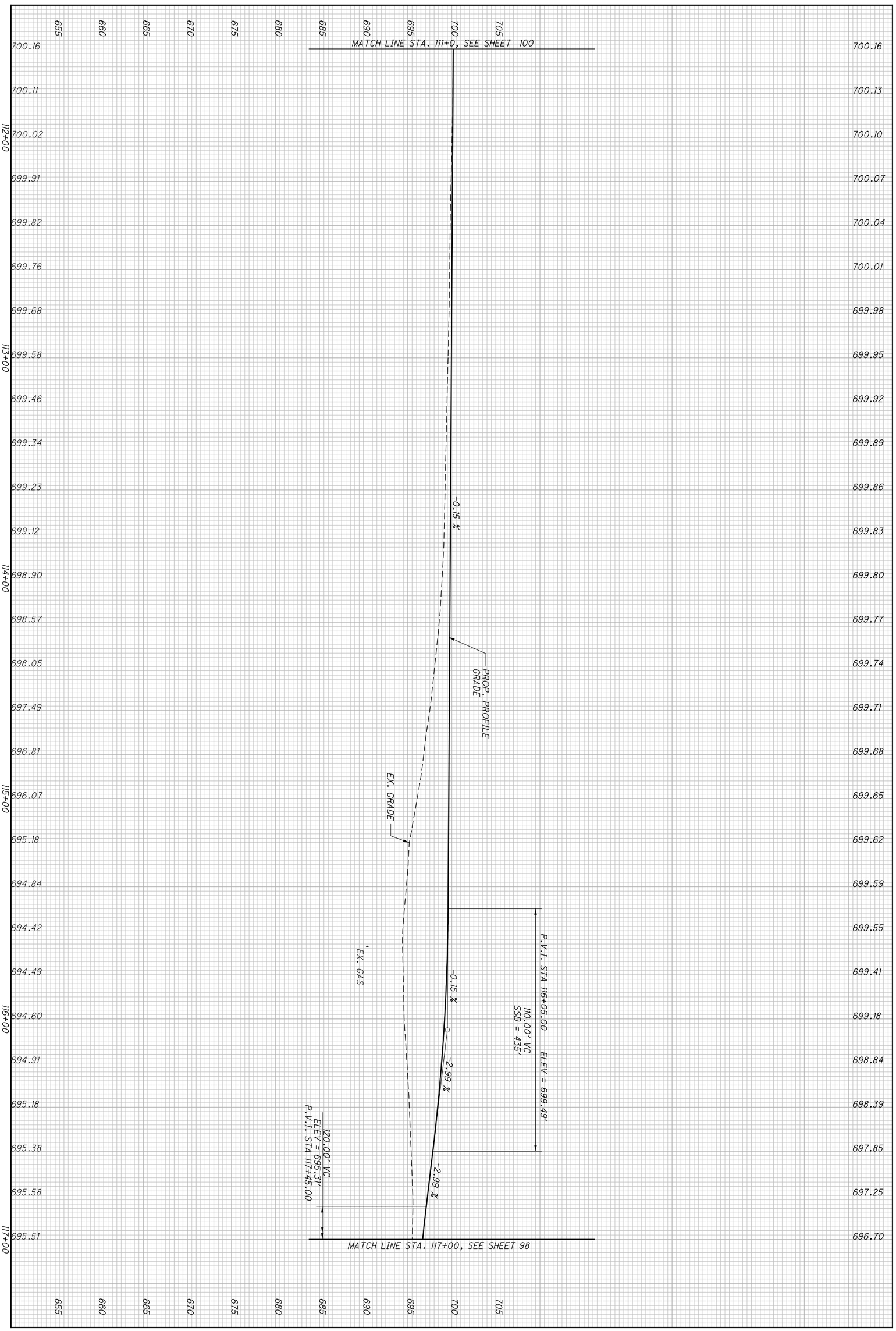
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
STA. 111+50 TO STA. 117+00

ROS-207-0.00

101
332

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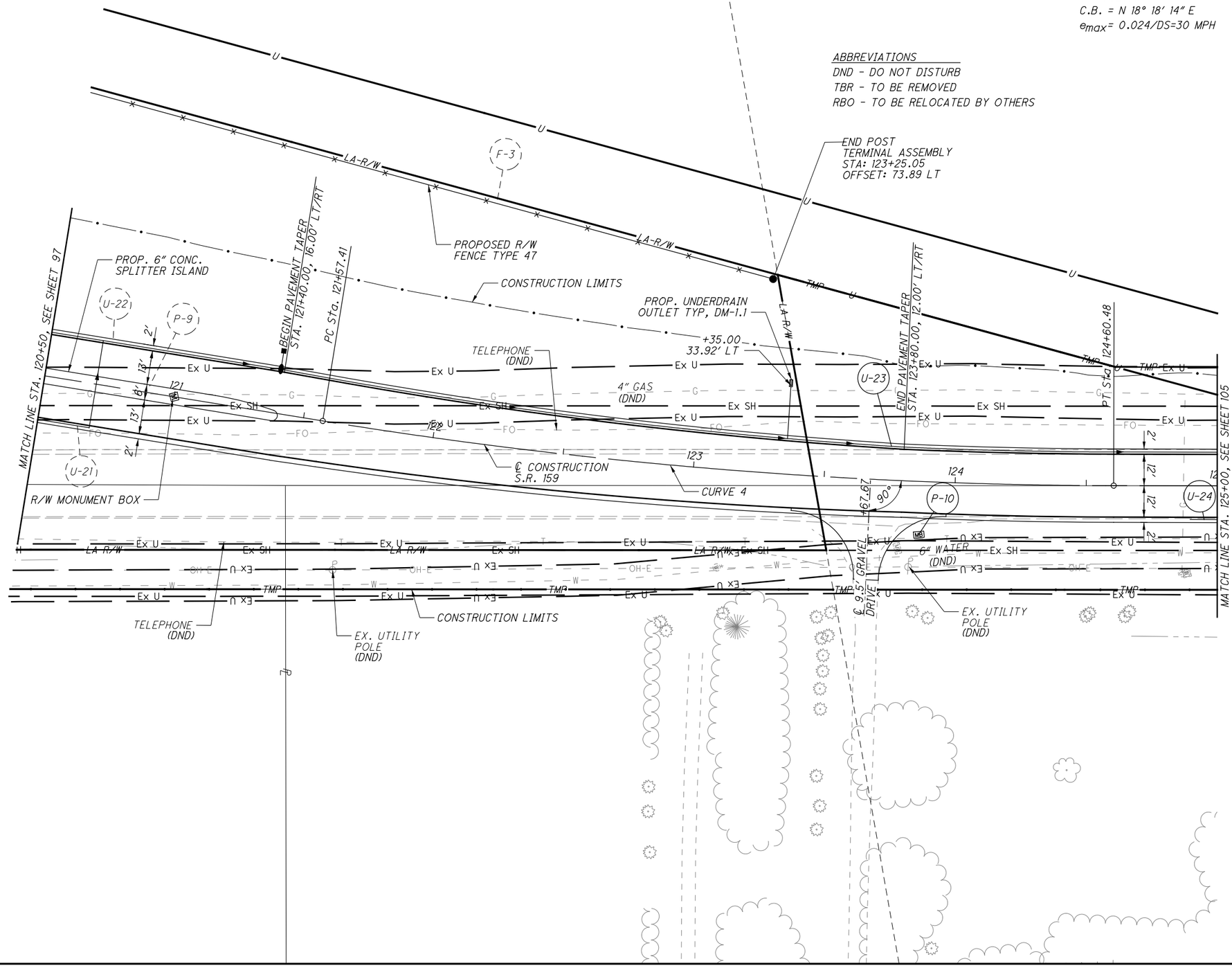


102 / 332	ROS-207-0.00	PROFILE - S.R. 159 STA. 111+50 TO STA. 117+00	CALCULATED CLW CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
221-224	INTERSECTION DETAIL SHEET
234	DRIVEWAY PROFILE SHEET

CURVE 4
P.I. Sta. 123+09.26
Δ = 9° 05′ 32″ (LT)
Dc = 3° 00′ 00″
R = 1,909.86′
T = 151.86′
L = 303.07′
E = 6.03′
C = 302.76′
C.B. = N 18° 18′ 14″ E
e_{max} = 0.024/DS=30 MPH

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS



HORIZONTAL SCALE IN FEET
0 10 20 40

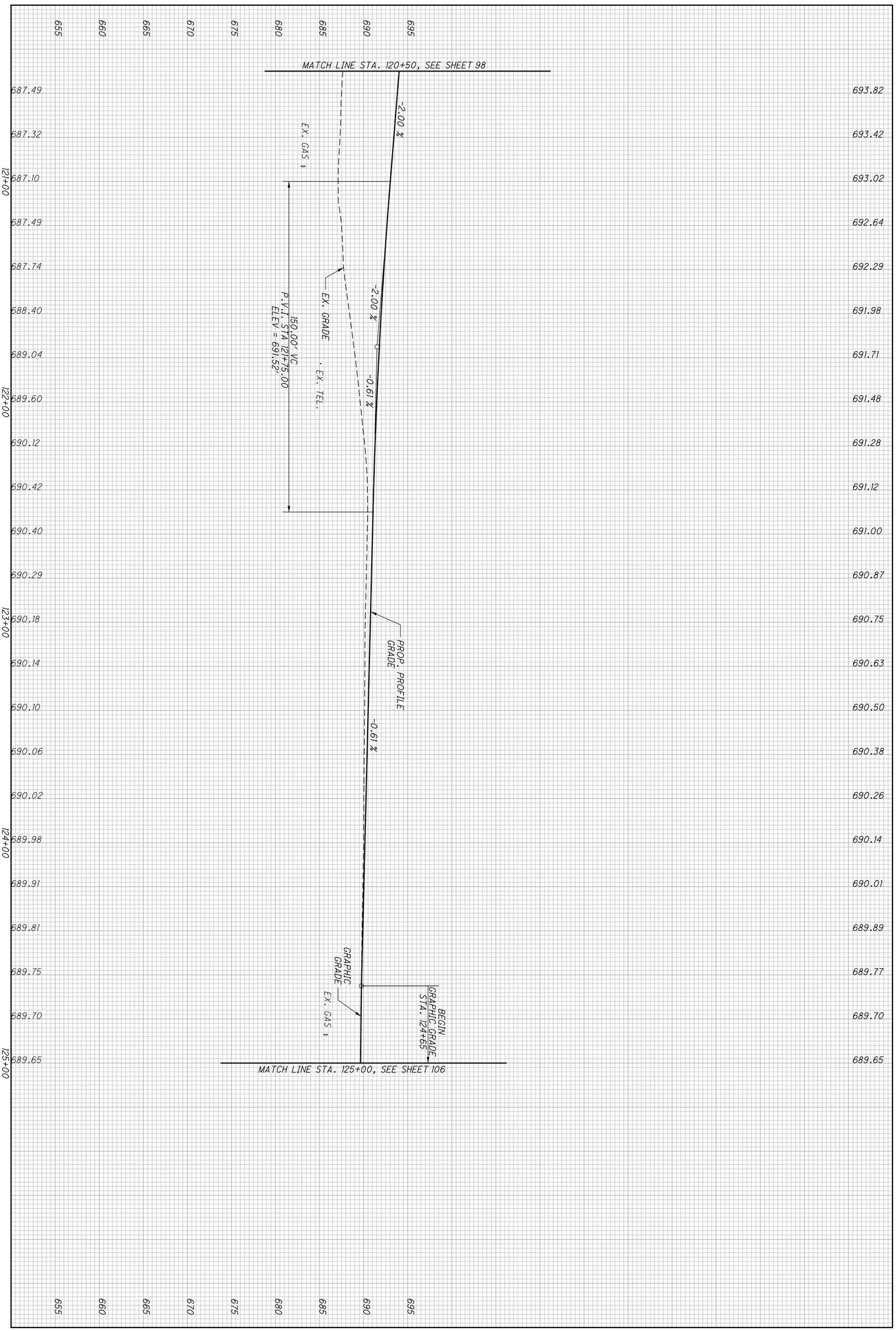
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
STA. 120+50 TO STA. 125+00

ROS-207-0.00

103
332

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104 / 332	ROS-207-0.00	PROFILE - S.R. 159 STA. 120+50 TO STA. 125+00	CALCULATED CLW CHECKED DMV

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

SUSPEND WORK
STA. 125+65.00

PROP. UNDERDRAIN
OUTLET TYP, DM-1.1

TELEPHONE
(DND)

+62.00
27.89' LT

4" GAS
(DND)

6" WATER
(DND)

TELEPHONE
(DND)

EX. UTILITY
POLE (DND)

CONSTRUCTION LIMITS

GRAVEL

ASPHALT

ASPHALT

Pt. Sta. 127+35.69

N 13° 45' 29" E

℄ CONSTRUCTION
S.R. 159

MATCH LINE STA. 125+00, SEE SHEET 103

MATCH LINE STA. 130+00, SEE SHEET 107

125 126 127 128 129 130

Ex U Ex SH TMP OH-E FO G W

2' 12' 12' 12' 2' 1.7' 0.6'

U-23 U-24

HORIZONTAL SCALE IN FEET
0 10 20 40

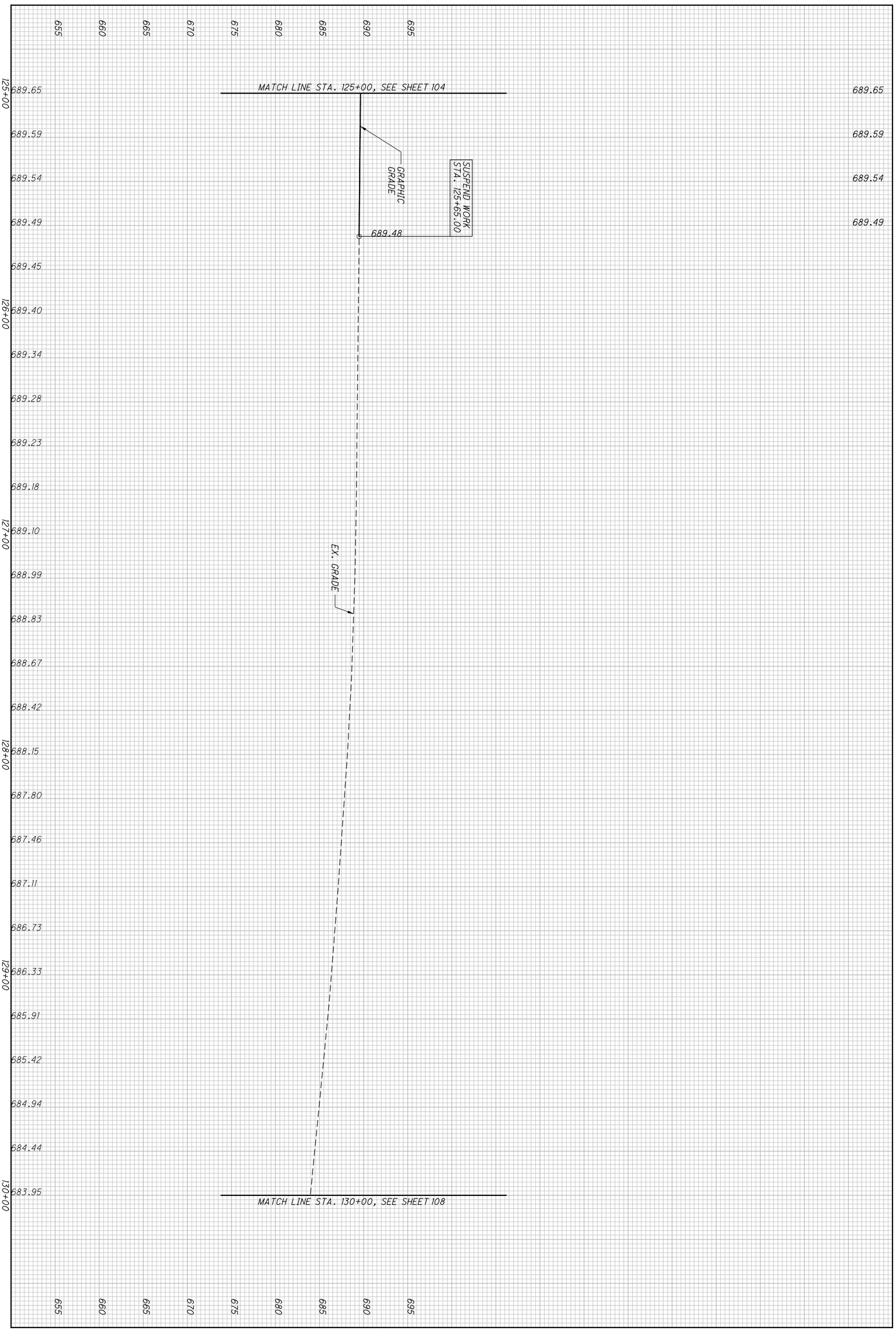
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
STA. 125+00 TO STA. 130+00

ROS-207-0.00

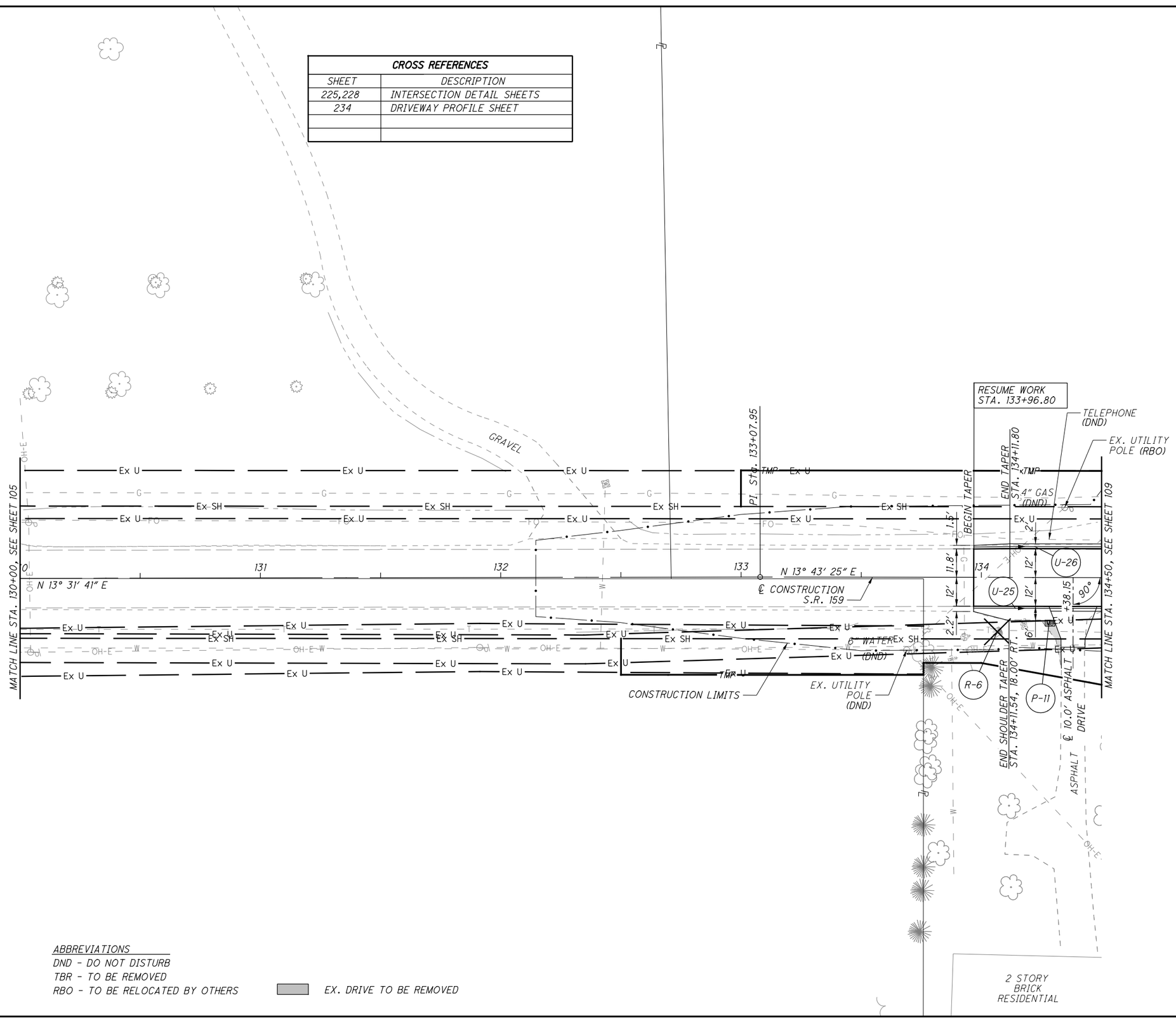
105
332

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106 / 332	ROS-207-0.00	PROFILE - S.R. 159 STA. 125+00 TO STA. 130+00	CALCULATED CLW CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
225,228	INTERSECTION DETAIL SHEETS
234	DRIVEWAY PROFILE SHEET



ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

EX. DRIVE TO BE REMOVED

HORIZONTAL SCALE IN FEET
0 10 20 40

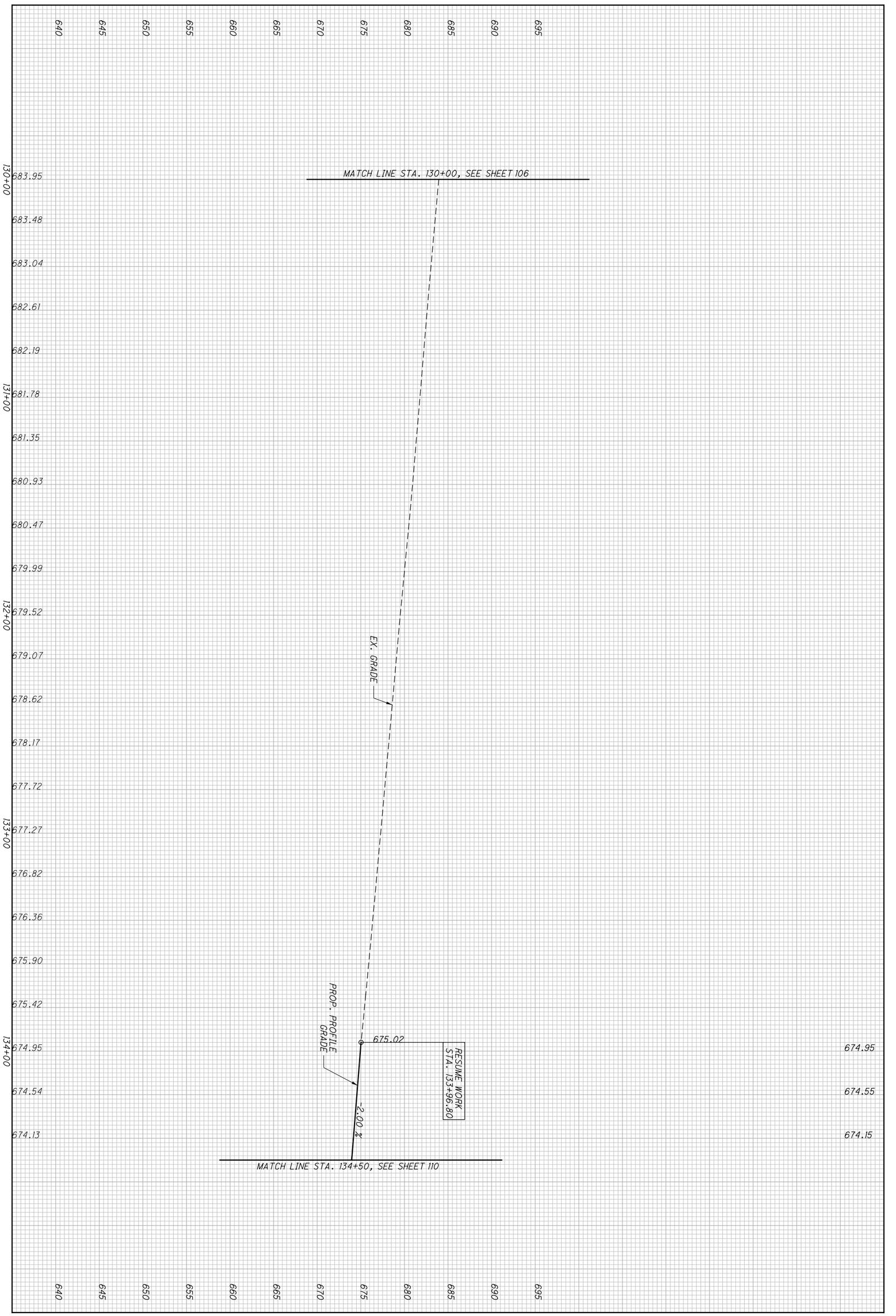
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
STA. 130+00 TO STA. 134+50.00

ROS-207-0.00

107
332

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108 / 332	ROS-207-0.00	PROFILE - S.R. 159 STA. 130+00 TO STA. 134+50	CALCULATED CLW CHECKED DMV

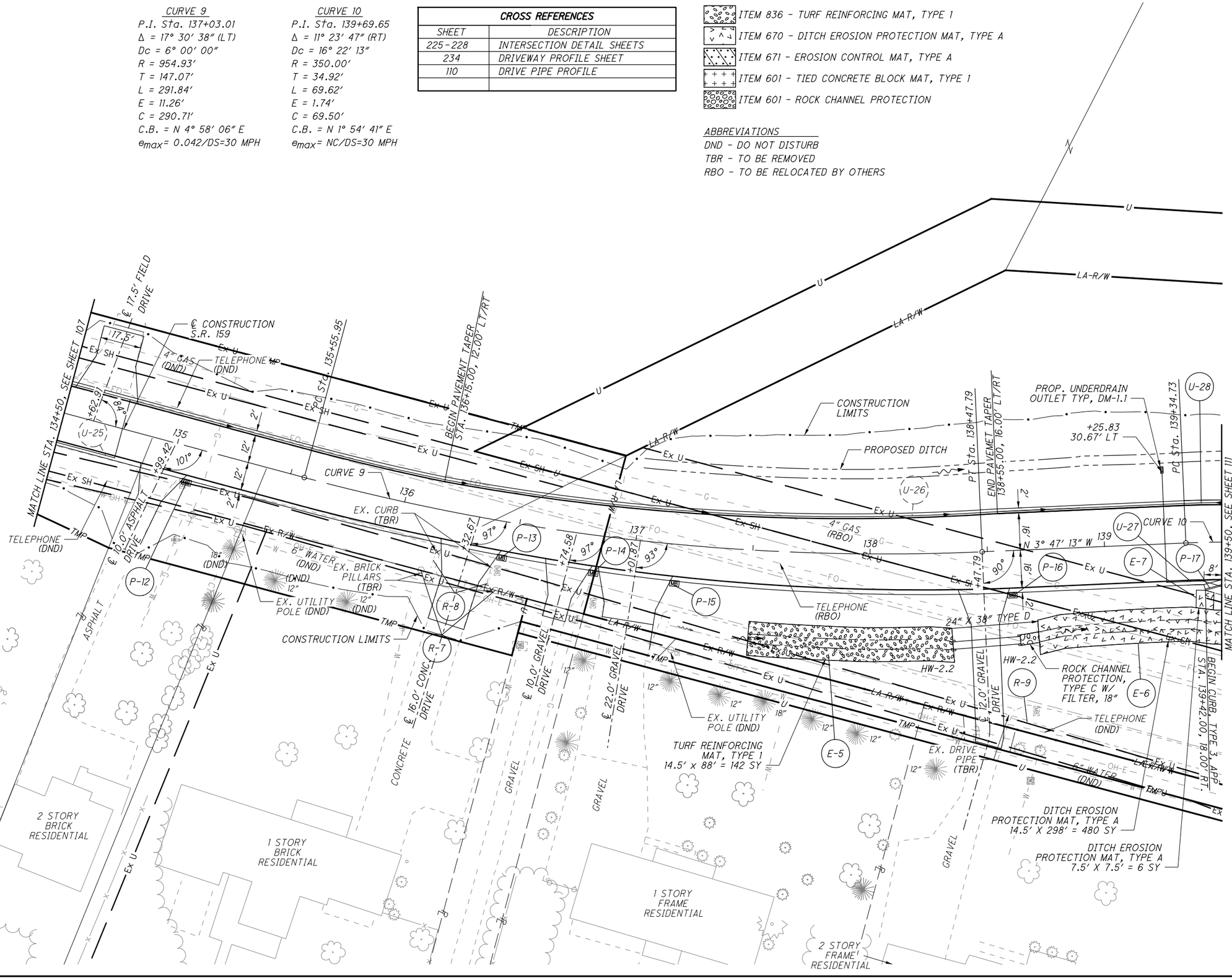
CURVE 9
P.I. Sta. 137+03.01
Δ = 17° 30′ 38″ (LT)
Dc = 6° 00′ 00″
R = 954.93′
T = 147.07′
L = 291.84′
E = 11.26′
C = 290.71′
C.B. = N 4° 58′ 06″ E
e_{max} = 0.042/DS=30 MPH

CURVE 10
P.I. Sta. 139+69.65
Δ = 11° 23′ 47″ (RT)
Dc = 16° 22′ 13″
R = 350.00′
T = 34.92′
L = 69.62′
E = 1.74′
C = 69.50′
C.B. = N 1° 54′ 41″ E
e_{max} = NC/DS=30 MPH

CROSS REFERENCES	
SHEET	DESCRIPTION
225-228	INTERSECTION DETAIL SHEETS
234	DRIVEWAY PROFILE SHEET
110	DRIVE PIPE PROFILE

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

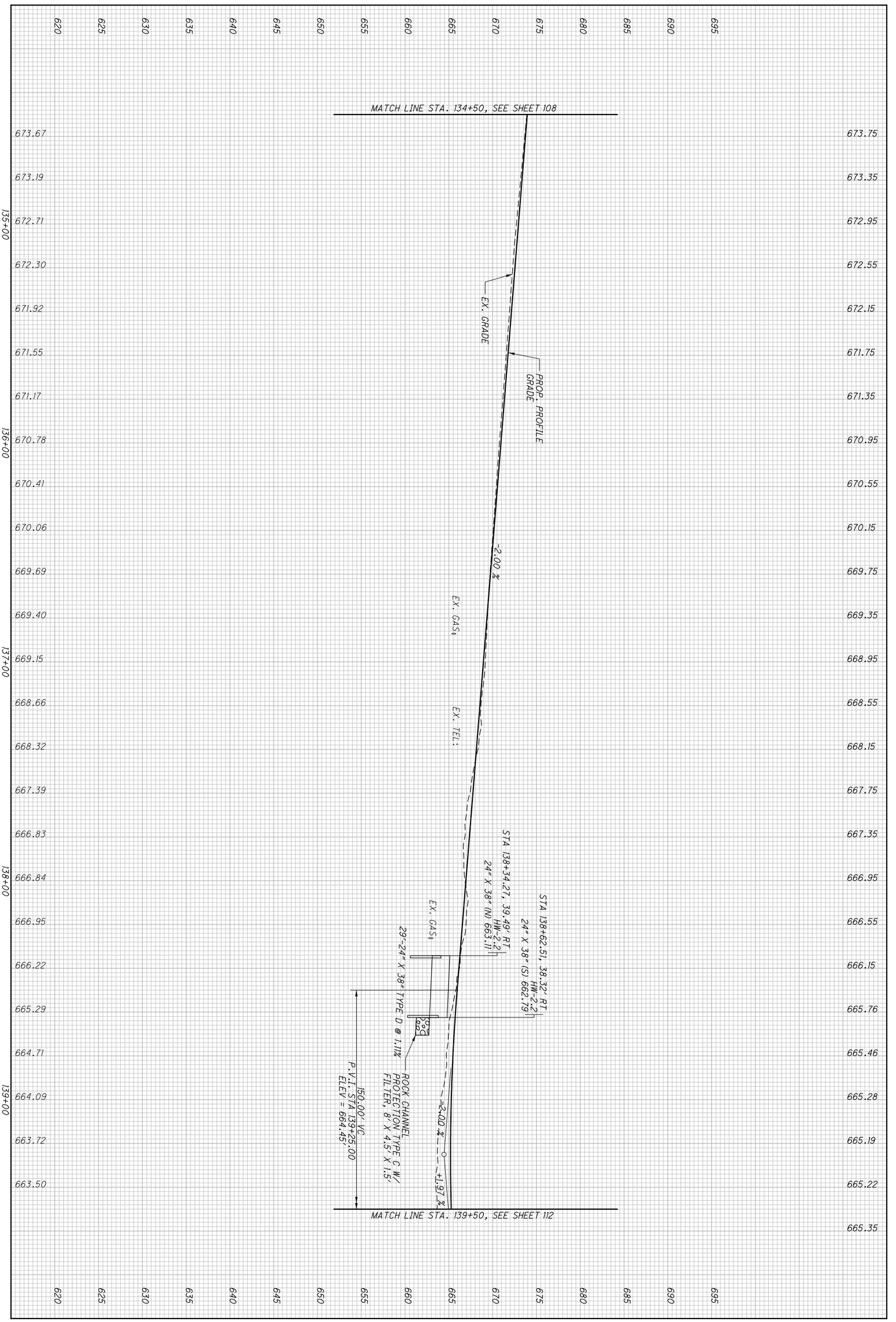
PLAN SHEET - S.R. 159
STA. 134+50 TO STA. 139+50

ROS-207-0.00

109
332

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110 / 332	ROS-207-0.00	**PROFILE - S.R. 159** **STA. 134+50 TO STA. 139+50**

CALCULATED CLW
CHECKED DMV

CURVE 10	CURVE 11	CURVE 12
P.I. Sta. 139+69.65	P.I. Sta. 143+51.62	P.I. Sta. 240+02.36
Δ = 11° 23′ 47″ (RT)	Δ = 18° 58′ 59″ (LT)	Δ = 15° 04′ 41″ (LT)
Dc = 16° 22′ 13″	Dc = 16° 22′ 13″	Dc = 16° 22′ 13″
R = 350.00′	R = 350.00′	R = 350.00′
T = 34.92′	T = 58.52′	T = 46.32′
L = 69.62′	L = 115.96′	L = 92.11′
E = 1.74′	E = 4.86′	E = 3.05′
C = 69.50′	C = 115.43′	C = 91.84′
C.B. = N 1° 54′ 41″ E	C.B. = N 23° 16′ 47″ E	C.B. = N 74° 55′ 49″ E
e_{max}= NC/DS=30 MPH	e_{max}= NC/DS=35 MPH	e_{max}= NC/DS=35 MPH

CROSS REFERENCES	
SHEET	DESCRIPTION
225 - 228	INTERSECTION DETAIL SHEETS
231	INTERSECTION GRADING SHEETS
233	DRIVEWAY PROFILE SHEETS
112, 239	STORM SEWER PROFILES
250	BMP PROFILES / DETAILS

EX. DRIVE TO BE REMOVED

	STATION	OFFSET	ELEVATION
1	143+29.13	73.42′ RT	MATCH EX.
2	143+34.24	81.23′ RT	MATCH EX.

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

(A) +06.03 END ANCHOR ASSEMBLY TYPE E

MATCH LINE STA. 139+50, SEE SHEET 109

MATCH LINE STA. 143+50, SEE SHEET 113

MATCH LINE STA. 240+00, SEE SHEET 115

HORIZONTAL SCALE IN FEET
0 10 20 40

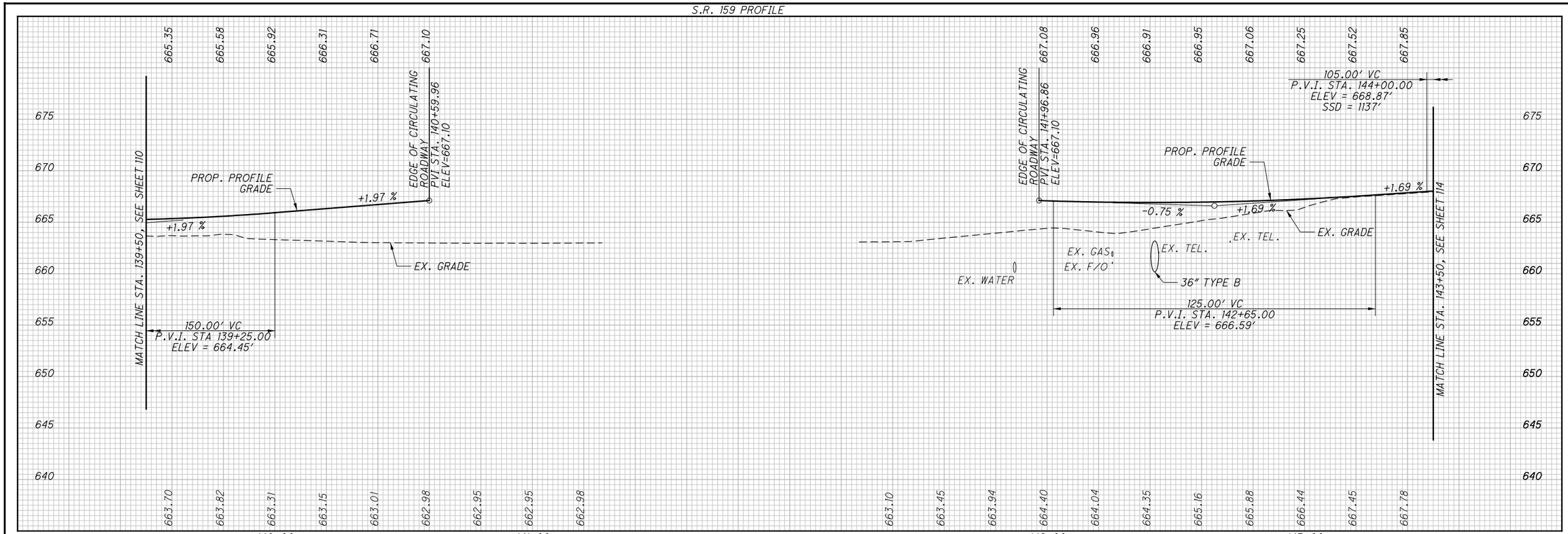
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159 / S.R. 180 (ROUNDABOUT)
STA. 139+50 TO STA. 143+50

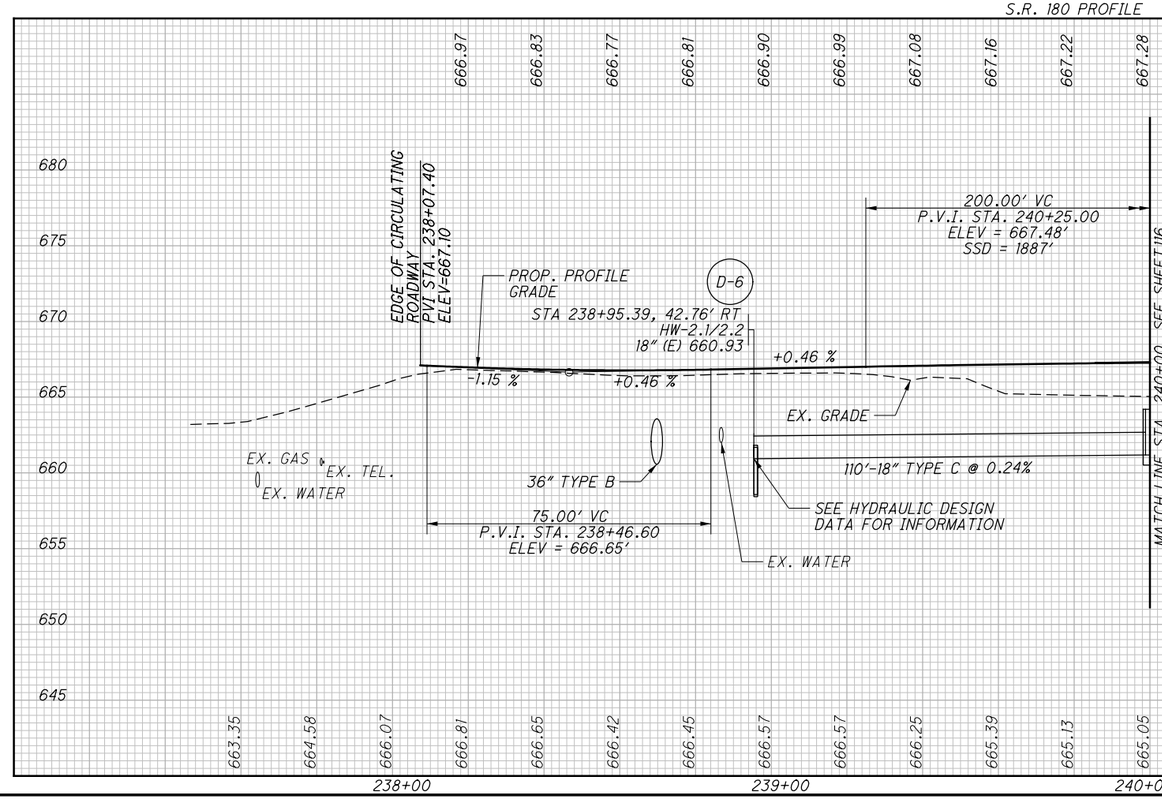
ROS-207-0.00

111
332

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S.R. 180 PROFILE



HYDRAULIC DESIGN DATA
DRAINAGE AREA: 2 ACRES
Q(10): 4.8 CFS
Q(25): 5.4 CFS
HGL(10): 662.09 FT
HGL(25): 662.27 FT
V(10): 2.7 FT/S
pH: 7.4
DESIGN SERVICE LIFE: 75 YR
ABRASION LEVEL: 1

MATERIAL ALTERNATIVES: 707.01 (0.249) GALVANIZED, 707.01 (0.109) GALVANIZED W/ PAVED INVERT, 707.01 (0.064) ALUMINIZED, 707.05 (0.079), 707.12 (0.064), 707.13 (0.188)

CALCULATED CLW
CHECKED DMV

PROFILE - S.R. 159 / S.R. 180 (ROUNDABOUT)
STA. 139+50 TO STA. 143+50

ROS-207-0.00

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	STATION	OFFSET	ELEVATION
1	143+62.86	44.18' RT	663.60
2	143+74.85	35.57' RT	664.60
3	143+83.70	37.66' RT	664.80
4	143+85.52	47.68' RT	MATCH EX.
5	143+67.70	52.53' RT	MATCH EX.

(A) +25.31, TIE TO TYPE 5 GUARDRAIL, MGS-4.3 (TYP)
(B) +31.48, TIE TO TYPE 5 GUARDRAIL, MGS-4.3 (TYP)

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

EX. DRIVE TO BE REMOVED

KINNIKINNICK FEN NATURE PRESERVE PARCEL
END WORK STA. 144+53.49
DITCH EROSION PROT MAT, TYPE A, 14.5' X 106' = 171 SY
CONSTRUCTION LIMITS
TELEPHONE, CABINET AND POLES (DND)
8" WATER (RBO)
GUARDRAIL TYPE MGS +60.00
END ANCHOR TYPE T
4" GAS (RBO)
8" WATER (DND)
4" GAS (DND)
BEGIN SHOULDER TAPER STA. 144+25.00, 14.53' LT.
END PAVEMENT TAPER STA. 144+51.43, 11.63' LT.
PI Sta. 144+60.07
STA. 144+50.30, 17.83' LT. TYPE 5 GUARDRAIL BTA TYPE 4 SEE NOTE 1 FOR TRANSITION DETAILS
PI Sta. 145+62.39
PC Sta. 146+69.84
PI Sta. 148+68.45
CURVE 14
N 13° 24' 32" E
N 13° 47' 18" E
N 14°
GRAVEL
4" GAS (DND)
8" WATER
4" GAS
Ex U
Ex SH
OH-E
24"
48"
1 STORY FRAME RESIDENTIAL
2 STORY FRAME RESIDENTIAL
MATCH LINE STA. 143+50, SEE SHEET 111
LA R/W
SAWCUT
CURVE 11
EX. UTILITY POLES (DND)
END FULL DEPTH PAVEMENT LT/RT
BEGIN PAVEMENT PLANING AND OVERLAY TAPER STA. 144+25.00, 14.70' RT.
END PAVEMENT TAPER STA. 144+54.99, 11.73' RT.
6" WATER (DND)
STRUCTURE NO. ROS-159-06610
STA. 144+56.46, 17.50' RT. TYPE 5 GUARDRAIL BTA TYPE 4 SEE NOTE 2 FOR TRANSITION DETAILS
PROP. GRAVEL DRIVE
GUARDRAIL TYPE MGS
CONSTRUCTION LIMITS
GUARDRAIL TYPE MGS
KINNIKINNICK CREEK
℄ CONSTRUCTION S.R. 159
E-11
R-11
U-32
U-31
GR-1
GR-2
R-12
U
TMP
E&ASR/W
SH
SR
RP
PC
PT
PI
℄

CURVE 11
P.I. Sta. 143+51.62
Δ = 18° 58' 59" (LT)
Dc = 16° 22' 13"
R = 350.00'
T = 58.52'
L = 115.96'
E = 4.86'
C = 115.43'
C.B. = N 23° 16' 47" E
e_{max} = NC/DS=35 MPH

EX CURVE 14
P.I. Sta. 147+69.20
Δ = 0° 59' 37" (RT)
Dc = 0° 30' 00"
R = 11,459.16'
T = 99.36'
L = 198.71'
E = 0.43'
C = 198.71'
C.B. = N 13° 54' 20" E

NOTE 1: STA. 143+87.50 TO STA, 144+12.50 TRANSITION FROM MGS TO TYPE 5 GUARDRAIL PER SCD MGS-4.3
NOTE 2: STA. 143+93.96 TO STA, 144+18.96 TRANSITION FROM MGS TO TYPE 5 GUARDRAIL PER SCD MGS-4.3

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CLW
CHECKED DMV

PLAN SHEET - S.R. 159
STA. 143+50 TO END WORK

ROS-207-0.00

113
332

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668.18 668.48 668.74 668.95 669.14

END WORK
STA. 144+53.49

105.00' VC
P.V.I. STA. 144+00.00
ELEV = 668.87'
SSD = 1137'

669.24

+1.69 %

+0.69 %

PROP. PROFILE GRADE

MATCH LINE STA. 143+50, SEE SHEET 112

STRUCTURE NO.
ROS-159-06610

UPSTREAM 100 YR WSE = 664.9

UPSTREAM 500 YR WSE = 665.9

EX. GRADE

KINNIKINNICK CREEK

DOWNSTREAM 500 YR WSE = 663.7

DOWNSTREAM 100 YR WSE = 663.4

DOWNSTREAM OWHM = 658.7

705 700 695 690 685 680 675 670 665 660 655 650 645 640 635 630 625 620

668.13 668.45 668.74 668.94 669.12 669.26 669.33 669.38 669.40 669.39 669.35 669.24 669.34 669.17 669.01 668.88 668.75 668.57 668.39 668.34 668.29 668.32 668.39 668.54 668.89 669.01 669.13 669.25

144+00 145+00 146+00 147+00

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CALCULATED CLW
CHECKED DMV

PROFILE - S.R. 159
STA. 143+50 TO END WORK

ROS-207-0.00

CROSS REFERENCES	
SHEET	DESCRIPTION
233	DRIVEWAY PROFILE SHEET
112 & 116	STORM SEWER PROFILE

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

EX. SIDEWALK TO BE REMOVED

MATCH LINE STA. 240+00, SEE SHEET 111

CURVE 12
P.I. Sta. 240+02.36
Δ = 15° 04' 41" (LT)
Dc = 16° 22' 13"
R = 350.00'
T = 46.32'
L = 92.11'
E = 3.05'
C = 91.84'
C.B. = N 74° 55' 49" E
e_{max}= NC/DS=35 MPH

CURVE 13
P.I. Sta. 242+58.31
Δ = 5° 46' 07" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 144.34'
L = 288.43'
E = 3.63'
C = 288.31'
C.B. = N 70° 16' 32" E
e_{max}= 0.032/DS=45 MPH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

PLAN SHEET
STA. 240+00 TO END WORK

ROS-207-0.00

115
332

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667.28 667.32 667.35 667.36 667.37 667.36 667.34 667.32 667.30 667.31 667.34 667.38 667.44 667.52 667.62 667.72 667.81 667.90 667.98 668.05 668.11 668.16 668.21 668.25 668.27 668.30

705 700 695 690 685 680 675 670 665 660 655 650 645 640 635 630 625 620

MATCH LINE STA. 240+00, SEE SHEET 112

200.00' VC
P.V.I. STA. 240+25.00
ELEV = 667.48'
SSD = 1887'

D-5
STA 240+00.18, 32.94' RT
CB-2-2B, GRATE ELEV 664.20
18" (NE) 661.19
18" (W) 661.19

D-4
STA 241+50.00, 28.60' RT
CB-2-2B, GRATE ELEV 664.75
18" (E) 661.56
18" (SW) 661.56
6" (NE) 663.75

D-3
STA 242+50.00, 31.15' RT
CB-2-2B, GRATE ELEV 664.75
18" (W) 661.80
15" (E) 662.09

D-2
STA 243+50.00, 35.35' RT
CB-2-2B, GRATE ELEV 664.75
15" (W) 662.33
15" (E) 662.33

175.00' VC
P.V.I. STA. 243+93.25
ELEV = 668.17'
SSD = 3084'

D-1
STA 244+50.00, 34.89' RT
CB-2-2B, GRATE ELEV 665.20
15" (W) 662.73

END WORK
STA. 245+05.00

668.31

+0.46 % -0.14 % -0.14 % -0.14 % +0.48 % +0.48 % +0.48 % +0.12 % +0.12 %

EX. GRADE
EX. WATER
PROP. PROFILE GRADE

EX. WATER EX. WATER 154'-18" TYPE C @ 0.24%
EX. WATER EX. WATER EX. WATER
99'-18" TYPE C @ 0.24%
EX. WATER EX. GAS
99'-15" TYPE C @ 0.24%
EX. WATER EX. GAS
100'-15" TYPE C @ 0.40%
EX. WATER

135.00' VC
P.V.I. STA. 242+00.00
ELEV = 667.23'

MATERIAL ALTERNATIVES: 707.01 (0.249) GALVANIZED, 707.01 (0.109) GALVANIZED W/ PAVED INVERT, 707.01 (0.064) ALUMINIZED, 707.05 (0.079), 707.12 (0.064), 707.13 (0.188)

665.05 665.05 665.24 665.45 665.84 666.73 666.74 667.13 667.47 667.50 667.48 667.47 667.45 667.48 667.58 667.68 667.74 667.80 667.89 667.98 668.08 668.10 668.10 668.10 668.19 668.28 668.38 668.54 668.70

240+00 241+00 242+00 243+00 244+00 245+00

CALCULATED CLW
CHECKED DMV

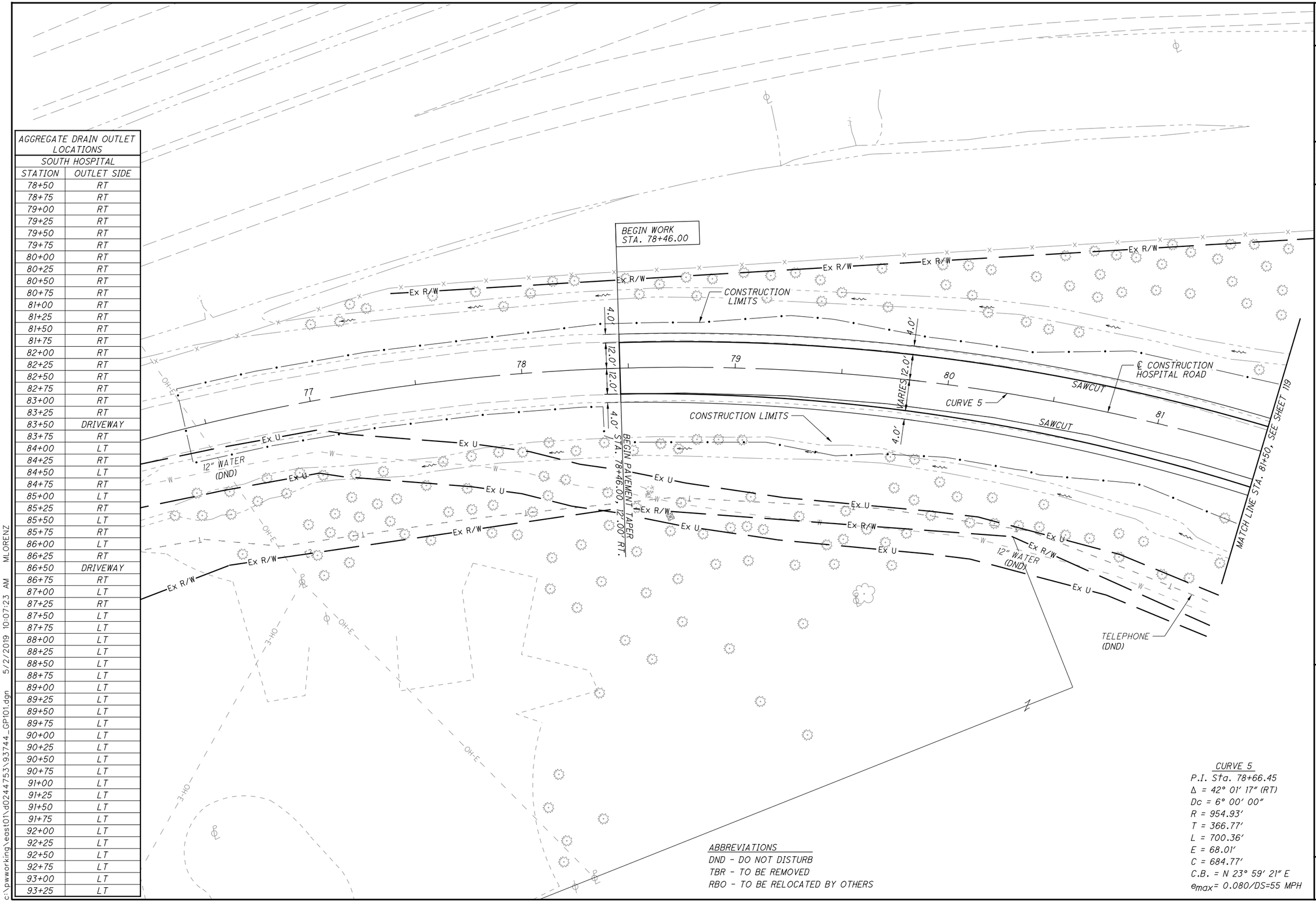
PROFILE - S.R. 180
STA. 240+00 TO END WORK

ROS-207-0.00

116
332

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AGGREGATE DRAIN OUTLET LOCATIONS	
SOUTH HOSPITAL	
STATION	OUTLET SIDE
78+50	RT
78+75	RT
79+00	RT
79+25	RT
79+50	RT
79+75	RT
80+00	RT
80+25	RT
80+50	RT
80+75	RT
81+00	RT
81+25	RT
81+50	RT
81+75	RT
82+00	RT
82+25	RT
82+50	RT
82+75	RT
83+00	RT
83+25	RT
83+50	DRIVEWAY
83+75	RT
84+00	LT
84+25	RT
84+50	LT
84+75	RT
85+00	LT
85+25	RT
85+50	LT
85+75	RT
86+00	LT
86+25	RT
86+50	DRIVEWAY
86+75	RT
87+00	LT
87+25	RT
87+50	LT
87+75	LT
88+00	LT
88+25	LT
88+50	LT
88+75	LT
89+00	LT
89+25	LT
89+50	LT
89+75	LT
90+00	LT
90+25	LT
90+50	LT
90+75	LT
91+00	LT
91+25	LT
91+50	LT
91+75	LT
92+00	LT
92+25	LT
92+50	LT
92+75	LT
93+00	LT
93+25	LT



ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

CURVE 5

P.I. Sta. 78+66.45
Δ = 42° 01' 17" (RT)
Dc = 6° 00' 00"
R = 954.93'
T = 366.77'
L = 700.36'
E = 68.01'
C = 684.77'
C.B. = N 23° 59' 21" E
e_{max} = 0.080/DS=55 MPH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

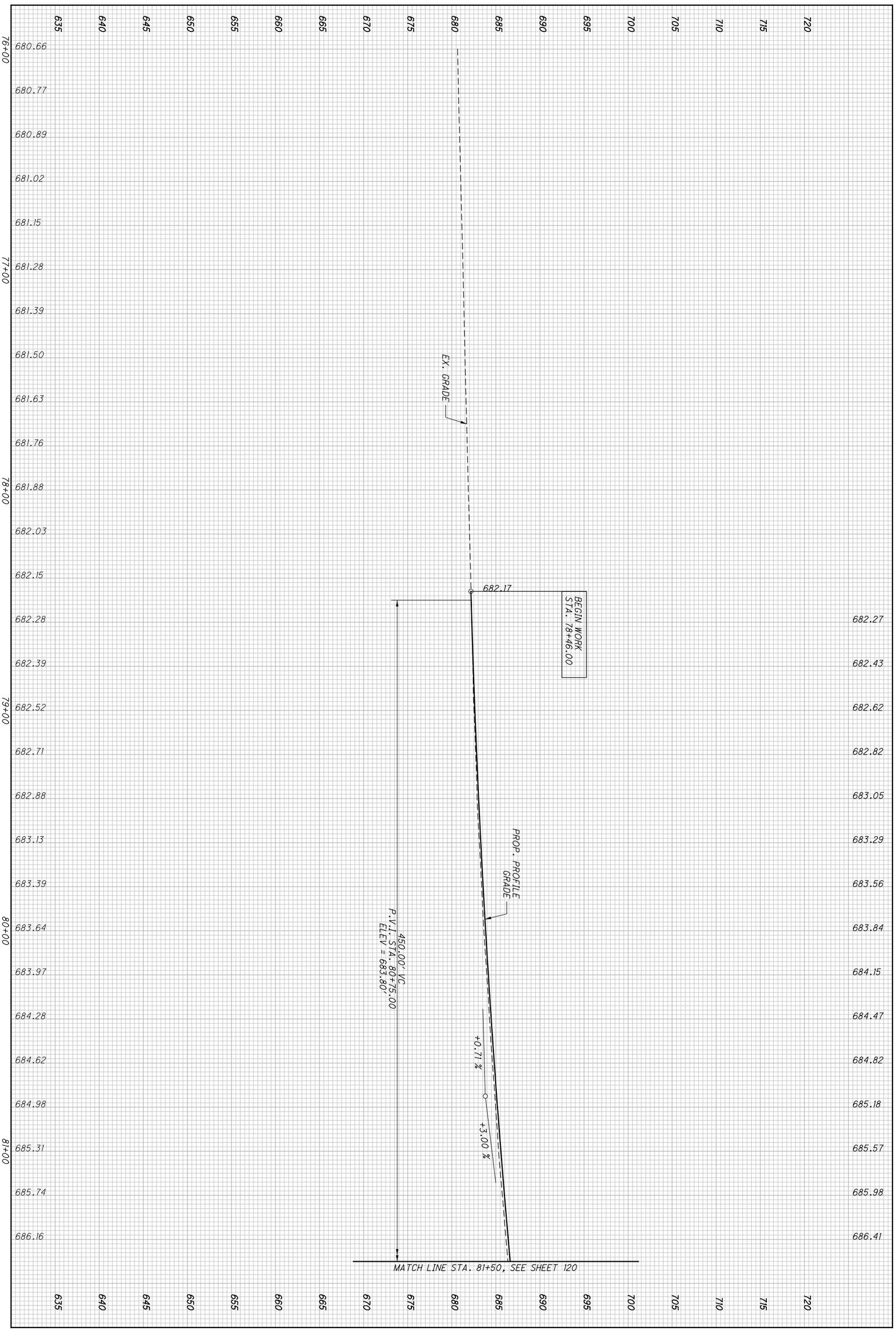
PLAN SHEET - HOSPITAL RD.
BEGIN WORK TO STA. 81+50

ROS-207-0.00

117
332

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118 / 332	ROS-207-0.00	PROFILE - HOSPITAL RD. BEGIN WORK TO STA. 81+50	CALCULATED CLW CHECKED DMV

PLAN SHEET - HOSPITAL RD.
STA. 81+50 TO STA. 87+00

ROS-207-0.00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

119
332

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MATCH LINE STA. 81+50, SEE SHEET 117

MATCH LINE STA. 87+00, SEE SHEET 121

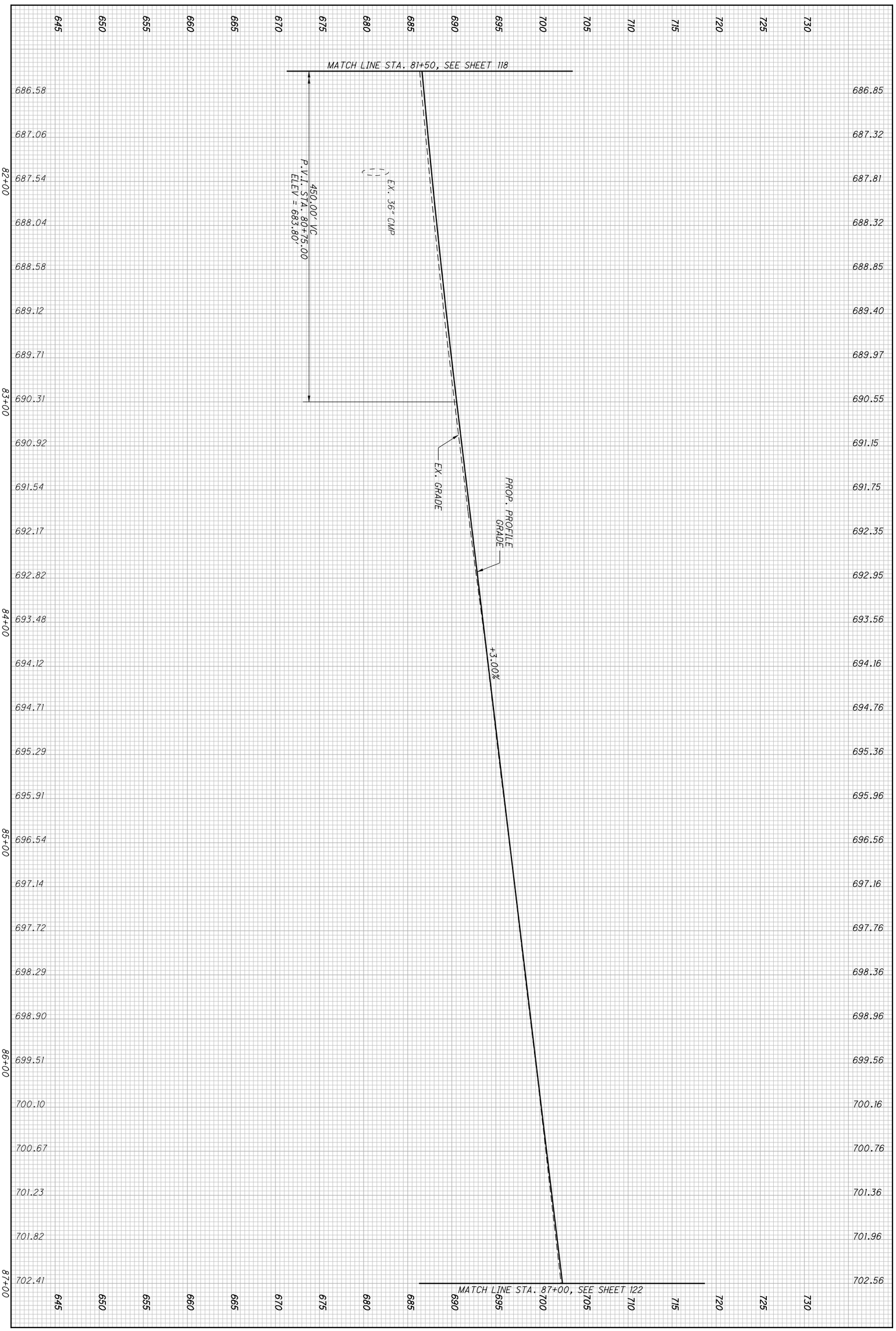
Ex R/W
Ex LA-R/W
EX. FIELD DRIVE
DND
EX. DRIVE PIPE
STA. 86+80.91
38.00' LT
CONSTRUCTION LIMITS
STA. 86+18.01
38.00' LT
25' R
12.0' FIELD DRIVE
EX. 36" CMP
EX. OVERHEAD ELECTRIC TRANSMISSION LINE
82
83
84
85
86
SAWCUT
4'
12'
24'
80°
+55.97
CURVE 5
VARIES
+47.17
90°
N 45° 00' 00" E
℄ CONSTRUCTION HOSPITAL ROAD
PT Sta. 82+00.04
STA. 83+14.67
46.53' RT
ANCHOR ASSEMBLY TYPE T WITH ROUNDED BUFFER
℄ 15.0' FIELD DRIVE
STA. 83+79.67
47.71' RT
R-25
GR-3
GUARDRAIL TYPE MGS
EARTH DIKE
PROPOSED DITCH
+10
BIORETENTION CELL #1
END PAVEMENT TAPER
STA. 85+06.00, 24.00' RT.
EX. 30" CMP
EX. FIELD DRIVE
Ex U
TELEPHONE (DND)
12" WATER (DND)
TELEPHONE (RBO)
PROPOSED UNDERDRAIN OUTLET, TYP.
OBSERVATION WELL/CLEANOUT (TYP)
EROSION CONTROL MAT, TYPE A
CONSTRUCTION LIMITS
12" WATER (DND)
OH-E
R/W

CURVE 5
P.I. Sta. 78+66.45
Δ = 42° 01' 17" (RT)
Dc = 6° 00' 00"
R = 954.93'
T = 366.77'
L = 700.36'
E = 68.01'
C = 684.77'
C.B. = N 23° 59' 21" E
e_{max} = 0.080/DS=55 MPH

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

CROSS REFERENCES	
SHEET	DESCRIPTION
235	DRIVEWAY PROFILE SHEET
248 - 247	BMP PROFILES / DETAILS



120 / 332	ROS-207-0.00	PROFILE - HOSPITAL RD. STA. 81+50 TO STA. 87+00	CALCULATED CLW / CHECKED DMV

CROSS REFERENCES	
SHEET	DESCRIPTION
248 - 247	BMP PROFILES / DETAILS

CURVE 6
P.I. Sta. 91+65.23
Δ= 60° 00′ 00″ (LT)
Dc = 18° 00′ 00″ (NDC DC=6°00′)
R = 318.31′
T = 183.78′
L = 333.33′
E = 49.24′
C = 318.31′
C.B. = N 15° 00′ 00″ E
emax= 0.040/DS= N/A (NDC = 0.080)

Ex R/W
Ex LA-R/W
CONSTRUCTION LIMITS
MATCH LINE STA. 87+00, SEE SHEET 119
MATCH LINE STA. 92+50, SEE SHEET 81
SAWCUT
4′
12′
24′
88
N 45° 00′ 00″ E
89
90
91
92
PC Sta. 89+81.45
℄ CONSTRUCTION HOSPITAL ROAD
GUARDRAIL TYPE MGS
CURVE 6
R-25
TELEPHONE (RBO)
BIORETENTION CELL #1
12″ WATER (DND)
EROSION CONTROL MAT, TYPE A
END POST TERMINAL ASSEMBLY STA: 88+98.76 OFFSET: 137.38 RT
STA. 89+00 BEGIN 20′ WIDE DITCH
12″ WATER RBO WHERE IT CROSSES THE PROPOSED BIORETENTION CELL
20.0′
12.0′
GR-3
R-26
OBSERVATION WELL/CLEANOUT (TYP)
EX. FENCE (TBR)
TELEPHONE (DND)
TURF REINFORCING MAT, TYPE 1, 11′ X 203.5′ = 249 SY
12″ WATER (DND)
E-13
E-12
F-1
STA. 90+00 END 12′ WIDE DITCH
STA. 91+10 BEGIN 12′ WIDE DITCH
STA. 91+20 END 6′ WIDE DITCH
STA. 91+94 BEGIN 6′ WIDE DITCH
PROPOSED DITCH
ROCK CHANNEL PROTECTION, TYPE C W/ FILTER, 117′ X 16.5′ X 18″ = 107 CY
PROPOSED R/W FENCE TYPE 47
CORNER POST ASSEMBLY STA: 90+68.60 OFFSET: 157.69 RT
CONSTRUCTION LIMITS

ITEM 836 - TURF REINFORCING MAT, TYPE 1
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
ITEM 671 - EROSION CONTROL MAT, TYPE A
ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 601 - ROCK CHANNEL PROTECTION

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

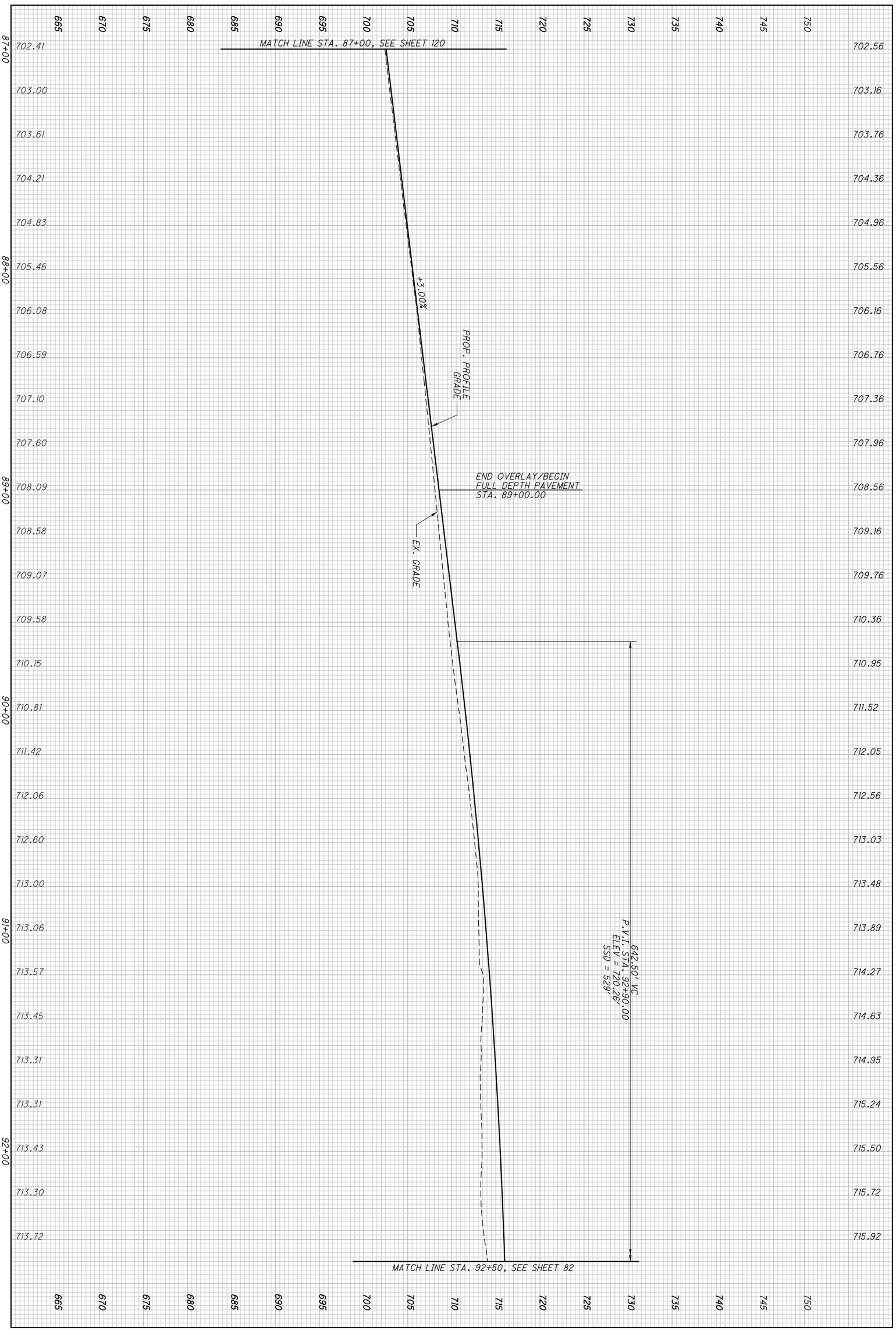
HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CLW
CHECKED DMV

PLAN SHEET - HOSPITAL RD.
STA. 87+00 TO STA. 92+50

ROS-207-0.00

121
332

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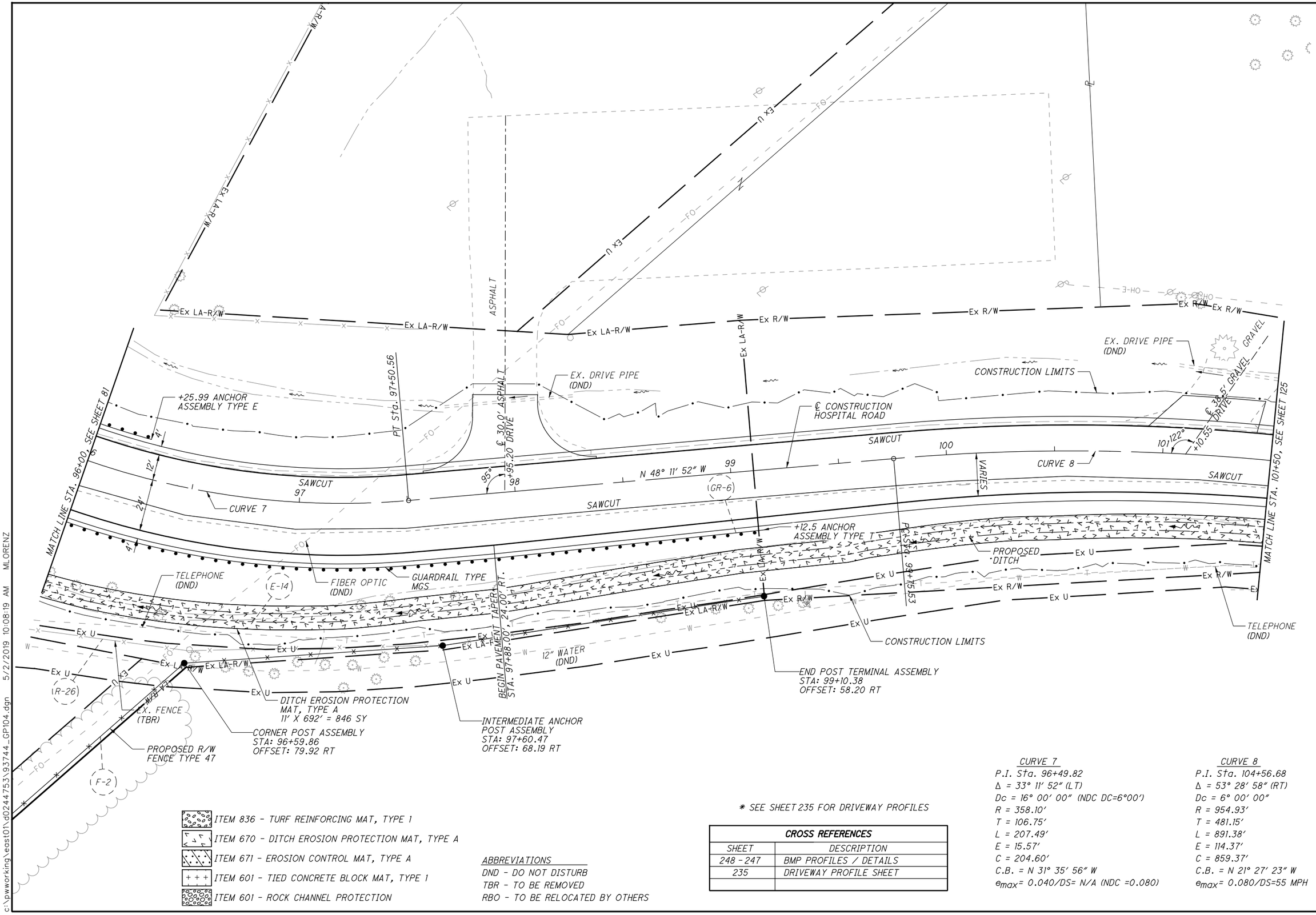


122
332

ROS-207-0.00

PROFILE - HOSPITAL RD.
STA. 87+00 TO STA. 92+50

CALCULATED CLW
CHECKED DMV



ITEM 836 - TURF REINFORCING MAT, TYPE 1

ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A

ITEM 671 - EROSION CONTROL MAT, TYPE A

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

ITEM 601 - ROCK CHANNEL PROTECTION

ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

* SEE SHEET 235 FOR DRIVEWAY PROFILES

CROSS REFERENCES	
SHEET	DESCRIPTION
248 - 247	BMP PROFILES / DETAILS
235	DRIVEWAY PROFILE SHEET

CURVE 7

P.I. Sta. 96+49.82
Δ = 33° 11' 52" (LT)
Dc = 16° 00' 00" (NDC DC=6°00')
R = 358.10'
T = 106.75'
L = 207.49'
E = 15.57'
C = 204.60'
C.B. = N 31° 35' 56" W
e_{max}= 0.040/DS= N/A (NDC =0.080)

CURVE 8

P.I. Sta. 104+56.68
Δ = 53° 28' 58" (RT)
Dc = 6° 00' 00"
R = 954.93'
T = 481.15'
L = 891.38'
E = 114.37'
C = 859.37'
C.B. = N 21° 27' 23" W
e_{max}= 0.080/DS=55 MPH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CLW
CHECKED DMV

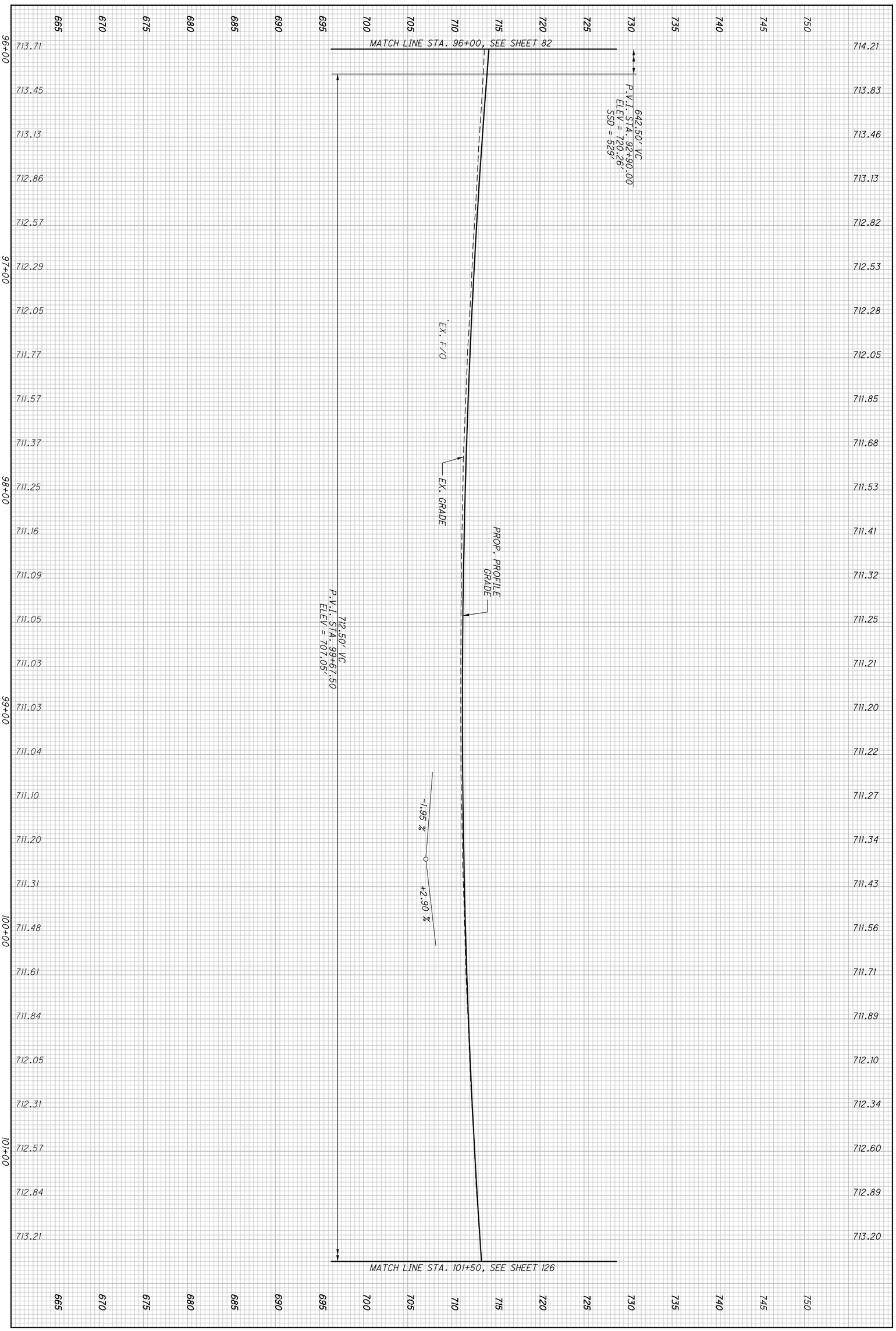
PLAN SHEET - HOSPITAL RD.
STA. 96+00 TO STA. 101+50

ROS-207-0.00

123
332

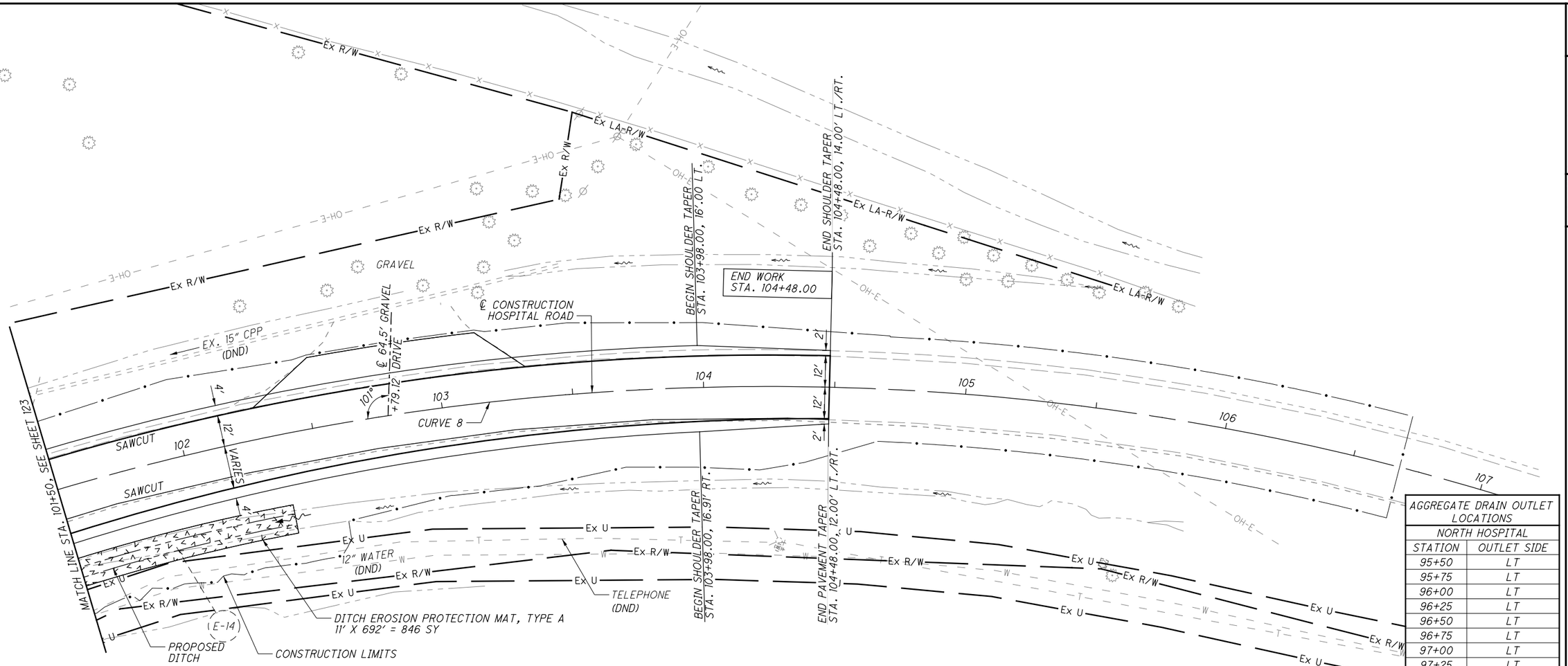
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124 / 332	ROS-207-0.00	PROFILE - HOSPITAL RD. STA. 96+00 TO STA. 101+50

CALCULATED CLW
CHECKED DMV



CURVE 8
P.I. Sta. 104+56.68
Δ = 53° 28′ 58″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 481.15′
L = 891.38′
E = 114.37′
C = 859.37′
C.B. = N 21° 27′ 23″ W
e_{max}= 0.080/DS=55 MPH

- ITEM 836 - TURF REINFORCING MAT, TYPE 1
- ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A
- ITEM 671 - EROSION CONTROL MAT, TYPE A
- ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1
- ITEM 601 - ROCK CHANNEL PROTECTION

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

CROSS REFERENCES	
SHEET	DESCRIPTION
248 - 247	BMP PROFILES / DETAILS
235	DRIVEWAY PROFILE SHEET

AGGREGATE DRAIN OUTLET LOCATIONS

NORTH HOSPITAL	
STATION	OUTLET SIDE
95+50	LT
95+75	LT
96+00	LT
96+25	LT
96+50	LT
96+75	LT
97+00	LT
97+25	LT
97+50	LT
97+75	LT
98+00	DRIVEWAY
98+25	RT
98+50	RT
98+75	RT
98+97	RT
99+00	RT
99+25	RT
99+50	RT
99+75	RT
100+00	RT
100+25	RT
100+50	RT
100+75	RT
101+00	RT
101+25	RT
101+50	RT
101+75	RT
102+00	RT
102+25	RT
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103+75	RT
104+00	RT
104+25	RT

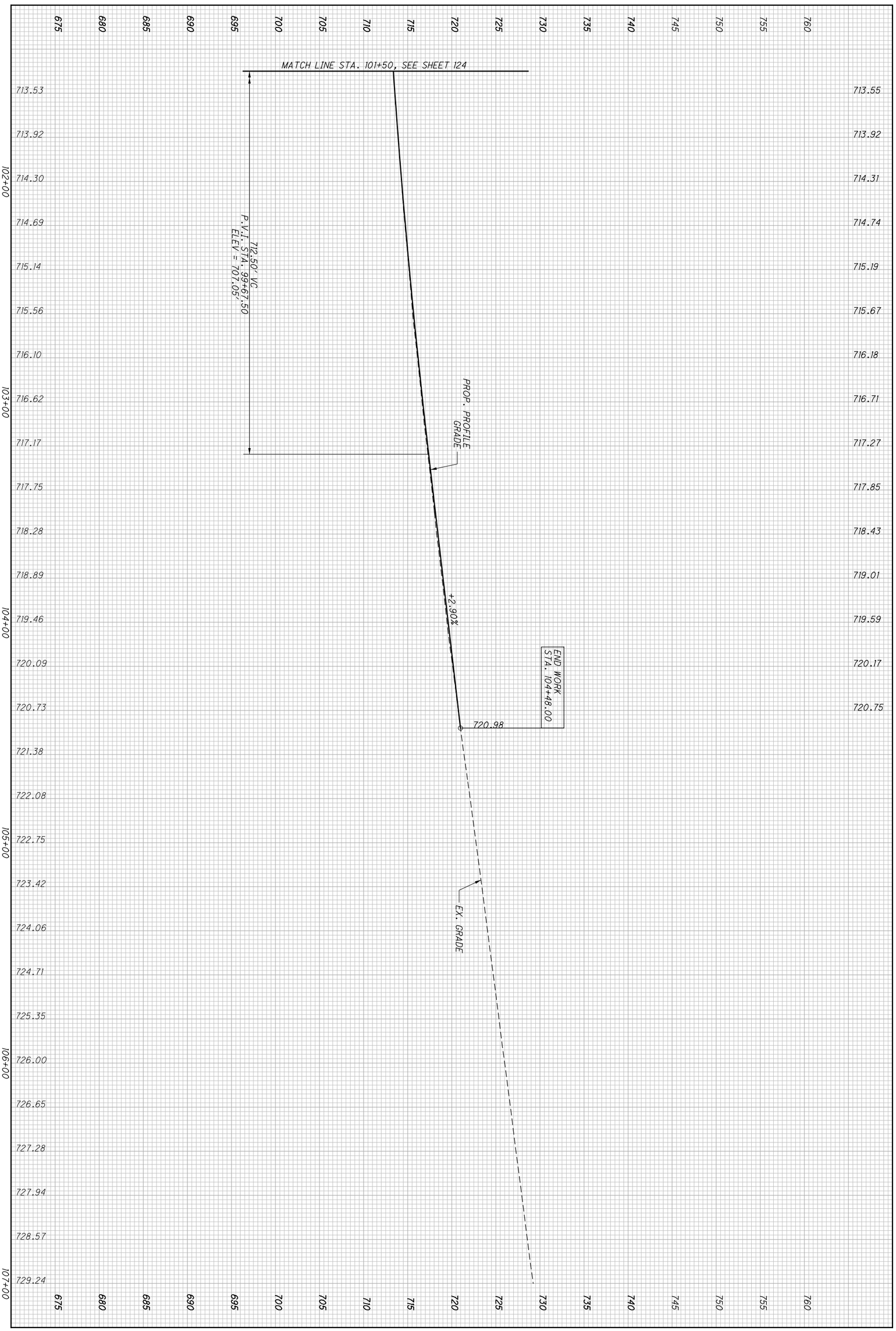
HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CLW
CHECKED DMV

PLAN SHEET - HOSPITAL RD.
STA. 101+50 TO END WORK

ROS-207-0.00

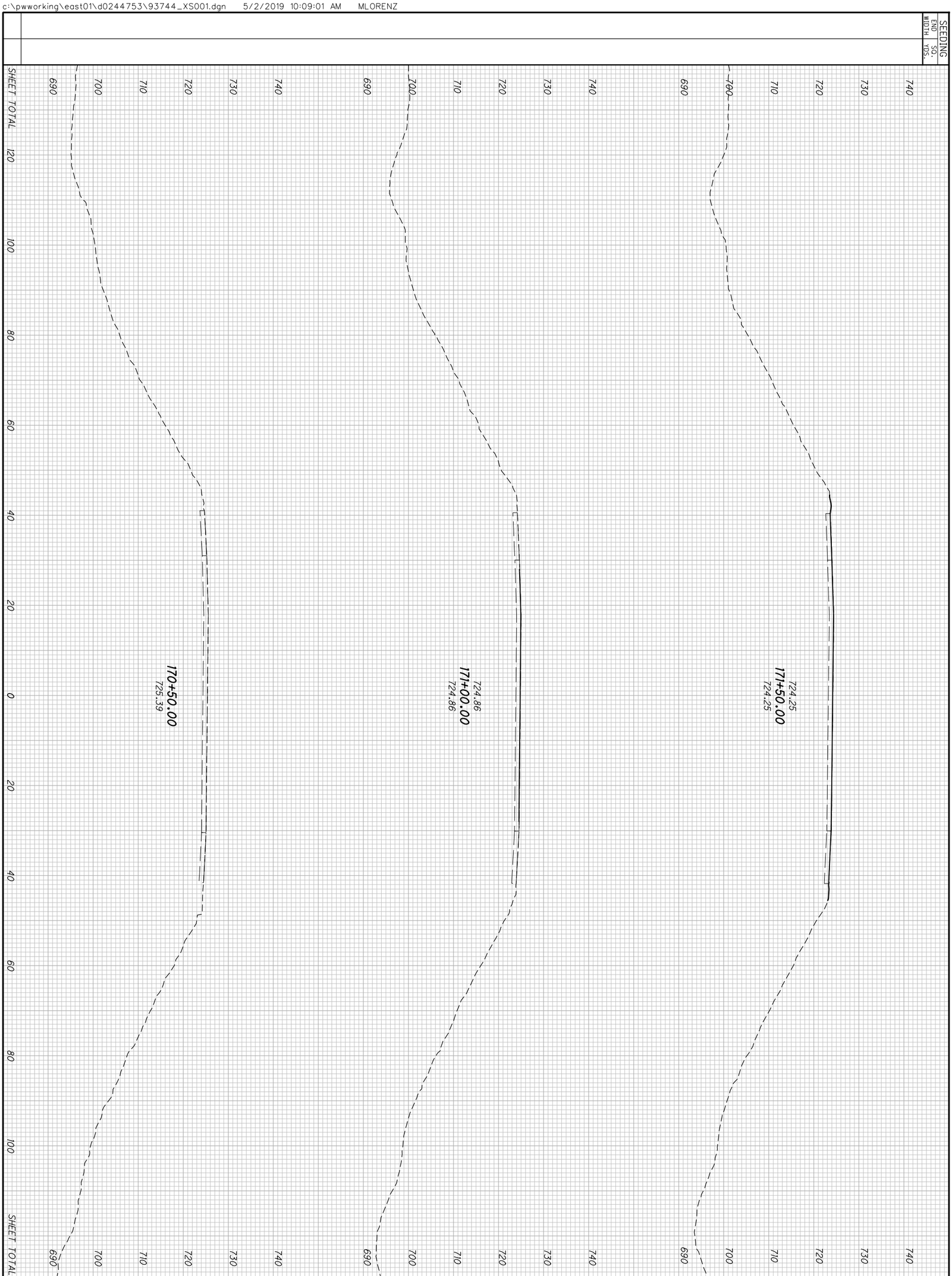
125
332

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126 / 332	ROS-207-0.00	PROFILE - HOSPITAL RD. STA. 101+50 TO END WORK	CALCULATED CLW CHECKED DMV

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END AREA CUT FILL VOLUME CUT FILL

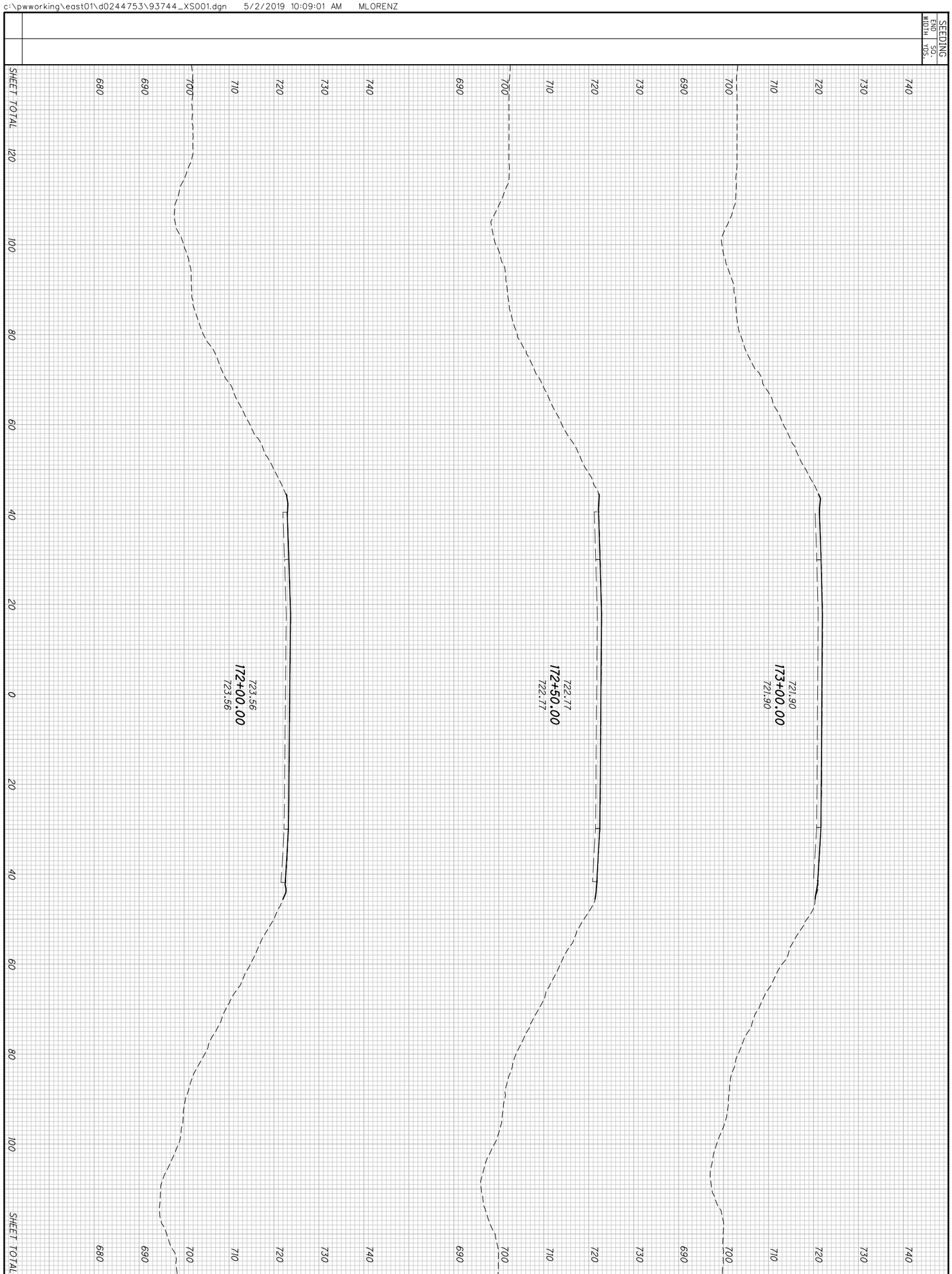
127
332

ROS-207-0.00

CROSS SECTIONS C.R. 207A
STA. 170+50.00 TO STA. 171+50.00

CALCULATED MJL
CHECKED DMV

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END AREA CUT FILL VOLUME CUT FILL

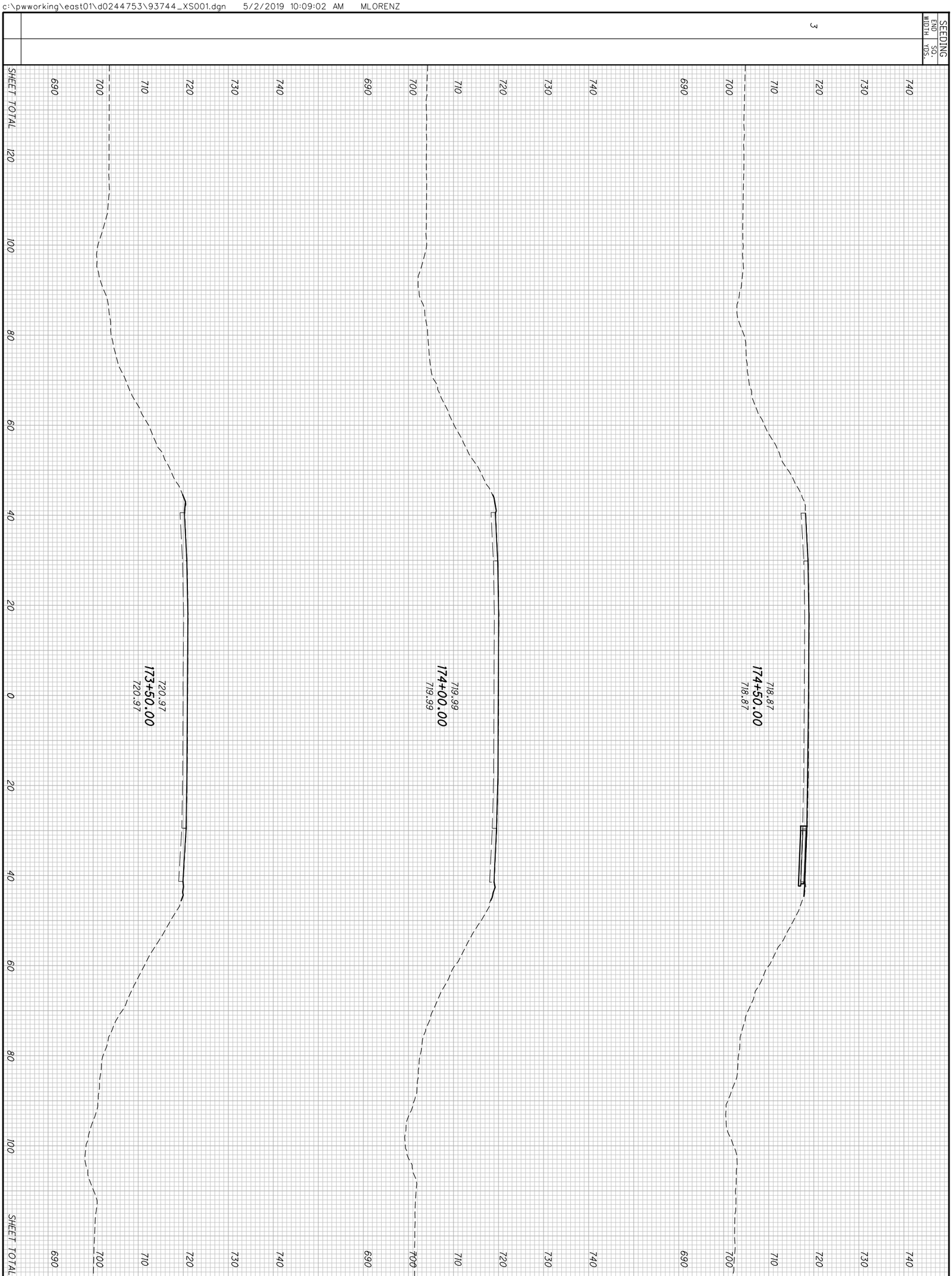
128
332

ROS-207-0.00

CROSS SECTIONS C.R. 207A
STA. 172+00.00 TO STA. 173+00.00

CALCULATED MJL
CHECKED DMV

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:02 AM MLORENZ



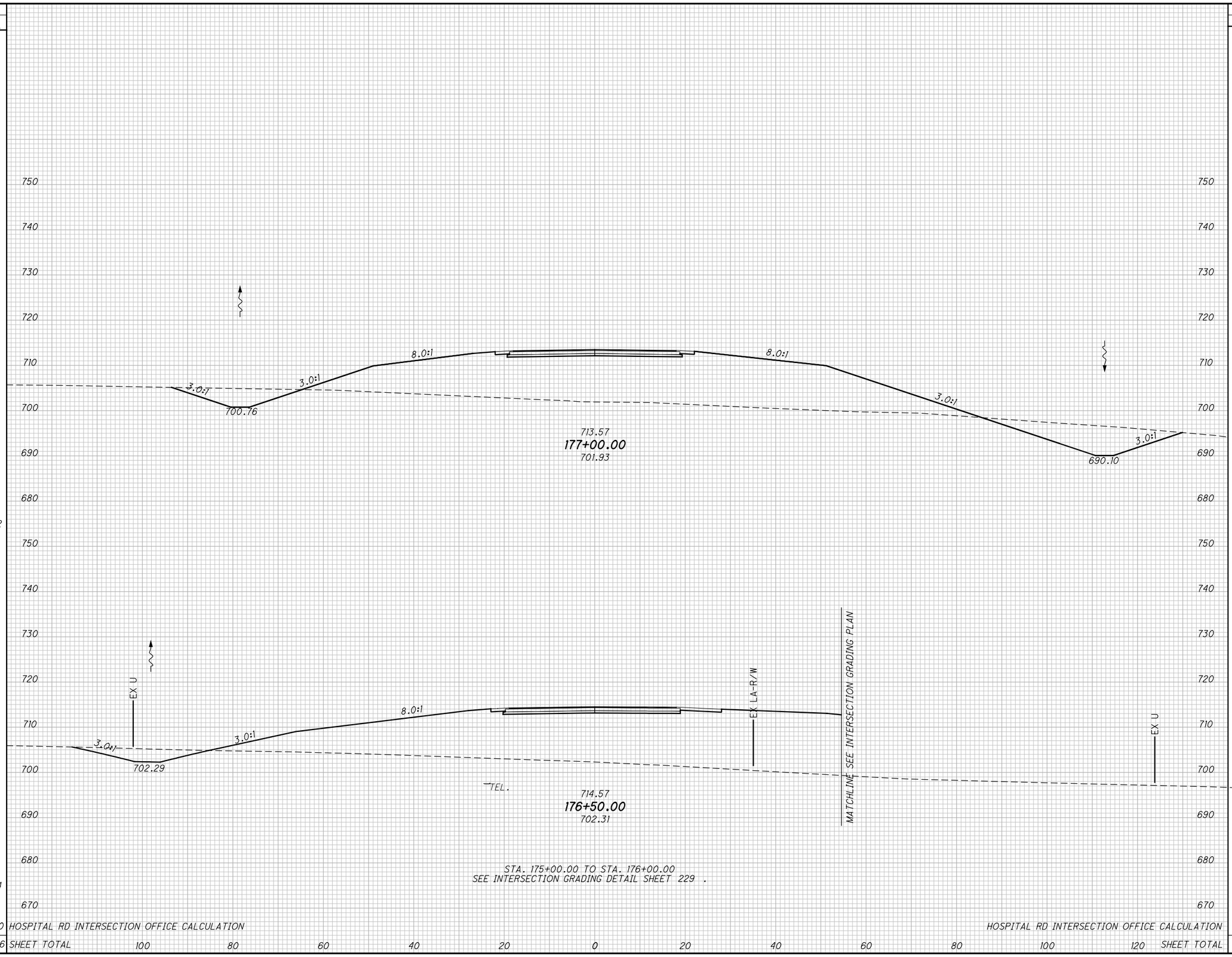
129
332

ROS-207-0.00

CROSS SECTIONS C.R. 207A
STA. 173+50.00 TO STA. 174+50.00

CALCULATED MJL
CHECKED DMV

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
188		225	1188		
	792			255	2296
97		50	1292		
	574			47	1495
	1040			88	300
	2406			390	4091



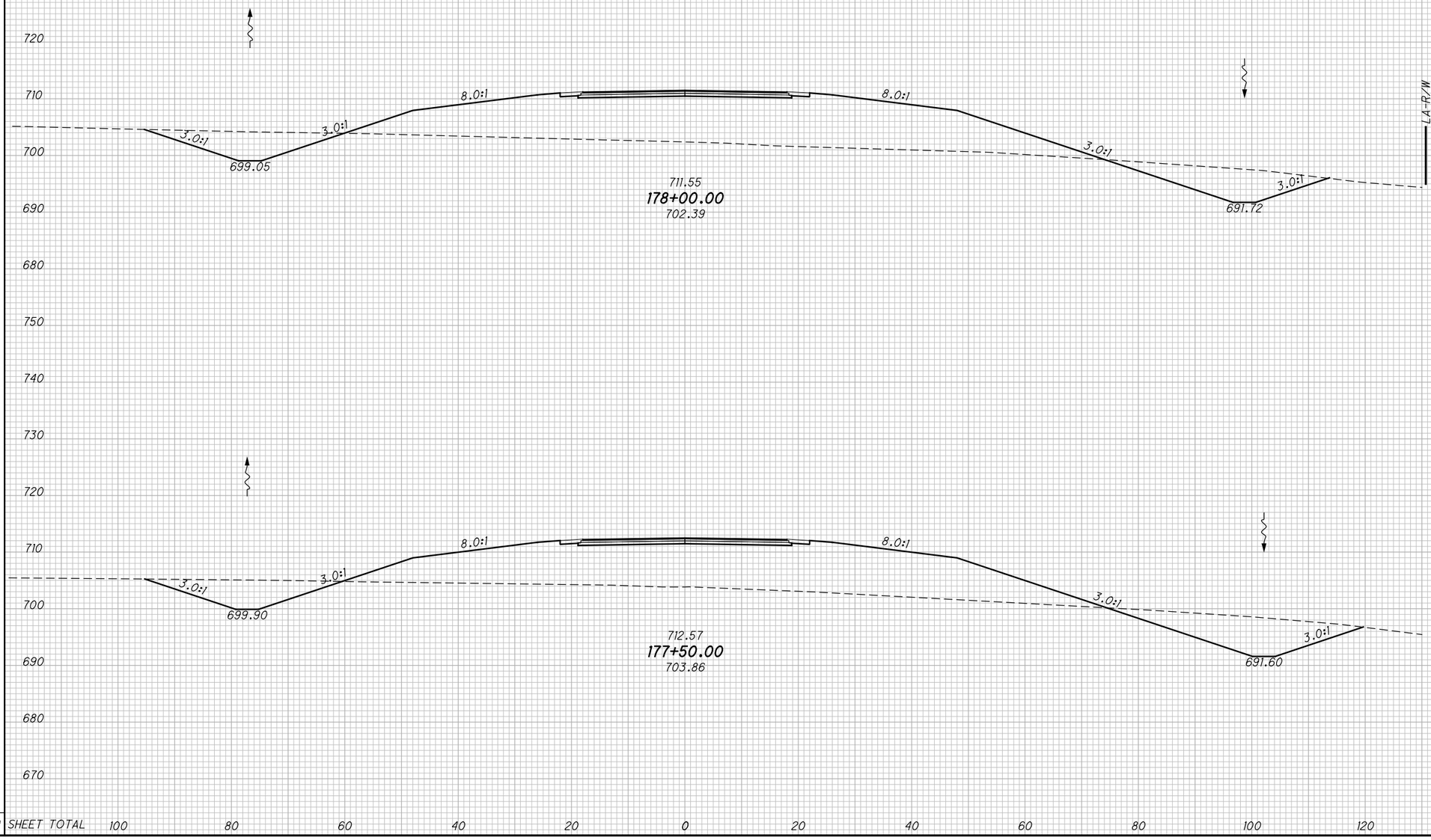
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 176+50.00 TO STA. 177+00.00

ROS-207-0.00

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:02 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
171	965	229	853	462	1560
177	1014	271	832	459	1870
	1979 SHEET TOTAL			921	3430



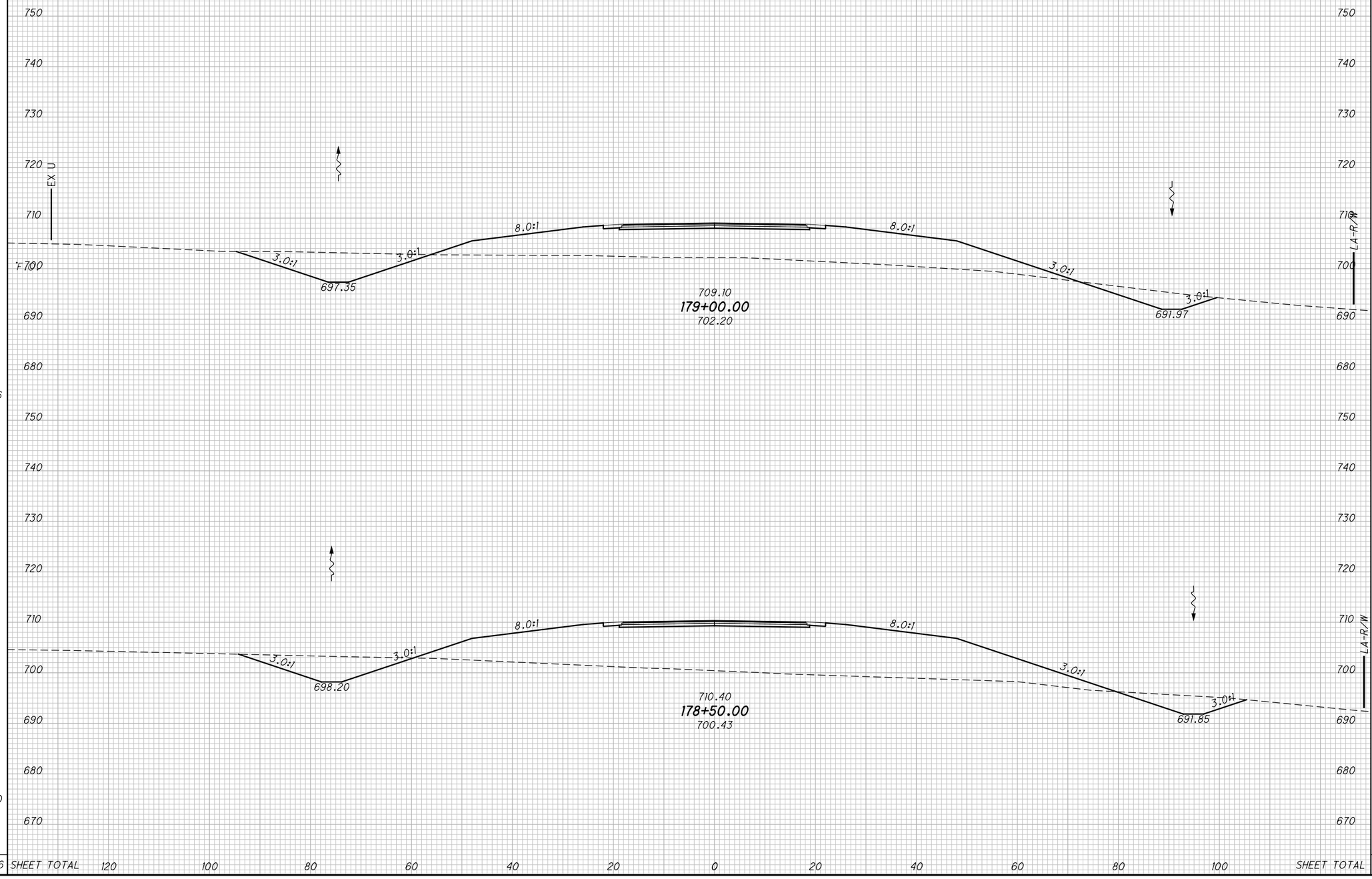
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 177+50.00 TO STA. 178+00.00

ROS-207-0.00

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:03 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
155	876	176	614	303	1444
161	920	152	945	352	1665
	1796			655	3109



CALCULATED MJL
CHECKED DMV

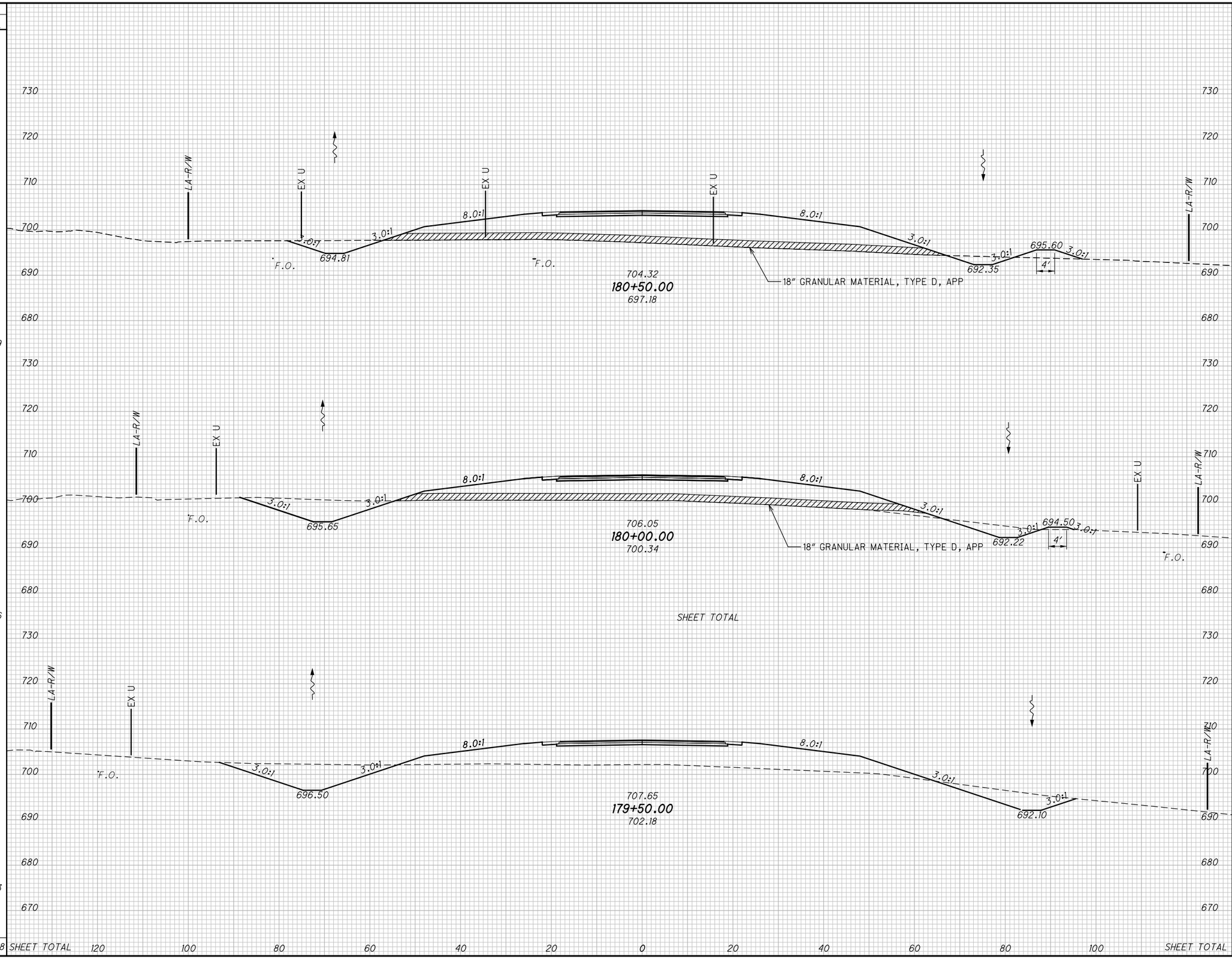
CROSS SECTIONS S.R. 207
STA. 178+50.00 TO STA. 179+00.00

ROS-207-0.00

132
332

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:03 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
124	729
138	796
149	843
	2368



END AREA	
CUT	FILL
53	457
125	296
188	440

VOLUME	
CUT	FILL
165	697
290	681
337	976
792	2354

CALCULATED MJL
CHECKED DMV

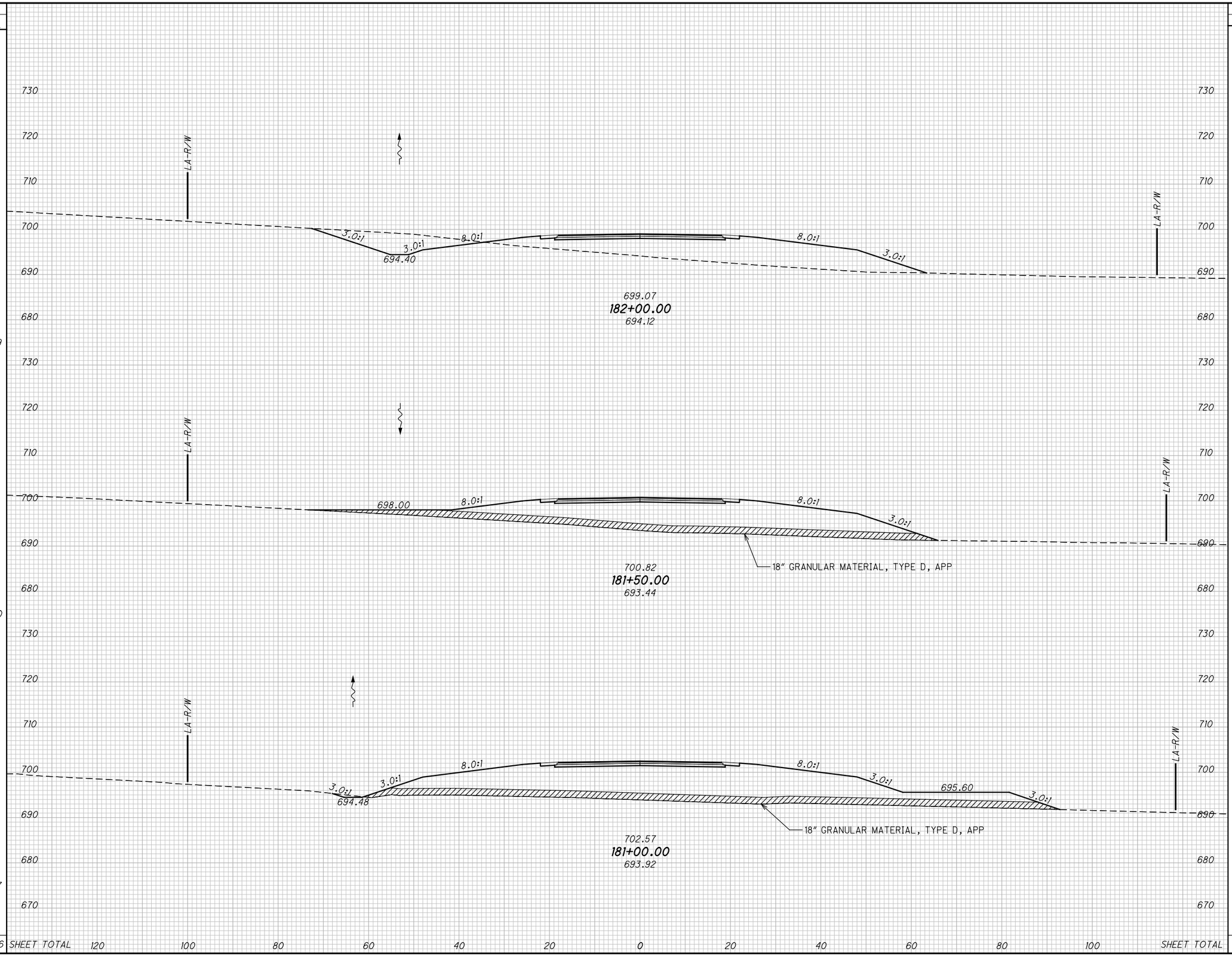
CROSS SECTIONS S.R. 207
STA. 179+50.00 TO STA. 180+50.00

ROS-207-0.00

133
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:04 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
94	529	95	365	88	705
96	500	0	396	2	937
84	577	2	616	51	993
1606 SHEET TOTAL				141	2635



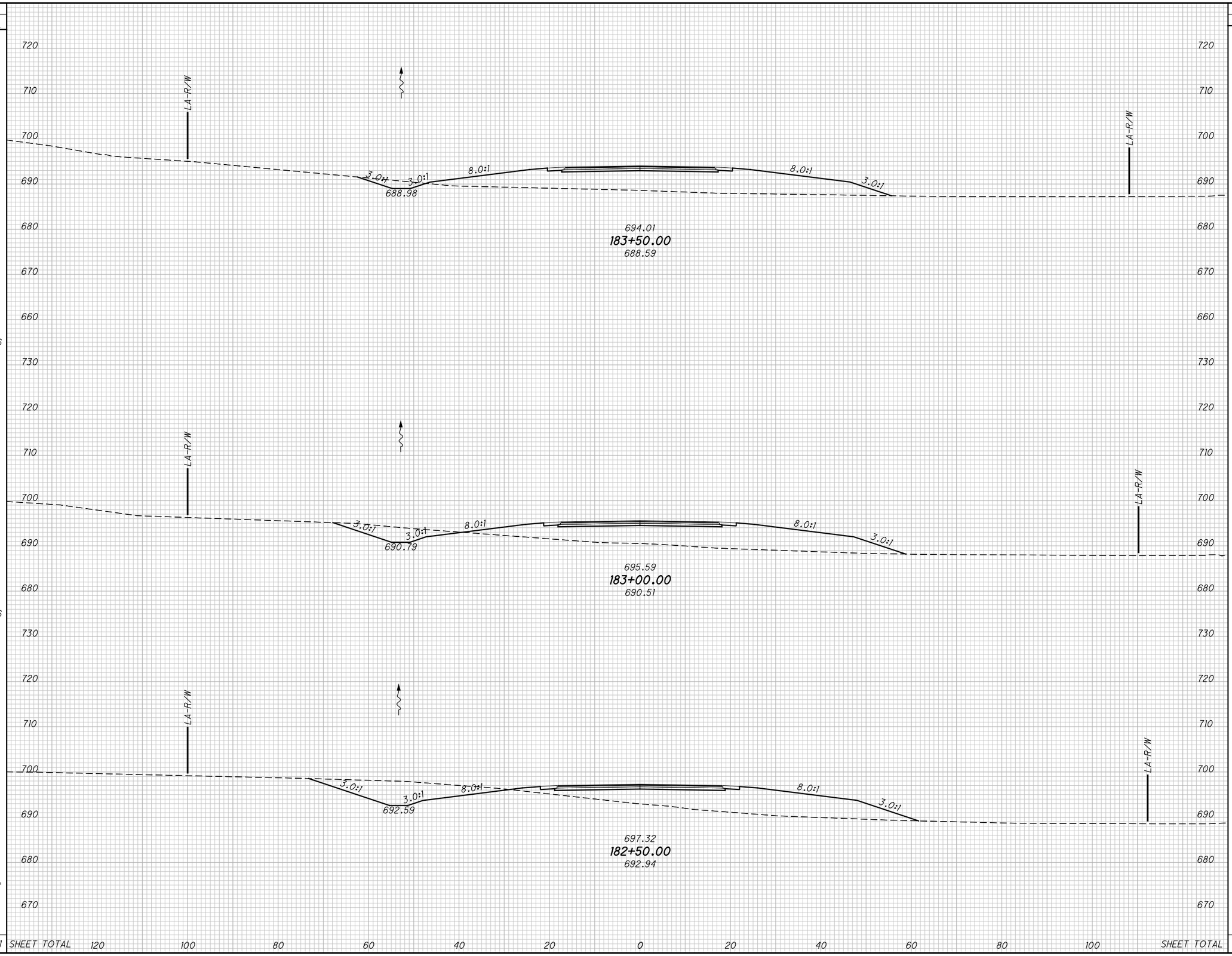
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 181+00.00 TO STA. 182+00.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:04 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
78	456	16	369	63	660
86	496	51	344	162	599
93	519	124	303	203	618
	1471			428	1877



CALCULATED MJL
CHECKED DMV

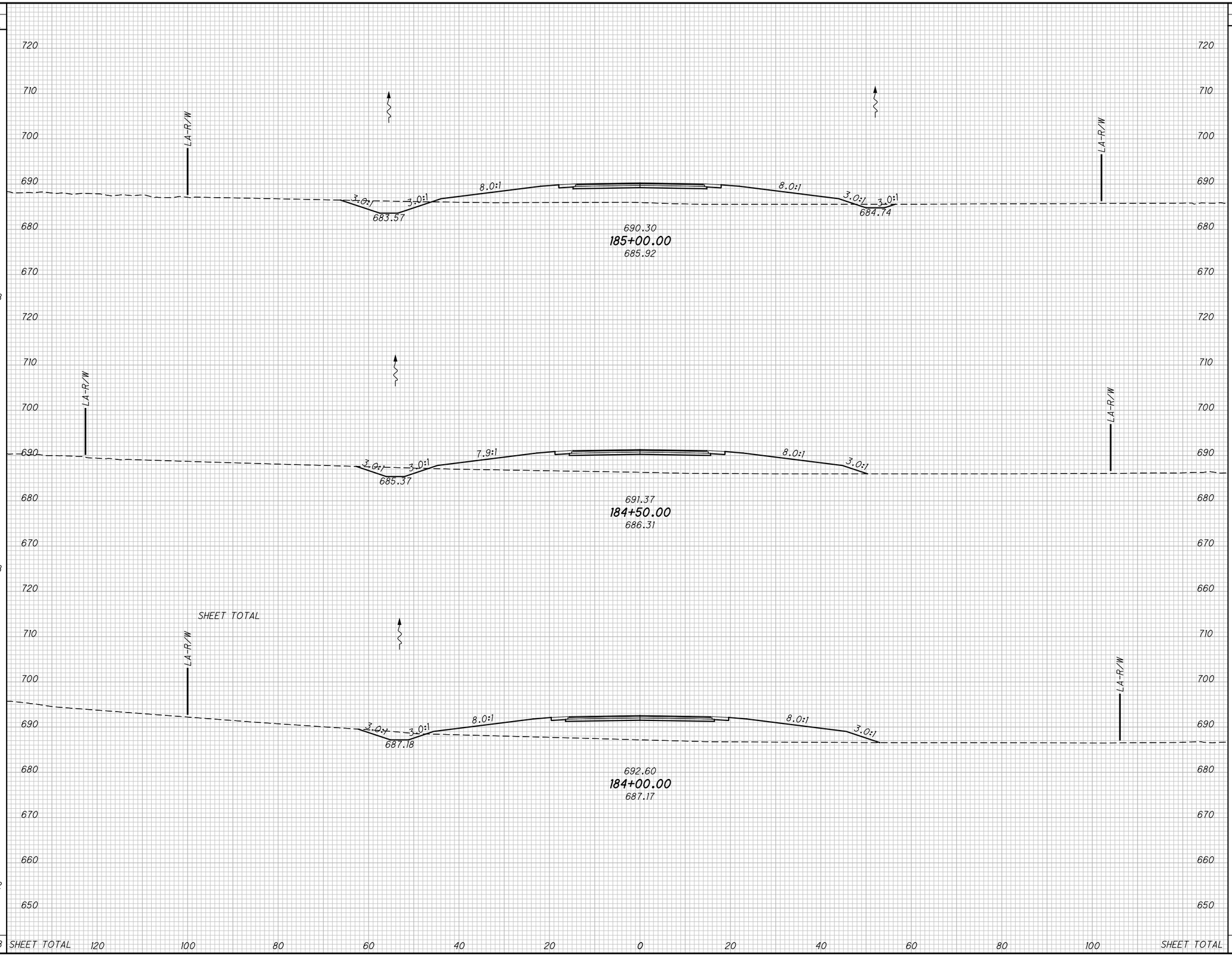
CROSS SECTIONS S.R. 207
STA. 182+50.00 TO STA. 183+50.00

ROS-207-0.00

135
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:05 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
88	
	458
77	
	428
77	
	432
	1318



END AREA	
CUT	FILL
38	259
20	308
16	346

VOLUME	
CUT	FILL
53	526
34	606
30	662
117	1794

CALCULATED MJL
CHECKED DMV

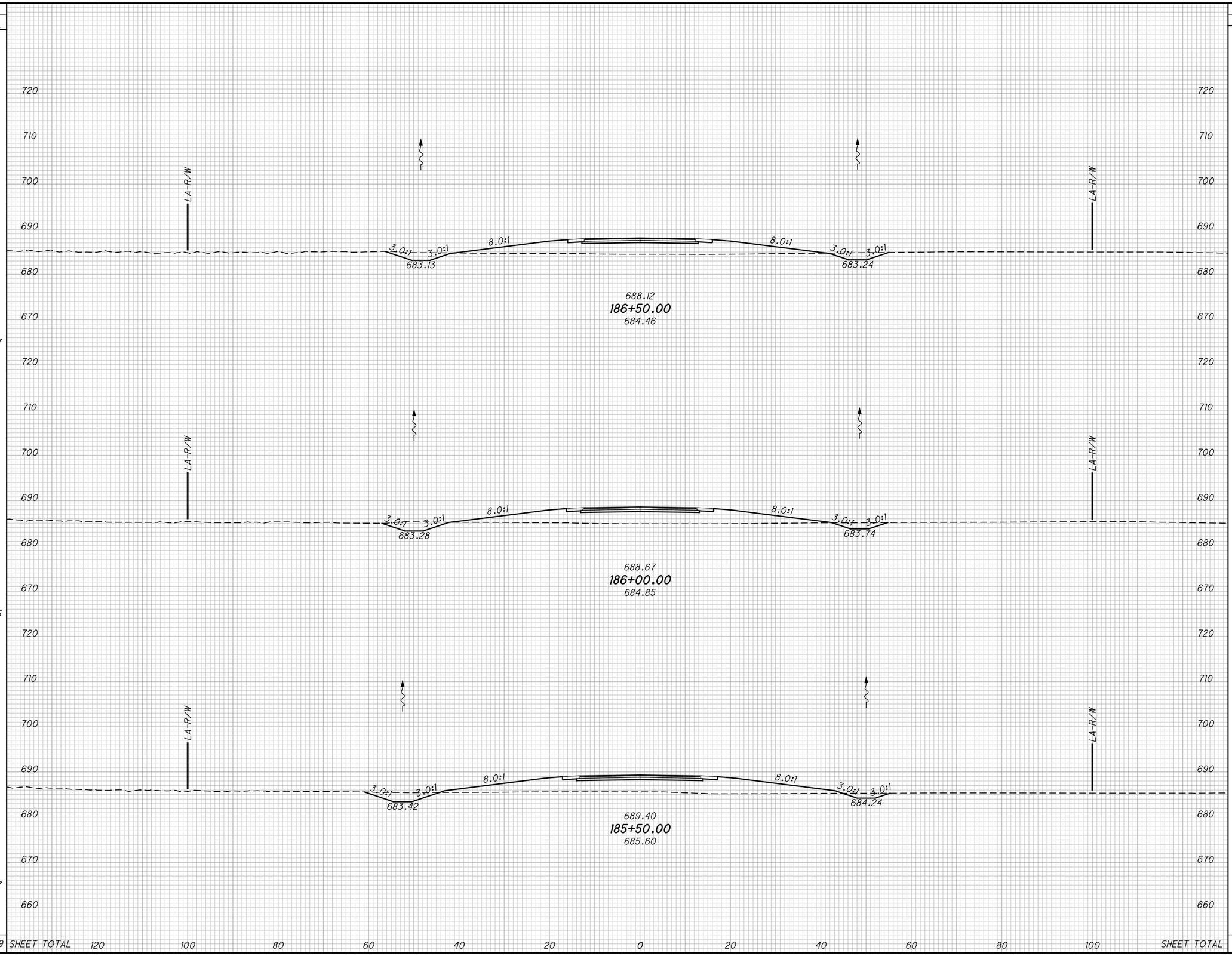
CROSS SECTIONS S.R. 207
STA. 184+00.00 TO STA. 185+00.00

ROS-207-0.00

136
332

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:05 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
81	447	29	163	55	312
80	455	30	174	55	349
83	477	29	203	61	428
	1379 SHEET TOTAL			171	1089 SHEET TOTAL



CALCULATED MJL
CHECKED DMV

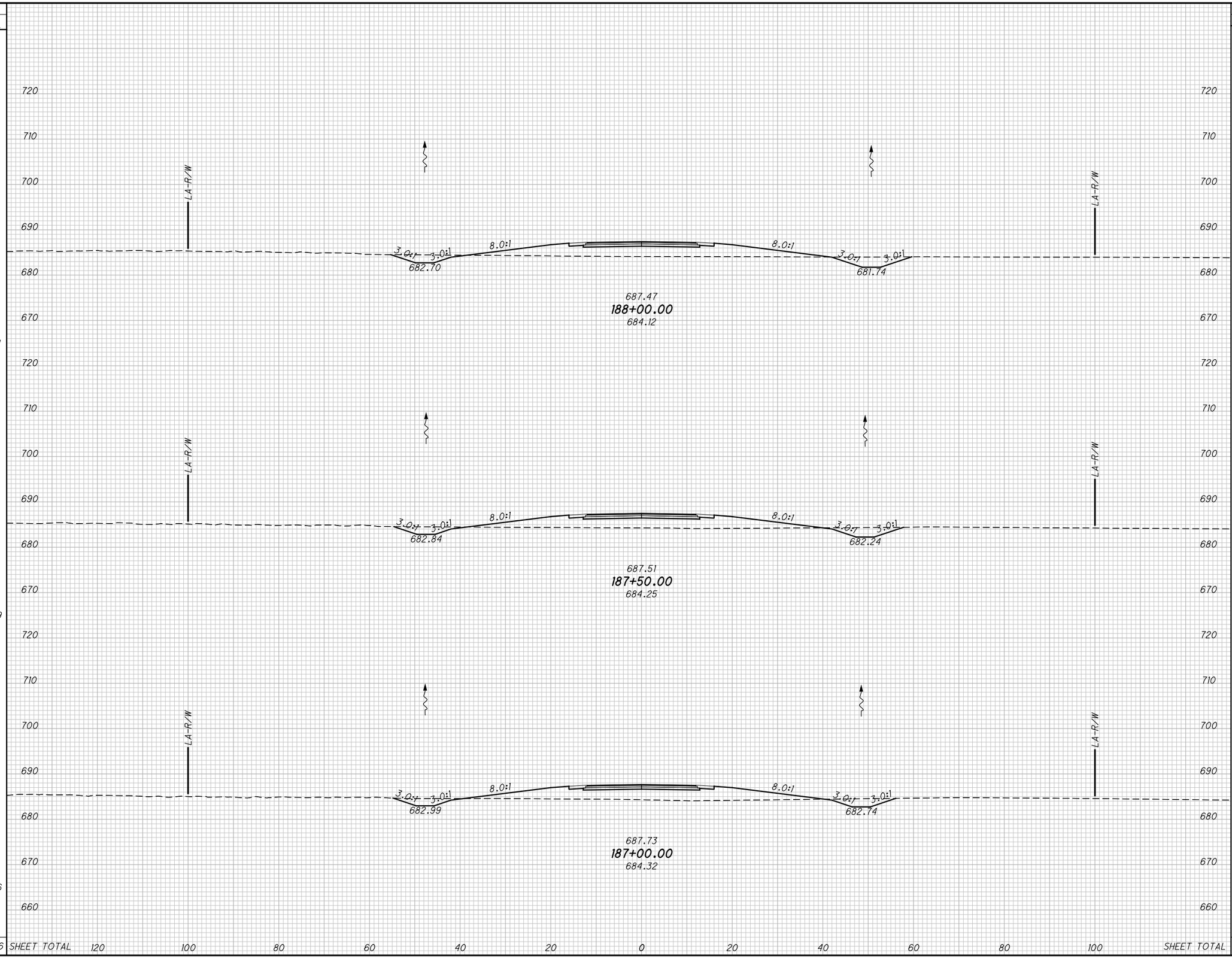
CROSS SECTIONS S.R. 207
STA. 185+50.00 TO STA. 186+50.00

ROS-207-0.00

137
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:06 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
84	461	187+50.00 to 188+00.00	42	144	73	260
82	449	187+00.00 to 187+50.00	37	138	63	264
80	446	186+50.00 to 187+00.00	31	147	56	287
	1356	SHEET TOTAL			192	811



CALCULATED MJL
CHECKED DMV

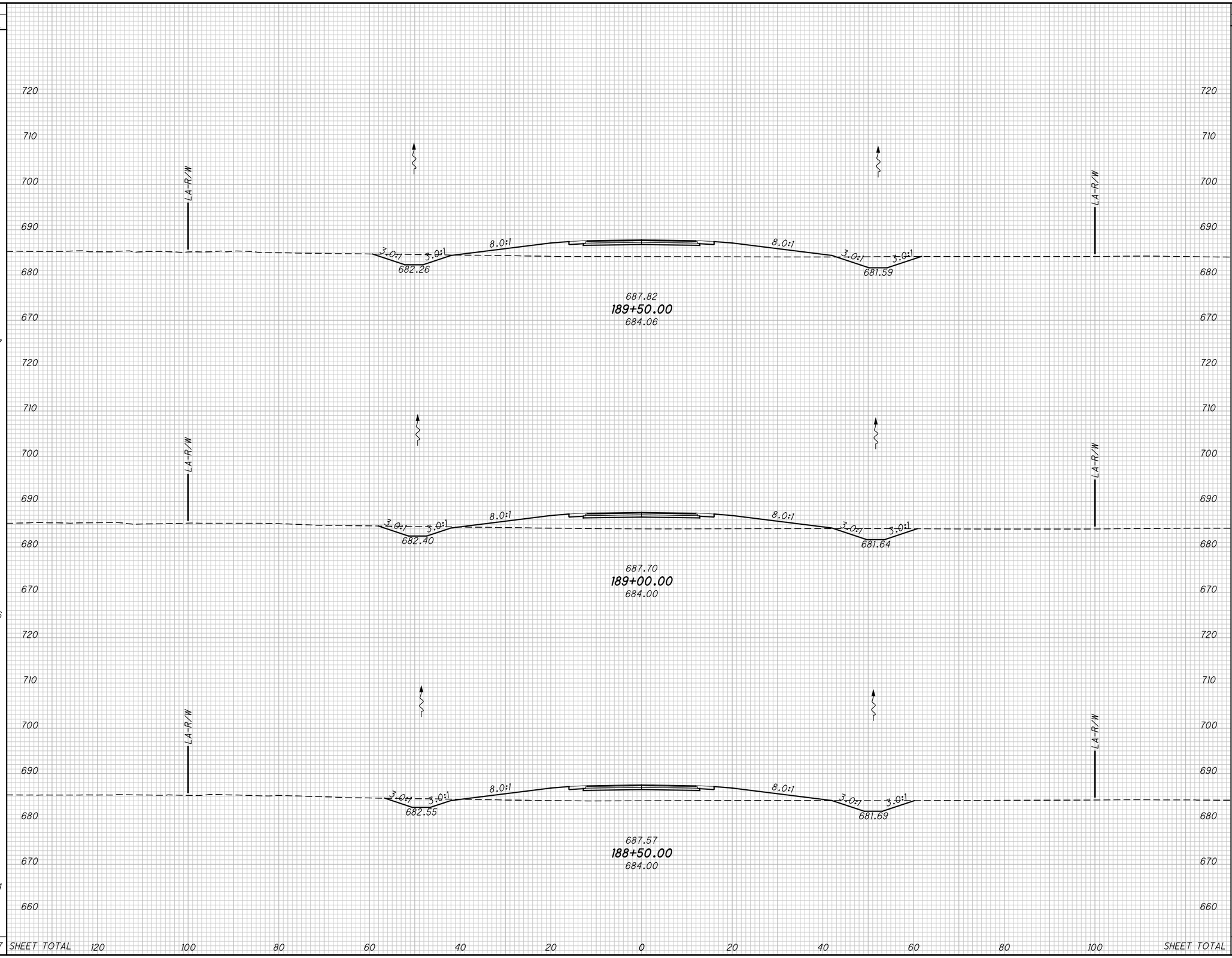
CROSS SECTIONS S.R. 207
STA. 187+00.00 TO STA. 188+00.00

ROS-207-0.00

138
332

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:06 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
91	497	53	177	94	319
88	486	49	168	87	303
86	474	45	159	80	281
	1457 SHEET TOTAL			261	903



CALCULATED MJL
CHECKED DMV

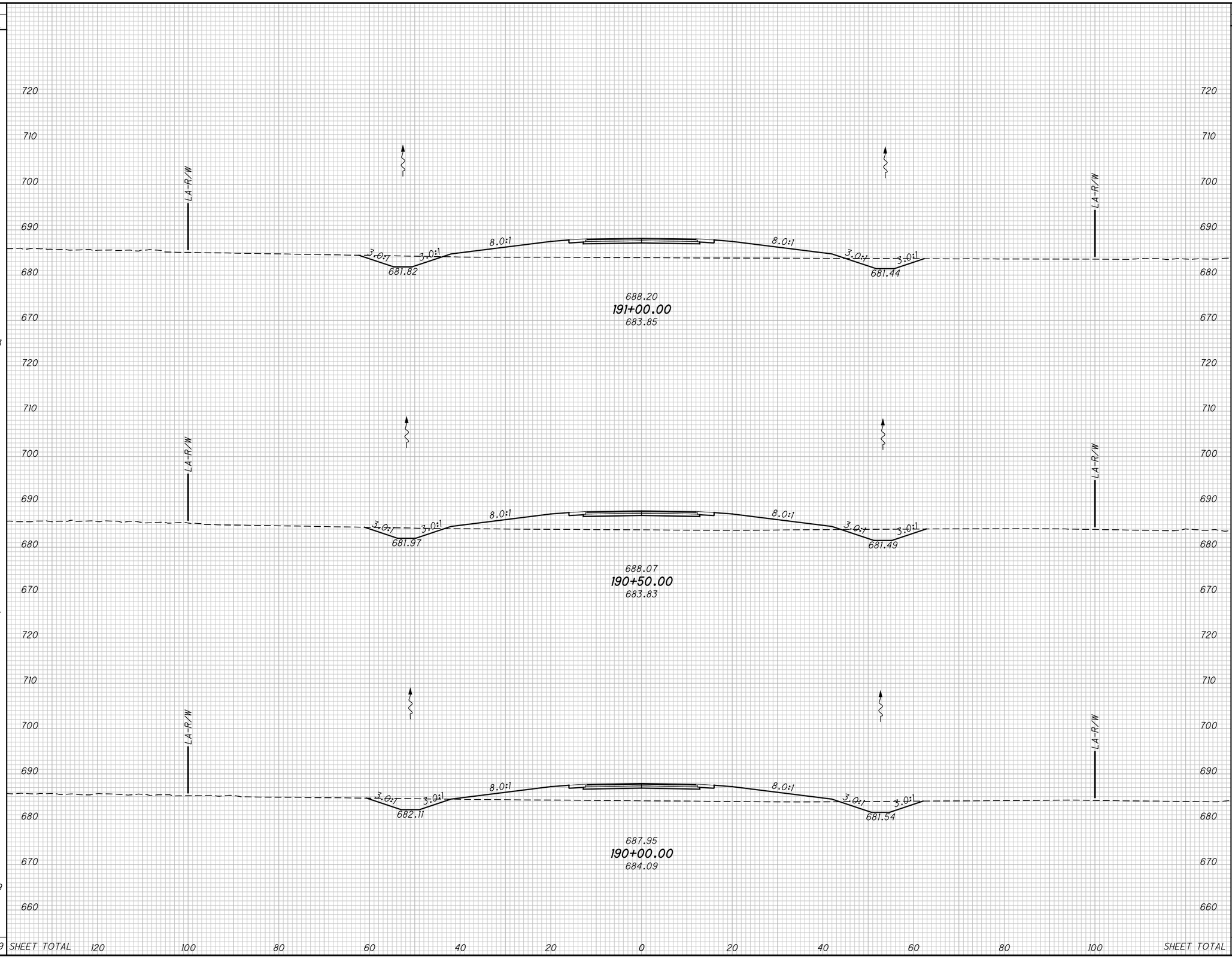
CROSS SECTIONS S.R. 207
STA. 188+50.00 TO STA. 189+50.00

ROS-207-0.00

139
332

c:\pwworking\east01\d0244753\i93744_XS001.dgn 5/2/2019 10:09:07 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
95	523	51	233	96	418
94	517	53	219	99	378
93	509	54	190	99	340
	1549			294	1136



CALCULATED MJL
CHECKED DMV

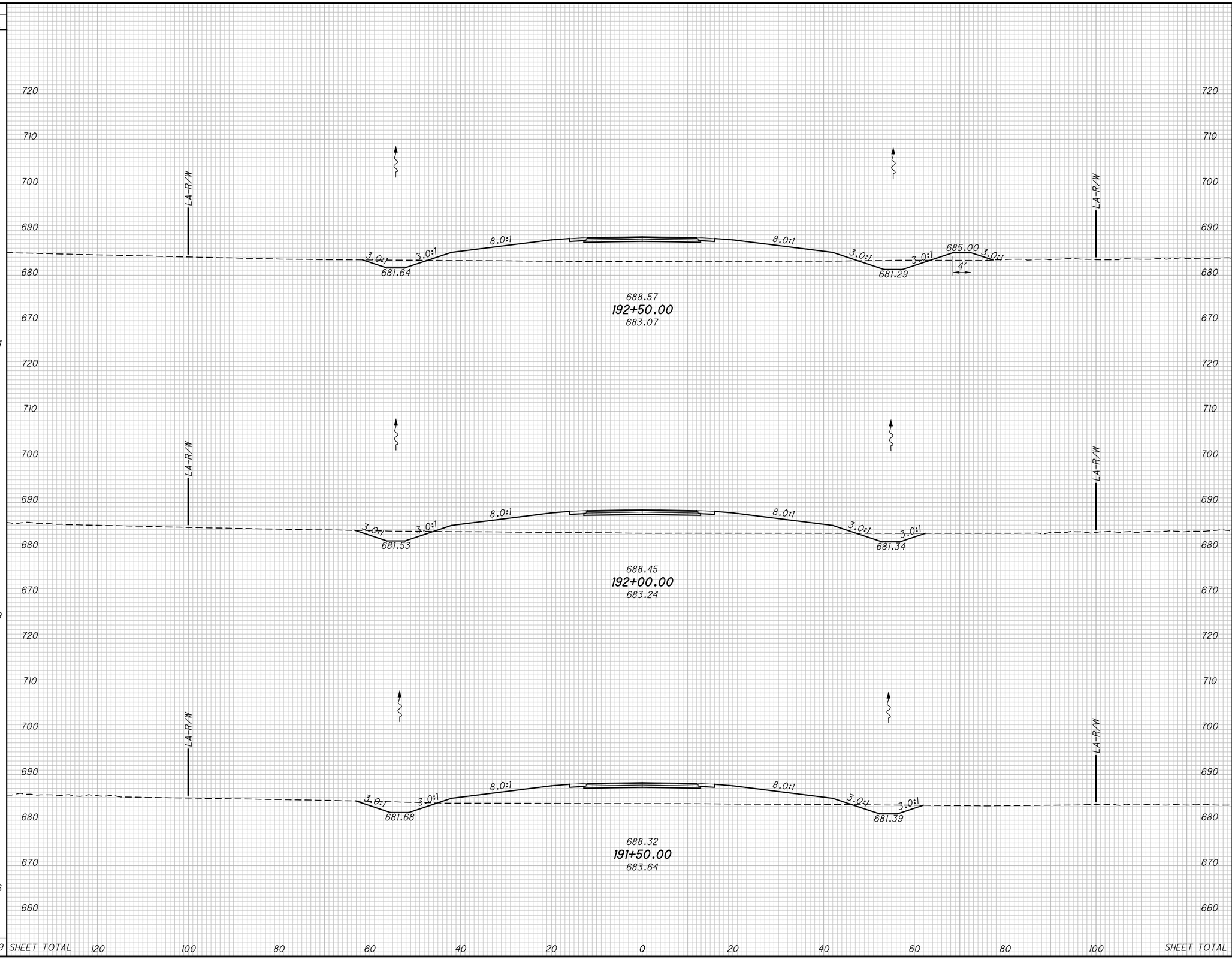
CROSS SECTIONS S.R. 207
STA. 190+00.00 TO STA. 191+00.00

ROS-207-0.00

140
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:07 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
100	544	36	348	70	603
96	529	40	303	79	526
95	526	45	264	88	460
	1599 SHEET TOTAL			237	1589



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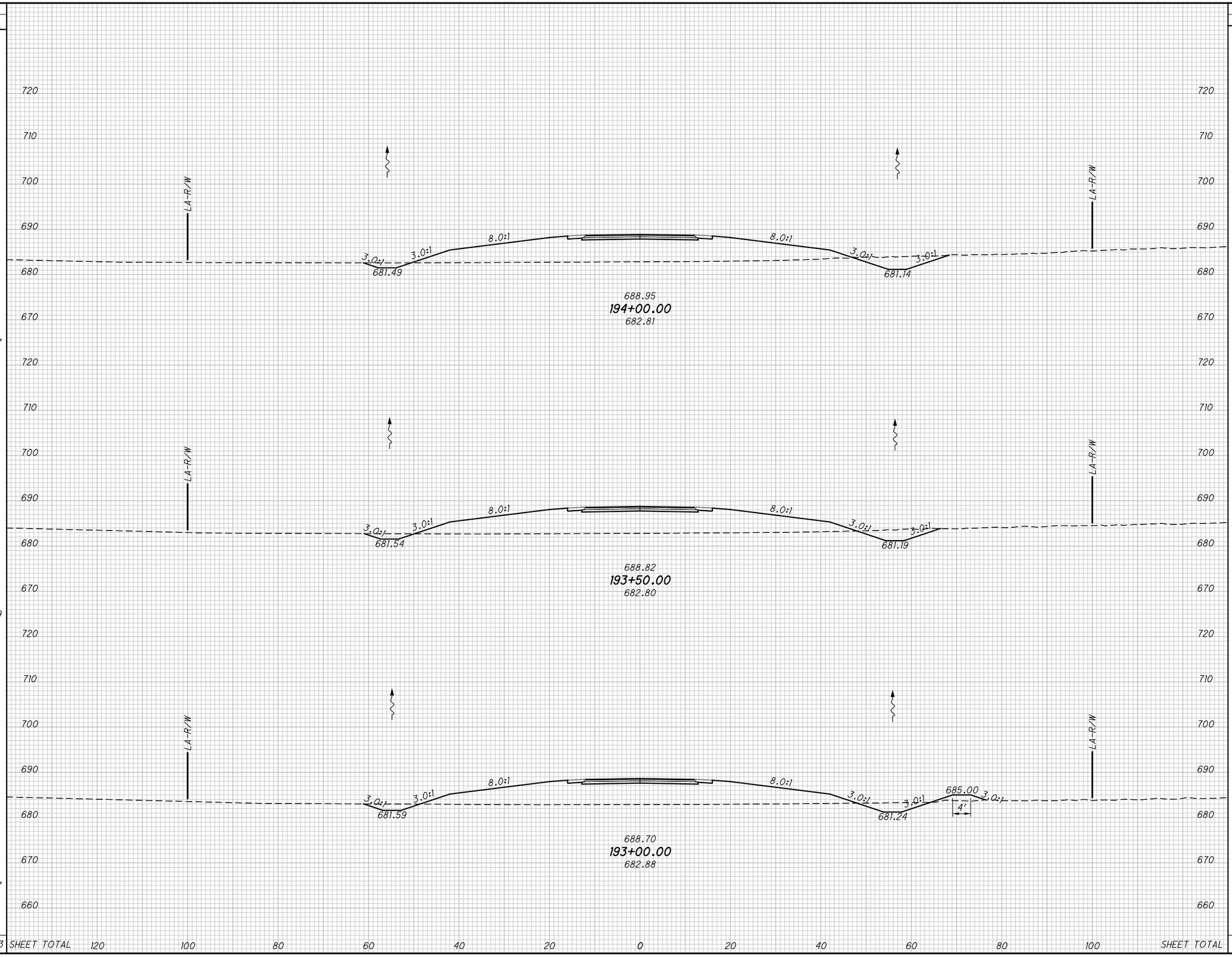
CALCULATED MJL CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 191+50.00 TO STA. 192+50.00

ROS-207-0.00

141
332

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	MJL	DMV
100	547	43	392	73	719		
97	549	36	384	63	702		
100	557	32	374	63	668		
1653	SHEET TOTAL			199	2089		



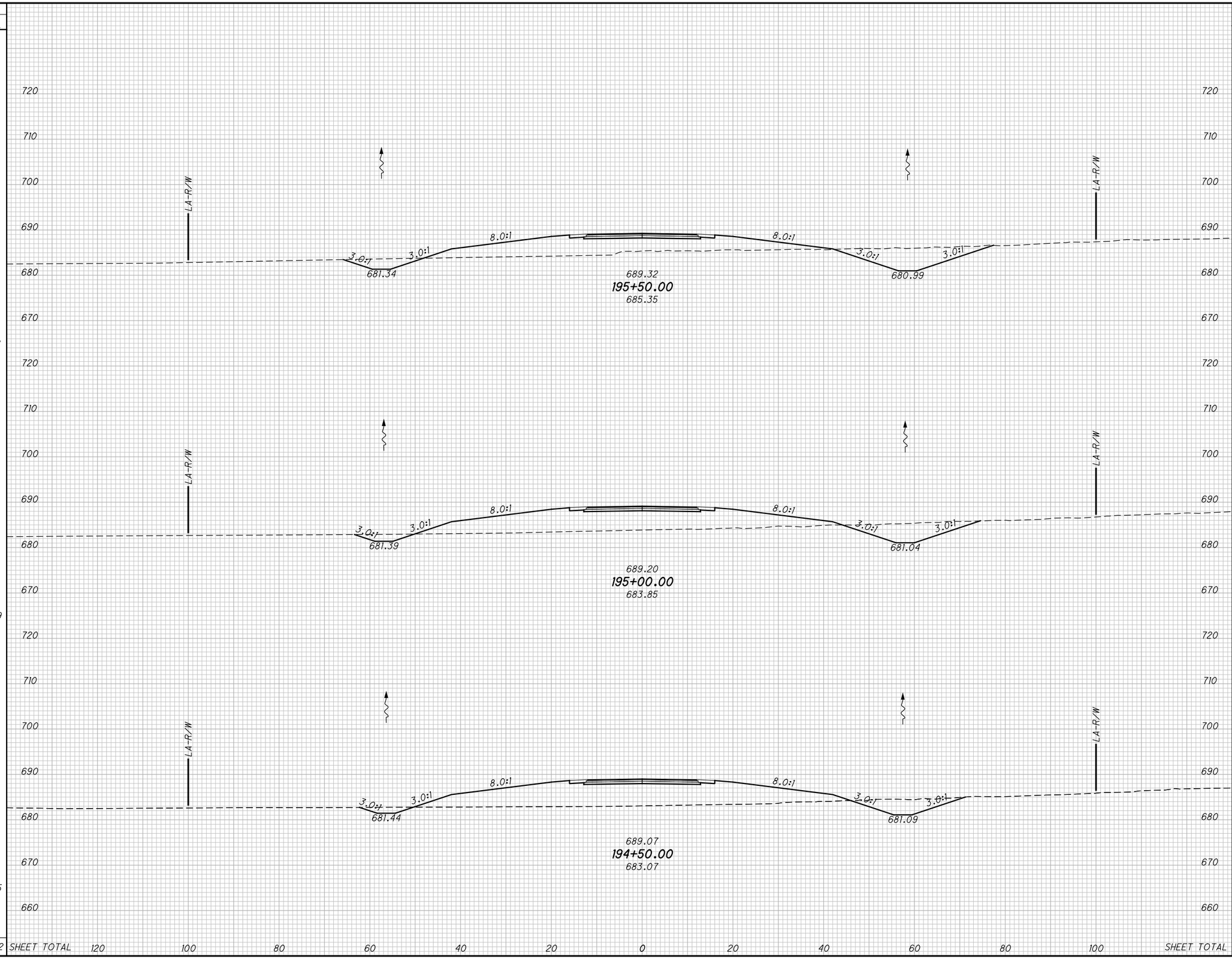
CROSS SECTIONS S.R. 207
STA. 193+00.00 TO STA. 194+00.00

ROS-207-0.00

142
332

c:\pwworking\eost01\d0244753\93744_XS001.dgn 5/2/2019 10:09:08 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
114	618
108	589
104	565
	1772



END AREA	
CUT	FILL
122	240
86	324
60	372

VOLUME	
CUT	FILL
193	522
136	645
96	708
425	1875

CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 194+50.00 TO STA. 195+50.00

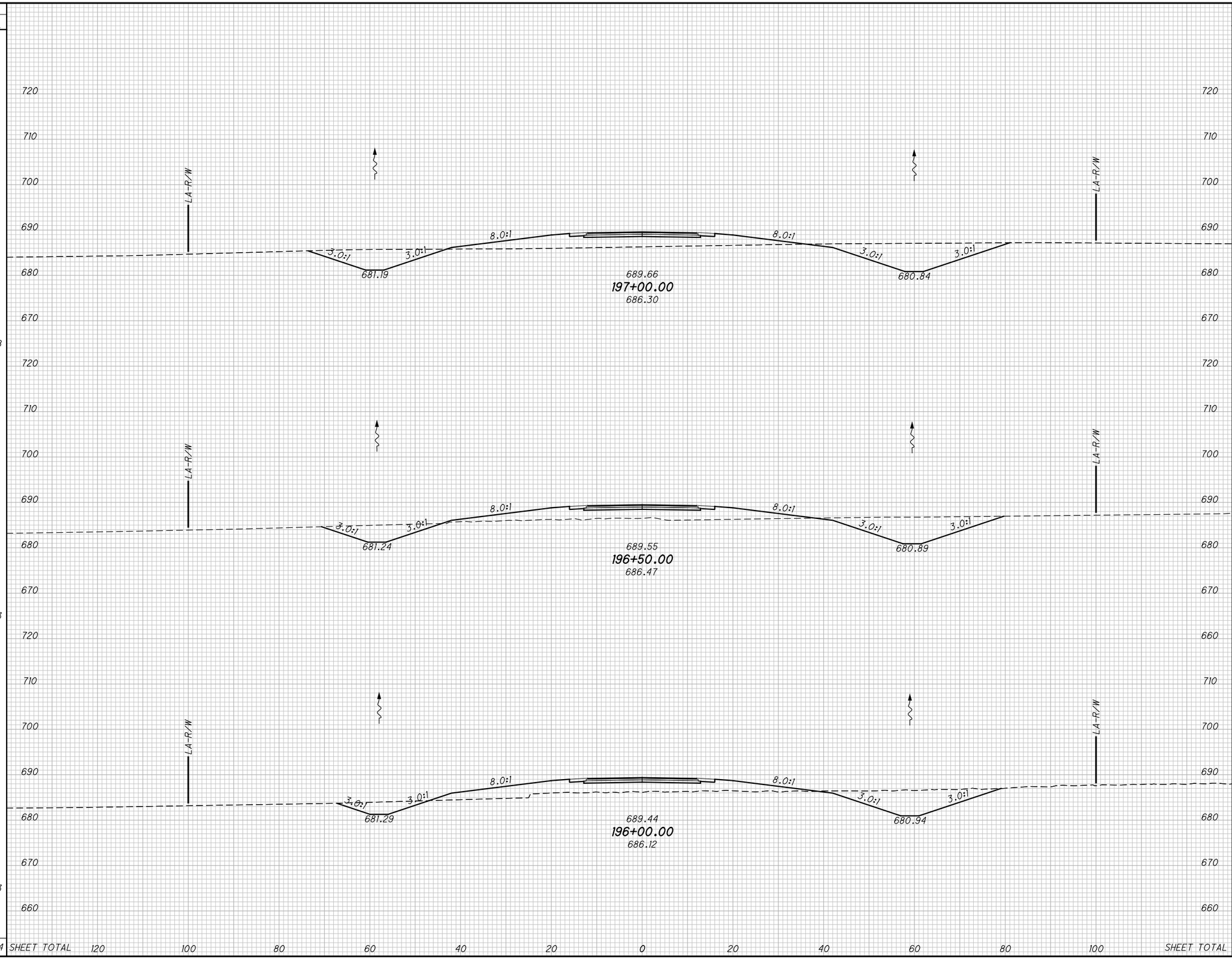
ROS-207-0.00

143
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:09 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
126	688	221	148	376	271
121	663	185	145	313	287
117	643	153	165	255	375
	1994			944	933

CALCULATED MJL
CHECKED DMV



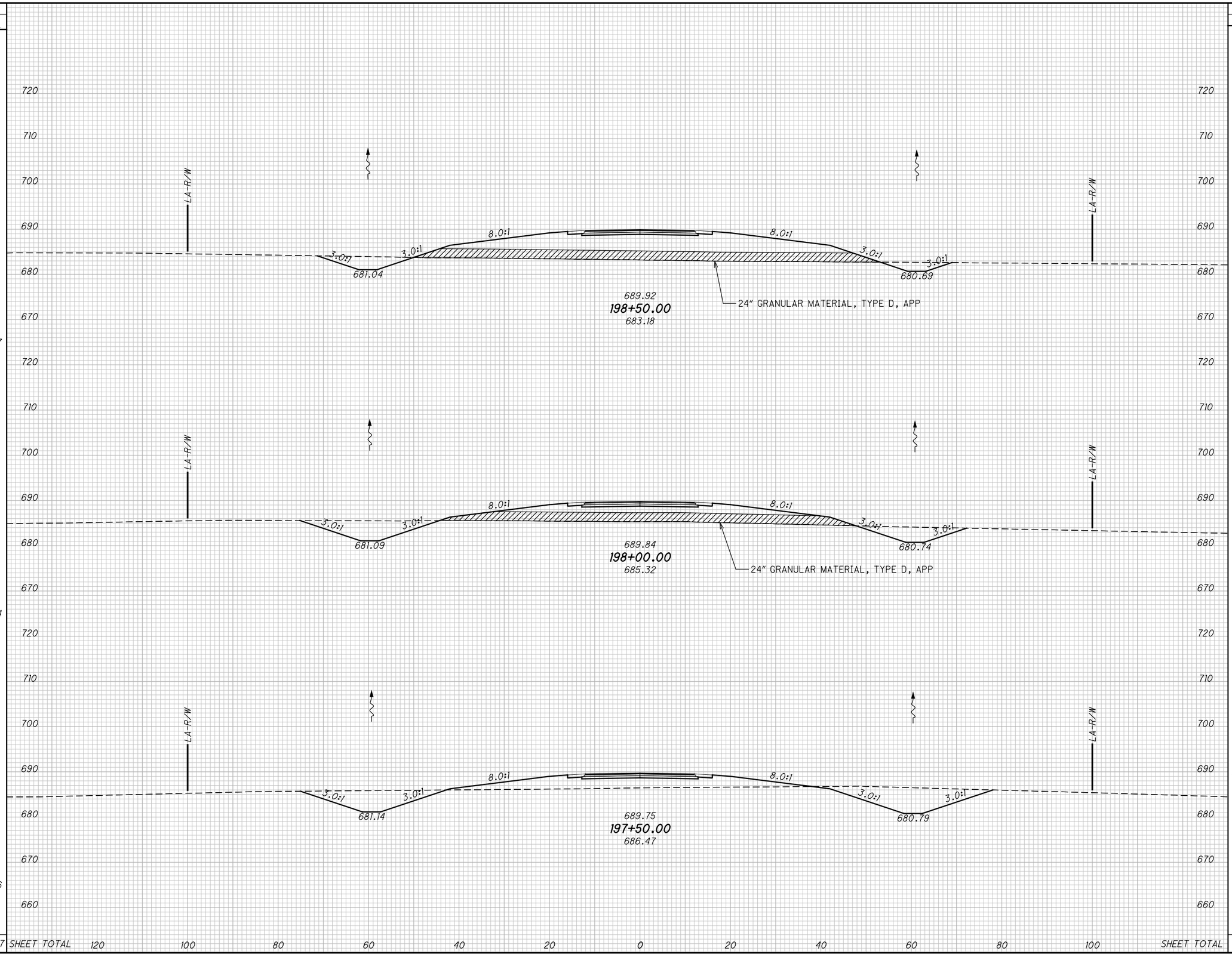
CROSS SECTIONS S.R. 207
STA. 196+00.00 TO STA. 197+00.00

ROS-207-0.00

144
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:09 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
111	637	56	267	168	331
118	674	125	90	306	219
124	696	206	147	395	274
	2007 SHEET TOTAL			869	824



CALCULATED MJL
CHECKED DMV

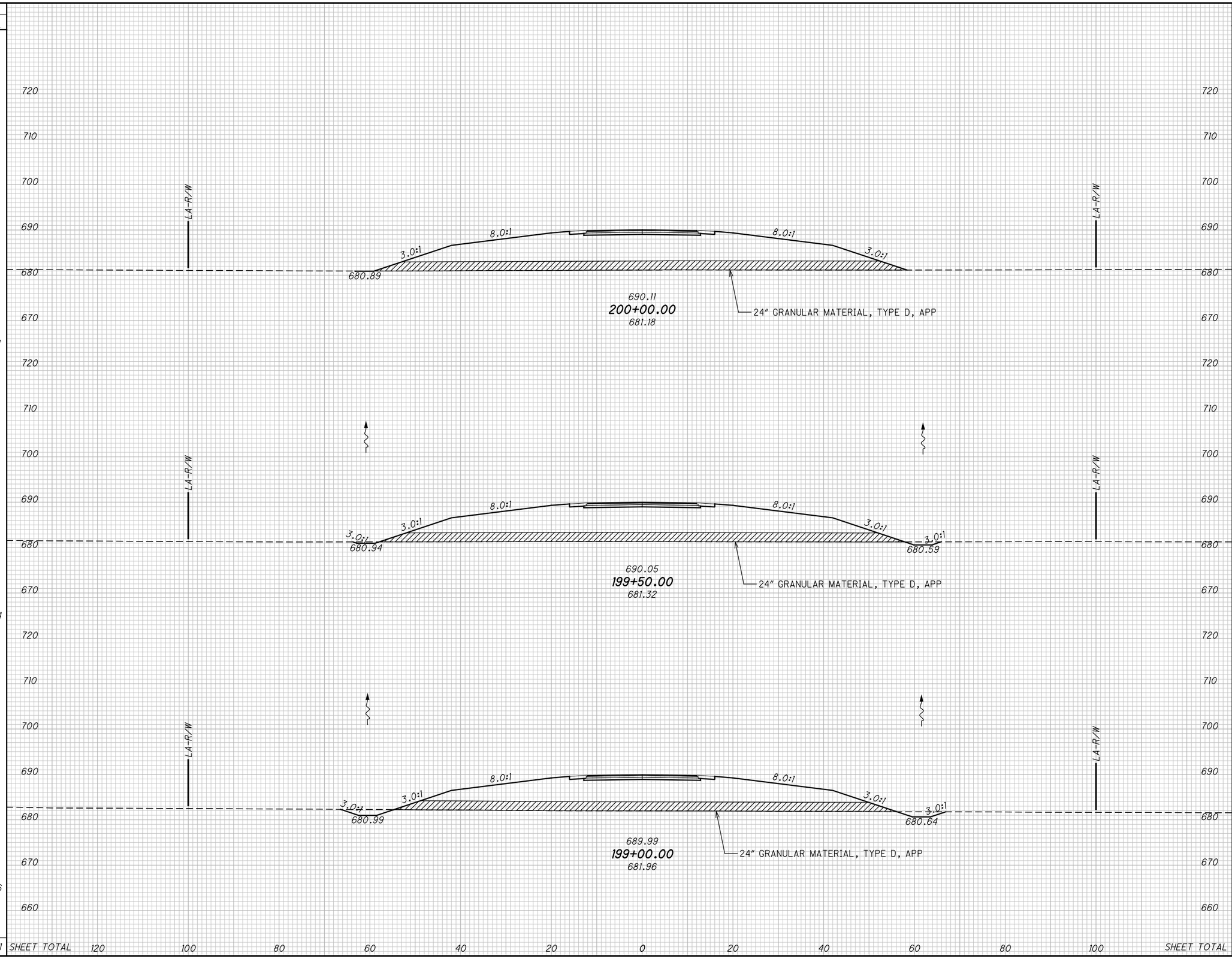
CROSS SECTIONS S.R. 207
STA. 197+50.00 TO STA. 198+50.00

ROS-207-0.00

145
332

c:\pwworking\east01\d0244753\D3744_XS001.dgn 5/2/2019 10:09:10 AM MLORENZ

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	MJL	DMV
91	531	0	488	5	882		
100	564	5	465	22	791		
104	596	18	389	69	607		
	1691			96	2280		

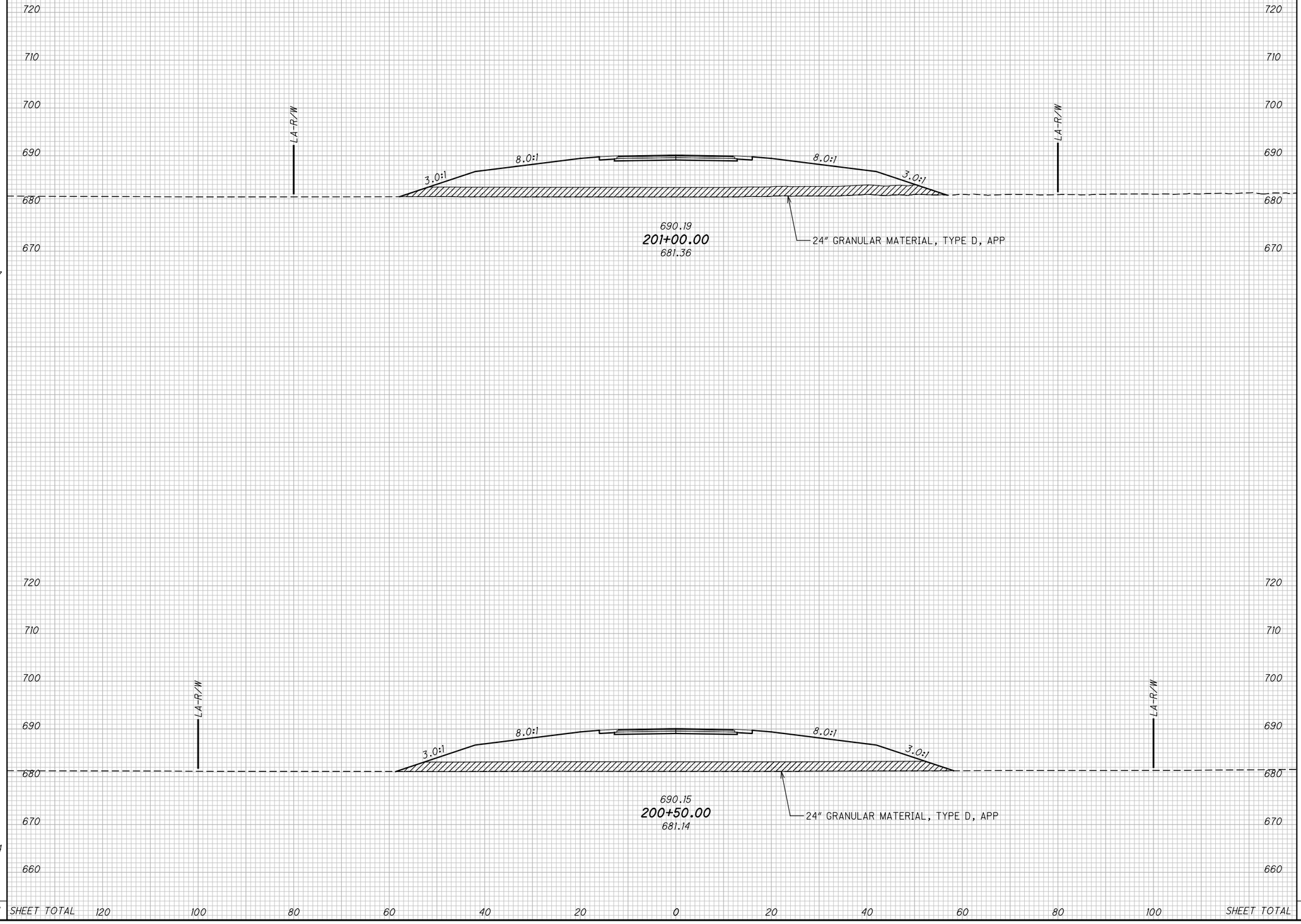


CROSS SECTIONS S.R. 207
STA. 199+00.00 TO STA. 200+00.00

ROS-207-0.00

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
84	237	0	461	0	880
87	494	0	489	0	905
	731			0	1785



CALCULATED MJL
CHECKED DMV

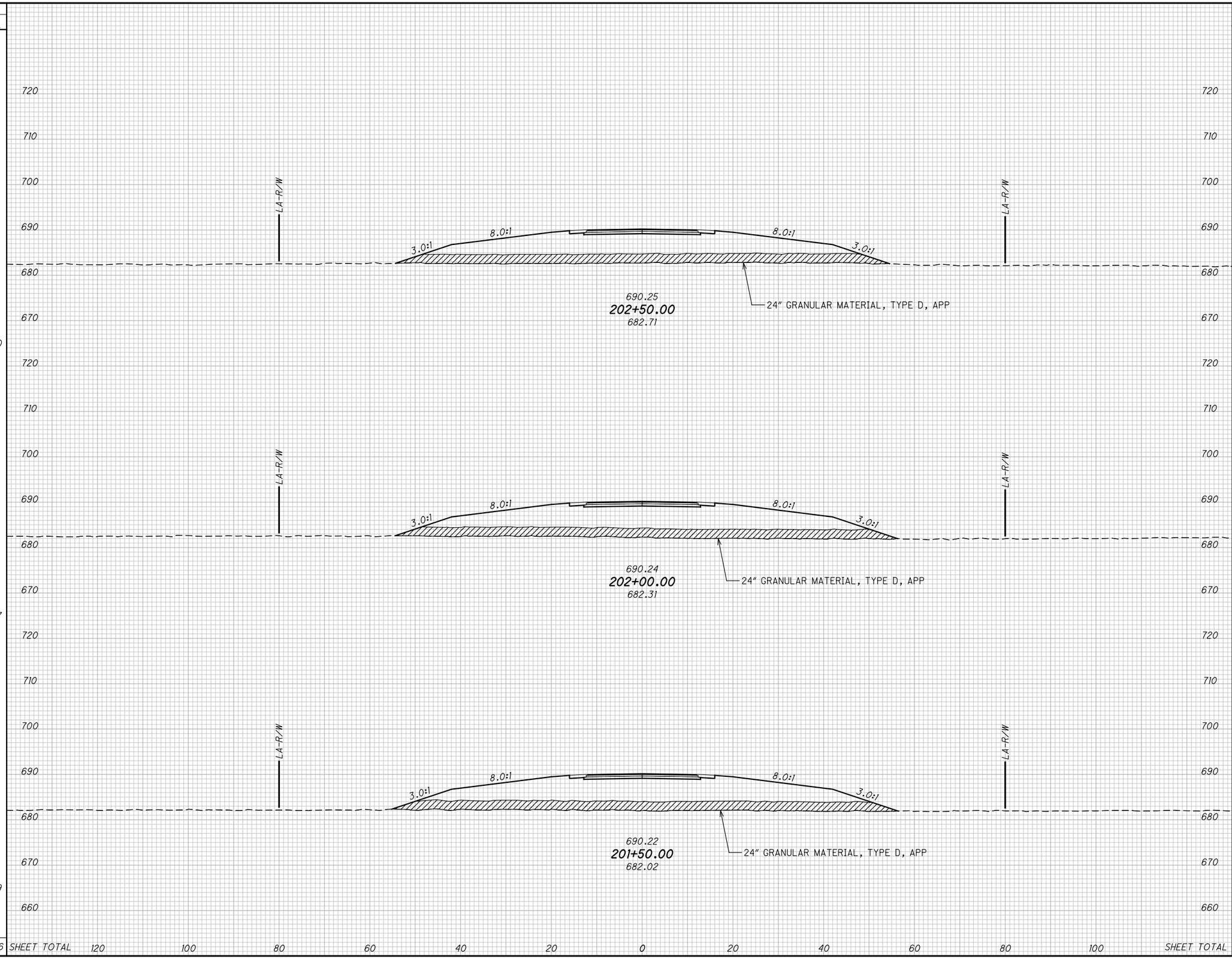
CROSS SECTIONS S.R. 207
STA. 200+50.00 TO STA. 201+00.00

ROS-207-0.00

147
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:11 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
78	440
80	447
81	459
	1346



END AREA	
CUT	FILL
0	345
0	389
0	400

VOLUME	
CUT	FILL
0	680
0	731
0	797
0	2208

CALCULATED MJL
CHECKED DMV

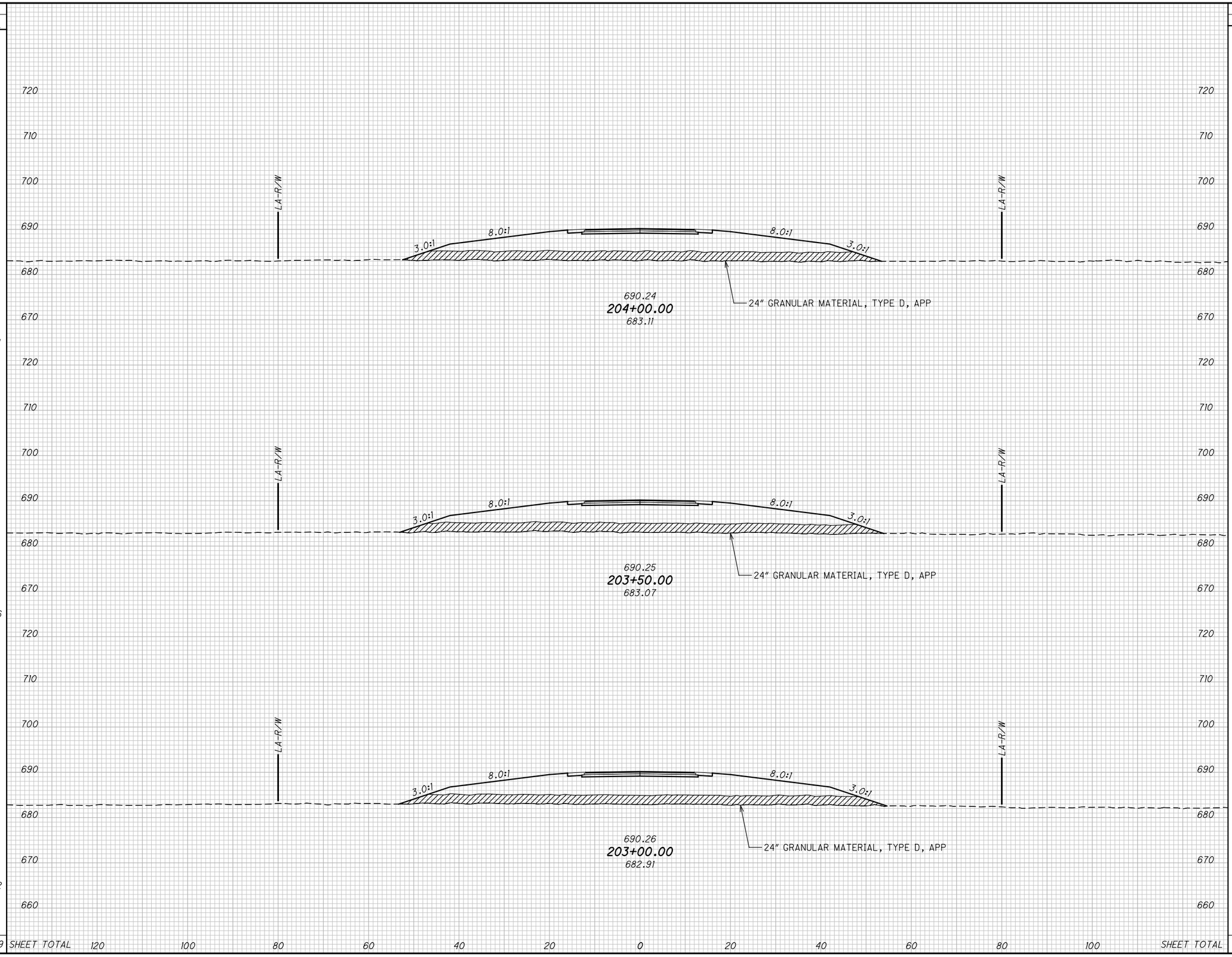
CROSS SECTIONS S.R. 207
STA. 201+50.00 TO STA. 202+50.00

ROS-207-0.00

148
332

c:\pwworking\east01\d0244753\D93744_XS001.dgn 5/2/2019 10:09:11 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
75	421	0	306	0	572
76	426	0	312	0	585
70	432	0	320	0	616
	1279 SHEET TOTAL			0	1773 SHEET TOTAL



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 203+00.00 TO STA. 204+00.00

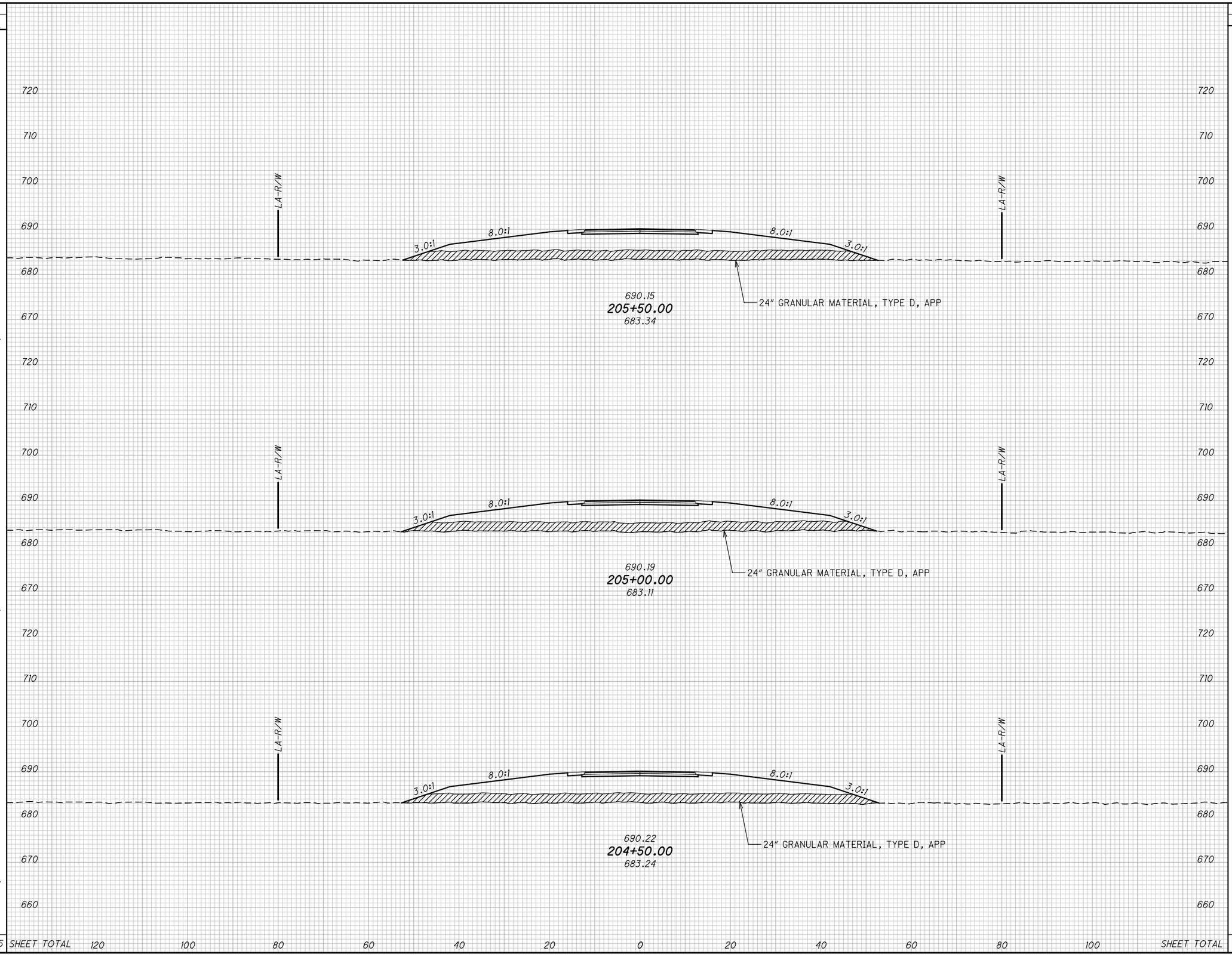
ROS-207-0.00

149
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:12 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
74	413	0	281	0	526
74	415	0	287	0	540
75	417	0	296	0	557
	1245			0	1623

CALCULATED MJL
CHECKED DMV



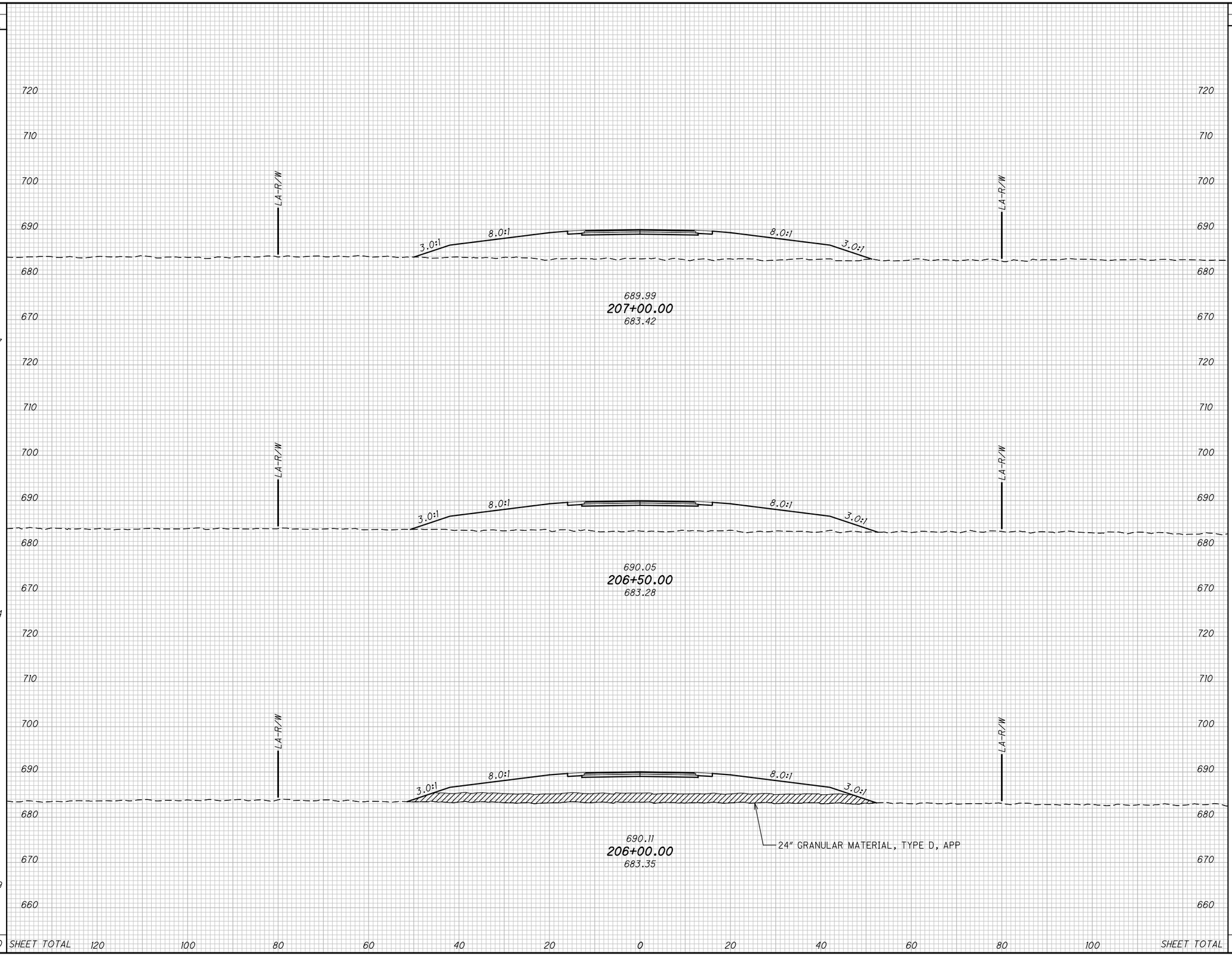
CROSS SECTIONS S.R. 207
STA. 204+50.00 TO STA. 205+50.00

ROS-207-0.00

150
332

c:\pwworking\east01\d0244753\i93744_XS001.dgn 5/2/2019 10:09:12 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
70	397	0	443	0	839
72	404	0	463	0	688
73	409	0	280	0	519
	1210			0	2046



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 206+00.00 TO STA. 207+00.00

ROS-207-0.00

151
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:13 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	CROSS SECTION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
68	379	689.77 208+50.00 684.02	0	388	0	722
68	380	689.85 208+00.00 683.84	0	392	0	746
69	386	689.92 207+50.00 683.29	0	414	0	793
	1145	SHEET TOTAL			0	2261

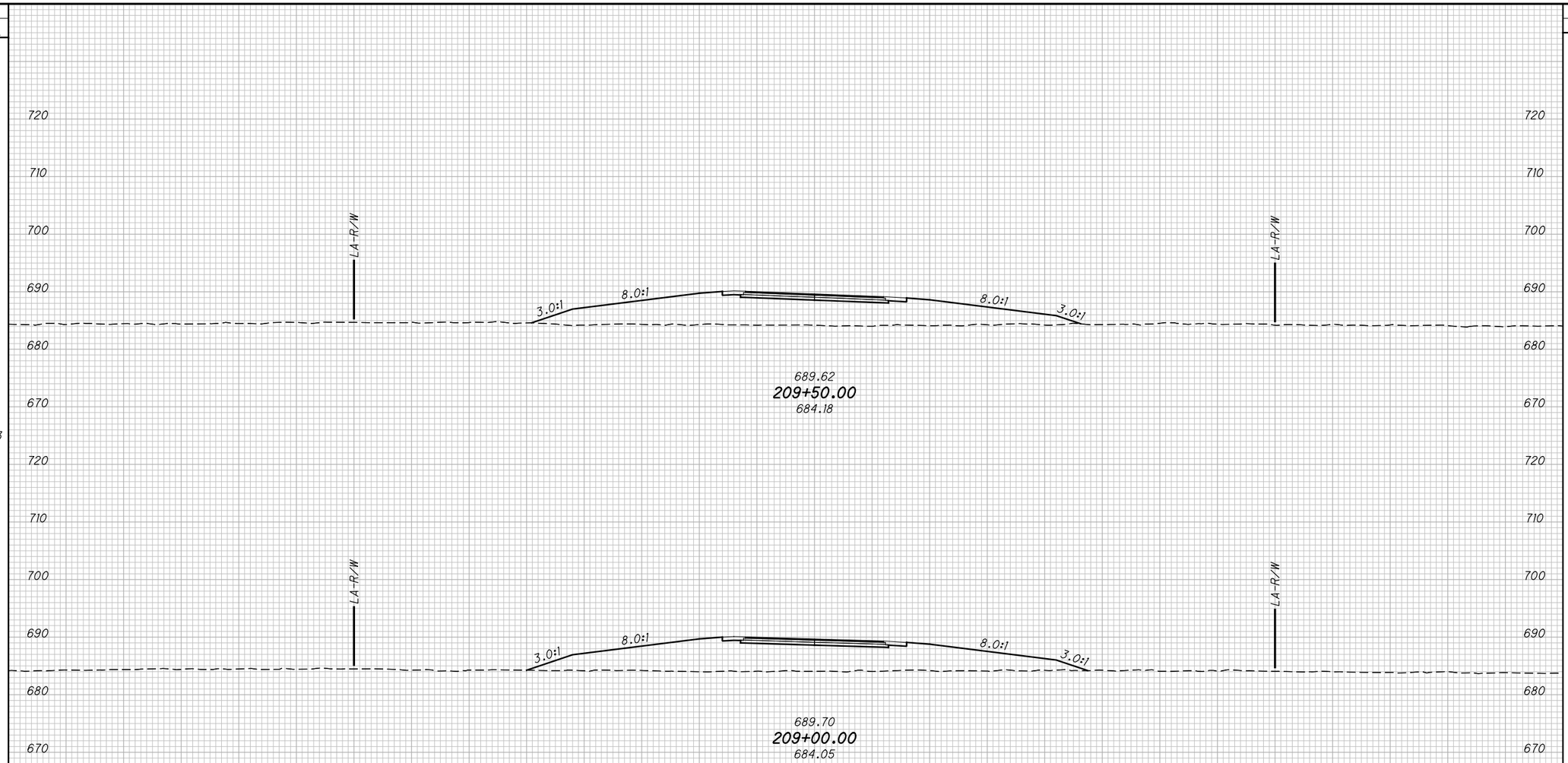
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 207+50.00 TO STA. 208+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:13 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
64	363	0	351	0	665
66	375	0	368	0	700
	738 SHEET TOTAL			0	1365



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 209+00.00 TO STA. 209+50.00

ROS-207-0.00

153
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:14 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
62	346	689.40 211+00.00 684.65	0	293	0	559
63	747	689.47 210+50.00 684.43	0	311	0	673
206	751	689.55 210+00.00 684.28	0	416	0	710
	1844	SHEET TOTAL			0	1942

720 710 700 690 680 670 660

3.0:1 8.0:1 8.0:1 3.0:1

LA-R/W

SEE FIELD DRIVE PROFILE, SHEET 232

SEE FIELD DRIVE PROFILE, SHEET 232

LA-R/W

TMP

120 100 80 60 40 20 0 20 40 60 80 100

SHEET TOTAL

CALCULATED MJL

CHECKED DMV

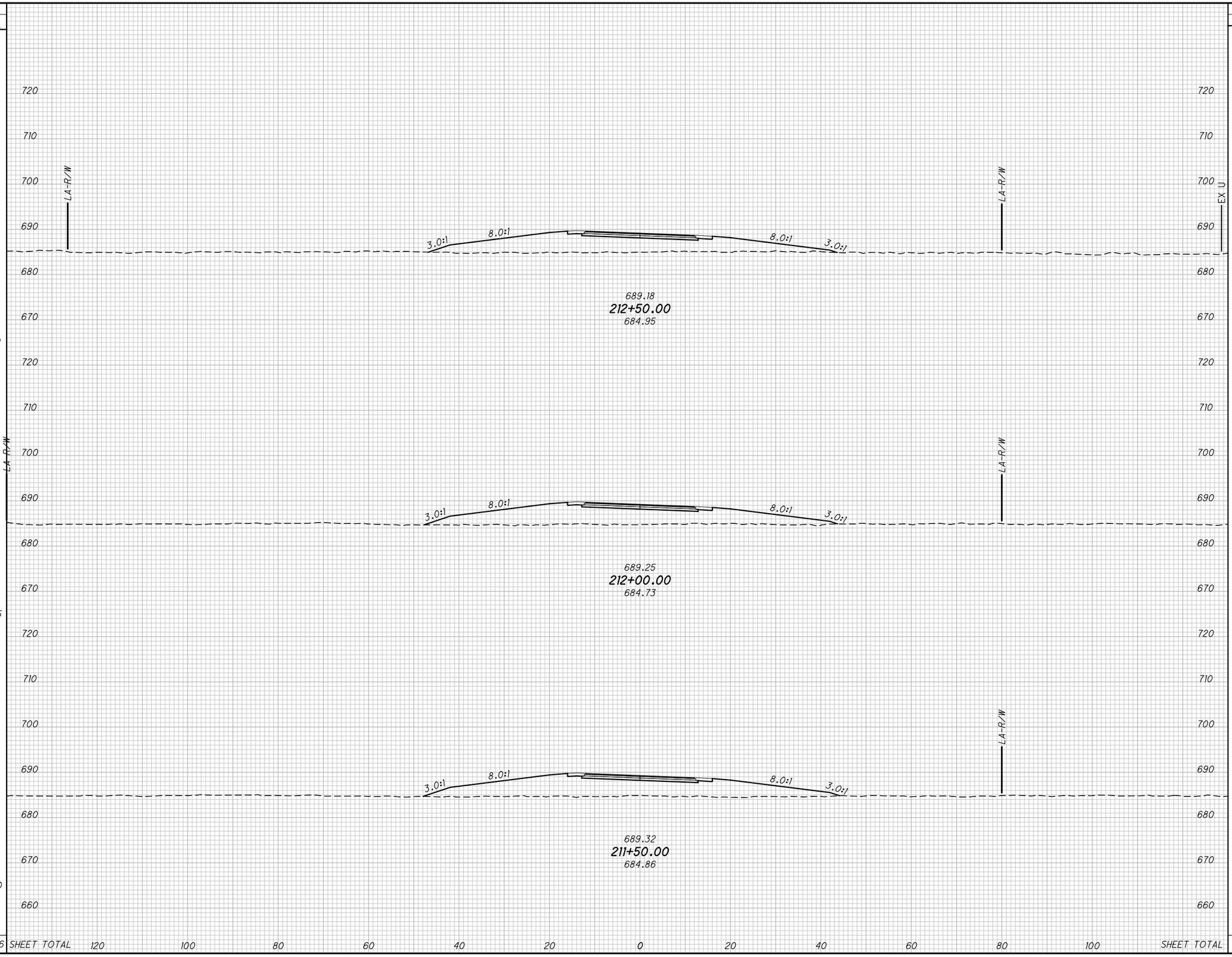
CROSS SECTIONS S.R. 207
STA. 210+00.00 TO STA. 211+00.00

ROS-207-0.00

154
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:14 AM MLORENZ

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	MJL	DMV
59	331	0	244	0	472		
60	335	0	265	0	508		
61	340	0	284	0	534		
	1006			0	1514		

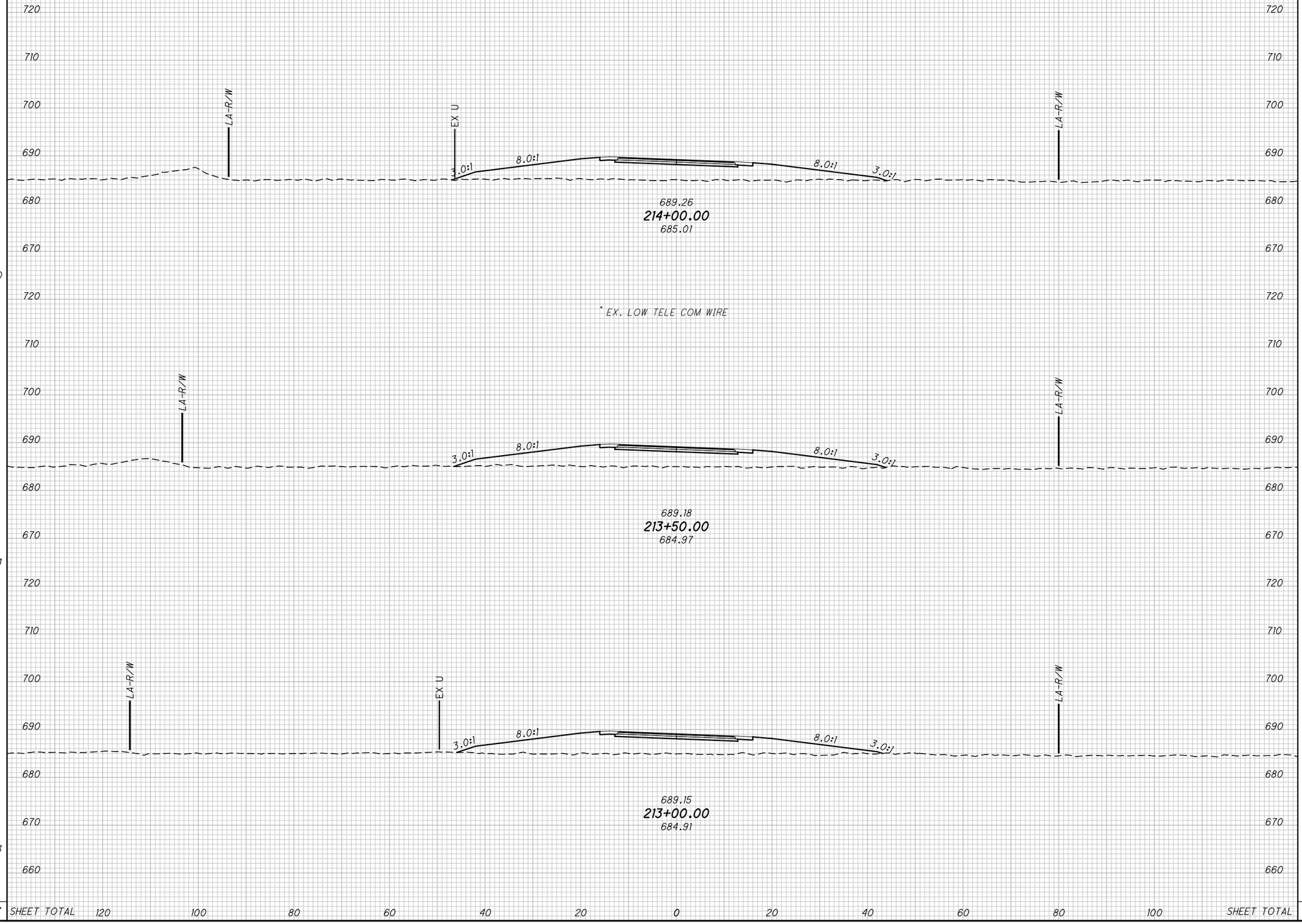


CROSS SECTIONS S.R. 207
STA. 211+50.00 TO STA. 212+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:14 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	STATION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
60	330	214+00.00	0	248	0	452
59	324	213+50.00	0	240	0	448
58	323	213+00.00	0	244	0	452
	977	SHEET TOTAL			0	1352



CALCULATED MJL
CHECKED DMV

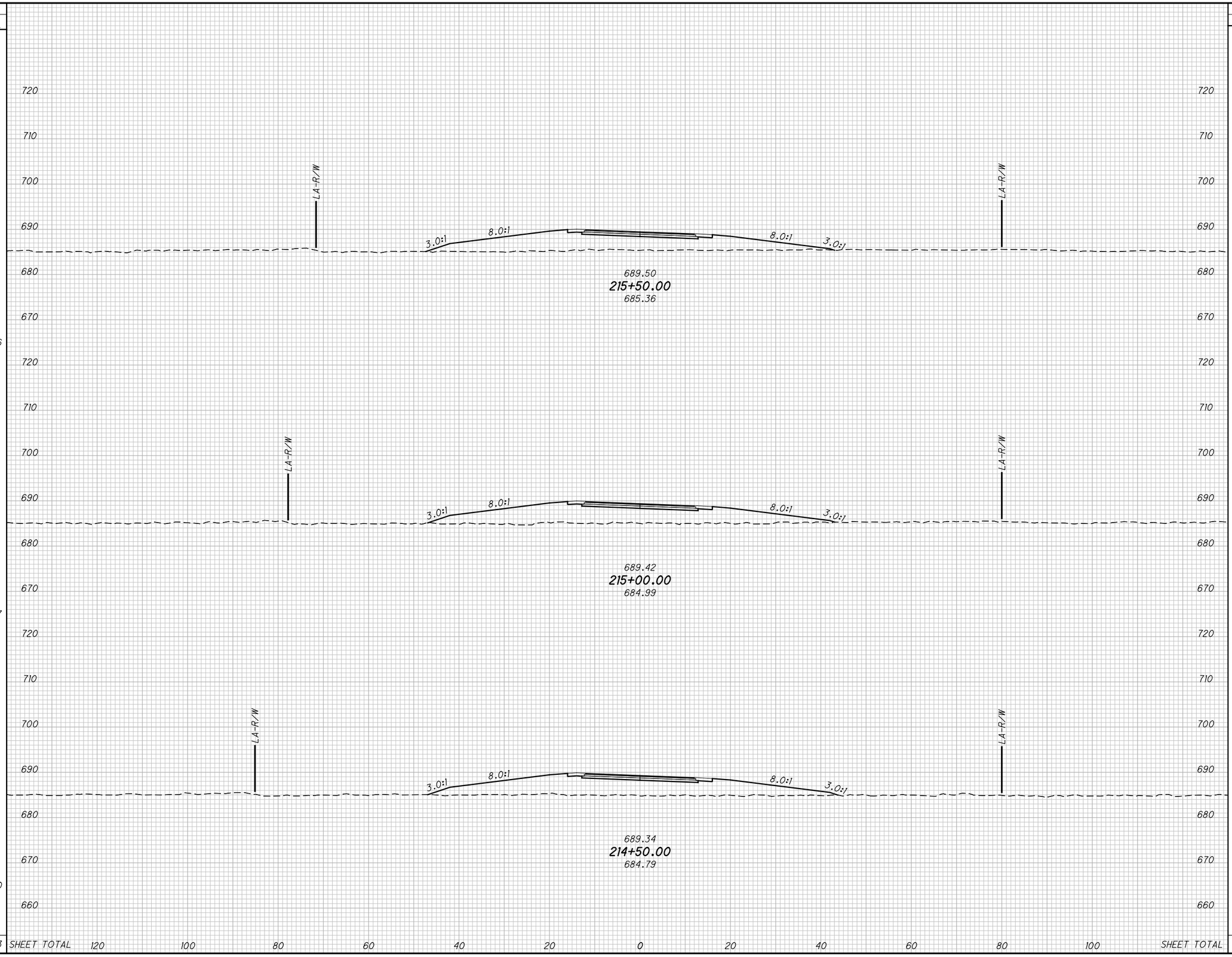
CROSS SECTIONS S.R. 207
STA. 213+00.00 TO STA. 214+00.00

ROS-207-0.00

156
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:15 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	
59	326	
59	327	
59	330	
	983	SHEET TOTAL



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	240		
0	257		
		0	460
0	259		
		0	478
		0	469
		0	1407

CALCULATED MJL
CHECKED DMV

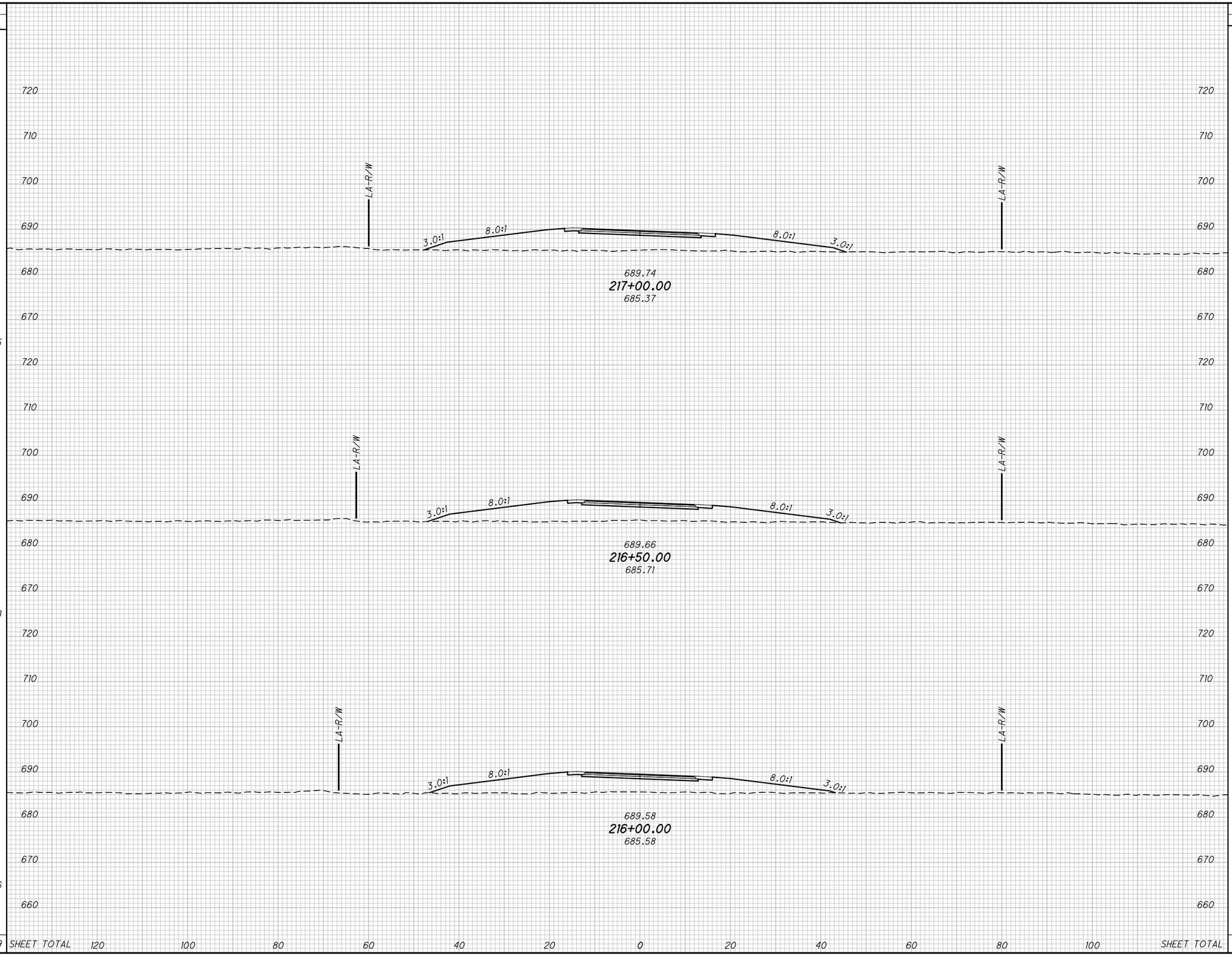
CROSS SECTIONS S.R. 207
STA. 214+50.00 TO STA. 215+50.00

ROS-207-0.00

157
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:15 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
61	335	0	272	0	480
60	328	0	246	0	449
58	326	0	239	0	443
	989			0	1372



CALCULATED MJL
CHECKED DMV

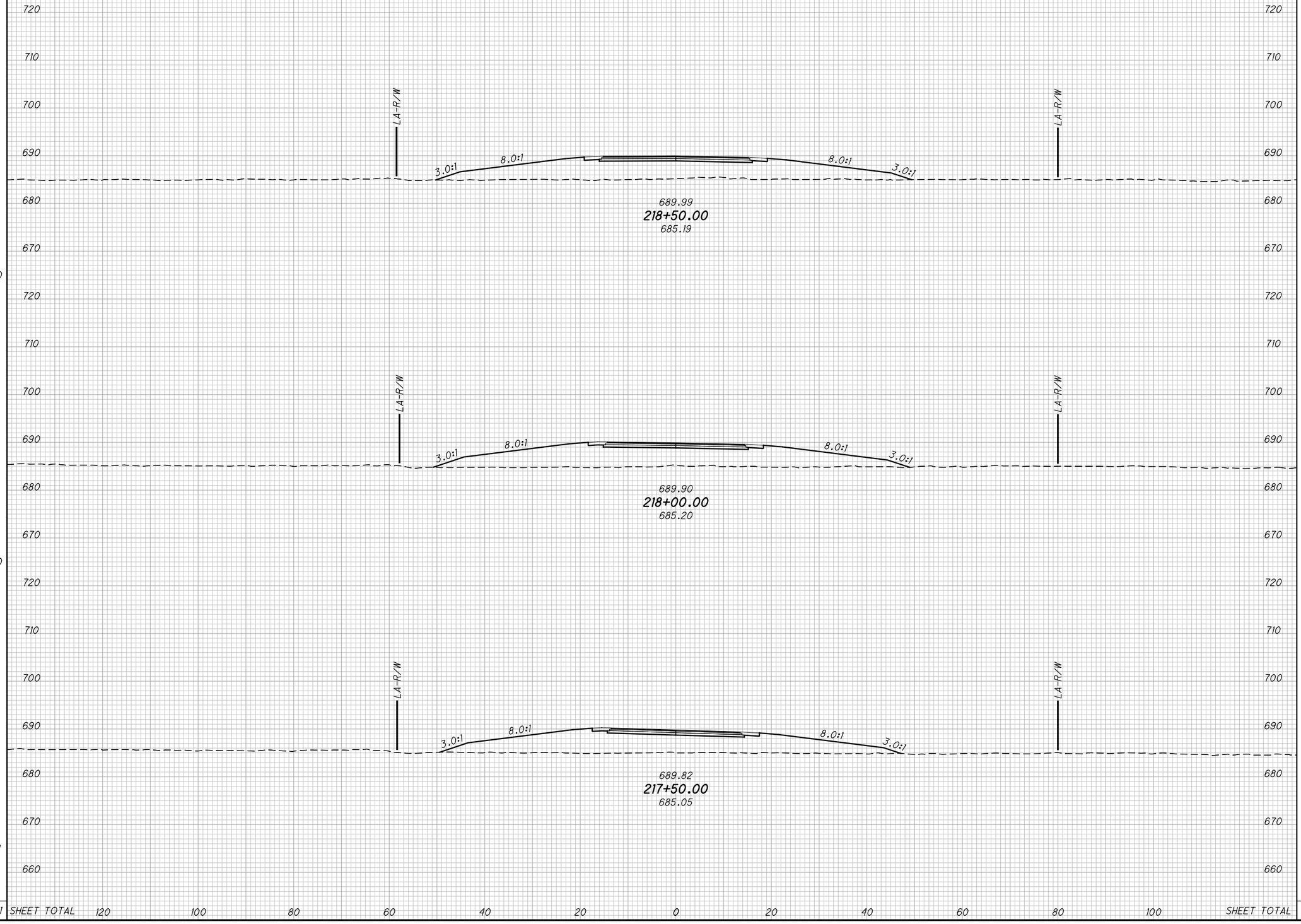
CROSS SECTIONS S.R. 207
STA. 216+00.00 TO STA. 217+00.00

ROS-207-0.00

158
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:16 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
62	350	0	310	0	595
64	350	0	332	0	595
62	341	0	310	0	539
	1041			0	1729



CALCULATED MJL
CHECKED DMV

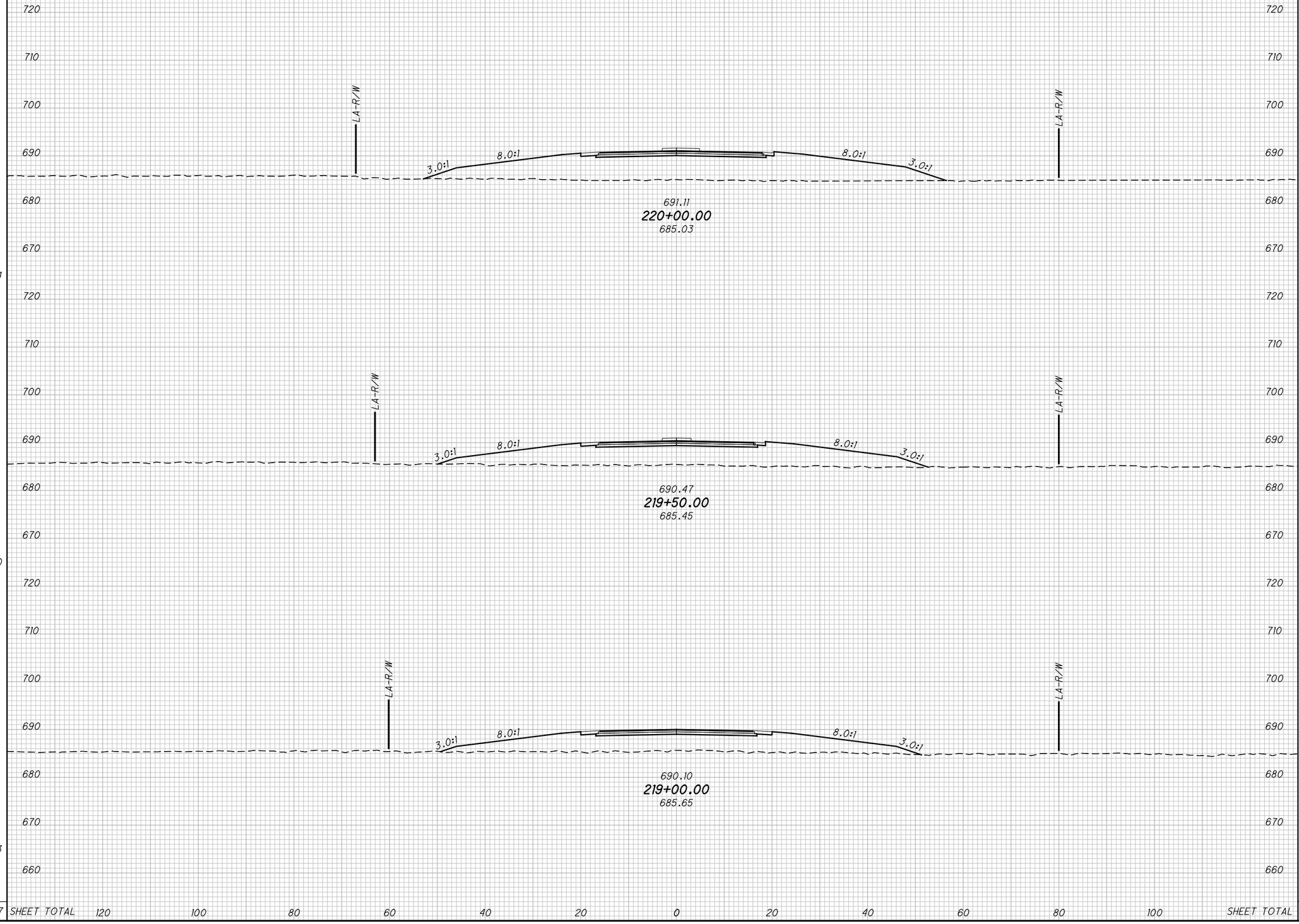
CROSS SECTIONS S.R. 207
STA. 217+50.00 TO STA. 218+50.00

ROS-207-0.00

159
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:16 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
70	374	0	452	0	739
65	350	0	346	0	590
61	343	0	291	0	557
	1067			0	1886



CALCULATED MJL
CHECKED DMV

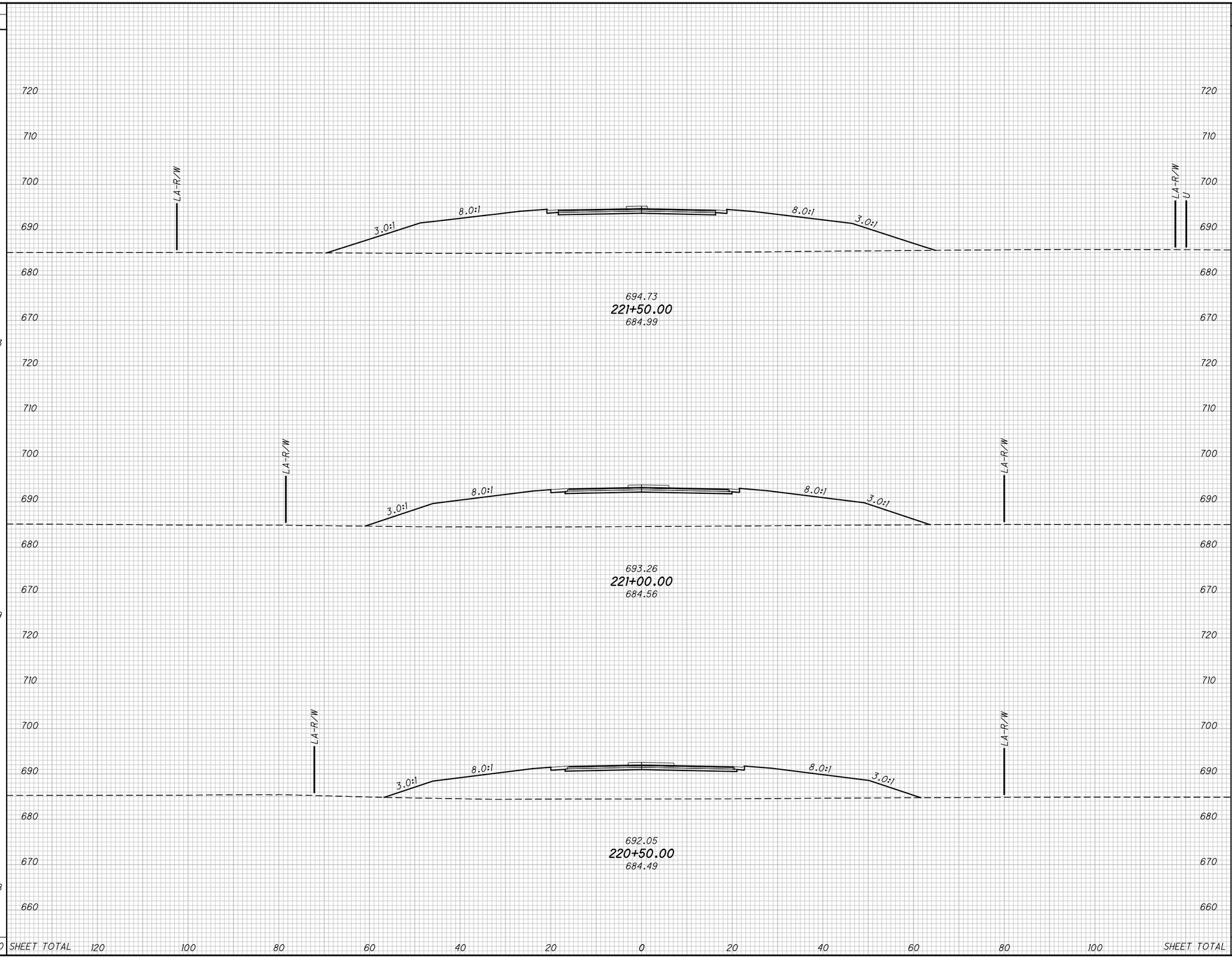
CROSS SECTIONS S.R. 207
STA. 219+00.00 TO STA. 220+00.00

ROS-207-0.00

160
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:17 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
97	503	0	912	0	1534
85	449	0	745	0	1255
77	408	0	610	0	983
	1360			0	3772



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 220+50.00 TO STA. 221+50.00

ROS-207-0.00

161
332

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:17 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
125	
	615
	1222
	1837
48199	

SEE GRADING DETAILS FOR SLOPES

SEE GRADING DETAILS FOR SLOPES

720 710 700 690 680 670

696.23
222+00.00
686.04

100 80 60 40 20 0 20 40 60 80 100

SOUTH ROUNDABOUT OFFICE CALULATION

SHEET TOTAL

ALIGNMENT TOTAL

SOUTH ROUNDABOUT OFFICE CALCULATION

SHEET TOTAL

ALINGMENT TOTAL

END AREA	
CUT	FILL
0	1412

VOLUME	
CUT	FILL
0	2152
54	4415
54	6567
CUT VOL	FILL VOL
7186	67421

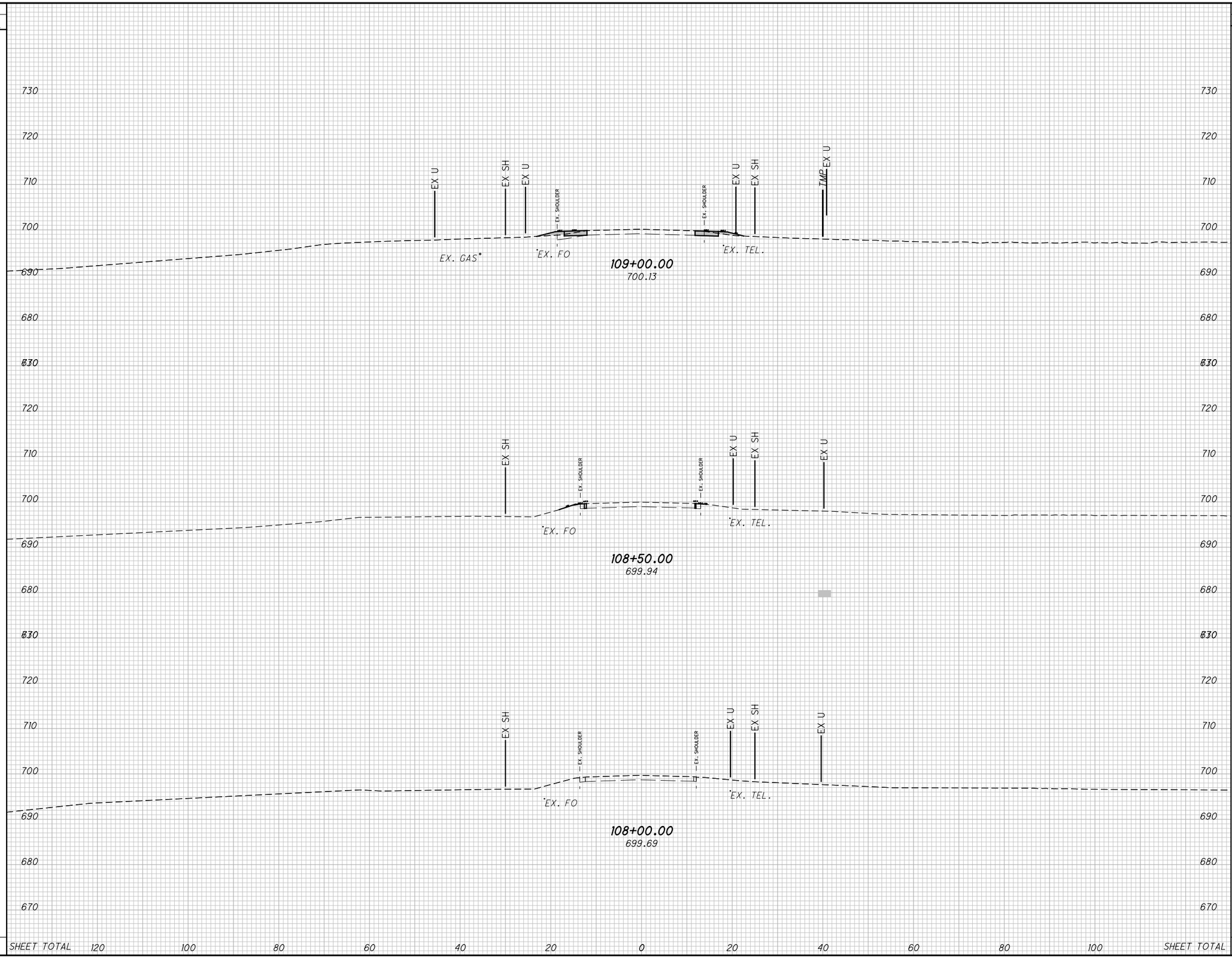
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 207
STA. 222+00.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS001.dgn 5/2/2019 10:09:18 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MJL	DMV

CROSS SECTIONS S.R. 159
STA. 108+00.00 TO STA. 109+00.00

ROS-207-0.00

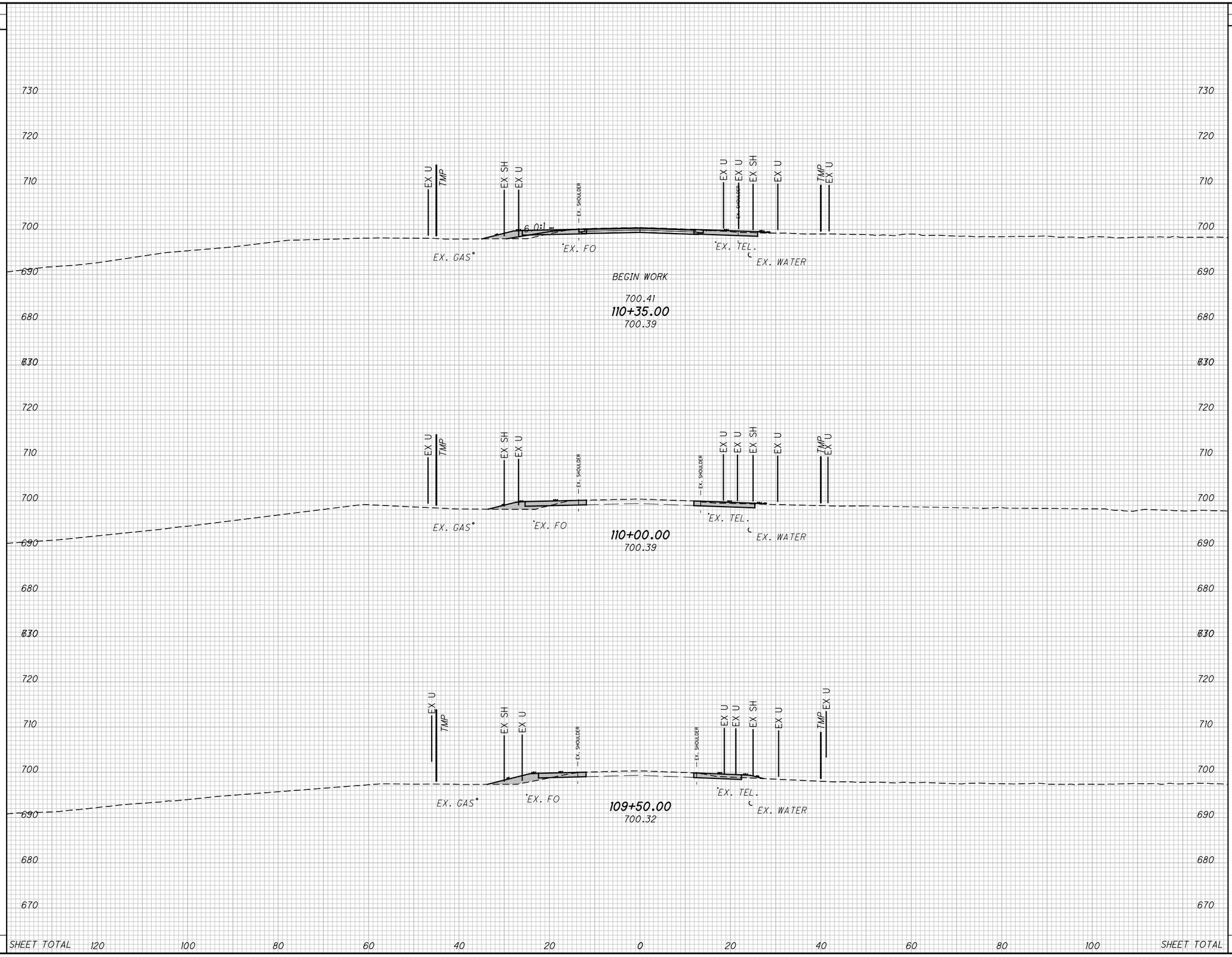
c:\pwworking\east01\d0244753\93744_XS003.dgn 5/2/2019 10:09:25 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
18	0

END AREA	
CUT	FILL
29	6

VOLUME	
CUT	FILL
0	0

CALCULATED MJL
CHECKED DMV

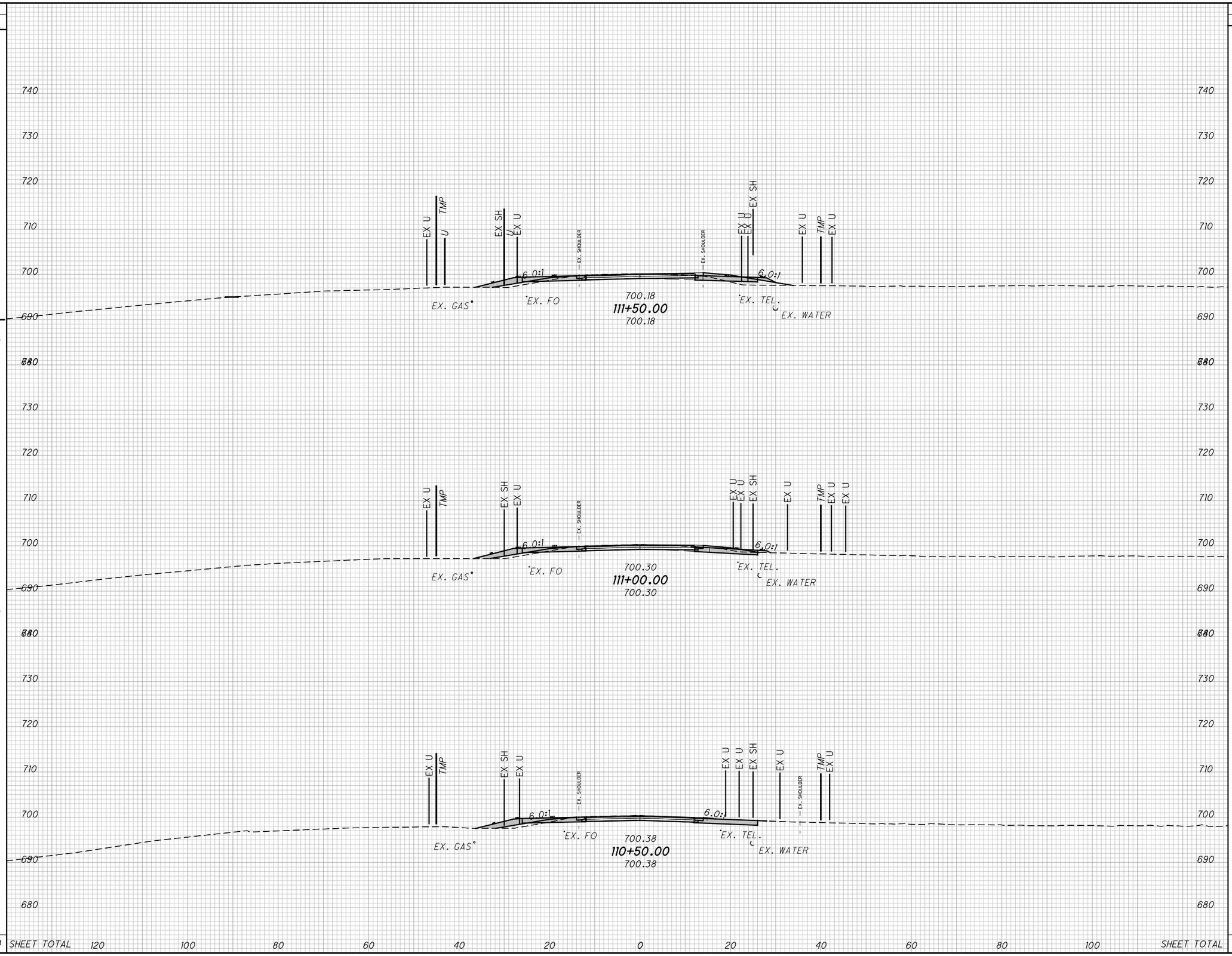


CROSS SECTIONS S.R. 159
STA. 109+50.00 TO STA. 110+35.00

ROS-207-0.00

c:\pwworking\eastO1\d0244753\93744_XS003.dgn 5/2/2019 10:09:26 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
39	196	25	29	48	38
32	146	26	13	50	19
21	32	28	8	16	4
	374			114	61



CALCULATED MJL
CHECKED DMV

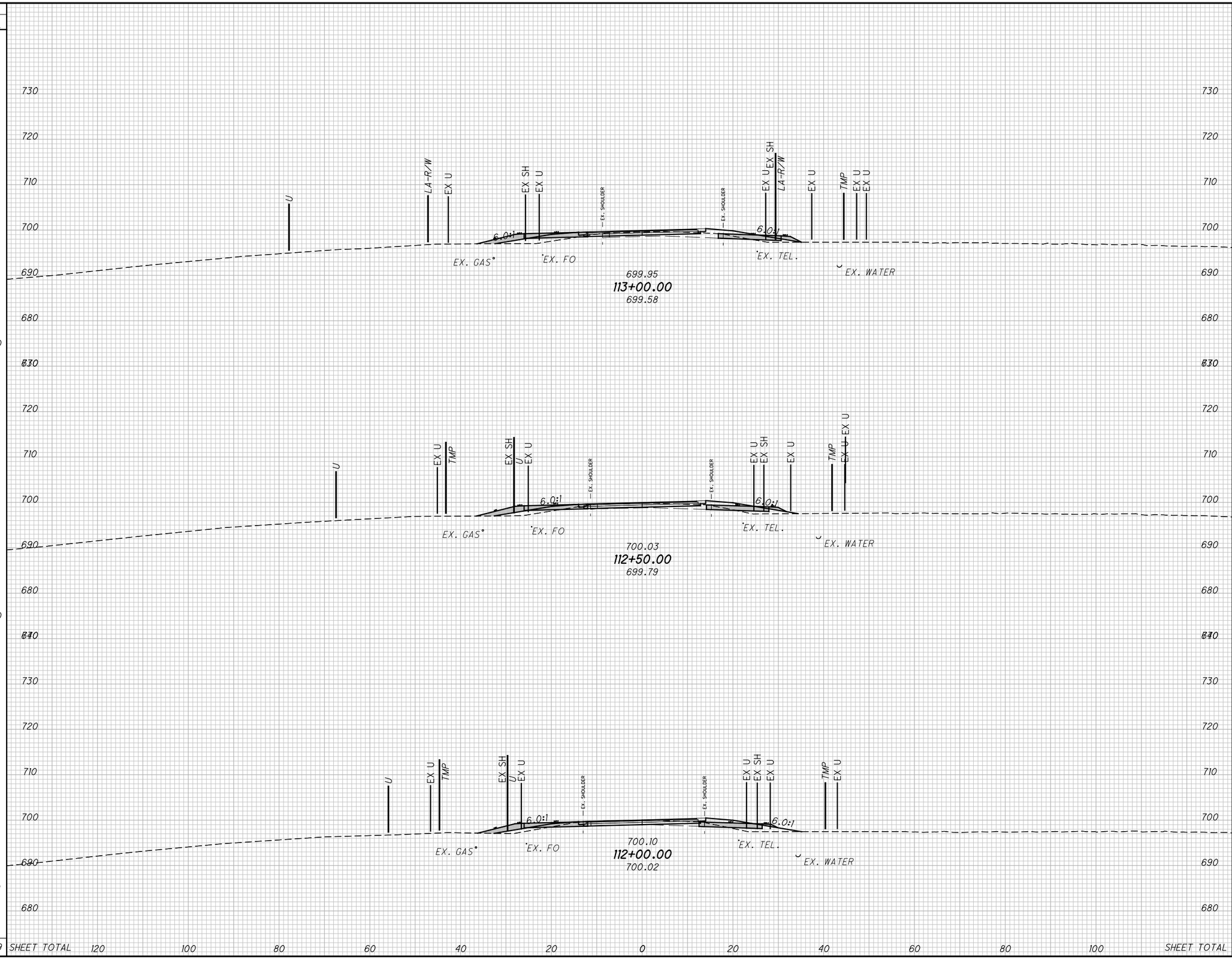
CROSS SECTIONS S.R. 159
STA. 110+50.00 TO STA. 111+50.00

ROS-207-0.00

165
332

c:\pwworking\east01\d0244753\i93744_XS003.dgn 5/2/2019 10:09:26 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.
40	220
39	220
40	219
	659



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
15	39		
19	37		
22	37		
		31	71
		38	69
		44	60
		113	200

CALCULATED MJL
CHECKED DMV

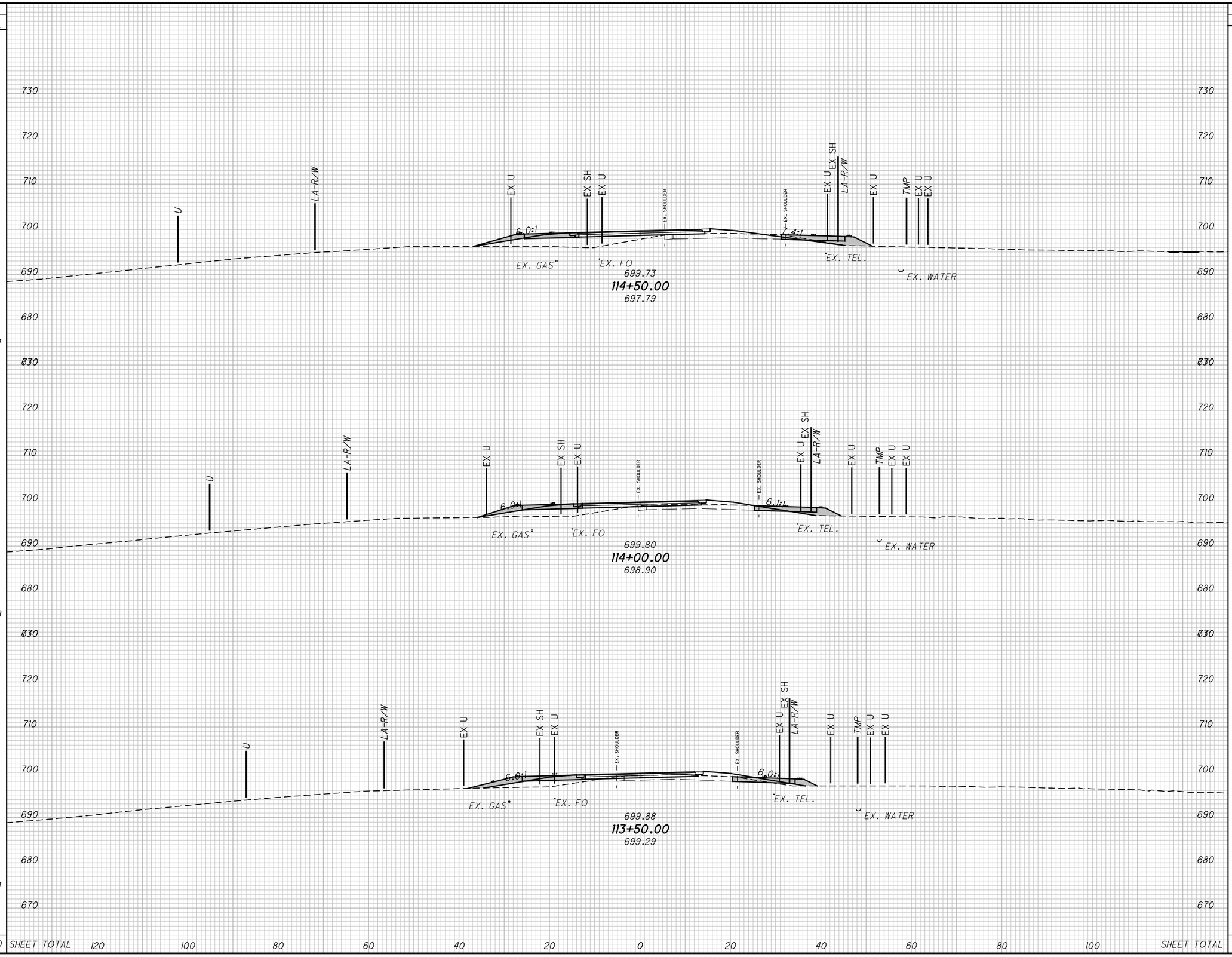
CROSS SECTIONS S.R. 159
STA. 112+00.00 TO STA. 113+00.00

ROS-207-0.00

166
332

c:\pwworking\eost01\d0244753\93744_XS003.dgn 5/2/2019 10:09:26 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
52	271	5	76	8	117
46	248	4	50	12	87
43	231	9	44	22	77
750 SHEET TOTAL				42	281



CALCULATED MJL
CHECKED DMV

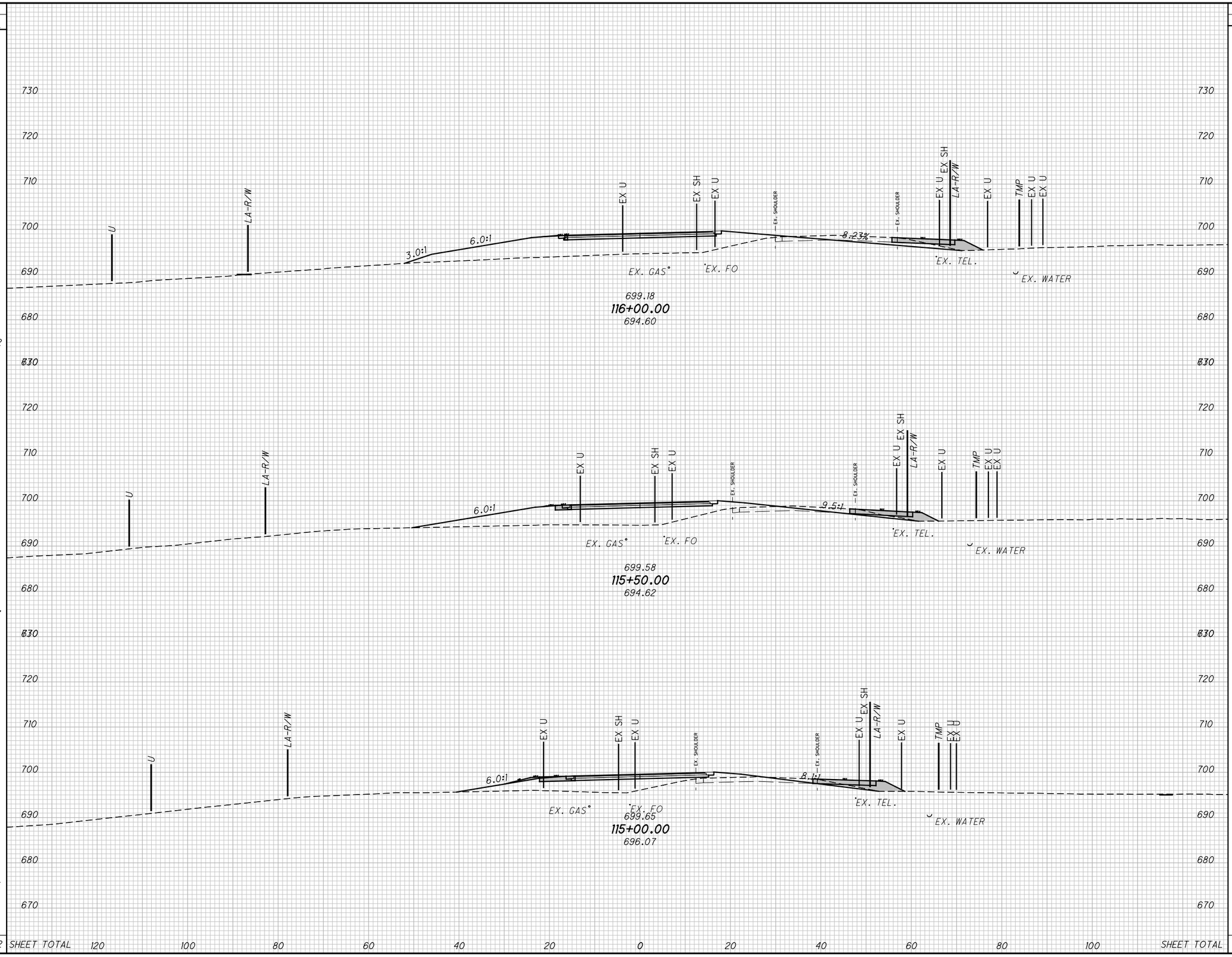
CROSS SECTIONS S.R. 159
STA. 113+50.00 TO STA. 114+50.00

ROS-207-0.00

167
332

c:\pwworking\east01\d0244753\93744_XS003.dgn 5/2/2019 10:09:27 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
88	462	37	253	53	423
78	387	20	205	29	294
61	313	12	113	16	175
	1162			98	892



CALCULATED MJL
CHECKED DMV

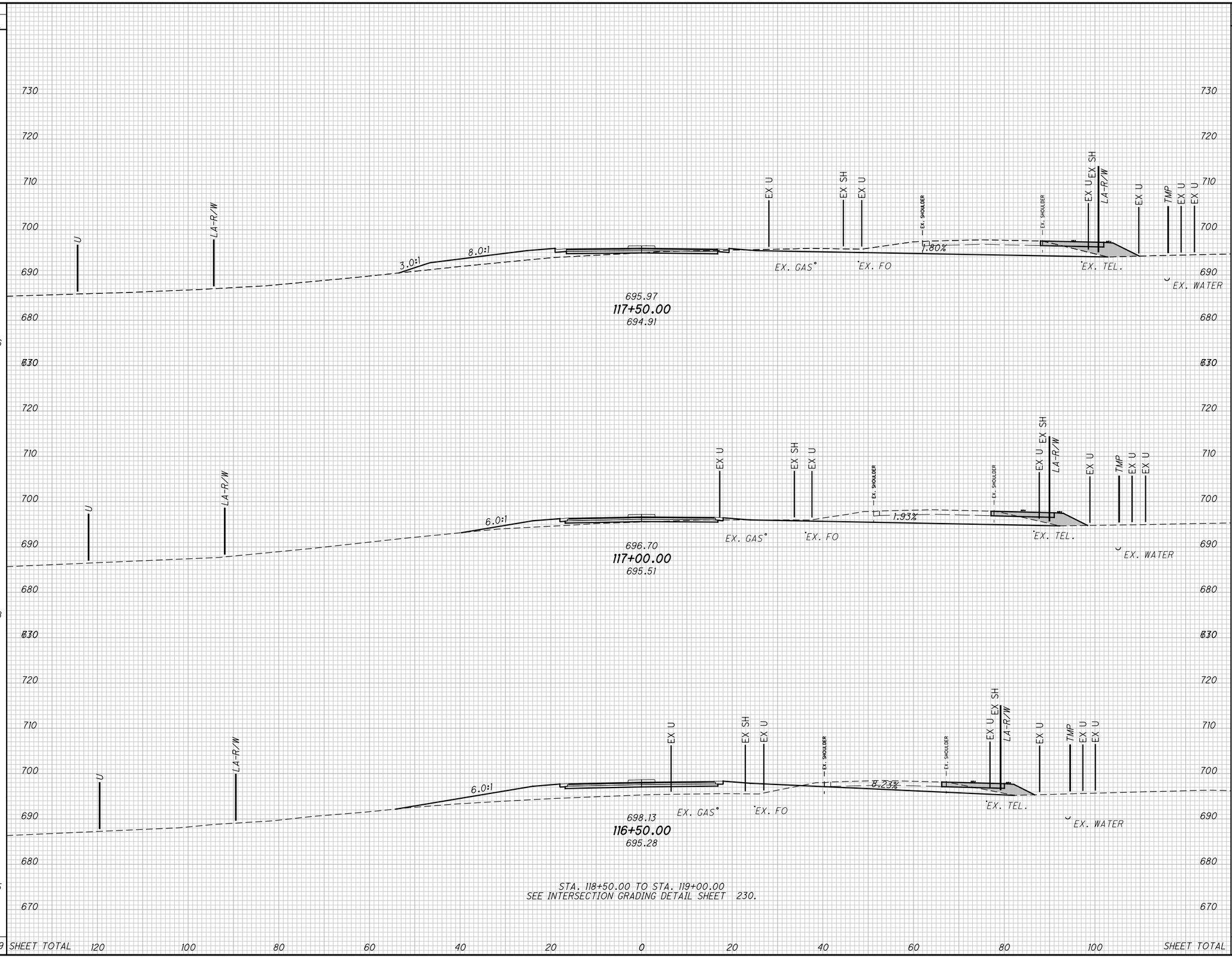
CROSS SECTIONS S.R. 159
STA. 115+00.00 TO STA. 116+00.00

ROS-207-0.00

168
332

c:\pwworking\east01\d0244753\i93744_XS003.dgn 5/2/2019 10:09:27 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
118	596	154	65	257	84
96	548	124	26	178	168
101	525	69	156	98	378
	1669 SHEET TOTAL			533	630



120	100	80	60	40	20	0	20	40	60	80	100	SHEET TOTAL

CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 159
STA. 116+50.00 TO STA. 117+50.00

ROS-207-0.00

169
332

c:\pwworking\east01\d0244753\i93744_XS003.dgn 5/2/2019 10:09:27 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
672	SHEET TOTAL

END AREA	
CUT	FILL
97	352

VOLUME	
CUT	FILL
232	386
232	386

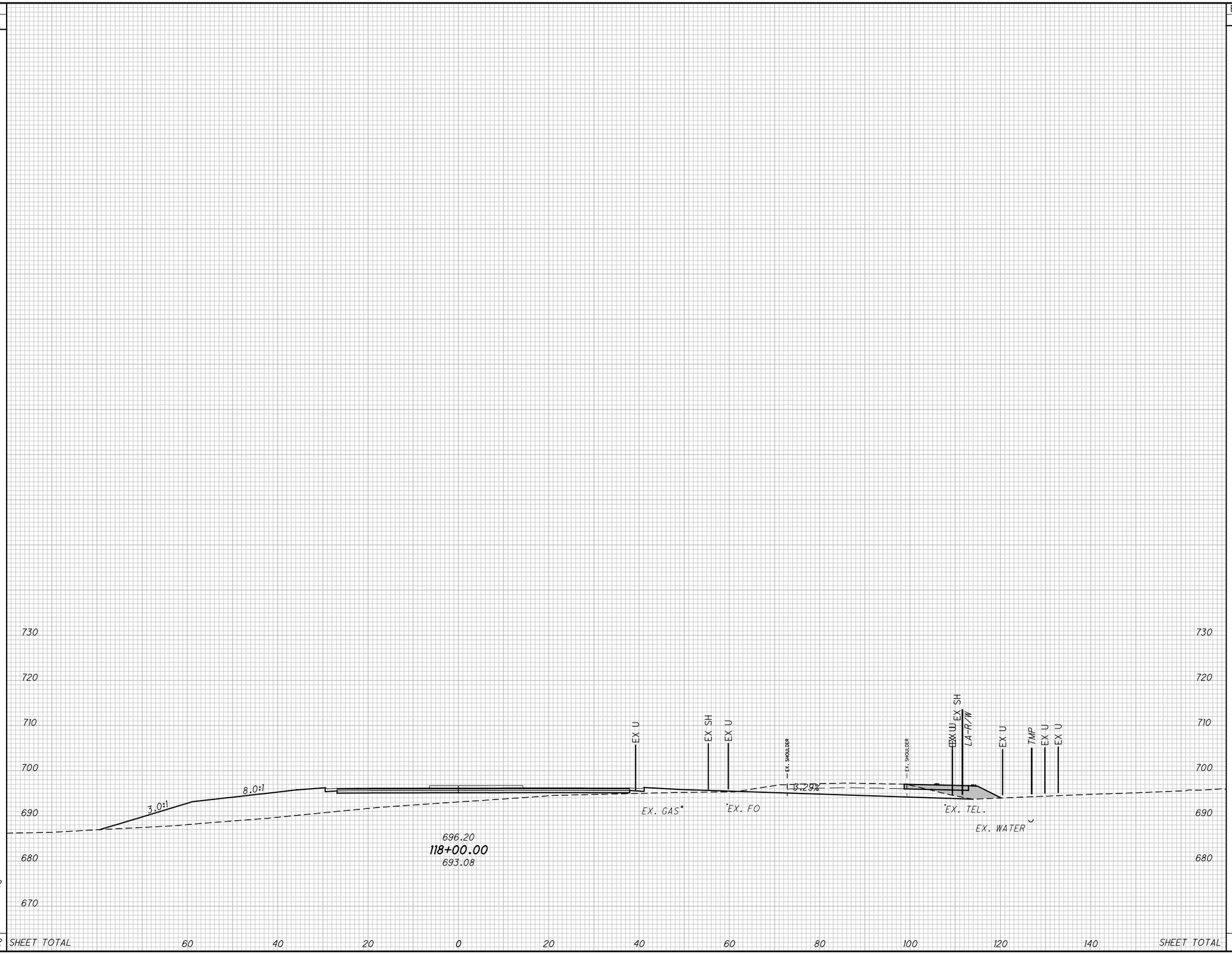
CALCULATED MJL

CHECKED DMV

CROSS SECTIONS S.R. 159
STA. 118+00.00 TO STA. 118+50.00

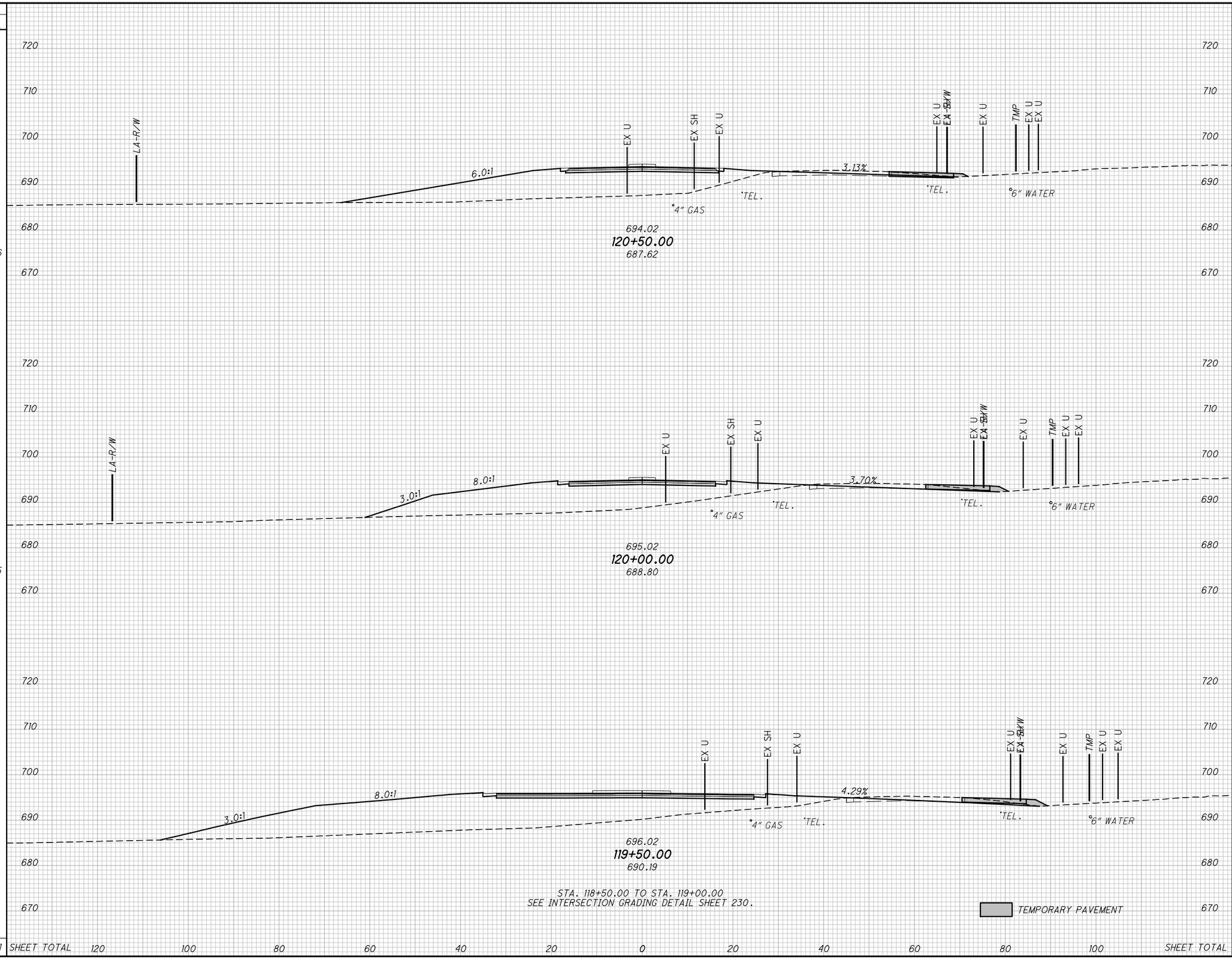
ROS-207-0.00

170
332



c:\pwworking\east01\d0244753\93744_XS003.dgn 5/2/2019 10:09:28 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
100	566	18	372	41	715
103	655	27	401	51	1044
132	0	29	727	0	0
	1221			92	1759



SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

CALCULATED MJL CHECKED DMV

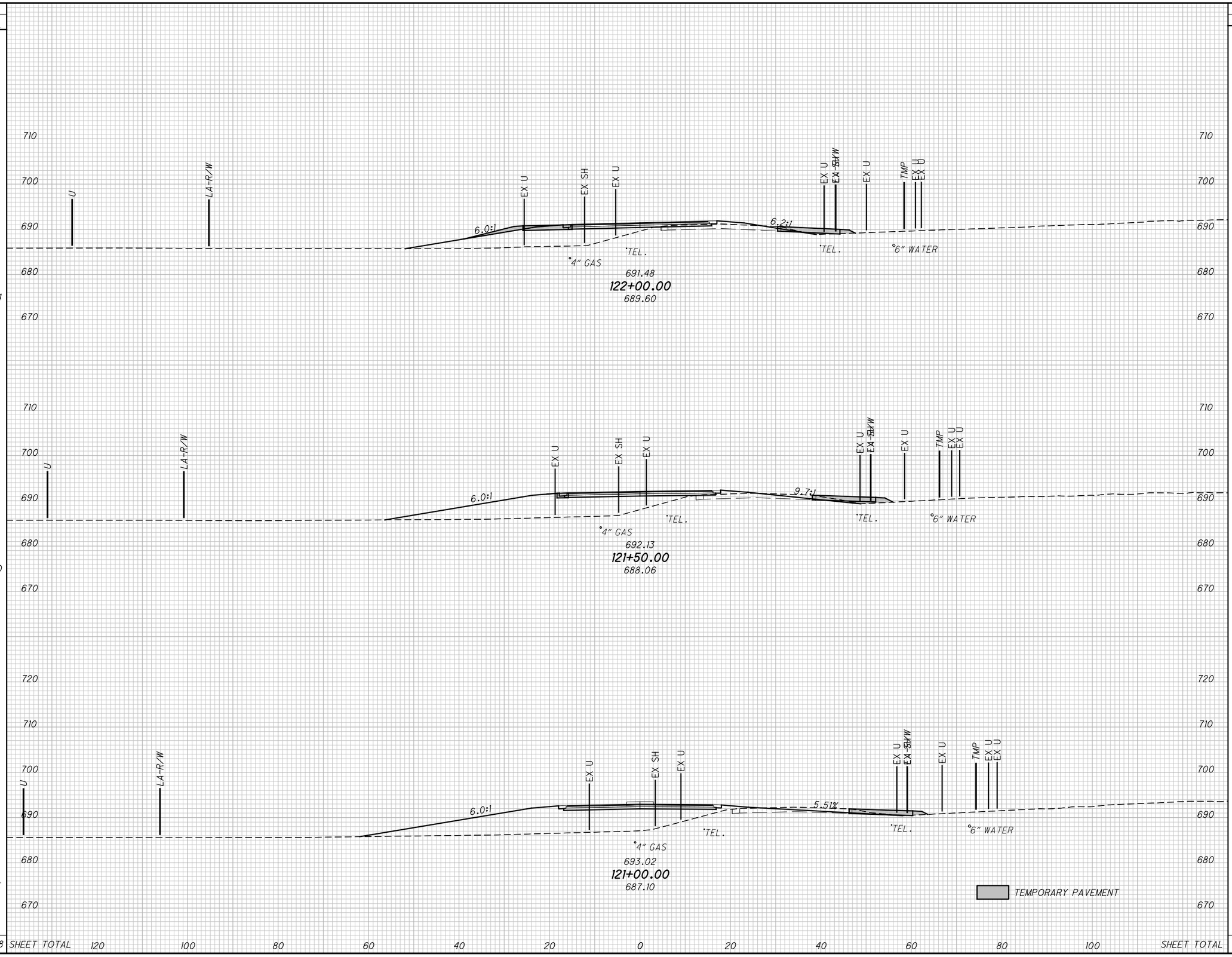
CROSS SECTIONS S.R. 159
STA. 119+50.00 TO STA. 120+50.00

ROS-207-0.00

171
332

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:38 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
57	354	6	146	15	329
70	430	10	210	23	463
85	514	15	291	30	613
	1298 SHEET TOTAL			68	1405



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 159
STA. 121+00.00 TO STA. 122+00.00

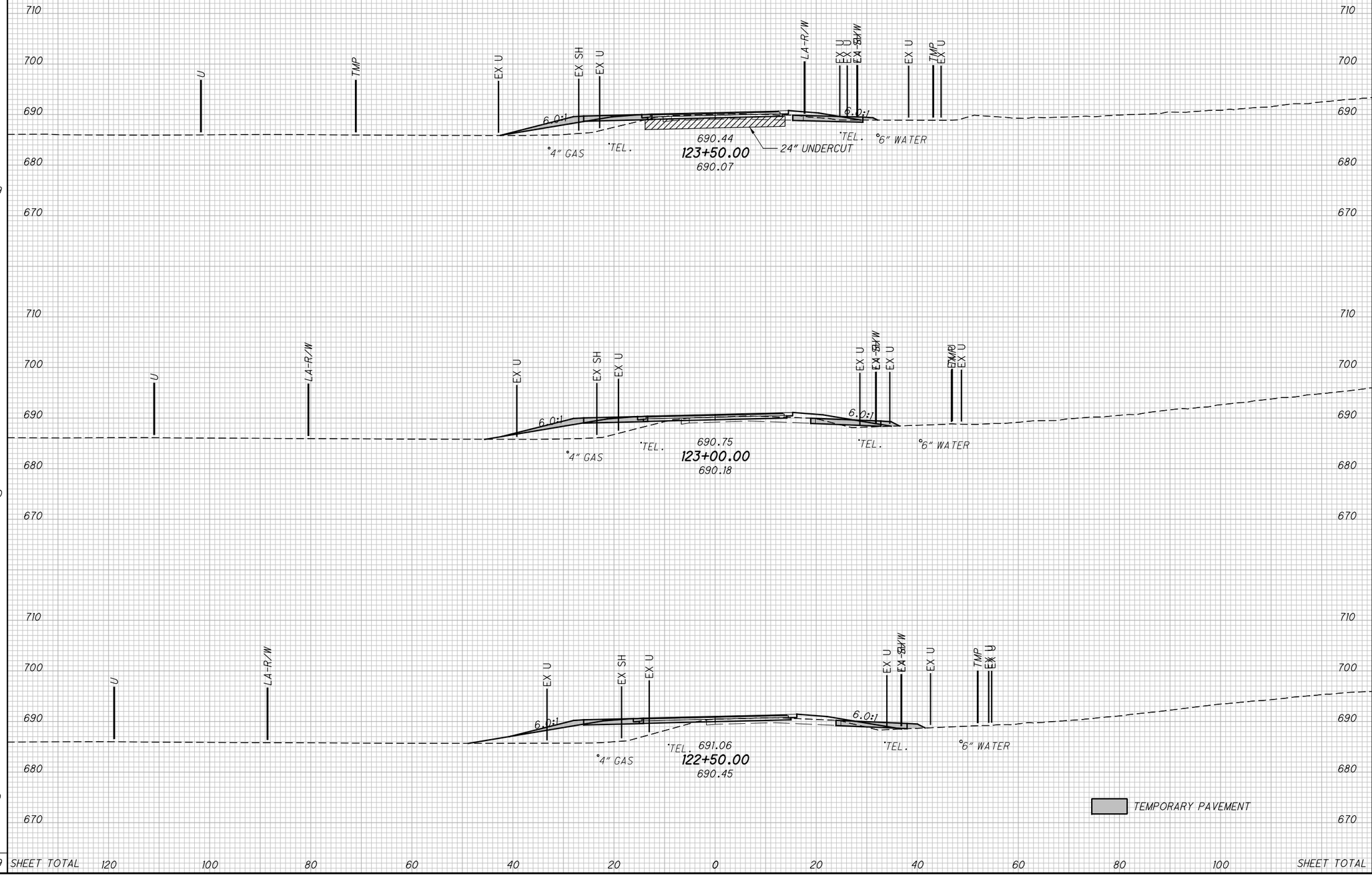
ROS-207-0.00

172
332

c:\pwworking\eost01\d0244753\93744_XS006.dgn 5/2/2019 10:09:39 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
43	259	15	55	23	133
50	290	10	89	17	190
54	310	8	116	13	242
	859			53	565

CALCULATED MJL
CHECKED DMV



SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

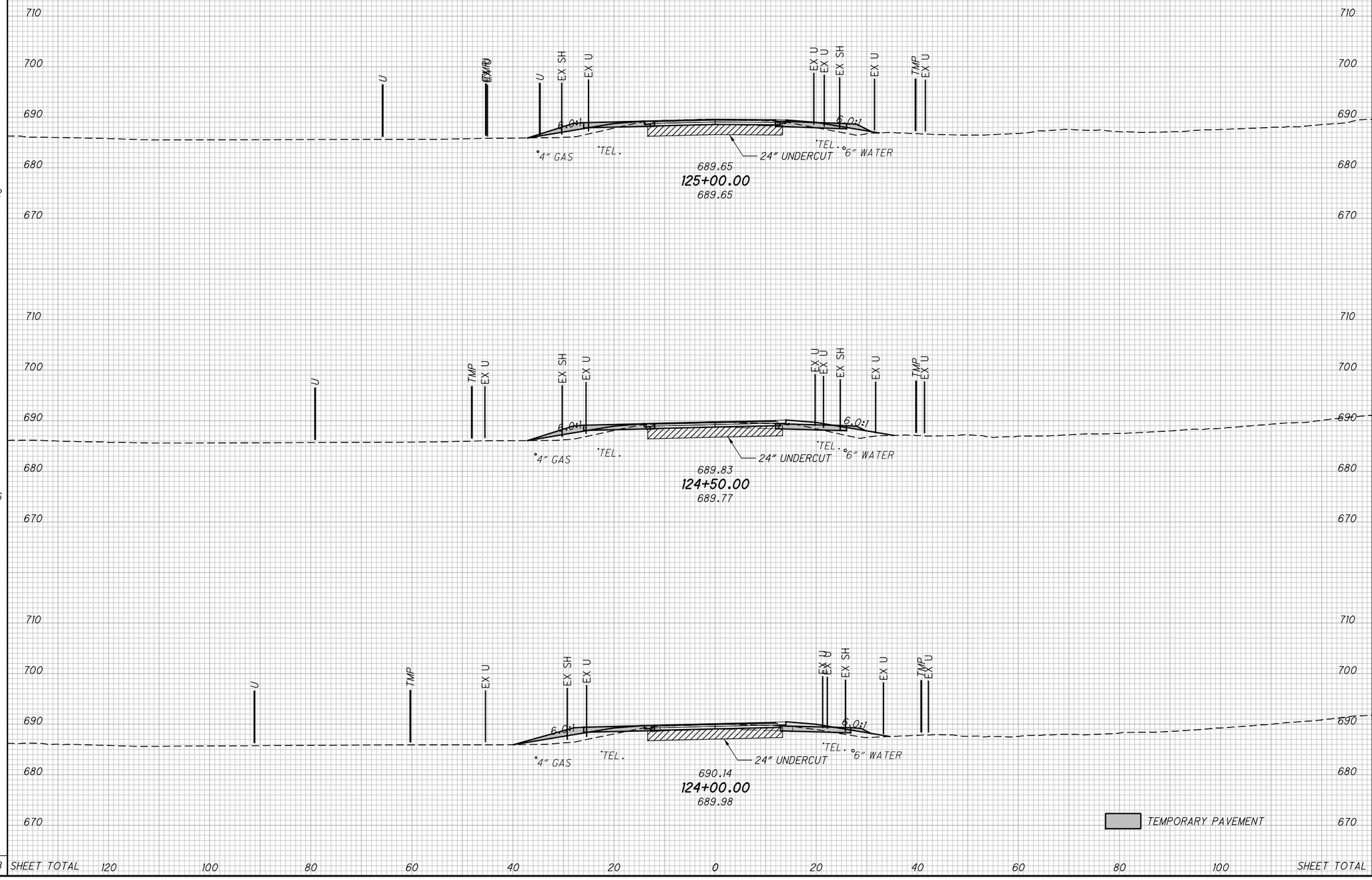
CROSS SECTIONS S.R. 159
STA. 122+50.00 TO STA. 123+50.00

ROS-207-0.00

173
332

c:\pwworking\east01\d0244753\i93744_XS006.dgn 5/2/2019 10:09:40 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
42	242	26	34	45	70
45	256	22	41	39	79
47	80	20	44	32	91
	578 SHEET TOTAL			116	240



CALCULATED MJL
CHECKED DMV

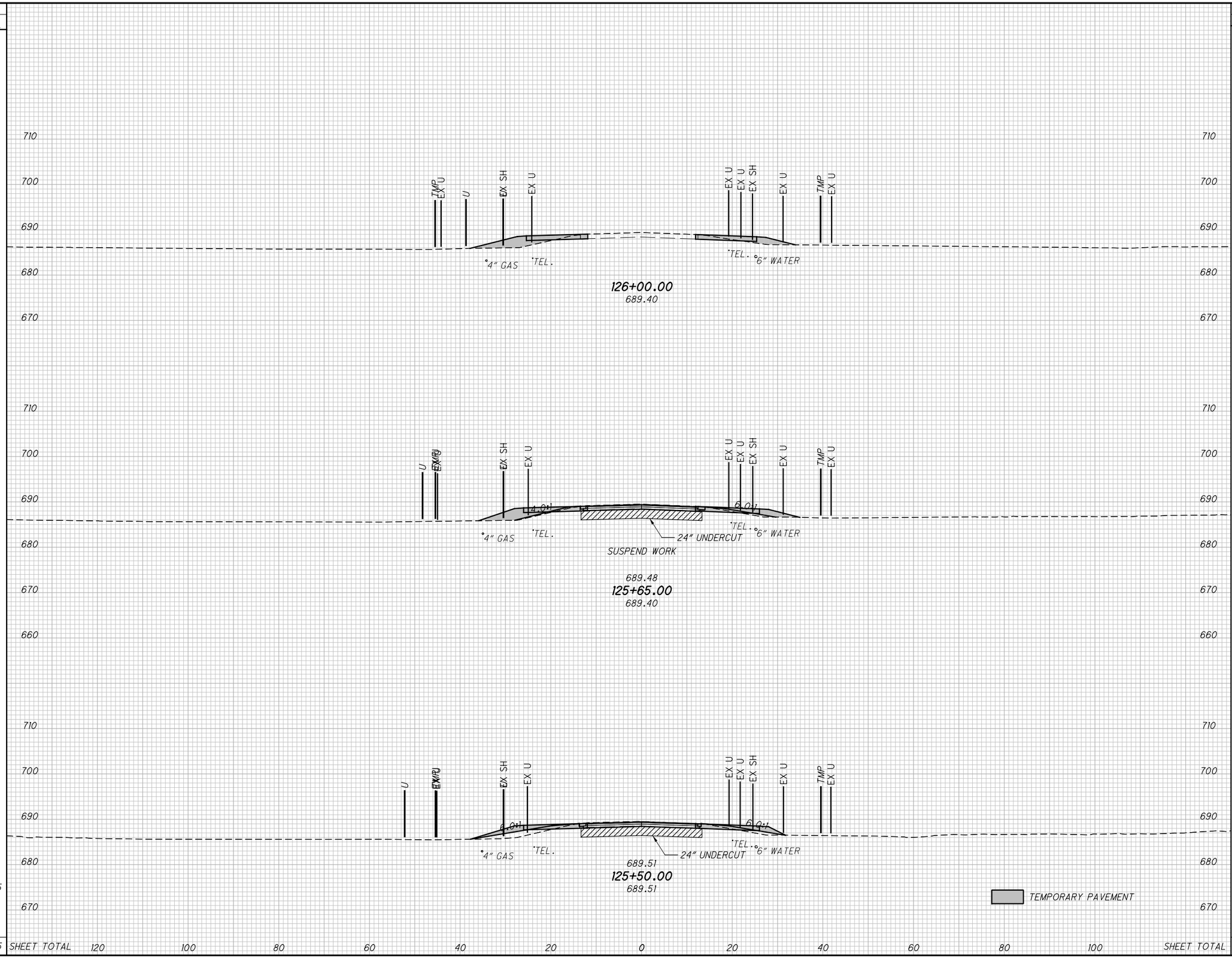
CROSS SECTIONS S.R. 159
STA. 124+00.00 TO STA. 125+00.00

ROS-207-0.00

174
332

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:40 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
32	60
43	235
	295



END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	8	15	9
29	26	51	56
		66	65

CALCULATED MJL
CHECKED DMV

CROSS SECTIONS S.R. 159
STA. 125+50.00 TO STA. 126+00.00

ROS-207-0.00

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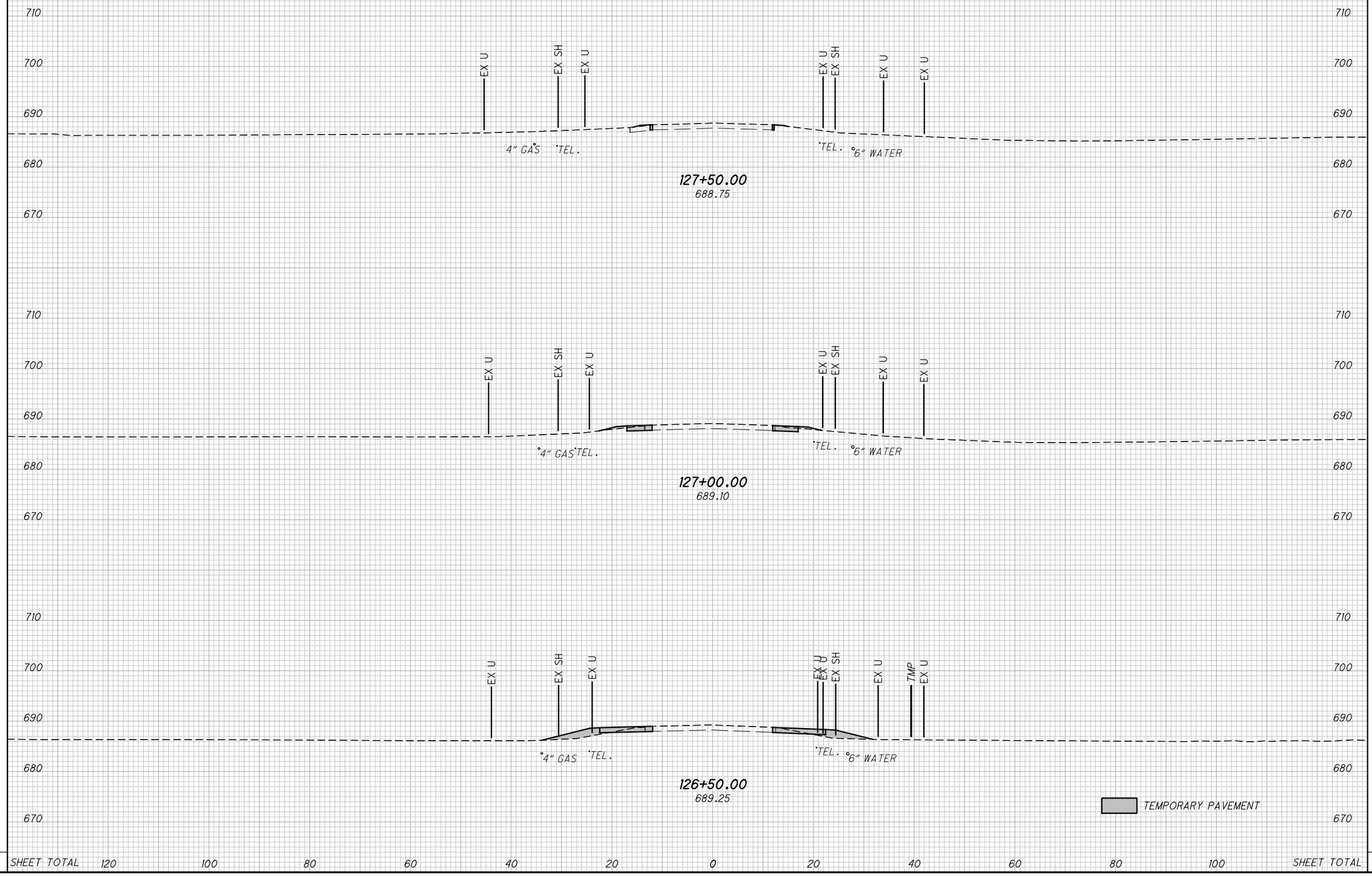
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL

CHECKED DMV



CROSS SECTIONS S.R. 159
STA. 126+50.00 TO STA. 127+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:42 AM MLORENZ

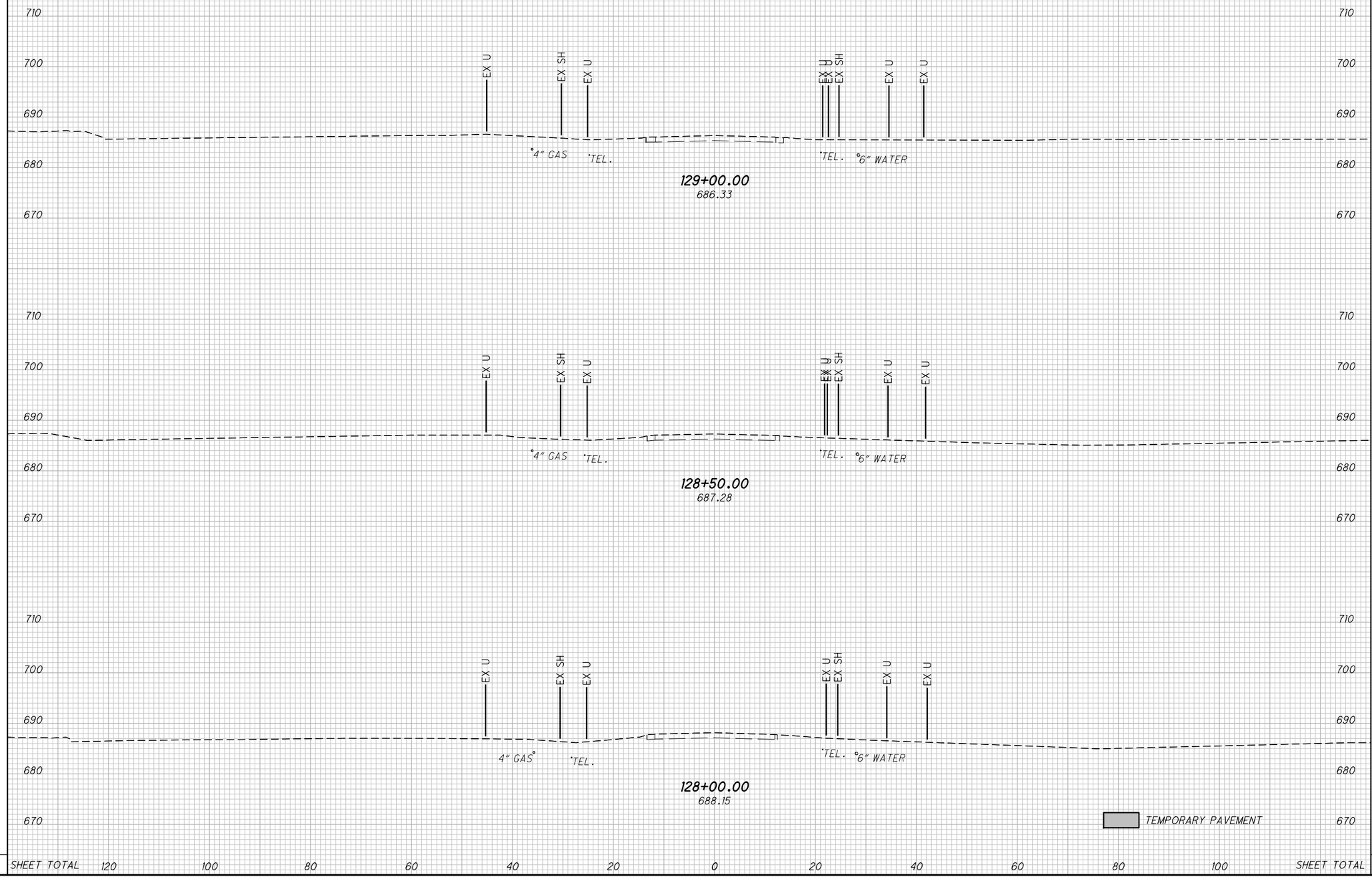
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL

CHECKED DMV



CROSS SECTIONS S.R. 159
STA. 128+00.00 TO STA. 129+00.00

ROS-207-0.00

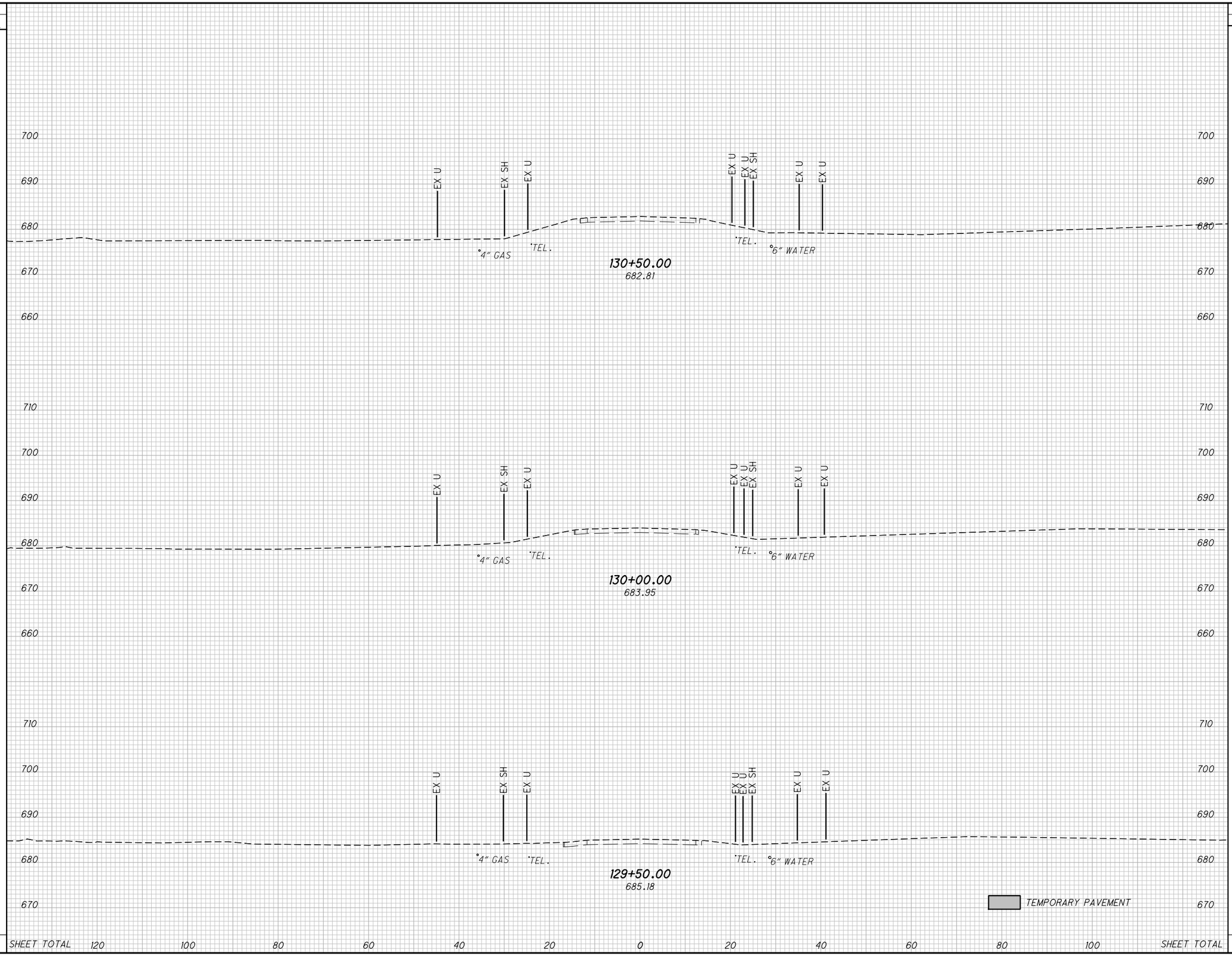
c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:42 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL
CHECKED DMV



CROSS SECTIONS S.R. 159
STA. 129+50.00 TO STA. 130+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:43 AM MLORENZ

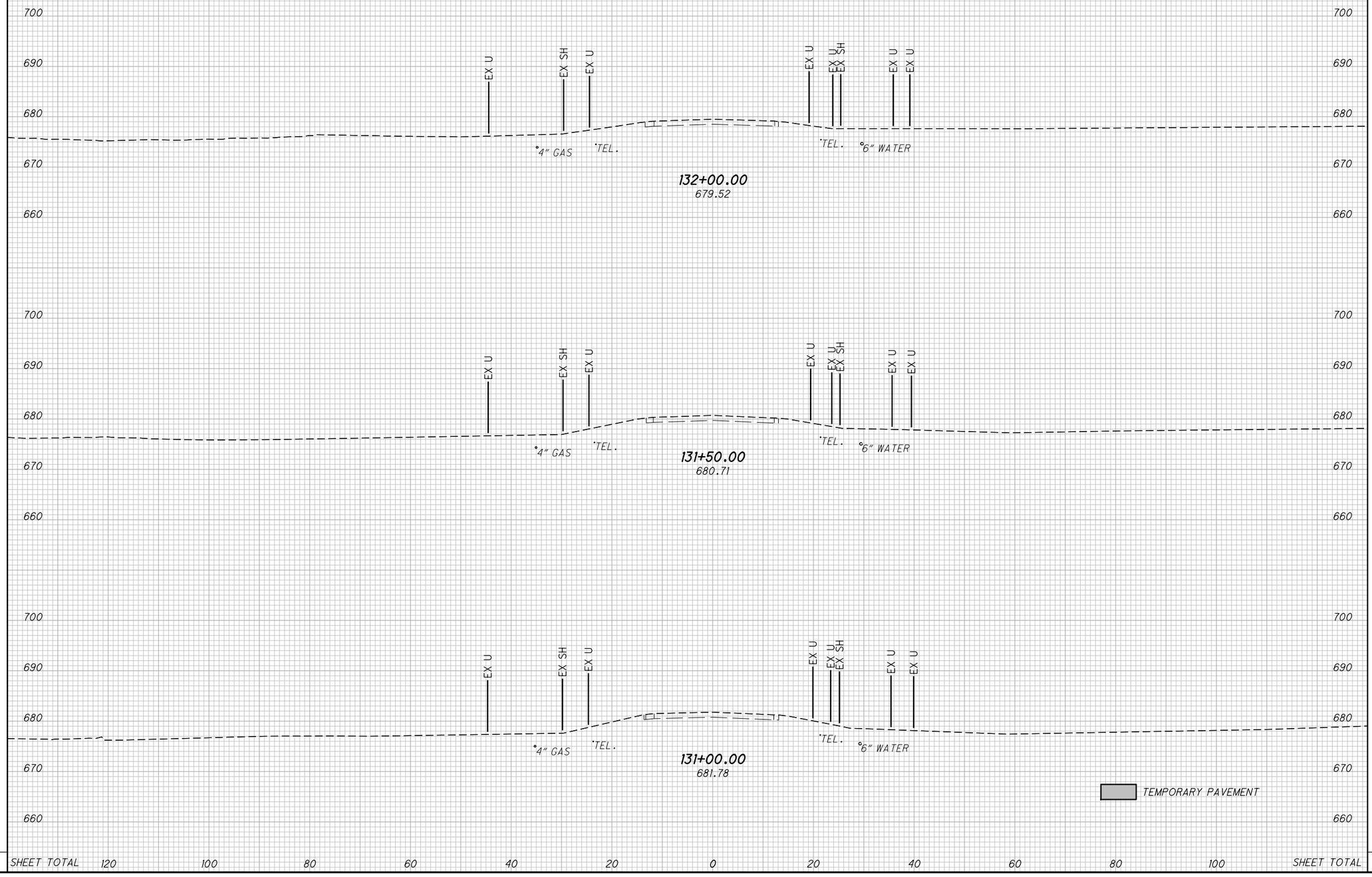
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL

CHECKED DMV



CROSS SECTIONS S.R. 159
STA. 131+00.00 TO STA. 132+00.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:44 AM MLORENZ

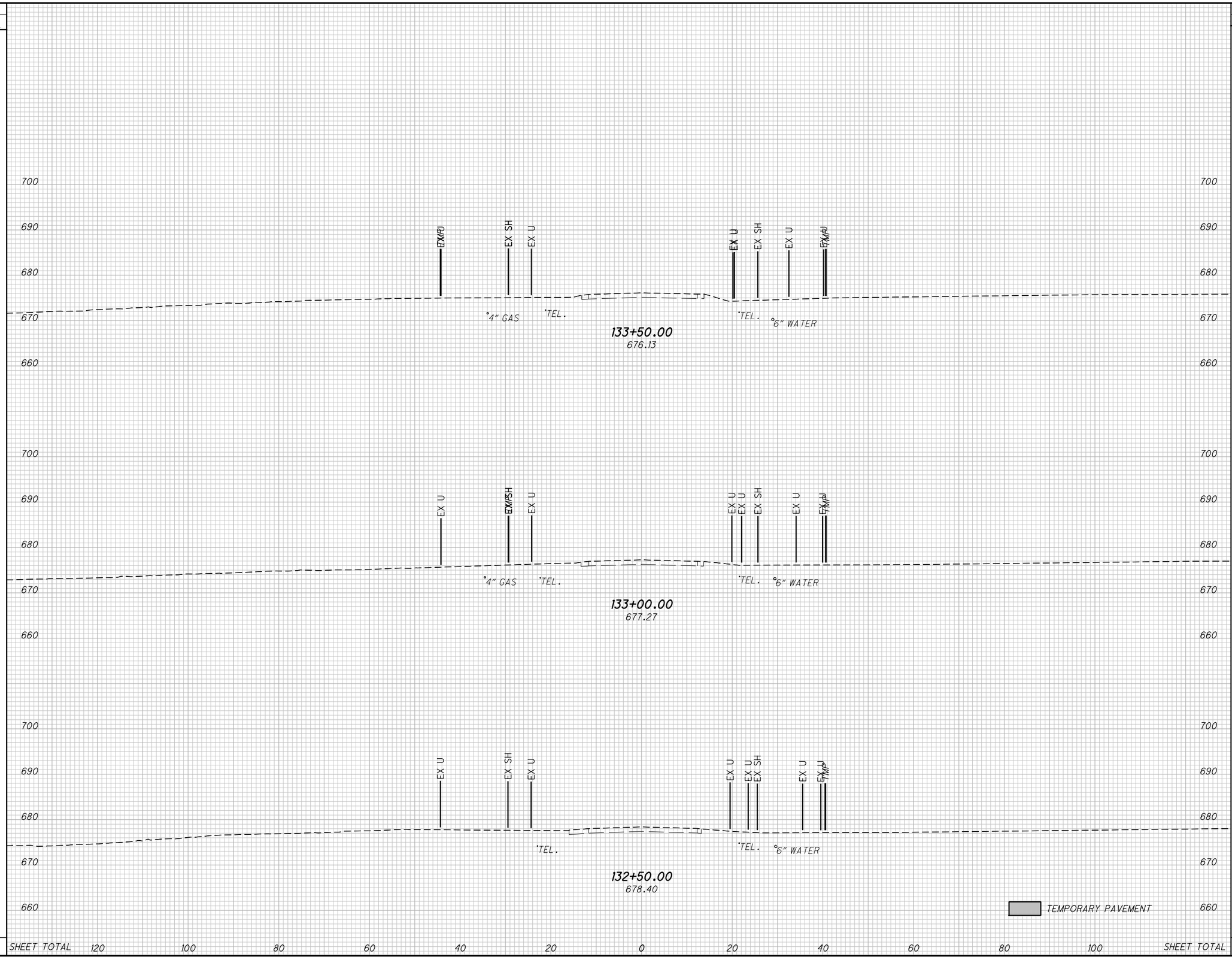
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL

CHECKED DMV



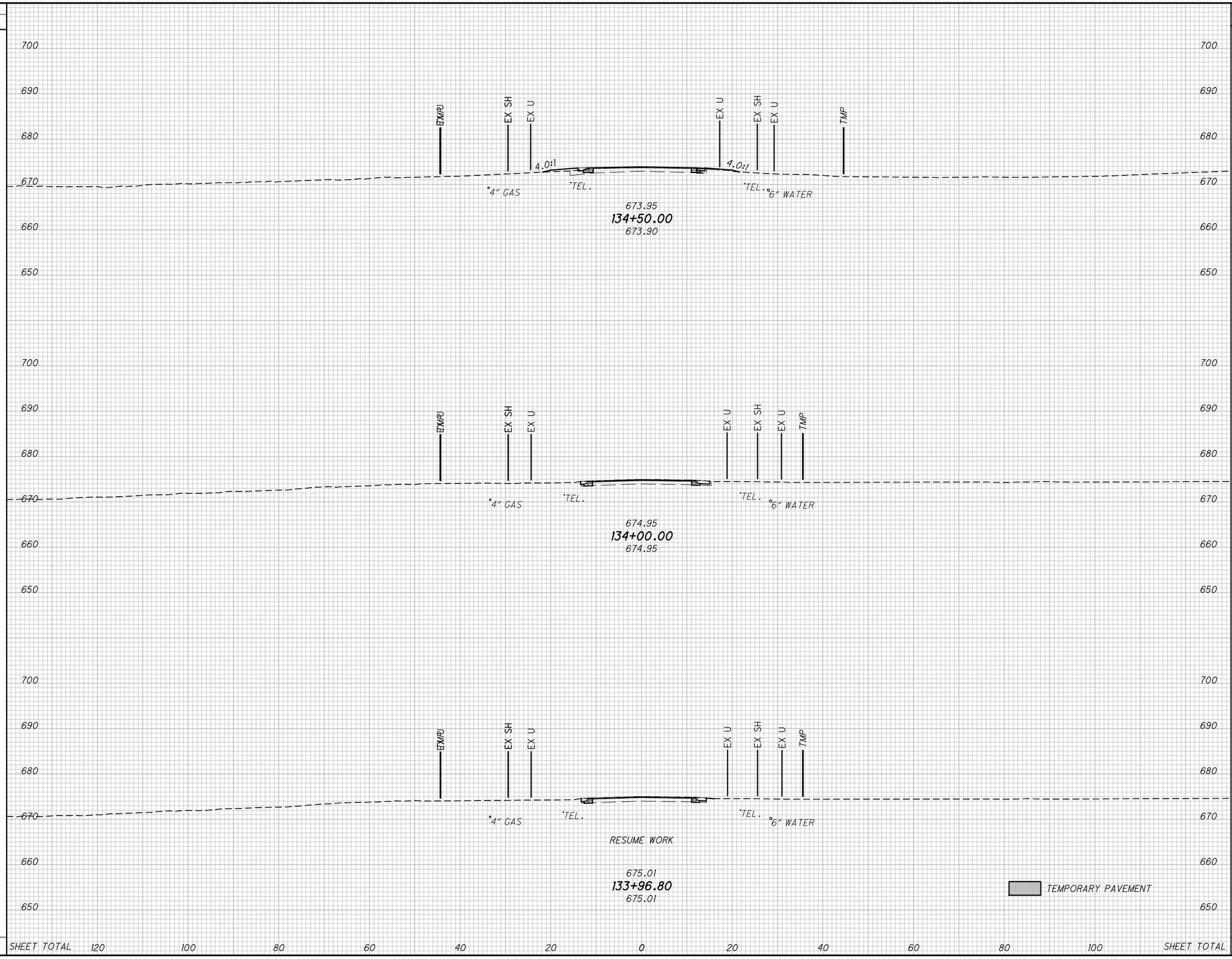
CROSS SECTIONS S.R. 159
STA. 132+50.00 TO STA. 133+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:45 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
16		25	4		
	43			50	4
0		30	0		
	0			3	0
		29	0		
	43			53	4

CALCULATED MJL
CHECKED DMV

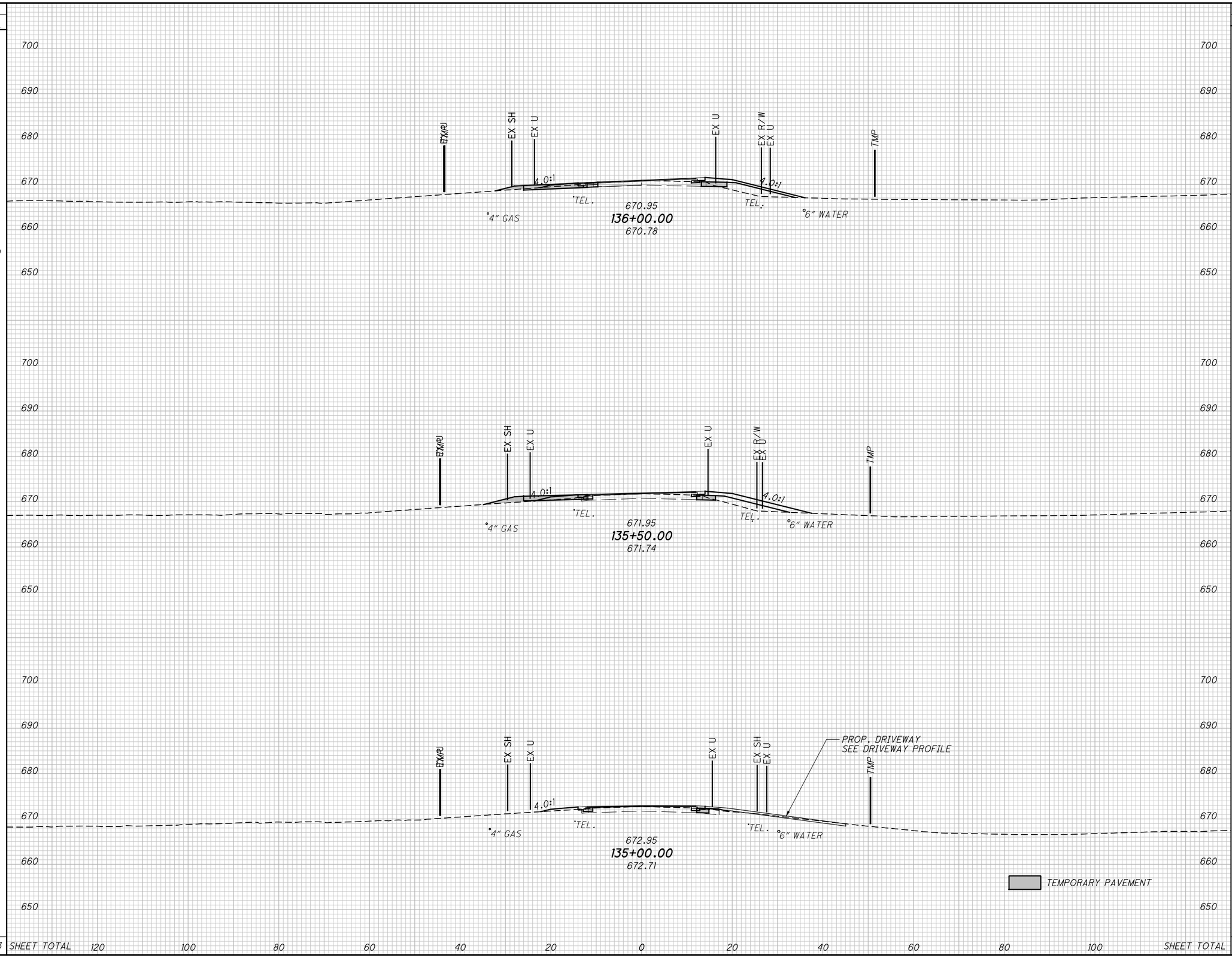


CROSS SECTIONS S.R. 159
STA. 133+96.80 TO STA. 134+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:45 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
31	180	20	38	35	77
34	117	18	45	40	46
8	66	25	5	46	8
	363			121	131



SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

CALCULATED MJL CHECKED DMV

CROSS SECTIONS S.R. 159
STA. 135+00.00 TO STA. 136+00.00

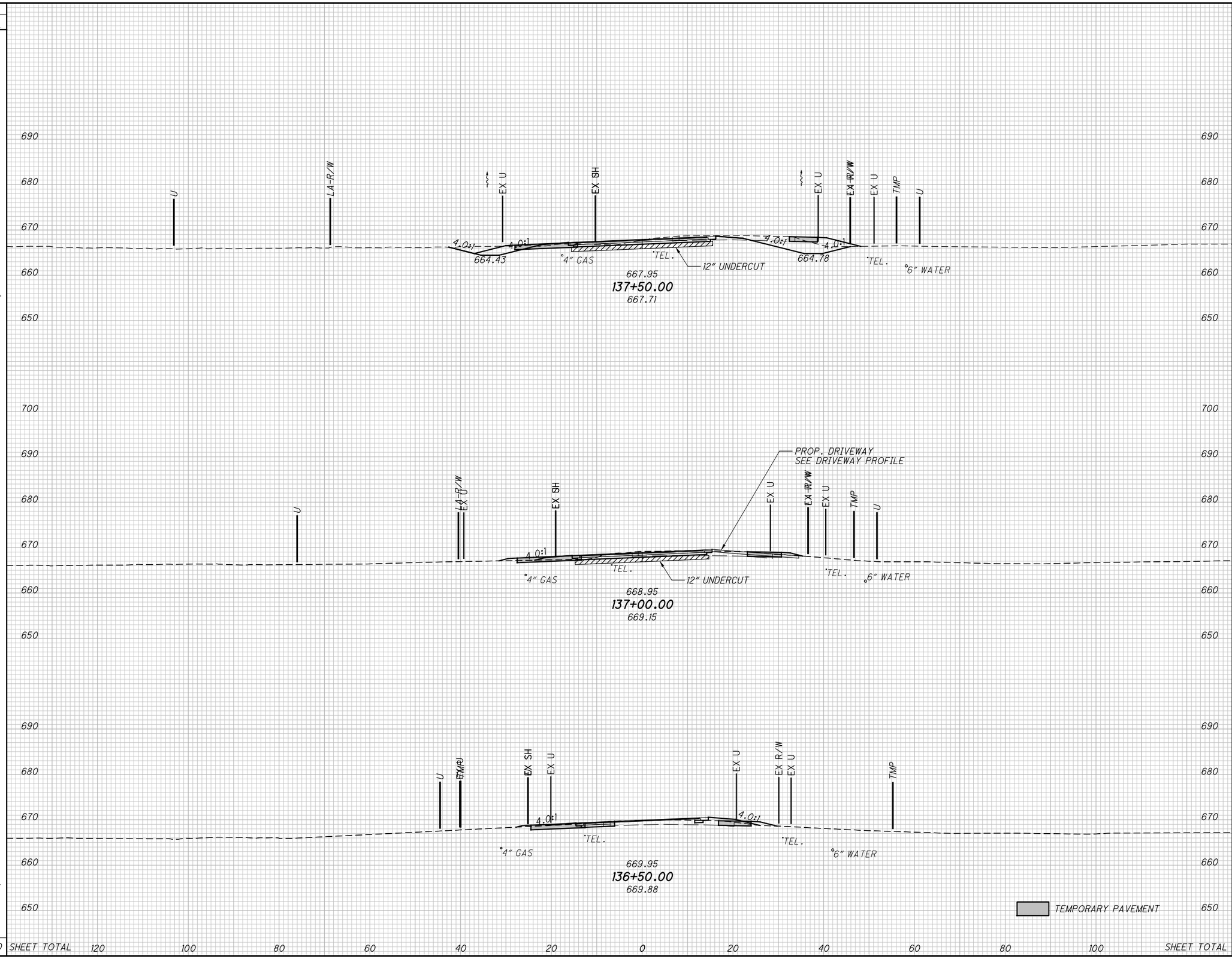
ROS-207-0.00

182
332

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:46 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
57	182	95	2	121	6
8	73	36	5	56	11
18	135	24	6	41	41
	390			218	58

CALCULATED MJL
CHECKED DMV



CROSS SECTIONS S.R. 159
STA. 136+50.00 TO STA. 137+50.00

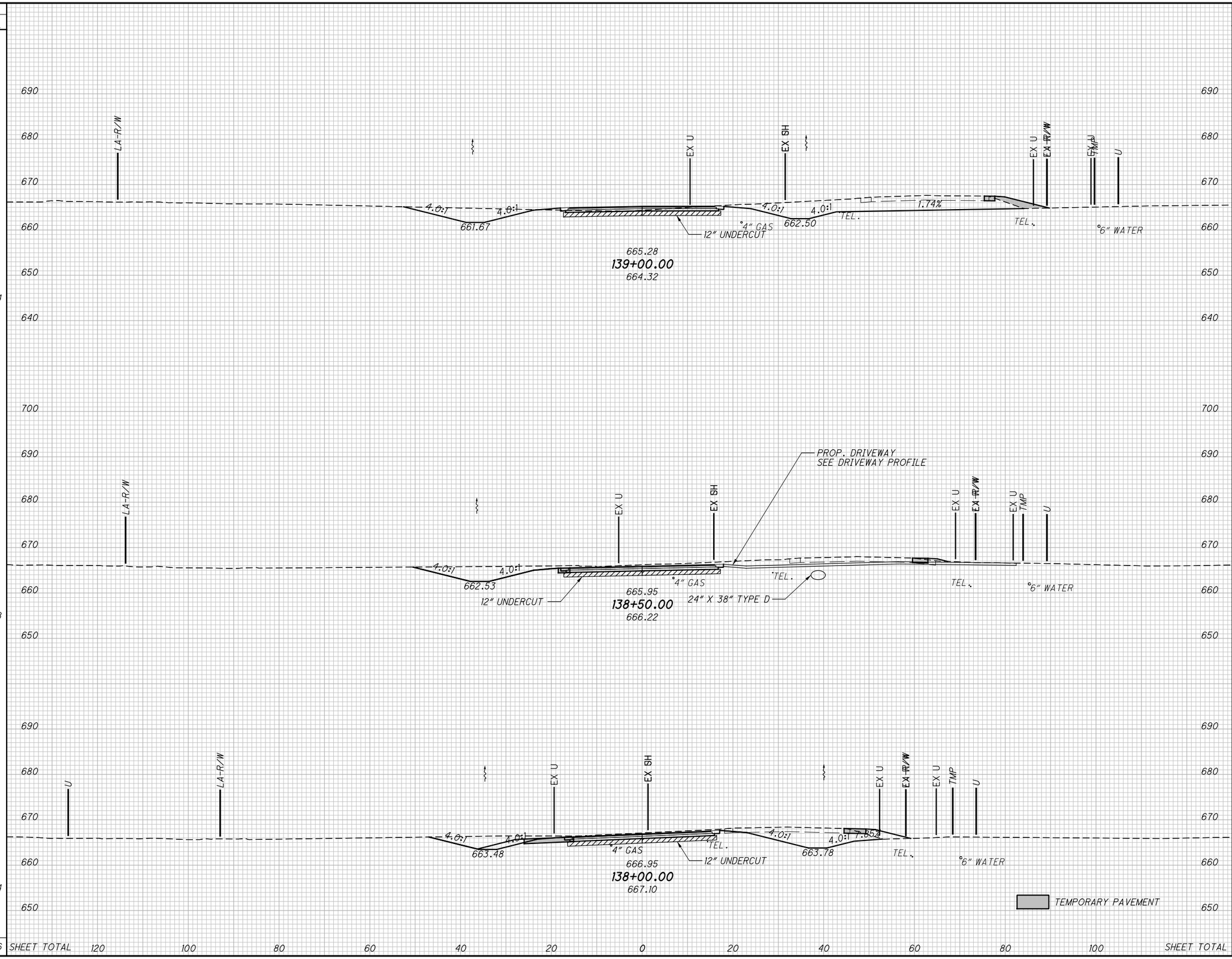
ROS-207-0.00

183
332

c:\pwworking\east01\d0244753\i93744_XS006.dgn 5/2/2019 10:09:47 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
102	374	238	1	399	1
33	278	193	0	343	0
67	344	177	0	252	2
	996			994	3

CALCULATED MJL
CHECKED DMV



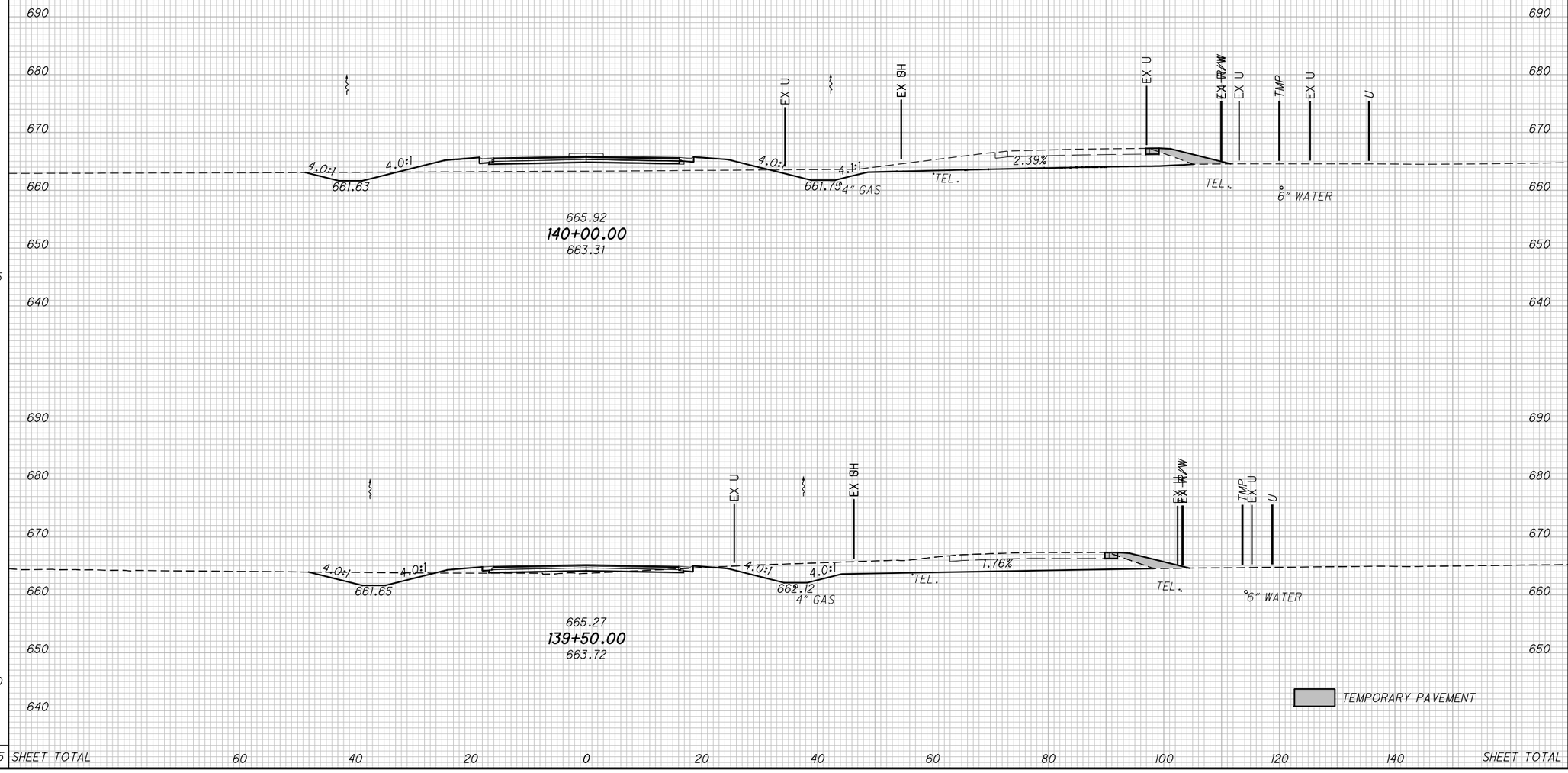
CROSS SECTIONS S.R. 159
STA. 138+00.00 TO STA. 139+00.00

ROS-207-0.00

184
332

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:47 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
118	
111	
1225	SHEET TOTAL



END AREA	
CUT	FILL
169	93
217	13

VOLUME	
CUT	FILL
357	98
421	13
778	111

CALCULATED MJL

CHECKED DMV

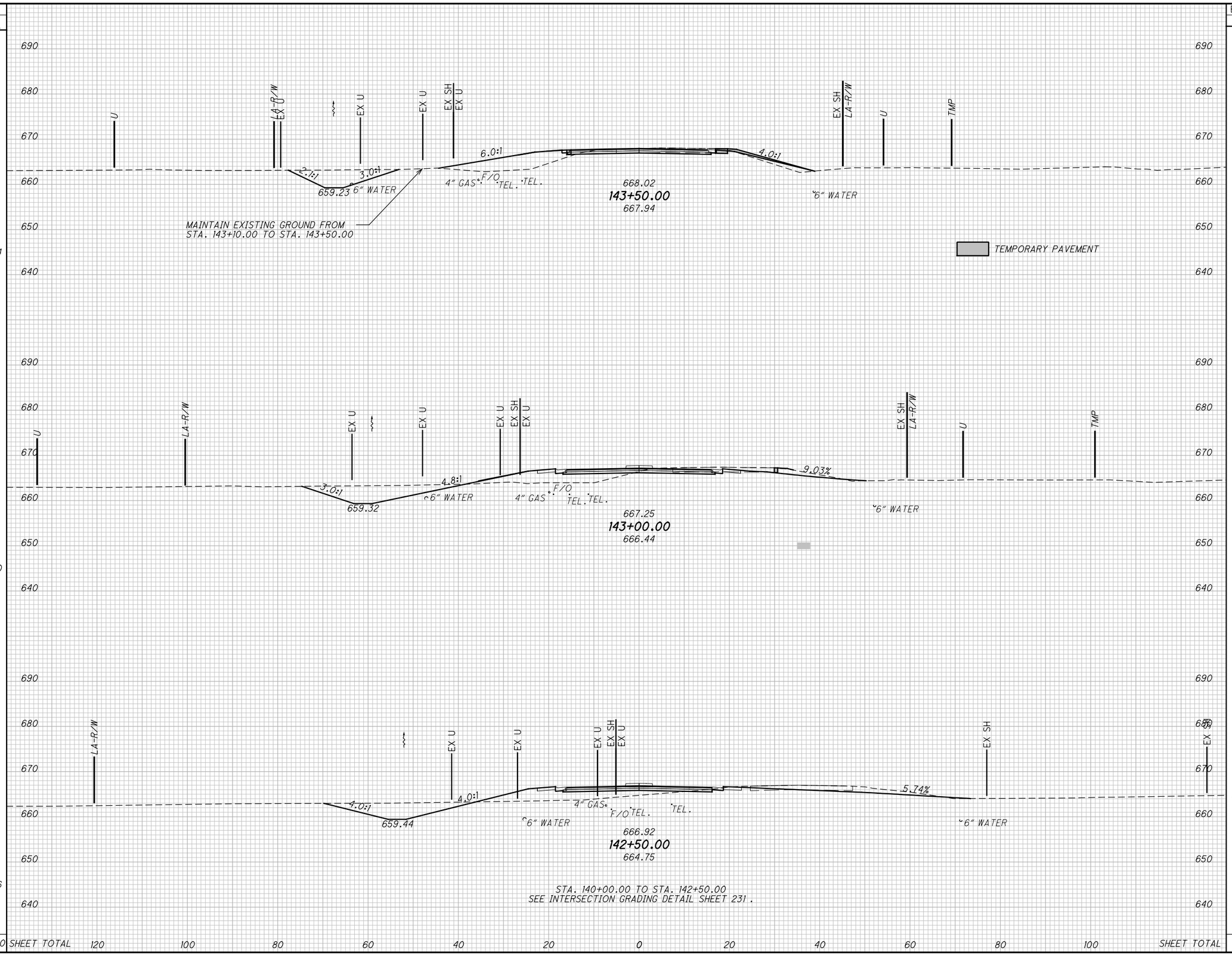
CROSS SECTIONS S.R. 159
STA. 139+50.00 TO STA. 140+00.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS006.dgn 5/2/2019 10:09:48 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
87	624	89	75	194	125
137		120	61		
107		107	70		
696				99	191
2000 SHEET TOTAL				503	437

CALCULATED MJL CHECKED DMV

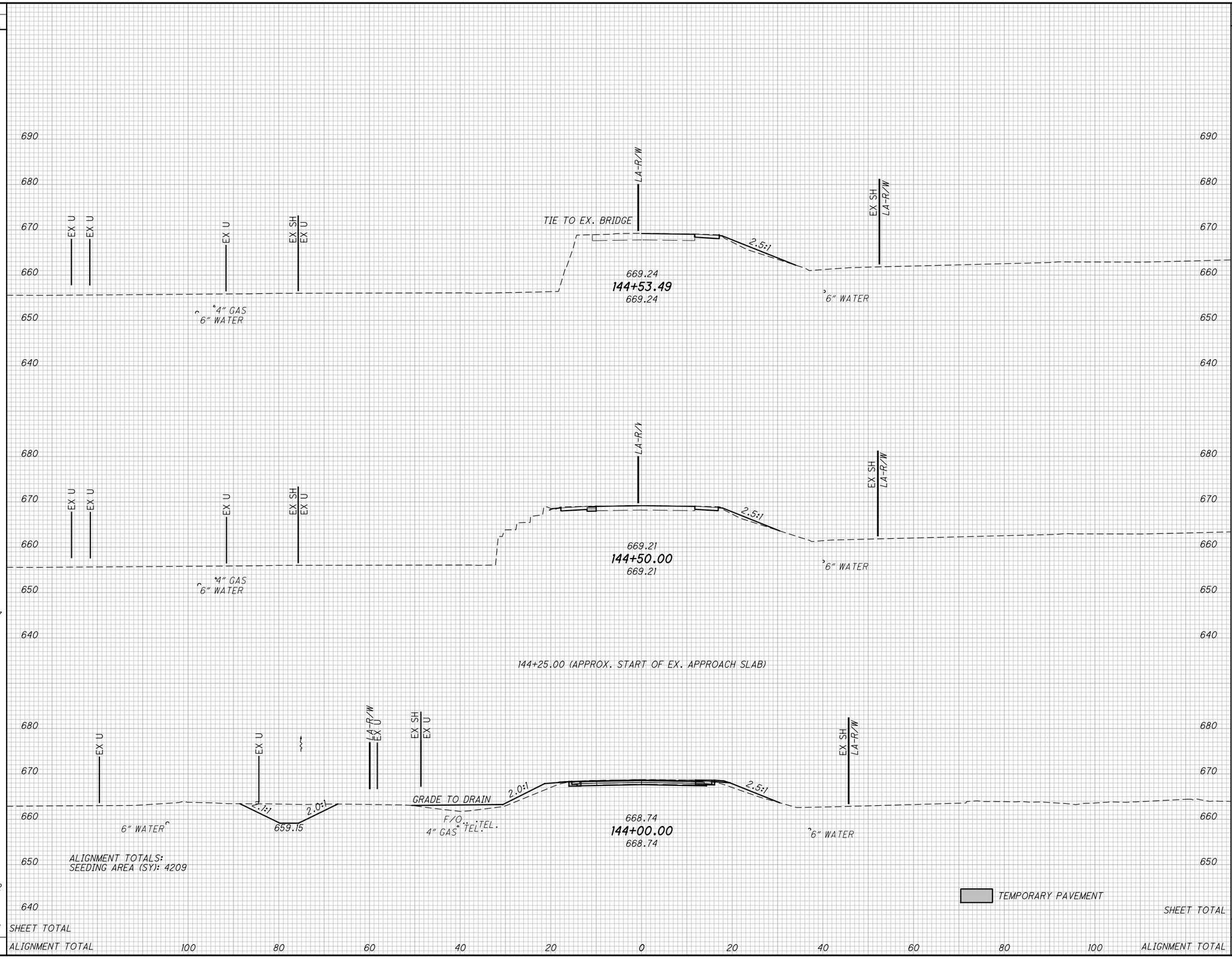


CROSS SECTIONS S.R. 159 STA. 142+50.00 TO STA. 143+50.00

ROS-207-0.00

c:\pwworking\eost01\d0244753\93744_XS004.dgn 5/2/2019 10:09:53 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
18	5
17	257
76	452
	714
	15268



END AREA	
CUT	FILL
4	8
12	5
87	37
SHEET TOTAL	
CUT VOL	
4450	

VOLUME	
CUT	FILL
1	1
92	39
163	103
256	143
FILL VOL	
7371	

CALCULATED MJL
CHECKED DMV

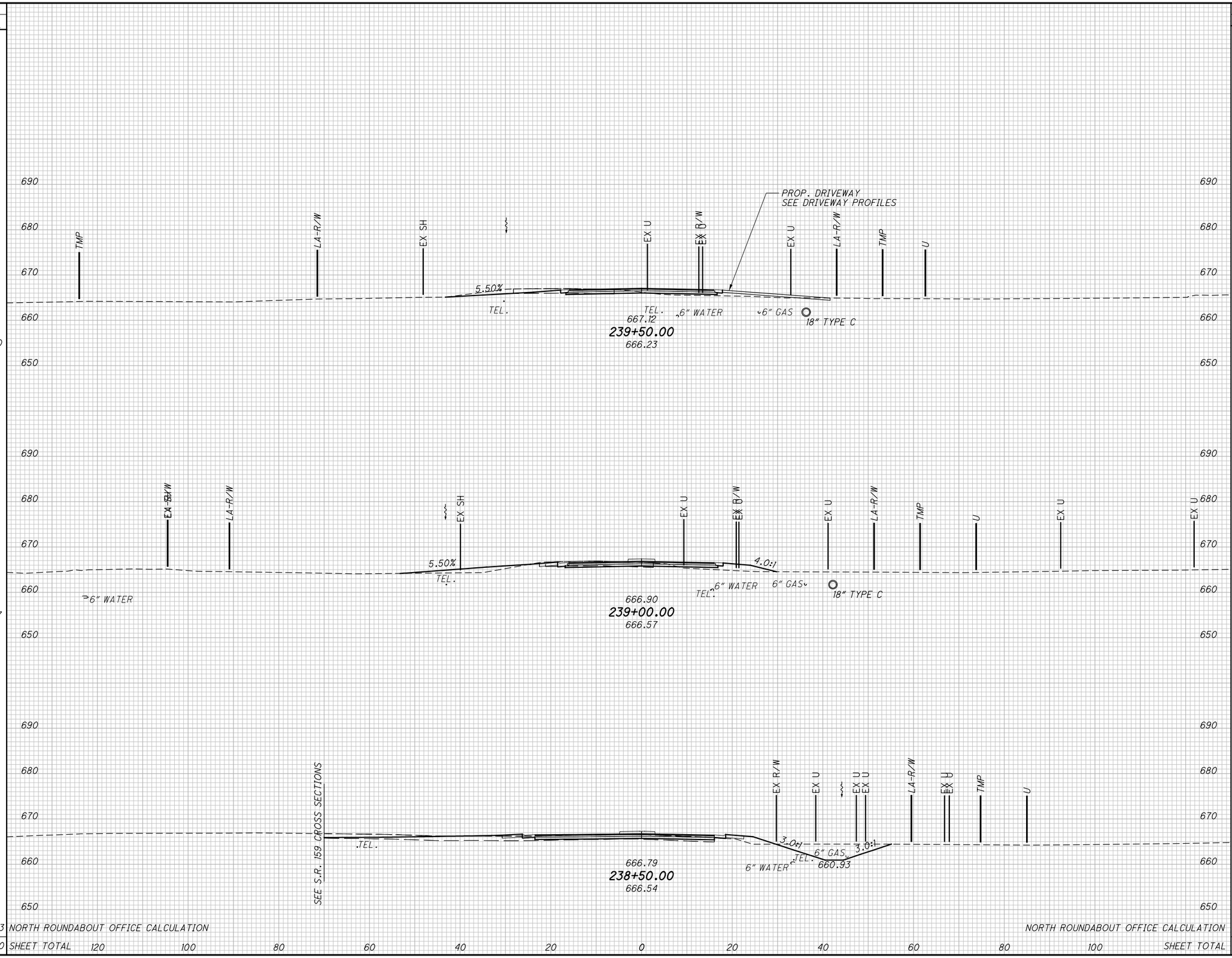
CROSS SECTIONS S.R. 159
STA. 144+00.00 TO STA. 144+53.49

ROS-207-0.00

187
332

c:\pwworking\east01\d0244753\93744_XS004.dgn 5/2/2019 10:09:54 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
25	200
47	357
0	0
2263	2820



END AREA	
CUT	FILL
32	21
26	33
98	13

VOLUME	
CUT	FILL
54	50
115	43
0	0
104	2938
273	61

NORTH ROUNDABOUT OFFICE CALCULATION

NORTH ROUNDABOUT OFFICE CALCULATION

SHEET TOTAL

SHEET TOTAL

CALCULATED MJL

CHECKED DMV

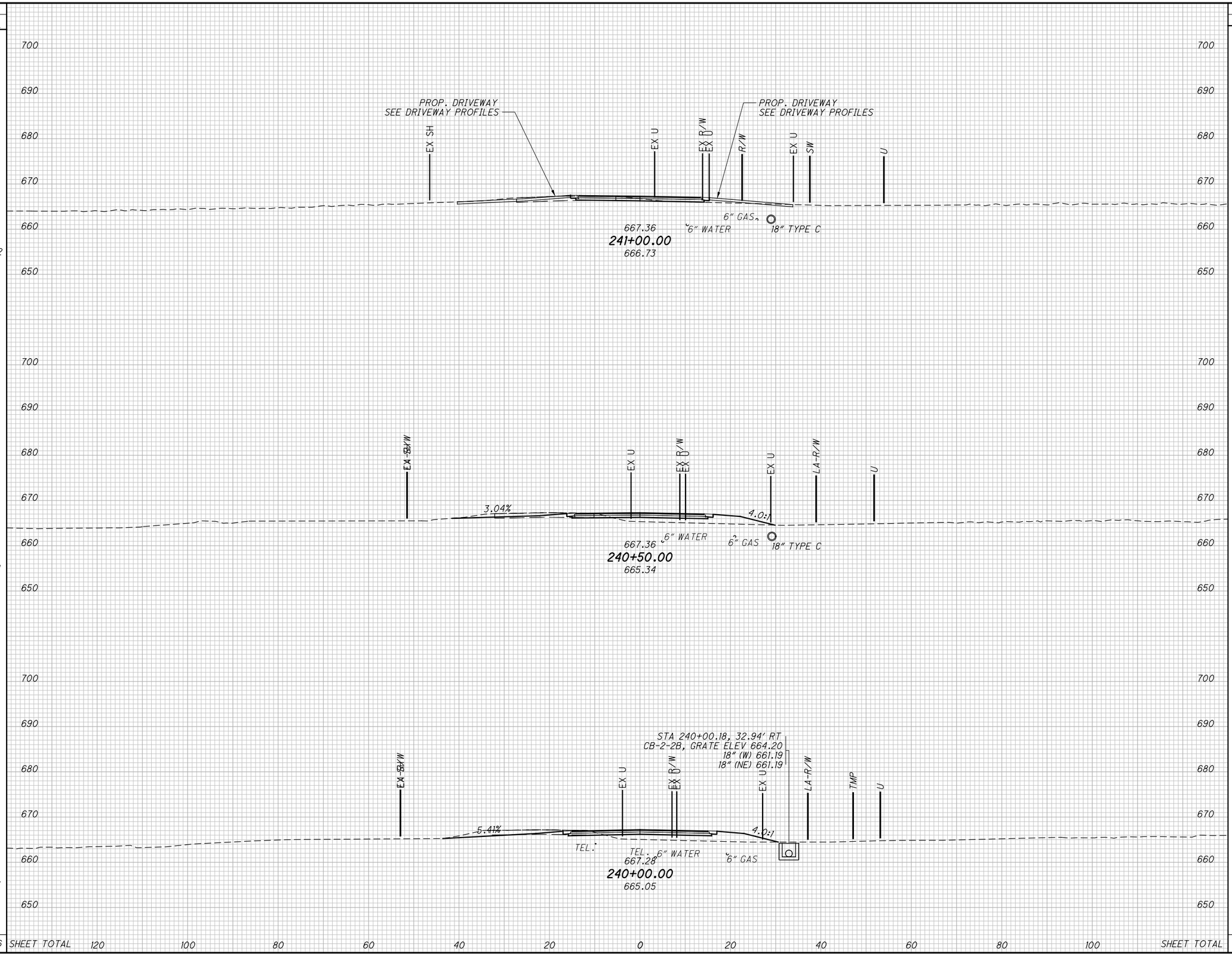
CROSS SECTIONS S.R. 180
STA. 238+50.00 TO STA. 239+50.00

ROS-207-0.00

188
332

c:\pwworking\east01\d0244753\93744_XS002.dgn 5/2/2019 10:10:03 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
33	202	15	12	34	46
39	221	22	38	47	78
40	183	29	46	56	62
	606 SHEET TOTAL			115	186



CALCULATED	CHECKED
MJL	DMV

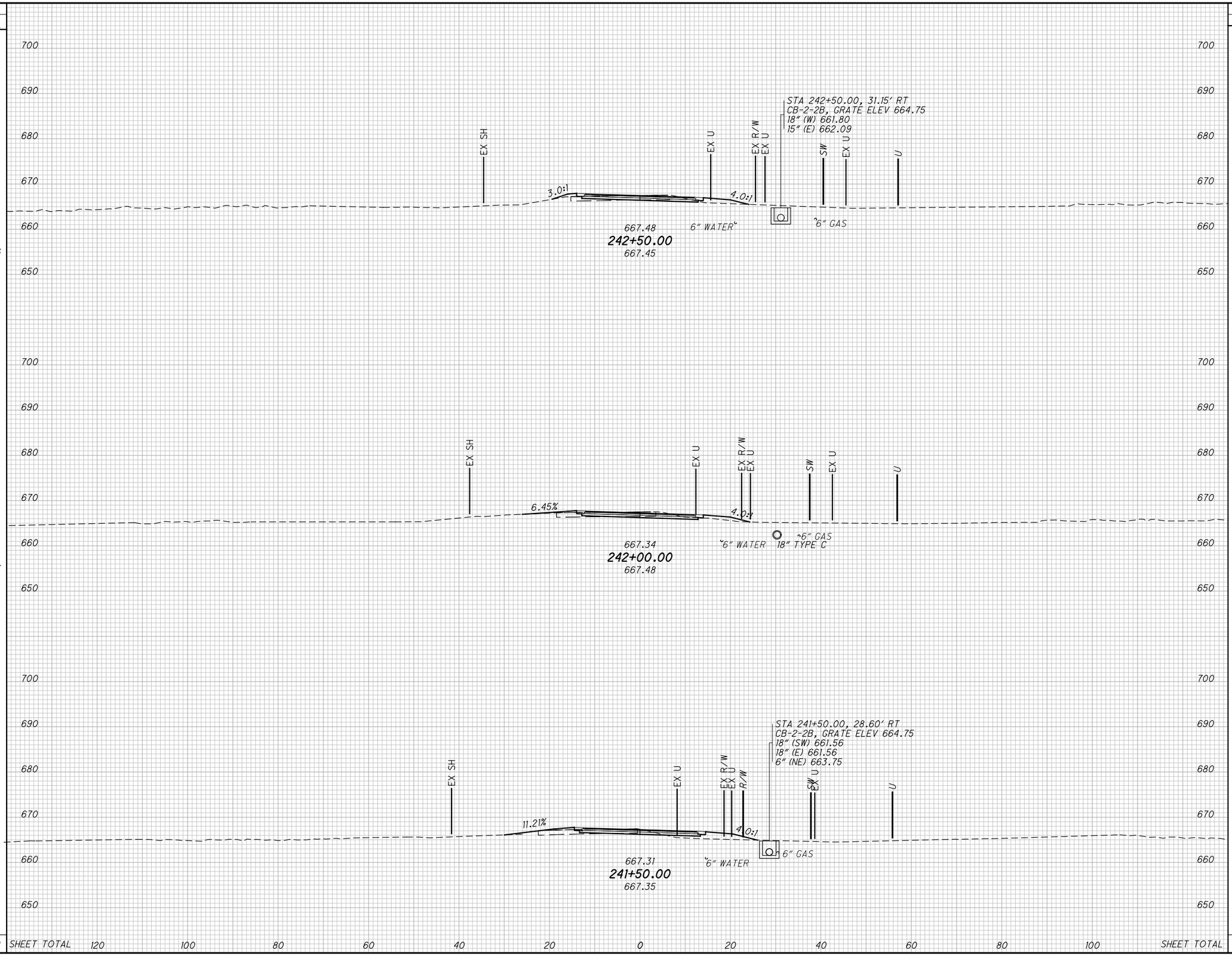
CROSS SECTIONS S.R. 180
STA. 240+00.00 TO STA. 241+00.00

ROS-207-0.00

189
332

c:\pwworking\east01\d0244753\93744_XS002.dgn 5/2/2019 10:10:04 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
16	106
22	137
27	167
	410



END AREA	
CUT	FILL
23	10
25	8
16	19

VOLUME	
CUT	FILL
44	17
38	25
29	28
111	70

CALCULATED MJL
CHECKED DMV

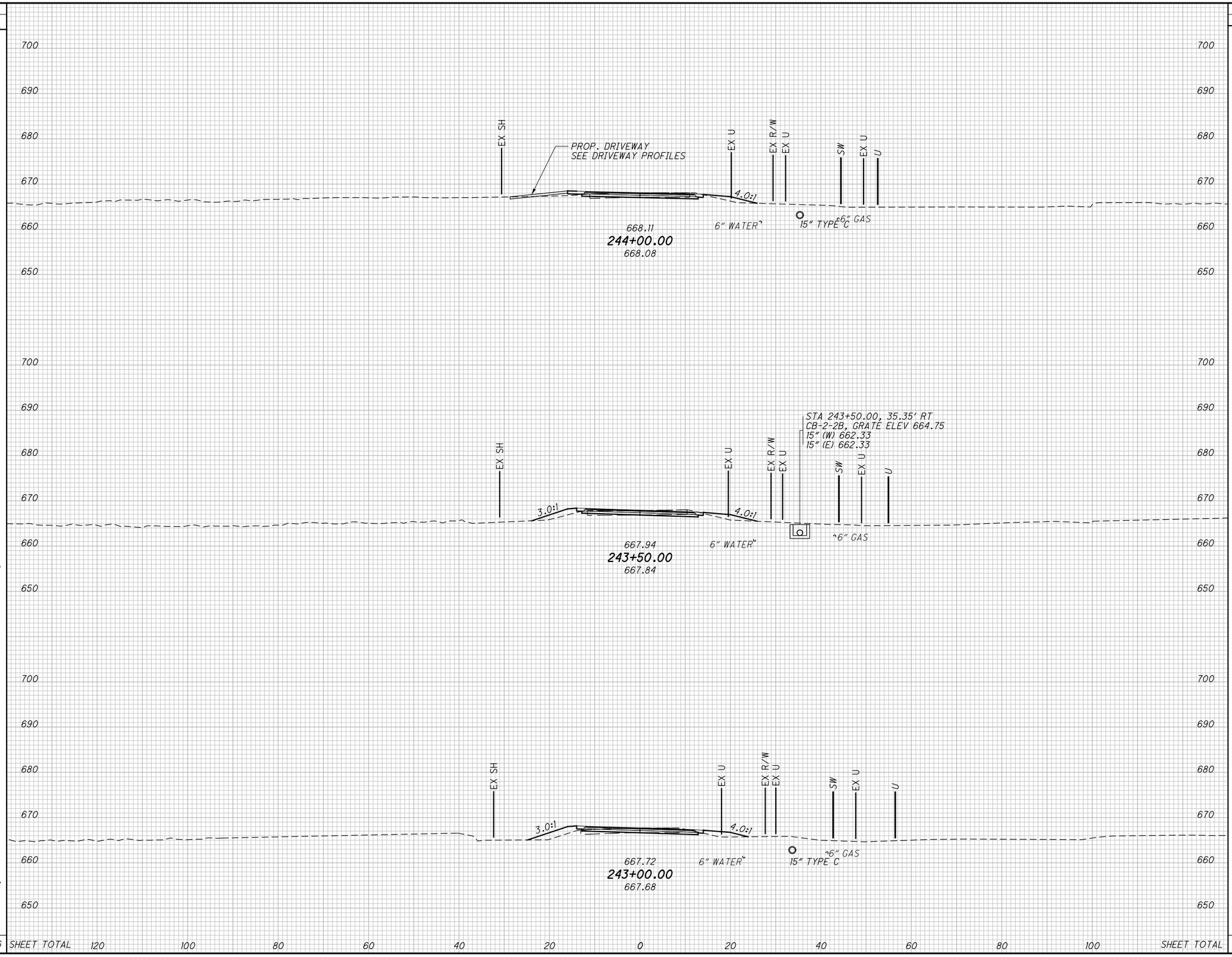
CROSS SECTIONS S.R. 180
STA. 241+50.00 TO STA. 242+50.00

ROS-207-0.00

190
332

c:\pwworking\east01\d0244753\93744_XS002.dgn 5/2/2019 10:10:04 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.
14	101
22	122
21	103
	326



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
26	14		
		48	29
26	17		
		45	35
23	21		
		42	29
		135	93

CALCULATED MJL
CHECKED DMV

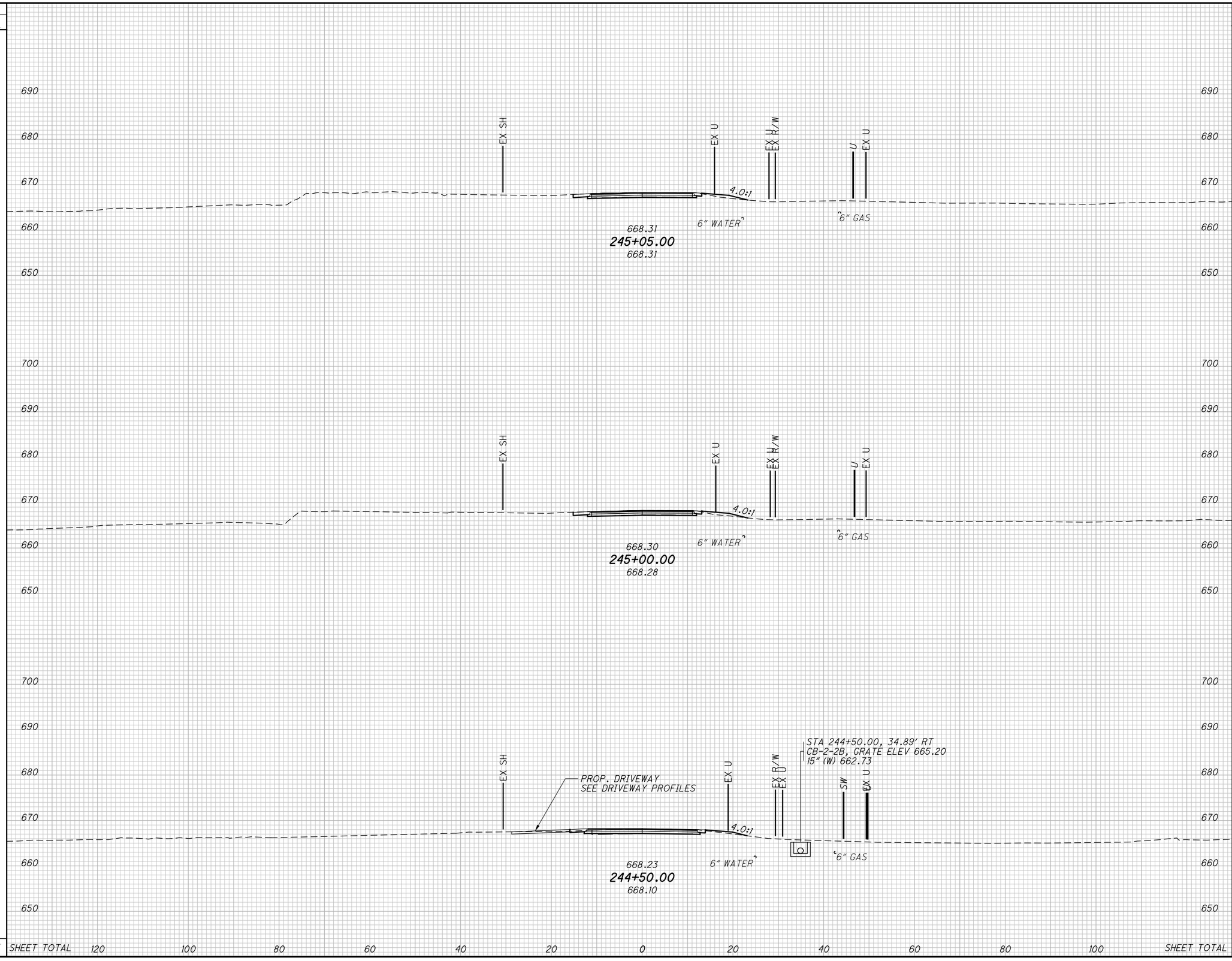
CROSS SECTIONS S.R. 180
STA. 243+00.00 TO STA. 244+00.00

ROS-207-0.00

191
332

c:\pwworking\east01\d0244753\93744_XS002.dgn 5/2/2019 10:10:04 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
10	6
10	54
9	65
SHEET TOTAL	125



END AREA	
CUT	FILL
29	4
29	4
25	5
SHEET TOTAL	

VOLUME	
CUT	FILL
5	1
49	8
47	18
101	27

CALCULATED MJL
CHECKED DMV

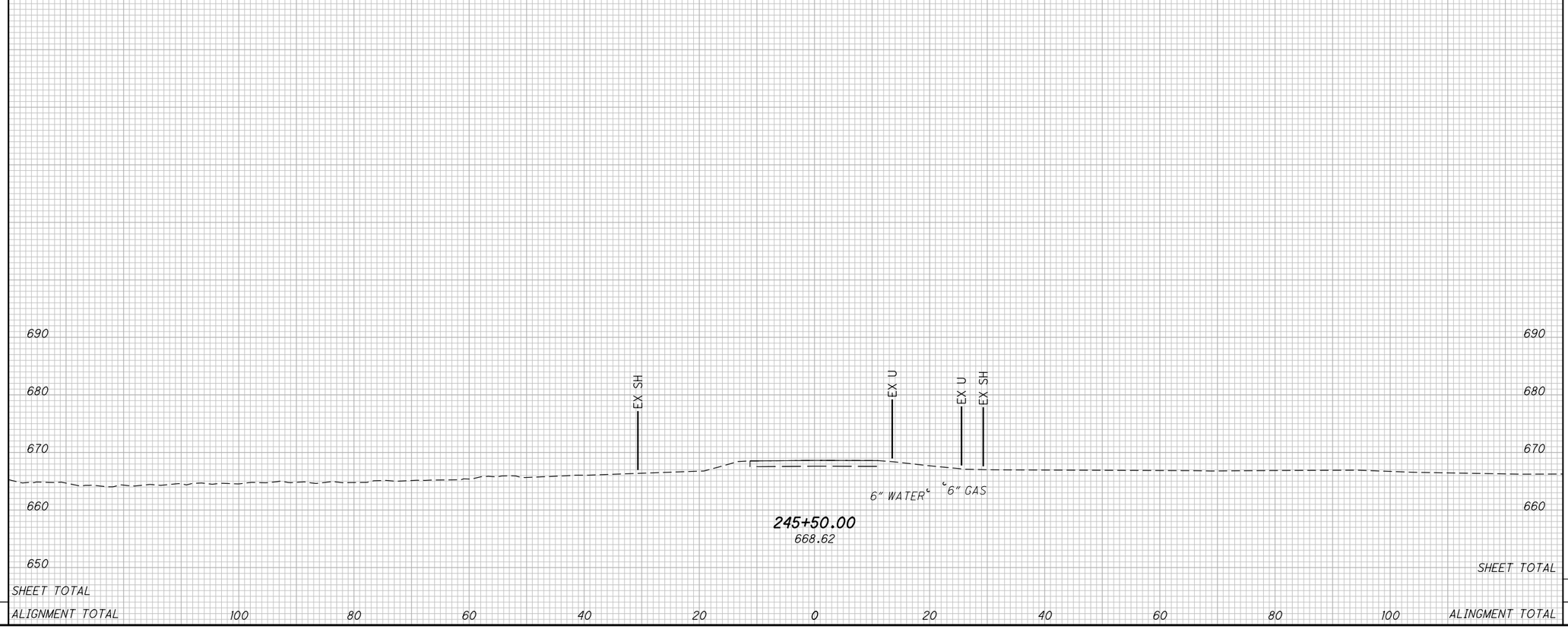
CROSS SECTIONS S.R. 180
STA. 244+50.00 TO STA. 245+05.00

ROS-207-0.00

192
332

c:\pwworking\east01\d0244753\i93744_XS002.dgn 5/2/2019 10:10:04 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
0	SHEET TOTAL
4287	ALIGNMENT TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	0
CUT VOL		FILL VOL	
735		3314	

CALCULATED MJL
CHECKED DMV

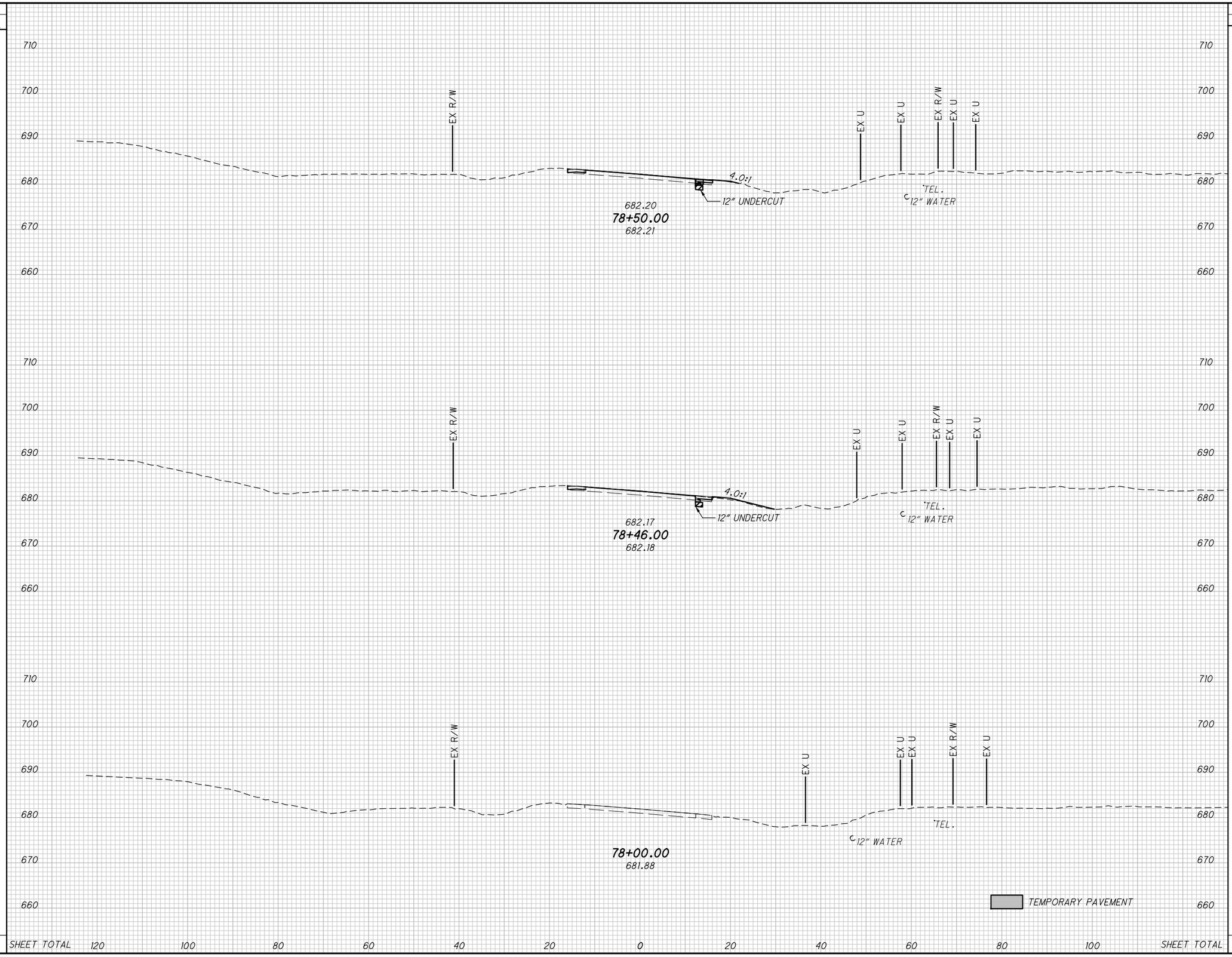
CROSS SECTIONS S.R. 180
STA. 245+50.00

ROS-207-0.00

193
332

c:\pwworking\east01\d0244753\93744_XS002.dgn 5/2/2019 10:10:05 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6	4	5	0	1	0
14	0	5	3	0	0
	4			1	0



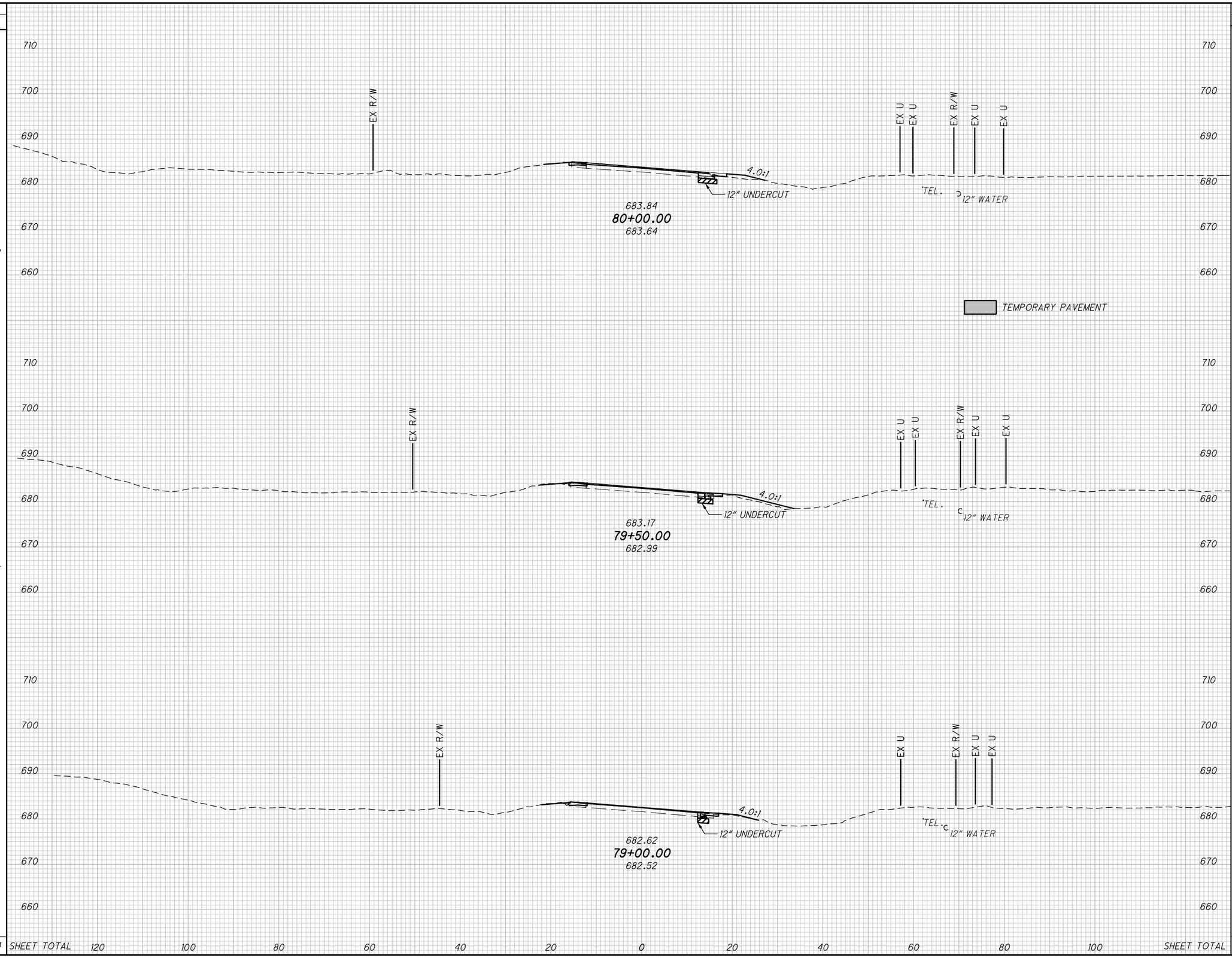
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD. STA. 78+00.00 TO STA. 78+50.00

ROS-207-0.00

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:18 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
14	102	6	5	11	11
23	105	6	8	11	9
15	57	6	2	10	2
	264			32	22



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD.
STA. 79+00.00 TO STA. 80+00.00

ROS-207-0.00

195
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:19 AM MLORENZ

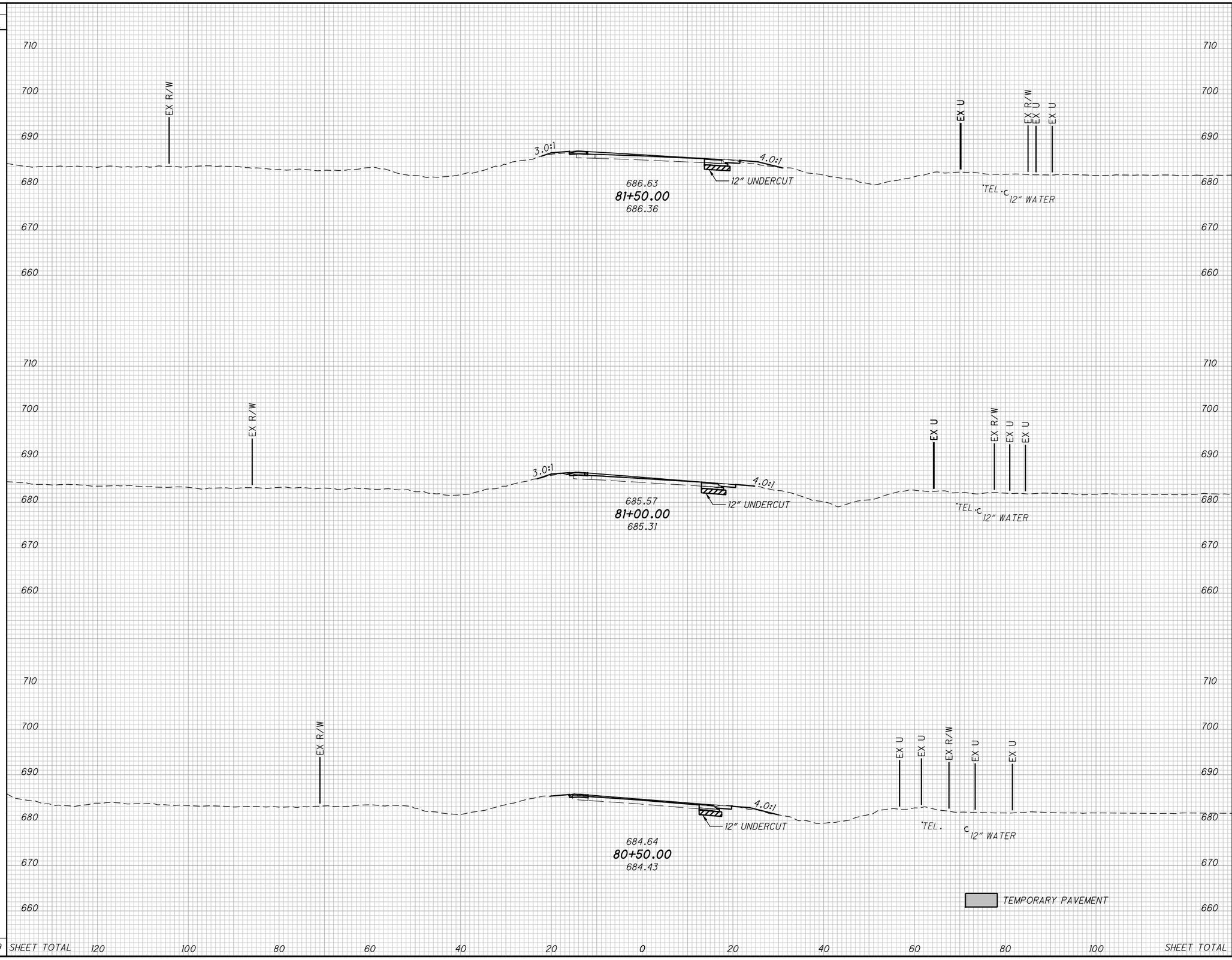
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
16	76	9	5	16	6
11	73	9	2	16	3
15	80	9	2	13	6
	229			45	15

CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD. STA. 80+50.00 TO STA. 81+50.00

ROS-207-0.00

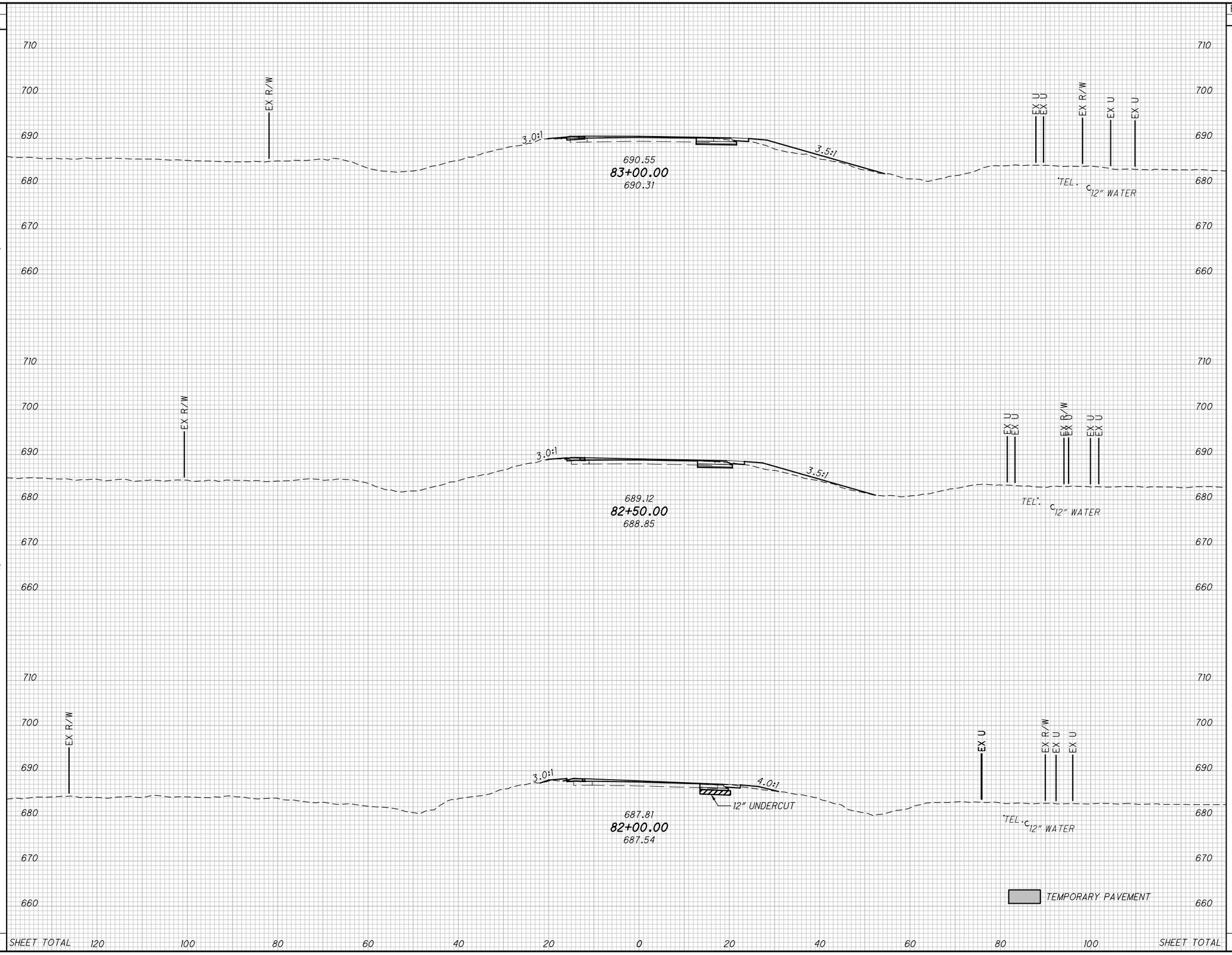
196
332



c:\pwworking\east01\d0244753\i93744_XS005.dgn 5/2/2019 10:10:19 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
35	194	12	24	21	38
34	136	11	18	19	21
15	84	10	5	17	9
	414			57	68

CALCULATED MJL
CHECKED DMV



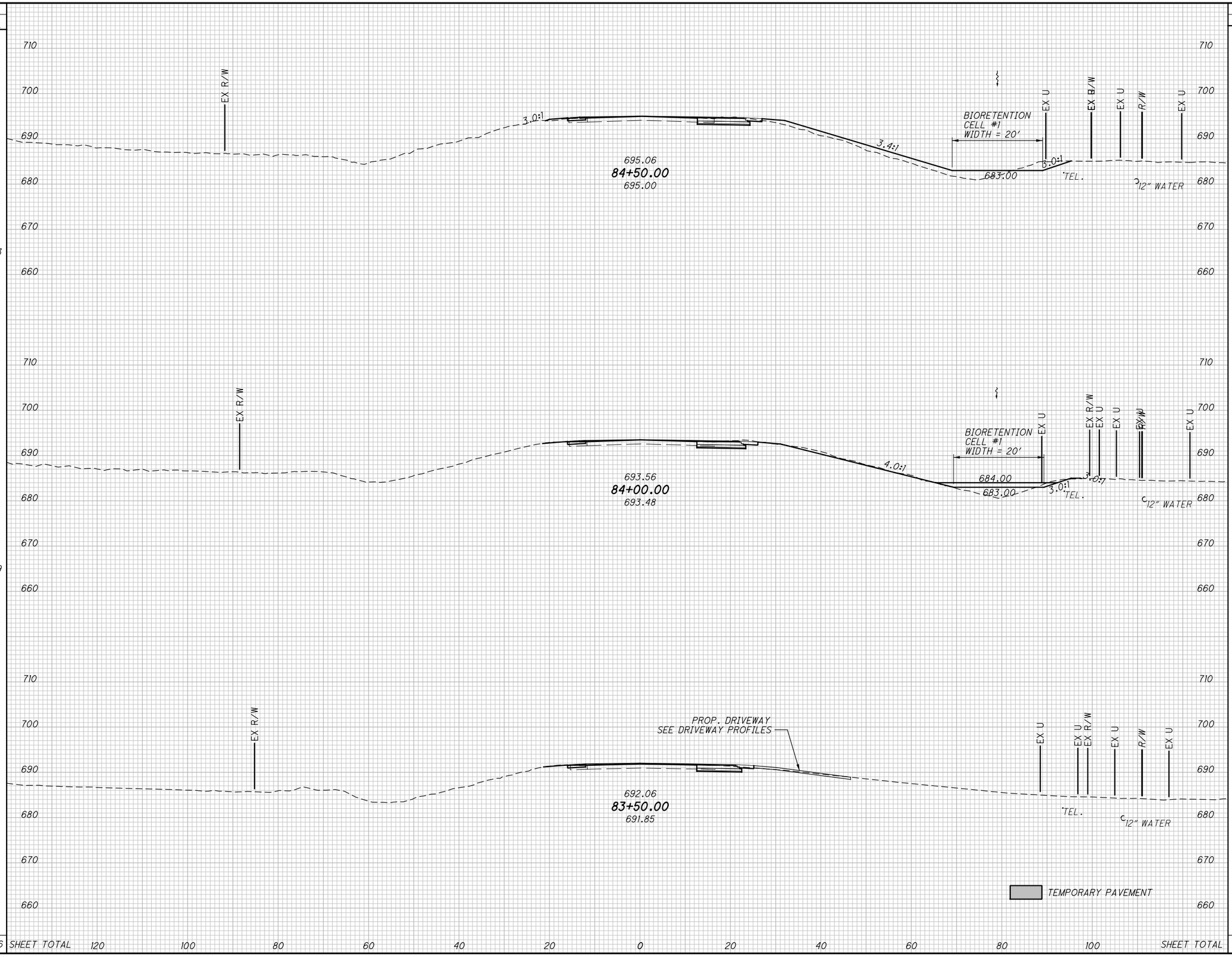
CROSS SECTIONS HOSPITAL RD.
STA. 82+00.00 TO STA. 83+00.00

ROS-207-0.00

197
332

c:\pwworking\eost01\d0244753\93744_XS005.dgn 5/2/2019 10:10:20 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
75	653	33	60	59	98
160	459	30	46	47	43
5	114	20	0	30	22
	1226			136	163



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD.
STA. 83+50.00 TO STA. 84+50.00

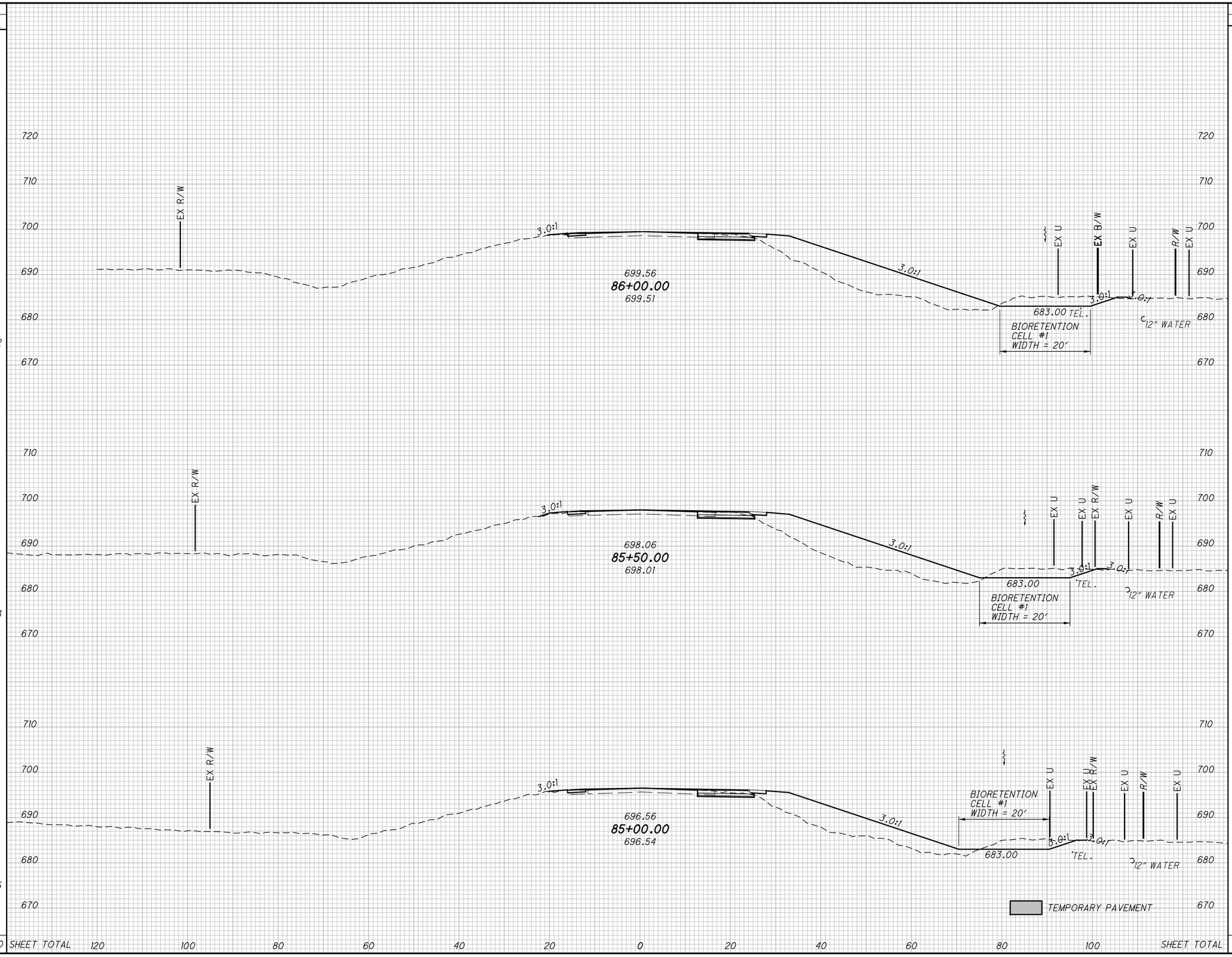
ROS-207-0.00

198
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:20 AM MLORENZ

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
88	492	61	242	109	434
89	463	57	227	98	370
77	425	48	172	75	215
	1380 SHEET TOTAL			282	1019

CALCULATED MJL CHECKED DMV



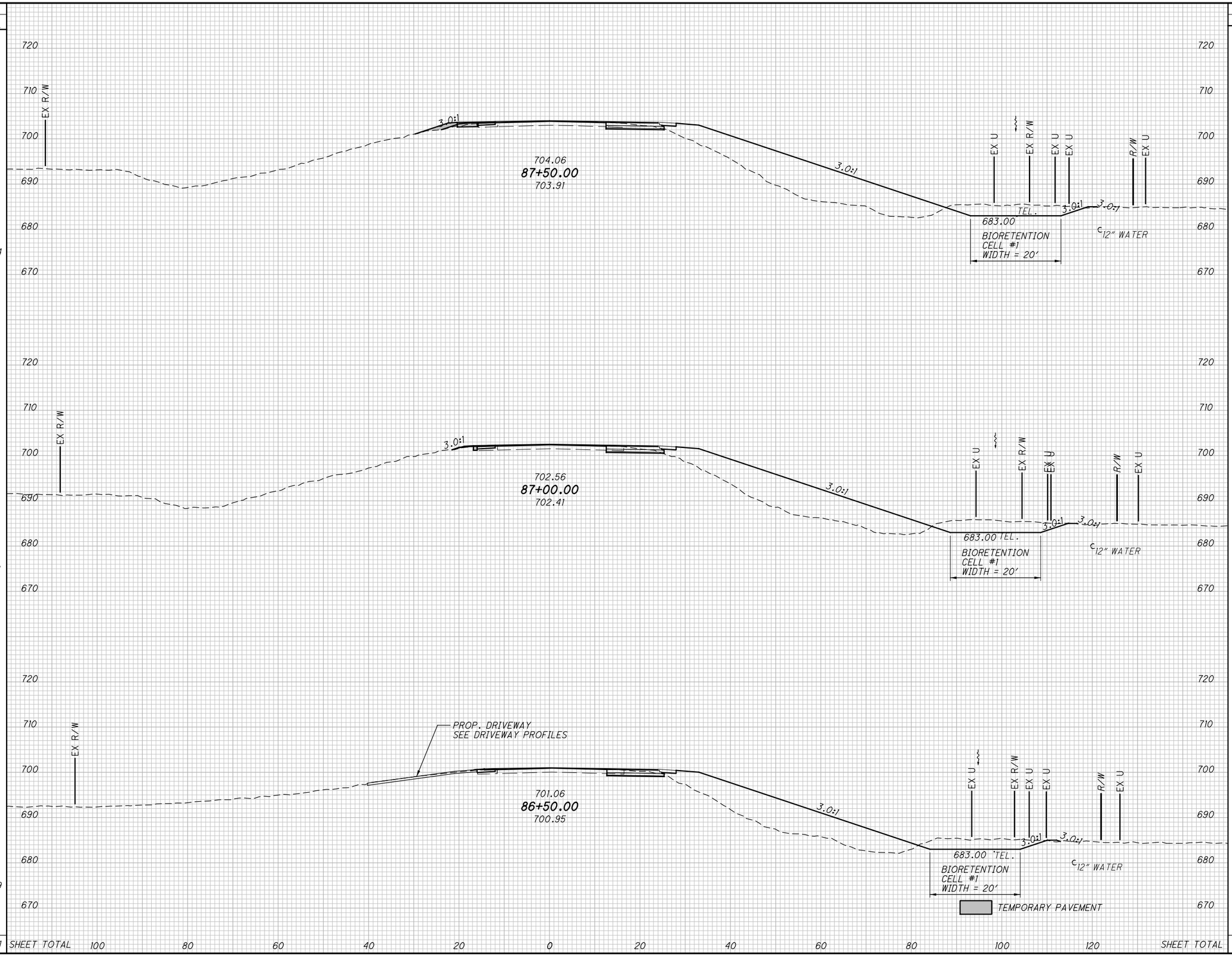
CROSS SECTIONS HOSPITAL RD. STA. 85+00.00 TO STA. 86+00.00

ROS-207-0.00

199
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:20 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
105	564	75	346	142	602
98	518	78	305	146	536
88	489	80	275	130	479
	1571 SHEET TOTAL			418	1617



CALCULATED MJL
CHECKED DMV

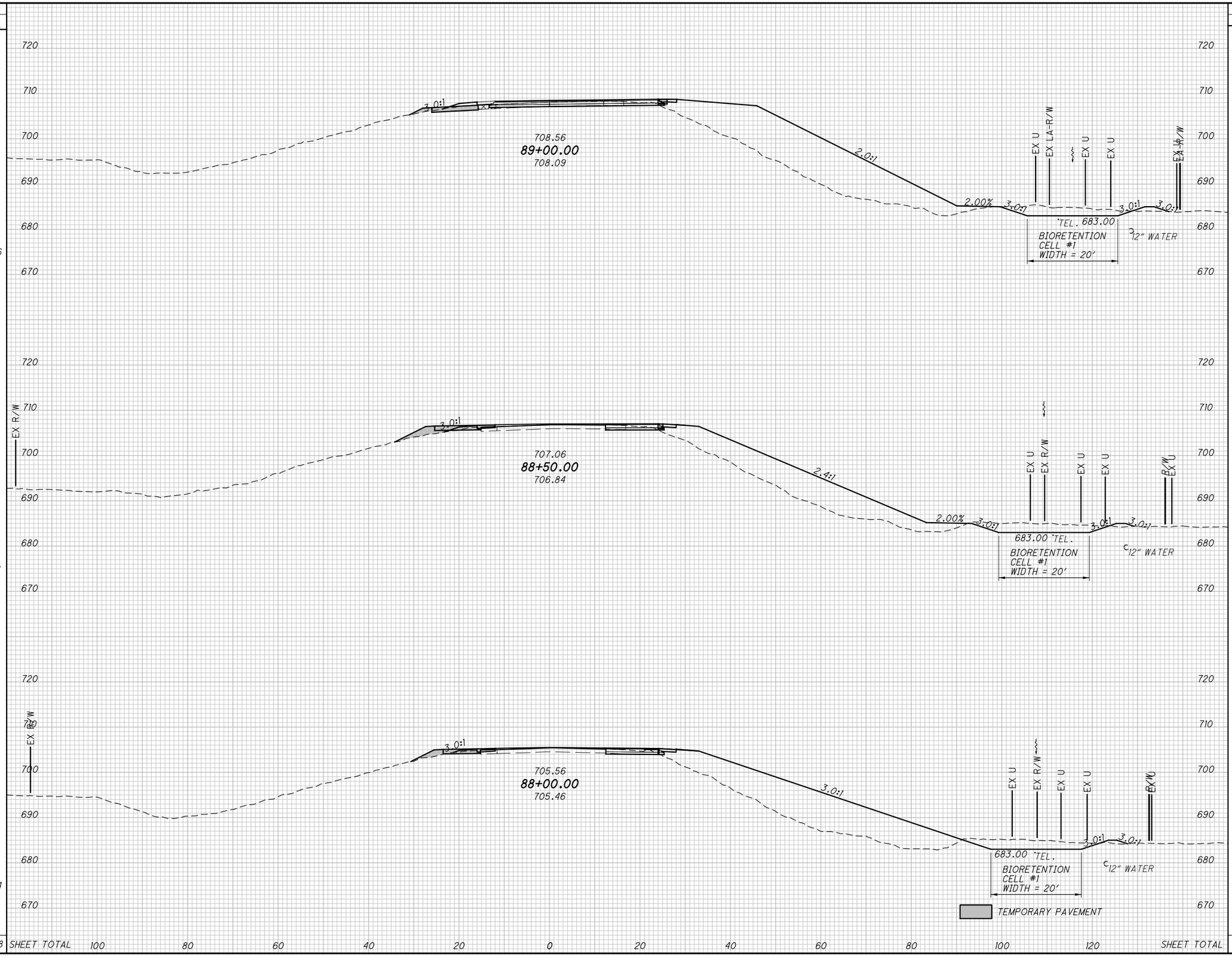
CROSS SECTIONS HOSPITAL RD.
STA. 86+50.00 TO STA. 87+50.00

ROS-207-0.00

200
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:21 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
123	656	75	484	125	728
114	618	60	303	111	644
109	594	61	393	126	684
	1868			362	2056



CALCULATED MJL
CHECKED DMV

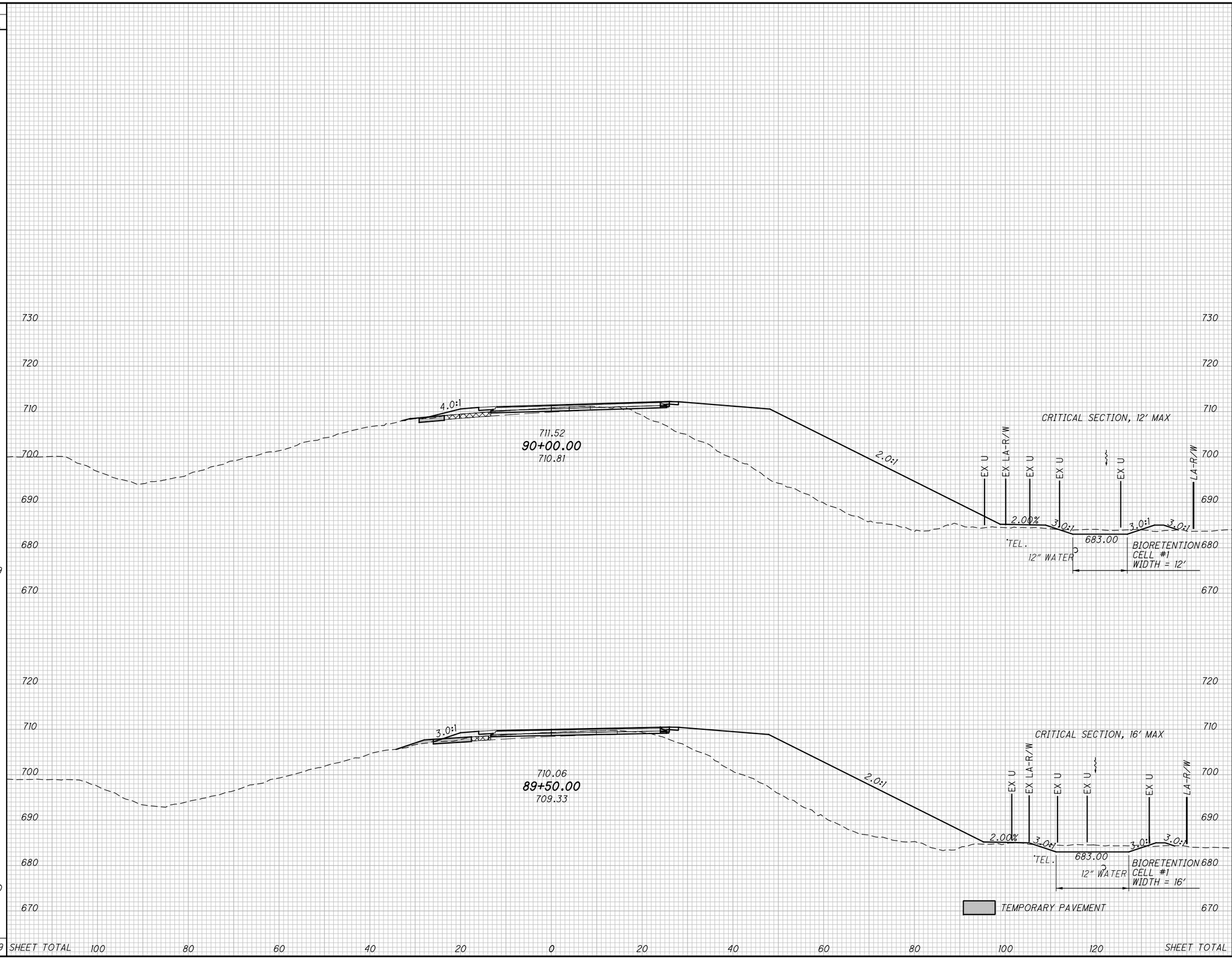
CROSS SECTIONS HOSPITAL RD. STA. 88+00.00 TO STA. 89+00.00

ROS-207-0.00

201
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:46 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
130	
	709
126	
690	
	1399



END AREA	
CUT	FILL
31	823
52	608
117	1011

VOLUME	
CUT	FILL
77	1325
194	2336

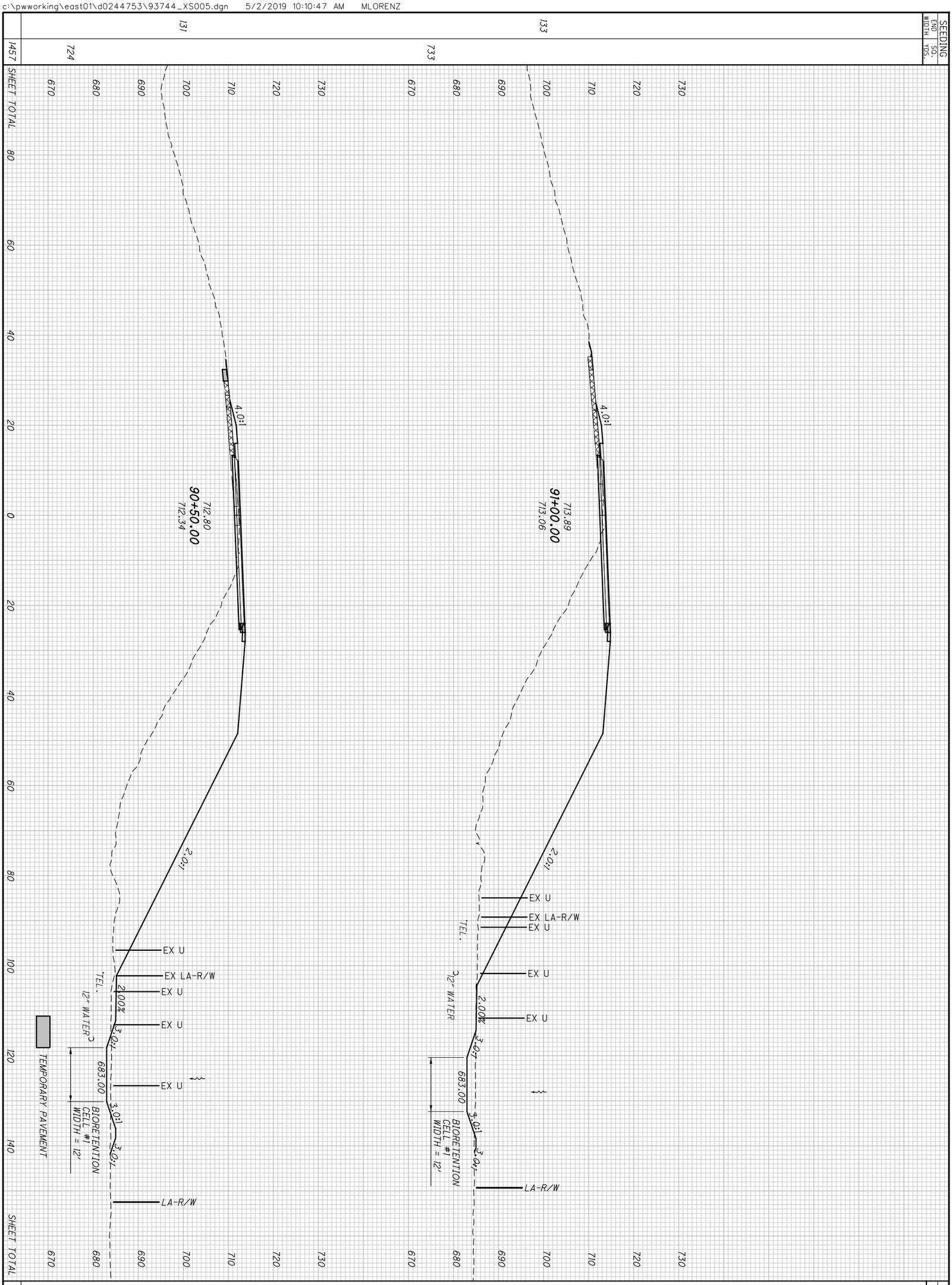
CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD.
STA. 89+50.00 TO STA. 90+00.00

ROS-207-0.00

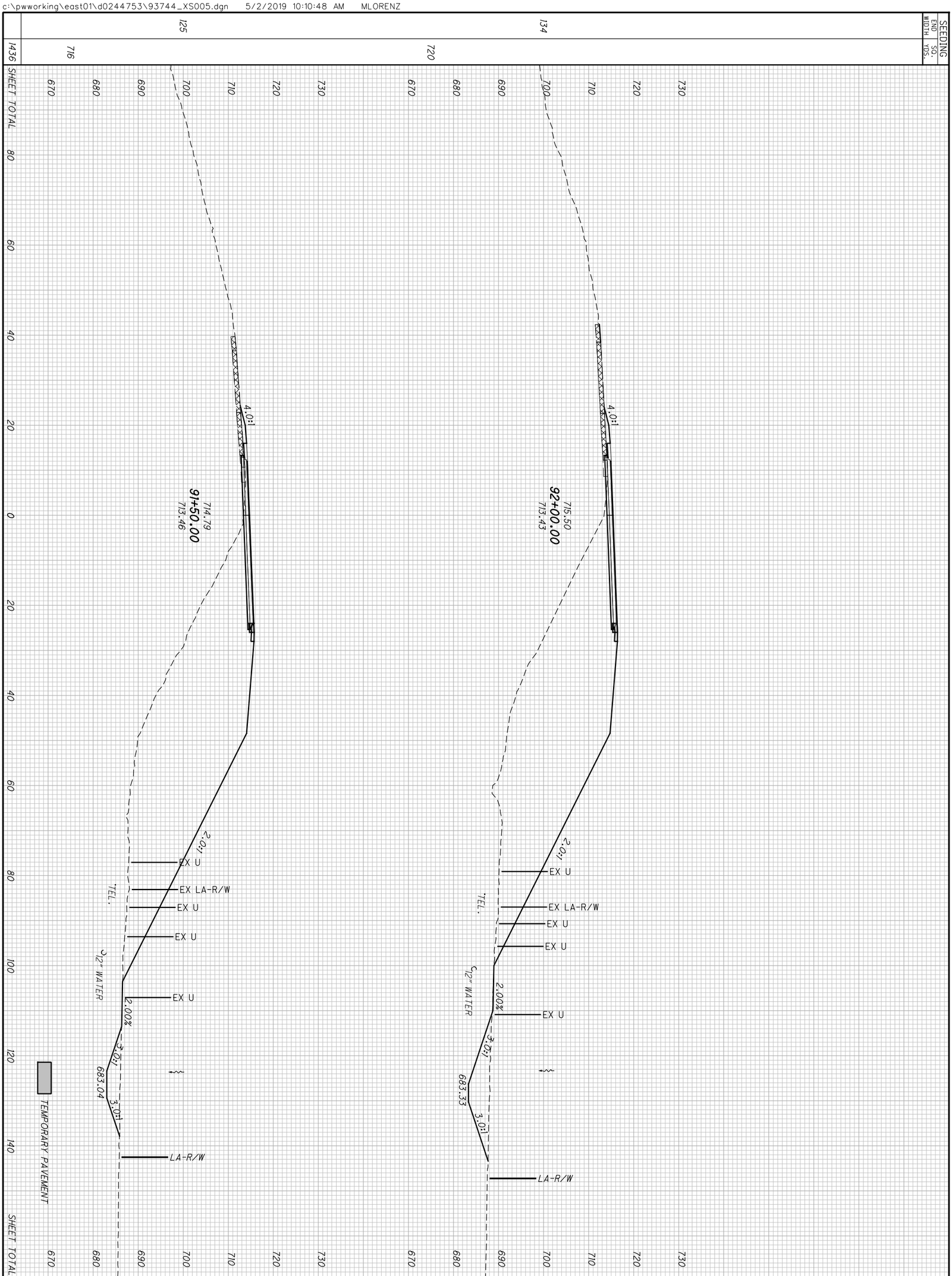
c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:47 AM MLORENZ

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:47 AM MLORENZ



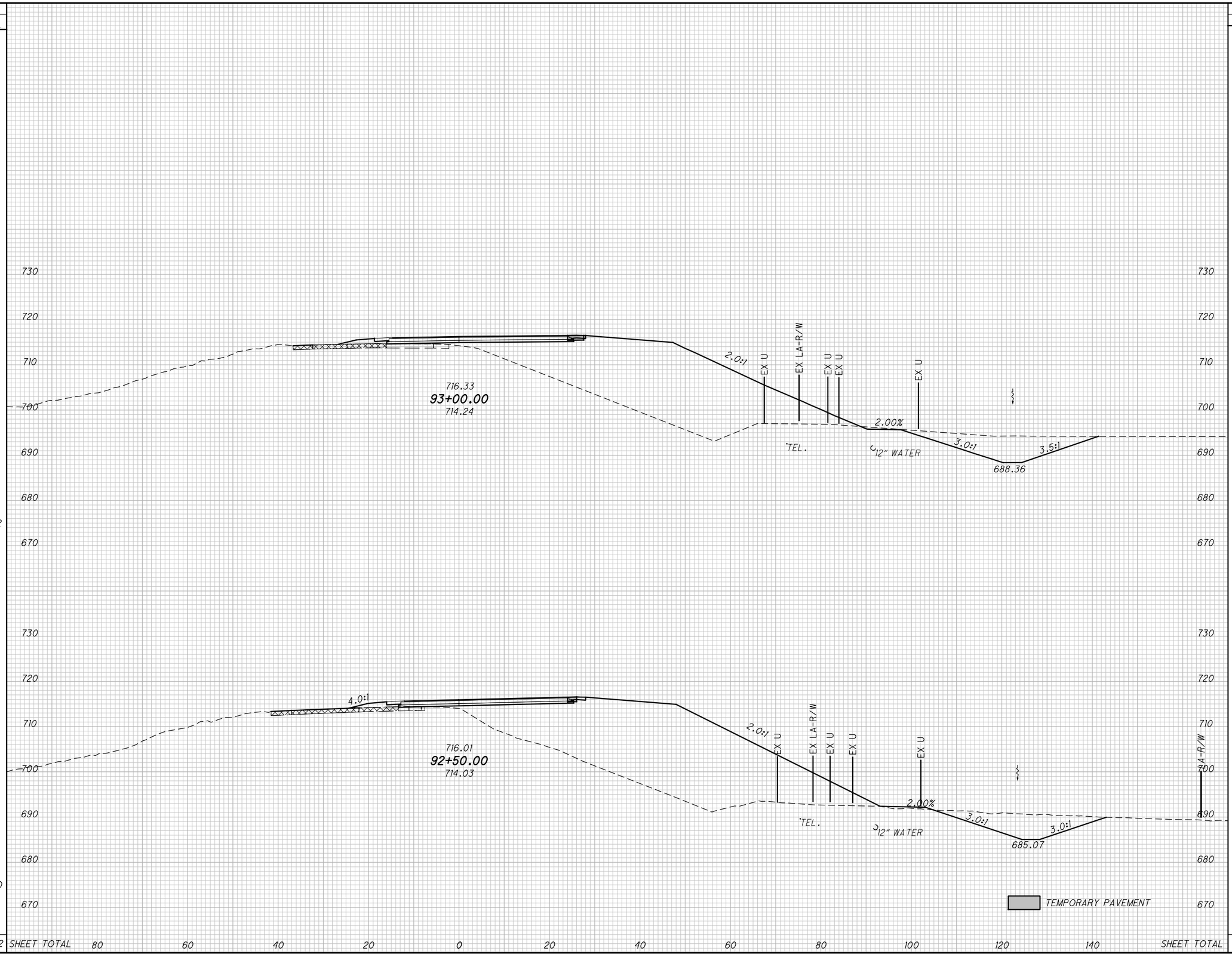
| | | |

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:48 AM MLORENZ



204/332	ROS-207-0.00	CROSS SECTIONS HOSPITAL RD. STA. 91+50.00 TO STA. 92+00.00	CALCULATED MJL / CHECKED DMV

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	MJL	DMV
132		136	846				
154		118	1293				
	1592			426	3954		



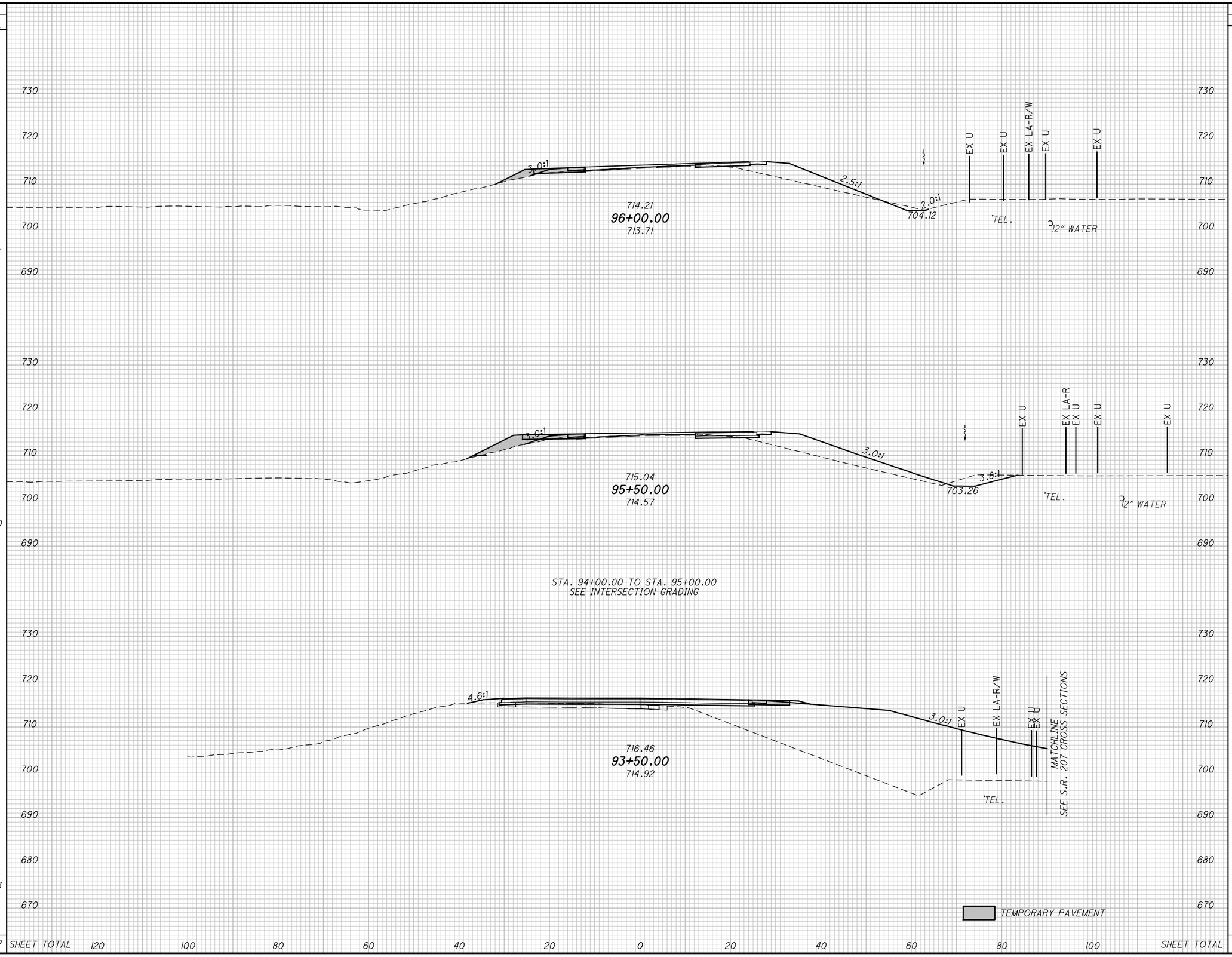
CROSS SECTIONS HOSPITAL RD.
STA. 92+50.00 TO STA. 93+00.00

ROS-207-0.00

205
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:48 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.
46	314
67	690
71	563
	1567



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
7	68		
		31	161
27	105		
		30	393
6	814		
		131	1537
		192	2091

SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

CALCULATED MJL
CHECKED DMV

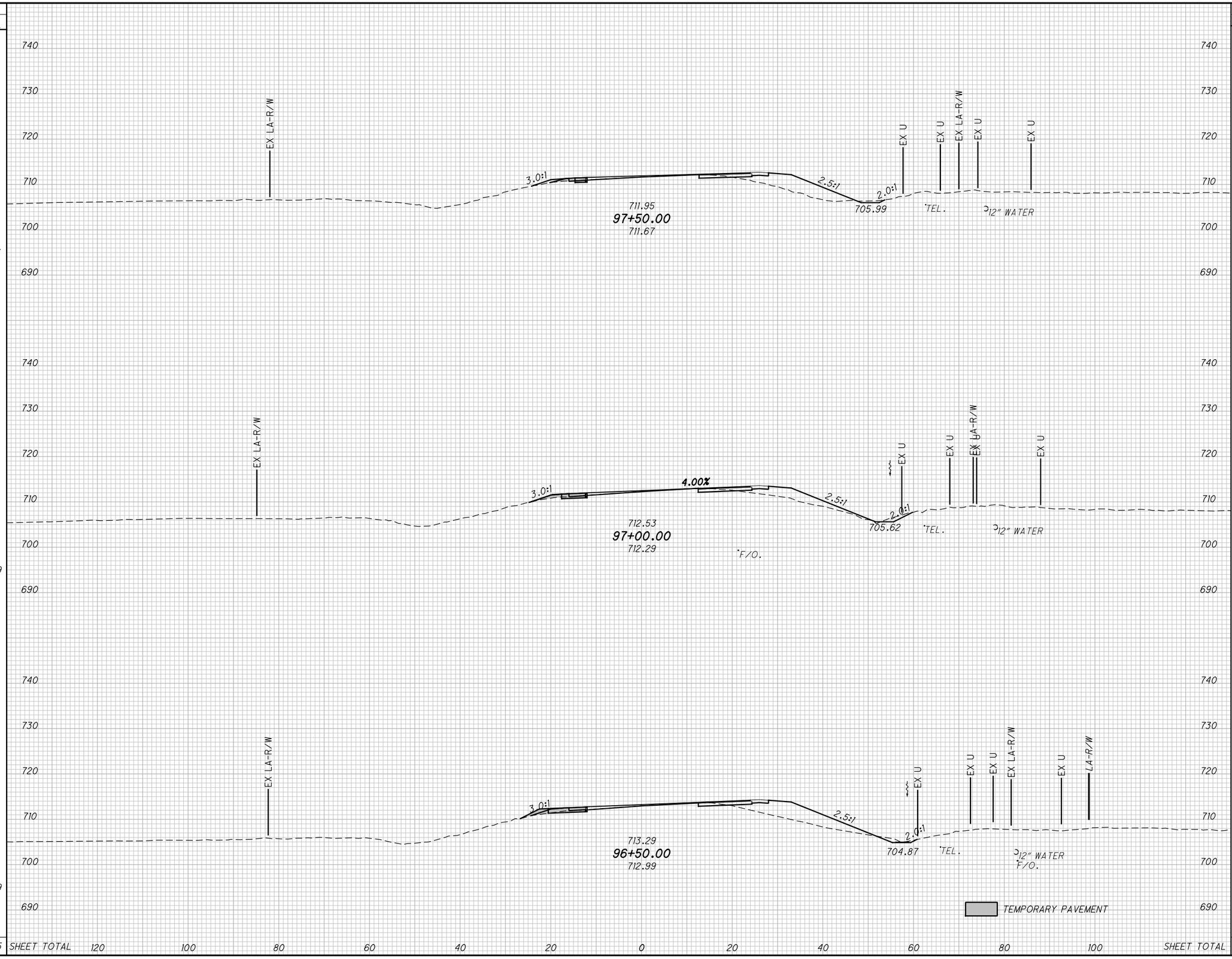
CROSS SECTIONS HOSPITAL RD.
STA. 93+50.00 TO STA. 96+00.00

ROS-207-0.00

206
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:49 AM MLORENZ

SEEDING	
END WIDTH	SQ. YDS.
35	217
43	239
43	249
	705



END AREA	
CUT	FILL
6	60
8	40
7	73

VOLUME	
CUT	FILL
13	92
14	104
13	131
40	327

SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

CALCULATED MJL
CHECKED DMV

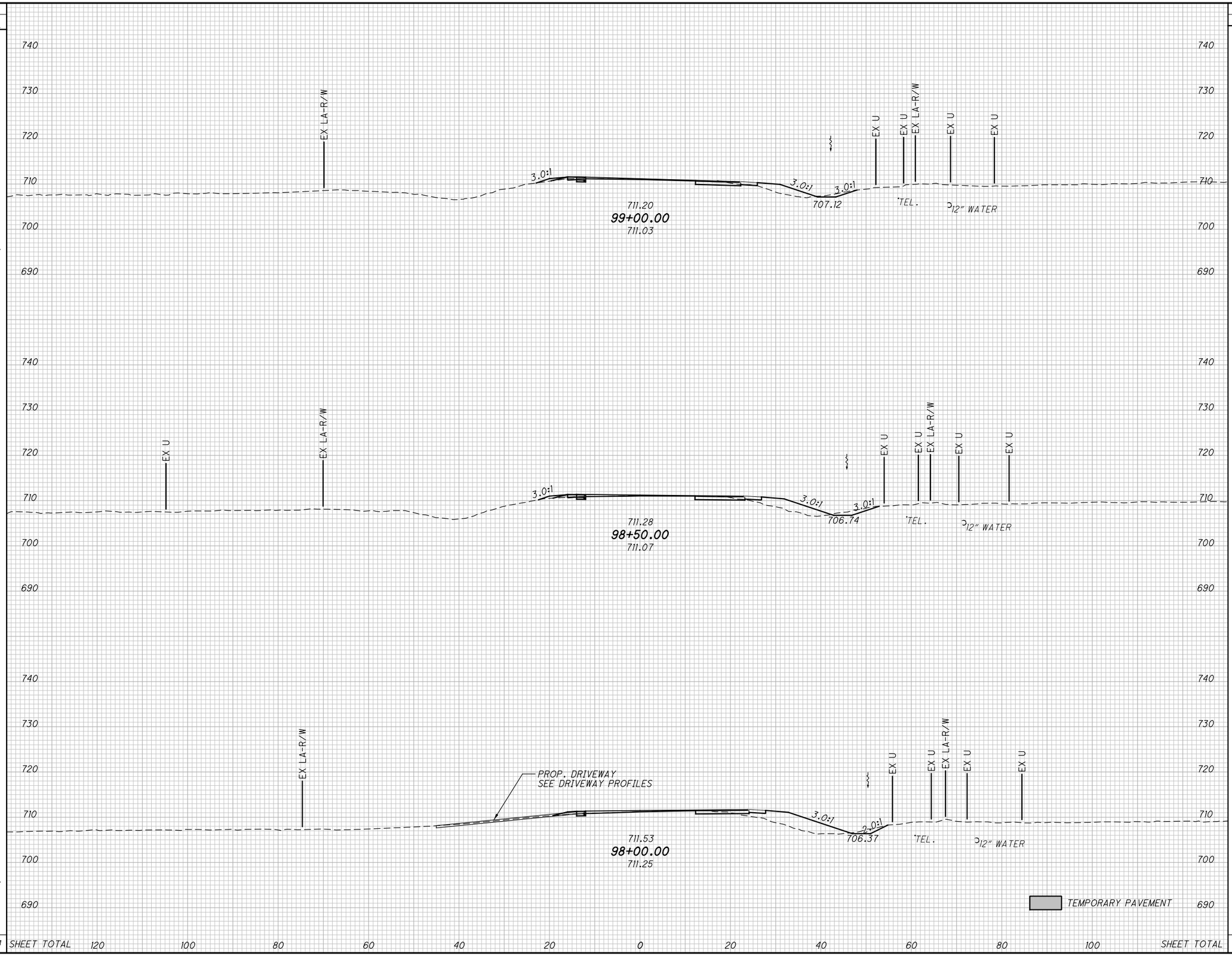
CROSS SECTIONS HOSPITAL RD.
STA. 96+50.00 TO STA. 97+50.00

ROS-207-0.00

207
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:49 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
30	176	12	19	23	45
34	171	13	30	28	70
28	177	17	46	21	98
	524 SHEET TOTAL			72	213



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD.
STA. 98+00.00 TO STA. 99+00.00

ROS-207-0.00

208
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:49 AM MLORENZ

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL
39	196	711.99 **100+50.00** 711.95	29	4	51	9
31	192	711.56 **100+00.00** 711.48	26	5	48	18
38	188	711.30 **99+50.00** 711.15	25	14	35	31
	576	SHEET TOTAL			134	58

EX R/W
EX U
EX U
EX R/W
EX U
EX U
4.0:1
6.0:1
708.24
TEL.
12" WATER
707.87
707.49
3.0:1
TEMPORARY PAVEMENT
740
730
720
710
700
690
120 100 80 60 40 20 0 20 40 60 80 100

CALCULATED MJL
CHECKED DMV

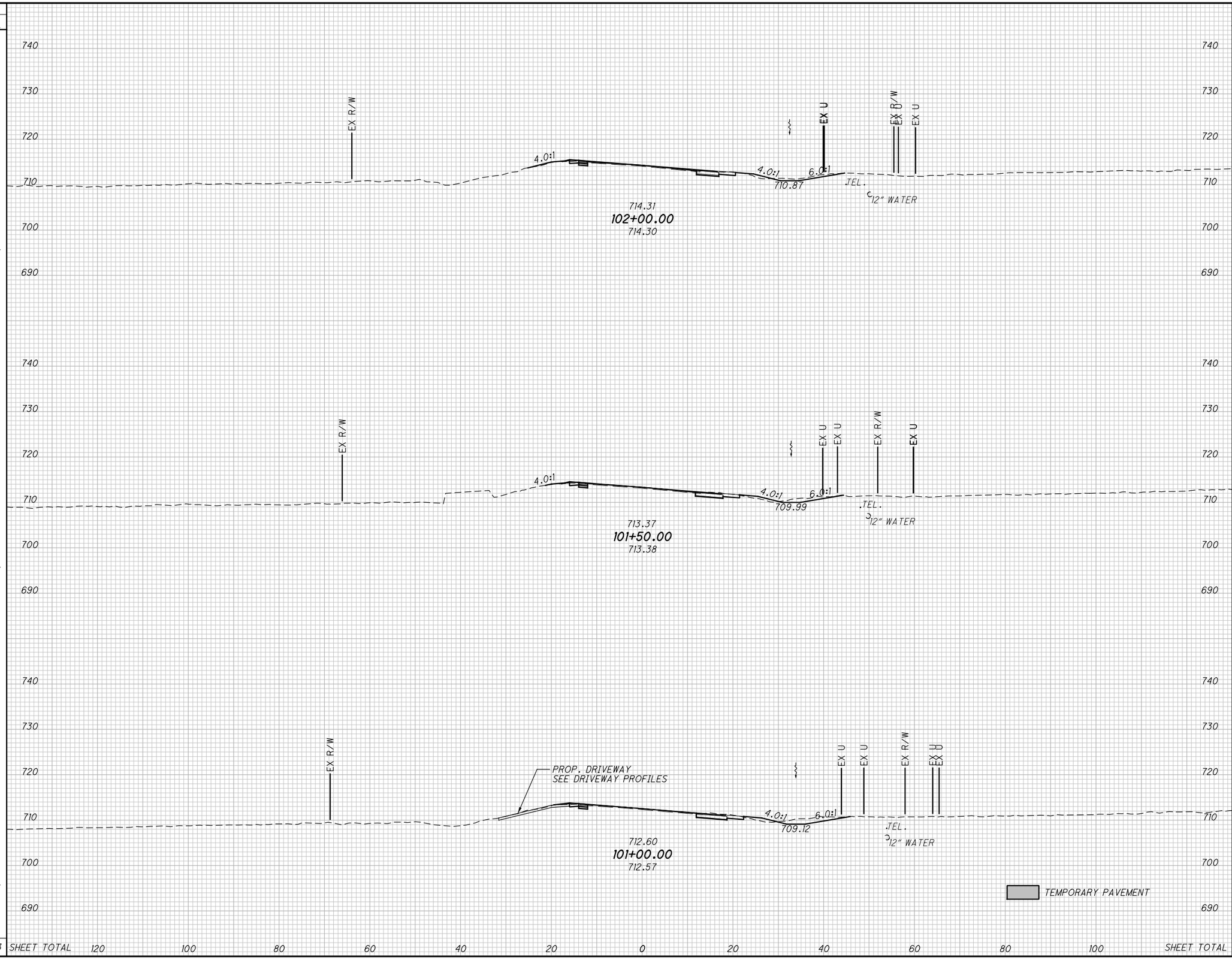
CROSS SECTIONS HOSPITAL RD.
STA. 99+50.00 TO STA. 100+50.00

ROS-207-0.00

209
332

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:50 AM MLORENZ

SEEDING END WIDTH	SEEDING SQ. YDS.
34	173
28	145
24	175
	493



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
15	3		
		30	7
18	4		
		46	7
32	3		
		56	7
		132	21

SHEET TOTAL 120 100 80 60 40 20 0 20 40 60 80 100 SHEET TOTAL

CALCULATED MJL CHECKED DMV

CROSS SECTIONS HOSPITAL RD. STA. 101+00.00 TO STA. 102+00.00

ROS-207-0.00

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
13	63	6	2	14	5
10	85	9	3	18	8
20	151	11	5	24	8
	299 SHEET TOTAL			56	21



CALCULATED MJL
CHECKED DMV

CROSS SECTIONS HOSPITAL RD.
STA. 102+50.00 TO STA. 103+50.00

ROS-207-0.00

211
332

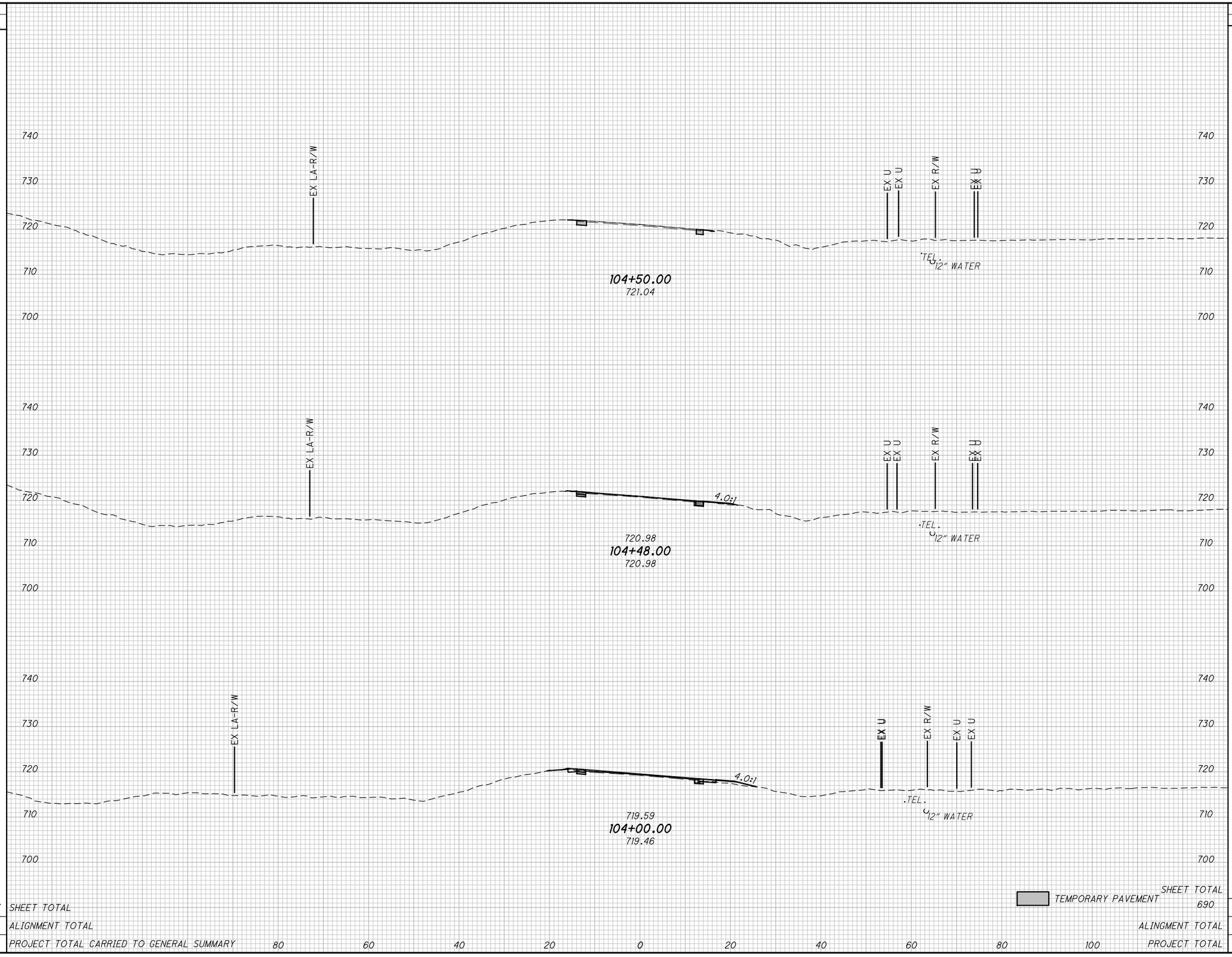
c:\pwworking\eost01\d0244753\93744_XS005.dgn 5/2/2019 10:10:51 AM MLORENZ

CROSS SECTIONS HOSPITAL RD.
STA. 104+00.00 TO STA. 104+50.00

CALCULATED MJL | CHECKED DMV

ROS-207-0.00

212
332



SEEDING END WIDTH	SEEDING SQ. YDS.	
9	59	
14	74	
133		SHEET TOTAL
17137		ALIGNMENT TOTAL
84891		PROJECT TOTAL CARRIED TO GENERAL SUMMARY

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	
3	2	5	5	
3	4	9	6	
		14	11	SHEET TOTAL
CUT VOL		FILL VOL		TEMPORARY PAVEMENT
2943		22591		ALINGMENT TOTAL
15314		100697		PROJECT TOTAL

80 60 40 20 0 20 40 60 80 100

c:\pwworking\east01\d0244753\93744_XS005.dgn 5/2/2019 10:10:51 AM MLORENZ

SUPERELEVATION TABLE

P.I. Station 216+01.77 | Dc = 2° 30′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
689.69		-0.19	-0.0160	12.00	207+75.00	689.88	12.00	-0.0160	-0.19		689.69	
689.69		-0.19	-0.0160	12.00	207+76.86	689.88	12.00	-0.0160	-0.19		689.69	N.C.
689.76		-0.09	-0.0073	12.00	208+00.00	689.85	12.00	-0.0160	-0.19		689.66	
689.82		+0.00	+0.0000	12.00	208+19.49	689.82	12.00	-0.0160	-0.19		689.63	1/2 FLAT
689.83		+0.02	+0.0021	12.00	208+25.00	689.81	12.00	-0.0160	-0.19		689.62	
689.91		+0.14	+0.0115	12.00	208+50.00	689.77	12.00	-0.0160	-0.19		689.58	
689.94	222:1	+0.19	+0.0160	12.00	208+62.11	689.75	12.00	-0.0160	-0.19		689.56	R.C.
689.98		+0.25	+0.0208	12.00	208+75.00	689.73	12.00	-0.0208	-0.25	222:1	689.48	
690.02		+0.31	+0.0260	12.00	208+88.75	689.71	12.00	-0.0260	-0.31		689.40	P.C.
690.06		+0.36	+0.0302	12.00	209+00.00	689.70	12.00	-0.0302	-0.36		689.34	
690.13		+0.47	+0.0390	12.00	209+23.38	689.66	12.00	-0.0390	-0.47		689.19	F.S.
690.13		+0.47	+0.0390	12.00	209+25.00	689.66	12.00	-0.0390	-0.47		689.19	
CONSTANT SUPERELEVATION AND PAVEMENT WIDTH												
690.15		+0.47	+0.0390	12.00	216+60.00	689.68	12.00	-0.0390	-0.47		689.21	
690.18		+0.48	+0.0390	12.25	216+75.00	689.70	12.25	-0.0390	-0.48		689.22	
690.23		+0.49	+0.0390	12.67	217+00.00	689.74	12.67	-0.0390	-0.49		689.25	
690.29		+0.51	+0.0390	13.08	217+25.00	689.78	13.08	-0.0390	-0.51		689.27	
690.29		+0.51	+0.0390	13.09	217+25.36	689.78	13.09	-0.0390	-0.51		689.27	F.S.
690.23		+0.41	+0.0307	13.50	217+50.00	689.82	13.50	-0.0307	-0.41	185:1	689.41	
690.17		+0.31	+0.0222	13.92	217+75.00	689.86	13.92	-0.0222	-0.31		689.55	
690.15		+0.28	+0.0200	14.03	217+81.60	689.87	14.03	-0.0200	-0.28		689.59	R.C.
690.10	185:1	+0.20	+0.0138	14.33	218+00.00	689.90	14.33	-0.0200	-0.29		689.61	
690.02		+0.08	+0.0053	14.75	218+25.00	689.94	14.75	-0.0200	-0.30		689.65	
689.97		+0.00	+0.0000	15.01	218+40.80	689.97	15.01	-0.0200	-0.30		689.67	1/2 FLAT
689.94		-0.05	-0.0031	15.17	218+50.00	689.99	15.17	-0.0200	-0.30		689.69	
689.85		-0.18	-0.0116	15.58	218+75.00	690.03	15.58	-0.0200	-0.31		689.72	
689.78		-0.32	-0.0200	16.00	219+00.00	690.10	16.00	-0.0200	-0.32		689.78	N.C.

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	

CALCULATED M.JL | CHECKED DMV

SUPERELEVATION TABLE - S.R. 207
CURVE 2

ROS-207-0.00

213
332

5/2/2019 10:11:04 AM MLORENZ
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SUPERELEVATION TABLE

P.I. Station 114+03.82 | Dc = 2° 30′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
700.16		-0.25	-0.0214	11.80	110+35.00	700.41	12.00	-0.0355	-0.43		699.98	
700.15		-0.25	-0.0214	11.89	110+41.70	700.40	12.00	-0.0355	-0.43		699.97	
700.12		-0.26	-0.0214	12.00	110+50.00	700.38	12.00	-0.0318	-0.38		700.00	TIE TO EX. PAVE.
700.09		-0.26	-0.0214	12.00	110+73.00	700.35	12.00	-0.0214	-0.26		700.09	
700.09	185:1	-0.26	-0.0214	12.00	110+75.00	700.35	12.00	-0.0205	-0.25		700.10	
700.02		-0.31	-0.0260	12.00	110+83.21	700.33	12.00	-0.0168	-0.20		700.13	
700.02		-0.31	-0.0260	12.00	110+84.99	700.33	12.00	-0.0160	-0.19		700.14	N.C.
699.99		-0.31	-0.0260	12.00	111+00.00	700.30	12.00	-0.0092	-0.11		700.19	
699.94		-0.31	-0.0260	12.00	111+20.51	700.25	12.00	+0.0000	+0.00	185:1	700.25	1/2 FLAT
699.92		-0.31	-0.0260	12.00	111+25.00	700.23	12.00	+0.0020	+0.02		700.25	
699.87		-0.31	-0.0260	12.00	111+50.00	700.18	12.00	+0.0133	+0.16		700.34	
699.86		-0.31	-0.0260	12.00	111+56.03	700.17	12.00	+0.0160	+0.19		700.36	R.C.
699.85		-0.31	-0.0260	12.00	111+58.99	700.16	12.00	+0.0173	+0.21		700.37	P.C.
699.83		-0.31	-0.0260	12.00	111+75.00	700.14	12.00	+0.0245	+0.29		700.43	
699.82		-0.31	-0.0260	12.00	111+78.23	700.13	12.00	+0.0260	+0.31		700.44	F.S.
699.79		-0.31	-0.0260	12.00	112+00.00	700.10	12.00	+0.0260	+0.31		700.41	
699.75		-0.31	-0.0260	12.00	112+25.00	700.06	12.00	+0.0260	+0.31		700.37	
699.72		-0.31	-0.0260	12.00	112+50.00	700.03	12.00	+0.0260	+0.31		700.34	
699.68		-0.31	-0.0260	12.00	112+75.00	699.99	12.00	+0.0260	+0.31		700.30	
699.64		-0.31	-0.0260	12.00	113+00.00	699.95	12.00	+0.0260	+0.31		700.26	
699.60		-0.31	-0.0260	12.00	113+25.00	699.91	12.00	+0.0260	+0.31		700.22	
699.57		-0.31	-0.0260	12.00	113+50.00	699.88	12.00	+0.0260	+0.31		700.19	
699.55		-0.31	-0.0260	12.00	113+60.00	699.86	12.00	+0.0260	+0.31		700.17	
699.52		-0.32	-0.0260	12.25	113+75.00	699.84	12.25	+0.0260	+0.32		700.16	
699.47		-0.33	-0.0260	12.67	114+00.00	699.80	12.67	+0.0260	+0.33		700.13	
699.42		-0.34	-0.0260	13.08	114+25.00	699.76	13.08	+0.0260	+0.34		700.10	
699.38		-0.35	-0.0260	13.50	114+50.00	699.73	13.50	+0.0260	+0.35		700.08	
699.33		-0.36	-0.0260	13.92	114+75.00	699.69	13.92	+0.0260	+0.36		700.05	
699.28		-0.37	-0.0260	14.33	115+00.00	699.65	14.33	+0.0260	+0.37		700.02	
699.23		-0.38	-0.0260	14.75	115+25.00	699.61	14.75	+0.0260	+0.38		699.99	
699.19		-0.39	-0.0260	15.17	115+50.00	699.58	15.17	+0.0260	+0.39		699.97	
699.05		-0.41	-0.0260	15.58	115+75.00	699.46	15.58	+0.0260	+0.41		699.87	
698.76		-0.42	-0.0260	16.00	116+00.00	699.18	16.00	+0.0260	+0.42		699.60	
698.54		-0.42	-0.0260	16.00	116+13.31	698.96	16.00	+0.0260	+0.42		699.38	F.S.
698.40	161:1	-0.34	-0.0215	16.00	116+25.00	698.74	16.00	+0.0215	+0.34		699.08	
698.34		-0.32	-0.0200	16.00	116+28.77	698.66	16.00	+0.0200	+0.32		698.98	R.C.
697.90		-0.32	-0.0200	16.00	116+46.80	698.22	16.00	+0.0130	+0.21		698.43	P.T.
697.81		-0.32	-0.0200	16.00	116+50.00	698.13	16.00	+0.0118	+0.19		698.32	
697.08		-0.32	-0.0200	16.00	116+75.00	697.40	16.00	+0.0021	+0.03	161:1	697.43	
696.92		-0.32	-0.0200	16.00	116+80.29	697.24	16.00	-0.0000	-0.00		697.24	1/2 FLAT
696.38		-0.32	-0.0200	16.00	117+00.00	696.70	16.00	-0.0077	-0.12		696.58	
695.89		-0.32	-0.0200	16.00	117+25.00	696.21	16.00	-0.0174	-0.28		695.93	
695.80		-0.32	-0.0200	16.00	117+31.81	696.12	16.00	-0.0200	-0.32		695.80	N.C.
695.64		-0.33	-0.0200	16.56	117+50.00	695.97	16.78	-0.0200	-0.34		695.63	

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

P.I. Station 123+09.26 | Dc = 3° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
693.70		-0.32	-0.0200	16.00	120+50.00	694.02	16.00	-0.0200	-0.32		693.70	
693.30		-0.32	-0.0200	16.00	120+69.86	693.62	16.00	-0.0200	-0.32		693.30	N.C.
693.20		-0.32	-0.0200	16.00	120+75.00	693.52	16.00	-0.0179	-0.29		693.23	
692.70		-0.32	-0.0200	16.00	121+00.00	693.02	16.00	-0.0076	-0.12		692.90	
692.34		-0.32	-0.0200	16.00	121+18.50	692.66	16.00	-0.0000	-0.00		692.66	1/2 FLAT
692.23		-0.32	-0.0200	16.00	121+25.00	692.55	16.00	+0.0027	+0.04		692.59	
691.97		-0.32	-0.0200	16.00	121+40.00	692.29	16.00	+0.0088	+0.14		692.43	
691.81		-0.32	-0.0200	15.83	121+50.00	692.13	15.83	+0.0130	+0.21		692.34	
691.71		-0.31	-0.0200	15.71	121+57.41	692.02	15.71	+0.0160	+0.25	152:1	692.27	P.C.
691.57		-0.31	-0.0200	15.55	121+67.14	691.88	15.55	+0.0200	+0.31		692.19	R.C.
691.42	152:1	-0.36	-0.0232	15.42	121+75.00	691.78	15.42	+0.0232	+0.36		692.14	
691.38		-0.37	-0.0240	15.39	121+76.87	691.75	15.39	+0.0240	+0.37		692.12	F.S.
691.12		-0.36	-0.0240	15.00	122+00.00	691.48	15.00	+0.0240	+0.36		691.84	
690.89		-0.35	-0.0240	14.58	122+25.00	691.24	14.58	+0.0240	+0.35		691.59	
690.72		-0.34	-0.0240	14.17	122+50.00	691.06	14.17	+0.0240	+0.34		691.40	
690.57		-0.33	-0.0240	13.75	122+75.00	690.90	13.75	+0.0240	+0.33		691.23	
690.43		-0.32	-0.0240	13.33	123+00.00	690.75	13.33	+0.0240	+0.32		691.07	
690.29		-0.31	-0.0240	12.92	123+25.00	690.60	12.92	+0.0240	+0.31		690.91	
690.14		-0.30	-0.0240	12.50	123+50.00	690.44	12.50	+0.0240	+0.30		690.74	
690.00		-0.29	-0.0240	12.08	123+75.00	690.29	12.08	+0.0240	+0.29		690.58	
689.97		-0.29	-0.0240	12.00	123+80.26	690.26	12.00	+0.0240	+0.29		690.55	
689.85		-0.29	-0.0240	12.00	124+00.00	690.14	12.00	+0.0240	+0.29		690.43	
689.69		-0.29	-0.0240	12.00	124+25.00	689.98	12.00	+0.0240	+0.29		690.27	
689.56		-0.29	-0.0240	12.00	124+45.89	689.85	12.00	+0.0240	+0.29		690.14	F.S.
689.54		-0.29	-0.0240	12.00	124+50.00	689.83	12.00	+0.0217	+0.26		690.09	
689.47		-0.29	-0.0240	12.00	124+60.48	689.76	12.00	+0.0160	+0.19		689.95	P.T.
689.42		-0.29	-0.0240	12.00	124+75.00	689.71	12.00	+0.0080	+0.10		689.81	
689.39		-0.29	-0.0240	12.00	124+89.66	689.68	12.00	+0.0000	+0.00		689.68	1/2 FLAT
689.36		-0.29	-0.0240	12.00	125+00.00	689.65	12.00	-0.0057	-0.07		689.58	
689.31		-0.29	-0.0240	12.00	125+18.85	689.60	12.00	-0.0160	-0.19	152:1	689.41	N.C.
689.29		-0.29	-0.0240	12.00	125+25.00	689.58	12.00	-0.0194	-0.23		689.35	
689.28		-0.29	-0.0240	12.00	125+30.00	689.57	12.00	-0.0221	-0.27		689.30	
689.27	152:1	-0.29	-0.0240	11.99	125+33.44	689.56	11.99	-0.0240	-0.29		689.27	TIE TO EX. PAVE.
689.25		-0.29	-0.0240	11.97	125+40.56	689.54	11.97	-0.0279	-0.33		689.21	
689.18		-0.33	-0.0279	11.94	125+50.00	689.51	11.94	-0.0331	-0.40		689.11	
689.16		-0.33	-0.0279	11.91	125+62.38	689.49	11.91	-0.0399	-0.47		689.02	
689.15		-0.33	-0.0279	11.90	125+65.00	689.48	11.90	-0.0399	-0.47		689.01	

CALCULATED M.JL | CHECKED DMV

SUPERELEVATION TABLE - S.R. 159
CURVE 3 AND CURVE 4

ROS-207-0.00

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SUPERELEVATION TABLE

P.I. Station 137+03.01 | Dc = 6° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
674.64		-0.37	-0.0311	11.81	133+96.80	675.01	12.00	-0.0160	-0.19		674.82	
674.60	152:1	-0.35	-0.0293	11.85	134+00.00	674.95	12.00	-0.0160	-0.19		674.76	TIE TO EXISTING
674.27		-0.19	-0.0160	12.00	134+24.34	674.46	12.00	-0.0160	-0.19		674.27	
674.26		-0.19	-0.0160	12.00	134+25.00	674.45	12.00	-0.0160	-0.19		674.26	
673.76		-0.19	-0.0160	12.00	134+50.00	673.95	12.00	-0.0160	-0.19		673.76	
673.26		-0.19	-0.0160	12.00	134+75.00	673.45	12.00	-0.0160	-0.19		673.26	
667.24		-0.19	-0.0160	12.00	134+75.69	667.43	12.00	-0.0160	-0.19		667.24	N.C.
672.76		-0.19	-0.0160	12.00	135+00.00	672.95	12.00	-0.0027	-0.03		672.92	
672.66		-0.19	-0.0160	12.00	135+04.88	672.85	12.00	+0.0000	+0.00		672.85	1/2 FLAT
672.26		-0.19	-0.0160	12.00	135+25.00	672.45	12.00	+0.0110	+0.13		672.58	
672.07		-0.19	-0.0160	12.00	135+34.06	672.26	12.00	+0.0160	+0.19	152:1	672.45	R.C.
671.65	152:1	-0.30	-0.0247	12.00	135+50.00	671.95	12.00	+0.0247	+0.30		672.25	
671.49		-0.34	-0.0280	12.00	135+55.95	671.83	12.00	+0.0280	+0.34		672.17	P.C.
670.99		-0.46	-0.0384	12.00	135+75.00	671.45	12.00	+0.0384	+0.46		671.91	
670.82		-0.50	-0.0420	12.00	135+81.49	671.32	12.00	+0.0420	+0.50		671.82	F.S
670.45		-0.50	-0.0420	12.00	136+00.00	670.95	12.00	+0.0420	+0.50		671.45	
670.16		-0.50	-0.0420	12.00	136+15.00	670.66	12.00	+0.0420	+0.50		671.16	
669.94		-0.51	-0.0420	12.16	136+25.00	670.45	12.16	+0.0420	+0.51		670.96	
669.42		-0.53	-0.0420	12.58	136+50.00	669.95	12.58	+0.0420	+0.53		670.48	
668.90		-0.55	-0.0420	12.99	136+75.00	669.45	12.99	+0.0420	+0.55		670.00	
668.39		-0.56	-0.0420	13.41	137+00.00	668.95	13.41	+0.0420	+0.56		669.51	
667.87		-0.58	-0.0420	13.83	137+25.00	668.45	13.82	+0.0420	+0.58		669.03	
667.35		-0.60	-0.0420	14.24	137+50.00	667.95	14.24	+0.0420	+0.60		668.55	
666.83		-0.62	-0.0420	14.66	137+75.00	667.45	14.66	+0.0420	+0.62		668.07	
666.32		-0.63	-0.0420	15.08	138+00.00	666.95	15.08	+0.0420	+0.63		667.58	
666.31		-0.63	-0.0420	15.08	138+00.16	666.94	15.08	+0.0420	+0.63		667.57	F.S.
665.96		-0.49	-0.0318	15.50	138+25.00	666.45	15.50	+0.0318	+0.49		666.94	
665.63	152:1	-0.36	-0.0224	15.88	138+47.79	665.99	15.88	+0.0224	+0.36		666.35	P.T.
665.61		-0.34	-0.0215	15.92	138+50.00	665.95	15.92	+0.0215	+0.34		666.29	
665.55		-0.32	-0.0200	15.98	138+53.66	665.87	15.98	+0.0200	+0.32	152:1	666.19	R.C.
665.53		-0.32	-0.0200	16.00	138+55.00	665.85	16.00	+0.0194	+0.31		666.16	
665.21		-0.32	-0.0200	16.00	138+75.00	665.53	16.00	+0.0112	+0.18		665.71	
664.96		-0.32	-0.0200	16.00	139+00.00	665.28	16.00	+0.0009	+0.02		665.30	
664.94		-0.32	-0.0200	16.00	139+02.30	665.26	16.00	0.0000	0.00		665.26	1/2 FLAT
SEE NEXT CURVE FOR REVERSE CURVE TRANSITION												

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

P.I. Station 139+69.65 | Dc = 16° 22′ 13″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE PREVIOUS CURVE FOR REVERSE CURVE TRANSITION												
664.94		-0.32	-0.0200	16.00	139+02.30	665.26	16.00	0.0000	0.00		665.26	1/2 FLAT
664.87		-0.32	-0.0200	16.00	139+25.00	665.19	16.00	-0.0093	-0.15		665.04	
664.88		-0.32	-0.0200	16.00	139+34.73	665.20	16.00	-0.0133	-0.21	16:1	664.99	P.C.
664.95		-0.32	-0.0200	16.00	139+50.00	665.27	16.00	-0.0196	-0.31		664.96	
664.95		-0.32	-0.0200	16.00	139+50.94	665.27	16.00	-0.0200	-0.32		664.95	F.S.
SEE INTERSECTION DETAIL FOR PAVEMENT ELEVATIONS AT ROUNDABOUT												

CALCULATED M.JL | CHECKED DMV

SUPERELEVATION TABLE - S.R. 159
CURVE 9 AND CURVE 10

ROS-207-0.00

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332

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SUPERELEVATION TABLE

P.I. Station 143+51.62 | Dc = 16° 22′ 13″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE INTERSECTION DETAIL FOR PAVEMENT ELEVATIONS AT ROUNDABOUT												
666.71		-0.32	-0.0200	16.00	142+75.00	667.03	16.00	-0.0200	-0.32		666.71	
666.86		-0.32	-0.0200	16.00	142+93.11	667.18	16.00	-0.0200	-0.32		666.86	P.C.
666.93		-0.32	-0.0200	16.00	143+00.00	667.25	16.00	-0.0200	-0.32		666.93	
667.24		-0.32	-0.0200	16.00	143+22.39	667.56	16.00	-0.0200	-0.32		667.24	
667.28		-0.32	-0.0200	15.91	143+25.00	667.60	15.92	-0.0200	-0.32		667.28	
667.72		-0.30	-0.0200	15.07	143+50.00	668.02	15.11	-0.0200	-0.30		667.72	
668.12		-0.28	-0.0200	14.22	143+75.00	668.41	14.31	-0.0200	-0.29		668.12	
668.47		-0.27	-0.0200	13.37	144+00.00	668.74	13.50	-0.0200	-0.27		668.47	
668.58	16:1	-0.26	-0.0200	13.06	144+09.07	668.84	13.21	-0.0200	-0.26	16:1	668.58	P.T./F.S.
668.75		-0.20	-0.0160	12.72	144+19.37	668.95	12.88	-0.0160	-0.21		668.74	N.C.
668.80		-0.20	-0.0160	12.52	144+25.00	669.00	12.70	-0.0160	-0.20		668.80	

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	

CALCULATED MJL | CHECKED DMV

SUPERELEVATION TABLE - S.R. 159
CURVE 11

ROS-207-0.00

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SUPERELEVATION TABLE

P.I. Station 240+02.36 | Dc = 16° 22′ 13″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE INTERSECTION DETAIL FOR PAVEMENT ELEVATIONS AT ROUNDABOUT												
666.80		-0.32	-0.0200	15.83	239+50.00	667.12	15.83	-0.0200	-0.32		666.80	
666.83		-0.31	-0.0200	15.73	239+56.04	667.14	15.73	-0.0200	-0.31		666.83	P.C.
666.90		-0.31	-0.0200	15.42	239+75.00	667.21	15.42	-0.0200	-0.31		666.90	
666.98		-0.30	-0.0200	15.00	240+00.00	667.28	15.00	-0.0200	-0.30		666.98	
667.03		-0.29	-0.0200	14.65	240+21.23	667.32	14.64	-0.0200	-0.29		667.03	N.C./F.S.
667.06	16:1	-0.27	-0.0185	14.58	240+25.00	667.33	14.58	-0.0200	-0.29		667.04	
667.21		-0.14	-0.0096	14.20	240+48.14	667.35	14.20	-0.0200	-0.28		667.07	P.T.
667.23		-0.13	-0.0088	14.17	240+50.00	667.36	14.17	-0.0200	-0.28		667.08	
667.37		0.00	0.0000	13.79	240+72.75	667.37	13.79	-0.0200	-0.28		667.09	1/2 FLAT
SEE NEXT CURVE FOR REVERSE CURVE TRANSITION												

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

P.I. Station 242+58.31 | Dc = 2° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE PREVIOUS CURVE FOR REVERSE CURVE TRANSITION												
667.37		0.00	0.0000	13.79	240+72.75	667.37	13.79	-0.0200	-0.28		667.09	1/2 FLAT
667.38		+0.01	+0.0009	13.75	240+75.00	667.37	13.75	-0.0200	-0.28		667.10	
667.50		+0.14	+0.0106	13.33	241+00.00	667.36	13.33	-0.0200	-0.27		667.09	
667.56	16:1	+0.21	+0.0160	13.10	241+13.97	667.35	13.10	-0.0200	-0.26		667.09	P.C.
667.60		+0.26	+0.0200	12.93	241+24.27	667.34	12.93	-0.0200	-0.26		667.08	R.C.
667.60		+0.26	+0.0203	12.92	241+25.00	667.34	12.92	-0.0203	-0.26	16:1	667.08	
667.68		+0.37	+0.0300	12.50	241+50.00	667.31	12.50	-0.0300	-0.37		666.94	
667.71		+0.40	+0.0320	12.41	241+55.19	667.31	12.41	-0.0320	-0.40		666.91	F.S.
667.70		+0.39	+0.0320	12.08	241+75.00	667.31	12.08	-0.0320	-0.39		666.92	
667.69		+0.38	+0.0320	12.00	241+79.92	667.31	12.00	-0.0320	-0.38		666.93	
667.72		+0.38	+0.0320	12.00	242+00.00	667.34	12.00	-0.0320	-0.38		666.96	
667.77		+0.38	+0.0320	12.00	242+25.00	667.39	12.00	-0.0320	-0.38		667.01	
667.86		+0.38	+0.0320	12.00	242+50.00	667.48	12.00	-0.0320	-0.38		667.10	
667.97		+0.38	+0.0320	12.00	242+75.00	667.59	12.00	-0.0320	-0.38		667.21	
668.10		+0.38	+0.0320	12.00	243+00.00	667.72	12.00	-0.0320	-0.38		667.34	
668.21		+0.38	+0.0320	12.00	243+25.00	667.83	12.00	-0.0320	-0.38		667.45	
668.32		+0.38	+0.0320	12.00	243+50.00	667.94	12.00	-0.0320	-0.38		667.56	
668.41		+0.38	+0.0320	12.00	243+75.00	668.03	12.00	-0.0320	-0.38		667.65	
668.43		+0.38	+0.0320	12.00	243+81.09	668.05	12.00	-0.0320	-0.38		667.67	F.S
668.39		+0.28	+0.0235	12.00	244+00.00	668.11	12.00	-0.0235	-0.28	185:1	667.83	
668.39		+0.27	+0.0224	12.00	244+02.40	668.12	12.00	-0.0224	-0.27		667.85	P.T.
668.34		+0.19	+0.0160	12.00	244+16.61	668.15	12.00	-0.0160	-0.19		667.96	R.C.
668.32		+0.15	+0.0122	12.00	244+25.00	668.17	12.00	-0.0160	-0.19		667.98	
668.26		+0.04	+0.0032	12.00	244+45.00	668.22	12.00	-0.0160	-0.19		668.03	
668.24	185:1	+0.01	+0.0010	11.93	244+50.00	668.23	11.92	-0.0160	-0.19		668.04	
668.23		-0.00	-0.0000	11.90	244+52.13	668.23	11.89	-0.0160	-0.19		668.04	1/2 FLAT
668.15		-0.12	-0.0100	11.57	244+74.36	668.27	11.54	-0.0160	-0.18		668.09	
668.15		-0.12	-0.0103	11.56	244+75.00	668.27	11.53	-0.0157	-0.18		668.09	
668.10		-0.18	-0.0160	11.37	244+87.65	668.28	11.33	-0.0100	-0.11		668.17	TIE TO EXISTING
668.06		-0.24	-0.0216	11.19	245+00.00	668.30	11.14	-0.0045	-0.05	185:1	668.25	
668.06		-0.24	-0.0216	11.19	245+00.08	668.30	11.14	-0.0044	-0.05		668.25	
668.07		-0.24	-0.0216	11.12	245+05.00	668.31	11.06	-0.0022	-0.02		668.29	

CALCULATED M.JL | CHECKED DMV

SUPERELEVATION TABLE - S.R. 180 CURVE 12 AND CURVE 13

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SUPERELEVATION TABLE

P.I. Station 78+66.45 | Dc = 6° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
683.13		+0.96	+0.0800	12.00	78+46.00	682.17	12.00	-0.0800	-0.96		681.21	
683.16		+0.96	+0.0800	12.00	78+50.00	682.20	12.07	-0.0800	-0.97		681.23	
683.35		+0.96	+0.0800	12.00	78+75.00	682.39	12.52	-0.0800	-1.00		681.39	
683.58		+0.96	+0.0800	12.00	79+00.00	682.62	12.98	-0.0800	-1.04		681.58	
683.84		+0.96	+0.0800	12.00	79+25.00	682.88	13.43	-0.0800	-1.07		681.81	
684.13		+0.96	+0.0800	12.00	79+50.00	683.17	13.88	-0.0800	-1.11		682.06	
684.45		+0.96	+0.0800	12.00	79+75.00	683.49	14.35	-0.0800	-1.15		682.34	
684.80		+0.96	+0.0800	12.00	80+00.00	683.84	14.80	-0.0800	-1.18		682.66	
685.19		+0.96	+0.0800	12.00	80+25.00	684.23	15.25	-0.0800	-1.22		683.01	
685.60		+0.96	+0.0800	12.00	80+50.00	684.64	15.71	-0.0800	-1.26		683.39	
686.05		+0.96	+0.0800	12.00	80+75.00	685.09	16.17	-0.0800	-1.29		683.80	
686.49		+0.96	+0.0800	12.00	80+97.80	685.53	16.58	-0.0800	-1.33		684.20	F.S.
686.52		+0.95	+0.0791	12.00	81+00.00	685.57	16.62	-0.0791	-1.32		684.26	
686.92		+0.83	+0.0694	12.00	81+25.00	686.08	17.08	-0.0694	-1.18		684.90	
687.34		+0.71	+0.0596	12.00	81+50.00	686.63	17.53	-0.0596	-1.04		685.58	
687.80		+0.60	+0.0498	12.00	81+75.00	687.20	17.99	-0.0498	-0.90		686.31	
688.29		+0.48	+0.0400	12.00	82+00.00	687.81	18.44	-0.0400	-0.74		687.07	
688.29		+0.48	+0.0400	12.00	82+00.04	687.81	18.44	-0.0400	-0.74		687.07	P.T.
688.81	2/3:1	+0.36	+0.0302	12.00	82+25.00	688.45	18.89	-0.0302	-0.57	2/3:1	687.88	
689.36		+0.25	+0.0205	12.00	82+50.00	689.12	19.35	-0.0205	-0.40		688.72	
689.63		+0.19	+0.0160	12.00	82+61.38	689.43	19.55	-0.0160	-0.31		689.12	R.C.
689.95		+0.13	+0.0107	12.00	82+75.00	689.82	19.80	-0.0160	-0.32		689.50	
690.57		+0.01	+0.0009	12.00	83+00.00	690.56	20.25	-0.0160	-0.32		690.23	
690.62		+0.00	+0.0000	12.00	83+02.28	690.62	20.30	-0.0160	-0.32		690.30	1/2 FLAT
691.20		-0.11	-0.0089	12.00	83+25.00	691.31	20.71	-0.0160	-0.33		690.97	
691.66		-0.19	-0.0160	12.00	83+43.18	691.85	21.04	-0.0160	-0.34		691.51	N.C.
691.86		-0.19	-0.0160	12.00	83+50.00	692.06	21.16	-0.0160	-0.34		691.72	

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

P.I. Station 91+65.23 | Dc = 18° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
703.87		-0.19	-0.0160	12.00	87+50.00	704.06	24.00	-0.0160	-0.38		703.68	
704.23		-0.19	-0.0160	12.00	87+62.25	704.42	24.00	-0.0160	-0.38		704.04	N.C.
704.62		-0.19	-0.0160	12.00	87+75.00	704.81	24.00	-0.0135	-0.32		704.49	
705.37		-0.19	-0.0160	12.00	88+00.00	705.56	24.00	-0.0087	-0.21		705.35	
706.12		-0.19	-0.0160	12.00	88+25.00	706.31	24.00	-0.0038	-0.09		706.22	
706.70		-0.19	-0.0160	12.00	88+44.45	706.89	24.00	+0.0000	+0.00		706.89	1/2 FLAT
706.87		-0.19	-0.0160	12.00	88+50.00	707.06	24.00	+0.0011	+0.03		707.09	
707.05		-0.19	-0.0160	12.00	88+56.00	707.24	24.00	+0.0022	+0.05		707.29	
707.62		-0.19	-0.0160	12.00	88+75.00	707.81	24.00	+0.0059	+0.14		707.95	
708.37		-0.19	-0.0160	12.00	89+00.00	708.56	24.00	+0.0108	+0.26		708.82	
708.55		-0.19	-0.0160	12.00	89+06.00	708.74	24.00	+0.0120	+0.29		709.03	
709.12		-0.19	-0.0160	12.00	89+25.00	709.31	24.00	+0.0157	+0.38		709.69	
709.16		-0.19	-0.0160	12.00	89+26.65	709.35	24.00	+0.0160	+0.38		709.73	R.C.
709.81		-0.25	-0.0205	12.00	89+50.00	710.06	24.00	+0.0205	+0.49		710.55	
710.50		-0.30	-0.0254	12.00	89+75.00	710.80	24.00	+0.0254	+0.61		711.41	
710.67	2/3:1	-0.32	-0.0267	12.00	89+81.45	710.99	24.00	+0.0267	+0.64		711.63	P.C.
711.16		-0.36	-0.0303	12.00	90+00.00	711.52	24.00	+0.0303	+0.73		712.25	
711.76		-0.42	-0.0351	12.00	90+25.00	712.18	24.00	+0.0351	+0.84		713.02	
712.32		-0.48	-0.0400	12.00	90+49.95	712.80	24.00	+0.0400	+0.96		713.76	F.S.
712.32		-0.48	-0.0400	12.00	90+50.00	712.80	24.00	+0.0400	+0.96		713.76	
712.89		-0.48	-0.0400	12.00	90+75.00	713.37	24.00	+0.0400	+0.96		714.33	
713.41		-0.48	-0.0400	12.00	91+00.00	713.89	24.00	+0.0400	+0.96		714.85	
713.88		-0.48	-0.0400	12.00	91+25.00	714.36	24.00	+0.0400	+0.96		715.32	
714.31		-0.48	-0.0400	12.00	91+50.00	714.79	24.00	+0.0400	+0.96		715.75	F.S.
714.69		-0.48	-0.0400	12.00	91+75.00	715.17	24.00	+0.0400	+0.96		716.13	
714.97		-0.48	-0.0400	12.00	91+96.34	715.45	24.00	+0.0400	+0.96		716.41	

SEE INTERSECTION DETAILS FOR PAVEMENT ELEVATIONS AT HOSPITAL RD INTERSECTION

CALCULATED MJL | CHECKED DMV

SUPERELEVATION TABLE - HOSPITAL RD. CURVE 5 AND CURVE 6

ROS-207-0.00

218
332

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SUPERELEVATION TABLE

P.I. Station 96+49.82 | Dc = 16° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE INTERSECTION DETAILS FOR PAVEMENT ELEVATIONS AT HOSPITAL RD INTERSECTION												
715.52		0.00	0.0000	12.02	95+14.77	715.52	32.47	0.0000	0.00		715.52	FULL FLAT
715.34		-0.05	-0.0040	12.00	95+25.00	715.39	29.75	+0.0040	+0.12		715.51	
715.01		-0.13	-0.0110	12.00	95+43.07	715.14	26.06	+0.0110	+0.29		715.43	P.C.
714.88	143:1	-0.16	-0.0137	12.00	95+50.00	715.04	25.01	+0.0137	+0.34		715.38	
714.55		-0.24	-0.0200	12.00	95+66.25	714.79	24.00	+0.0200	+0.48	143:1	715.27	R.C.
714.37		-0.28	-0.0234	12.00	95+75.00	714.65	24.00	+0.0234	+0.56		715.21	
713.81		-0.40	-0.0331	12.00	96+00.00	714.21	24.00	+0.0331	+0.79		715.00	
713.39		-0.48	-0.0400	12.00	96+17.73	713.87	24.00	+0.0400	+0.96		714.83	F.S.
713.25		-0.48	-0.0400	12.00	96+25.00	713.73	24.00	+0.0400	+0.96		714.69	
712.81		-0.48	-0.0400	12.00	96+50.00	713.29	24.00	+0.0400	+0.96		714.25	
712.41		-0.48	-0.0400	12.00	96+75.00	712.89	24.00	+0.0400	+0.96		713.85	
712.05		-0.48	-0.0400	12.00	97+00.00	712.53	24.00	+0.0400	+0.96		713.49	
711.80		-0.48	-0.0400	12.00	97+19.93	712.28	24.00	+0.0400	+0.96		713.24	F.S.
711.76		-0.46	-0.0380	12.00	97+25.00	712.22	24.00	+0.0380	+0.91		713.13	
711.61		-0.34	-0.0282	12.00	97+50.00	711.95	24.00	+0.0282	+0.68		712.63	
711.60		-0.34	-0.0280	12.00	97+50.56	711.94	24.00	+0.0280	+0.67		712.61	P.T.
711.50	213:1	-0.22	-0.0185	12.00	97+75.00	711.72	24.00	+0.0185	+0.44	213:1	712.16	
711.47		-0.19	-0.0160	12.00	97+81.27	711.66	24.00	+0.0160	+0.38		712.04	R.C.
711.43		-0.10	-0.0087	12.00	98+00.00	711.53	23.78	+0.0087	+0.21		711.74	
711.40		0.00	0.0000	12.00	98+22.17	711.40	23.38	0.0000	0.00		711.40	FULL FLAT
SEE NEXT CURVE FOR REVERSE CURVE TRANSITION												

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE

SUPERELEVATION TABLE

P.I. Station 104+56.68 | Dc = 6° 00′ 00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE PREVIOUS CURVE FOR REVERSE CURVE TRANSITION												
711.40		0.00	0.0000	12.00	98+22.17	711.40	23.38	0.0000	0.00		711.40	FULL FLAT
711.39		+0.01	+0.0011	12.00	98+25.00	711.38	23.33	-0.0011	-0.03		711.35	
711.41		+0.13	+0.0109	12.00	98+50.00	711.28	22.87	-0.0109	-0.25		711.03	
711.43		+0.19	+0.0160	12.00	98+63.07	711.24	22.64	-0.0160	-0.36		710.88	R.C.
711.47		+0.25	+0.0207	12.00	98+75.00	711.22	22.42	-0.0207	-0.46		710.76	
711.57		+0.37	+0.0304	12.00	99+00.00	711.20	21.96	-0.0304	-0.67		710.53	
711.71		+0.48	+0.0402	12.00	99+25.00	711.23	21.51	-0.0402	-0.87		710.36	
711.90	213:1	+0.60	+0.0500	12.00	99+50.00	711.30	21.05	-0.0500	-1.05	213:1	710.25	
712.13		+0.72	+0.0598	12.00	99+75.00	711.41	24.60	-0.0598	-1.47		709.94	
712.13		+0.72	+0.0600	12.00	99+75.53	711.41	24.59	-0.0600	-1.48		709.93	P.C.
712.39		+0.83	+0.0696	12.00	100+00.00	711.56	20.16	-0.0696	-1.40		710.16	
712.71		+0.95	+0.0794	12.00	100+25.00	711.76	19.72	-0.0794	-1.56		710.20	
712.73		+0.96	+0.0800	12.00	100+26.65	711.77	19.69	-0.0800	-1.58		710.19	F.S.
712.95		+0.96	+0.0800	12.00	100+50.00	711.99	19.28	-0.0800	-1.54		710.45	

CALCULATED MJL | CHECKED DMV

SUPERELEVATION TABLE - HOSPITAL RD. CURVE 7 AND CURVE 8

ROS-207-0.00

219
332

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S.R. 207 FULL DEPTH PAVEMENT DESIGN SEE TYPICAL SECTIONS SHEET 3 -14

S.R. 207 MILL AND RESURFACE PAVEMENT DESIGN SEE TYPICAL SECTIONS SHEET 3 -14

HOSPITAL RD. NORTH FULL DEPTH PAVEMENT DESIGN SEE TYPICAL SECTIONS SHEET3 -14

HOSPITAL RD. SOUTH FULL DEPTH PAVEMENT DESIGN SEE TYPICAL SECTIONS SHEET3 -14

HOSPITAL RD. NORTH MILL AND RESURFACE PAVEMENT DESIGN SEE TYPICAL SECTIONS SHEET3 -14

STA. 176+68.11, 198.00' LT. S.R. 207
STA. 96+11.12, 108.96' RT. HOSPITAL RD.
Δ = 7° 57' 28"
R = 180.00'
L = 25.00'

STA. 178+40.22, 150.78' LT. S.R. 207
STA. 95+66.33, 274.00' RT. HOSPITAL RD.
Δ = 22° 55' 06"
R = 250.00'
L = 100.00'

STA. 176+48.04, 54.40' LT. S.R. 207
STA. 94+87.69, 80.49' RT. HOSPITAL RD.
Δ = 55° 24' 25"
R = 35.00'
L = 33.85'

STA. 95+13.29
END FULL DEPTH SHOULDER

STA. 175+05.55, 80.00' LT. C.R. 207A
STA. 95+13.29, 62.00' LT. HOSPITAL RD.
Δ = 89° 59' 46"
R = 50.00'
L = 78.54'

STA. 175+67.55 C.R. 207A =
STA. 175+67.55 S.R. 207 =
STA. 94+33.29 HOSPITAL RD.

℄ CONSTRUCTION HOSPITAL ROAD

℄ CONSTRUCTION C.R. 207A

℄ CONSTRUCTION S.R. 207

Ⓐ STA. 176+25.82 - S.R. 207

STA. 174+80.05, 90' RT. C.R. 207A
STA. 93+43.28, 87.49' LT. HOSPITAL RD.
Δ = 63° 13' 26"
R = 60.00'
L = 66.21'

STA. 93+32.31
BEGIN FULL
DEPTH SHOULDER

STA. 176+51.54, 78' RT. S.R. 207
STA. 93+55.30, 84' RT. HOSPITAL RD.
Δ = 89° 59' 46"
R = 60.00'
L = 94.24'

STA. 173+72.92, 144.06' RT. C.R. 207A
STA. 92+49.91, 192' LT. HOSPITAL RD.
Δ = 38° 27' 27"
R = 180.00'
L = 120.82'

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MJL
CHECKED DMV

INTERSECTION DETAIL
S.R. 207 / HOSPITAL ROAD

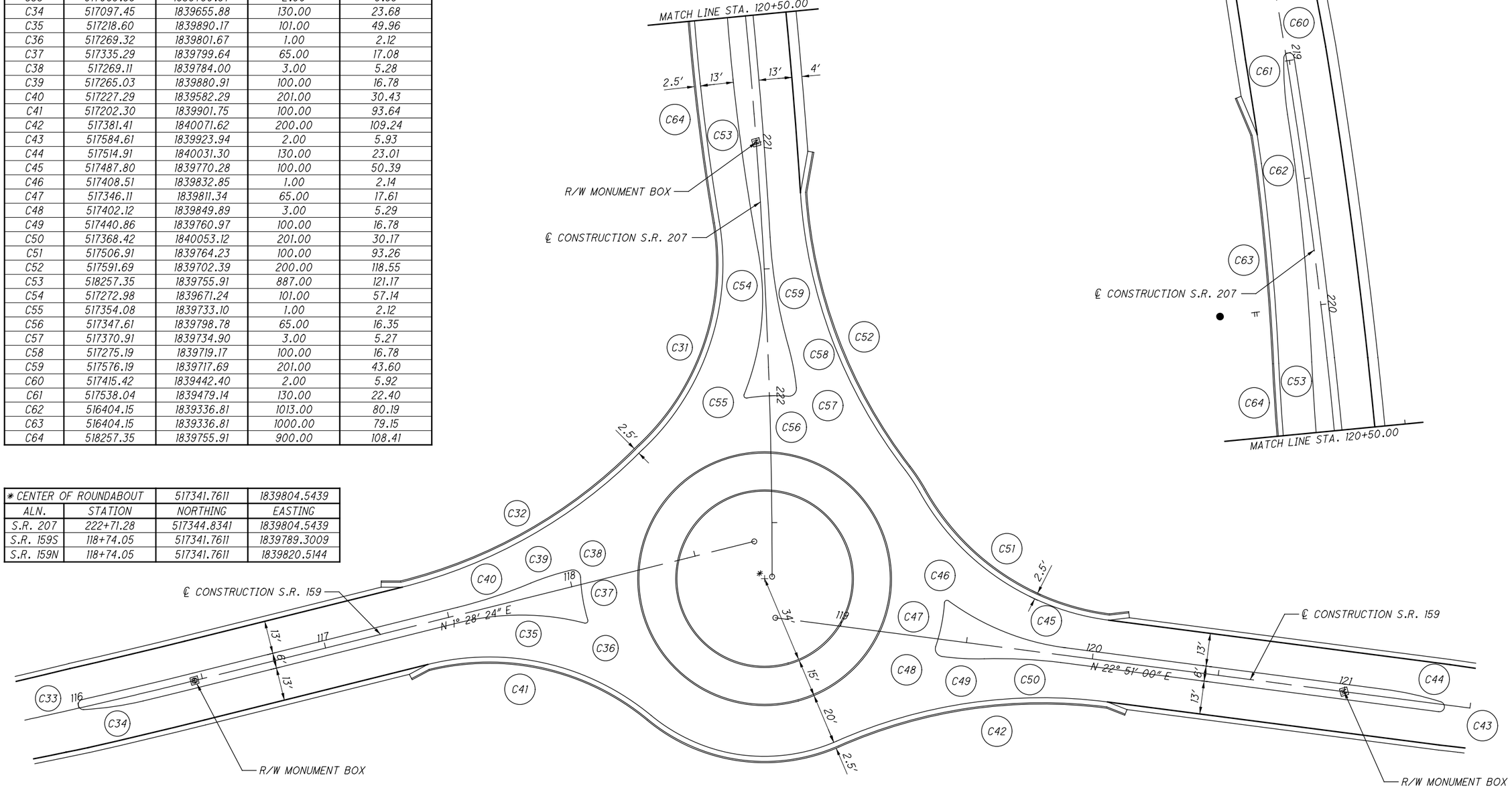
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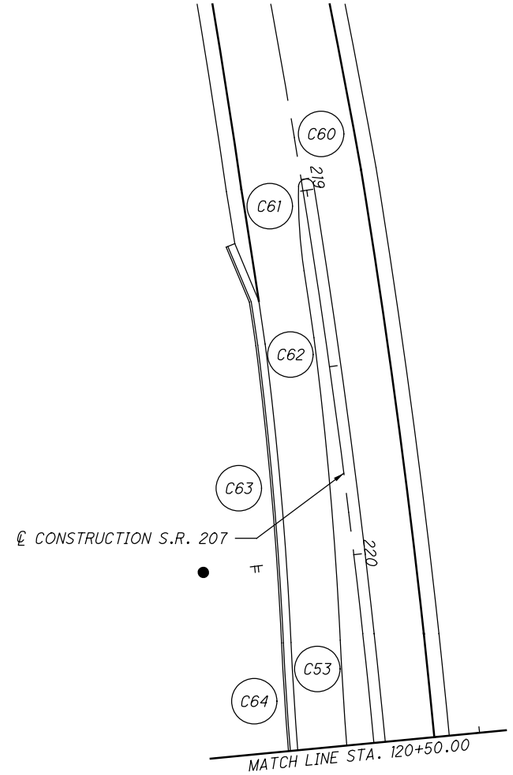
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332

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CURVE NO.	CENTER NORTHING	CENTER EASTING	RADIUS (FT.)	LENGTH (FT.)
C31	517262.54	1839654.13	100.00	98.41
C32	517208.36	1839569.80	200.00	108.49
C33	517069.86	1839780.87	2.00	5.88
C34	517097.45	1839655.88	130.00	23.68
C35	517218.60	1839890.17	101.00	49.96
C36	517269.32	1839801.67	1.00	2.12
C37	517335.29	1839799.64	65.00	17.08
C38	517269.11	1839784.00	3.00	5.28
C39	517265.03	1839880.91	100.00	16.78
C40	517227.29	1839582.29	201.00	30.43
C41	517202.30	1839901.75	100.00	93.64
C42	517381.41	1840071.62	200.00	109.24
C43	517584.61	1839923.94	2.00	5.93
C44	517514.91	1840031.30	130.00	23.01
C45	517487.80	1839770.28	100.00	50.39
C46	517408.51	1839832.85	1.00	2.14
C47	517346.11	1839811.34	65.00	17.61
C48	517402.12	1839849.89	3.00	5.29
C49	517440.86	1839760.97	100.00	16.78
C50	517368.42	1840053.12	201.00	30.17
C51	517506.91	1839764.23	100.00	93.26
C52	517591.69	1839702.39	200.00	118.55
C53	518257.35	1839755.91	887.00	121.17
C54	517272.98	1839671.24	101.00	57.14
C55	517354.08	1839733.10	1.00	2.12
C56	517347.61	1839798.78	65.00	16.35
C57	517370.91	1839734.90	3.00	5.27
C58	517275.19	1839719.17	100.00	16.78
C59	517576.19	1839717.69	201.00	43.60
C60	517415.42	1839442.40	2.00	5.92
C61	517538.04	1839479.14	130.00	22.40
C62	516404.15	1839336.81	1013.00	80.19
C63	516404.15	1839336.81	1000.00	79.15
C64	518257.35	1839755.91	900.00	108.41

* CENTER OF ROUNDABOUT		517341.7611	1839804.5439
ALN.	STATION	NORTHING	EASTING
S.R. 207	222+71.28	517344.8341	1839804.5439
S.R. 159S	118+74.05	517341.7611	1839789.3009
S.R. 159N	118+74.05	517341.7611	1839820.5144





INTERSECTION GEOMETRIC DETAIL
S.R. 207 / S.R. 159 ROUNDABOUT

ROS-207-0.00

221
332

CALCULATED M.JL
CHECKED DMV

0 10 20 40 HORIZONTAL SCALE IN FEET

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NOTE: ALL ELEVATIONS LISTED ARE AT EDGE OF PAVEMENT
FOR CURB HEIGHTS SEE TYPICAL SECTIONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MJL
CHECKED DMV

INTERSECTION DETAIL
S.R. 207 / S.R. 159 ROUNDABOUT

ROS-207-0.00

222
332

5/2/2019 10:12:39 AM MLORENZ
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℄ CONSTRUCTION
S.R. 207

END LANE TAPER STA. 219+00.00

END LANE TAPER STA. 219+00.00

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED M.JL
CHECKED DMV

INTERSECTION DETAIL
S.R. 207 / S.R. 159 ROUNDABOUT

ROS-207-0.00

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332

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INTERSECTION DETAIL
S.R. 207 / S.R. 159 ROUNDABOUT

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MJL
CHECKED DMV

END LANE TAPER STA. 116+00.00

℄ CONSTRUCTION S.R. 159

BEGIN LANE TAPER STA. 121+39.80

116 117 118 120 121 122

C32 C33 C34 C35 C36 C38 C39 C40 C41 C42 C43 C44 C45 C46 C48 C49 C50 C51

10′ TYP.

7.98′ 3.68′ 4.81′ 5.05′ 8.50′ 10.43′ 4.30′ 3.52′ 6.77′ 7.52′ 10.39′ 2.19′ 10.17′ 6.77′ 3.01′ 5.46′ 8.00′

16′ 13′ 9′

699.81 699.15 699.09 699.00 698.90 698.76 698.60 698.46 698.31 698.07 697.81 697.53 697.23 696.93 696.64 696.38 696.16 695.98 695.82 695.77 695.81 695.86 695.93 696.00 696.08 696.15 696.22 696.29 696.32

699.07 698.95 698.77 698.57 698.33 698.07 697.79 697.49 697.19 696.90 696.64 696.42 696.24 696.08 695.99 695.93 695.92 695.95 695.97 696.02 696.09 696.21

699.97 699.95 699.90 699.82 699.72 699.59 699.44 699.21 698.94 698.64 698.32 697.97 697.61 697.25 696.90 696.57 696.29 696.05 695.84 695.74 695.75 695.80 695.87 695.96 696.04

699.07 698.89 698.80 698.69 698.44 698.17 697.87 697.56 697.25 696.95 696.67 696.44 696.25 696.09 695.98 695.93 695.92 695.95 695.97 696.04 696.16 696.25

695.99 695.80 695.56 695.28 695.00 694.76 694.61 694.50 694.30 694.10 693.90 693.70 693.50 693.30 693.10 692.90 692.70 692.50 692.32 692.14 691.97 691.81 691.67 691.52 691.35 691.23 691.12

696.20 695.98 695.78 695.59 695.41 695.21 695.16 694.96 694.76 694.56 694.36 694.16 693.96 693.76 693.56 693.36 693.16 692.96 692.76 692.65 692.60 692.44 692.29 692.35 692.47 692.64 692.81 692.99 693.18 693.37 693.56 693.76 693.96 694.16 694.36 694.56 694.76 694.96 695.16 695.41 695.60 695.78 695.91 696.09 695.92 695.72 695.52 695.32 695.12 694.92 694.72 694.54 694.50 694.30 694.10 693.90 693.69 693.50 693.30 693.16 693.03 692.90 692.77 692.65 692.53 692.43 692.33 692.25 692.17 692.08 691.96 691.84

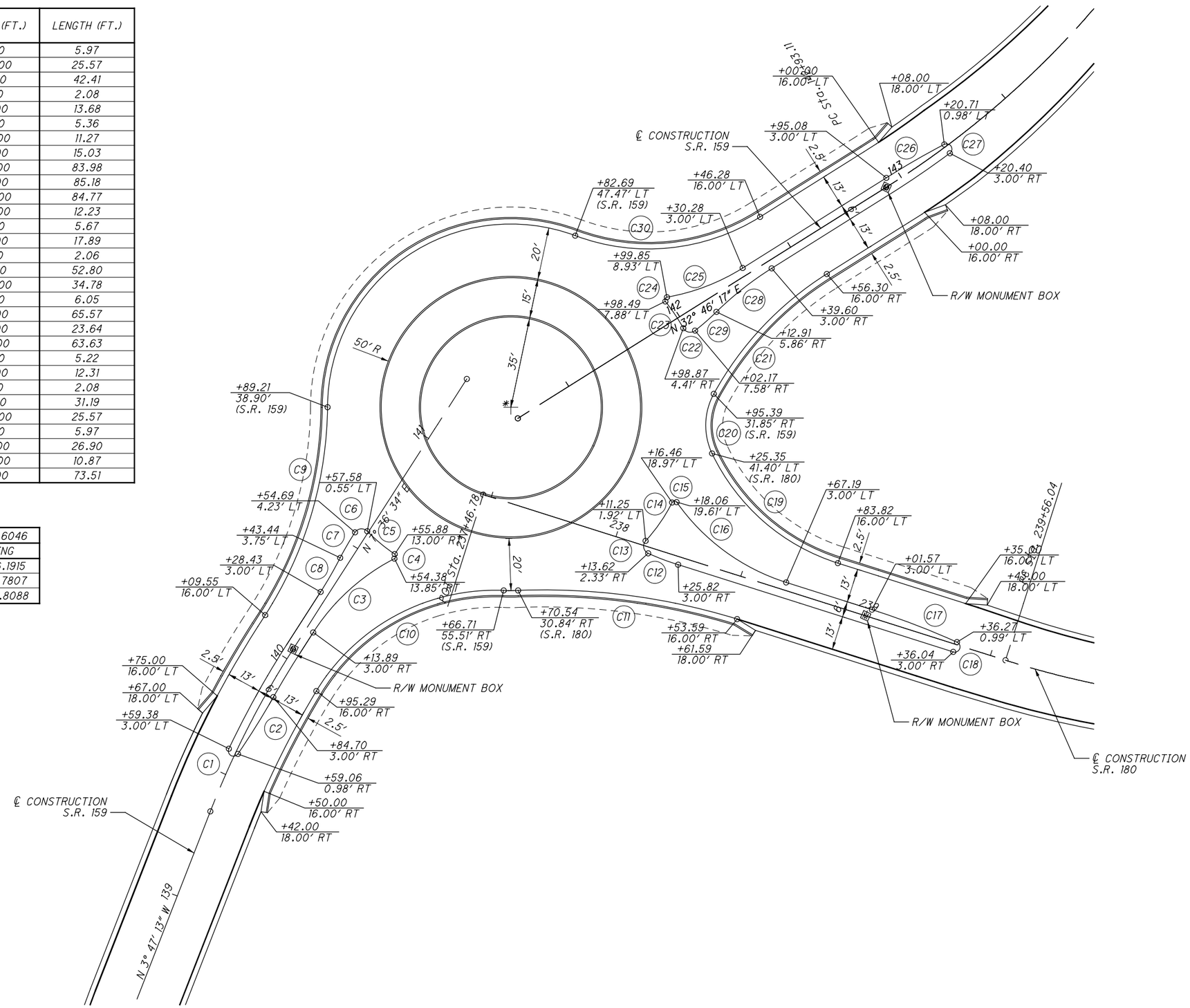
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332

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CURVE NO.	CENTER NORTHING	CENTER EASTING	RADIUS (FT.)	LENGTH (FT.)
C1	519355.94	1840301.45	2.00	5.97
C2	519403.98	1840007.35	300.00	25.57
C3	519399.10	1840390.06	81.00	42.41
C4	519449.14	1840325.09	1.00	2.08
C5	519514.38	1840335.07	65.00	13.68
C6	519450.79	1840310.97	3.00	5.36
C7	519436.68	1840406.94	100.00	11.27
C8	519445.03	1840156.08	151.00	15.03
C9	519427.91	1840141.68	150.00	83.98
C10	519381.52	1840399.90	80.00	85.18
C11	519235.56	1840488.74	250.00	84.77
C12	519591.47	1840411.24	100.00	12.23
C13	519494.49	1840412.71	3.00	5.67
C14	519514.78	1840347.81	65.00	17.89
C15	519512.94	1840413.79	1.00	2.06
C16	519584.09	1840454.56	81.00	52.80
C17	519210.88	1840538.57	300.00	34.78
C18	519508.85	1840533.95	2.00	6.05
C19	519598.16	1840469.46	80.00	65.57
C20	519555.68	1840434.53	25.00	23.64
C21	519549.39	1840534.34	125.00	63.63
C22	519577.45	1840390.17	3.00	5.22
C23	519522.73	1840349.80	65.00	12.31
C24	519582.27	1840378.29	1.00	2.08
C25	519649.30	1840331.06	81.00	31.19
C26	519498.96	1840687.39	300.00	25.57
C27	519679.68	1840450.44	2.00	5.97
C28	519541.84	1840515.20	126.00	26.90
C29	519621.14	1840303.57	100.00	10.87
C30	519669.25	1840329.63	80.00	73.51

*CENTER OF ROUNDABOUT		519519.7310	1840341.6046
ALN.	STATION	NORTHING	EASTING
S.R. 180	237+46.78	519485.0329	1840346.1915
S.R. 159S	141+27.04	519522.3794	1840321.7807
S.R. 159N	141+27.04	519517.0246	1840345.8088



INTERSECTION GEOMETRIC DETAIL
S.R.159 / S.R. 180 ROUNDABOUT

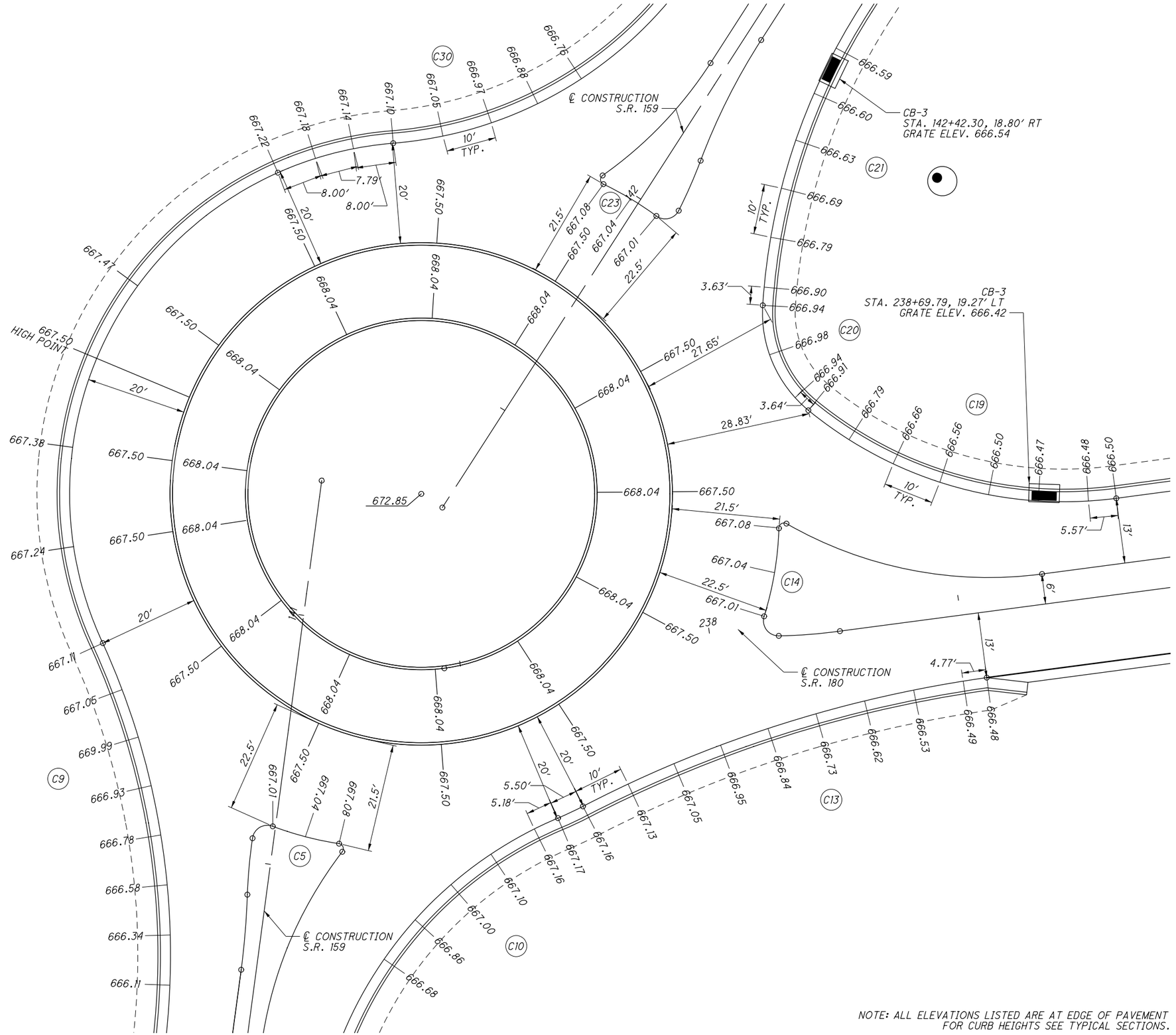
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MJL
CHECKED DMV

ROS-207-0.00

225
332

c:\pwworking\east01\d0244753\93744_GI005.dgn 5/2/2019 10:13:11 AM MLORENZ



NOTE: ALL ELEVATIONS LISTED ARE AT EDGE OF PAVEMENT
FOR CURB HEIGHTS SEE TYPICAL SECTIONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

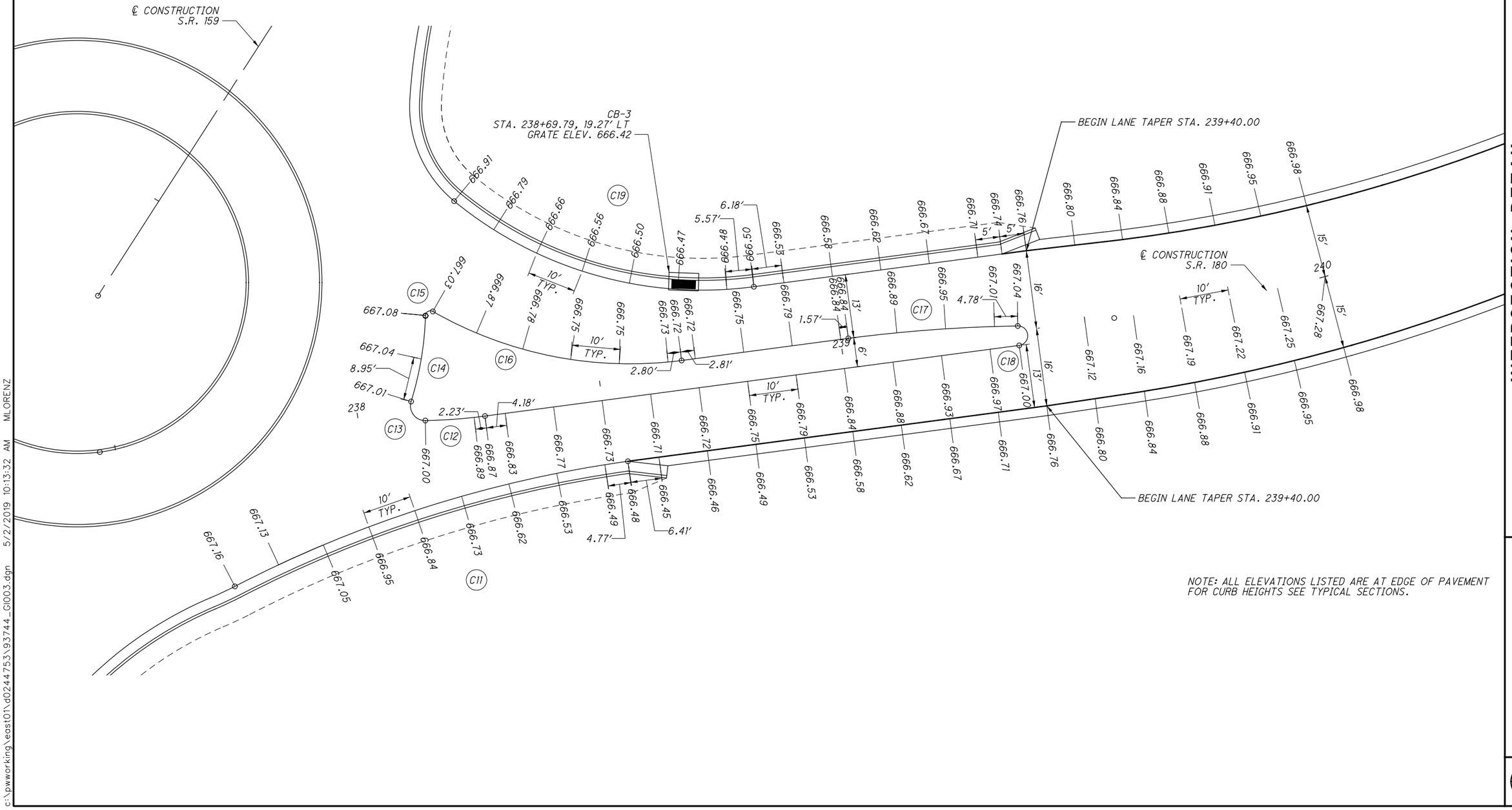
CALCULATED MJL
CHECKED DMV

INTERSECTION DETAIL
S.R. 159 / S.R. 180 ROUNDABOUT

ROS-207-0.00

226
332

c:\pwworking\eost01\d0244753\93744_GI002.dgn 5/2/2019 10:13:20 AM MLORENZ



NOTE: ALL ELEVATIONS LISTED ARE AT EDGE OF PAVEMENT
FOR CURB HEIGHTS SEE TYPICAL SECTIONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MJL
CHECKED DMV

INTERSECTION DETAIL
S.R. 159 / S.R. 180 ROUNDABOUT

ROS-207-0.00

227
332

c:\pwworking\east01\d0244753\93744_G003.dgn 5/2/2019 10:13:32 AM MLORENZ

INTERSECTION DETAIL
S.R. 159 / S.R. 180 ROUNDABOUT

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED M.JL
CHECKED DMV

ROS-207-0.00

228
332

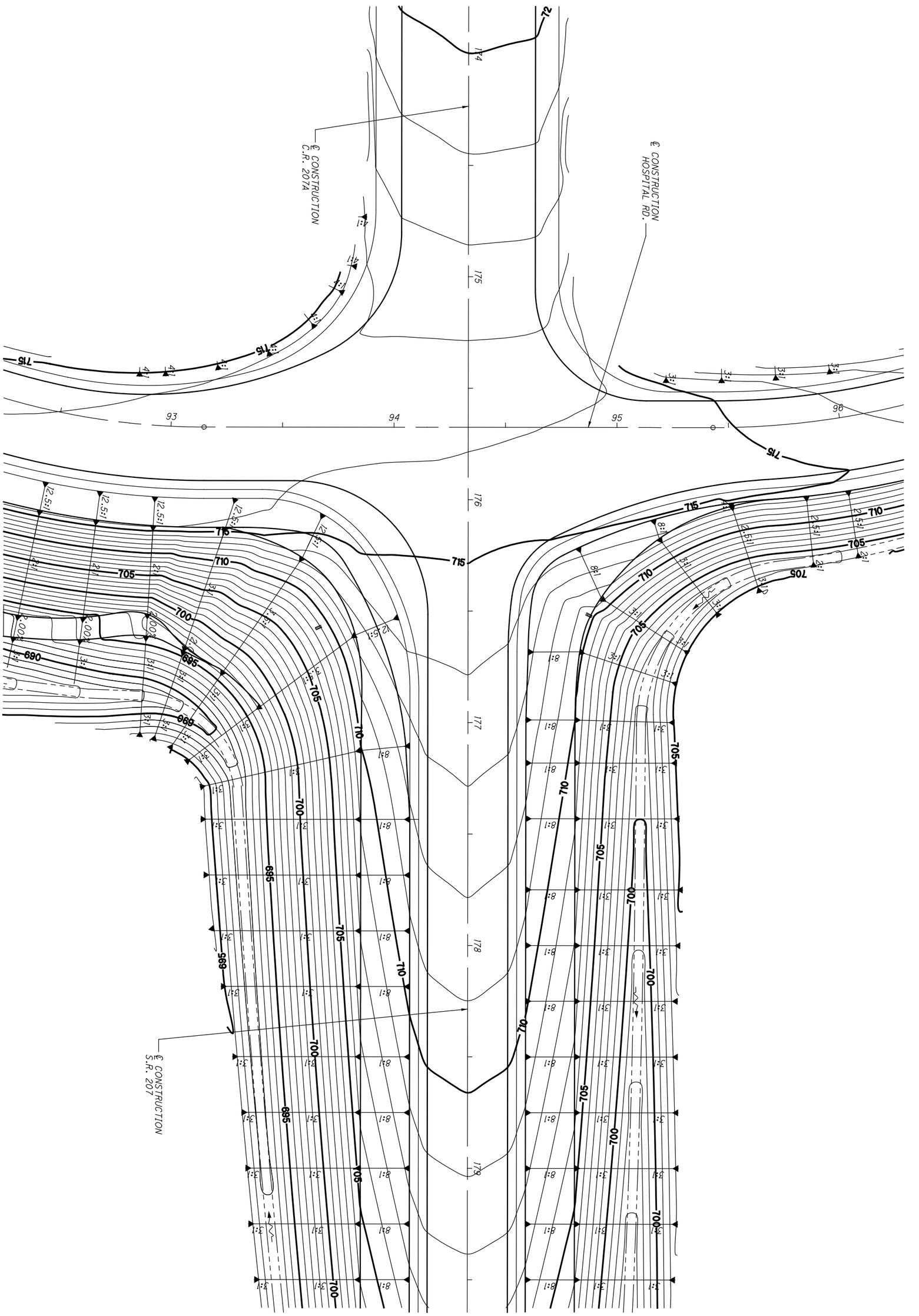
RT Sta. 138+47.79
END LANE TAPER
STA. 138+55.00
℄ CONSTRUCTION
S.R. 159
AC Sta. 139+34.73
AT Sta. 140+04.34
POT Sta. 141+27.04
N 3° 47' 13" W
N 7° 36' 34" E
16'
10' TYP.
5'
0.63'
3.89'
8.43'
2.41'
5.03'
9.75'
3.98'
6'
13'
10.00'
5.57'
5.24'
6.84'
5.04'
140
141
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10

CB-3
STA. 142+42.30, 18.80' RT
GRATE ELEV. 666.55
CB-3
STA. 142+41.32, 18.16' LT
GRATE ELEV. 666.54
BEGIN LANE TAPER
STA. 143+22.39
BEGIN LANE TAPER
STA. 143+22.39
℄ CONSTRUCTION
S.R. 159
13.50'
13.72'
11.19'
9.72'
10'
5.06'
5.57'
6.15'
6.90'
10.40'
3.63'
3.70'
142
143
144
C21 C22 C23 C24 C25 C26 C27 C28 C29 C30

NOTE: ALL ELEVATIONS LISTED ARE AT EDGE OF PAVEMENT
FOR CURB HEIGHTS SEE TYPICAL SECTIONS.

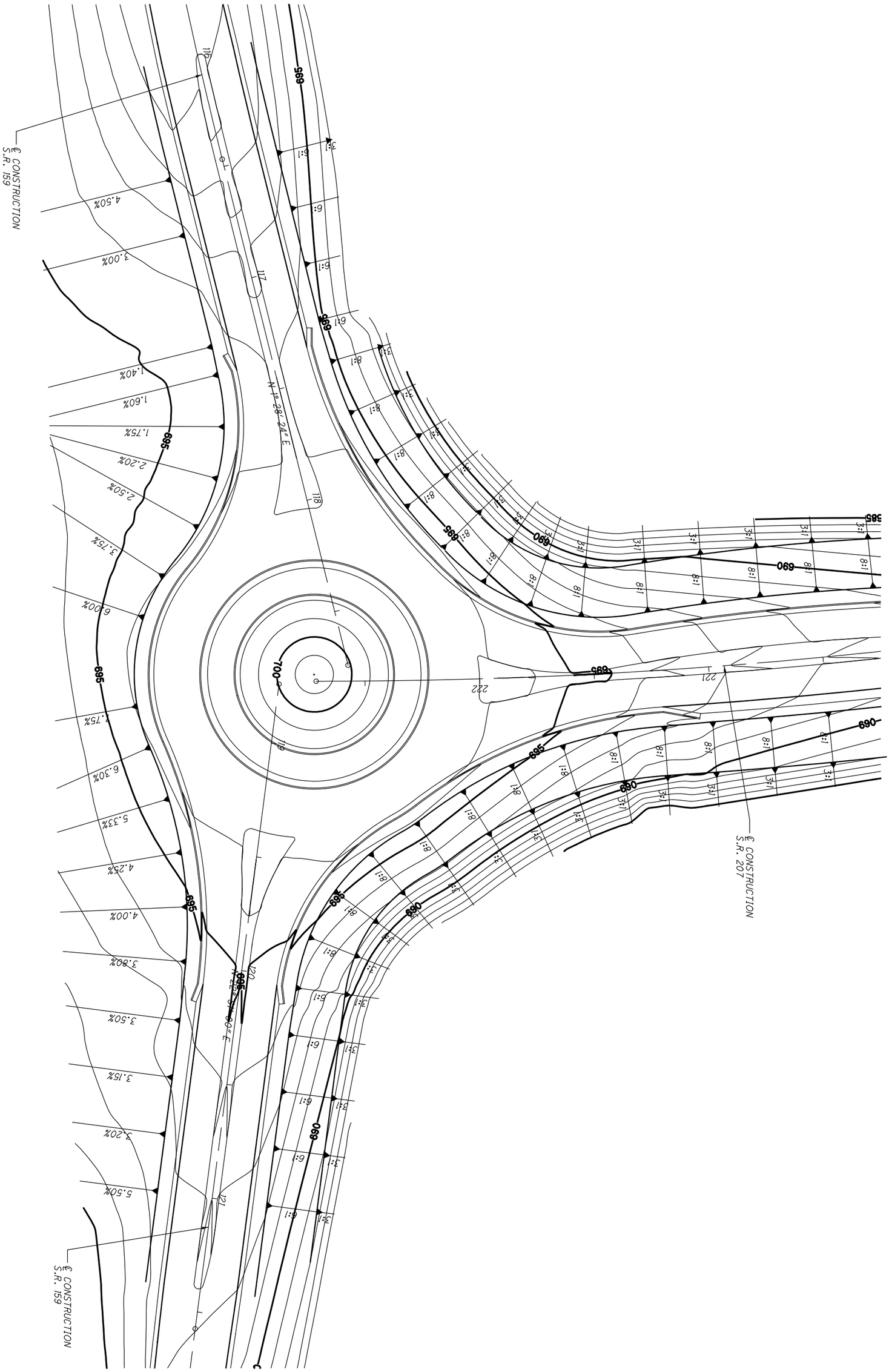
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c:\pwworking\east01\d0244753\93744_XG003.dgn 5/2/2019 10:13:58 AM MLORENZ



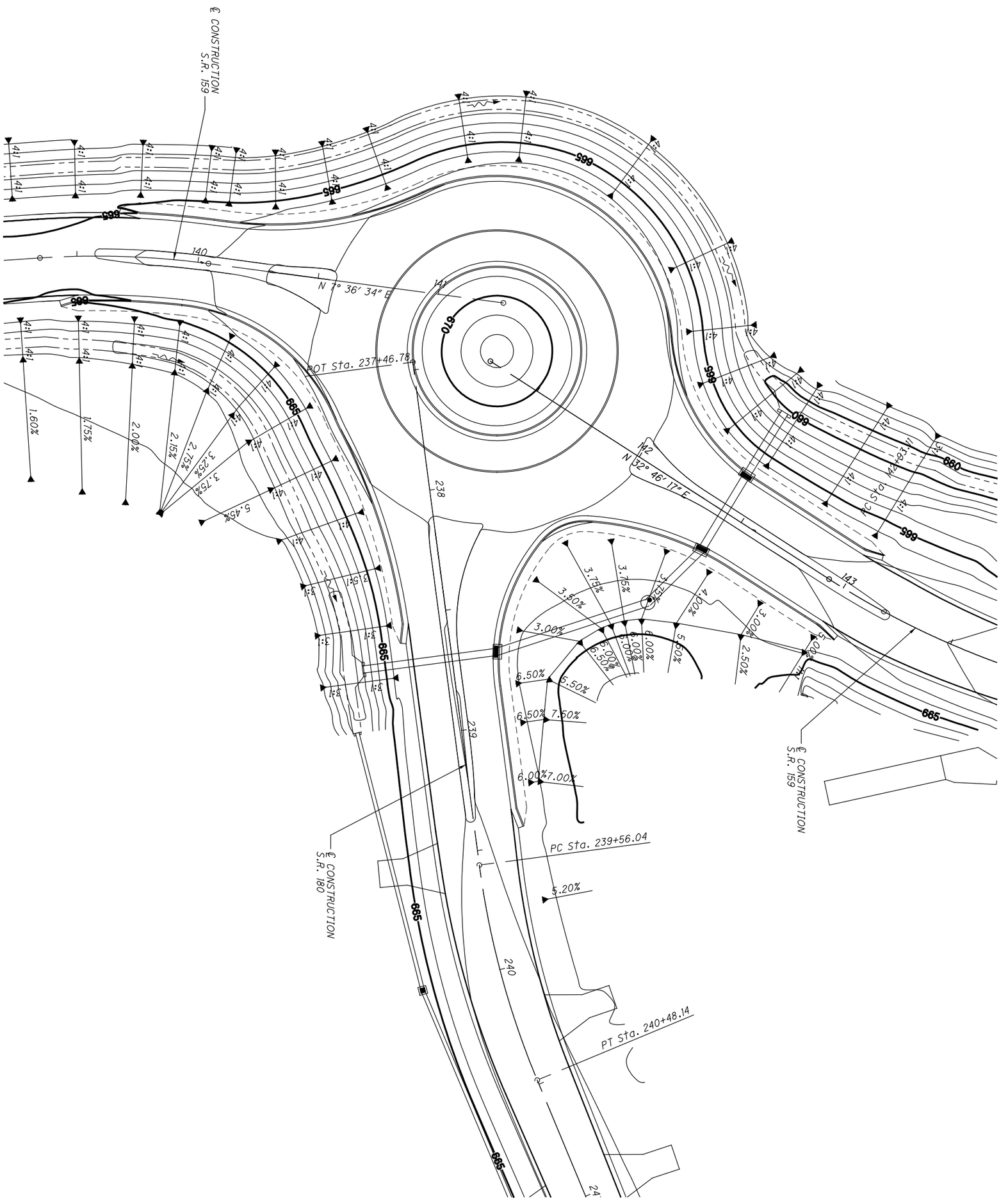
229 / 332	ROS-207-0.00	GRADING DETAIL S.R. 207/HOSPITAL ROAD INTERSECTION	CALCULATED MJL CHECKED DMV	0 5 10 20 HORIZONTAL SCALE IN FEET

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230 / 332	ROS-207-0.00	GRADING DETAIL S.R. 207 / S.R. 159 ROUNDABOUT	CALCULATED MJL CHECKED DMV	0 10 20 40 HORIZONTAL SCALE IN FEET

c:\pwworking\east01\d0244753\93744_XG002.dgn 5/2/2019 10:14:27 AM MLORENZ



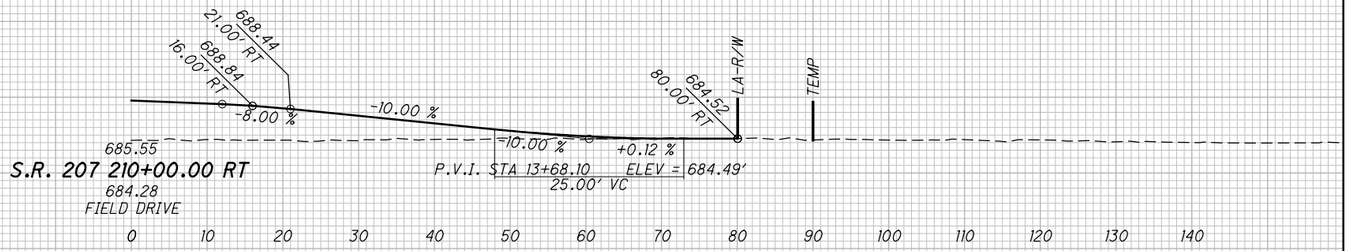
231 / 332	ROS-207-0.00	GRADING DETAIL S.R. 159 / S.R. 180 ROUNDABOUT	CALCULATED MJL CHECKED DMV	0 5 10 20 HORIZONTAL SCALE IN FEET

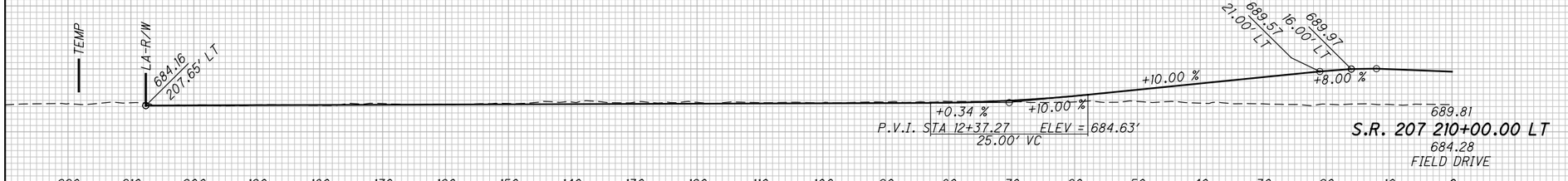
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED MJL
CHECKED DMV





FOR DRIVEWAY BUILDUP INFORMATION, SEE SHEET 235

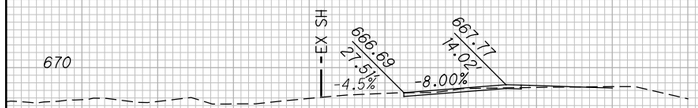
FIELD DRIVE PROFILE SHEET
S.R. 207 STA. 210+00.00

ROS-207-0.00

232
332

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FOR DRIVEWAY BUILDUP INFORMATION, SEE SHEET 235

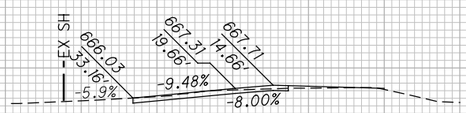


667.32

S.R. 180 241+88.04 LT

667.50

50 40 30 20 10 0

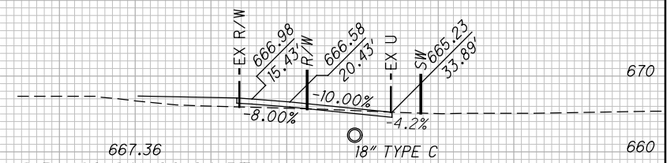


667.32

S.R. 180 241+40.94 LT

667.15

50 40 30 20 10 0

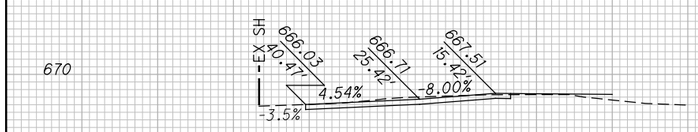


667.36

S.R. 180 241+00.04 RT

666.74

0 10 20 30 40 50

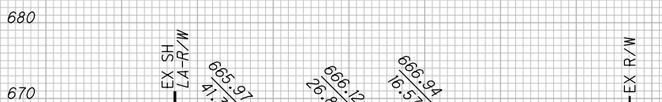


667.36

S.R. 180 240+96.33 LT

666.63

50 40 30 20 10 0

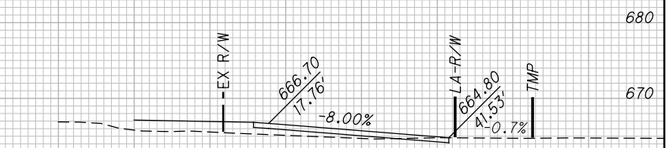


667.33

S.R. 180 240+25.80 LT

665.09

50 40 30 20 10 0

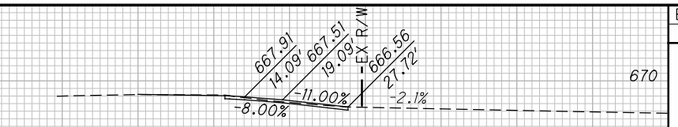


667.14

S.R. 180 239+56.04 RT

665.82

0 10 20 30 40 50

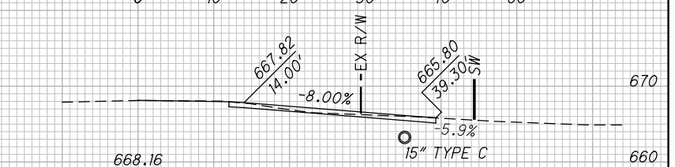


668.28

S.R. 180 244+82.30 RT

668.20

0 10 20 30 40 50

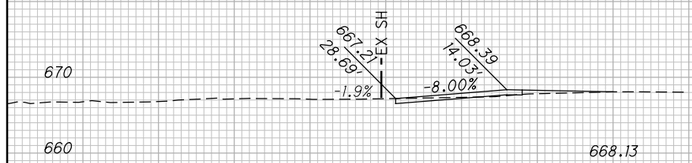


668.16

S.R. 180 244+17.54 RT

668.10

0 10 20 30 40 50

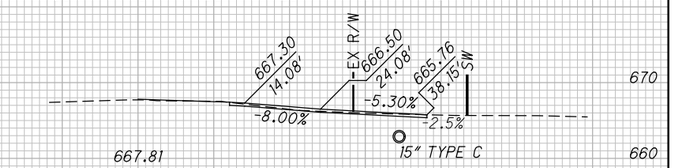


668.13

S.R. 180 244+09.00 LT

668.10

50 40 30 20 10 0

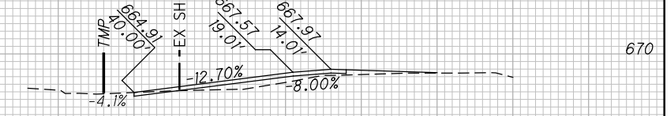


667.81

S.R. 180 243+20.69 RT

667.74

0 10 20 30 40 50

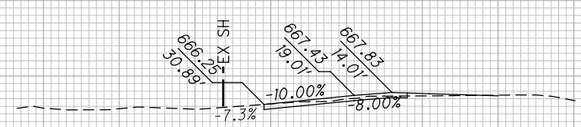


667.52

S.R. 180 242+59.91 LT

667.48

50 40 30 20 10 0

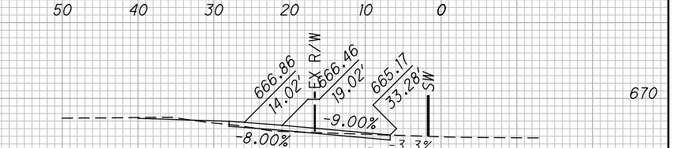


667.39

S.R. 180 242+22.37 LT

667.47

50 40 30 20 10 0



667.36

S.R. 180 242+13.04 RT

667.47

0 10 20 30 40 50

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL

CALCULATED MJL
CHECKED DMV

DRIVEWAY PROFILES

S.R. 180 STA. 239+56.04 TO STA. 244+82.30

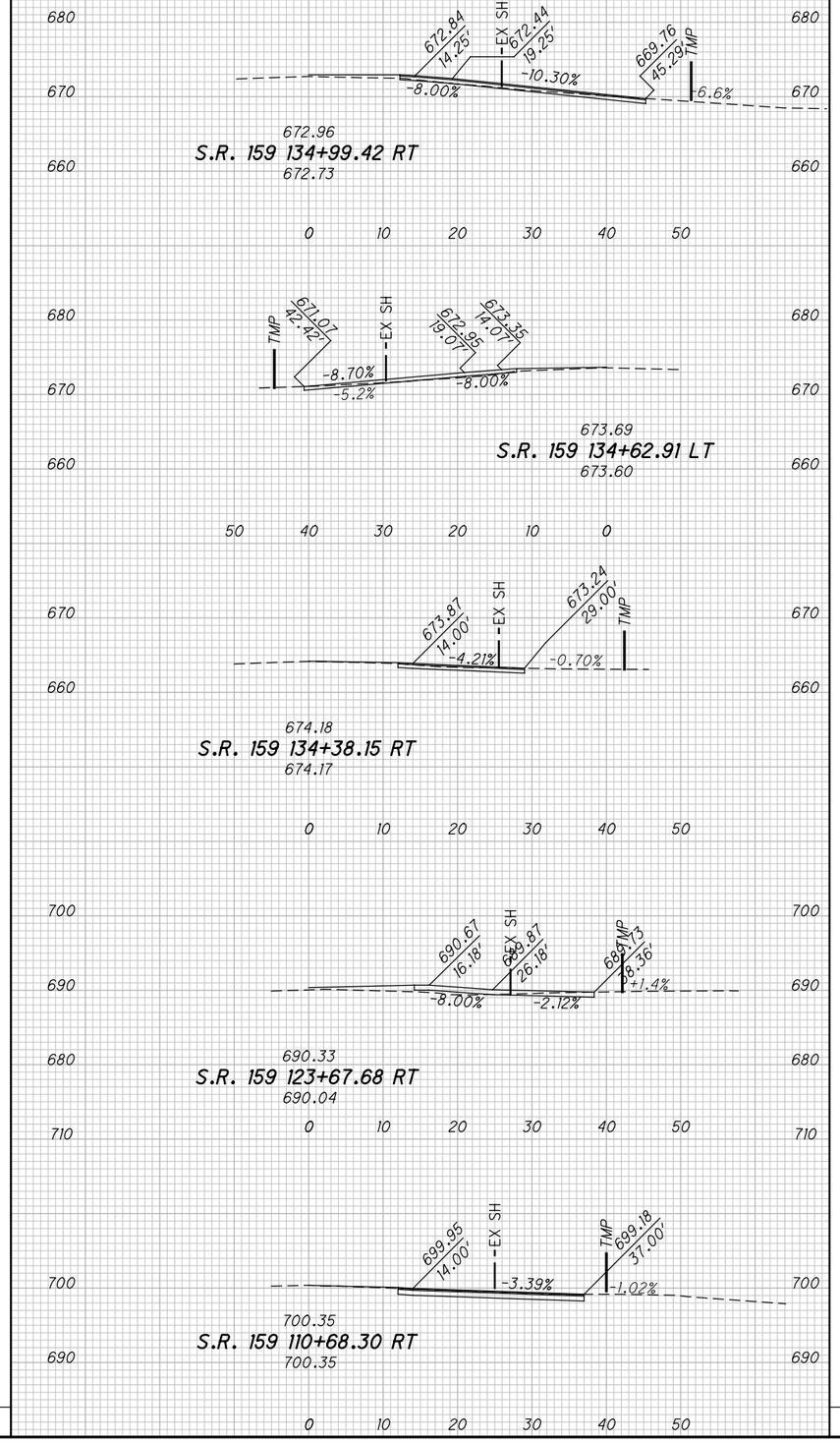
ROS-207-0.00

233
332

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SEEDING	
END WIDTH	SQ. YDS.

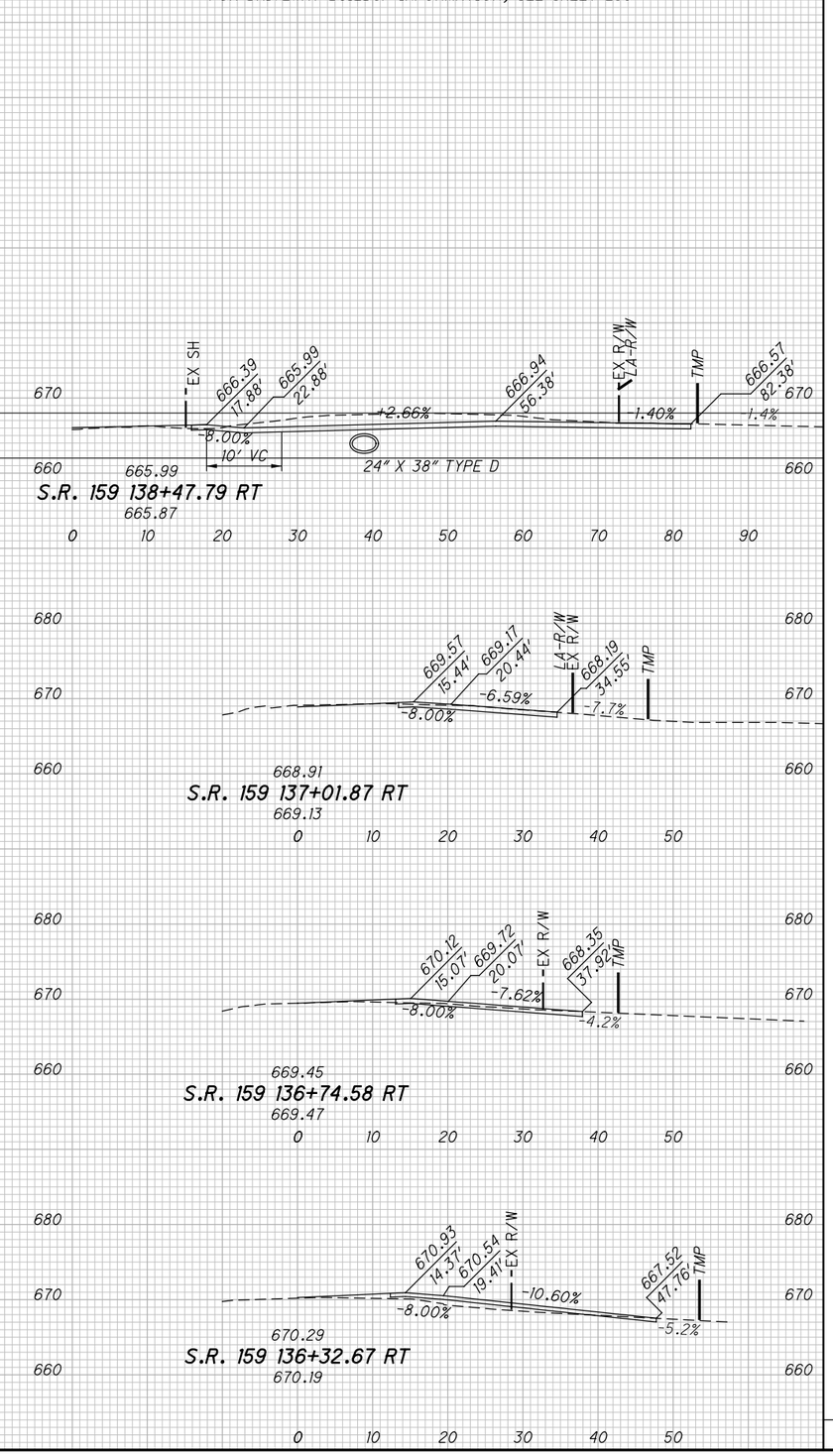
END AREA		VOLUME	
CUT	FILL	CUT	FILL



SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

FOR DRIVEWAY BUILDUP INFORMATION, SEE SHEET 235



CALCULATED MJL
CHECKED DMV

DRIVEWAY PROFILES

S.R. 159 STA. 118+68.30 TO STA. 138+47.79

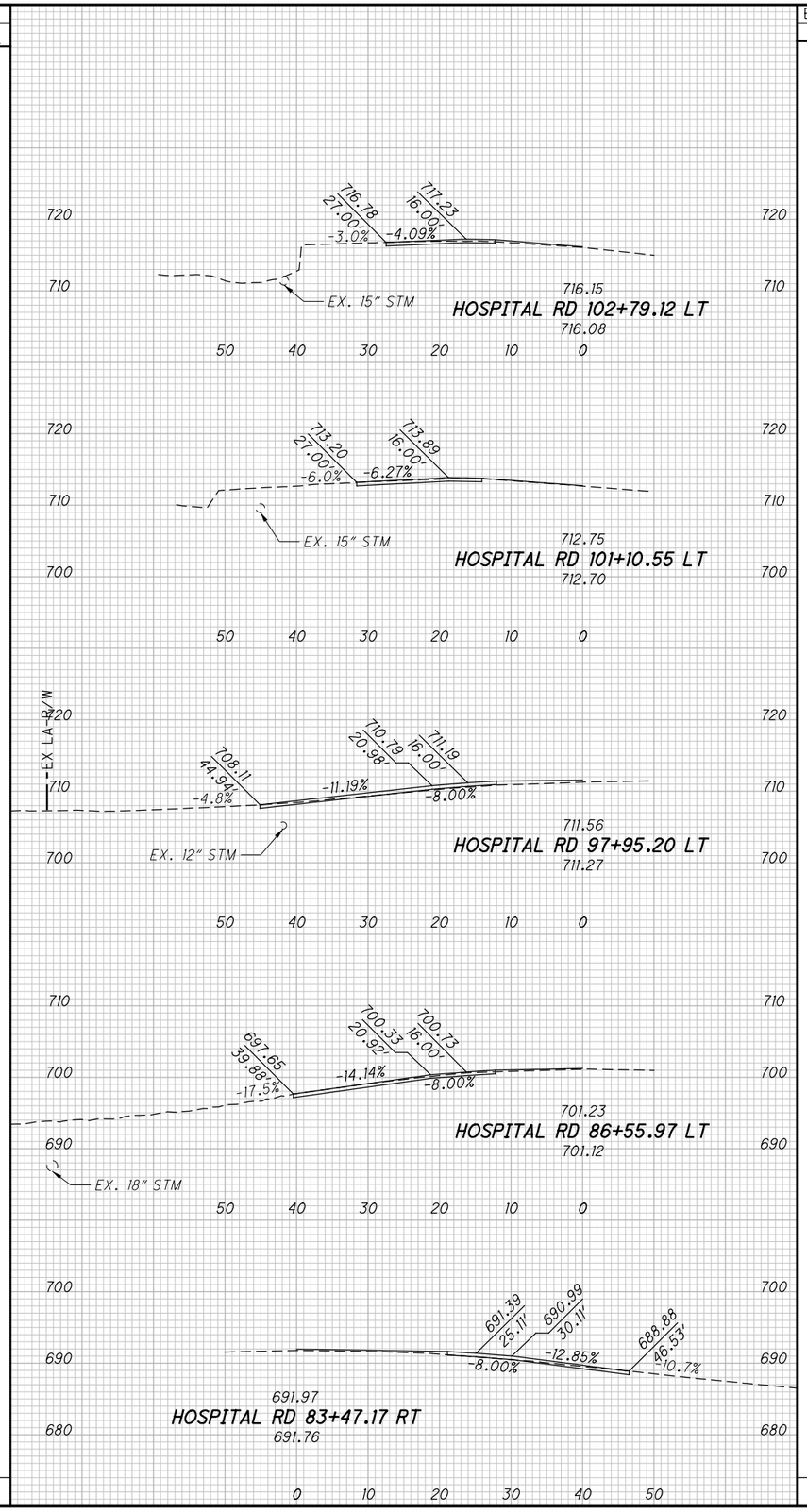
S.R. 159

ROS-207-0.00

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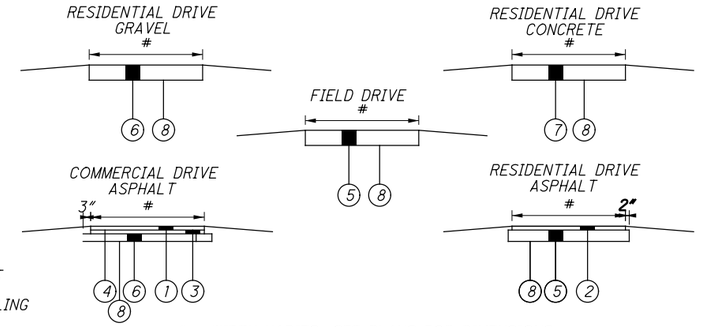
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



DRIVE TYPICAL LEGEND

1. *ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22*
2. *ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22*
3. *ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)*
4. *ITEM 407 - TACK COAT*
5. *ITEM 304 - 6" AGGREGATE BASE*
6. *ITEM 304 - 8" AGGREGATE BASE*
7. *ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT*
8. *ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING*



 # = WIDTH VARIES, SEE PLANS FOR DIMENSIONS.

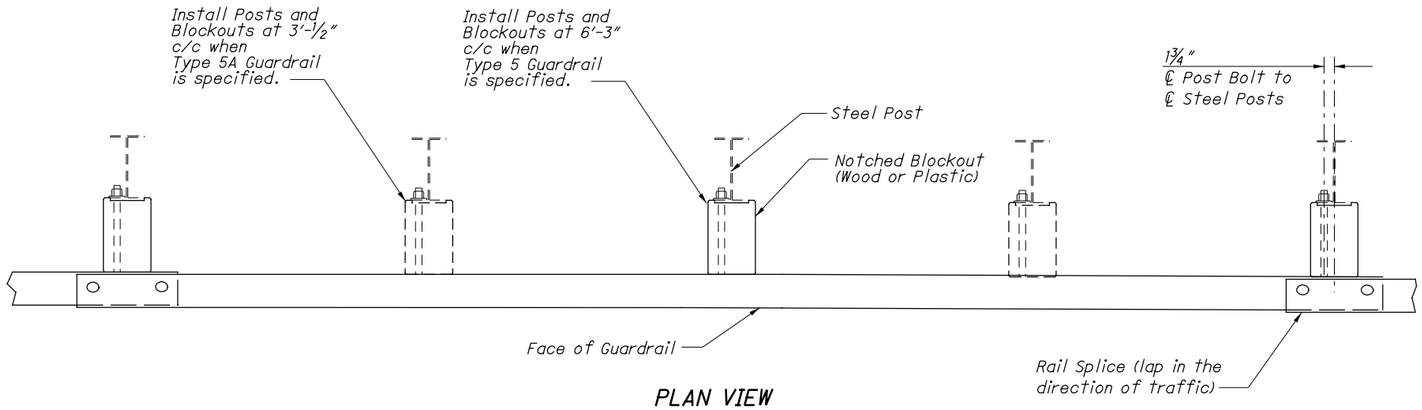
SHEET NO.	LOCATION	STATION	SIDE	204		304		407	441			452
				SUBGRADE COMPACTION	PROOF ROLLING	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	TACK COAT (0.06 SY/GAL)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, 2"	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, 1.25"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), 1.75"	NON-REINFORCED CONCRETE PAVEMENT, 6"
				SF	HOUR	SF	SF	SF	SF	SF	SF	SF
232	S.R. 207	210+00.00	LT	6410	3.21	6410						
232		210+00.00	RT	2423	1.21	2423						
233	S.R. 180	239+56.04	RT	319	0.16		319					
233		240+25.80	LT	304	0.15		304					
233		240+96.33	LT	320	0.16		320					
233		241+00.04	RT	204	0.10		204					
233		241+40.94	LT	214	0.11		214					
233		241+88.04	LT	191	0.10							191
233		242+13.04	RT	249	0.12		249					
233		242+22.37	LT	175	0.09		175					
233		242+59.91	LT	384	0.19		384					
233		243+20.69	RT	310	0.16	310			297			
233		244+09.00	LT	1273	0.64		1273					
233		244+17.54	RT	284	0.14		284					
233		244+82.30	RT	191	0.10	191			183			
234	S.R. 159	110+68.30	RT	1137	0.57		1137	1092		1092	1092	
234		123+67.68	RT	455	0.23		455					
234		134+38.15	RT	207	0.10	207			199			
234		134+62.91	LT	519	0.26	519						
234		134+99.42	RT	377	0.19		377		361			
234		136+32.67	RT	591	0.30							591
234		136+74.58	RT	285	0.14		285					
234		137+01.87	RT	477	0.24		477					
234		138+47.79	RT	872	0.44		872					
113		143+74.85	RT	777	0.39		777					
235	HOSPITAL ROAD	83+47.17	RT	488	0.24	488						
235		86+55.97	LT	473	0.24	473						
235		97+95.20	LT	1059	0.53	1059			1042			
235		101+10.55	LT	474	0.24		474					
235		102+79.12	LT	873	0.44		873					
				SY	HOUR	CY	CY	GAL	CY	CY	CY	SY
SUBTOTALS				2,479	1.24	224	233	7	13	4	6	87
TOTALS CARRIED TO GENERAL SUMMARY				2,479	1.24	457		7	17		6	87

CALCULATED MJL CHECKED DMV

DRIVEWAY PROFILES
HOSPITAL RD. STA. 83+47.17 TO STA. 102+79.12

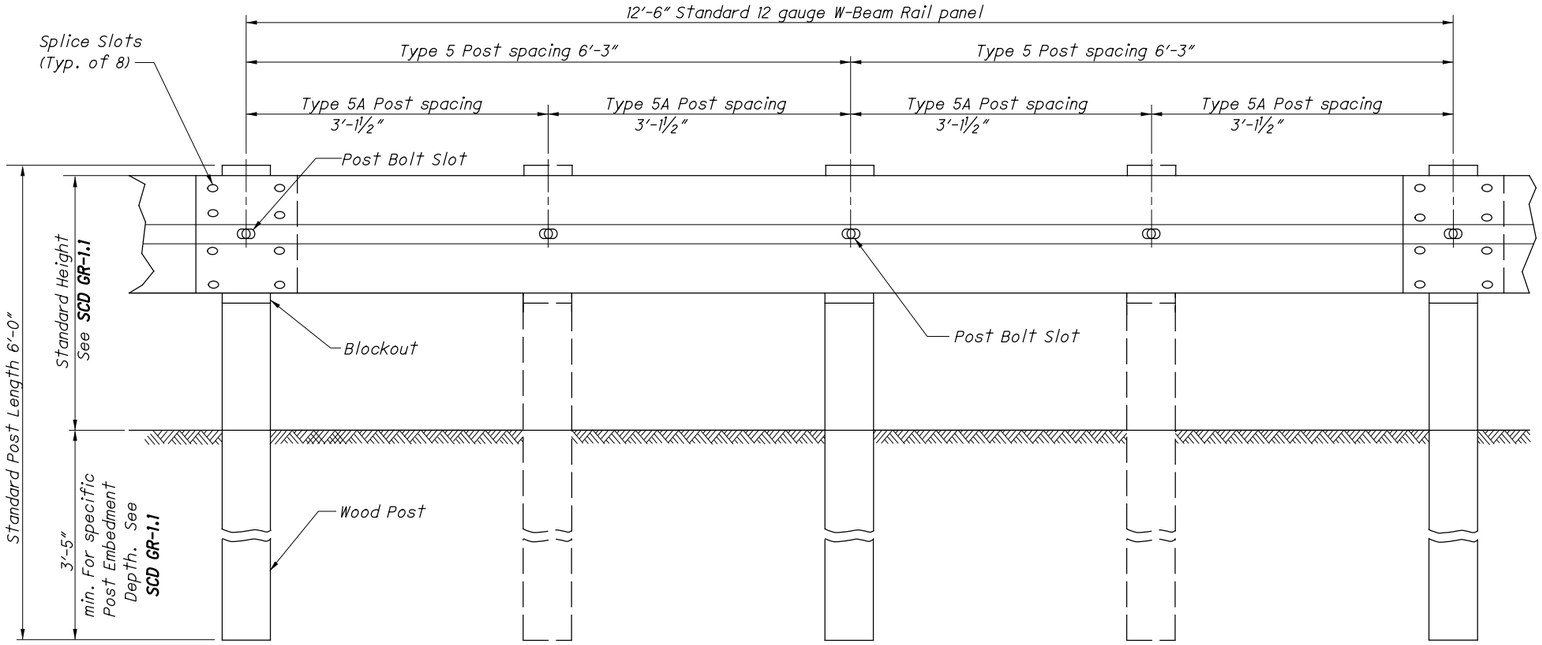
ROS-207-0.00

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PLAN VIEW

(Steel Posts shown)



ELEVATION

(Wood Posts shown)

NOTES

RAIL: *Use W-Beam rail meeting AASHTO M 180 Type II Class A, as specified in CMS 606.*

POSTS: *Posts may be constructed of wood or steel. Wood posts may be round or 6"x8" square-sawed.*

Use round wood posts on runs of single-sided rail. The round posts shall be 8"±1 in diameter at the top and not more than 3" larger at the butt with a uniform taper.

Fabricated wood posts with square ends. Posts shall be pressure-treated as per CMS 710.14. Bore bolt holes and, if required, trim the tops of posts after the posts are set.

Steel posts are to be W6x9 or W6x8.5 galvanized steel. Use the same type of post throughout the length of the project unless otherwise specified in the plans or permitted by the Engineer.

All posts are 6'-0" long unless specified otherwise in the Contract Document. Posts may be set in drilled holes or may be driven to grade.

WELDED BEAM POSTS: *Welded beam guardrail posts may be used for Item 606, Guardrail, provided the web and flange sizes are as shown here. Welding of the web to the flanges must comply with ASTM A 769, Class 1, using Grade 36 steel [250 MPa yield point] with the following exceptions:*

Sec. 7.2 Test reports of tensile properties for each lot shall accompany each shipment.

Sec. 12 Beams that have imperfections repaired by welding shall not be accepted for use in Item 606.

Sec. 13 Random samples shall be tested by the Department from materials delivered to the project site, or other locations designated by the Laboratory.

ALTERNATE POSTS: Engineered guardrail posts having met NCHRP 350 criteria, and listed on the ***Office of Materials Management's*** *Approved List are permitted as an equal alternate when installed according to the Manufacturer's instructions and within the limitations shown on the Approved List.*

BLOCKOUTS: *Blockout dimensions are dependent on post used. Wood Blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved alternate blockouts may be used in lieu of the wood blockouts shown. The approved list is maintained by the* ***Office of Roadway Engineering.***

WASHERS: *Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts.*

DELINEATION: *For barrier reflectors, see CMS 626.*

MISCELLANEOUS: *For other guardrail details, see* ***SCD GR-1.1.***

STEEL BEAM POSTS (English)				
Size	**Beam depth**	**Flange width**	**Flange thickness**	**Web thickness**
Rolled W6x8.5	5.8"	3.94"	0.193"	0.170"
Rolled W6x9	5.9"	3.94"	0.215"	0.170"
Welded 6x8.5	6.0"	3.94"	0.193"	0.170"
Welded 6x9	6.0"	3.94"	0.215"	0.170"

OFFICE OF ROADWAY ENGINEERING

DESIGNED XXX REVIEWED XXX

REVISION DATE 1/18/2013 CHECKED CHECKED

PLAN INSERT SHEET

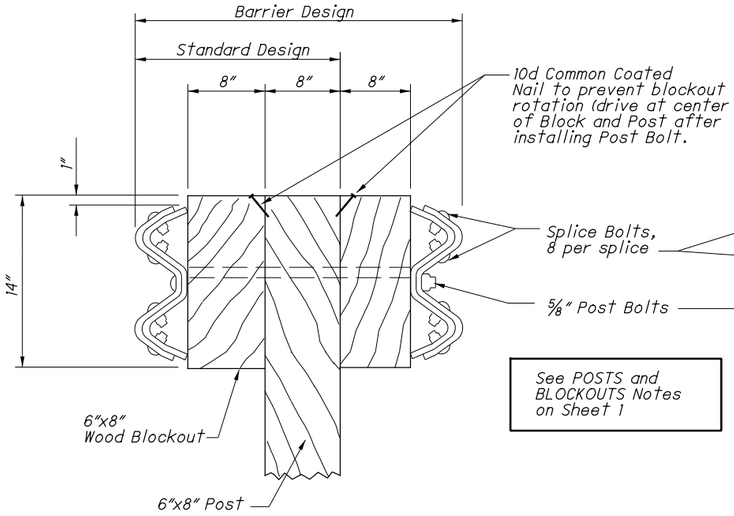
GUARDRAIL TYPE 5 & 5A

PIS GR-2.1

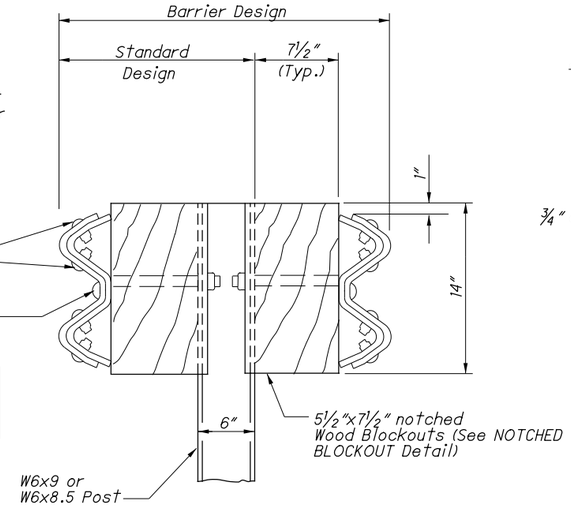
1 / 2

236 / 332

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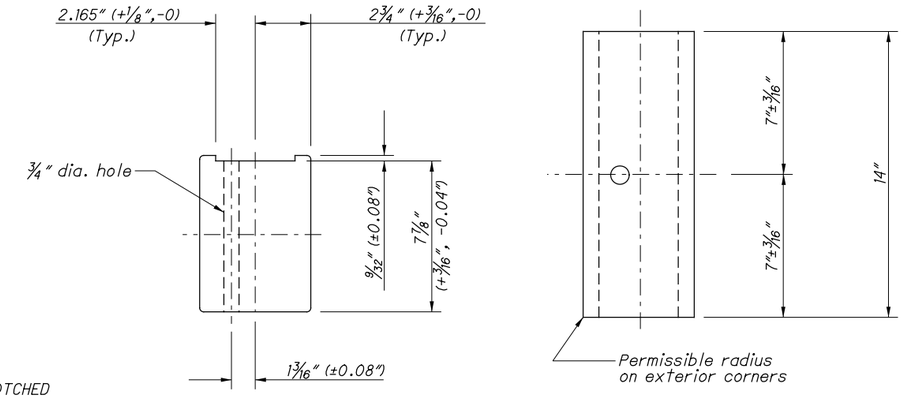


SQUARE WOOD POST



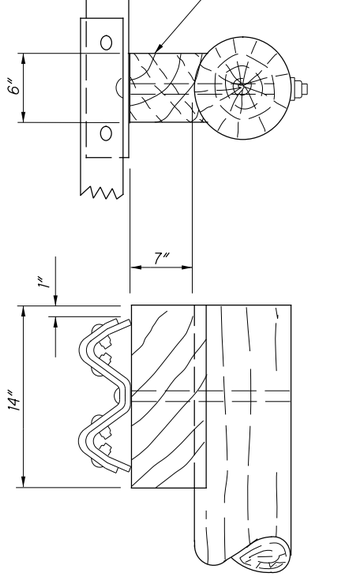
STEEL POST

See POSTS Note, Sheet 1

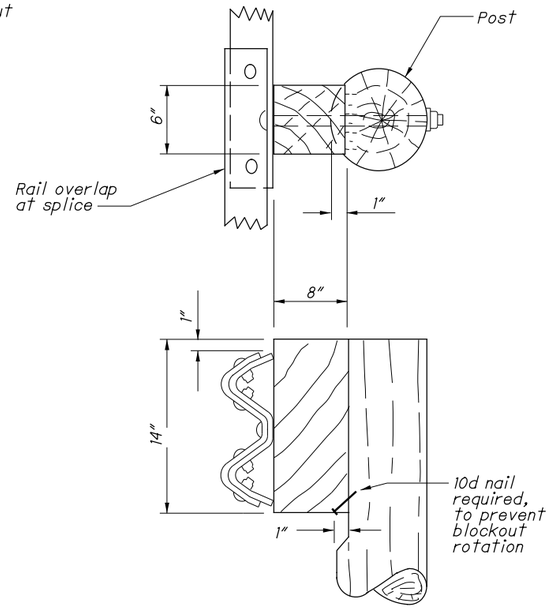


NOTCHED BLOCKOUTS FOR STEEL POSTS

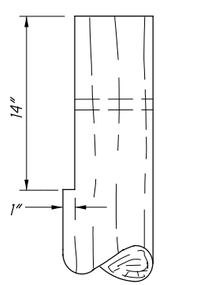
See BLOCKOUTS Note on Sheet 1



Method 1
Routed Blockout



Method 2
Notched Post

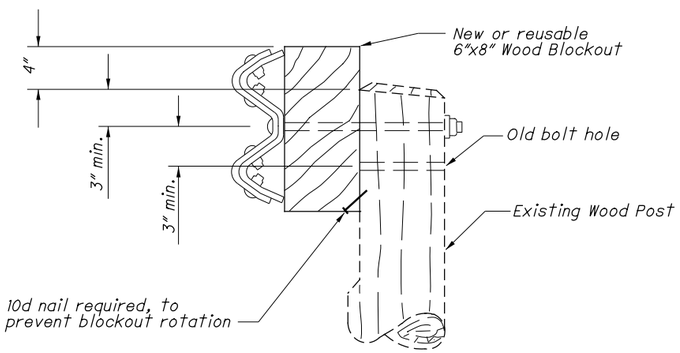


Toenail not required if post is cut as shown

Alternate methods of placing the Blockouts on round Posts may be submitted for consideration and approved by the Engineer.

ROUND WOOD POSTS

Single Sided runs only (Standard Design)



WOOD POSTS WITH WOOD BLOCK RAISING EXISTING GUARDRAIL HEIGHT

OFFICE OF ROADWAY ENGINEERING

DESIGNED XXX REVIEWED XXX

REVISION DATE 1/18/2013 CHECKED CHECKED

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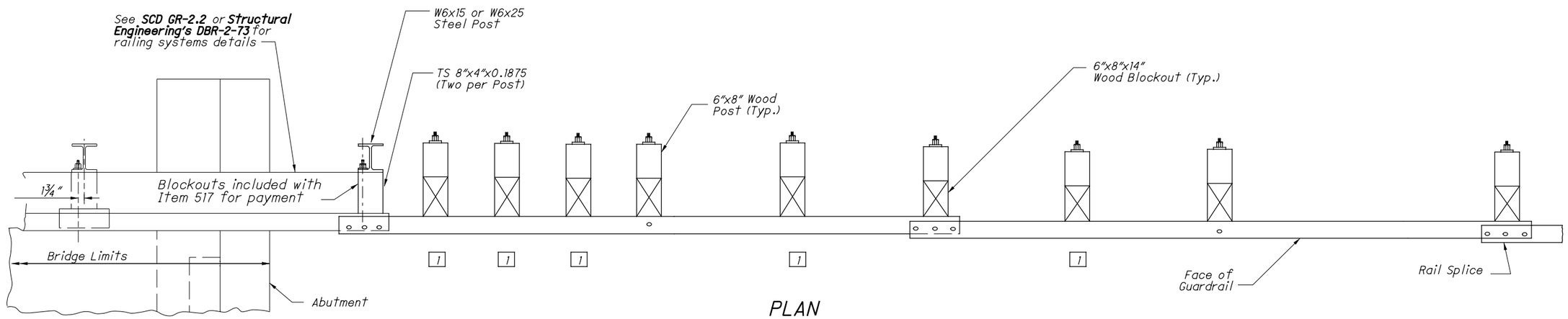
GUARDRAIL TYPE 5 & 5A

PIS GR-2.1

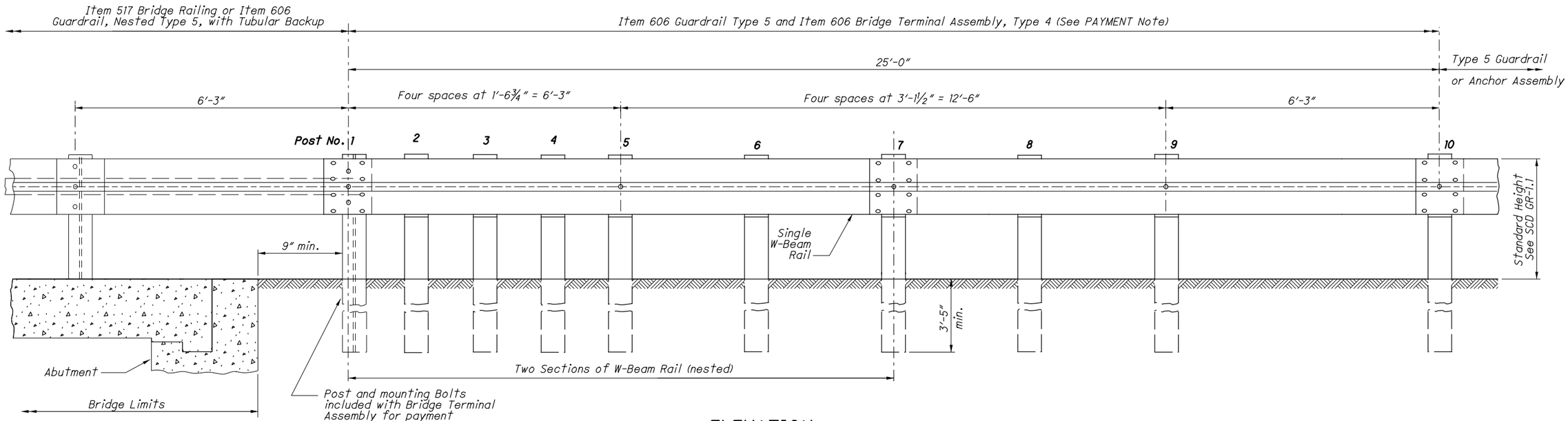
2 / 2

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PLAN



ELEVATION

NOTES

GENERAL: *For additional details, see* ***SCD GR-1.1.***

APPLICATION: *The Type 4 Bridge Terminal Assembly shall connect Type 5 Guardrail runs to Type 5 Guardrail with Tubular Backup or to Deep Beam Bridge Guardrail (as shown on* ***Structural Engineering SCD DBR-2-73****).*

DETAIL INFORMATION: *The first post off the bridge shall be steel (W6x15 or W6x25). All holes in the off-structure end of the approach panel rail section spanning the abutment are slotted ¾"x2½". Tighten the bolts as specified for expansion joints in Item 606.05.*

POSTS: *Posts may be set in drilled holes or driven to grade. See* ***SCD GR-1.1*** *for additional Post embedment details. Guardrail is not attached to certian posts (see LEGEND).*

WOOD POSTS - Use square sawed pressure treated wood as specified in CMS 710.14 and fabricated with square ends. Bore bolt holes and trim the tops of posts, if required after the posts are set.

STEEL POSTS - are allowed as an alternate. Use W6x9 or W6x8.5 in lieu of the 6"x8" wood post. Use same post material through-out assembly.

BLOCKOUTS: *Approved alternate blockouts can be found on the Office of Roadway Engineering website. Steel blockouts are not permitted.*

FLARED GUARDRAIL: *Start Standard Guardrail Flares as shown on* ***SCD GR-5.1*** *at or beyond Post No. 10; however, the flare may begin at Post No. 7.*

PAYMENT: Item 606 - Bridge Terminal Assembly, Type 4, Each, *includes the cost of extra components in excess of normal guardrail, such as additional posts and other hardware. The TS 8"x4" spacers and tubular backup rail extending to the first post off the bridge is included with* ***Item 517 - Railing,*** *or* ***Item 606 - Guardrail, Nested Type 5 with Tubular Backup,*** *for payment.*

LEGEND

[1] *Guardrail is not attached to posts at Posts 2, 3, 4, 6, and 8. Blockout is fastened to post with standard Post Bolt.*

OFFICE OF ROADWAY ENGINEERING

DESIGNED XXX REVIEWED XXX

REVISION DATE 7/20/2018 CHECKED CHECKED

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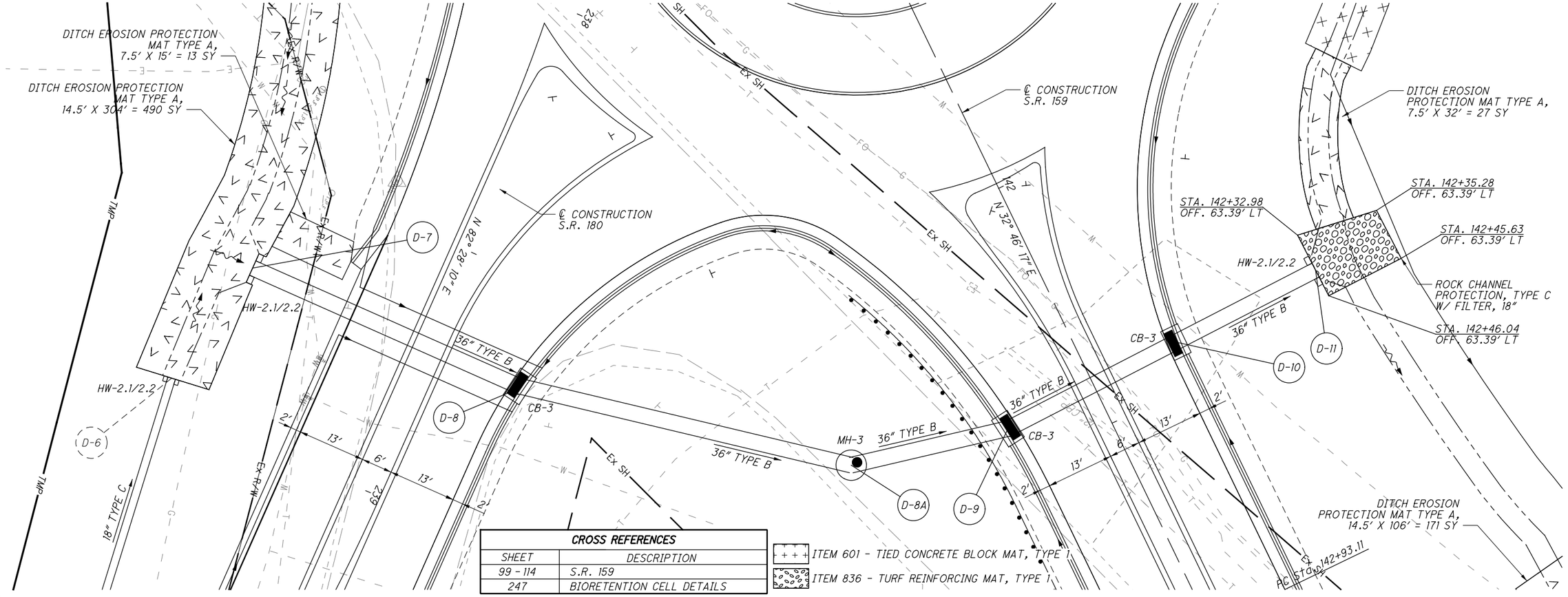
BRIDGE TERMINAL ASSEMBLY, TYPE 4

PIS GR-3.4

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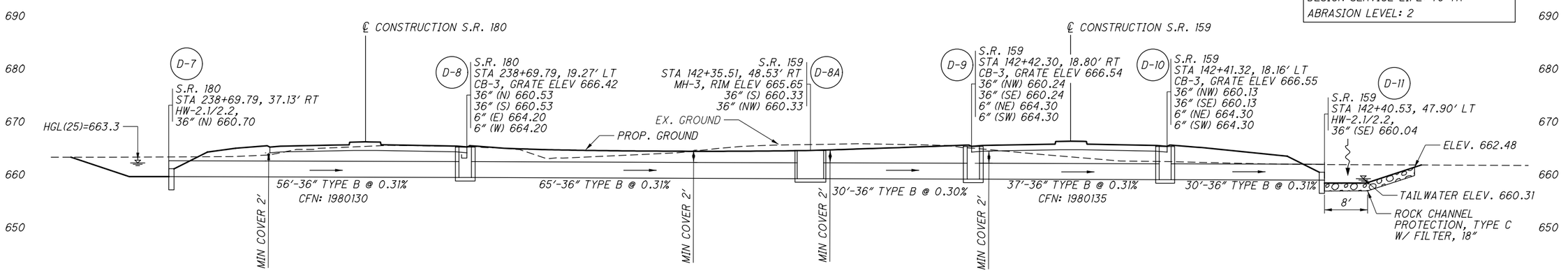
CROSS REFERENCES	
SHEET	DESCRIPTION
99 - 114	S.R. 159
247	BIORETENTION CELL DETAILS

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

ITEM 836 - TURF REINFORCING MAT, TYPE 1

MATERIAL ALTERNATIVES: 706.02, 707.12 (0.064), 707.13 (0.064) ALUMINIZED, 707.33

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 31 ACRES
Q(10): 28.7 CFS
Q(25): 33.6 CFS
HGL(25): 663.3 FT
V(10): 5.2 FT/S
pH: 7.4
DESIGN SERVICE LIFE: 75 YR
ABRASION LEVEL: 2



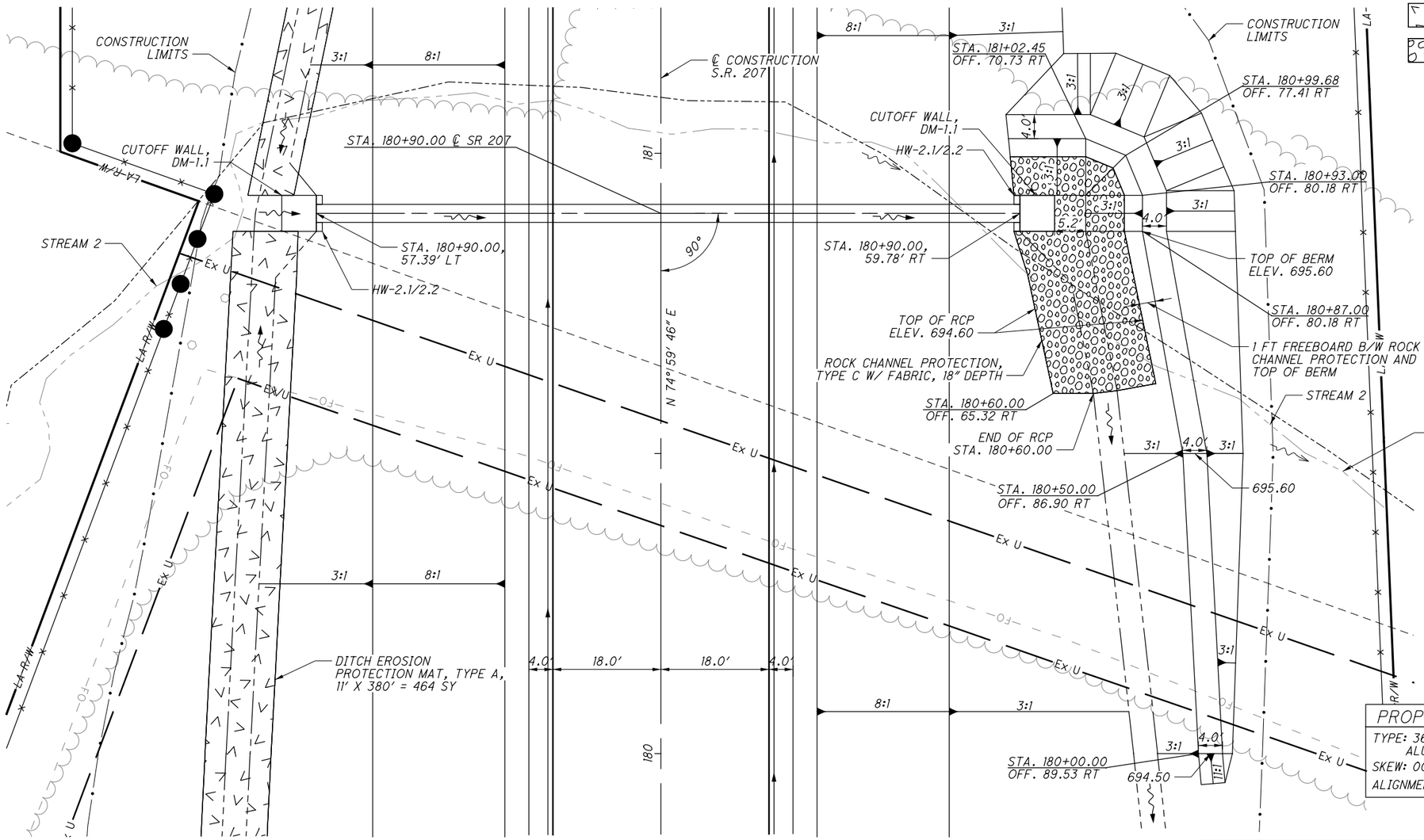
STORM SEWER PROFILES
S.R. 159 & S.R. 180 ROUNDABOUT

CALCULATED ARG
CHECKED PHF

ROS-207-0.00

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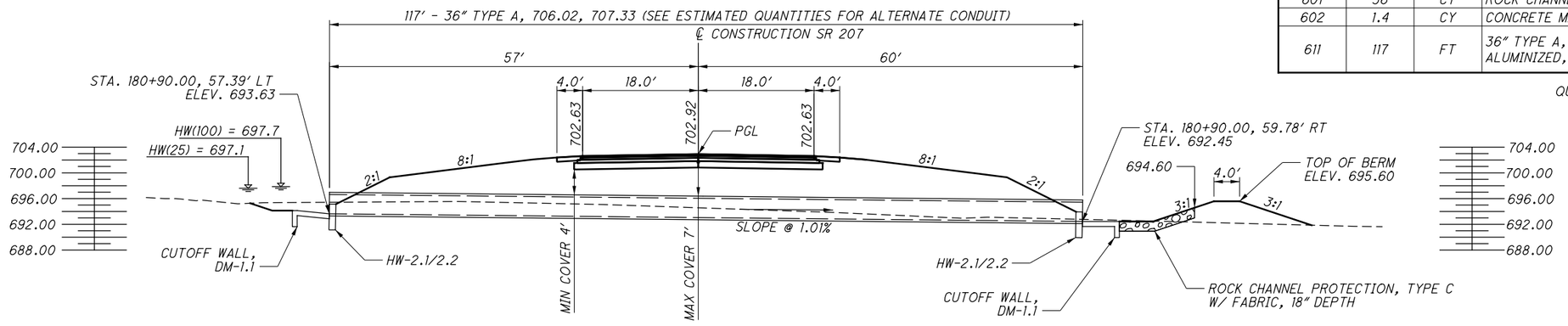


HYDRAULIC DESIGN DATA

DRAINAGE AREA: 47 ACRES
Q(25): 43.0 CFS
Q(100): 51.6 CFS
HW(25): 697.1 FT
HW(100): 697.7 FT
V(25): 10.0 FT/S
V(100): 10.5 FT/S
pH: 7.4
OWHM: 694.9 FT
DESIGN SERVICE LIFE: 75 YR
ABRASION LEVEL: 1
CFN: 1980133

PROPOSED STRUCTURE

TYPE: 36" TYPE A, 706.02, 707.33; 42" TYPE A, 707.01 (0.064) ALUMINIZED, 707.04 (0.064), 707.05 (0.064)
SKEW: 00°
ALIGNMENT: TANGENT



ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
601	8	SY	RIPRAP, TYPE D - CONSTRUCT 6" REINFORCED CONCRETE SLAB
601	36	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
602	1.4	CY	CONCRETE MASONRY
611	117	FT	36" TYPE A, 706.02, 707.33; 42" TYPE A, 707.01 (0.064) ALUMINIZED, 707.04 (0.064), 707.05 (0.064)

QUANTITIES CARRIED TO GENERAL SUMMARY

HORIZONTAL SCALE IN FEET
0 5 10 20

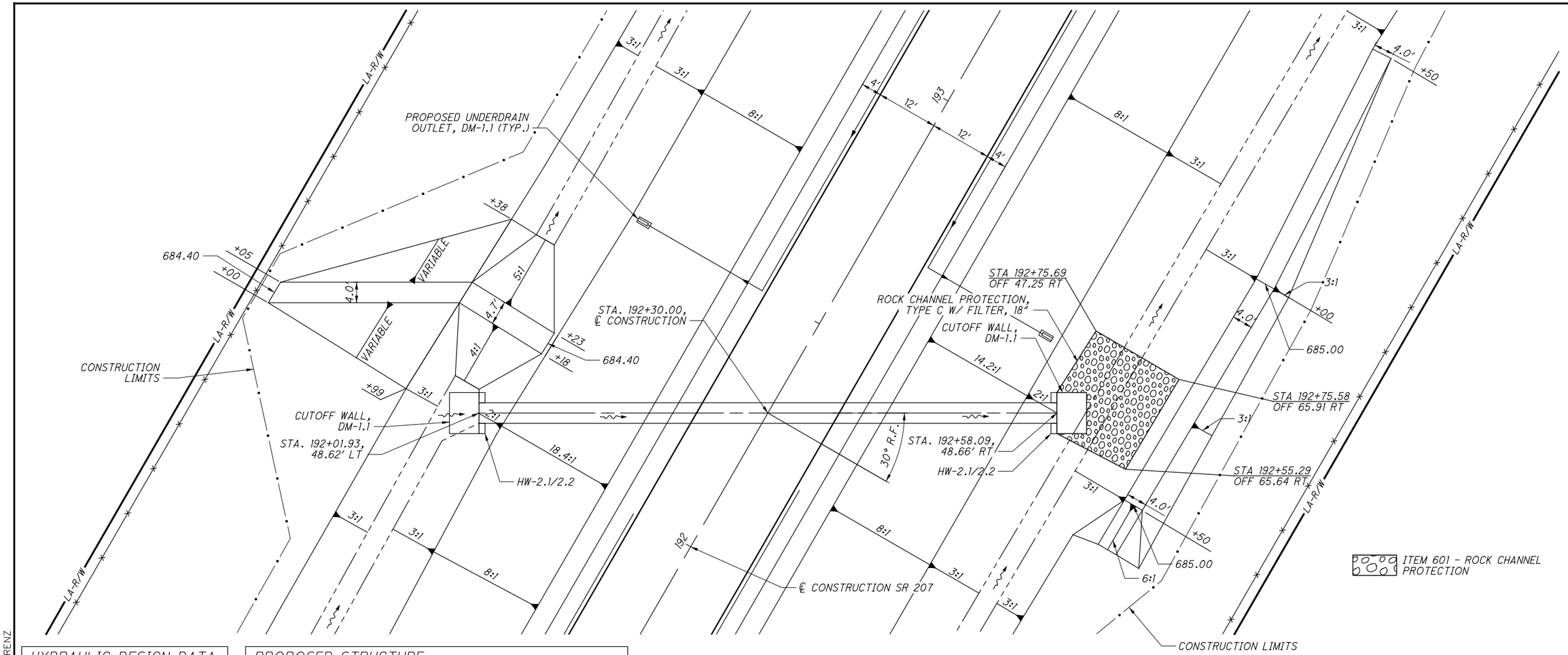
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CULVERT DETAIL
S.R. 207 STA. 180+90.00

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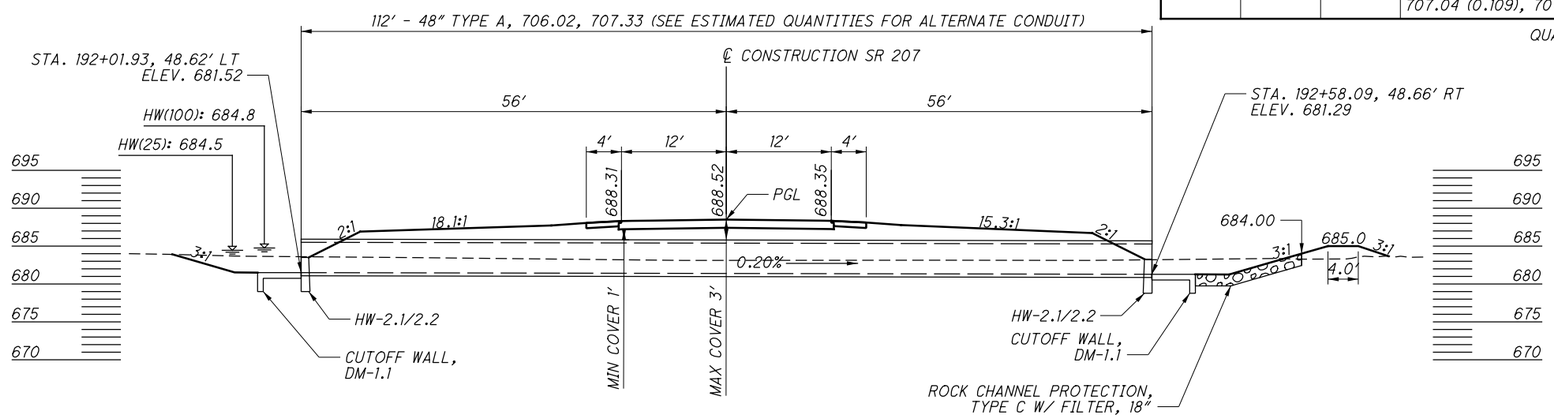


HYDRAULIC DESIGN DATA

DRAINAGE AREA: 50 ACRES
Q(25): 40.6 CFS
Q(100): 48.9 CFS
HW(25): 684.5 FT
HW(100): 684.8 FT
V(25): 6.0 FT/S
V(100): 6.5 FT/S
pH: 7.4
OHWM: 683.0 FT
DESIGN SERVICE LIFE: 75 YR
ABRASION LEVEL: 1
CFN: 1980134

PROPOSED STRUCTURE

TYPE: 48" TYPE A, 706.02, 707.33; 57" X 38" TYPE A, 707.01 (0.109) GALVANIZED W/ PAVED INVERT, 707.01 (0.109) ALUMINIZED, 707.04 (0.109), 707.05 (0.109)
SKEW: 30° R.F.
ALIGNMENT: TANGENT



ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
601	10	SY	RIPRAP TYPE D, CONSTRUCT A 6" REINFORCED CONCRETE SLAB
601	18	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
602	2.2	CY	CONCRETE MASONRY
611	112	FT	48" TYPE A, 706.02, 707.33; 57" X 38" TYPE A, 707.01 (0.109) GALVANIZED W/ PAVED INVERT, 707.01 (0.109) ALUMINIZED, 707.04 (0.109), 707.05 (0.109)

QUANTITIES CARRIED TO GENERAL SUMMARY

HORIZONTAL SCALE IN FEET
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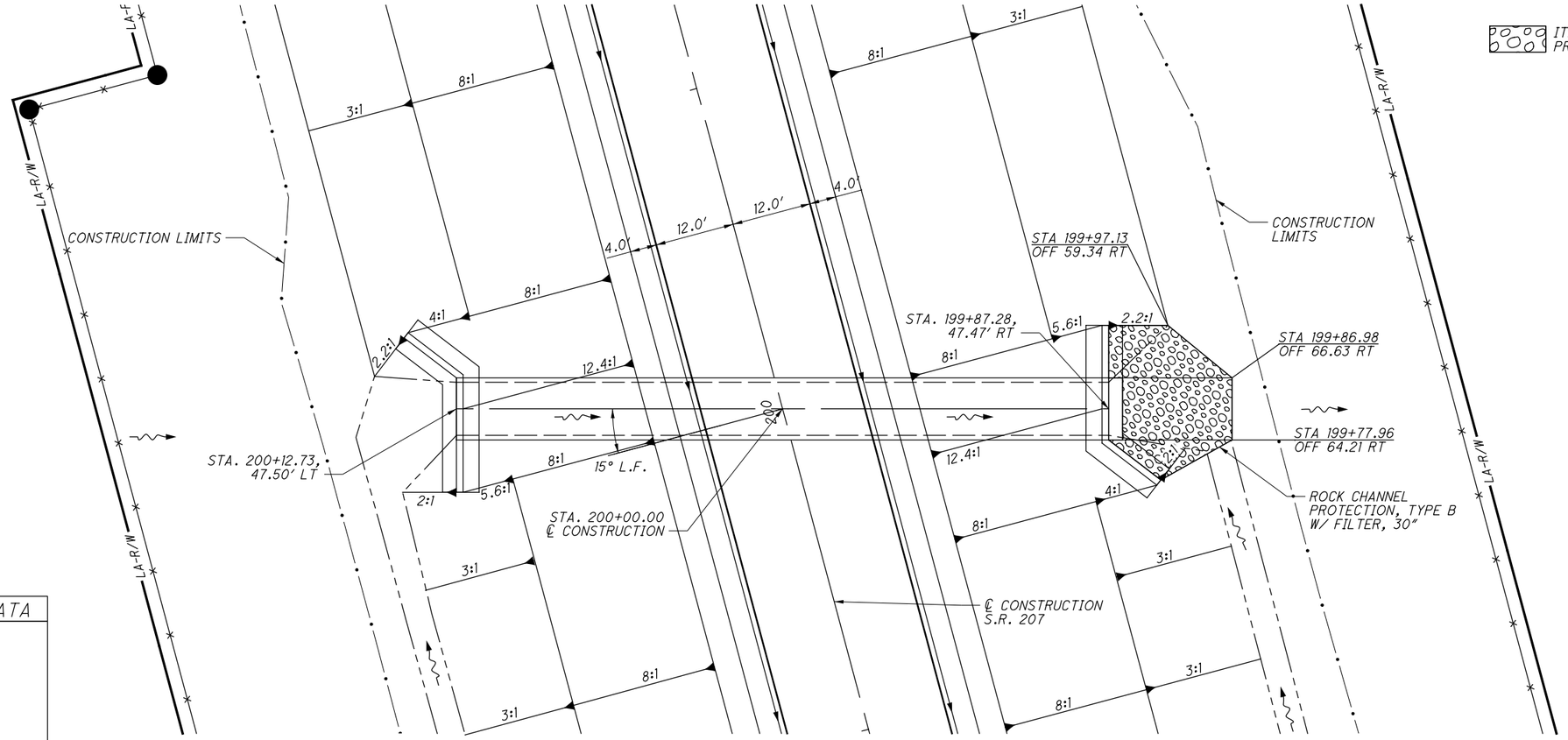
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CULVERT DETAIL
S.R. 207 STA. 192+30.00

ROS-207-0.00

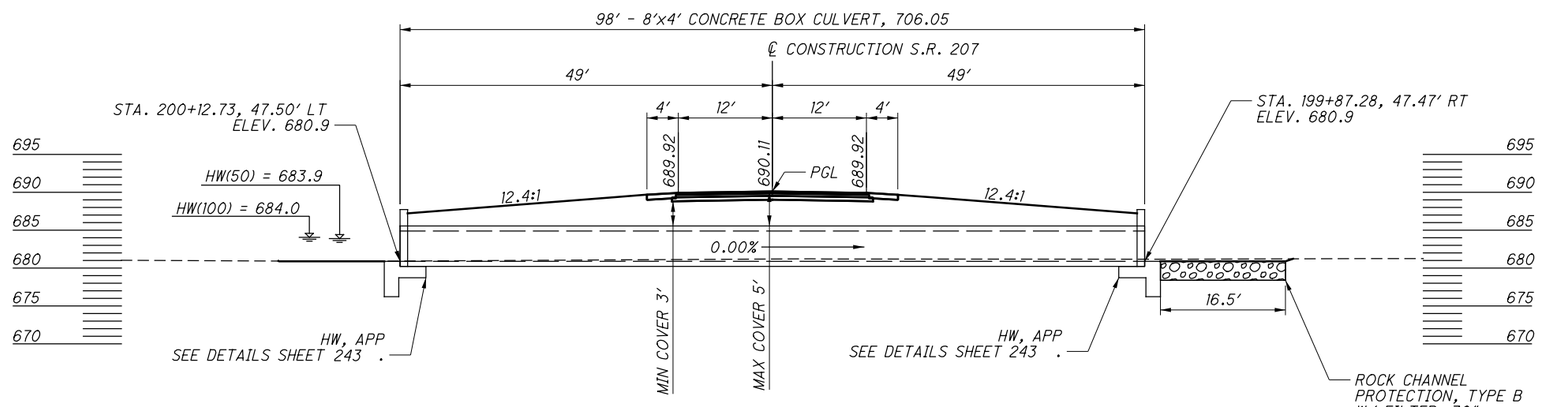
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HYDRAULIC DESIGN DATA
DRAINAGE AREA: 113 ACRES
Q(50): 124.4 CFS
Q(100): 134.8 CFS
HW(50): 683.9 FT
HW(100): 684.0 FT
V(50): 7.9 FT/S
V(100): 8.2 FT/S
pH: 7.4
OWHM: 681.6
DESIGN SERVICE LIFE: 75 YR
ABRASION LEVEL: 1
CFN: 1980139

PROPOSED STRUCTURE
TYPE: 8'x4' CONCRETE BOX CULVERT
SKEW: 15° L.F.
ALIGNMENT: TANGENT



N

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED ARG
CHECKED PHF

CULVERT DETAIL
S.R. 207 STA. 200+00.00

ROS-207-0.00

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, SEVENTH EDITION, INCLUDING THE 2016 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA

INTERNAL ANGLE OF FRICTION OF BACKFILL SOIL, ϕ_u = 30°

TOTAL UNIT WEIGHT OF BACKFILL SOIL = 120 PCF

INTERNAL ANGLE OF FRICTION (DRAINED), FOUNDATION SOIL, ϕ, = 28°

UNDRAINED SHEAR STRENGTH (COHESIVE), FOUNDATION SOIL, S_u = 1500 PSF

UNIT WEIGHT OF CONCRETE = 150 PCF

SLOPE OF BACKFILL = 2H:1V

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI
(FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI
ALL REINFORCING SHALL BE EPOXY COATED

REINFORCING STEEL COVER

MINIMUM CONCRETE COVER OVER REINFORCING STEEL IS 2 INCHES UNLESS NOTED OTHERWISE IN THE PLANS.

FORESLOPE WALL ANCHOR DOWELS

ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED ON SHEET 245/332. PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611.

POROUS BACKFILL WITH GEOTEXTILE FABRIC

POROUS BACKFILL WITH GEOTEXTILE FABRIC 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND 12 INCHES BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC TYPE A SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6 INCHES ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

WEEPHOLES SHALL BE PLACED 6 TO 12 INCHES ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL.

PREFORMED EXPANSION JOINT FILLER

PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

SEALING OF FORESLOPE WALL AND WINGWALLS

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS TO THE RIGHT. PAYMENT FOR THE EPOXY- URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.

WATERPROOFING

TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

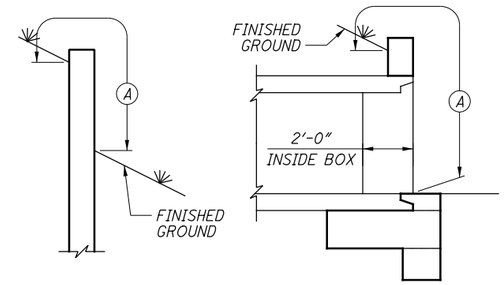
TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND 1 FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

GRANULAR BACKFILL

A 2-FOOT-DEEP OVER-EXCAVATION IS REQUIRED AT THE INLET AND OUTLET FOUNDATIONS. BACKFILL EXCAVATION WITH 18 INCHES OF GRANULAR MATERIAL TYPE D OVERLAIN WITH 6 INCHES OF GRANULAR MATERIAL TYPE B.

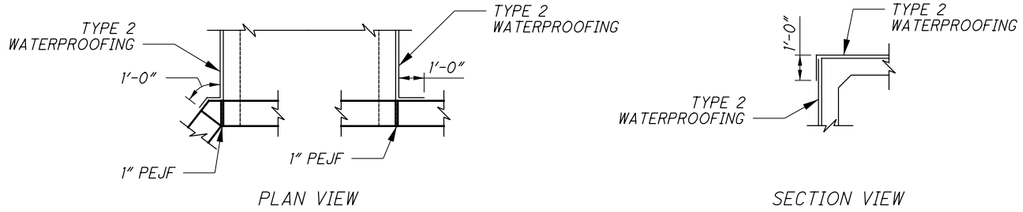
ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN

THE DEPARTMENT WILL PERMIT THE USE OF PRECAST CONCRETE IN LIEU OF CAST-IN-PLACE CONCRETE FOR HEADWALLS AND WINGWALLS IN ACCORDANCE WITH C&MS 602.03. THE DEPARTMENT WILL PAY FOR THE WINGWALL AND HEADWALL CONCRETE IN SQUARE YARD AS DETERMINED FROM PLAN DIMENSIONS USING THE WALL HEIGHTS ABOVE THE FOOTING AND LENGTH ALONG THE EXTERIOR FACES OF THE WALLS. THE DEPARTMENT WILL CONSIDER THE REINFORCING STEEL IN THE WINGWALLS AND HEADWALLS, INCLUDING THE REINFORCEMENT THAT EXTENDS INTO THE FOOTINGS, AS INCIDENTAL TO THE RETAINING/WINGWALL CONCRETE. THE TOTAL QUANTITY OF CAST-IN-PLACE WINGWALL AND HEADWALL CONCRETE IS 11 CU. YD. THE TOTAL QUANTITY OF CAST-IN-PLACE WINGWALL AND HEADWALL REINFORCING STEEL IS 1,546 LBS.



LIMITS OF ITEM 512 - SEALING OF CONCRETE SURFACES

(A) - SEAL ENTIRE CONCRETE SURFACE AREA (INCLUDING ENDS)



WATERPROOFING DETAILS

ESTIMATED QUANTITIES

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
203	35110	9	CY	GRANULAR MATERIAL, TYPE B
203	35130	25	CY	GRANULAR MATERIAL, TYPE D
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING
503	21300	LUMP		UNCLASSIFIED EXCAVATION
509	10000	2,366	LB.	EPOXY COATED REINFORCING STEEL
511	46001	30	SY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN
511	46510	26	CY	CLASS QC1 CONCRETE, FOOTING
512	10100	56	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	33000	238	SY	TYPE 2 WATERPROOFING
516	13600	30	SF	1" PREFORMED EXPANSION JOINT FILLER
518	21230	LUMP		POROUS BACKFILL WITH GEOTEXTILE FABRIC
601	32100	30	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
611	94800	98	LF	8' X 4' CONDUIT, TYPE A, 706.05

NOTE: TOTALS CARRIED TO GENERAL SUMMARY SHEET

HORIZONTAL SCALE IN FEET
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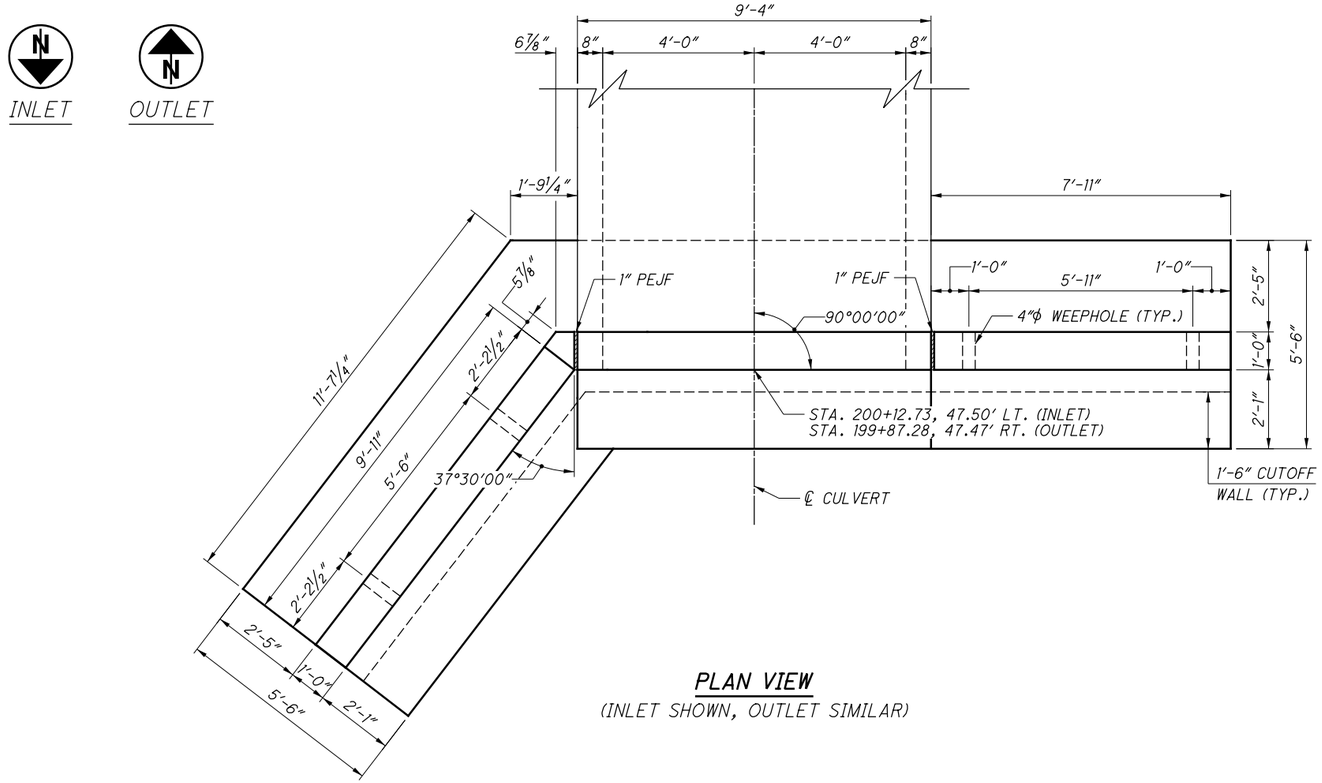
CALCULATED NJH
CHECKED BTA

GENERAL NOTES AND ESTIMATED QUANTITIES
S.R. 207 STA. 200+00.00

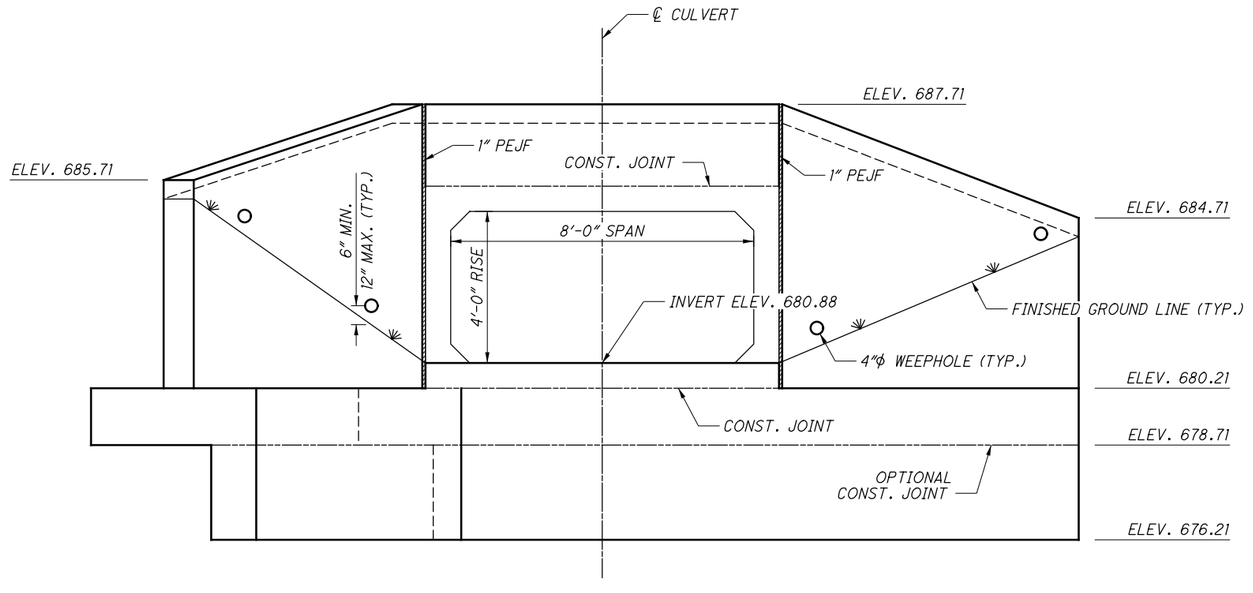
ROS-207-0.00

243
332

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PLAN VIEW
(INLET SHOWN, OUTLET SIMILAR)



ELEVATION VIEW
(INLET SHOWN, OUTLET SIMILAR)

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 243/332.
2. FOR REINFORCING DETAILS, SEE SHEET 245/332.
3. FOR REINFORCING STEEL LIST, SEE SHEET 246/332.

HORIZONTAL SCALE IN FEET
0

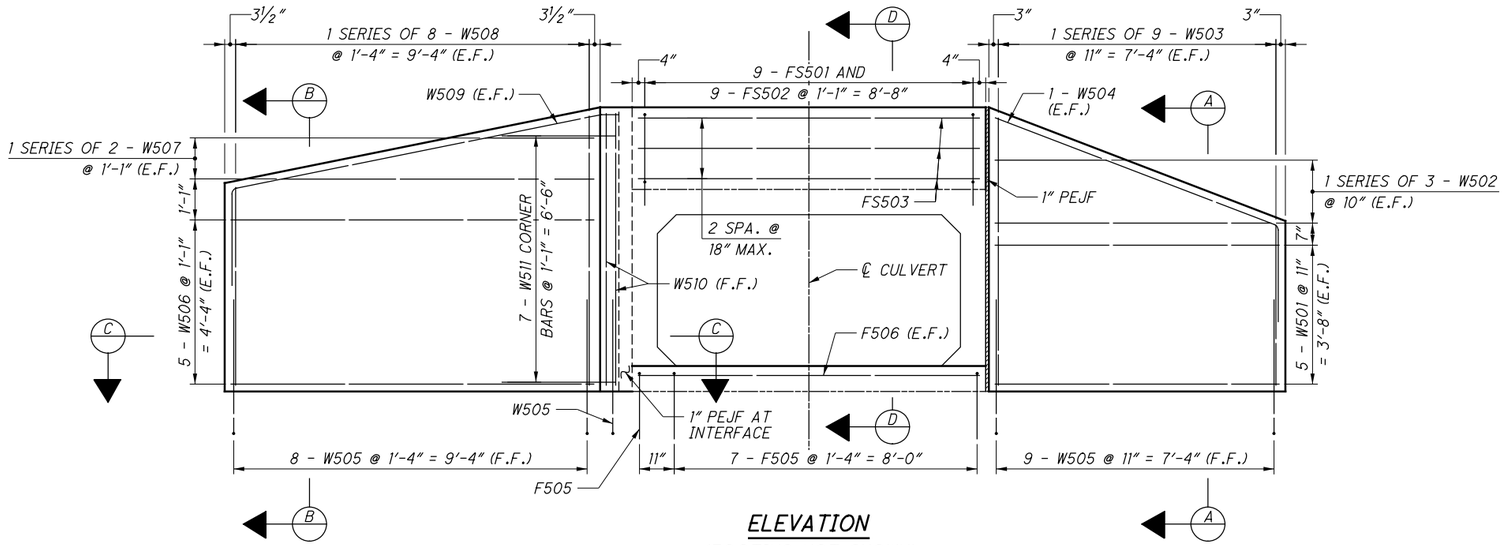
CALCULATED NJH
CHECKED BTA

INLET AND OUTLET PLAN AND ELEVATION
S.R. 207 STA. 200+00.00

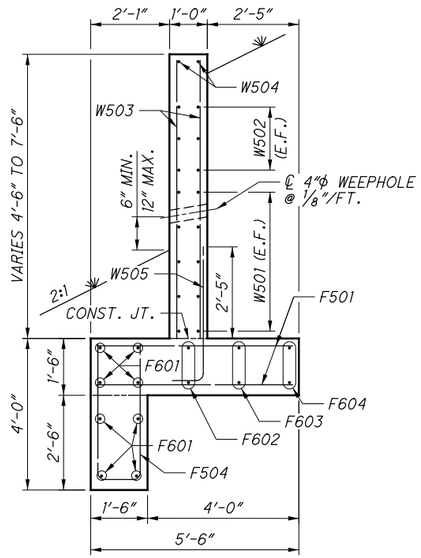
ROS-207-0.00

244
332

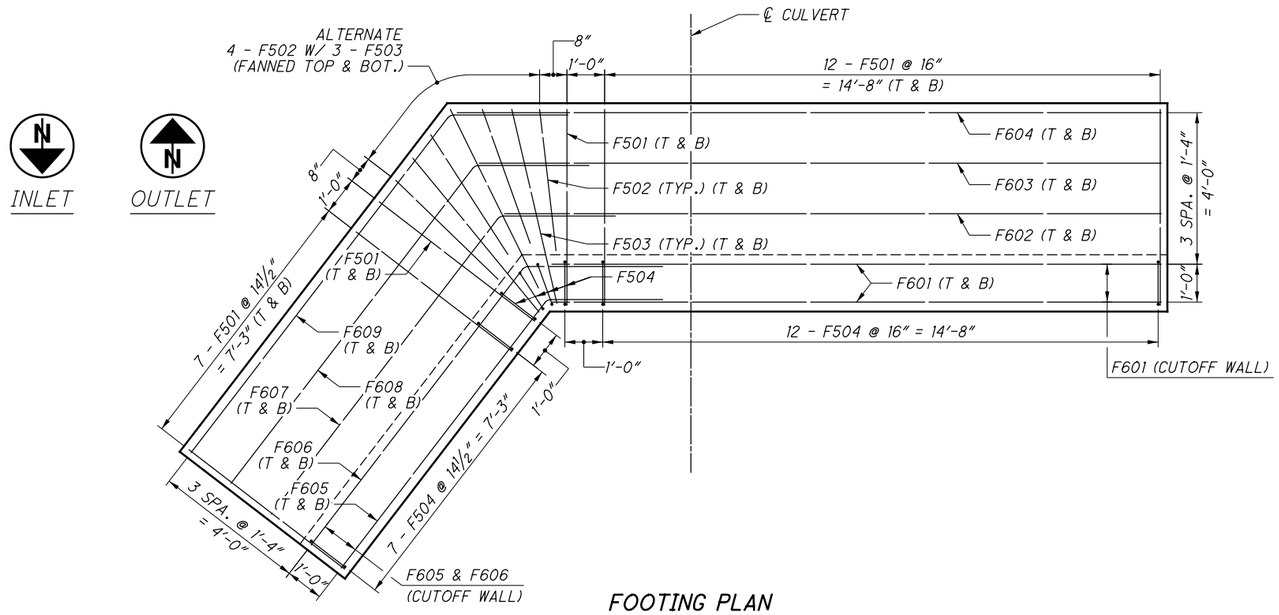
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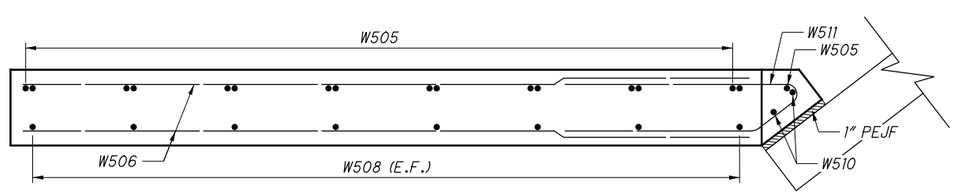
ELEVATION
(FOOTING NOT SHOWN)



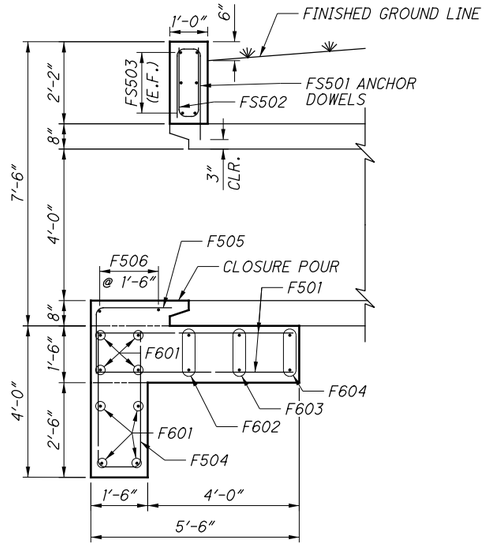
A SECTION
(SECTION B SIMILAR)



FOOTING PLAN
(F505 & F506 BARS NOT SHOWN FOR CLARITY)



C SECTION



D SECTION
(CULVERT INLET BEVEL
SHOWN. SEE NOTE 5)

NOTES:

1. FOR CULVERT LOCATION PLAN, SEE SHEET 242/332.
2. FOR GENERAL NOTES, SEE SHEET 243/332.
3. FOR REINFORCING STEEL LIST, SEE SHEET 246/332.
4. MINIMUM LAP SPLICE LENGTHS ARE 2'-5" FOR #5 BARS, AND 2'-11" FOR #6 BARS.
5. THE CULVERT OUTLET SECTION SHALL BE WITHOUT THE PROTRUDING TONGUE JOINT.

HORIZONTAL SCALE IN FEET
0

CALCULATED NJH
CHECKED BTA

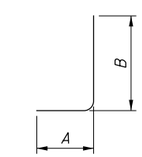
WINGWALL AND FOOTING DETAILS
S.R. 207 STA. 200+00.00

ROS-207-0.00

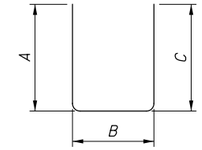
245
332

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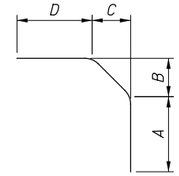
MARK	NUMBER TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS A	B	C	D	E	R	INC.
FOOTING											
F501	84	5'-2"	453	STR							
F502	16	3'-9"	63	STR							
F503	12	5'-3"	66	STR							
F504	46	8'-1"	388	2	3'-7"	1'-2"	3'-7"				
F505	16	3'-7"	60	1	2'-0"	1'-9"					
F506	4	9'-0"	38	STR							
F601	16	16'-1"	387	STR							
F602	4	17'-4"	104	STR							
F603	4	18'-0"	108	STR							
F604	4	18'-7"	112	STR							
F605	8	13'-0"	156	19	8'-10"	2'-8"	3'-3"				
F606	8	13'-11"	167	19	9'-2"	3'-0"	3'-9"				
F607	4	14'-0"	84	19	9'-10"	2'-8"	3'-3"				
F608	4	14'-8"	88	19	10'-6"	2'-8"	3'-3"				
F609	4	15'-4"	92	19	11'-2"	2'-8"	3'-4"				
	SUB-TOTAL		2366								
WINGWALLS											
W501	20	7'-6"	156	STR							
	4	2'-11"									
W502	SER. OF	TO	64	STR							2'-2"
	3	7'-3"									
	4	4'-3"									
W503	SER. OF	TO	213	STR							4 1/2"
	9	7'-1"									
W504	4	10'-5"	43	19	7'-11"	1'-0"	2'-5"				
W505	36	4'-3"	160	1	0'-10"	3'-7"					
W506	20	9'-7"	200	STR							
	4	2'-10"									
W507	SER. OF	TO	46	STR							5'-5"
	2	8'-3"									
	4	5'-3"									
W508	SER. OF	TO	206	STR							3 1/2"
	8	7'-1"									
W509	4	12'-11"	54	13	2'-7"	1'-11"	9'-10"	0'-5"			
W510	4	7'-2"	30	STR							
W511	14	6'-7"	96	37	3'-1"	0'-8"	0'-8"	2'-5"			
	SUB-TOTAL		1268								
FORESLOPE WALL											
FS501	18	4'-8"	88	2	1'-10"	0'-8"	2'-5"				
FS502	18	4'-1"	77	2	1'-10"	0'-8"	1'-10"				
FS503	12	9'-0"	113	STR							
	SUB-TOTAL		278								



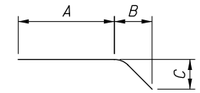
TYPE-1



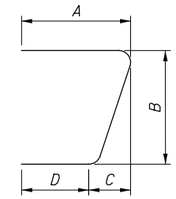
TYPE-2



TYPE-13



TYPE-19



TYPE-37

NOTES:

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
2. BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK COLUMN. THE MARK BEGINS WITH ONE TO TWO LETTERS THAT IDENTIFY THE BAR LOCATION. THE LAST TWO DIGITS ARE THE SEQUENCE NUMBER.
   EXAMPLE: W501
   W = WINGWALL
   5 = #5 BAR
   01 = BAR SEQUENCE NUMBER 1
3. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS NOTED OTHERWISE.
4. "STR" IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
5. "INC" INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
6. "R" INDICATES THE INSIDE RADIUS UNLESS NOTED OTHERWISE.

HORIZONTAL SCALE IN FEET
0

CALCULATED NJH
CHECKED BTA

REINFORCING STEEL LIST
S.R. 207 STA. 200+00.00

ROS-207-0.00

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BIORETENTION CELL(S)

CONSTRUCT THE BIORETENTION CELL(S) AFTER ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AS SHOWN ON THE CONTRACT PLANS. DO NOT OPERATE HEAVY EQUIPMENT WITHIN THE PERIMETER OF A BIORETENTION CELL. USE ALL SUITABLE EXCAVATED MATERIAL IN THE WORK. ALTERNATIVELY, LEGALLY USE, RECYCLE, OR DISPOSE OF ALL EXCAVATED MATERIALS ACCORDING TO 105.16 AND 105.17.

EXCAVATE THE BIORETENTION CELL TO THE DIMENSIONS, WITH VERTICAL SIDES, TO THE ELEVATIONS SPECIFITIED. MINIMIZE THE COMPACTION OF THE BOTTOM OF THE BIORETENTION CELL. EXCAVATION WILL BE MEASURED AND PAID AS ITEM 203, EXCAVATION AS PER PLAN.

THE BIORETENTION CELL CONSISTS OF FOUR DISCRETE LAYERS: BIORETENTION PLANTING SOIL LAYER, FINE AGGREGATE LAYER, COARSE AGGREAGE NO. 78 LAYER, AND COARSE AGGREGATE NO. 57 LAYER AND AN UNDERDRAIN SYSTEM. THE MATERIALS AND VOLUMES FOR EACH LAYER ARE AS SHOWN:

BIORETENTION CELL	PROJECT QUANTITY (CY)
BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER	
COMPOSITION BY VOLUME	1,440 CY
5 - PARTS SAND - CMS FINE AGGREGATE AS PER 703.20 - 900 CY	
1 - PART TOPSOIL - CMS 659.05 - 180 CY	
2 - PARTS COMPOST - CMS 659.06 - 360 CY	
FINE AGGREGATE AS PER CMS 703.20	131 CY
COARSE AGGREAGE SIZE NO. 78 PER 703.20	131 CY
COARSE AGGREAGE SIZE NO. 57 PER 703.20	524 CY
TOTAL CUBIC YARDS	2,226 CY

CONSTRUCT THE UNDERDRAIN SYSTEM AS SPECIFIED.

PLACE THE BIORETENTION PLANTING SOIL IN 12 INCH LIFTS. THE BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER IS 3 INCHES GREATER THAN THE DEPTH SPECIFIED TO ACCOUNT FOR EXPECTED SETTLING OF THE UNCOMPACTED SOIL.

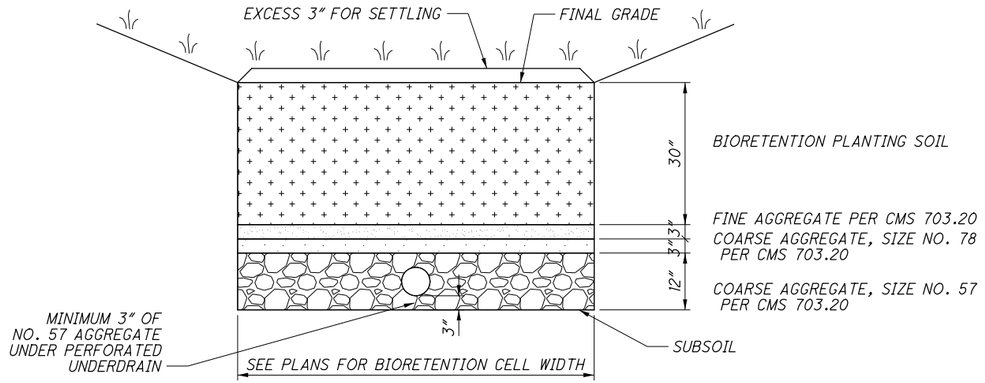
THE BIORETENTION PLANTING SOIL SHALL BE A UNIFORM MIX THAT IS FREE OF STONES, STUMPS, ROOTS, OR ANY OTHER OBJECT LARGER THAN TWO INCHES. THE SOIL MAY CONSIST OF EXISTING SOIL, FURNISHED SOIL, OR A COMBINATION OF BOTH PROVIDED THAT THE PH IS BETWEEN 5.2 - 8.0 AND MEETS THE COMPOSITION REQUIREMENTS LISTED ABOVE. PHOSPHORUS CONCENTRATIONS OF THE PLANTING SOIL SHALL FALL BETWEEN 15 AND 60 MG/KG (PPM) AND DETERMINED BY THE MEHLICH III TEST.

THOROUGHLY MIX THE BIORETENTION PLANTING SOIL PRIOR TO PLACEMENT.

PLACE OBSERVATION WELL AND CLEANOUT WHERE SPECIFIED. CONNECT THE OBSERVATION WELL AND CLEANOUT TO THE PERFORATED UNDERDRAIN WITH THE APPROPRIATE MANUFACTURED CONNECTIONS. EXTEND THE OBSERVATION WELL AND CLEANOUT 4 INCHES ABOVE THE SURFACE ELEVATION. CAP THE OBSERVATION WELL AND CLEANOUT WITH A THREADED SCREW CAP. CAP THE ENDS OF PERFORATED UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL AND CLEANOUT OR CONNECTED TO OTHER CONDUITS. PLACE SEED, TURF, TREES, SHRUBS, OR OTHER PLANT MATERIALS FOR BIORETENTION FACILITIES AS SPECIFIED. PLANT MATERIALS WILL BE MEASURED AND PAID FOR PER CMS ITEM(S) 659, 660, OR 661 DEPENDING ON THE PLANT MATERIALS SPECIFIED. APPLY NO PESTICIDES, HERBICIDES, LIME, AND FERTILIZERS. INSTALL ITEM 611 AS SPECIFIED. INSTALL TEMPORARY EROSION CONTROL MAT TYPE A, B, C, OR E PER CMS 671 WITH EITHER STRAW MULCH OR COMPOST OR AS SPECIFIED IN THE PLANS.

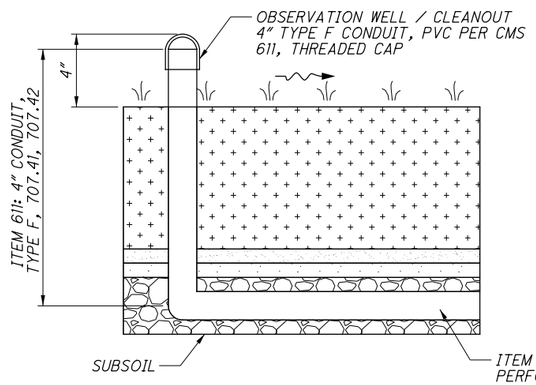
BIORETENTION CELLS WILL BE PAID FOR AS ITEM 601, BIORETENTION CELL CU. YD. AND ITEM 601, TIED CONCRETE MAT SQ. YD. EXCAVATION FOR BIORETENTION CELLS SHALL BE FOR VERTICAL SIDES ONLY AS SPECIFIED AND PAID FOR AS ITEM 203, EXCAVATION AS PER PLAN CU. YD. PERFORATED UNDERDRAINS, OBSERVATION WELLS, AND ASSOCIATED FITTINGS AND COUPLERS WILL BE PAID FOR AS ITEM 605, UNDERDRAIN AS PER PLAN. NON PEFORATED OUTLET PIPES FOR BIORETENTION CELLS SHALL BE PAID FOR AS ITEM 611. SEEDING AND MULCHING FOR THE BIORETENTION CELL SHALL BE PAID FOR AS ITEM 659 SEEDING AND MULCHING SQ. YD. EROSION CONTROL MATS SHALL BE PAID FOR AS ITEM 671, EROSION CONTROL MATS SQ. YD.

SHEET NO.	LOCATION	203 EXCAVATION, AS PER PLAN	601 BIORETENTION CELL	601 TIED CONCRETE BLOCK MAT, TYPE 1	605 UNDERDRAINS, MISC: PERFORATED PVC UNDERDRAIN, 707.41, 707.42	611 4" CONDUIT, TYPE C, 707.42, 707.45	611 4" CONDUIT, TYPE F, 707.41, 707.42	611 PRECAST REINFORCED CONCRETE OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET, APP	659 SEEDING AND MULCHING	671 EROSION CONTROL MAT, TYPE A
		CY	CY	SY	FT	FT	FT	EACH	EACH	SY	SY
248 - 249	BIORETENTION CELL #1	1956	2078	81	743	26	30	1		1467	1965
250	BIORETENTION CELL #2	139	148	27	231	214	11		1	105	316
TOTALS CARRIED TO GENERAL SUMMARY		2095	2226	108	974	240	41	1	1	1571	2281



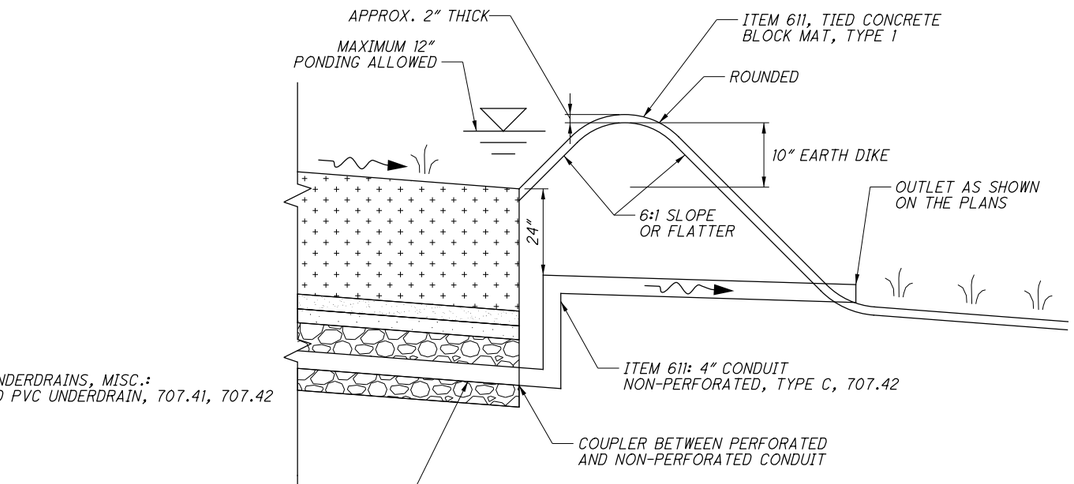
SECTION OF BIORETENTION CELL

NOT TO SCALE



OBSERVATION WELL / CLEANOUT

NOT TO SCALE



BIORETENTION CELL EARTH DIKE DETAIL

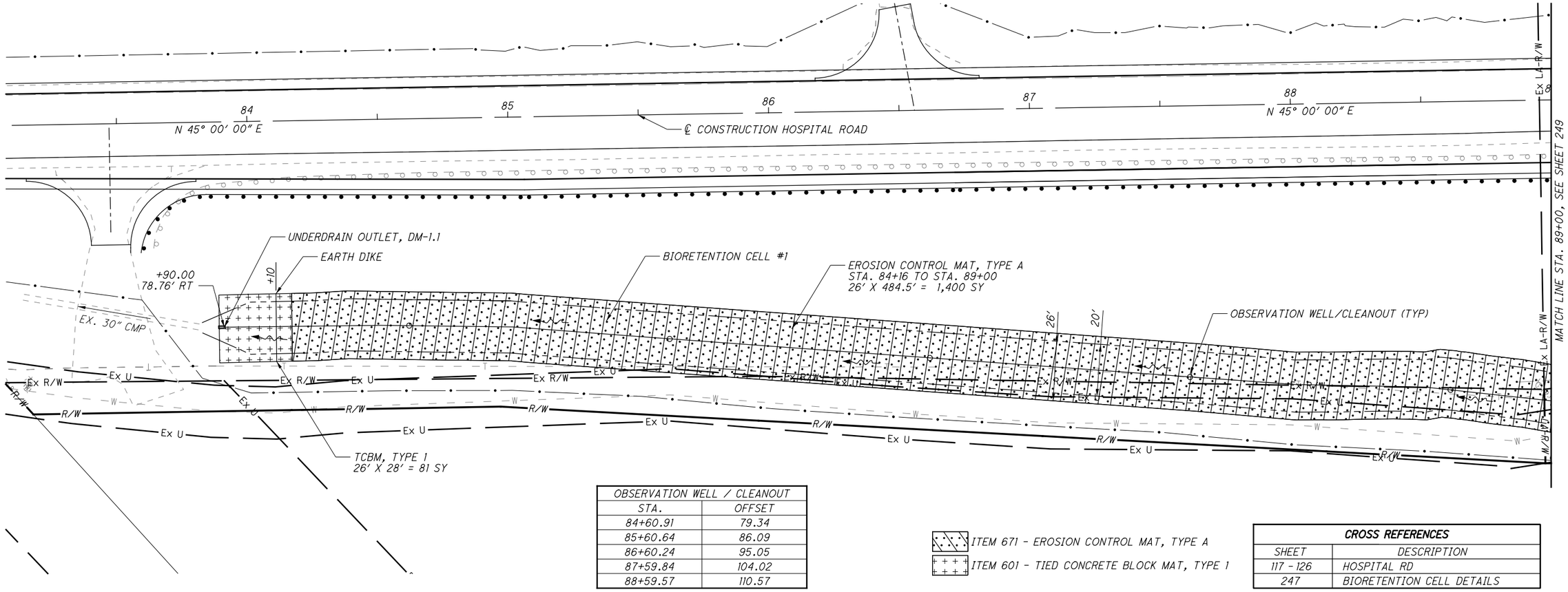
NOT TO SCALE

CALCULATED ARG CHECKED KGJ

BIORETENTION CELL DETAILS

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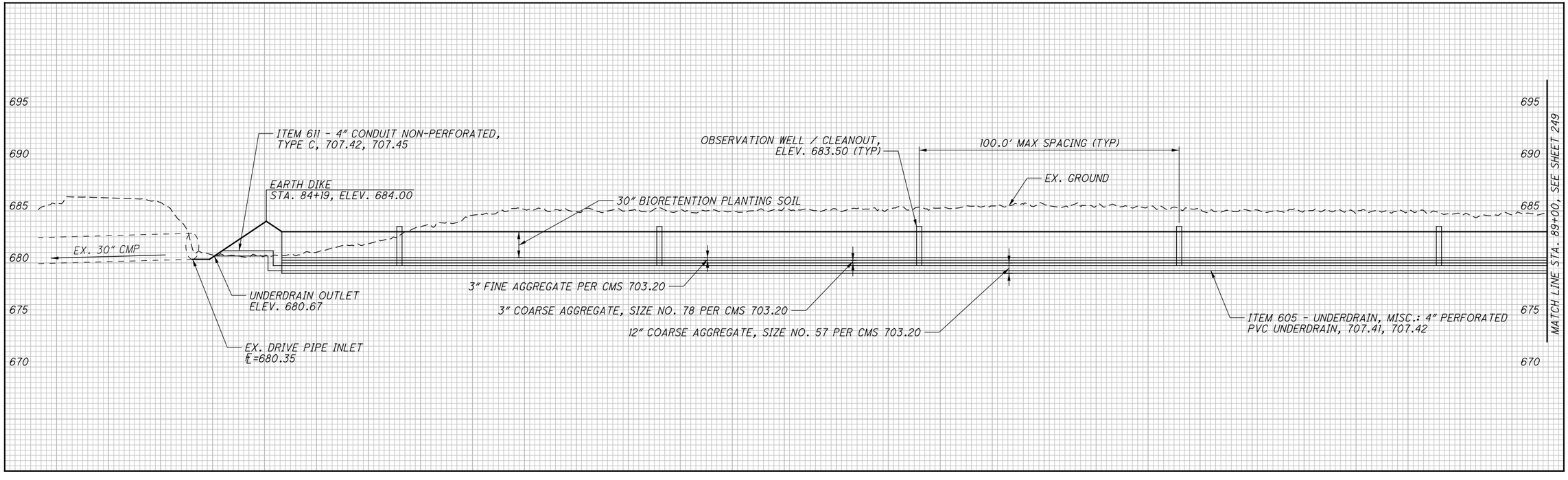


OBSERVATION WELL / CLEANOUT	
STA.	OFFSET
84+60.91	79.34
85+60.64	86.09
86+60.24	95.05
87+59.84	104.02
88+59.57	110.57

ITEM 671 - EROSION CONTROL MAT, TYPE A

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

CROSS REFERENCES	
SHEET	DESCRIPTION
117 - 126	HOSPITAL RD
247	BIORETENTION CELL DETAILS



HORIZONTAL SCALE IN FEET
0 10 20 40

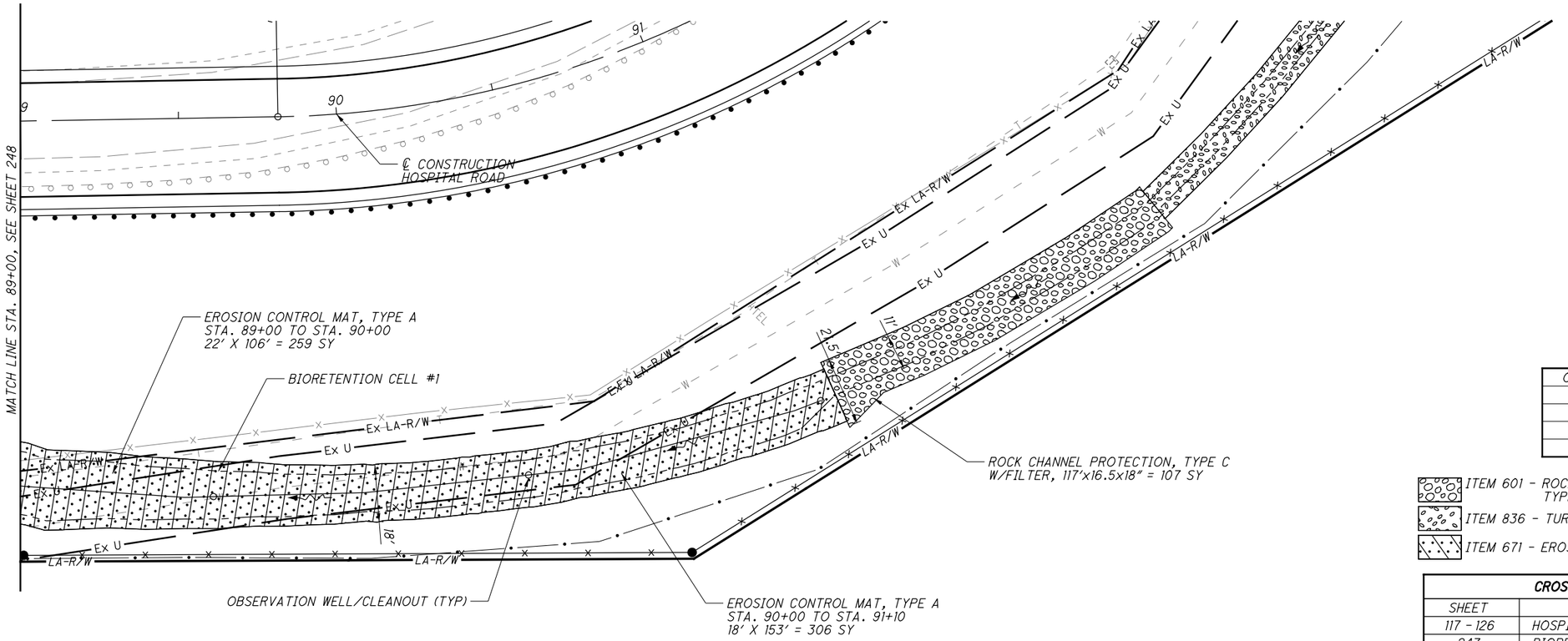
CALCULATED ARG
CHECKED PHF

DRAINAGE PROFILE
BIORETENTION CELL #1 (1 OF 2)

ROS-207-0.00

248
332

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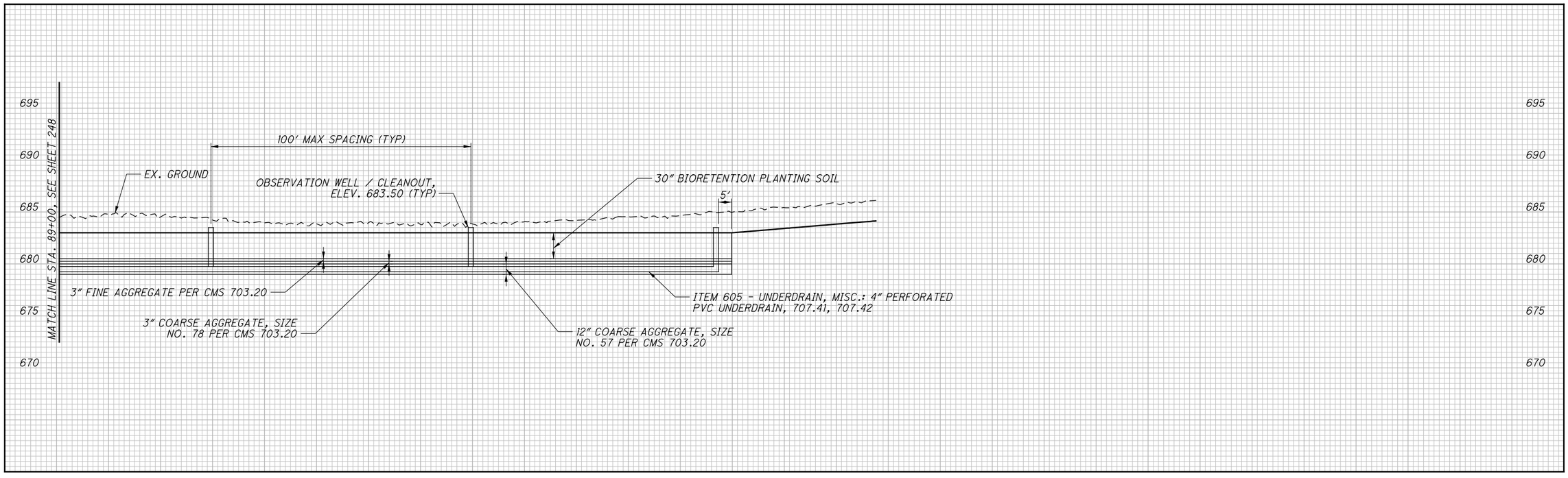
OBSERVATION WELL / CLEANOUT	
STA.	OFFSET
89+59.07	119.79
90+37.77	121.47
91+06.43	126.47

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER

ITEM 836 - TURF REINFORCING MAT, TYPE 1

ITEM 671 - EROSION CONTROL MAT, TYPE A

CROSS REFERENCES	
SHEET	DESCRIPTION
117 - 126	HOSPITAL RD
247	BIORETENTION CELL DETAILS



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ARG
CHECKED PHF

DRAINAGE PROFILE
BIORETENTION CELL #1 (2 OF 2)

ROS-207-0.00

249
332

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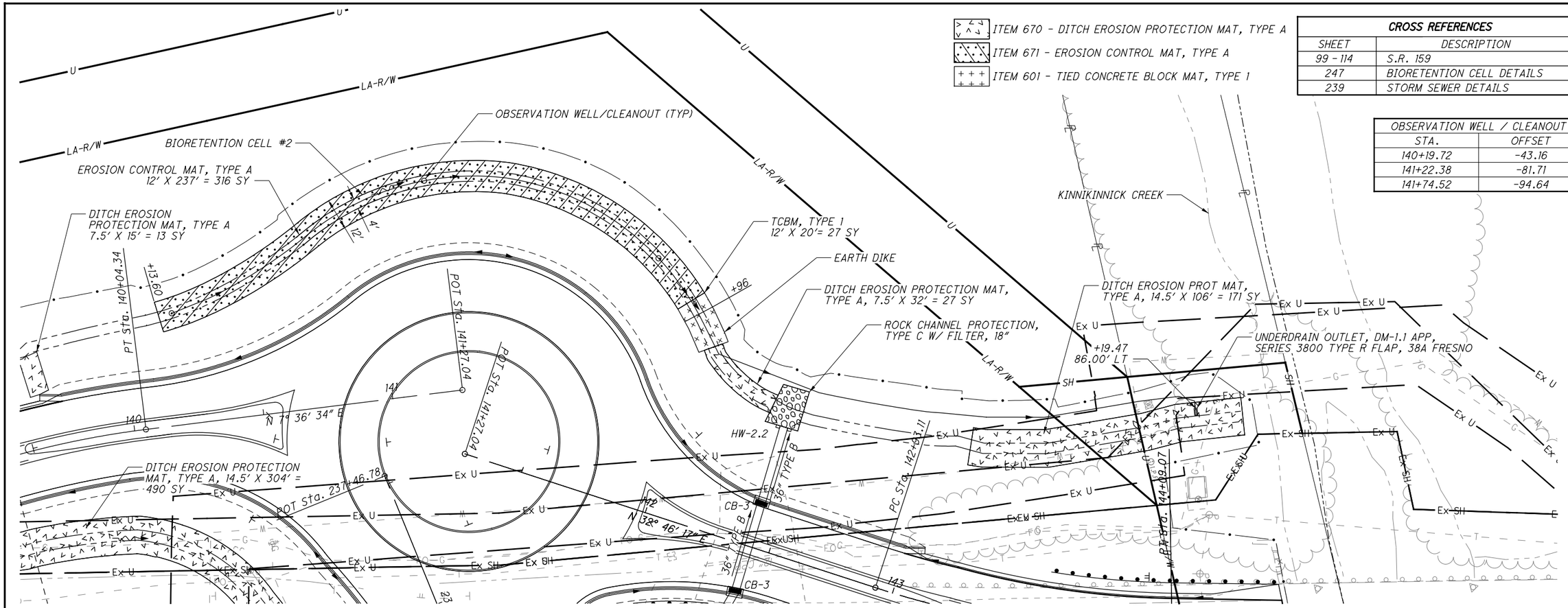
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE A

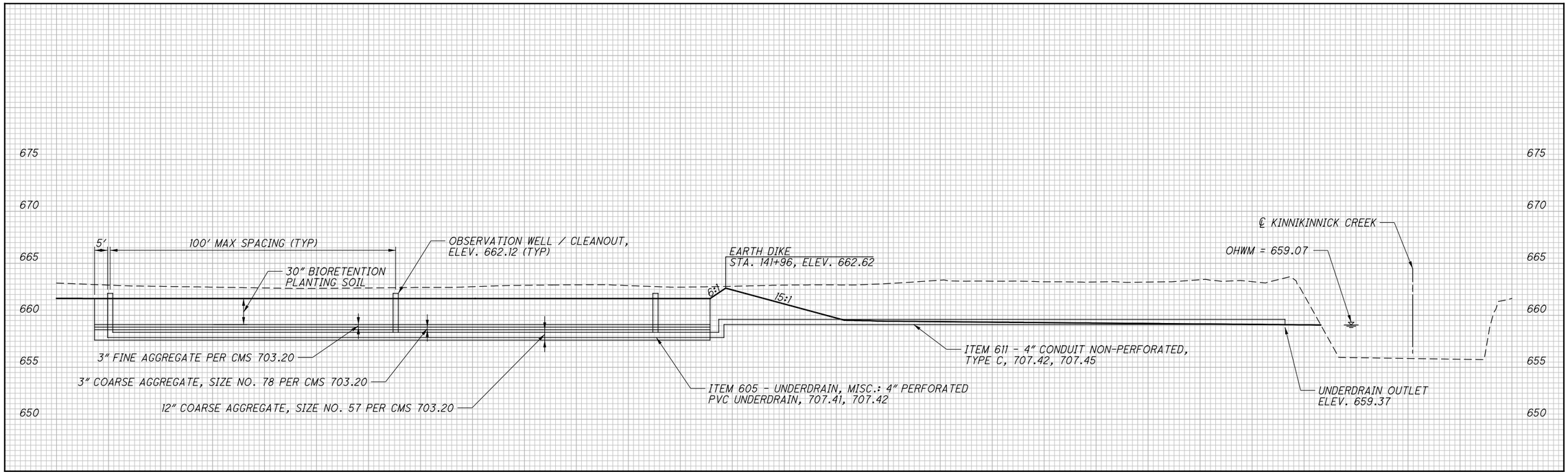
ITEM 671 - EROSION CONTROL MAT, TYPE A

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1

CROSS REFERENCES	
SHEET	DESCRIPTION
99 - 114	S.R. 159
247	BIORETENTION CELL DETAILS
239	STORM SEWER DETAILS

OBSERVATION WELL / CLEANOUT	
STA.	OFFSET
140+19.72	-43.16
141+22.38	-81.71
141+74.52	-94.64





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ARG
CHECKED PHF

DRAINAGE PROFILE
BIORETENTION CELL #2

ROS-207-0.00

250
332

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ITEM 621 - RPM, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 621 & 721, RAISED PAVEMENT MARKER CASTINGS, WHERE DENOTED AS "RPMX" IN THE PLANS, SHALL BE INSTALLED WITHOUT REFLECTORS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT PRICE BID PER EACH AND SHALL INCLUDE ALL LABOR AND INCIDENTAL COSTS REQUIRED FOR A COMPLETE INSTALLATION.

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 630.12, SIGN REMOVAL SHALL INCLUDE THE REMOVAL OF THE ACCOMPANYING SOLAR POWERED LED ENHANCEMENT. THE SIGN AND LED ENHANCEMENT SHALL BE REMOVED INTACT AND INCLUDE ALL COMPONENTS (SOLAR PANEL, BATTERY, LED UNIT, SIGN, WIRING, ETC) FOR A FULLY FUNCTIONING UNIT. STORE THE UNIT ON SITE IN A SAFE LOCATION FOR SALVAGE BY THE ROSS COUNTY ENGINEER AND NOTIFY THE ENGINEER FOR INSPECTION AND PICKUP. IN THE EVENT THAT THE ITEMS STORED ON THE PROJECT ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT. PAYMENT WILL BE MADE AT THE UNIT PRICE BID EACH AND INCLUDE ALL NECESSARY LABOR AND INCIDENTAL COSTS ASSOCIATED WITH REMOVAL AND STORAGE.

ITEM 632 - REUSE OF TRAFFIC CONTROL ITEM: SOLAR POWERED SIGN FLASHER ASSEMBLY

REMOVE AND REINSTALL EXISTING SOLAR POWERED SIGN FLASHER ASSEMBLIES WHERE INDICATED IN THE PLANS. CARE SHALL BE TAKEN TO NOT DAMAGE EXISTING EQUIPMENT DURING REMOVAL. CLEAN AND RESTORE REUSED EQUIPMENT TO A PROPER OPERATING CONDITION. FURNISH ALL ADDITIONAL HARDWARE AND INCIDENTALS NECESSARY TO ALLOW REUSE OF THE EQUIPMENT. PAYMENT WILL BE MADE AT THE UNIT PRICE BID PER EACH AND INCLUDE ALL LABOR AND HARDWARE NECESSARY FOR A COMPLETE INSTALLATION.

CALCULATED NDE
CHECKED ADL

TRAFFIC CONTROL NOTES

ROS-207-0.00

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 SIGN POST REFLECTOR EACH	630 SIGN, FLAT SHEET SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	632 REUSE OF TRAFFIC CONTROL ITEM: SOLAR POWERED SIGN FLASHER ASSEMBLY EACH
259		C.R. 207A	170+26	RT	M3-2-24	24 X 12				2.0		1				
259		C.R. 207A	170+96	RT	W2-1-36	36 X 36	14.7			9.0						
					W16-H8-48	48 X 8				2.7						
259		C.R. 207A	171+46	RT	R3-7R-36	36 X 36		14.0		9.0						
259		C.R. 207A	171+71	RT	-	- - -						1			1	
259		C.R. 207A	172+12	RT	R3-8B-48	48 X 30	27.0			10.0						
259		C.R. 207A	173+48	RT	-	- - -						1			1	
260		C.R. 207A	174+12	RT	D9-2-24	24 X 24	14.3			4.0						
					M6-1-12	12 X 15				1.3						
260		C.R. 207A	174+98	RT	-	- - -							1		1	
260		S.R. 207	175+85	RT	-	- - -						3			3	
260		S.R. 207	175+86	RT	-	- - -						1			1	
260		S.R. 207	175+87	RT	-	- - -						1			2	
260		S.R. 207	175+88	RT	-	- - -						1			1	
261		S.R. 207	180+00	RT	R2-1-24	24 X 30	13.5			5.0						
261		S.R. 207	181+57	LT	R3-H8BH-36	36 X 30	13.5			7.5						
261		S.R. 207	182+57	LT	W3-1-36	36 X 36	14.7			9.0						
					W16-H8-48	48 X 8				2.7						
265		S.R. 207	206+00	RT	W11-5-30	30 X 30	13.5			6.3						
267		S.R. 207	214+00	RT	W2-6-30	30 X 30	14.5			6.3						
					W16-17P-24	24 X 12			1	2.0						
267		S.R. 207	214+00	LT	W2-6-30	30 X 30				6.3						
					W16-17P-24	24 X 12		14.5	1	2.0						
					W11-5-30	30 X 30				6.3						
267		S.R. 207	216+00	RT	M2-1-21	21 X 15	14.3			2.2						
					M1-5-24-3	30 X 24				5.0						
267		S.R. 207	217+00	LT	R2-1-24	24 X 24	13.0			4.0						
268		S.R. 207	218+00	RT	M3-1-24	24 X 12	30.6			2.0						
					M1-5-24-3	30 X 24				5.0						
					M5-3-21	21 X 15				2.2						
					M3-3-24	24 X 12				2.0						
					M1-5-24-3	30 X 24				5.0						
					M5-1-12	21 X 15				2.2						
268		S.R. 207	219+03	LT	R4-7-24	24 X 30	13.5			5.0						
268		S.R. 207	220+00	RT	D1-H1A-72	72 X 12				6.0						
					D1-H1A-72	72 X 12		28.0		6.0						
					D1-H1-72	72 X 12				6.0						
268		S.R. 207	220+50	LT	M4-14-24	24 X 12	15.0			2.0						
					M3-4-24	24 X 12				2.0						
					M1-4-24-3	30 X 24				5.0						
268		S.R. 207	221+00	RT	M4-6-12	24 X 12	14.0			2.0						
					M1-5-24-3	30 X 24				5.0						
268		S.R. 207	221+89	RT	R1-2-36	36 X 36	14.0		1	3.9						
268		S.R. 207	221+97	RT	R1-2-36	36 X 36	14.0		1	3.9						
268		S.R. 207	221+97	LT	M3-4-24	24 X 12	15.3			2.0						
					M1-5-24-3	24 X 30				5.0						
					M6-2-21	21 X 15				2.2						
268		S.R. 207	222+42	RT	R6-4-30	30 X 24	14.0			5.0						
					R6-1R-36	36 X 12				3.0						
269		S.R. 159	111+50	RT	W2-6-30	30 X 30	14.5			6.3						
					W16-17P-24	24 X 12			1	2.0						
269		S.R. 159	111+50	LT	W2-6-30	30 X 30	14.5			6.3						
					W16-17P-24	24 X 12			1	2.0						
SUBTOTALS CARRIED TO SHEET 255							312.4	56.5	6	201.6	0	9	1	0	10	0

CALCULATED NDE
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SIGNING SUBSUMMARY (1 OF 4)

ROS-207-0.00

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 SIGN POST REFLECTOR EACH	630 SIGN, FLAT SHEET SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	632 REUSE OF TRAFFIC CONTROL ITEM: SOLAR POWERED SIGN FLASHER ASSEMBLY EACH
270		S.R. 159	112+50	RT	M2-1-21	21 X 15	14.3			2.2						
					M1-5-24-3	24 X 30				5.0						
270		S.R. 159	114+00	RT	M3-4-24	24 X 12	36.6			2.0						
					M1-5-24-3	24 X 30				5.0						
					M4-5-24	24 X 12				2.0						
					M1-4-24-2	24 X 24				4.0						
					M5-3-21	21 X 15				2.2						
					M3-1-24	24 X 12				2.0						
					M1-5-24-3	24 X 30				5.0						
					M6-3-21	21 X 15				2.2						
270		S.R. 159	115+84	RT	D1-H1A-72	72 X 12	24.0			6.0						
270		S.R. 159	116+03	LT	R4-7-24	24 X 30	13.5			5.0						
268		S.R. 159	117+91	RT	R1-2-36	36 X 36	14.0		1	3.9						
268		S.R. 159	117+99	RT	R1-2-36	36 X 36	14.0		1	3.9						
268		S.R. 159	118+01	LT	M3-3-24	24 X 12	15.3			2.0						
					M1-5-24-3	24 X 30				5.0						
					M6-2-21	21 X 15				2.2						
268		S.R. 159	118+45	RT	R6-1R-36	36 X 12	25.0			3.0						
					R6-4-30	30 X 24				5.0						
268		S.R. 159	118+98	LT	R6-1R-36	36 X 12	25.0			3.0						
					R6-4-30	30 X 24				5.0						
268		S.R. 159	119+41	RT	M3-1-24	24 X 12	15.3			2.0						
					M1-5-24-3	24 X 30				5.0						
					M6-2-21	21 X 15				2.2						
268		S.R. 159	119+42	LT	R1-2-36	36 X 36	14.0		1	3.9						
268		S.R. 159	119+52	LT	R1-2-36	36 X 36	14.0		1	3.9						
271		S.R. 159	121+37	RT	R4-7-24	24 X 30	13.5			5.0						
271		S.R. 159	121+50	LT	D1-H1A-72	72 X 12	24.0			6.0						
271		S.R. 159	123+50	LT	M3-3-24	24 X 12	36.6			2.0						
					M1-5-24-3	24 X 30				5.0						
					M6-3-21	21 X 15				2.2						
					M3-4-24	24 X 12				2.0						
					M4-5-24	24 X 12				2.0						
					M1-4-24-2	24 X 24				4.0						
					M5-1-21	21 X 15				2.2						
272		S.R. 159	125+50	LT	M2-1-21	21 X 15	14.3			2.2						
					M1-5-24-3	24 X 30				5.0						
272		S.R. 159	126+50	RT	W2-6-30	30 X 30	14.5		1	6.3						
					W16-17P-24	24 X 12				2.0						
272		S.R. 159	126+50	LT	W2-6-30	30 X 30	14.5		1	6.3						
					W16-17P-24	24 X 12				2.0						
273		S.R. 159	130+90	RT	W2-6-30	30 X 30	14.5		1	6.3						
					W16-17P-24	24 X 12				2.0						
273		S.R. 159	130+90	LT	W2-6-30	30 X 30	14.5		1	6.3						
					W16-17P-24	24 X 12				2.0						
273		S.R. 159	130+98	RT	-	- - -						1			1	
273		S.R. 159	130+98	LT	-	- - -						1			1	
273		S.R. 159	131+43	RT	-	- - -						2			1	
273		S.R. 159	132+15	RT	M2-1-21	21 X 15	14.8			2.2						
					M1-5-24-3	24 X 30				5.0						
SUBTOTALS CARRIED TO SHEET 255							386.2	0.0	8	170.6	0	4	0	0	3	0

CALCULATED NDE CHECKED ADL

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630									632				
							GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED SUPPORT, NO. 4 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	SIGN, DOUBLE FACED, STREET NAME	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REUSE OF TRAFFIC CONTROL ITEM: SOLAR POWERED SIGN FLASHER ASSEMBLY				
							FT	FT	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH				
274		S.R. 159	135+50	RT	M3-1-24	24 X 12	30.6			2.0										
					M1-5-24-3	24 X 30				5.0										
					M6-3-21	21 X 15				2.2										
					M3-2-24	24 X 12				2.0										
					M1-5-24-3	24 X 30				5.0										
					M5-1-21	21 X 15				2.2										
274		S.R. 159	137+75	RT	D1-H1A-72	72 X 12	48.0			6.0										
					D1-H1A-72	72 X 12				6.0										
274		S.R. 159	138+24	RT	-	- - -						1			2					
275		S.R. 159	139+60	LT	R4-7-24	24 X 30	13.5			5.0										
275		S.R. 159	140+24	RT	-	- - -						1			1					
275		S.R. 159	140+40	RT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 159	140+52	RT	M3-3-24	24 X 12	15.8			2.0										
					M1-5-24-3	24 X 30				5.0										
					M6-2-21	21 X 15				2.2										
275		S.R. 159	140+53	RT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 159	140+95	RT	R6-1R-36	36 X 12	25.0			3.0										
					R6-4-30	30 X 24				5.0										
275		S.R. 159	141+46	RT	-	- - -						2			1					
275		S.R. 159	141+57	LT	R6-1R-36	36 X 12	25.0			3.0										
					R6-4-30	30 X 24				5.0										
275		S.R. 159	142+02	LT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 159	142+03	RT	M3-1-24	24 X 12	15.8			2.0										
					M1-5-24-3	24 X 30				5.0										
					M6-2-21	21 X 15				2.2										
275		S.R. 159	142+09	RT	-	- - -						2			1					
275		S.R. 159	142+11	LT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 159	143+20	RT	R4-7-24	24 X 30	13.5			5.0										
275		S.R. 159	143+26	RT	-	- - -						2			1					
276		S.R. 159	144+00	LT	D1-H1A-72	72 X 12	24.0			6.0										
276		S.R. 159	146+30	LT	-	- - -						1			2					
276		S.R. 159	146+40	LT	M3-2-24	24 X 12	30.6			2.0										
					M1-5-24-3	24 X 30				5.0										
					M5-3-21	21 X 15				2.2										
					M3-3-24	24 X 12				2.0										
					M1-5-24-3	24 X 30				5.0										
					M6-3-21	21 X 15				2.2										
276		S.R. 159	147+82	LT	-	- - -						2			1					
276		S.R. 159	148+40	LT	M2-1-21	21 X 15	14.3			2.2										
					M1-5-24-3	24 X 30				5.0										
277		S.R. 159	150+64	RT	W2-6-30	30 X 30		17.0	1	6.3		1			1	1				
					W16-17P-24	24 X 12				2.0										
277		S.R. 159	150+64	LT	W2-6-30	30 X 30		17.0	1	6.3		1			1	1				
					W16-17P-24	24 X 12				2.0										
275		S.R. 180	237+76	LT	R6-1R-36	36 X 12	25.0			3.0										
					R6-4-30	30 X 24				5.0										
275		S.R. 180	237+95	RT	-	- - -						1			2					
275		S.R. 180	237+99	LT	-	- - -						3			2					
275		S.R. 180	238+17	LT	M3-2-24	24 X 12	15.3			2.0										
					M1-5-24-3	24 X 30				5.0										
					M6-2-21	21 X 15				2.2										
275		S.R. 180	238+19	LT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 180	238+35	LT	R1-2-36	36 X 36	14.0		1	3.9										
275		S.R. 180	238+70	RT	-	- - -						1			1					
275		S.R. 180	238+75	LT	-	- - -						1			1					
275		S.R. 180	239+35	RT	R4-7-24	24 X 30	13.5			5.0										
SUBTOTALS CARRIED TO SHEET 255							393.9	34.0	8	168.6	0	19	0	0	17	2				

CALCULATED NDE CHECKED ADL

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 SIGN POST REFLECTOR EACH	630 SIGN, FLAT SHEET SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND STORAGE, AS PER PLAN EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	632 REUSE OF TRAFFIC CONTROL ITEM: SOLAR POWERED SIGN FLASHER ASSEMBLY EACH				
275		S.R. 180	239+35	RT	M4-14-24	24 X 12	15.0			2.0										
					M3-2-24	24 X 12				2.0										
					M1-4-24-3	24 X 30				5.0										
275		S.R. 180	239+50	LT	M4-6-12	24 X 12	14.0			2.0										
					M1-5-24-3	24 X 30				5.0										
278		S.R. 180	240+03	LT	-	- - -						1		1	1					
278		S.R. 180	240+03	RT	R2-1-24	24 X 30	13.5			5.0										
278		S.R. 180	241+20	LT	D1-H1A-72	72 X 12	26.0			6.0										
					D1-H1A-72	72 X 12				6.0										
278		S.R. 180	243+35	LT	-	- - -						2			1					
278		S.R. 180	243+40	LT	M3-3-24	24 X 12	30.6			2.0										
					M1-5-24-3	24 X 30				5.0										
					M5-3-21	21 X 15				2.2										
					M3-1-24	24 X 12				2.0										
					M1-5-24-3	24 X 30				5.0										
					M5-1-21	21 X 15				2.2										
279		S.R. 180	245+69	LT	M2-1-21	21 X 15	14.3			1.1										
					M1-5-24-3	24 X 30				2.5										
279		S.R. 180	246+41	RT	-	- - -						1			1					
279		S.R. 180	246+41	LT	-	- - -						1			1					
279		S.R. 180	246+44	RT	W2-6-30	30 X 30	15.5			3.2										
					W16-17P-24	24 X 12				1.0										
279		S.R. 180	246+44	LT	W2-6-30	30 X 30	15.5			3.2										
					W16-17P-24	24 X 12				1.0										
281		HOSPITAL ROAD	85+06	RT	W3-1-36	36 X 36	14.0		1	4.5										
281		HOSPITAL ROAD	86+56	RT	R3-H8BH-36	36 X 30	13.5			3.8										
260		HOSPITAL ROAD	92+66	LT	-	- - -						3			1					
260		HOSPITAL ROAD	92+75	RT	M4-5-12	12 X 24	15.3			1.0										
					M1-4-24-2	24 X 24				2.0										
					M5-1-12	12 X 15				0.7										
260		HOSPITAL ROAD	93+71	RT	D3-1-48	48 X 12	15.0		1	2.0	1									
					R1-1-36	36 X 36				4.5										
260		HOSPITAL ROAD	93+76	RT	-	- - -						2			1					
260		HOSPITAL ROAD	95+00	RT	W14-2-30	30 X 30	13.5			3.2										
260		HOSPITAL ROAD	95+03	LT	D3-1-48	48 X 12	15.0		1	2.0	1									
					R1-1-36	36 X 36				4.5										
260		HOSPITAL ROAD	95+06	LT	-	- - -						1			1					
283		HOSPITAL ROAD	96+12	RT	-	- - -						1			1					
283		HOSPITAL ROAD	96+15	LT	-	- - -						3			1					
283		HOSPITAL ROAD	96+25	LT	M4-5-24	24 X 12	15.3			1.0										
					M1-4-30-2	30 X 24				2.5										
					M5-1-21	21 X 15				1.1										
283		HOSPITAL ROAD	96+83	LT	R3-H8BH-36	36 X 30	13.5			3.8										
283		HOSPITAL ROAD	97+33	RT	R3-H8BA-30	30 X 30	13.5			3.2										
283		HOSPITAL ROAD	98+00	RT	D4-2-30	30 X 36	14.0			3.8										
283		HOSPITAL ROAD	98+55	LT	W3-1-36	36 X 36	14.0		1	4.5										
285		U.S. 23 NB EXIT RAMP	-	-	M6-4-30	30 X 21				2.2		1								
					SUBTOTAL THIS SHEET		301.0	0.0	4	113.7	2	16	0	1	9	0				
					SUBTOTAL FROM SHEET 252		312.4	56.5	6	201.6	0	9	1	0	10	0				
					SUBTOTAL FROM SHEET 253		386.2	0.0	8	170.6	0	4	0	0	3	0				
					SUBTOTAL FROM SHEET 254		393.9	34.0	8	168.6	0	19	0	0	17	2				
					TOTALS CARRIED TO GENERAL SUMMARY		1393.5	90.5	26	654.5	2	48	1	1	39	2				

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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RPM	621 RPM, AS PER PLAN	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96"	644 DOTTED LINE, 4"	644 DOTTED LINE, 8"	644 YIELD LINE	644 REMOVAL OF PAVEMENT MARKING			
						EACH	EACH	MILE	MILE	MILE	FT	FT	FT	EACH	EACH	FT	FT	FT	FT			
259	R-1	C.R. 207A/S.R. 207	170+02	171+00	RT														98			
	DL-1		170+02	171+00	RT											98						
	TL-1		171+00	172+63	℄								94									
	LA-1		171+44		RT									1								
	LA-2		173+20		RT									1								
	LA-3		173+20		℄									1								
	CL-1		171+00	172+63	RT	4				0.04												
	CL-2		171+00	175+26	LT	6				0.09												
	W-1		172+32		RT										1							
	EW-1		171+00	174+80	RT		10	0.09														
	EW-2		171+00	175+06	LT			0.10														
	CH-1		171+00	175+35	RT	11					435											
	CH-2		172+78	175+26	RT	7					248											
	LL-1		171+00	175+26	LT				0.09													
260	LA-3	C.R. 207A/S.R. 207	174+08		℄									1								
	LA-4		174+96		℄									1								
	LA-5		174+96		RT									1								
	LA-6		176+52		℄									1								
	LA-7		177+40		℄									1								
	LA-8		178+28		℄									1								
	LA-9		179+16		℄									1								
	W-2		174+08		RT										1							
	TLW-1		174+83	175+35	RT								37									
	CH-3		174+83	175+35	RT						76											
	CL-3		176+22	219+00	RT	54				0.82												
	CH-4		176+22	180+92	LT	12					470											
	EW-3		176+52	222+20	RT	15		0.89														
	EW-4		176+68	222+24	LT		16	0.90														
261	LA-10	S.R. 207	180+04		℄									1								
	LA-11		180+84		℄									1								
	TL-2		181+07	186+17	℄								160									
	CL-4		181+07	186+17	LT	7				0.10												
267	CL-4	S.R. 207	216+90	219+00	LT	2				0.04												
268	EY-1	S.R. 207	219+00	221+99	RT	4		0.06														
	EY-2		219+00	221+96	LT	4		0.06														
	W-3		221+82		RT										1							
	YL-1		222+03		RT													20				
	EW-5		221+96	222+05	RT/LT			0.01														
	LA-25		222+11		℄									1								
	DW-1		222+03	222+20	RT												43					
	EY-16		ROUNDABOUT		-			0.06														
269	CL-5	S.R. 159	110+35	116+00	℄	8				0.11												
	EW-6		110+35	118+18	RT	15		0.15														
	EW-7		110+35	118+40	LT			0.16														
270	CL-6	S.R. 159	113+60	116+00	LT	3				0.05												
	EY-3		116+00	118+01	RT	2		0.04														
	EY-4		116+00	118+01	LT	2		0.04														
268	W-4	S.R. 159	117+84		RT										1							
	YL-2		118+04		RT													20				
	EW-8		118+01	118+10	℄			0.01														
	LA-26		118+16		℄									1								
	DW-2		118+04	118+18	RT												42					
SUBTOTALS CARRIED TO SHEET 258						156	26	2.57	0.09	1.25	1229	0	291	14	4	98	85	40	98			

CALCULATED NDE
CHECKED ADL

PAVEMENT MARKING SUBSUMMARY (1 OF 3)

ROS-207-0.00

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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RPM	621 RPM, AS PER PLAN	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96"	644 DOTTED LINE, 4"	644 DOTTED LINE, 8"	644 YIELD LINE	644 REMOVAL OF PAVEMENT MARKING			
						EACH	EACH	MILE	MILE	MILE	FT	FT	FT	EACH	EACH	FT	FT	FT	FT			
	LA-27		118+79		RT									1								
	LA-28		119+29		LT									1								
	EW-9		119+32	119+42	℄			0.01														
	DW-3		119+24	119+38	LT												42					
268	YL-3	S.R. 159	119+38		LT													20				
	W-5		119+58		LT										1							
	EY-8		119+42	121+40	RT	2		0.04														
	EY-9		119+41	121+40	LT	2		0.04														
	EW-10		118+18	140+67	RT	16		0.43														
	EW-11		119+24	141+83	LT	11		0.43														
	CL-7		121+40	139+57	℄	23				0.35												
271	CL-8	S.R. 159	121+40	123+80	LT	3				0.05												
274	CL-9	S.R. 159	136+45	139+57	LT					0.06												
	EY-10		139+57	140+54	RT	2		0.02														
	EY-11		139+57	140+54	LT	2		0.02														
	W-6		140+35		RT										1							
	YL-4		140+57		RT													20				
275	DW-4	S.R. 159	140+57	140+67	RT												41					
	EW-12		140+54	140+63	℄			0.01														
	LA-29		140+67		RT									1								
	LA-30		141+40		LT									1								
	EY-17		ROUNDABOUT		-			0.06														
	LA-31		141+85		LT									1								
	EW-13		141+95	142+03	℄			0.01														
	DW-5		141+83	141+97	LT												40					
	YL-5		141+97		LT													20				
	W-7		142+18		LT										1							
275	EY-12	S.R. 159	142+01	143+22	RT	2		0.03														
	EY-13		142+00	143+22	LT	2		0.03														
	EW-14		141+93	144+53	RT			0.05														
	EW-15		141+83	144+53	LT	4		0.06														
	CL-10		143+22	144+53	RT	3				0.03												
	CL-11		143+22	144+28	LT	2				0.03												
	LA-32		238+07		LT									1								
	EW-16		238+04	238+19	℄			0.01														
	DW-6		238+16	238+19	LT												30					
	YL-6		238+16		LT													20				
	W-8		238+37		LT										1							
275	EY-14	S.R. 180	238+14	238+40	RT	2		0.01														
	EY-15		238+19	238+40	LT	2		0.01														
	CL-12		238+40	245+05	RT	8				0.13												
	CL-13		238+40	241+50	LT	3				0.06												
	EW-17		237+65	245+05	RT			0.15														
	EW-18		238+19	245+05	LT	13		0.13														
	EW-19		78+46	93+56	RT	15		0.29														
	EW-20		78+46	93+70	LT			0.29														
280	CL-14	HOSPITAL ROAD	78+46	93+85	℄	20		0.30		0.30												
	CL-15		78+46	86+56	RT	11				0.16												
	TL-3		78+46	86+56	RT								213									
	LA-12		86+79		RT									1								
281	CH-5	HOSPITAL ROAD	86+71	93+85	RT	18					714											
	SUBTOTALS CARRIED TO SHEET 258					166	0	2.43	0.00	1.17	714	0	213	7	4	0	153	80	0			

CALCULATED NDE
CHECKED ADL

PAVEMENT MARKING SUBSUMMARY (2 OF 3)

ROS-207-0.00

257
332

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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RPM	621 RPM, AS PER PLAN	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96"	644 DOTTED LINE, 4"	644 DOTTED LINE, 8"	644 YIELD LINE	644 REMOVAL OF PAVEMENT MARKING			
						EACH	EACH	MILE	MILE	MILE	FT	FT	FT	EACH	EACH	FT	FT	FT	FT			
282	LA-13	HOSPITAL ROAD	87+44		RT									1								
	LA-14		88+32		RT									1								
	LA-15		89+20		RT									1								
	LA-16		90+08		RT									1								
	LA-17		90+95		RT									1								
	LA-18		91+81		RT									1								
260	LA-19	HOSPITAL ROAD	92+67		RT									1								
	LA-20		93+55		RT									1								
	SL-1		93+85		RT							32										
260	SL-2	HOSPITAL ROAD	94+81		RT/LT							36										
	LA-21		95+11		RT/LT									1								
	CH-6		94+81	97+23	℄	6					242											
	CL-16		94+81	97+83	RT	4				0.06												
	EW-21		95+66	104+48	RT			0.17														
	EW-22		95+13	97+58	LT	7		0.05														
	LA-22		95+86		RT									1								
283	LA-23	HOSPITAL ROAD	96+60		RT									1								
	CH-7		97+48	97+83	RT	2					35											
	LA-24		97+73		RT									1								
	CL-17		98+19	104+48	℄	6				0.12												
	CL-18		98+19	104+48	RT	6				0.12												
	TL-4		98+19	104+48	RT								181									
	EW-23		98+39	104+48	LT	8		0.12														
	SL-3		97+83	97+98	LT							15										
SUBTOTAL THIS SHEET						39	0	0.34	0.00	0.30	277	83	181	12	0	0	0	0	0			
SUBTOTALS FROM SHEET 256						156	26	2.57	0.09	1.25	1229	0	291	14	4	98	85	40	98			
SUBTOTALS FROM SHEET 257						166	0	2.43	0.00	1.17	714	0	213	7	4	0	153	80	0			
TOTALS CARRIED TO GENERAL SUMMARY						361	26	5.34	0.09	2.72	2220	83	685	33	8	98	238	120	98			

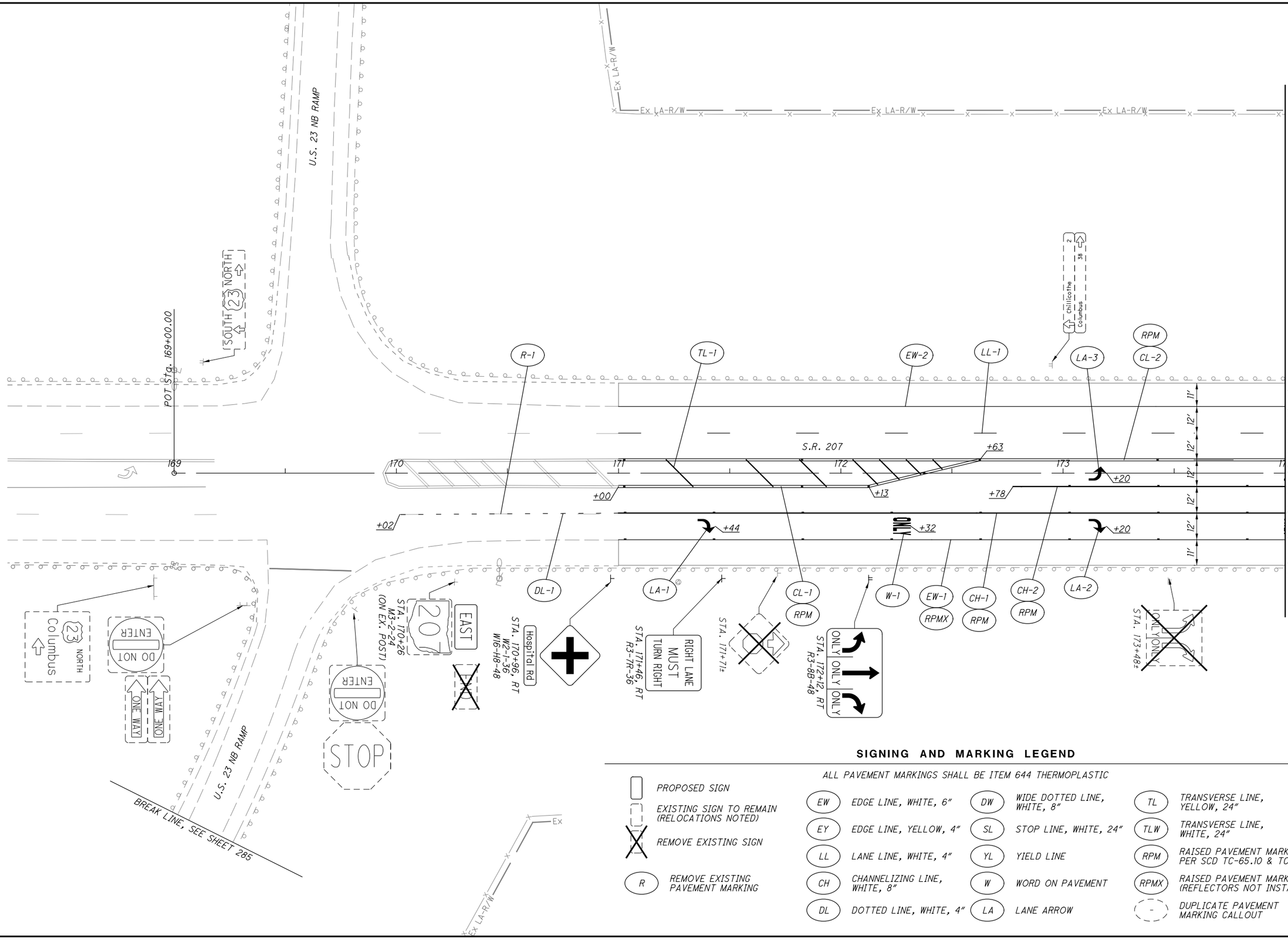
CALCULATED NDE
CHECKED ADL

PAVEMENT MARKING SUBSUMMARY (3 OF 3)

ROS-207-0.00

258
332

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SIGNING AND MARKING LEGEND

ALL PAVEMENT MARKINGS SHALL BE ITEM 644 THERMOPLASTIC

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN (RELOCATIONS NOTED)
- REMOVE EXISTING SIGN
- (R) REMOVE EXISTING PAVEMENT MARKING

EW	EDGE LINE, WHITE, 6"	DW	WIDE DOTTED LINE, WHITE, 8"	TL	TRANSVERSE LINE, YELLOW, 24"
EY	EDGE LINE, YELLOW, 4"	SL	STOP LINE, WHITE, 24"	TLW	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, WHITE, 4"	YL	YIELD LINE	RPM	RAISED PAVEMENT MARKER PER SCD TC-65.10 & TC-65.11
CH	CHANNELIZING LINE, WHITE, 8"	W	WORD ON PAVEMENT	RPMX	RAISED PAVEMENT MARKER, APP (REFLECTORS NOT INSTALLED)
DL	DOTTED LINE, WHITE, 4"	LA	LANE ARROW	-	DUPLICATE PAVEMENT MARKING CALLOUT

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED NDE
CHECKED ADL

TRAFFIC CONTROL PLAN - S.R. 207
BEGIN WORK TO STA. 174+00

ROS-207-0.00

259
332

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TRAFFIC CONTROL PLAN - S.R. 207
STA. 174+00 TO STA. 179+50

ROS-207-0.00

CALCULATED NDE
CHECKED ADL

HORIZONTAL SCALE IN FEET
0 10 20 40

MATCH LINE STA. 96+00, SEE SHEET 283

MATCH LINE STA. 174+00, SEE SHEET 259

MATCH LINE STA. 179+50, SEE SHEET 261

MATCH LINE STA. 92+50, SEE SHEET 282

S.R. 207

HOSPITAL ROAD

Hospital Rd

Great Seneca Park

NO OUTLET

STA. 95+00, RT
W14-2-30

STA. 95+03, LT
D3-1-48 (DOUBLE FACE)
R1-1-36

STA. 95+06±

STA. 175+88±

STA. 175+81±

STA. 175+86±

STA. 175+85±

STA. 174+12, RT
D9-2-24
M6-1-12

STA. 174+98±
(SALVAGE SOLAR
LED ENHANCEMENT)

STA. 93+76±

STA. 93+71, RT
D3-1-48 (DOUBLE FACE)
R1-1-36

STA. 92+66±

STA. 92+75, RT
M4-5-12
M1-4-24-2
M5-1-12

JCT 23

TO 23

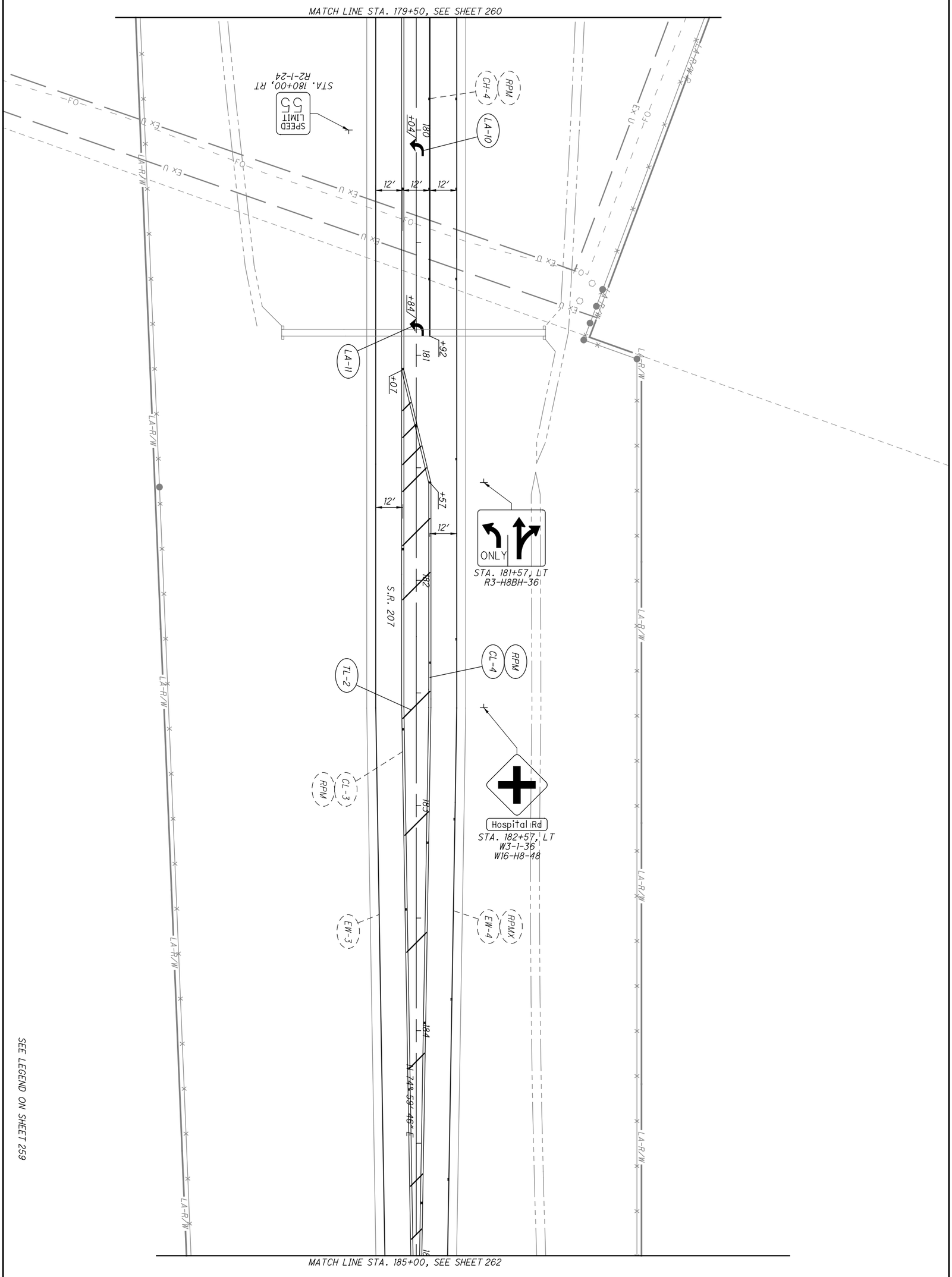
LA-R/W

Ex U

-FO-

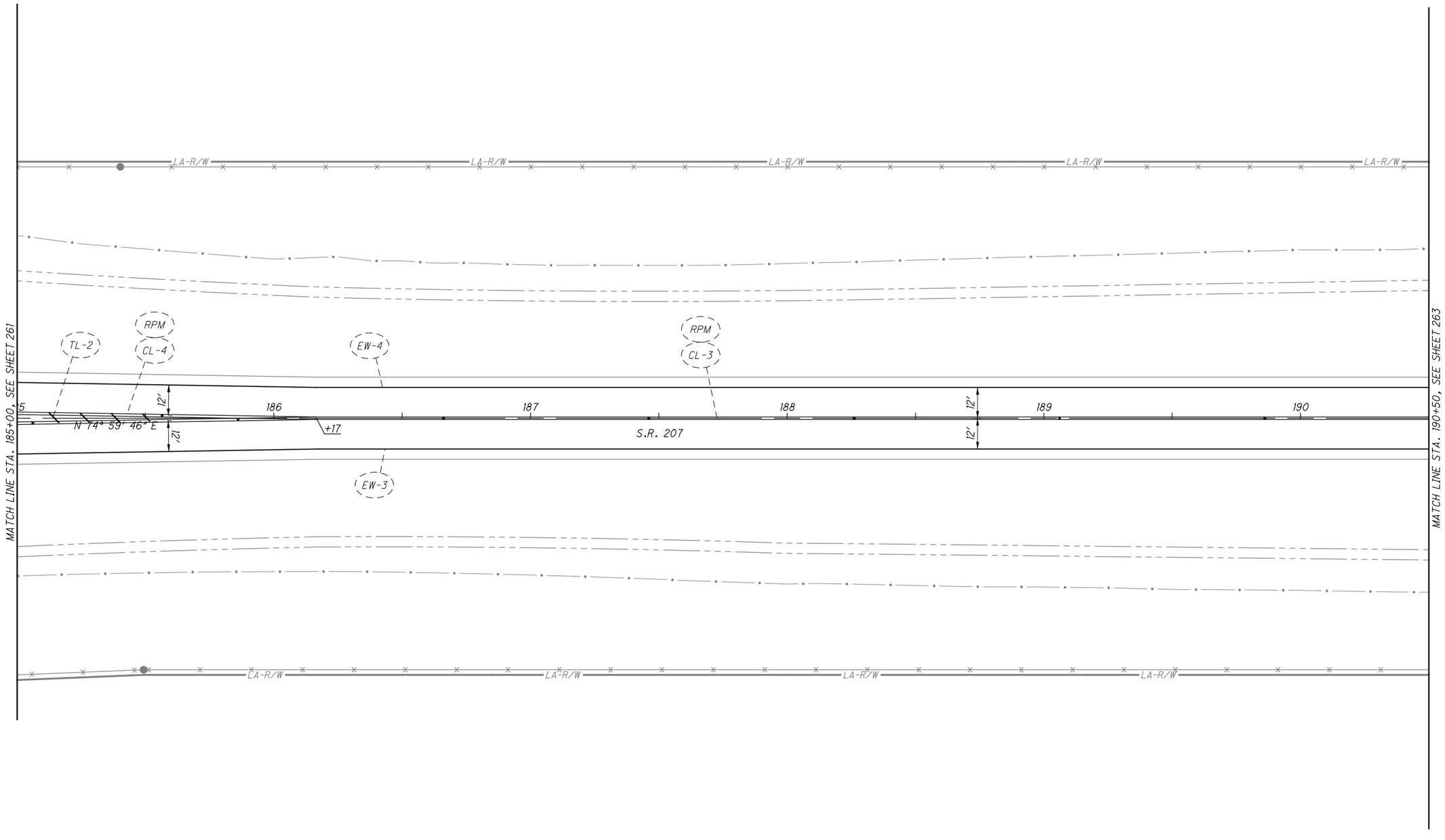
SEE LEGEND ON SHEET 259

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SEE LEGEND ON SHEET 259

261 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 207 STA. 179+50 TO STA. 185+00	CALCULATED NDE CHECKED ADL	0 10 20 40 HORIZONTAL SCALE IN FEET



SEE LEGEND ON SHEET 259

HORIZONTAL SCALE IN FEET
0 10 20 40

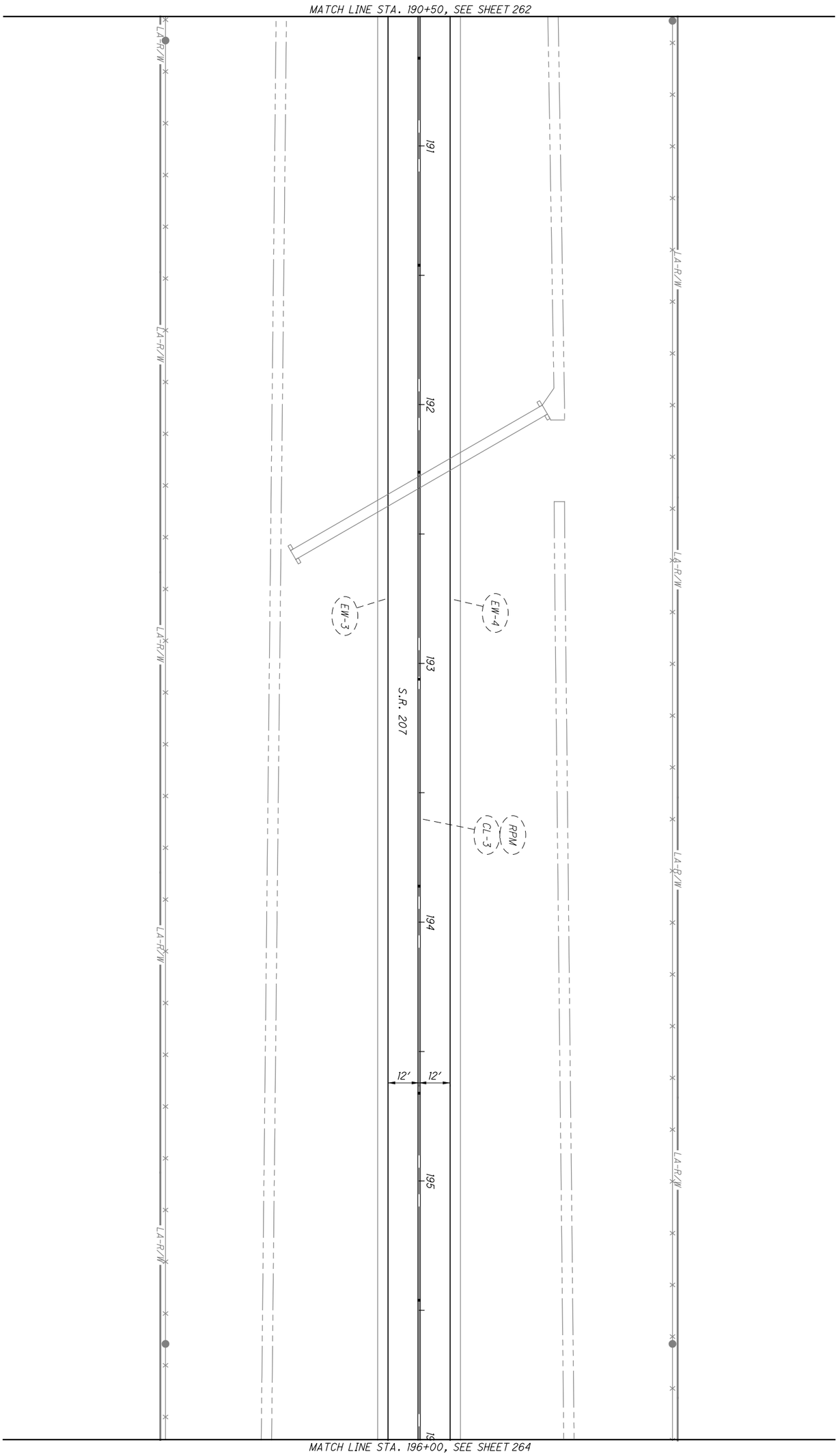
CALCULATED NDE
CHECKED ADL

TRAFFIC CONTROL PLAN - S.R. 207
STA. 185+00 TO STA. 190+50

ROS-207-0.00

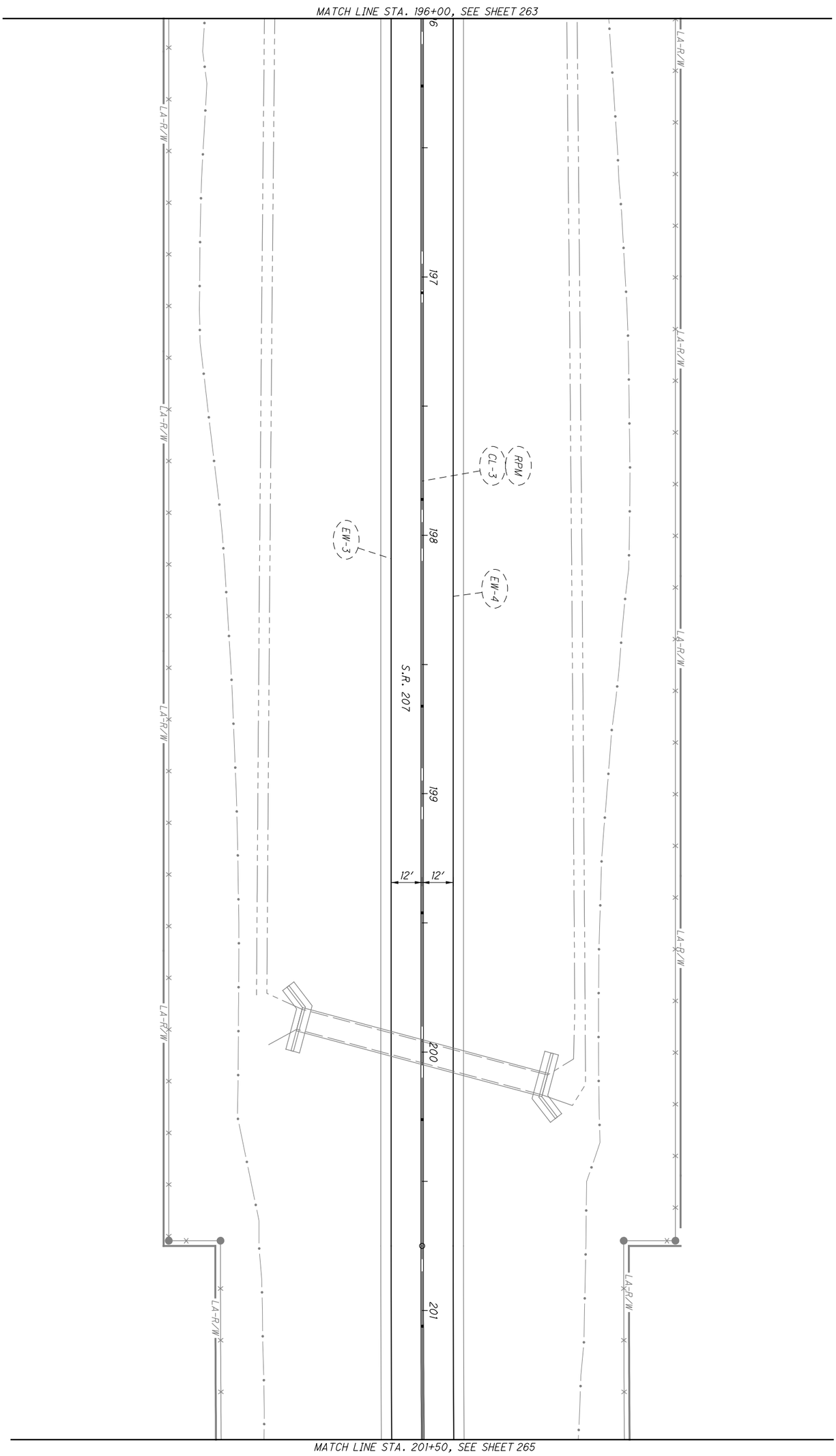
262
332

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SEE LEGEND ON SHEET 259

263 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 207 STA. 190+50 TO STA. 196+00	CALCULATED NDE CHECKED ADL	0 10 20 40 HORIZONTAL SCALE IN FEET



SEE LEGEND ON SHEET 259

264
332

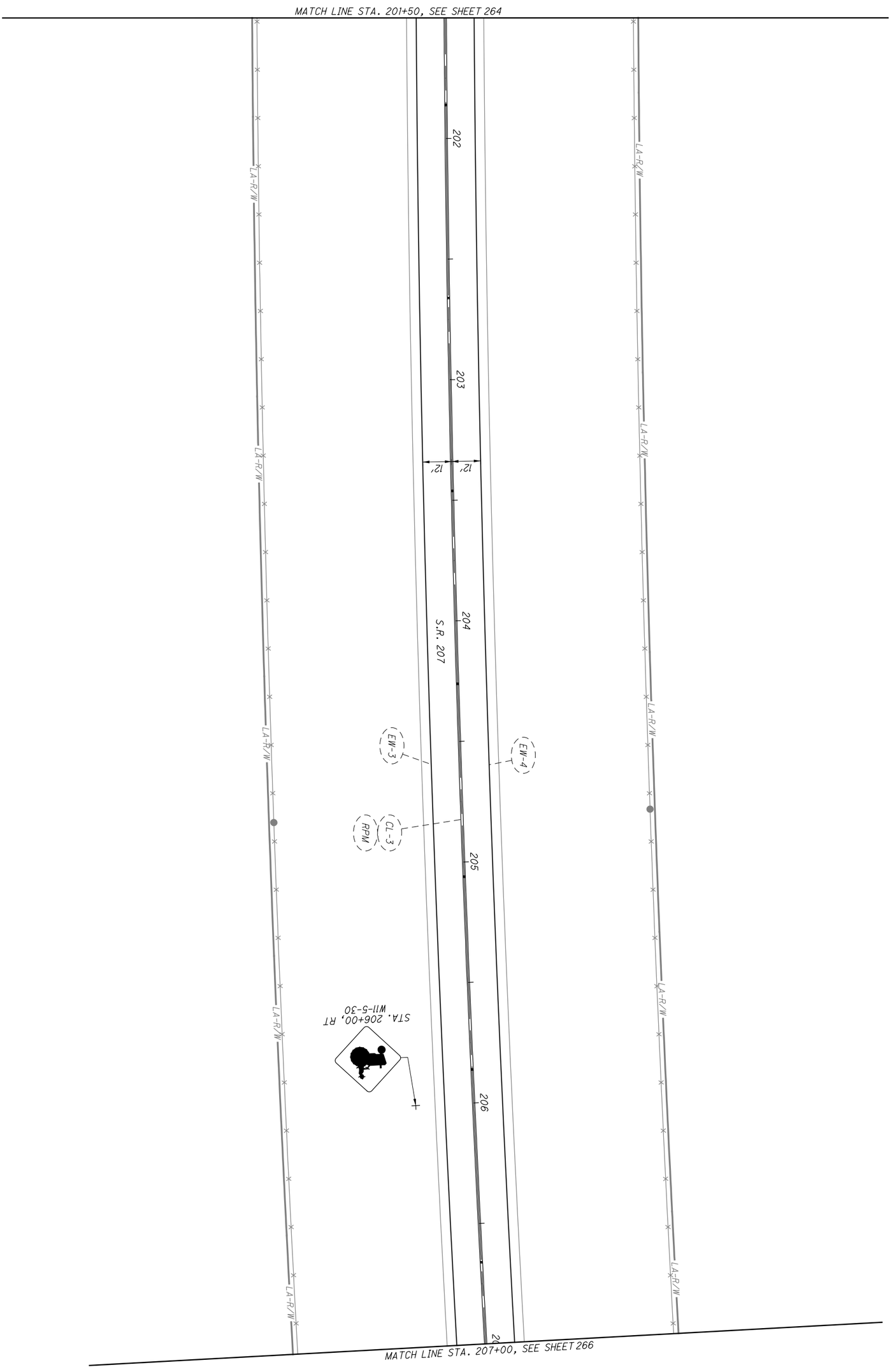
ROS-207-0.00

TRAFFIC CONTROL PLAN - S.R. 207
STA. 196+00 TO STA. 201+50

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

N



SEE LEGEND ON SHEET 269

ROS-207-0.00

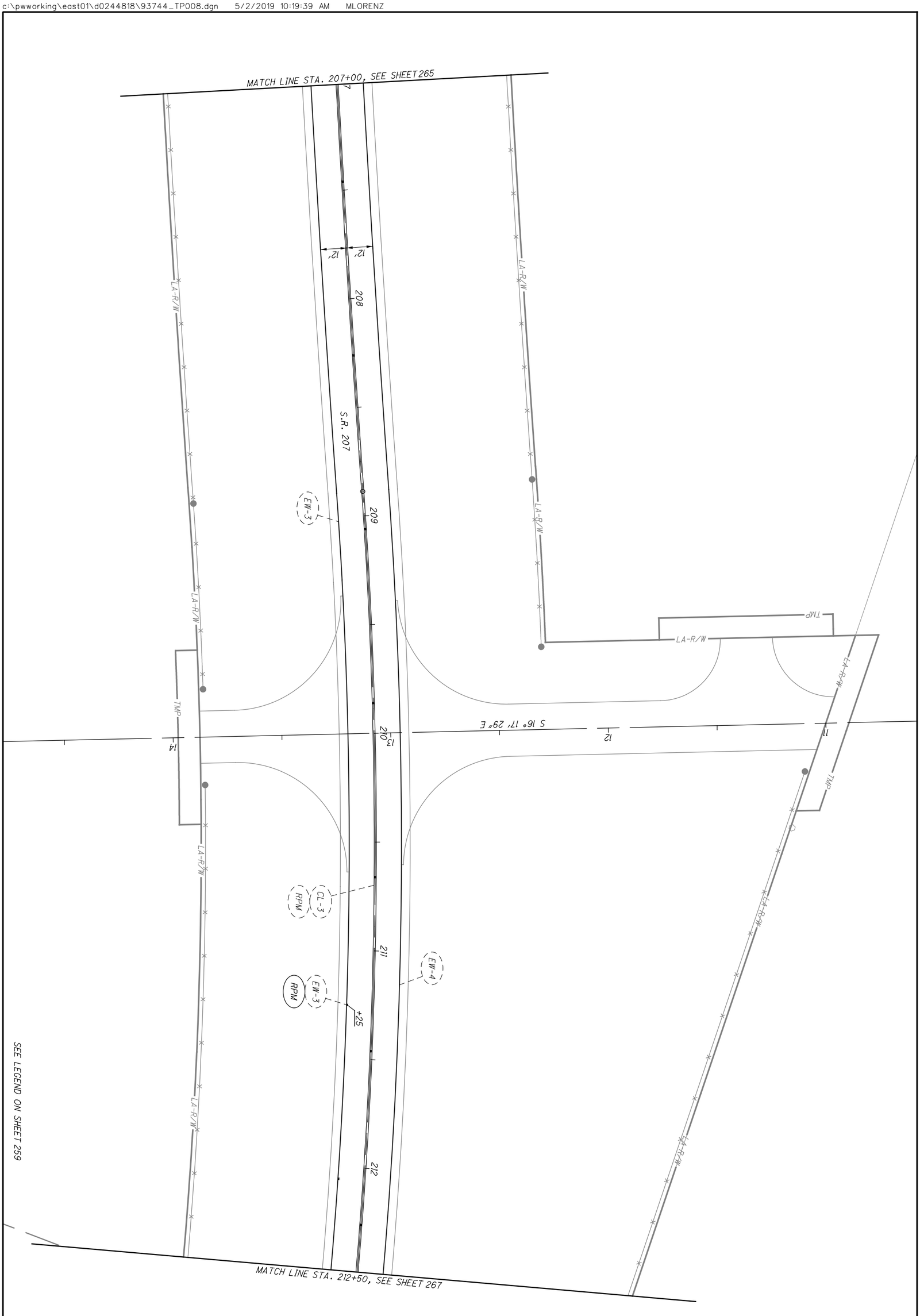
TRAFFIC CONTROL PLAN - S.R. 207
STA. 201+50 TO STA. 207+00

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

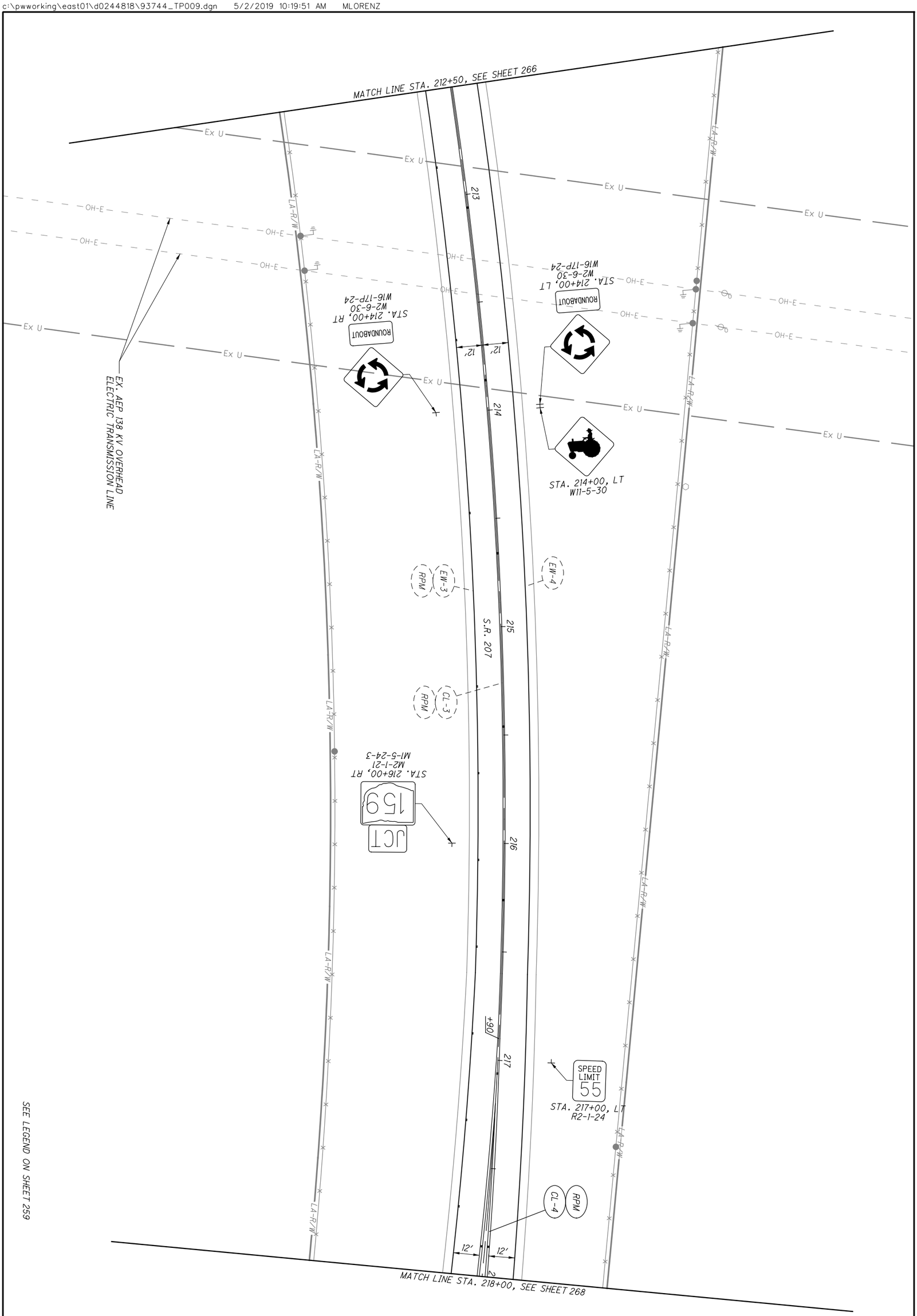
N

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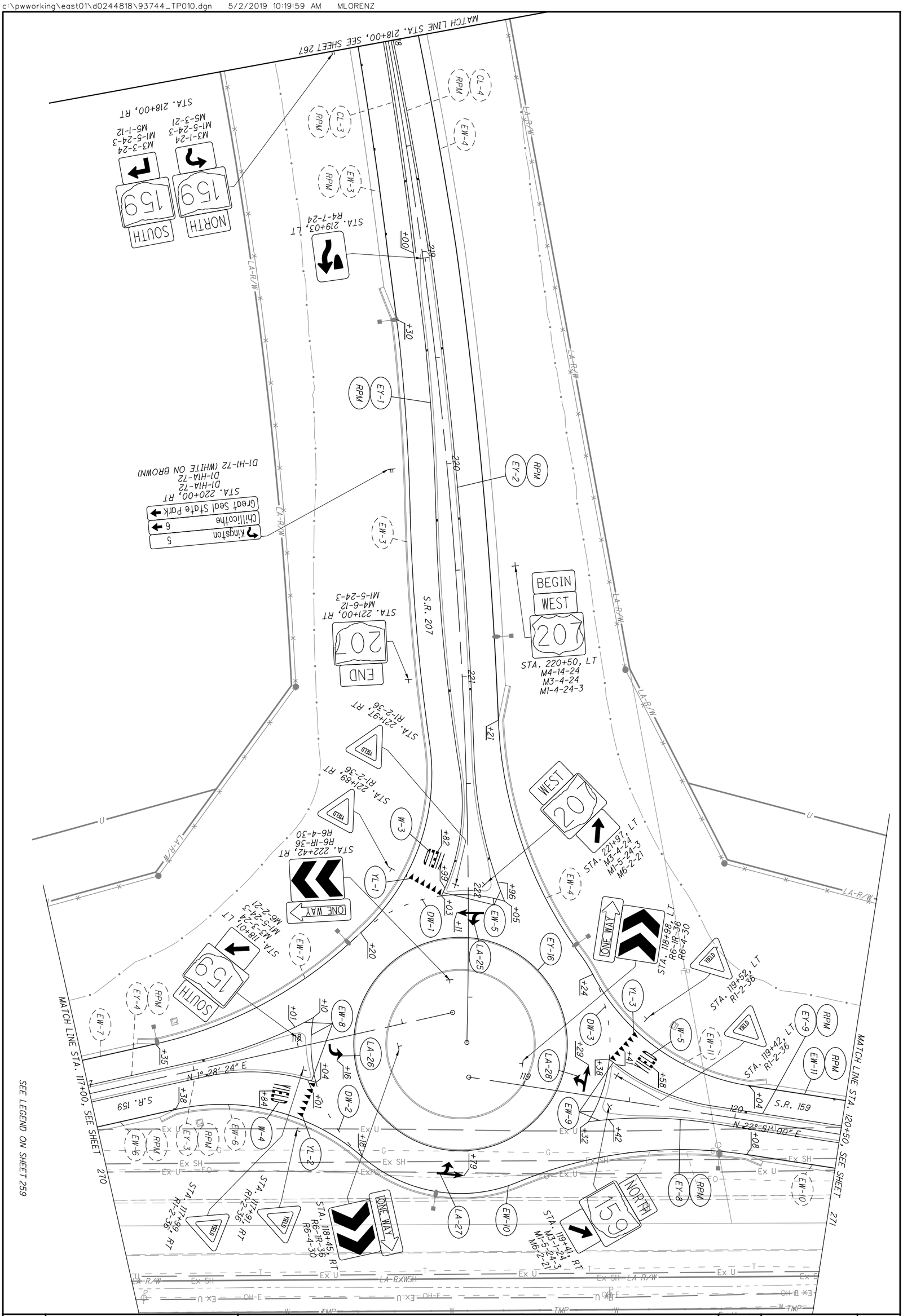
266 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 207 STA. 207+00 TO STA. 212+50	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET

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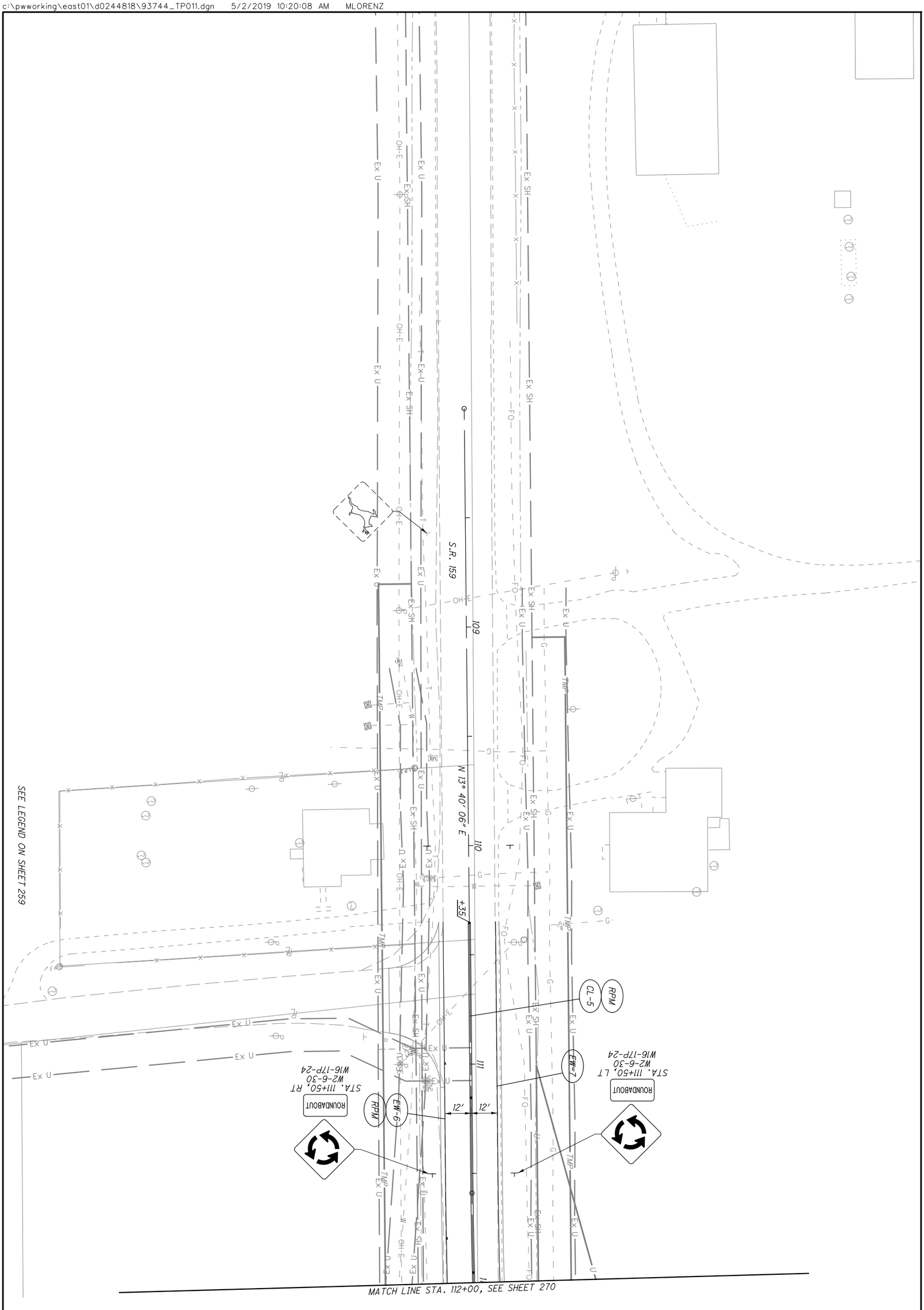
267 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 207 STA. 212+50 TO STA. 218+00	CALCULATED NDE CHECKED ADL	0 10 20 40 HORIZONTAL SCALE IN FEET

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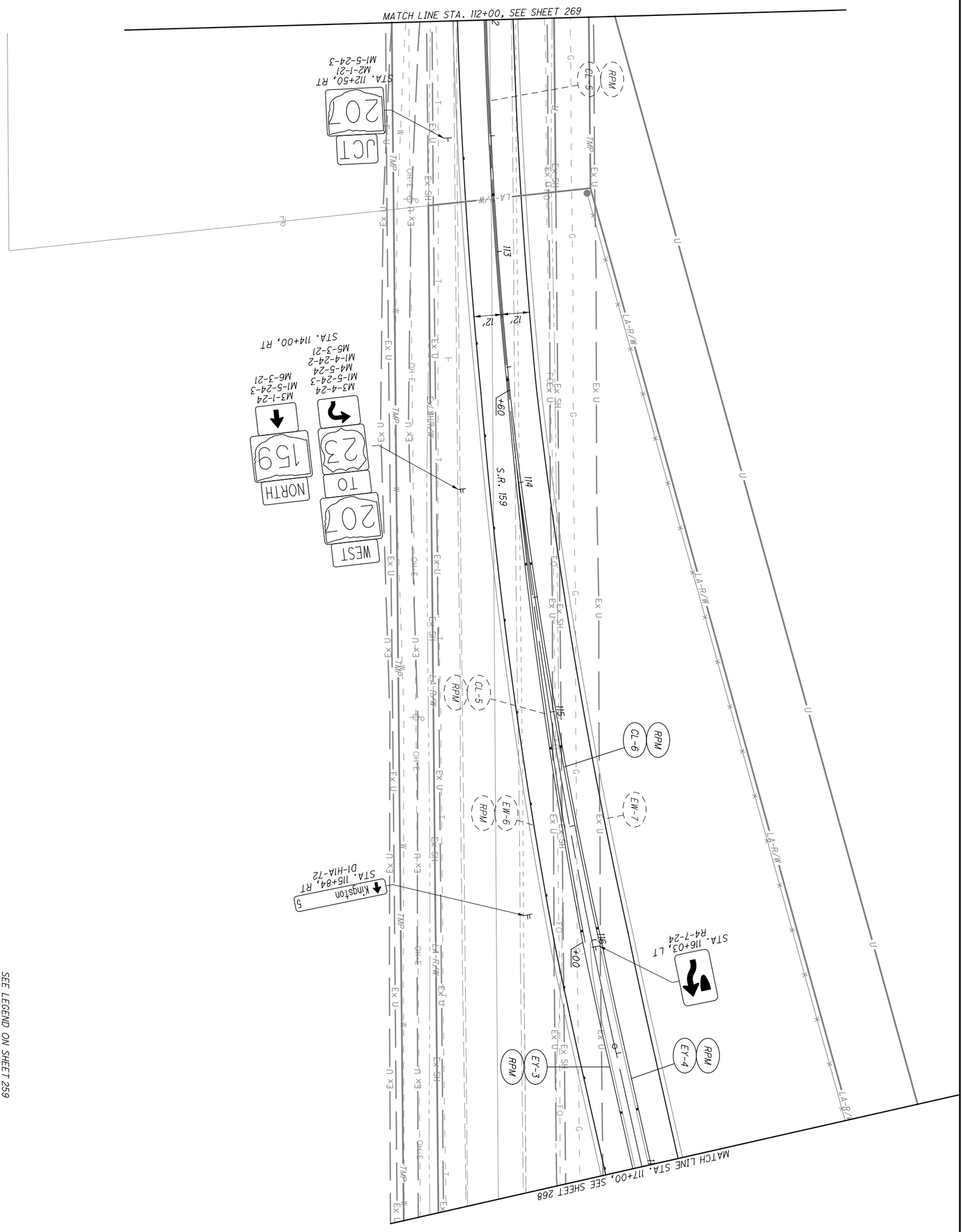
268 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 207/S.R. 159 STA. 218+00 TO STA. 222+71.28	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET

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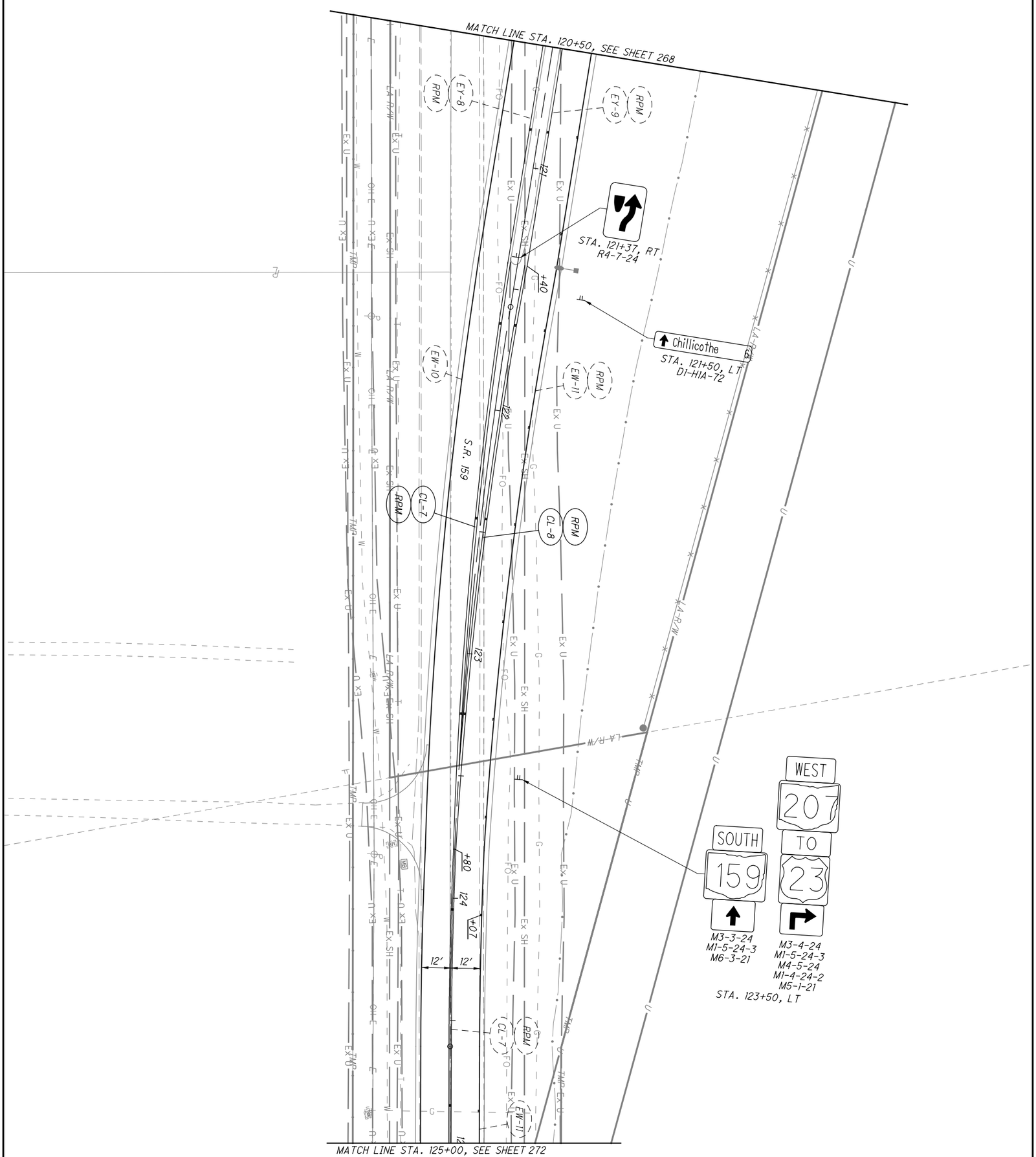


269 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159 BEGIN TO STA. 111+50	CALCULATED NDE CHECKED ADL	0 10 20 40 HORIZONTAL SCALE IN FEET

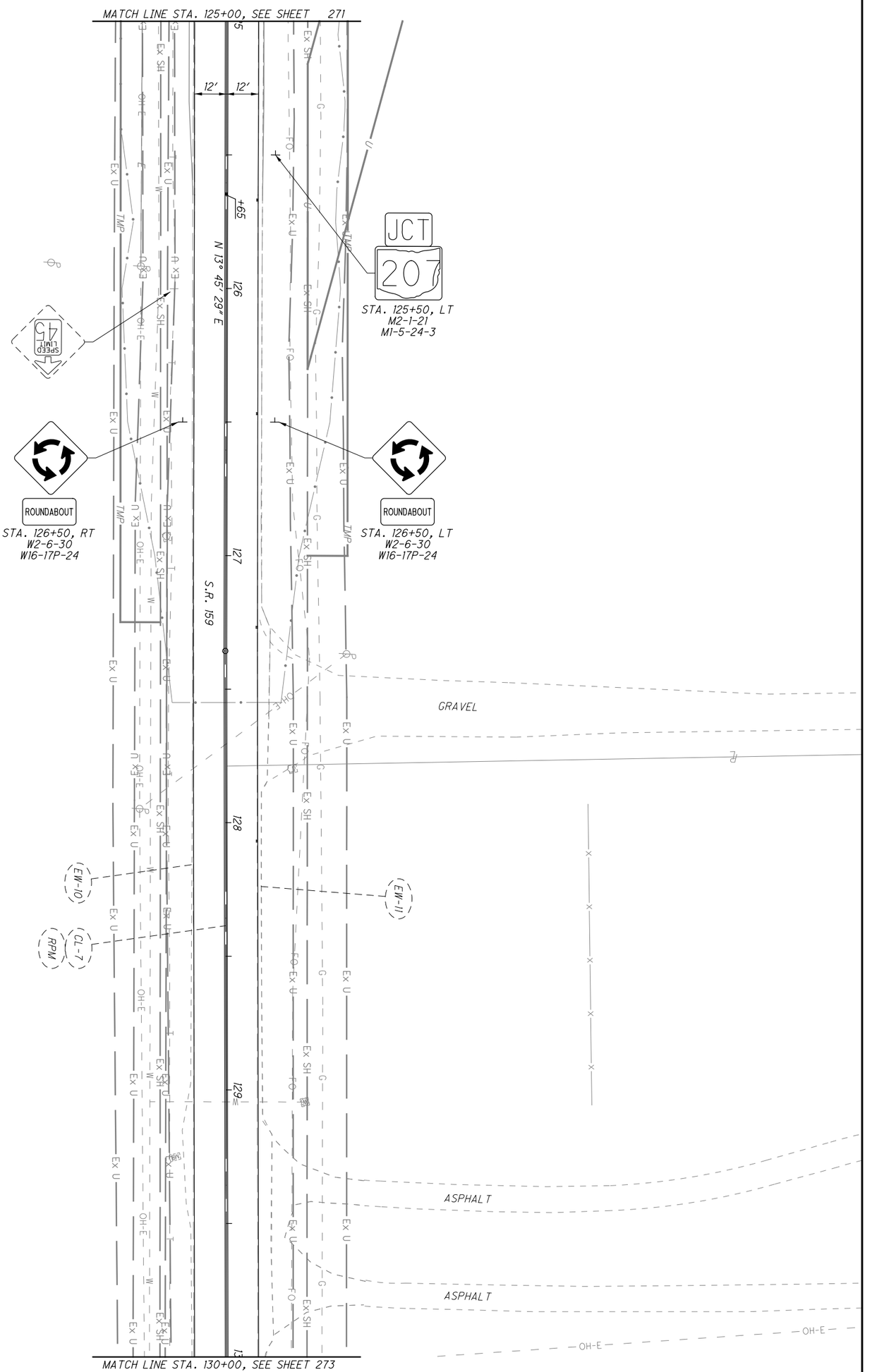
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270 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159 STA. 112+00 TO STA. 117+00	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET



271 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159 STA. 120+50 TO STA. 125+00	CALCULATED NDE CHECKED ADL 0 20 10 40 HORIZONTAL SCALE IN FEET



SEE LEGEND ON SHEET 259

272
332

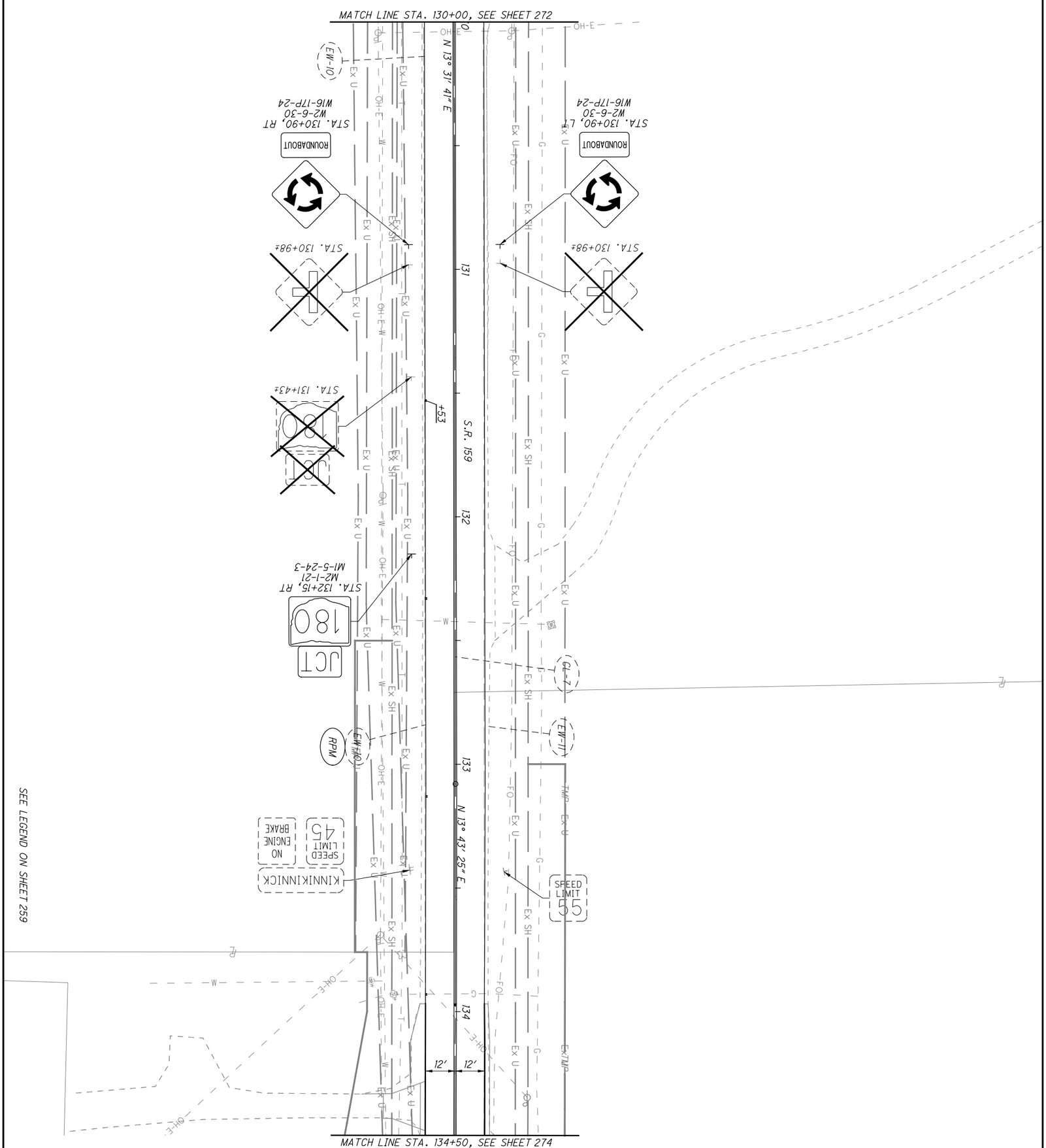
ROS-207-0.00

TRAFFIC CONTROL PLAN - S.R. 159
STA. 125+00 TO STA. 130+00

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

N



273 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159 130+00 TO STA. 134+50	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET

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ROS-207-0.00

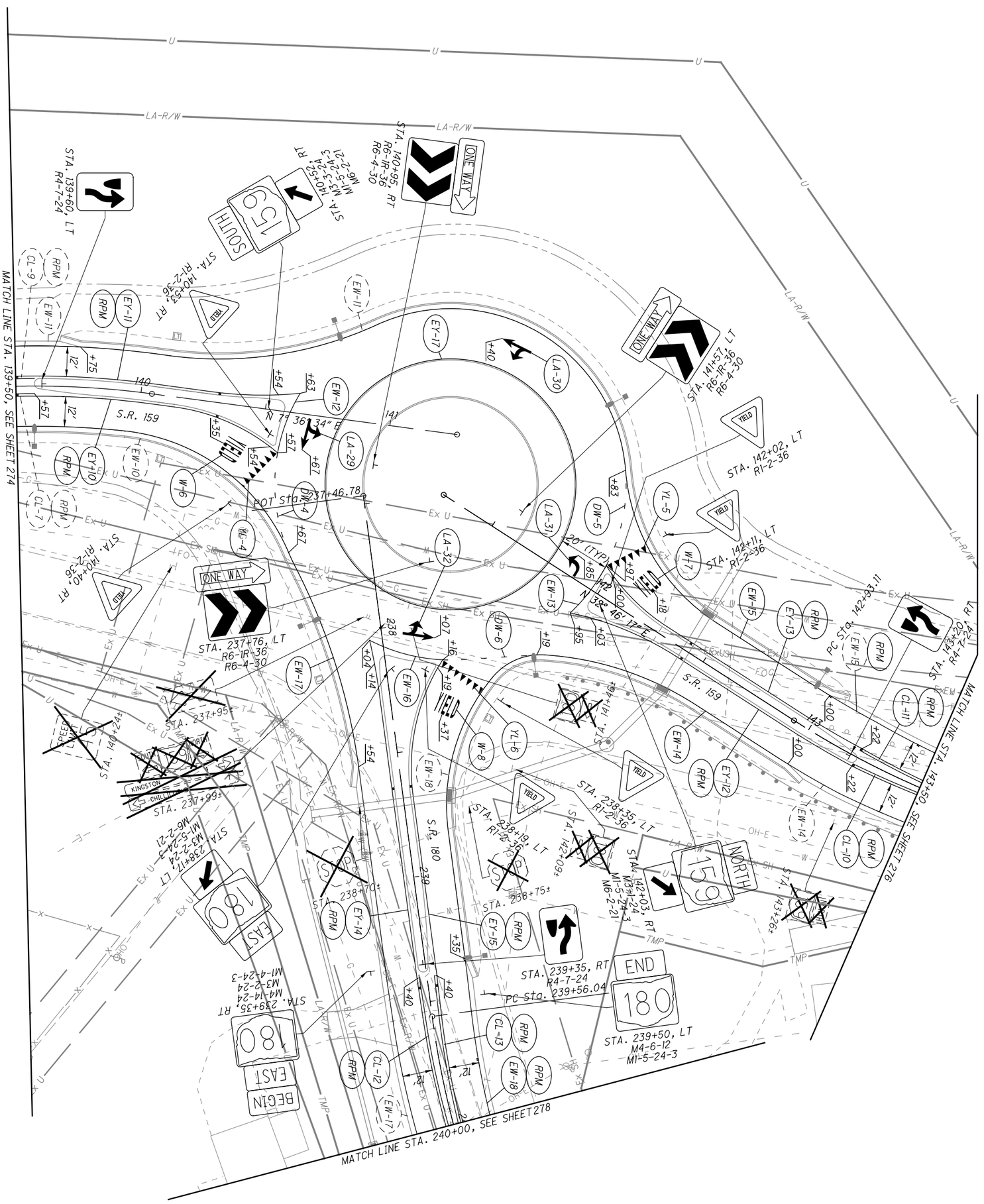
TRAFFIC CONTROL PLAN - S.R. 159
STA. 134+50 TO STA. 139+50

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

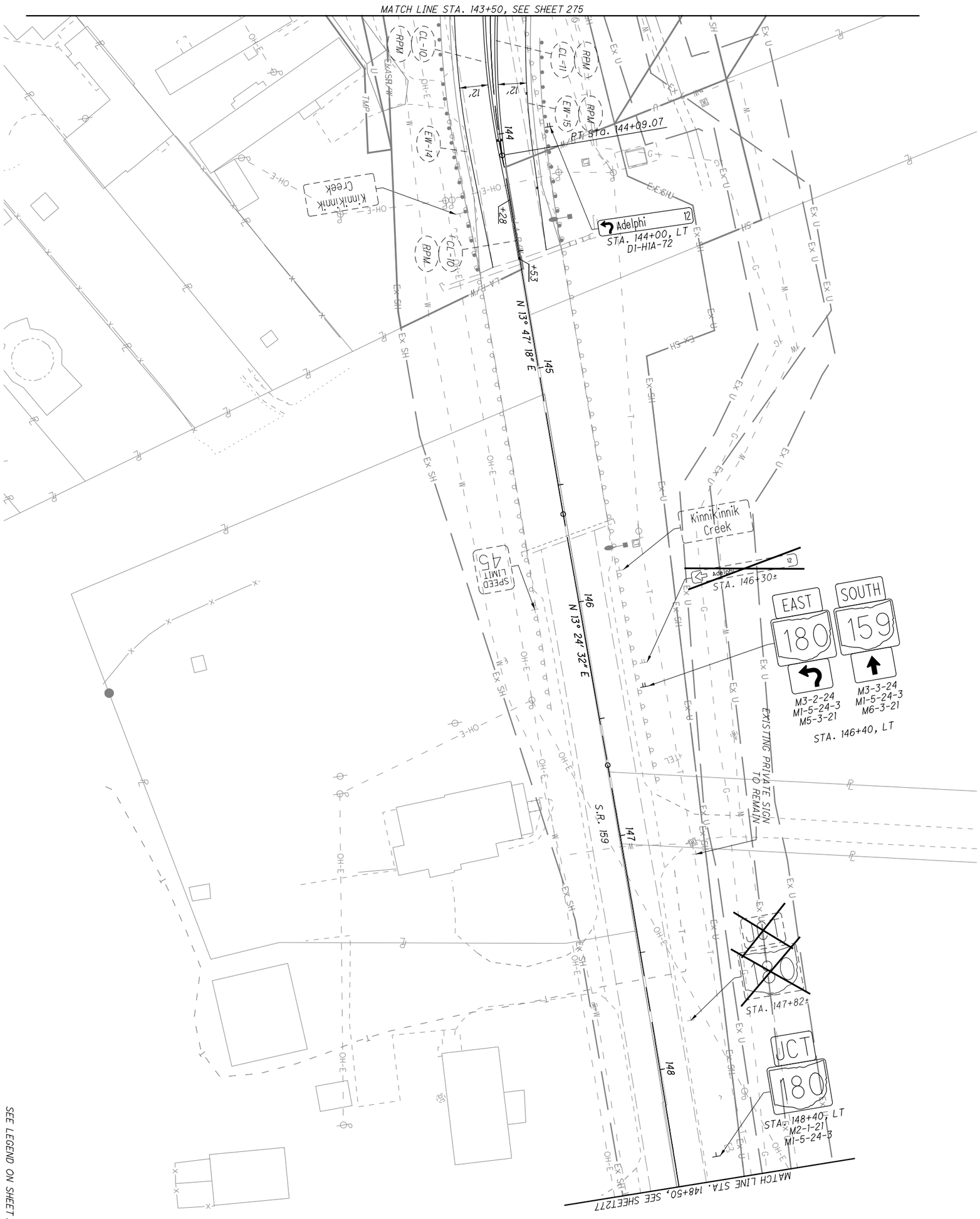
N

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SEE LEGEND ON SHEET 259

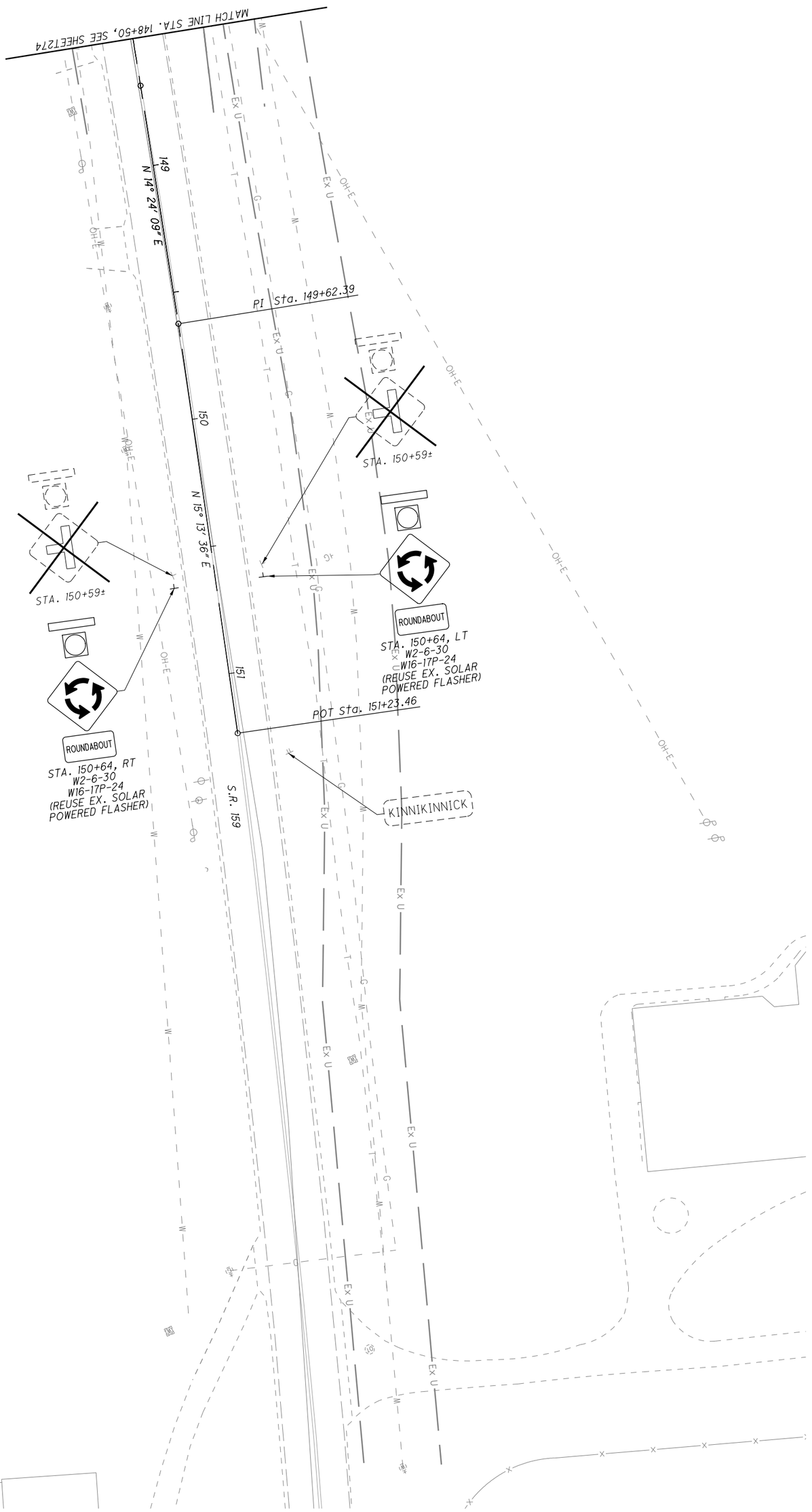
275 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159/S.R. 180 STA. 139+50 TO STA. 143+50	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET



SEE LEGEND ON SHEET 259

276 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 159 STA. 143+50 TO STA. 148+50	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET

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SEE LEGEND ON SHEET 259

277
332

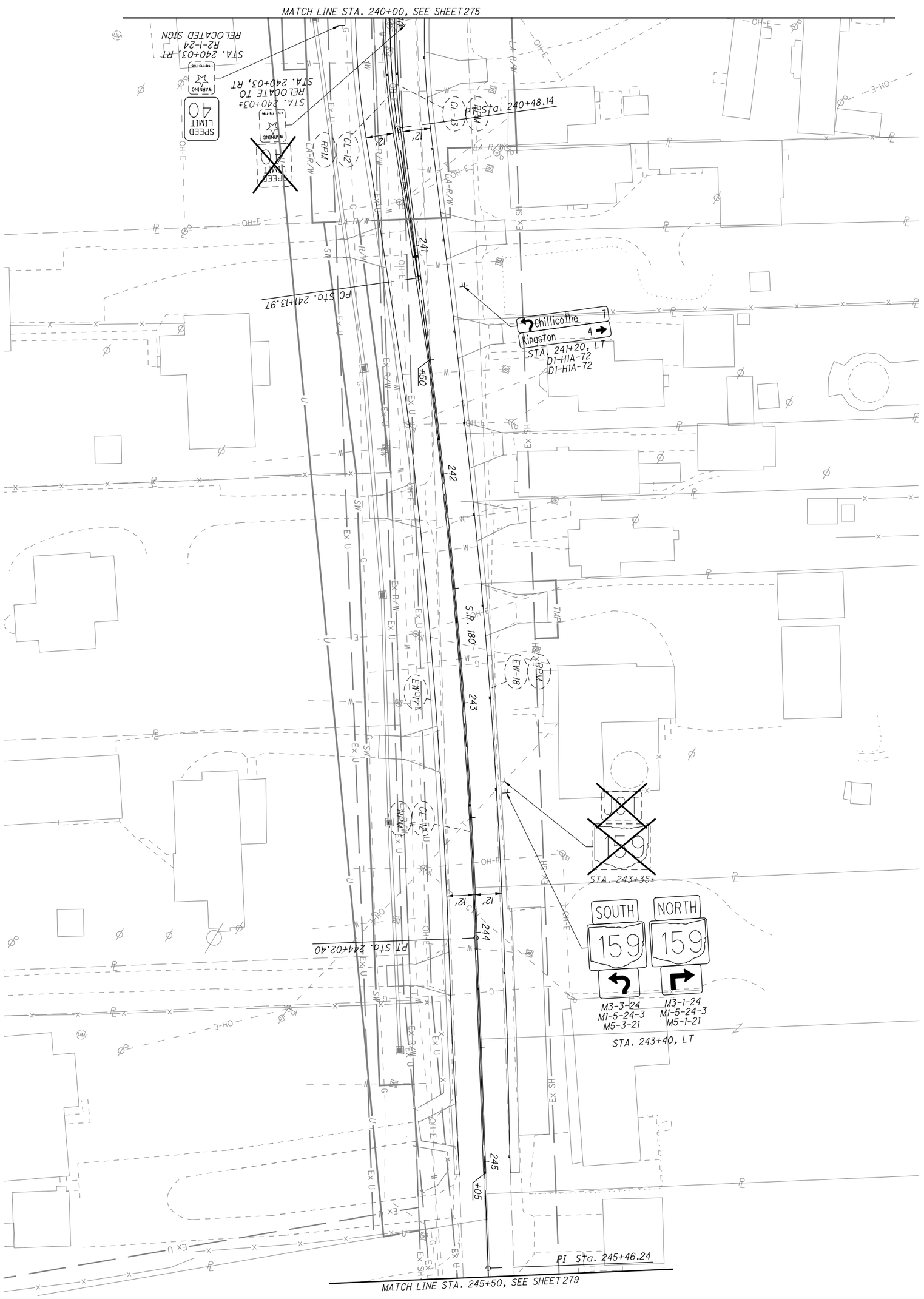
ROS-207-0.00

TRAFFIC CONTROL PLAN - S.R. 159
STA. 148+50 TO END WORK

CALCULATED NDE
CHECKED ADL

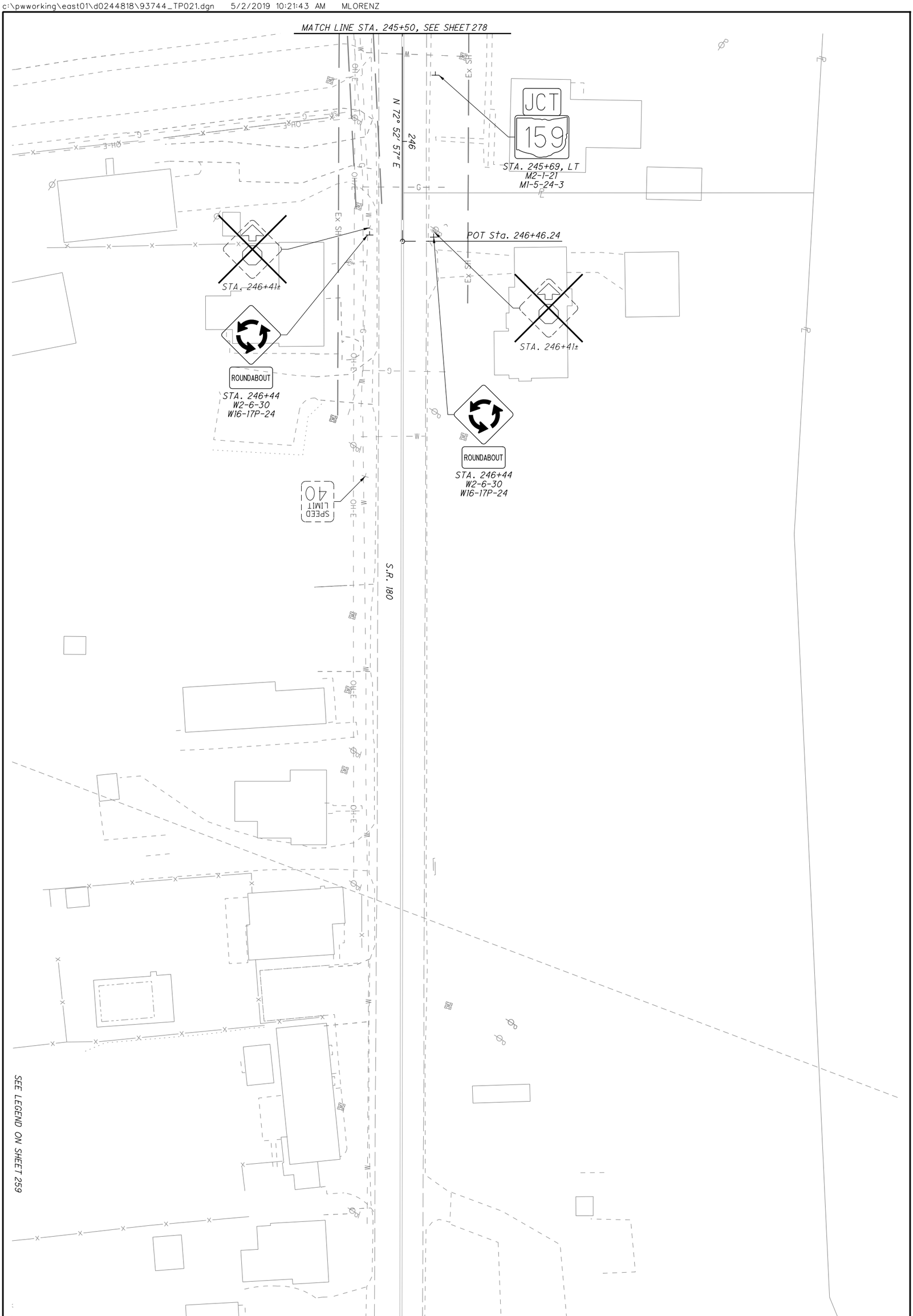
0 10 20 40
HORIZONTAL SCALE IN FEET

c:\pwworking\east01\d0244818\93744_TP020.dgn 5/2/2019 10:21:29 AM MLORENZ



278 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - S.R. 180 STA. 240+00 TO 245+50	CALCULATED NDE CHECKED ADL	0 20 10 40 HORIZONTAL SCALE IN FEET

c:\pwworking\east01\d0244818\93744_TP021.dgn 5/2/2019 10:21:43 AM MLORENZ



279
332

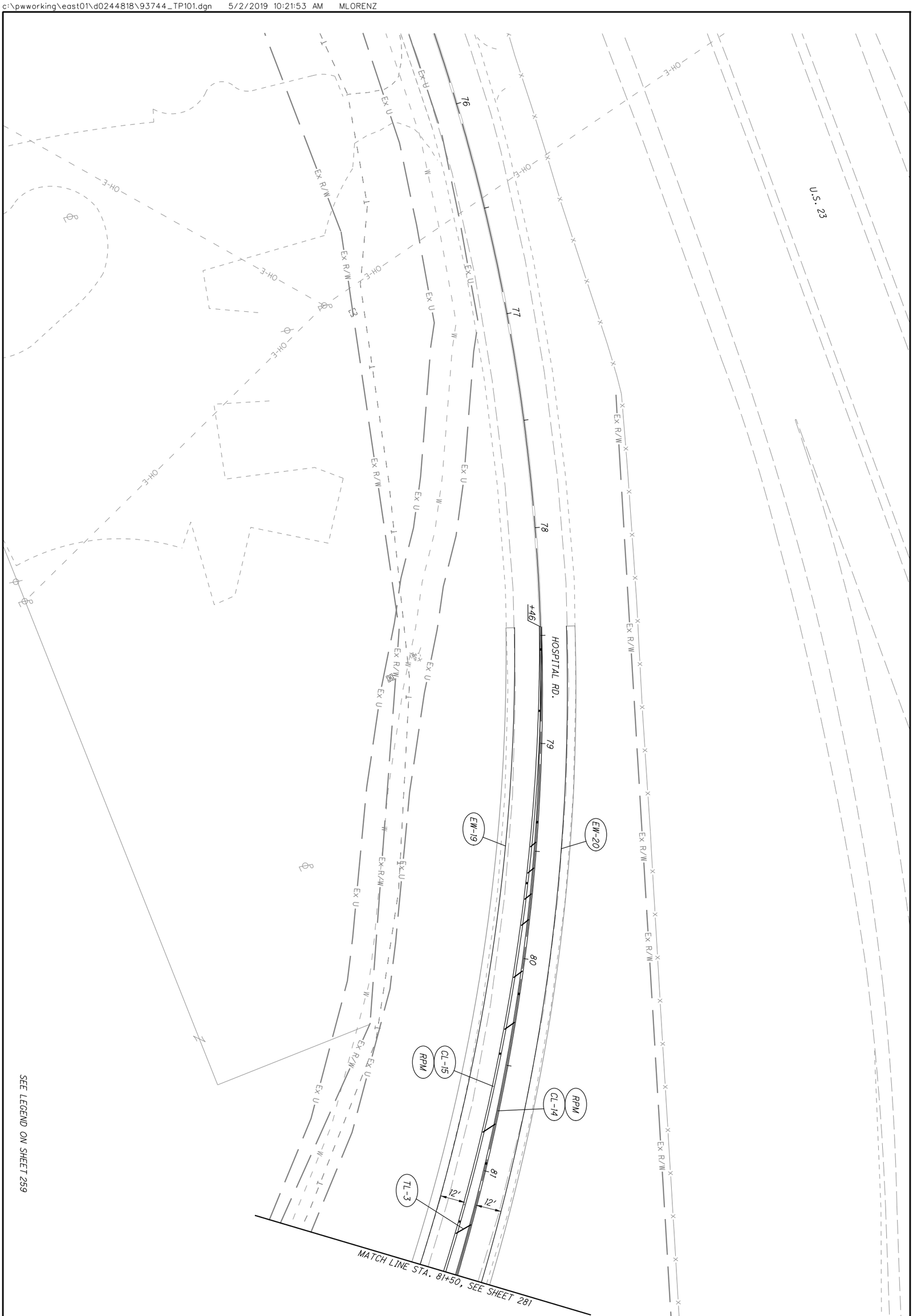
ROS-207-0.00

TRAFFIC CONTROL PLAN - S.R. 180
STA. 245+50 TO END WORK

CALCULATED NDE
CHECKED ADL

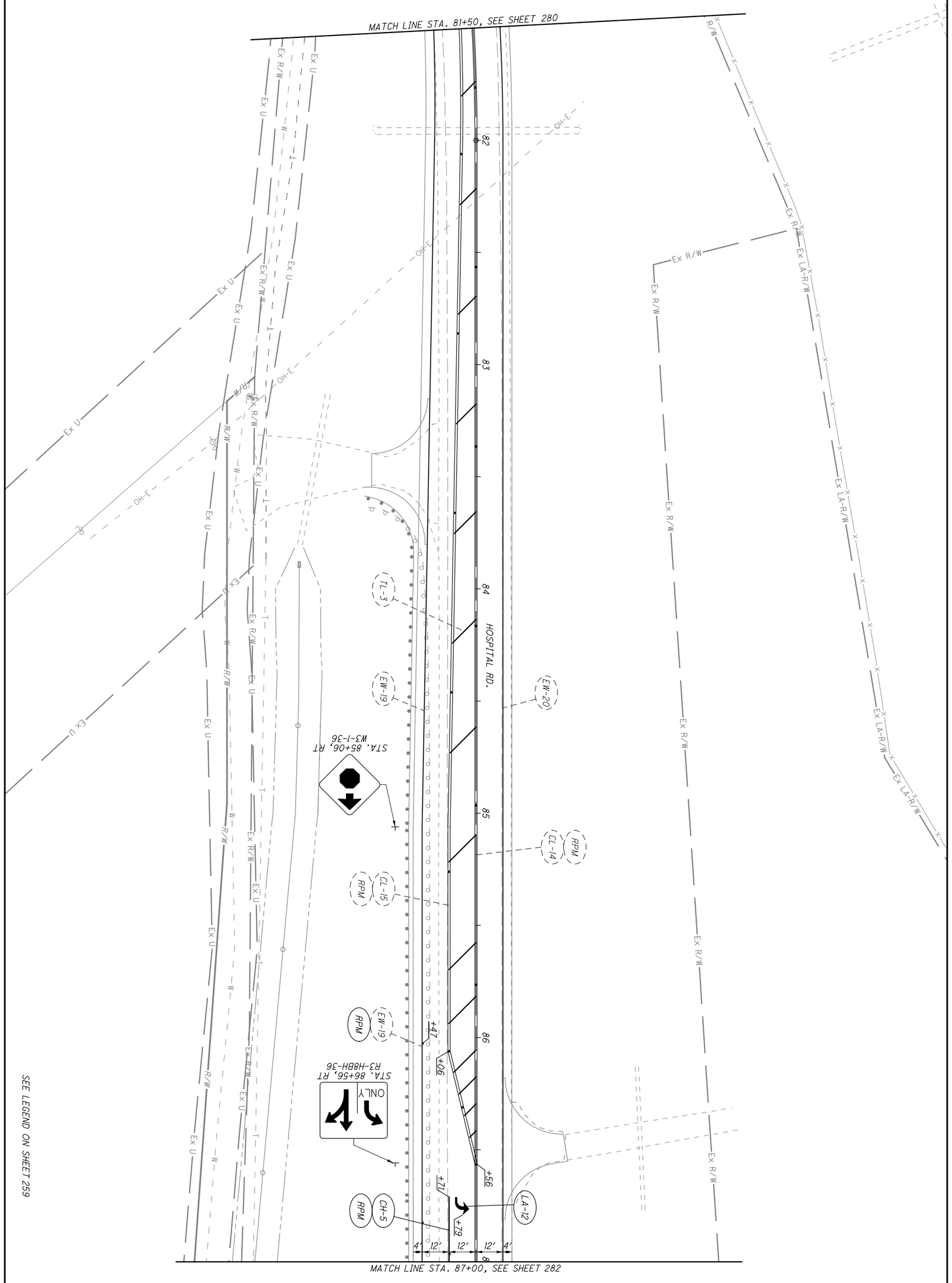
0 10 20 40
HORIZONTAL SCALE IN FEET

c:\pwworking\east01\d0244818\93744_TP101.dgn 5/2/2019 10:21:53 AM MLORENZ



280 / 332	ROS-207-0.00	TRAFFIC CONTROL PLAN - HOSPITAL RD. BEGIN WORK TO STA. 81+50	CALCULATED NDE CHECKED ADL	0 10 20 40 HORIZONTAL SCALE IN FEET

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SEE LEGEND ON SHEET 259

281
332

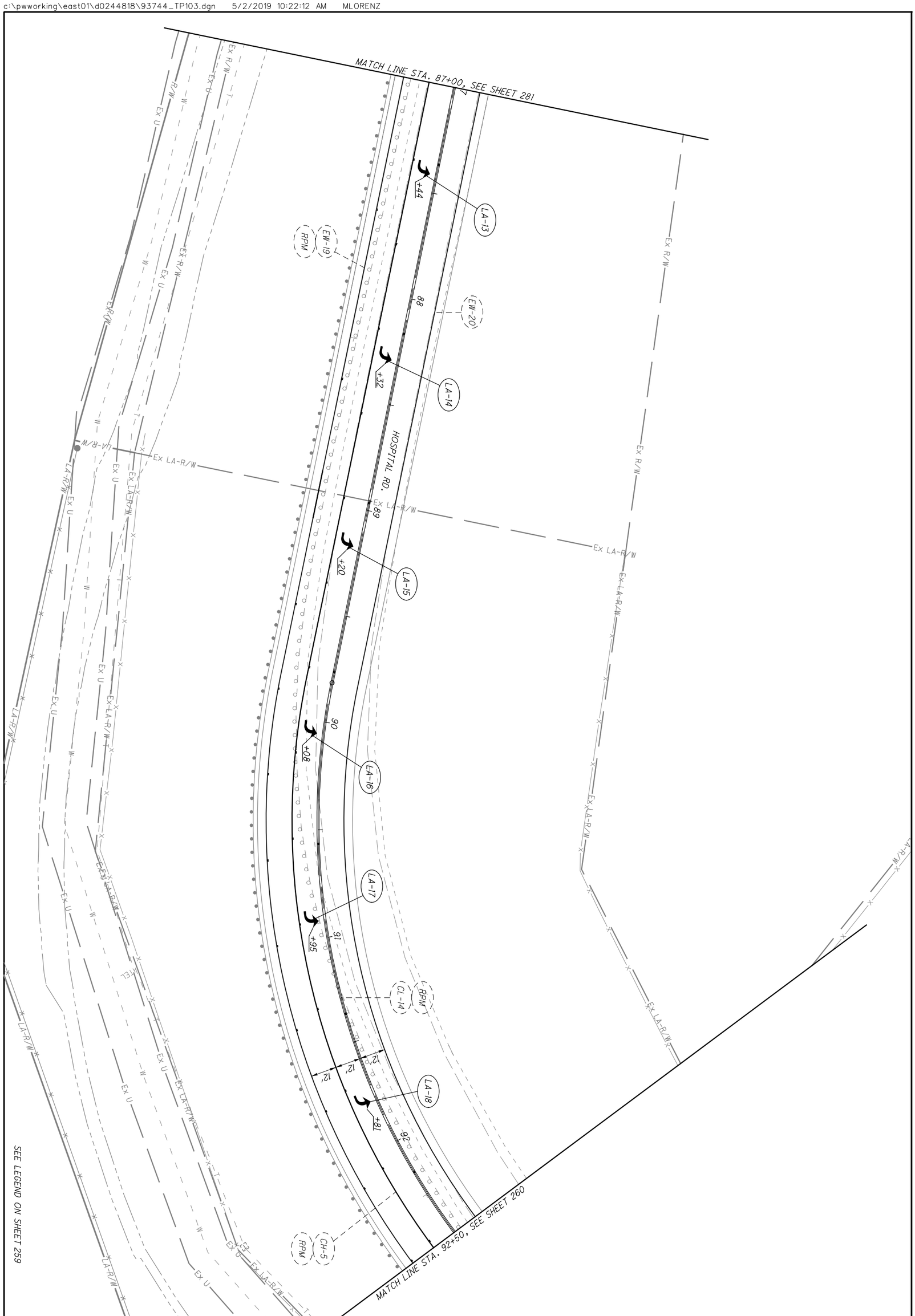
ROS-207-0.00

TRAFFIC CONTROL PLAN - HOSPITAL RD.
STA. 81+50 TO STA. 87+00

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

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282
332

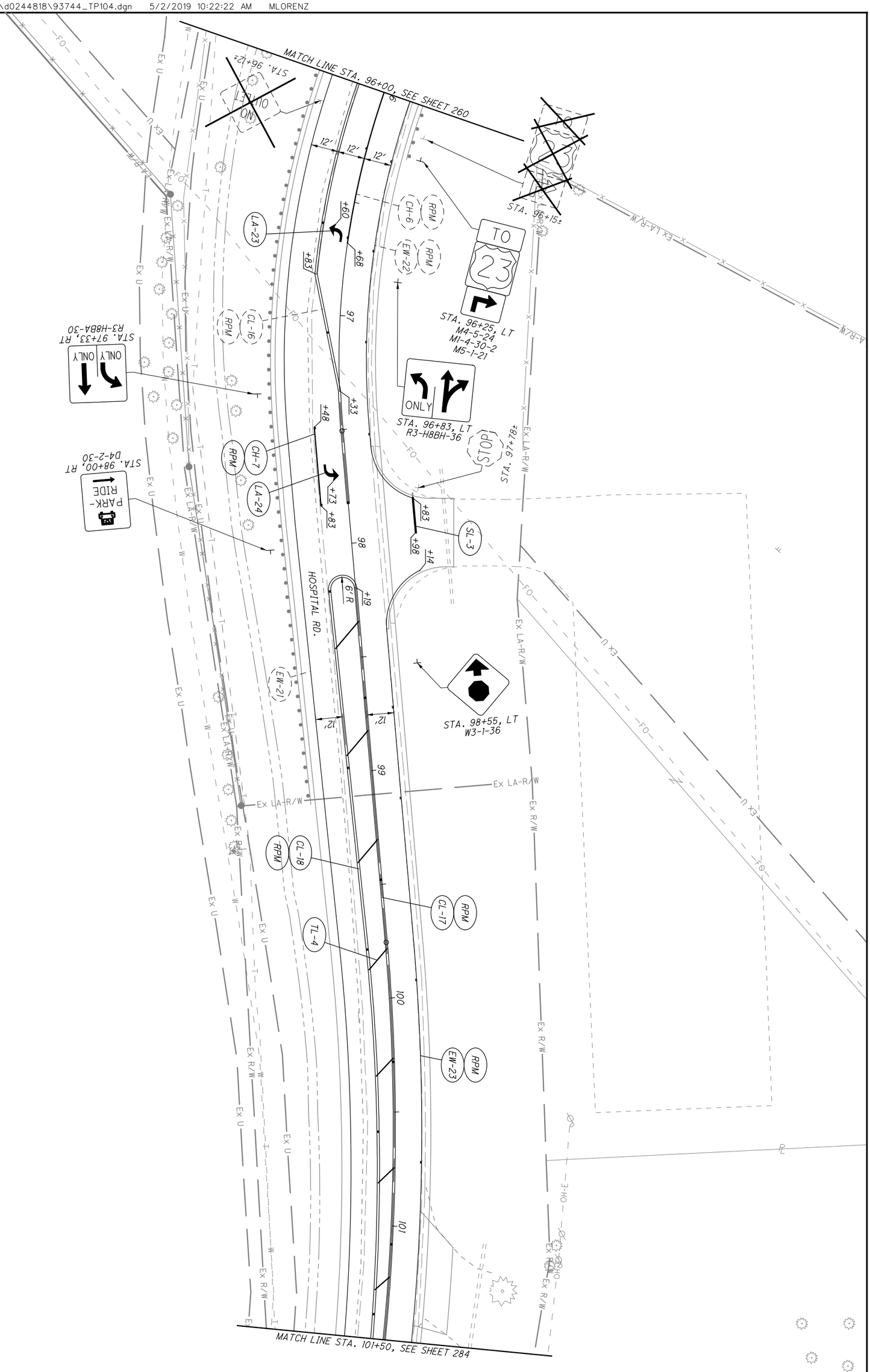
ROS-207-0.00

TRAFFIC CONTROL PLAN - HOSPITAL RD.
STA. 87+00 TO STA. 92+50

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

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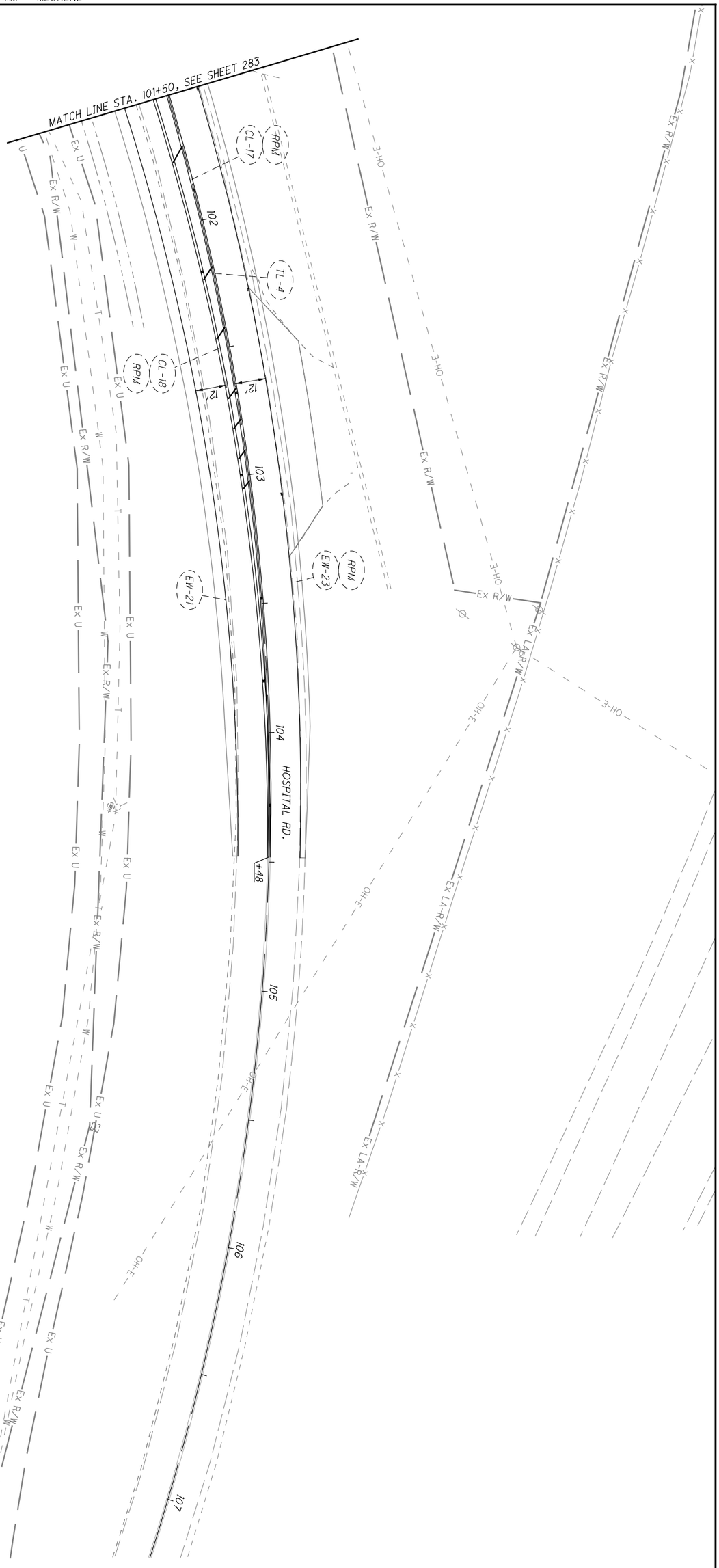
283
332

ROS-207-0.00

TRAFFIC CONTROL PLAN - HOSPITAL RD.
STA. 96+00 TO STA. 101+50

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET



SEE LEGEND ON SHEET 259

284
332

ROS-207-0.00

TRAFFIC CONTROL PLAN - HOSPITAL RD.
STA. 101+50 TO END WORK

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

SEE LEGEND ON SHEET 259

CALCULATED NDE
CHECKED ADL

0 10 20 40
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN - U.S. 23 RAMPS
U.S. 23 NB AND SB RAMPS TO S.R. 207

ROS-207-0.00

285
332

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SHEET NO.	STATION FROM	STATION TO	SIDE	POLE/PULL BOX NO.	625 CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT8B30	LIGHT POLE FOUNDATION, 24" X 8' DEEP	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.04	CONDUIT, 2", 725.05	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-II-M, LED, 10500-12500 LUMENS, AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE	CONTROL CENTER CABINET, COMPLETE	PLASTIC CAUTION TAPE			
					EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	FT			
	119+68		RT	CC-A													1	1				
	119+68	119+65	RT						106			16		16					16			
288	119+65		RT	PB-1		3									1							
	119+65	118+45	RT						310			100		100					100			
	118+45		RT	A1-1	2		1	1		150			1			1						
	118+45	117+46	RT	-					370			120		120					120			
	117+46		RT	PB-2		3									1							
288	117+46	116+00	RT	-					454			148		148					148			
	116+00		RT	A1-2	2		1	1		150			1			1						
	117+46	117+46	RT/LT	-					160			50		50					50			
	117+46		LT	PB-3		3									1							
	117+46	117+36	LT	-					40			10		10					10			
288	117+36		LT	A1-3	2		1	1		150			1			1						
	117+46	118+30	LT	-					280			90		90					90			
	118+30		LT	A1-4	2		1	1		150			1			1						
288	118+30	219+30	RT/LT	-					910			300		300					300			
	219+30		RT	A1-5	2		1	1		150			1			1						
	119+65	119+95	RT	-					130			40		40					40			
	119+95		RT	A2-1	2		1	1		150			1			1						
288	119+65	119+65	RT/LT	-					268			86		86					86			
	119+65		LT	PB-4		3									1							
	119+65	119+19	LT	-					190			60		60					60			
	119+19		LT	A2-2	2		1	1		150			1			1						
	119+19	220+82	LT	-					460			150		150					150			
288	220+82		LT	A2-3	2		1	1		150			1			1						
	119+65	121+38	LT	-					535			175		175					175			
	121+38		LT	A2-4	2		1	1		150			1			1						
SUBTOTALS CARRIED TO SHEET 287					18	12	9	9	4213	1350	0	1345	9	1345	4	9	1	1	1345			

CALCULATED NDE
CHECKED ADL

LIGHTING SUBSUMMARY - S.R. 207 & S.R. 159

ROS-207-0.00

286
332

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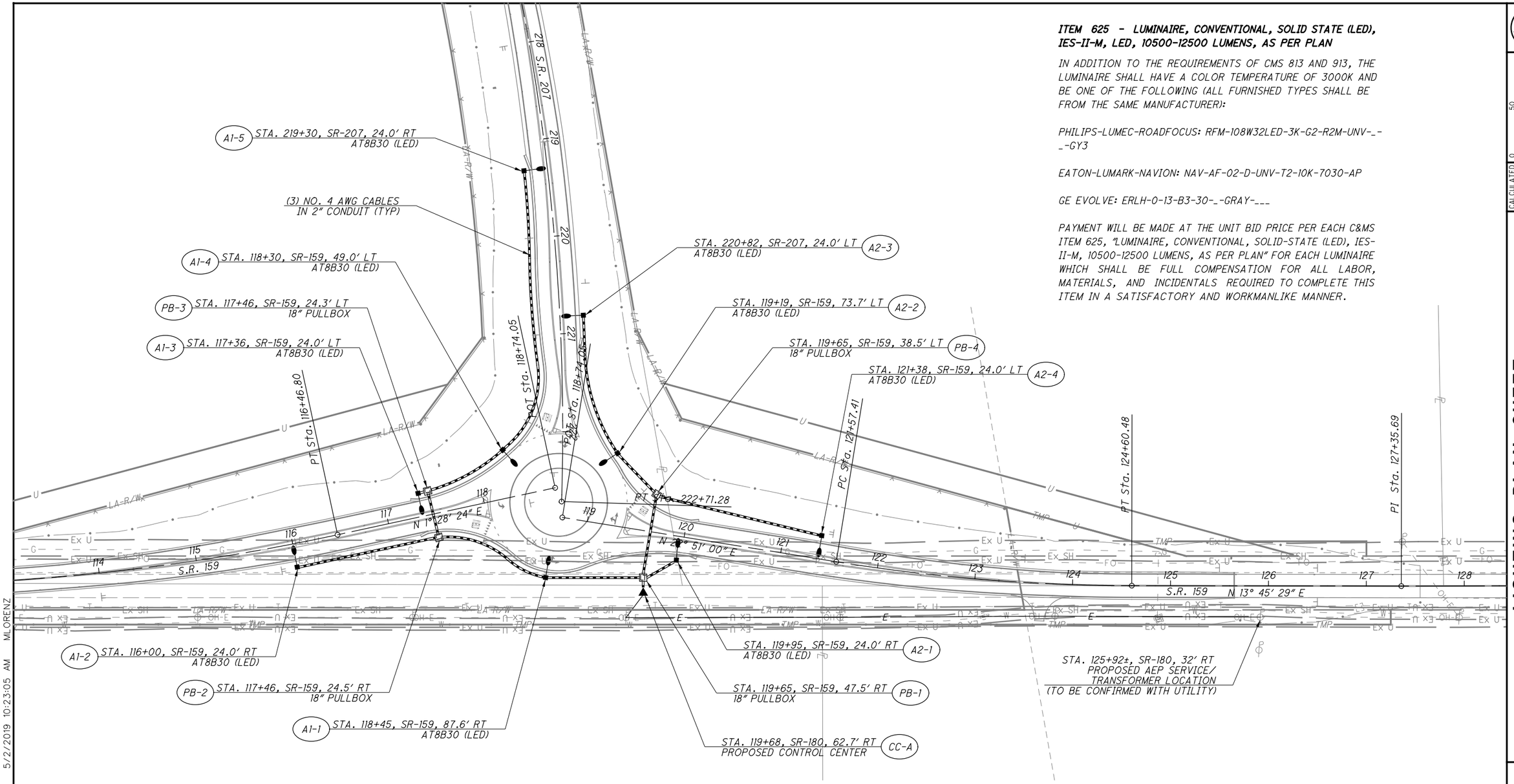
SHEET NO.	STATION FROM	STATION TO	SIDE	POLE / PULL BOX NO.	625 CONNECTION, FUSED PULL APART EACH	CONNECTION, UNFUSED PERMANENT EACH	LIGHT POLE, CONVENTIONAL, AT8B30 EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	NO. 10 AWG POLE AND BRACKET CABLE FT	CONDUIT, 2", 725.04 FT	CONDUIT, 2", 725.05 FT	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-TI-M, LED, 10500-12500 LUMENS, AS PER PLAN EACH	TRENCH FT	PULL BOX, 725.08, 18" EACH	GROUND ROD EACH	POWER SERVICE EACH	CONTROL CENTER CABINET, COMPLETE EACH	PLASTIC CAUTION TAPE FT			
	238+19		RT	CC-B														1	1			
	238+19	238+17	RT	-					100			15		15						15		
289	238+17		RT	PB-1											1							
	238+17	237+95	RT	-					79			23		23						23		
	237+95		RT	B1-1	2		1	1		150			1			1						
	237+95	140+11	RT	-		3			283			91		91						91		
	140+11		RT	PB-2											1							
289	140+11	139+57	RT	-					163			51		51						51		
	139+57		RT	B1-2	2		1	1		150			1			1						
	140+11	140+11	RT/LT	-					160			50		50						50		
	140+11		LT	PB-3											1							
	140+11	140+72	LT	-					205			65		65						65		
289	140+72		LT	B1-3	2		1	1		150			1			1						
	140+72	142+67	LT	-					415			135		135						135		
	142+67		LT	B1-4	2		1	1		150			1			1						
	142+67	142+93	LT	-					445			145		145						145		
	142+93		LT	B1-5	2		1	1		150			1			1						
289	142+93	144+18	LT	-					355			115		115						115		
	144+18		LT	PB-4		3									1							
	144+18	144+39	LT	-					85			25		25						25		
	144+39		LT	B1-6	2		1	1		150			1			1						
	144+18	145+80	LT	-					550		180			68						68		
289	145+80		LT	PB-5											1							
	145+80	145+80	LT	-					25			5		5						5		
	145+80		LT	B1-7	2		1	1		150			1			1						
	238+17	238+41	RT/LT	-					220			70		70						70		
	238+41		RT	PB-6		3									1							
289	238+41	238+27	RT	-					91			27		27						27		
	238+27		RT	B2-1	2		1	1		150			1			1						
	238+41	239+35	RT	-					310			100		100						100		
289	239+35		RT	B2-2	2		1	1		150			1			1						
	SUBTOTALS THIS SHEET				18	9	9	9	3486	1350	180	917	9	985	6	9	1	1	985			
	SUBTOTALS FROM SHEET 286				18	12	9	9	4213	1350	0	1345	9	1345	4	9	1	1	1345			
	TOTALS CARRIED TO GENERAL SUMMARY				36	21	18	18	7699	2700	180	2262	18	2330	10	18	2	2	2330			

CALCULATED NDE
CHECKED ADL

LIGHTING SUBSUMMARY - S.R. 207 & S.R. 180

ROS-207-0.00

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ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-II-M, LED, 10500-12500 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 813 AND 913, THE LUMINAIRE SHALL HAVE A COLOR TEMPERATURE OF 3000K AND BE ONE OF THE FOLLOWING (ALL FURNISHED TYPES SHALL BE FROM THE SAME MANUFACTURER):

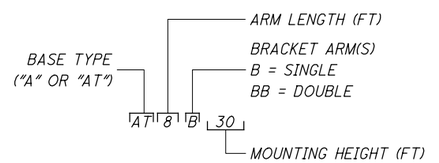
PHILIPS-LUMEC-ROADFOCUS: RFM-108W32LED-3K-G2-R2M-UNV-_-_-GY3

EATON-LUMARK-NAVION: NAV-AF-02-D-UNV-T2-10K-7030-AP

GE EVOLVE: ERLH-0-13-B3-30-_-GRAY-___

PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER EACH C&MS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID-STATE (LED), IES-II-M, 10500-12500 LUMENS, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

LIGHT POLE INFORMATION



NOTES:

1. ALL CONDUIT IS PVC UNLESS OTHERWISE NOTED.

LEGEND

- PROPOSED 2" CONDUIT WITH (3) NO. 4 AWG CABLES
- PROPOSED PULLBOX
- PROPOSED CONTROL CENTER
- PROPOSED GROUND MOUNTED LIGHT POLE

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED NDE
CHECKED ADL

LIGHTING PLAN SHEET
S.R. 207 / S.R. 159 ROUNDABOUT

ROS-207-0.00

288
332

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B1-3 STA. 140+72, S.R.-159, 38.7' LT
AT8B30 (LED)

PB-3 STA. 140+11, S.R.-159, 24.0' LT
18" PULLBOX

B1-2 STA. 139+57, S.R.-159, 24.0' RT
AT8B30 (LED)

PC Sta. 135+55.95

PT Sta. 138+47.79

PC Sta. 139+34.73

PT Sta. 140+04.34

ROT Sta. 141+27.04

N 7° 36' 34" E

N 37° 21' 15" W

25" E

S.R. 159

(3) NO. 4 AWG CABLES
IN 2" CONDUIT (TYP)

STA. 142+67, S.R.-159, 72.0' LT
AT8B30 (LED) B1-4

STA. 142+93, S.R.-159, 24.0' LT
AT8B30 (LED) B1-5

STA. 144+18, S.R.-159, 34.2' LT
18" PULLBOX PB-4

STA. 144+39, S.R.-159, 23.8' LT
AT8B30 (LED) B1-6

(3) NO. 4 AWG CABLES
IN 2" RMC (SEE NOTE 1)

STA. 145+80, S.R.-159, 28.1' LT
18" PULLBOX PB-5

STA. 145+80, S.R.-159, 23.5' LT
AT8B30 (LED) B1-7

PB-2 STA. 140+11, S.R.-159, 25.3' RT
18" PULLBOX

B1-1 STA. 237+95, S.R.-180, 31.7' RT
AT8B30 (LED)

CC-B STA. 238+19, S.R.-180, 41' RT
PROPOSED CONTROL CENTER

STA. 238+30±, 45.4' RT
PROPOSED AEP SERVICE/
TRANSFORMER LOCATION
(TO BE CONFIRMED WITH UTILITY)

PB-1 STA. 238+17, S.R.-180, 27.0' RT
18" PULLBOX

STA. 238+27, S.R.-180, 58.8' LT
AT8B30 (LED) B2-1

STA. 238+41, S.R.-180, 38.0' LT
18" PULLBOX PB-6

STA. 239+35, S.R.-180, 24.0' LT
AT8B30 (LED) B2-2

S.R. 180 24P

NOTES:

1. INSTALL 2" RMC ACROSS EXISTING BOX CULVERT. ATTACH CONDUIT TO BOTTOM OF GUARDRAIL I-BEAM POSTS USING HDG BEAM CLAMP (THAT SPANS BOTH SIDES OF THE BEAM FLANGE) AND APPROVED CONDUIT HANGERS/SUPPORTS OR OTHER METHOD APPROVED BY THE ENGINEER. SUPPORT CONDUIT A MINIMUM OF EVERY 12 FEET AND PER NEC REQUIREMENTS. INSTALL CONDUIT EXPANSION FITTINGS AT BOTH ENDS OF THE CULVERT. THIS WORK SHALL BE INCLUDED IN ITEM 625 - CONDUIT, 2", 725.04.

2. ALL CONDUIT IS PVC UNLESS OTHERWISE NOTED.

LIGHT POLE INFORMATION

BASE TYPE ("A" OR "AT")
ARM LENGTH (FT)
BRACKET ARM(S)
B = SINGLE
BB = DOUBLE
MOUNTING HEIGHT (FT)

AT 8 B 40

LEGEND

- PROPOSED 2" CONDUIT WITH (3) NO. 4 AWG CABLES
- PROPOSED PULLBOX
- PROPOSED CONTROL CENTER
- PROPOSED GROUND MOUNTED LIGHT POLE

HORIZONTAL SCALE IN FEET
0 25 50 100

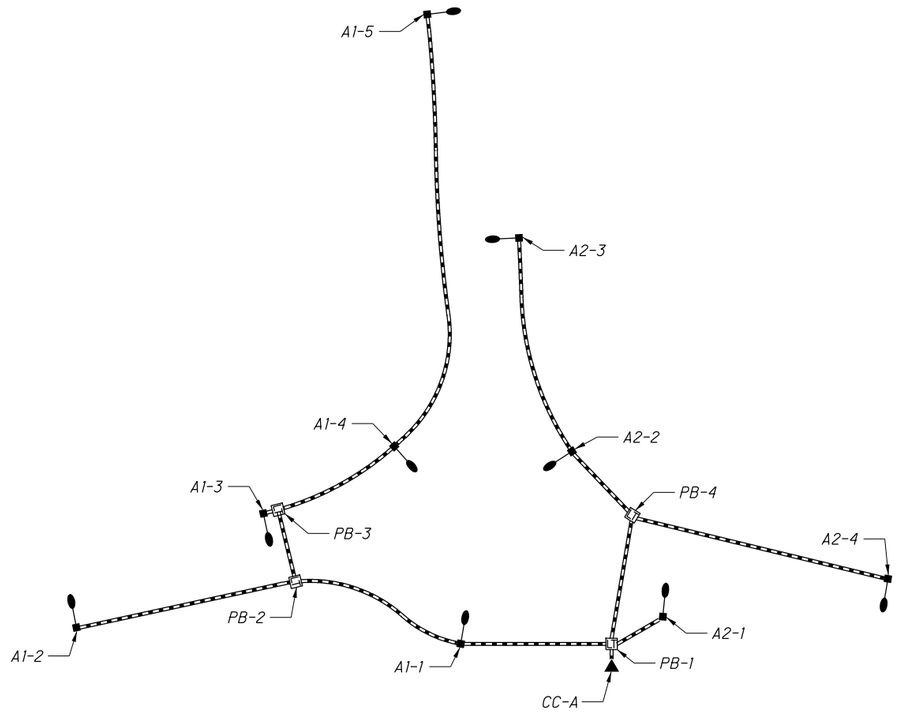
CALCULATED NDE
CHECKED ADL

LIGHTING PLAN SHEET
S.R. 159 / S.R. 180 ROUNDABOUT

ROS-207-0.00

289
332

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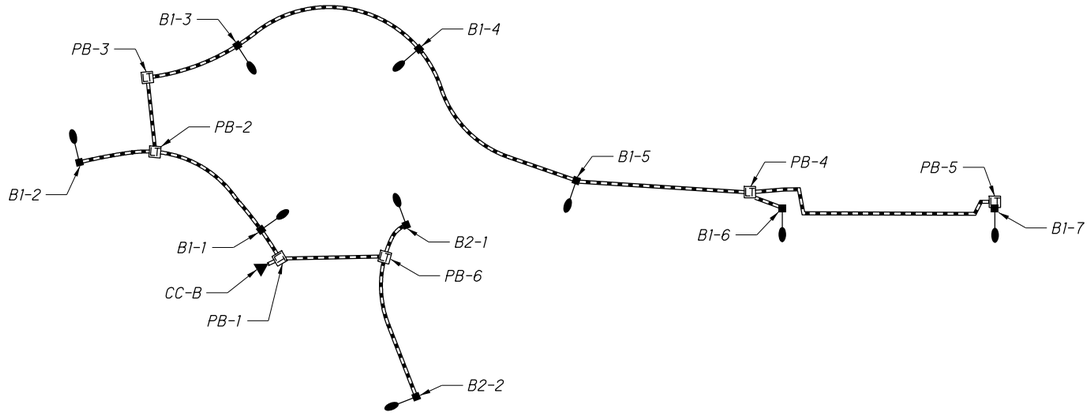
CIRCUIT 'A' DIAGRAM
S.R. 159/ S.R. 207 ROUNDABOUT

VOLTAGE DROP - CIRCUIT A1

SECTION			AMPERES		AMP-FT	AWG	VOLTAGE DROP		% DROP	AT PT.
FROM	TO	FEET	AT PT.	ACCUM.			IN SECT.	ACCUM.		
CC-A	A1-1	115	0.6	3.2	367	4	0.23	0.23	0.1%	A1-1
A1-1	PB-2	120	0.0	2.6	306	4	0.19	0.41	0.2%	PB-2
PB-2	A1-2	150	0.6	0.6	96	4	0.06	0.47	0.2%	A1-2
PB-2	PB-3	50	0.0	1.9	96	4	0.06	0.47	0.2%	PB-3
PB-3	A1-3	10	0.6	0.6	6	4	0.00	0.48	0.2%	A1-3
PB-3	A1-4	90	0.6	1.3	115	4	0.07	0.54	0.2%	A1-4
A1-4	A1-5	300	0.6	0.6	192	4	0.12	0.66	0.3%	A1-5

VOLTAGE DROP - CIRCUIT A2

SECTION			AMPERES		AMP-FT	AWG	VOLTAGE DROP		% DROP	AT PT.
FROM	TO	FEET	AT PT.	ACCUM.			IN SECT.	ACCUM.		
CC-A	PB-1	15	0.0	2.6	38	4	0.02	0.02	0.0%	PB-1
PB-1	A2-1	40	0.6	0.6	26	4	0.02	0.04	0.0%	A2-1
PB-1	PB-4	85	0.0	1.9	163	4	0.10	0.12	0.1%	PB-4
PB-4	A2-2	60	0.6	1.3	77	4	0.05	0.17	0.1%	A2-2
A2-2	A2-3	140	0.6	0.6	89	4	0.06	0.23	0.1%	A2-3
PB-4	A2-4	175	0.6	0.6	112	4	0.07	0.19	0.1%	A2-4



CIRCUIT 'B' DIAGRAM
S.R. 159/ S.R. 180 ROUNDABOUT

VOLTAGE DROP - CIRCUIT B1

SECTION			AMPERES		AMP-FT	AWG	VOLTAGE DROP		% DROP	AT PT.
FROM	TO	FEET	AT PT.	ACCUM.			IN SECT.	ACCUM.		
CC-B	B1-1	40	0.6	4.5	179	4	0.11	0.11	0.0%	B1-1
B1-1	PB-2	90	0.0	3.8	345	4	0.21	0.32	0.1%	PB-2
PB-2	B1-2	50	0.6	0.6	32	4	0.02	0.34	0.1%	B1-2
PB-2	B1-3	115	0.6	3.2	367	4	0.23	0.55	0.2%	B1-3
B1-3	B1-4	135	0.6	2.6	345	4	0.21	0.76	0.3%	B1-4
B1-4	B1-5	145	0.6	1.9	278	4	0.17	0.93	0.4%	B1-5
B1-5	B1-6	120	0.6	1.3	153	4	0.09	1.03	0.4%	B1-6
B1-6	B1-7	200	0.6	0.6	128	4	0.08	1.11	0.5%	B1-7

VOLTAGE DROP - CIRCUIT B2

SECTION			AMPERES		AMP-FT	AWG	VOLTAGE DROP		% DROP	AT PT.
FROM	TO	FEET	AT PT.	ACCUM.			IN SECT.	ACCUM.		
CC-B	PB-6	85	0.0	1.3	109	4	0.07	0.07	0.0%	PB-6
PB-6	B2-1	25	0.6	0.6	16	4	0.01	0.08	0.0%	B2-1
PB-6	B2-2	100	0.6	0.6	64	4	0.04	0.11	0.0%	B2-2

CONTROL CENTER INFORMATION

CONTROL CENTER DESIGNATION	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
CC-A	240	1.4	2	60	A1	3.20	10	4	ODOT
					A2	2.60	10	4	
CC-B	240	1.4	2	60	B1	4.50	10	4	ODOT
					B2	1.30	10	4	

LEGEND

- PROPOSED CONDUIT
- PROPOSED PULLBOX
- PROPOSED CONTROL CENTER
- PROPOSED GROUND MOUNTED LIGHT POLE

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED NDE
CHECKED ADL

LIGHTING CIRCUIT DIAGRAM
ROUNDABOUT

ROS-207-0.00

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RIGHT OF WAY LEGEND SHEET ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W
SECTION 19 & 30, TOWNSHIP 9N, RANGE 21 W

UTILITIES

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

ELECTRIC:
AMERICAN ELECTRIC POWER (DISTRIBUTION)
850 TECH CENTER DR.
GAHANNA, OH 43230
CONTACT: PAUL PAXTON
PHONE: (614) 883-6831

AMERICAN ELECTRIC POWER (TRANSMISSION)
700 MORRISON ROAD
GAHANNA, OH 43230
CONTACT: MIKE CARR
PHONE: (614) 552-1893

SOUTH CENTRAL POWER COMPANY
P. O. BOX 250
LANCASTER, OH 43130
CONTACT: ZACHERY REED
PHONE: (740) 689-6150

FIBER OPTIC:
AT&T
7555 E. PLEASANT VALLEY RD.
SUITE 140
INDEPENDENCE, OHIO 44131
CONTACT: MIKE DIEDERICH
PHONE: (216) 750-0135

GAS:
COLUMBIA GAS OF OHIO
843 PIATT AVENUE
CHILLICOTHE, OH 45601
CONTACT: CARY MACLAUGHLIN
PHONE: (740) 774-8239

TELEPHONE:
HORIZON CHILLICOTHE TELEPHONE
P.O. BOX 480
CHILLICOTHE, OHIO 45601
CONTACT: JIM MITCHELL
PHONE: (740) 772-8264

WATER:
ROSS COUNTY WATER
P. O. BOX 1690
CHILLICOTHE, OH 45601
CONTACT: WILLIAM NEAL
PHONE: (740) 774-4117

CABLE:
CHARTER COMMUNICATIONS (FKA TIME WARNER CABLE)
3760 INTERCHANGE DRIVE
COLUMBUS, OH 43204
CONTACT: STEPHEN RAY
PHONE: (614) 255-6340

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

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-5
MONUMENT TABLE	6-8
PROPERTY MAP	9-12
SUMMARY OF ADDITIONAL R/W	13-14
R/W DETAIL & TOPO SHEETS	15-40
OVERLAP TABLES	41-42

PLANS PREPARED BY:

FIRM NAME : 2LMN

PLANS PREPARED BY: CRAIG WOLFE

FIELD REVIEW BY: RICHARD F. MATHIAS
DATE COMPLETED: NOV. 30, 2018

OWNERSHIP VERIFIED BY: J. ALEX ALONZO
DATE COMPLETED: DEC. 03, 2018

DATE COMPLETED: DEC. 07, 2018

PROJECT DESCRIPTION

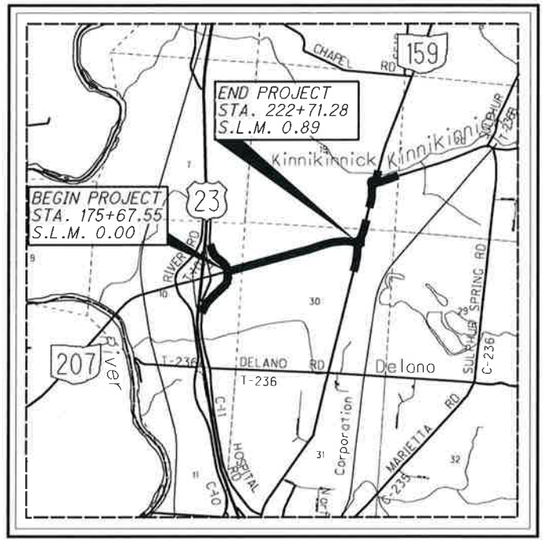
CONSTRUCTION OF A 0.89 MILE EXTENSION OF S.R. 207 FROM THE EXISTING INTERCHANGE AT U.S. 23 TO S.R. 159 SOUTH OF S.R. 180 WITH A PROPOSED ROUNDABOUT. PROJECT ALSO INCLUDES A PROPOSED ROUNDABOUT AT THE INTERSECTION OF S.R. 159 AND S.R. 180, RESURFACING AND WIDENING OF HOSPITAL ROAD, AND ALL ASSOCIATED DRAINAGE, TRAFFIC CONTROL AND LIGHTING.

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.

PROJECT CONTROL

STATE PLANE GRID - OHIO SOUTH NAD83(CORS2011)
PROJECT ADJUSTMENT FACTOR: 1.000091278



LOCATION MAP

LATITUDE: N 39° 25' 07" LONGITUDE: W 82° 57' 52"

SCALE IN MILES
0 1 2 3 4

N

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

TYPES OF TITLE LEGEND

WD = WARRANTY DEED
LA = LIMITED ACCESS
T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT
SW = SEWER EASEMENT
U = UTILITY EASEMENT

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) , Mailbox (Pr) MB
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex)
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

I, RICHARD F. MATHIAS, P. S. have conducted a survey of the existing conditions for District 9 of the Ohio Deptartment of Transportation on December, 2017. The results of that survey are contained herein.

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Richard F. Mathias
RICHARD F. MATHIAS, Professional Land Surveyor No. 7798

5-16-19
Date:

SURVEYORS SEAL

STATE OF OHIO
RICHARD F. MATHIAS
S-7798
REGISTERED
PROFESSIONAL SURVEYOR

FEDERAL PROJECT NO. E170943
PID NO. 93744
CALCULATED CSW
CHECKED RFM
RIGHT OF WAY LEGEND SHEET
ROS-207-0.00
1 / 42
291 / 332

S:\ROS\93744_ROS_207_EXT\Design\RW\Sheets\93744RL001.dgn Sheet 5/16/2019 11:43:32 AM steve.hart

ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY

FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W

SECTION 30, TOWNSHIP 9N, RANGE 21 W

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

BASIS FOR BEARINGS:

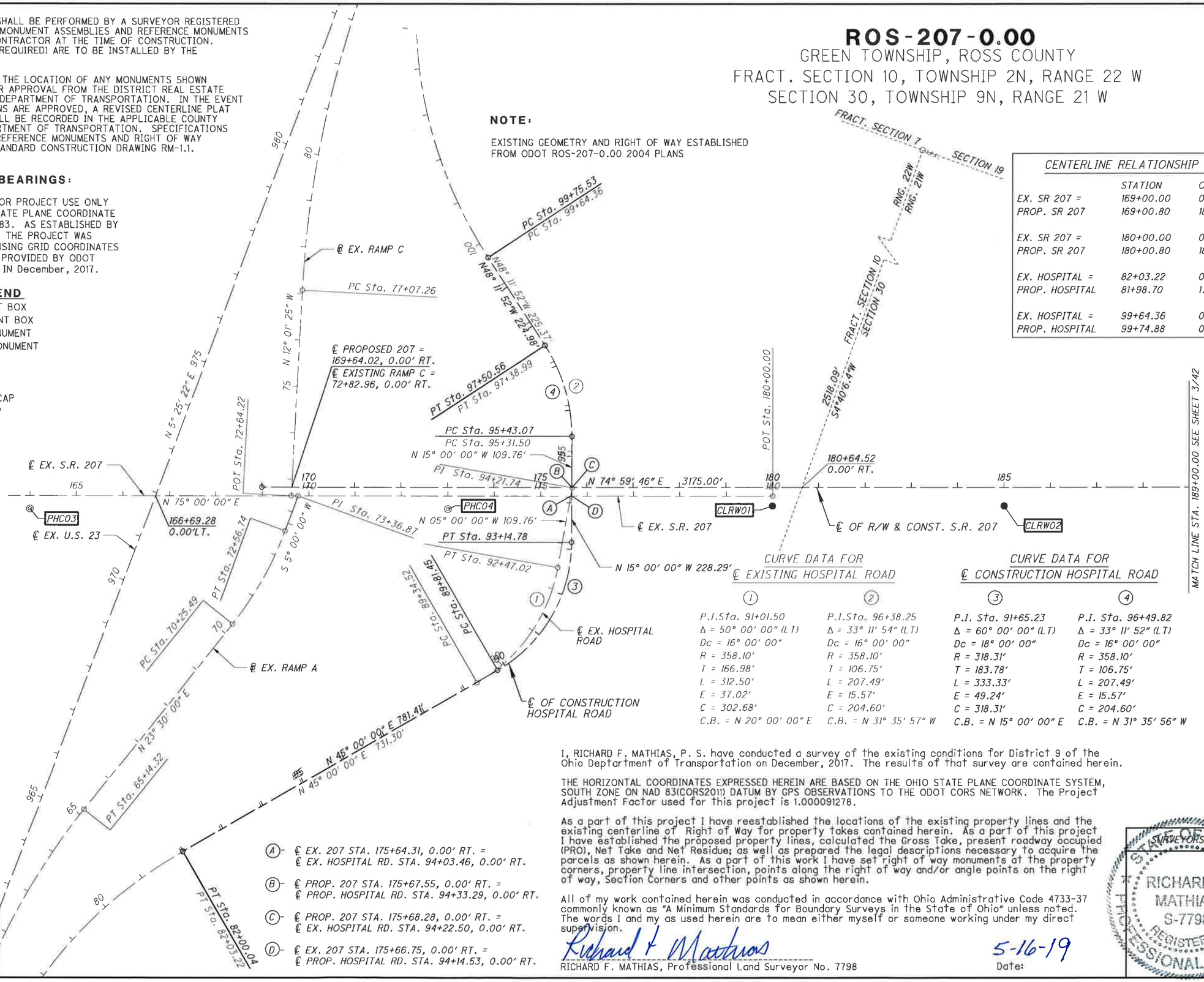
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MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

NOTE:

EXISTING GEOMETRY AND RIGHT OF WAY ESTABLISHED FROM ODOT ROS-207-0.00 2004 PLANS



CENTERLINE RELATIONSHIP DATA

	STATION	OFFSET
EX. SR 207 =	169+00.00	0.00
PROP. SR 207	169+00.80	18.71' LT.
EX. SR 207 =	180+00.00	0.00
PROP. SR 207	180+00.80	18.79' LT.
EX. HOSPITAL =	82+03.22	0.00
PROP. HOSPITAL	81+98.70	1.00' RT.
EX. HOSPITAL =	99+64.36	0.00
PROP. HOSPITAL	99+74.88	0.19' RT.

CURVE DATA FOR ℄ EXISTING HOSPITAL ROAD

①	②
P.I.Sta. 91+01.50	P.I.Sta. 96+38.25
Δ = 50° 00' 00" (LT)	Δ = 33° 11' 54" (LT)
Dc = 16° 00' 00"	Dc = 16° 00' 00"
R = 358.10'	R = 358.10'
T = 166.98'	T = 106.75'
L = 312.50'	L = 207.49'
E = 37.02'	E = 15.57'
C = 302.68'	C = 204.60'
C.B. = N 20° 00' 00" E	C.B. = N 31° 35' 57" W

CURVE DATA FOR ℄ CONSTRUCTION HOSPITAL ROAD

③	④
P.I. Sta. 91+65.23	P.I. Sta. 96+49.82
Δ = 60° 00' 00" (LT)	Δ = 33° 11' 52" (LT)
Dc = 18° 00' 00"	Dc = 16° 00' 00"
R = 318.31'	R = 358.10'
T = 183.78'	T = 106.75'
L = 333.33'	L = 207.49'
E = 49.24'	E = 15.57'
C = 318.31'	C = 204.60'
C.B. = N 15° 00' 00" E	C.B. = N 31° 35' 56" W

Ⓐ ℄ EX. 207 STA. 175+64.31, 0.00' RT. = ℄ EX. HOSPITAL RD. STA. 94+03.46, 0.00' RT.

Ⓑ ℄ PROP. 207 STA. 175+67.55, 0.00' RT. = ℄ PROP. HOSPITAL RD. STA. 94+33.29, 0.00' RT.

Ⓒ ℄ PROP. 207 STA. 175+68.28, 0.00' RT. = ℄ EX. HOSPITAL RD. STA. 94+22.50, 0.00' RT.

Ⓓ ℄ EX. 207 STA. 175+66.75, 0.00' RT. = ℄ PROP. HOSPITAL RD. STA. 94+14.53, 0.00' RT.

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Richard F Mathias

RICHARD F. MATHIAS, Professional Land Surveyor No. 7798

5-16-19

Date:

STATE OF OHIO SURVEYORS SEAL RICHARD F. MATHIAS S-7798 REGISTERED PROFESSIONAL SURVEYOR

RECEIVED _____, 20____

RECORDED _____, 20____

BOOK _____ PAGE _____

COUNTY RECORDER

HORIZONTAL SCALE IN FEET 0 50 100 200

PID NO. 93744

R/W DESIGNER CSW

R/W REVIEWER RFM

CENTERLINE

ROS-207-0.00

42 / 42

292 / 332

S:\ROS\93744_ROS_207_EXT\Design\RW\Sheets\93744_RC001.dgn Centerline Sheet 2 5/6/2019 11:43:35 AM steve_hart

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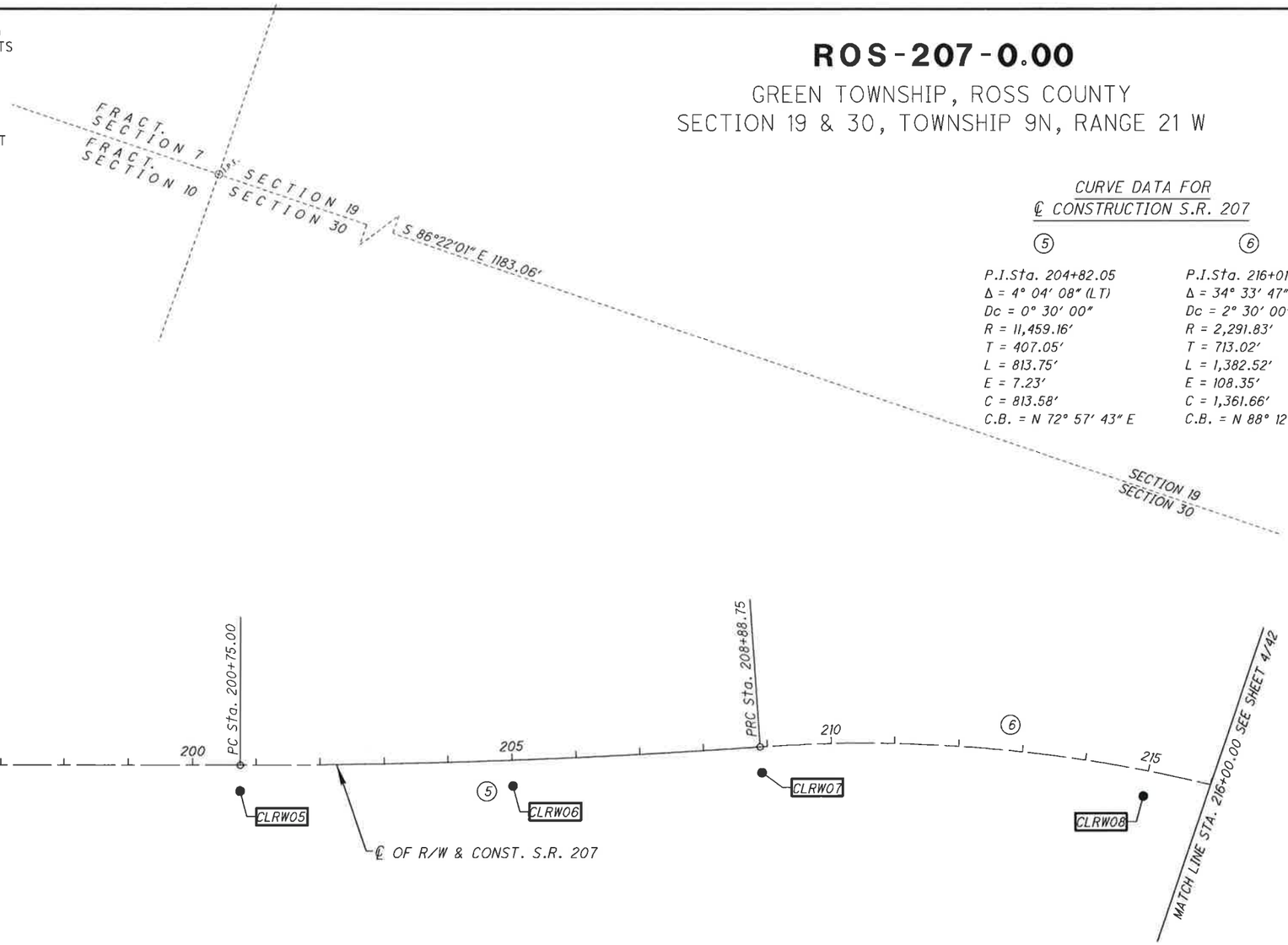
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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19 & 30, TOWNSHIP 9N, RANGE 21 W



CURVE DATA FOR
℄ CONSTRUCTION S.R. 207

⑤	⑥
P.I.Sta. 204+82.05	P.I.Sta. 216+01.77
Δ = 4° 04' 08" (LT)	Δ = 34° 33' 47" (RT)
Dc = 0° 30' 00"	Dc = 2° 30' 00"
R = 11,459.16'	R = 2,291.83'
T = 407.05'	T = 713.02'
L = 813.75'	L = 1,382.52'
E = 7.23'	E = 108.35'
C = 813.58'	C = 1,361.66'
C.B. = N 72° 57' 43" E	C.B. = N 88° 12' 32" E

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

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RICHARD F. MATHIAS, Professional Land Surveyor No. 7798

5-16-19
Date:

STATE OF OHIO
SURVEYORS SEAL
RICHARD F. MATHIAS
S-7798
REGISTERED
PROFESSIONAL SURVEYOR

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

CENTERLINE PLAT

ROS-207-0.00

3 / 42

293 / 332

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ROS-207-0.00

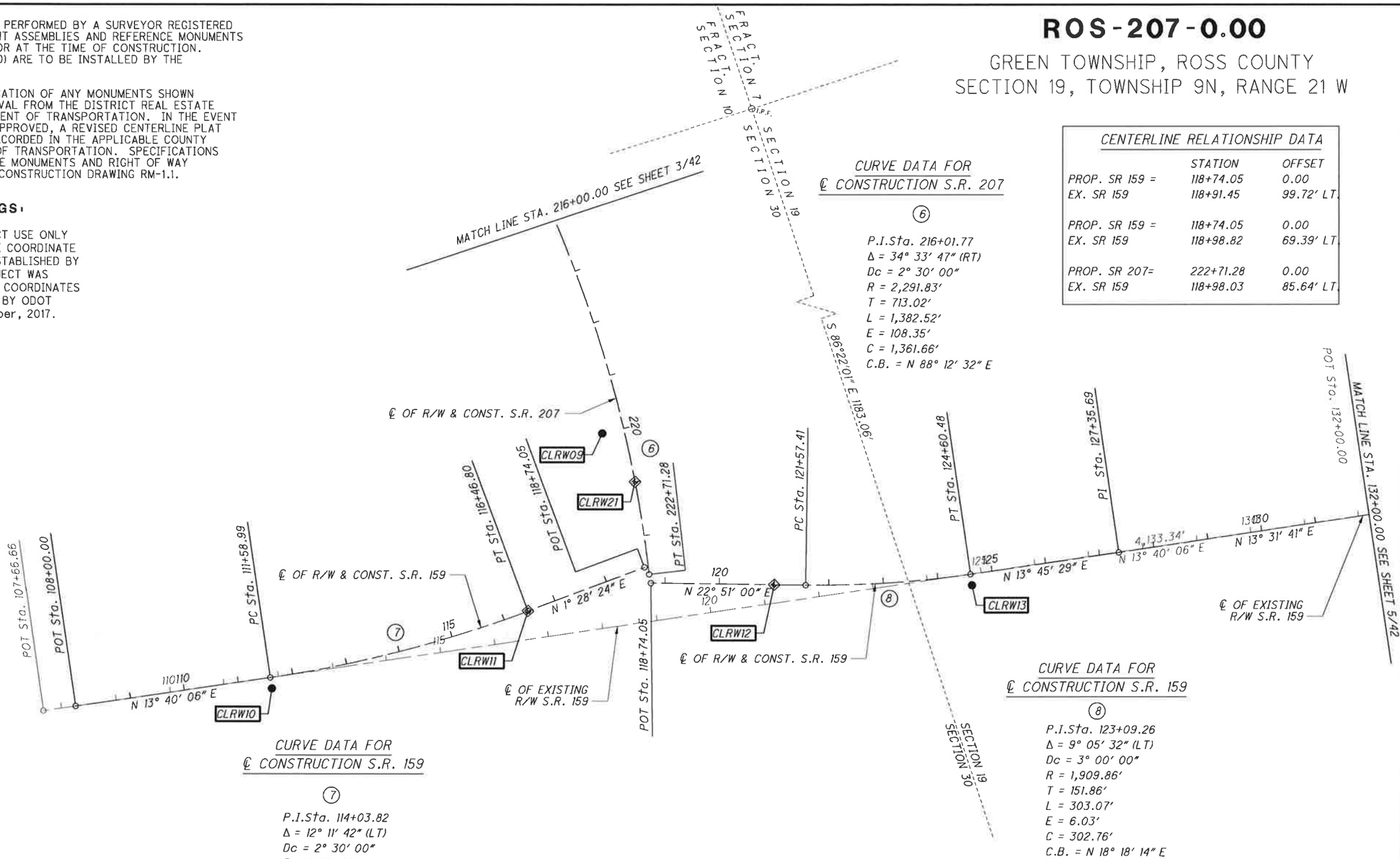
GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

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CURVE DATA FOR ℄ CONSTRUCTION S.R. 207

⑥

P.I.Sta. 216+01.77
Δ = 34° 33' 47" (RT)
Dc = 2° 30' 00"
R = 2,291.83'
T = 713.02'
L = 1,382.52'
E = 108.35'
C = 1,361.66'
C.B. = N 88° 12' 32" E

CENTERLINE RELATIONSHIP DATA

	STATION	OFFSET
PROP. SR 159 =	118+74.05	0.00
EX. SR 159	118+91.45	99.72' LT.
PROP. SR 159 =	118+74.05	0.00
EX. SR 159	118+98.82	69.39' LT.
PROP. SR 207=	222+71.28	0.00
EX. SR 159	118+98.03	85.64' LT.

CURVE DATA FOR ℄ CONSTRUCTION S.R. 159

⑦

P.I.Sta. 114+03.82
Δ = 12° 11' 42" (LT)
Dc = 2° 30' 00"
R = 2,291.83'
T = 244.83'
L = 487.81'
E = 13.04'
C = 486.89'
C.B. = N 7° 34' 15" E

CURVE DATA FOR ℄ CONSTRUCTION S.R. 159

⑧

P.I.Sta. 123+09.26
Δ = 9° 05' 32" (LT)
Dc = 3° 00' 00"
R = 1,909.86'
T = 151.86'
L = 303.07'
E = 6.03'
C = 302.76'
C.B. = N 18° 18' 14" E

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
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5-16-19
Date:

SURVEYORS SEAL
STATE OF OHIO
RICHARD F. MATHIAS
S-7798
REGISTERED PROFESSIONAL SURVEYOR

N

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

CENTERLINE PLAT

ROS-207-0.00

42
294
332

S:\ROS\93744_ROS_207.EXT\Design\RW\Sheets\93744_RC00.dgn Centerline Sheet 4 5/16/2019 11:43:39 AM steve_hart

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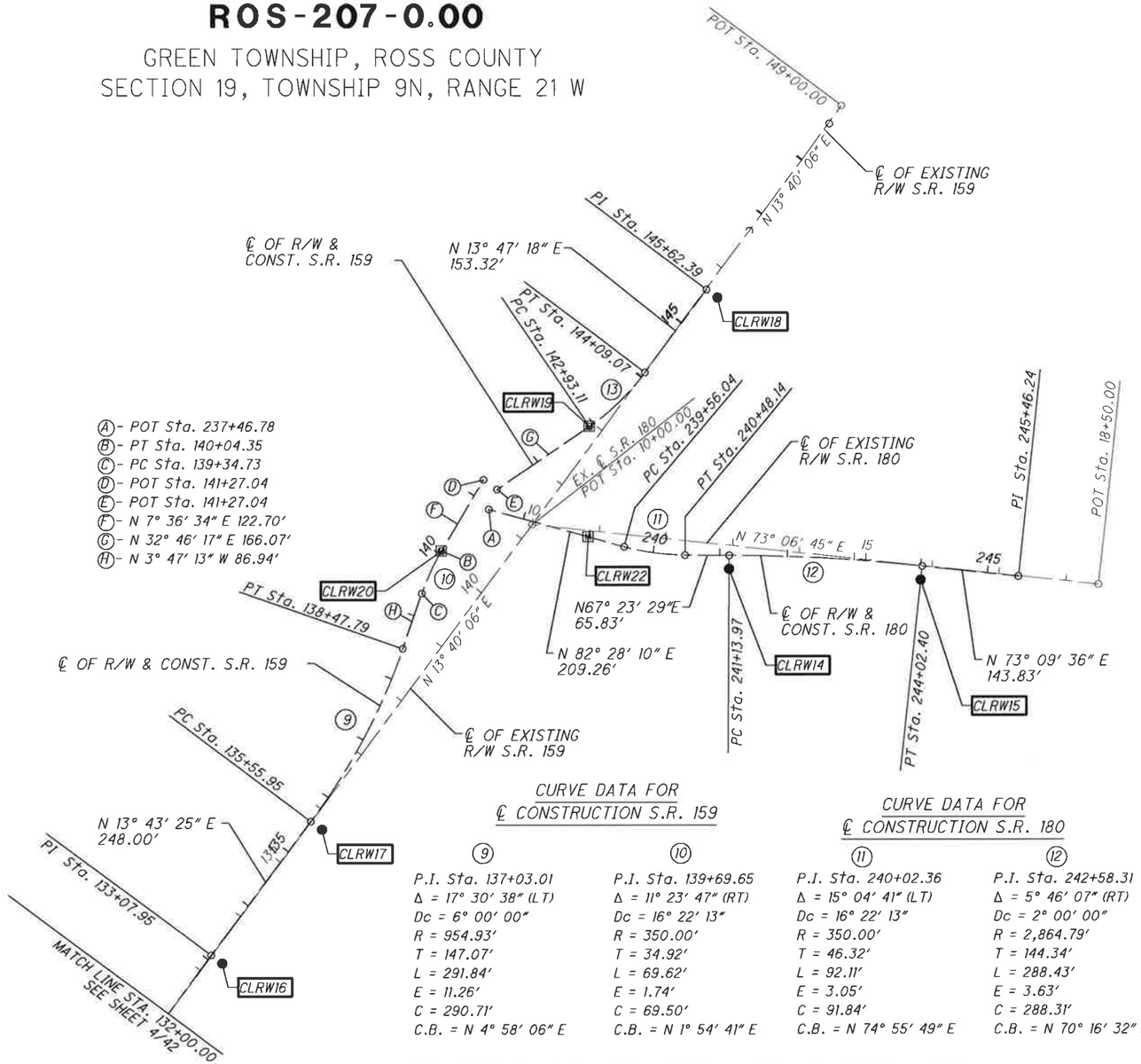
ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE FROM THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83. AS ESTABLISHED BY GPS MEASUREMENTS IN 2017. THE PROJECT WAS SURVEYED ON THE GROUND USING GRID COORDINATES ON CENTERLINE MONUMENTS PROVIDED BY ODOT FROM A SURVEY PERFORMED IN december, 2017.

NOTE:

EXISTING ℄ S.R. 159 ESTABLISHED FROM ROS-159-1.30 (1948) PLANS

ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W



CENTERLINE RELATIONSHIP DATA

	STATION	OFFSET
PROP. SR 159 =	133+07.95	0.00
EX. SR 159	133+27.78	0.68' LT.
PROP. SR 159 =	145+62.39	0.00
EX. SR 159	145+60.66	0.94' RT.
PROP. SR 180=	245+46.24	0.00
EX. SR 180	17+29.16	0.70' RT.
EX. SR 159=	141+26.00	0.00'
EX. SR 180	10+00.00	0.00'

CURVE DATA FOR ℄ CONSTRUCTION S.R. 159

(9)
P.I. Sta. 137+03.01
Δ = 17° 30' 38" (LT)
Dc = 6° 00' 00"
R = 954.93'
T = 147.07'
L = 291.84'
E = 11.26'
C = 290.71'
C.B. = N 4° 58' 06" E

(10)
P.I. Sta. 139+69.65
Δ = 11° 23' 47" (RT)
Dc = 16° 22' 13"
R = 350.00'
T = 34.92'
L = 69.62'
E = 1.74'
C = 69.50'
C.B. = N 1° 54' 41" E

CURVE DATA FOR ℄ CONSTRUCTION S.R. 180

(11)
P.I. Sta. 240+02.36
Δ = 15° 04' 41" (LT)
Dc = 16° 22' 13"
R = 350.00'
T = 46.32'
L = 92.11'
E = 3.05'
C = 91.84'
C.B. = N 74° 55' 49" E

(12)
P.I. Sta. 242+58.31
Δ = 5° 46' 07" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 144.34'
L = 288.43'
E = 3.63'
C = 288.31'
C.B. = N 70° 16' 32" E

CURVE DATA FOR ℄ CONSTRUCTION S.R. 159

(13)
P.I. Sta. 143+51.62
Δ = 18° 58' 59" (LT)
Dc = 16° 22' 13"
R = 350.00'
T = 58.52'
L = 115.96'
E = 4.86'
C = 115.43'
C.B. = N 23° 16' 47" E

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

RECEIVED _____, 20____
RECORDED _____, 20____
BOOK _____ PAGE _____
COUNTY RECORDER

I, RICHARD F. MATHIAS, P. S. have conducted a survey of the existing conditions for District 9 of the Ohio Deptartment of Transportation on December, 2017. The results of that survey are contained herein.

THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE ON NAD 83(CORS2011) DATUM BY GPS OBSERVATIONS TO THE ODOT CORS NETWORK. The Project Adjustment Factor used for this project is 1.000091278.

As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein.

All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Richard F. Mathias
RICHARD F. MATHIAS, Professional Land Surveyor No. 7798

5-16-19
Date:

STATE OF OHIO
SURVEYOR'S SEAL
RICHARD F. MATHIAS
S-7798
REGISTERED
PROFESSIONAL SURVEYOR

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

CENTERLINE PLAT

ROS-207-0.00

5 / 42

295 / 332

S:\ROS\93744_ROS_207_EXT\Design\RW\Sheets\93744_RC001.dgn Centerline Sheet 5 5/16/2019 11:43:39 AM steve_hart

ROS-207-0.00

PID: 93744

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)

BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.281132801

C/L OF RIGHT OF WAY SR 207

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
PHC01	214+58.57	1081.05	LT	518497.1740	1838908.6180	685.664	CMONS
PHC02	196+65.72	1696.12	RT	518596.2320	1836831.2600	695.602	CMONS
PHC03	164+00.00	28.00	RT	516067.6016	1834128.7986	724.080	CMONS
PHC04	173+00.80	46.91	RT	516300.3892	1834998.2004	720.131	CMONS
PHC07	222+71.28	3768.11	LT	520975.8055	1840811.8504	688.176	CMONS
PHC16	208+30.96	1906.22	RT	515370.5118	1838669.9783	682.265	CMONS

CENTERLINE OF RIGHT OF WAY & CONSTRUCTION STATE ROUTE 207

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
CLRW001	180+00.00	40.00	RT	516488.07	1835671.7700	0.000	CMONS
CLRW002	185+00.00	40.00	RT	516617.51	1836154.7300	0.000	CMONS
CLRW003	190+00.00	40.00	RT	516746.95	1836637.6800	0.000	CMONS
CLRW004	195+00.00	40.00	RT	516876.40	1837120.6400	0.000	CMONS
CLRW005	200+75.00	40.00	RT	517025.25	1837676.0400	0.000	CMONS
CLRW006	205+00.00	40.00	RT	517143.28	1838085.8400	0.000	CMONS
CLRW007	208+88.75	40.00	RT	517264.47	1838456.6200	0.000	CMONS
CLRW008	215+00.00	40.00	RT	517383.16	1839043.5400	0.000	CMONS
CLRW009	220+00.00	40.00	RT	517362.12	1839533.3900	0.000	CMONS
CLRW021	221+00.00	0.00	RT	517384.37	1839637.9300	0.000	MONBOXP

CENTERLINE OF RIGHT OF WAY & CONSTRUCTION STATE ROUTE 159

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
CLRW010	111+58.99	20.00	RT	516627.22	1839738.7400	0.000	CMONS
CLRW011	116+46.80	0.00	RT	517114.58	1839783.4600	0.000	MONBOXP
CLRW012	121+00.00	0.00	RT	517549.98	1839908.2600	0.000	MONBOXP
CLRW013	124+60.48	20.00	RT	517885.56	1840045.0600	0.000	CMONS
CLRW016	133+07.95	20.00	RT	518709.27	1840244.3800	0.000	CMONS
CLRW017	135+55.95	20.00	RT	518950.20	1840303.2100	0.000	CMONS
CLRW020	140+04.35	0.00	RT	519400.76	1840305.5300	0.000	MONBOXP
CLRW018	145+62.39	20.00	RT	519906.83	1840537.2900	0.000	CMONS
CLRW019	142+93.11	0.00	RT	519656.65	1840435.7000	0.000	MONBOXP

CENTERLINE OF RIGHT OF WAY & CONSTRUCTION STATE ROUTE 180

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
CLRW014	241+13.97	20.00	RT	519543.18	1840710.7800	0.000	CMONS
CLRW015	244+02.40	20.00	RT	519639.8	1840980.2800	0.000	CMONS
CLRW022	239+00.00	0.00	RT	519505.11	1840498.0900	0.000	MONBOXP

PROJECT ADJUSTMENT FACTOR BASED ON:

UNITLESS FACTOR = 1.000091278 State Plane Grid to Project Ground (same units)
PROJECT ADJ. FACTOR = 3.281132801 State Plane Grid (meters) to Project Ground (US Survey Feet)
ENG./METRIC CONV.= 3.28083333 US SURVEY FOOT TO METERS CONVERSION FACTOR
PROJECT Coordinates are Scaled From GRID Coordinates About The OHIO SOUTH ZONE Grid Point N=0,E=0.

PROJECT CONTROL POINTS

CENTERLINE ALIGNMENT

CENTERLINE ALIGNMENT

CENTERLINE ALIGNMENT

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STATE PLANE GRID COORDINATES

HORIZONTAL DATUM - NAD83(COR2011), OHIO SOUTH ZONE (3401) FROM CORS
VERTICAL DATUM NAVD 88 DEFINED BY GPS FROM CORS USING GEOID12A
ALL OTHER ELEVATIONS ESTABLISHED FROM LEVELING

	DESCRIPTION	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
PHC01	ODOT TYPE "A" MONUMENT (SET)	158023.8306	560449.3111	208.991	518449.8510	1838740.7816
PHC02	ODOT TYPE "A" MONUMENT (SET)	158054.0208	559816.1889	212.020	518548.8999	1836663.6132
PHC03	ODOT TYPE "A" MONUMENT (FOUND) - STATION/OFFSET FROM EX. S.R. 207	157283.3631	558992.5522	220.700	516020.5003	1833961.3985
PHC04	ODOT TYPE "A" MONUMENT (FOUND)	157354.3104	559257.5222	219.496	516253.2667	1834830.7209
PHC07	ODOT TYPE "A" MONUMENT (FOUND)	158779.2501	561029.3646	209.756	520928.2563	1840643.8403
PHC16	ODOT TYPE "A" MONUMENT (FOUND)	157070.9091	560376.5802	207.955	515323.4742	1838502.1637

HORZ. DATUM - NAD83(CORS2011), OHIO SOUTH ZONE VERT. DATUM - NAVD88

NAME	DESCRIPTION	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CLRW001	STA. 180+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157411.5104	559462.8079	0.000	516440.9304	1835504.2290
CLRW002	STA 185+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157450.9602	559610.0010	0.000	516570.3585	1835987.1450
CLRW003	STA. 190+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157490.4100	559757.1910	0.000	516699.7867	1836470.0509
CLRW004	STA. 195+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157529.8628	559904.3841	0.000	516829.2249	1836952.9668
CLRW005	PC STA. 200+75.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157575.2282	560073.6549	0.000	516978.0613	1837508.3161
CLRW006	PT STA. 205+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157611.2006	560198.5508	0.000	517096.0806	1837918.0787
CLRW007	PC STA. 208+88.75, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157648.1360	560311.5544	0.000	517217.2595	1838288.8249
CLRW008	STA. 215+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157684.3095	560490.4317	0.000	517335.9387	1838875.6913
CLRW009	STA. 220+00.00, 40.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157677.8971	560639.7246	0.000	517314.9006	1839365.4966
CLRW021	PT STA. 221+00.00, 0.00' RT.	157684.6782	560671.5856	0.000	517337.1486	1839470.0270

HORZ. DATUM - NAD83(CORS2011), OHIO SOUTH ZONE VERT. DATUM - NAVD88

NAME	DESCRIPTION	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CLRW010	PT STA. 111+58.99, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157453.9195	560702.3097	0.000	516580.0677	1839570.8278
CLRW011	PT STA. 116+46.80, 0.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157602.4536	560715.9392	0.000	517067.3832	1839615.5438
CLRW012	PT STA. 121+00.00, 0.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157735.1517	560753.9748	0.000	517502.7434	1839740.3324
CLRW013	PC STA. 124+60.48 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	157837.4273	560795.6677	0.000	517838.2928	1839877.1199
CLRW016	PI STA. 133+07.95, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	158088.4717	560856.4150	0.000	518661.9276	1840076.4217
CLRW017	PC STA. 135+55.95, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	158161.9006	560874.3448	0.000	518902.8356	1840135.2463
CLRW020	PT STA. 140+04.34, 0.00' RT.	158299.2191	560875.0519	0.000	519353.3545	1840137.5661
CLRW018	POT STA. 146+69.84, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	158453.4554	560945.6860	0.000	519859.3783	1840369.3050
CLRW019	PC STA. 142+93.11, 0.00' RT.	158377.2074	560914.7242	0.000	519609.2212	1840267.7242

HORZ. DATUM - NAD83(CORS2011), OHIO SOUTH ZONE VERT. DATUM - NAVD88

NAME	DESCRIPTION	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CLRW014	PC STA. 241+13.97, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	158342.6248	560998.5611	0.000	519495.7615	1840542.7791
CLRW015	PT STA. 244+02.40, 20.00' RT. - 3/4" X 30" REBAR WITH ALUMINUM CAP	158372.0719	561080.6973	0.000	519592.3727	1840812.2545
CLRW022	STA. 239+00.00, 0.00' RT.	158331.0221	560933.7389	0.000	519457.6950	1840330.1085

MONUMENTS TO BE SET DURING CONSTRUCTION

	ITEM 623E38500 MONUMENT ASSEMBLY	ITEM 623E40500 REFERENCE MONUMENT
		1
		1
		1
		1
		1
		1
		1
		1
	1	
		1
	1	
		1
	1	
		1
		1
	1	
TOTAL MONUMENTS - QUANTITY CARRIED TO GENERAL SUMMARY ITEM 604	6	16

FEDERAL PROJECT NO. E170943

PID NO. 93744

STATE JOB NO. 499247

R/W DESIGNER CSW

R/W REVIEWER RFW

MONUMENT TABLE

ROS-207-0.00

RECEIVED _____, 20___
RECORDED _____, 20___
BOOK _____ PAGE _____
COUNTY RECORDER

S:\ROS\93744_ROS_207_EXT\Design\RW\Sheets\93744_RC001.dgn Monument Table Sheet 6 5/16/2019 11:43:40 AM steve_hart

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.281132801

C/L OF CONSTRUCTION HOSPITAL ROAD

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
MN01	79+73.79	54.07	LT	515291.1175	1834453.6890	681.66	IPIN
MN02	81+39.28	100.84	LT	515462.5981	1834522.1932	683.41	IPID
MN03	82+39.08	143.48	LT	515569.3359	1834565.6042	684.52	IPID
MN04	83+05.22	97.91	RT	515445.4235	1834783.0640	683.40	IPID
MN05	84+75.05	182.96	LT	515764.1096	1834704.5469	692.63	IPID
MN06	88+93.47	109.54	RT	515853.1508	1835207.2408	683.94	IPID
MN07	87+99.13	379.49	LT	516132.2402	1834794.7421	694.86	IPID
MN08	90+56.19	102.43	RT	515997.7720	1835325.4725	683.53	IPID
MN09	90+82.17	121.49	LT	516128.9429	1835142.4858	699.59	IPID
MN10	92+08.50	87.95	RT	516188.6364	1835372.1198	689.71	IPID
MN11	92+85.49	126.54	LT	516250.3010	1835155.9271	701.61	IPID
MN12	95+61.41	94.87	RT	516567.5930	1835300.3523	706.29	IPID
MN13	96+12.33	77.00	LT	516551.6905	1835121.8710	704.89	IPID
MN14	96+61.64	81.03	RT	516673.4876	1835233.5782	707.65	IPID
MN15	97+61.25	70.02	RT	516754.3770	1835146.7892	708.10	IPID
MN16	98+30.93	70.16	LT	516696.3237	1835001.4100	707.47	IPID

C/L OF RIGHT OF WAY 207

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
MN25	230+92.93	418.15	LT	519706.3944	1839562.1392	672.78	IPID
MN26	235+65.74	229.80	LT	519778.4830	1840140.8130	662.29	IPID

C/L OF RIGHT OF WAY US 159

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
MN27	132+63.47	450.96	LT	518776.2594	1839776.0878	671.89	IPID
MN28	132+70.42	29.19	LT	518684.3640	1840187.7843	676.45	IPID
MN29	135+36.21	25.46	RT	518929.7214	1840303.8359	667.88	IPID
MN30	135+85.52	126.49	LT	519009.9602	1840166.6047	667.18	IPID
MN31	136+57.90	31.12	RT	519050.9666	1840333.4896	667.28	IPID
MN32	136+81.85	34.62	RT	519075.1338	1840339.9312	666.95	IPID
MN33	138+21.76	64.64	RT	519221.0720	1840374.9134	666.10	IPID
MN48	144+00.38	65.62	LT	519771.4974	1840415.8181	676.01	IPID
MN49	146+83.81	46.52	LT	520040.5019	1840500.7649	655.29	IPID
MN50	147+19.65	149.41	RT	520029.9220	1840699.6670	665.66	IPID
MN51	147+21.14	178.83	RT	520024.5295	1840728.7157	664.80	IPID
MN52	147+40.67	30.68	RT	520077.9073	1840589.0470	666.23	IPID

C/L OF RIGHT OF WAY SR 180

NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE
MN34	238+33.04	38.75	RT	519457.9246	1840436.7871	664.16	IPID
MN35	238+37.57	39.74	RT	519457.5387	1840441.4055	664.07	IPID
MN36	238+50.51	29.08	RT	519469.7948	1840452.8385	664.51	IPID
MN37	240+28.02	332.57	RT	519215.2856	1840733.5301	664.62	IPID
MN38	240+54.51	335.92	RT	519228.6758	1840777.3391	664.65	IPID
MN39	243+07.66	28.17	RT	519603.3219	1840893.3267	665.43	IPID
MN40	244+08.57	29.54	RT	519632.4615	1840988.9535	665.61	IPID
MN41	244+28.53	29.61	RT	519638.1730	1841008.0692	665.61	IPID
MN42	245+28.66	29.37	RT	519667.4117	1841103.8409	666.61	IPID
MN43	245+68.60	29.74	RT	519678.7757	1841142.2854	667.86	IPID
MN44	245+88.89	29.06	RT	519685.4003	1841161.4752	667.91	IPID
MN45	245+93.60	224.75	RT	519499.7614	1841223.5739	671.16	IPID
MN46	246+13.23	222.37	RT	519507.8151	1841241.6285	670.44	IPID
MN47	246+40.53	20.46	LT	519747.9211	1841196.2454	667.64	IPID

EXISTING BOUNDARY MONUMENTS HOSPITAL ROAD

NAME	DESCRIPTION
MN01	5/8" REBAR
MN02	5/8" REBAR
MN03	5/8" REBAR
MN04	5/8" REBAR
MN05	5/8" REBAR
MN06	5/8" REBAR
MN07	5/8" REBAR
MN08	5/8" REBAR
MN09	5/8" REBAR
MN10	5/8" REBAR
MN11	5/8" REBAR
MN12	5/8" REBAR
MN13	5/8" REBAR
MN14	5/8" REBAR
MN15	5/8" REBAR
MN16	5/8" REBAR

EXISTING BOUNDARY MONUMENTS S.R. 207

NAME	DESCRIPTION
MN25	5/8" REBAR
MN26	5/8" REBAR

EXISTING BOUNDARY MONUMENTS S.R. 159

NAME	DESCRIPTION
MN27	5/8" REBAR
MN28	5/8" REBAR
MN29	5/8" REBAR
MN30	5/8" REBAR
MN31	5/8" REBAR
MN32	5/8" REBAR
MN33	5/8" REBAR
MN48	5/8" REBAR
MN49	5/8" REBAR
MN50	5/8" REBAR
MN51	5/8" REBAR
MN52	5/8" REBAR

EXISTING BOUNDARY MONUMENTS S.R. 180

NAME	DESCRIPTION
MN34	5/8" REBAR
MN35	5/8" REBAR
MN36	5/8" REBAR
MN37	5/8" REBAR
MN38	5/8" REBAR
MN39	5/8" REBAR
MN40	5/8" REBAR
MN41	5/8" REBAR
MN42	5/8" REBAR
MN43	5/8" REBAR
MN44	5/8" REBAR
MN45	5/8" REBAR
MN46	5/8" REBAR
MN47	5/8" REBAR

STATE PLANE GRID COORDINATES

HORIZONTAL DATUM - NAD83(COR2011), OHIO SOUTH ZONE (3401) FROM CORS
VERTICAL DATUM NAVD 88 DEFINED BY GPS FROM CORS USING GEOID12A

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN01	157046.7118	559091.5700	207.770	515244.0871	1834286.2592
MN02	157098.9745	559112.4482	208.304	515415.5521	1834354.7572
MN03	157131.5052	559125.6787	208.642	515522.2801	1834398.1642
MN04	157093.7401	559191.9545	208.301	515398.3790	1834615.6041
MN05	157190.8670	559168.0247	211.114	515717.0360	1834537.0942
MN06	157218.0043	559321.2321	208.465	515806.0691	1835039.7422
MN07	157303.0632	559195.5137	211.794	516085.1330	1834627.2812
MN08	157262.0809	559357.2659	208.340	515950.6771	1835157.9631
MN09	157302.0582	559301.4965	213.235	516081.8360	1834974.9931
MN10	157320.2512	559371.4827	210.224	516141.5241	1835204.6062
MN11	157339.0449	559305.5931	213.851	516203.1831	1834988.4332
MN12	157435.7468	559349.6099	215.278	516520.4461	1835132.8452
MN13	157430.9002	559295.2137	214.851	516504.5451	1834954.3802
MN14	157468.0206	559329.2590	215.692	516626.3310	1835066.0772
MN15	157492.6735	559302.8081	215.829	516707.2131	1834979.2961
MN16	157474.9805	559258.5004	215.637	516649.1651	1834833.9302

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN25	158392.3681	560648.4866	205.064	519658.9610	1839394.2432
MN26	158414.3387	560824.8506	201.866	519731.0430	1839972.8641

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN27	158108.8883	560713.6923	204.792	518728.9109	1839608.1722
MN28	158080.8810	560839.1662	206.182	518637.0239	1840019.8312
MN29	158155.6593	560874.5356	203.570	518882.3589	1840135.8722
MN30	158180.1139	560832.7112	203.357	518962.5904	1839998.6535
MN31	158192.6115	560883.5732	203.387	519003.5930	1840165.5232
MN32	158199.9770	560885.5365	203.287	519027.7580	1840171.9642
MN33	158244.4550	560896.1981	203.028	519173.6829	1840206.9432
MN48	158412.2097	560908.6647	206.048	519724.0581	1840247.8441
MN49	158494.1950	560934.5542	199.733	519993.0380	1840332.7832
MN50	158490.9705	560995.1741	202.894	519982.4591	1840531.6671
MN51	158489.3270	561004.0274	202.631	519977.0671	1840560.7132
MN52	158505.5951	560961.4602	203.067	520030.4400	1840421.0572

NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN34	158316.6413	560915.0555	202.436	519410.5139	1840268.8112
MN35	158316.5237	560916.4631	202.409	519410.1280	1840273.4292
MN36	158320.2590	560919.9475	202.543	519422.3830	1840284.8612
MN37	158242.6915	561005.4947	202.577	519167.8970	1840565.5271
MN38	158246.7725	561018.8465	202.586	519181.2860	1840609.3321
MN39	158360.9544	561054.1963	202.823	519555.8979	1840725.3092
MN40	158369.8354	561083.3408	202.878	519585.0349	1840820.9272
MN41	158371.5761	561089.1667	202.878	519590.7458	1840840.0412
MN42	158380.4872	561118.3553	203.183	519619.9819	1840935.8041
MN43	158383.9507	561130.0722	203.564	519631.3448	1840974.2451
MN44	158385.9697	561135.9207	203.579	519637.9688	1840993.4332
MN45	158329.3920	561154.8467	204.570	519452.3469	1841055.5262
MN46	158331.8465	561160.3493	204.351	519460.3998	1841073.5792
MN47	158405.0243	561146.5177	203.497	519700.4839	1841028.2002

FEDERAL PROJECT NO. E170943
PID NO. 93744
STATE JOB NO. 499247
R/W DESIGNER CSW
R/W REVIEWER RFW

MONUMENT TABLE

ROS-207-0.00

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COUNTY RECORDER

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MONUMENT TABLE

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF : 3.281132801

PROPOSED RIGHT OF WAY MONUMENTS

STATE PLANE GRID COORDINATES

HORIZONTAL DATUM - NAD83(COR2011), OHIO SOUTH ZONE (3401) FROM CORS
VERTICAL DATUM NAVD 88 DEFINED BY GPS FROM CORS USING GEOID12A

MONUMENTS TO BE RESET AFTER CONSTRUCTION

ALONG STATE ROUTE 207

	C/L OF RIGHT OF WAY													ITEM 623E40520	ITEM 623E40520
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION	NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")	BOUNDARY PIN (TYPE "B")
PRW006	176+25.73	251.75	LT	516672.9882	1835234.7359	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW006	157467.8684	559329.6118	0.000	516625.8317	1835067.2348		
PRW007	179+36.87	135.12	LT	516640.8771	1835565.4589	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW007	157458.0818	559430.4072	0.000	516593.7235	1835397.9276		
PRW008	183+25.00	151.03	LT	516756.7220	1835936.2417	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW008	157493.3882	559543.4117	0.000	516709.5578	1835768.6766		
PRW009	185+49.31	100.00	LT	516765.5058	1836166.1140	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW009	157496.0653	559613.4705	0.000	516718.3408	1835998.5279		
PRW010	200.75.00	100.00	LT	517160.4815	1837639.7917	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW010	157616.4431	560062.6074	0.000	517113.2805	1837472.0711		
PRW011	200+75.00	80.00	LT	517141.1633	1837644.9693	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW011	157610.5555	560064.1854	0.000	517093.9640	1837477.2482		
PRW012	208+88.75	80.00	LT	517377.8853	1838417.4107	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW012	157682.7019	560299.6045	0.000	517330.6644	1838249.6191		
PRW013	209+61.35	80.00	LT	517401.3066	1838488.7934	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW013	157689.8401	560321.3600	0.000	517354.0836	1838320.9953		
PRW014	209+63.54	222.48	LT	517538.0852	1838448.8190	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW014	157731.5265	560309.1769	0.000	517490.8497	1838281.0246		
PRW015	221+00.00	78.45	LT	517461.3218	1839653.1833	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW015	157708.1311	560676.2344	0.000	517414.0933	1839485.2789		
PRW016	221+87.19	121.43	LT	517483.9308	1839751.2405	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW016	157715.0217	560706.1195	0.000	517436.7003	1839583.3272		
PRW017	221+89.90	146.21	RT	517222.9771	1839691.7333	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW017	157635.4901	560687.9834	0.000	517175.7704	1839523.8254		
PRW018	221+00.00	80.00	RT	517305.8971	1839622.3842	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW018	157660.7618	560666.8476	0.000	517258.6828	1839454.4827		
PRW019	208.88.75	80.00	RT	517226.6686	1838469.6934	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW019	157636.6152	560315.5389	0.000	517179.4615	1838301.8971		
PRW020	200+75.00	80.00	RT	516986.6179	1837686.3906	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW020	157563.4542	560076.8095	0.000	516939.4328	1837518.6658		
PRW021	200.75.00	100.00	RT	516967.2997	1837691.5683	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW021	157557.5666	560078.3875	0.000	516920.1163	1837523.8430		
PRW022	185+49.31	100.00	RT	516572.3241	1836217.8907	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW022	157437.1888	559629.2507	0.000	516525.1768	1836050.2999		
PRW023	177+67.93	132.02	RT	516339.1076	1835471.4386	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW023	157366.1107	559401.7524	0.000	516291.9816	1835303.9159		
PRW024	175+91.28	452.49	RT	515983.8299	1835383.7774	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW024	157257.8317	559375.0356	0.000	515936.7363	1835216.2627		
PRW025	174+03.57	557.82	RT	515833.5018	1835229.7356	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW025	157212.0158	559328.0879	0.000	515786.4219	1835062.2350		
PRW026	173+89.40	533.27	RT	515853.5428	1835209.6947	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW026	157218.1238	559321.9800	0.000	515806.4611	1835042.1959		

ALONG STATE ROUTE 159

	C/L OF RIGHT OF WAY													ITEM 623E40520	ITEM 623E40520
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION	NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")	BOUNDARY PIN (TYPE "B")
PRW030	112+75.16	42.11	LT	516753.3300	1839702.5200	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW030	157492.3544	560691.2709	0.000	516706.1661	1839534.6111		
PRW031	112+78.39	28.15	RT	516743.4200	1839772.1500	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW031	157489.3341	560712.4922	0.000	516696.2571	1839604.2348		
PRW032	123+26.75	75.61	LT	517784.7200	1839917.3000	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW032	157806.6940	560756.7300	0.000	517737.4620	1839749.3715		
PRW033	123+52.42	27.98	RT	517777.9700	1840023.7400	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW033	157804.6368	560789.1700	0.000	517730.7126	1839855.8018		
PRW034	136+91.39	35.18	LT	519091.7800	1840271.4700	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW034	158205.0504	560864.6713	0.000	519044.4027	1840103.5092		
PRW035	136+81.94	33.91	RT	519075.3000	1840339.2400	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW035	158200.0277	560885.3258	0.000	519027.9242	1840171.2730		
PRW036	138+62.97	-119.45	LT	519251.8100	1840188.7600	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW036	158253.8231	560839.4636	0.000	519204.4181	1840020.8068		
PRW037	140+49.41	115.06	RT	519430.2000	1840425.5500	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW037	158308.1916	560911.6307	0.000	519382.7918	1840257.5752		
PRW038	141+28.88	171.28	LT	519611.2800	1840202.7800	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW038	158363.3798	560843.7365	0.000	519563.8553	1840034.8255		
PRW039	142+67.15	71.06	RT	519596.3700	1840481.4000	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW039	158358.8357	560928.6523	0.000	519548.9467	1840313.4201		
PRW040	144+03.07	48.92	LT	519769.3500	1840432.5400	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW040	158411.5553	560913.7611	0.000	519721.9109	1840264.5645		
PRW041	143+57.98	43.68	RT	519697.6700	1840506.0300	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW041	158389.7091	560936.1588	0.000	519650.2374	1840338.0478		
PRW042	144+66.54	54.26	RT	519805.5800	1840547.7100	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW042	158422.5972	560948.8618	0.000	519758.1376	1840379.7240		
PRW043	144+73.61	54.24	RT	519812.4500	1840549.3800	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW043	158424.6910	560949.3707	0.000	519765.0069	1840381.3939		
PRW044	143+31.59	89.02	LT	519729.7800	1840375.0200	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW044	158399.4954	560896.2306	0.000	519682.3445	1840207.0498		
PRW045	143+87.26	98.02	LT	519770.9300	1840381.9100	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW045	158412.0368	560898.3304	0.000	519723.4907	1840213.9391		
PRW046	144+26.62	50.66	LT	519791.8100	1840436.3000	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW046	158418.4005	560914.9070	0.000	519744.3688	1840268.3242		
PRW047	144+43.35	75.70	LT	519814.0300	1840415.9800	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW047	158425.1725	560908.7141	0.000	519766.5868	1840248.0060		
PRW048	144+54.28	103.06	LT	519831.1700	1840392.0000	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW048	158430.3963	560901.4056	0.000	519783.7252	1840224.0282		
PRW049	144+60.41	75.73	LT	519830.6000	1840420.0100	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW049	158430.2226	560909.9423	0.000	519783.1553	1840252.0357		

ALONG STATE ROUTE 180

	C/L OF RIGHT OF WAY													ITEM 623E40520	ITEM 623E40520
NAME	STATION	OFFSET (ft)	RT/LT	NORTH (ft)	EAST (ft)	ELEVATION (ft)	FEATURE	DESCRIPTION	NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")	BOUNDARY PIN (TYPE "B")
PRW060	239+98.76	52.90	LT	519571.8400	1840582.2800	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW060	158351.3596	560959.3978	0.000	519524.4189	1840414.2909		
PRW061	238+55.12	58.69	RT	519441.0500	1840461.2900	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW061	158311.4984	560922.5233	0.000	519393.6408	1840293.3119		
PRW062	240+63.14	50.17	LT	519588.4100	1840636.8900	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW062	158356.4097	560976.0414	0.000	519540.9874	1840468.8959		
PRW063	240+85.89	22.46	RT	519530.1200	1840685.8100	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW063	158338.6445	560990.9509	0.000	519482.7027	1840517.8114		
PRW064	240+83.90	42.36	RT	519510.9700	1840691.6200	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW064	158332.8081	560992.7216	0.000	519463.5545	1840523.6209		
PRW065	241+97.00	22.28	RT	519571.6300	1840788.1600	0.000	IPINS	3/4" X 30" REBAR WITH A 2" ALUM. CAP MARKED "ODOT R/W - DISTRICT 9"	PRW065	158351.2956	561022.1444	0.000	519524.2089	1840620.1521		

FEDERAL PROJECT NO.	E170943
PID NO.	93744
STATE JOB NO.	499247
R/W DESIGNER	CSW
R/W REVIEWER	RFW

ROS-207-0.00

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COUNTY RECORDER

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GREEN TOWNSHIP, ROSS COUNTY

FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W

SECTION 30, TOWNSHIP 9N, RANGE 21 W

OWNERSHIP NAME AND NUMBER

40 - CLOVERLEAF DEVELOPMENT, INC. A(P.N. 14-01-10057.000,
B(P.N. 14-01-10005.000, C(P.N. 14-01-10006.000
41 - STATE OF OHIO - A - P.N. 14-01-10081.000, B - P.N. 14-01-10080.000
42 - STATE OF OHIO P.N. 14-01-10099.000
43 - BOARD OF COMMISSIONERS OF ROSS COUNTY P.N. 14-01-10110.000
44 - MICHAEL W. ARLEDGE - P.N. 14-01-10004.000
45 - STEPHEN E. COOPER & PATRICIA J. COOPER - P.N. 14-01-10046.000
46 - THOMAS F. TOOTLE & ROBERT M. TOOTLE - P.N. 14-01-09015.000

EASEMENTS

1 - 16.5' WIDE UTILITY EASEMENT O.R. 291, PG. 1932
2 - NOT USED
3 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 284, PG. 1611
4 - NOT USED
5 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 282, PG. 708
6 - 100' AEP OHIO TRANSMISSION COMPANY, INC. EASEMENT
O.R.476, PG. 2123

INSET NOT TO SCALE

37.329 AC. NORTH SIDE RESIDUAL

INSET NOT TO SCALE

137.913 AC. SOUTH SIDE RESIDUAL

BEGIN ACQUISITION STA. 176+25.73 ℄ S.R. 207

FRACTIONAL SECTION 10 - RNG. 22 W
SECTION 30 - RNG. 21 W

℄ PROPOSED R/W & CONSTRUCTION S.R. 207

MATCH LINE STA. 189+00.00 SEE SHEET 10/42

END ACQUISITION STA. 93+27.15 ℄ EXISTING R/W HOSPITAL ROAD

℄ CONSTRUCTION HOSPITAL ROAD

℄ OF EXISTING R/W HOSPITAL ROAD

BEGIN ACQUISITION STA. 83+10.00 ℄ OF EXISTING R/W HOSPITAL ROAD

INSET NOT TO SCALE

9.882 ACRES RESIDUAL

PC Sta. 99+64.36
PT Sta. 97+38.99
PC Sta. 95+31.50
PT Sta. 94+21.74
PT Sta. 92+47.00
PC Sta. 89+34.12
PT Sta. 73+36.87
PT Sta. 72+64.22
PT Sta. 72+56.74
PC Sta. 70+25.49
PT Std. 65+14.32
PT Sta. 82+03.22
PT Sta. 77+07.26
PT Sta. 180+00.00

N 75° 00' 00" E
N 52° 26' 22" E 975
N 12° 01' 25" W 75
S 5° 00' 00" W
S 40° 00' 00" W
R=25°30'00" E
N 45° 00' 00" E

REV. BY	DATE	DESCRIPTION
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DATE COMPLETED		

HORIZONTAL SCALE IN FEET 0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFW

PROPERTY MAP

ROS-207-0.00

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19 & 30, TOWNSHIP 9N, RANGE 21 W

OWNERSHIP NAME AND NUMBER

46 - THOMAS F. TOOTLE & ROBERT M. TOOTLE - P.N. 14-01-09015.000

47 - HERRON FARMS LIMITED LIABILITY COMPANY -
A) P.N. 14-01-08023.000
B) P.N. 14-01-08024.000
C) P.N. 14-01-08090.000

SECTION 19
SECTION 30

47

46

INSET NOT TO SCALE

5.179 AC. RESIDUAL

443.755AC. RESIDUAL

℄ PROPOSED R/W & CONSTRUCTION S.R. 207

LA-R/W

Ex U

TMP

MATCH LINE STA. 189+00.00 SEE SHEET 9/42

MATCH LINE STA. 218+00.00 SEE SHEET 11/42

190 195 200 205 210 215

37.329 AC. NORTH SIDE RESIDUAL

INSET NOT TO SCALE

137.913 AC. SOUTH SIDE RESIDUAL

EX. DRIVE

AEP TRANSMISSION LINE EASEMENT VOL. 8, PG. 701

100.0'

REV. BY	DATE	DESCRIPTION
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DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

PROPERTY MAP

ROS-207-0.00

10 / 42

300
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
℄ SECTION 19, TWP. 9N, RANGE 21 W

AEP TRANSMISSION LINE EASEMENT VOL. 8, PG. 701
100.0'
Ex U

46
THOMAS F. TOOTLE & ROBERT M. TOOTLE
P.N. 14-01-09015.000

37.329 AC. NORTH SIDE RESIDUAL
INSET NOT TO SCALE
137.913 AC. SOUTH SIDE RESIDUAL

END ACQUISITION STA. 221+00.00 ℄ S.R. 207

MATCH LINE STA. 218+00.00 SEE SHEET 10/42

℄ PROPOSED R/W & CONSTRUCTION S.R. 207

443.755 AC. RESIDUAL
INSET NOT TO SCALE
5.179 AC. RESIDUAL

47
HERRON FARMS LIMITED LIABILITY COMPANY
A) P.N. 14-01-08023.000
B) P.N. 14-01-08024.000
C) P.N. 14-01-08090.000

SECTION 19
SECTION 30

POT Sta. 107+66.88

LA-R/W
TMP
Ex SH
Ex U
115
120
125

BEGIN ACQUISTION STA. 109+00.00 ℄ S.R. 159

75
BMMT REAL ESTATE LLC
A) P.N. 14-01-09009.000
B) P.N. 14-01-09263.000

74
LAVINA LOUISE FULTON
P.N. 14-01-09010.000

76
RAINBOW'S END FARMS, LLC
AN OHIO LIMITED LIABILITY COMPANY
A) P.N. 14-01-09011.000
B) P.N. 14-01-09012.000
C) P.N. 14-01-09013.000

52
JOHN J. MOTES & LAVERSA J. MOTES, TRUSTEES
P.N. 14-01-09014.000

SUSPEND ACQUISTION STA. 127+00.00 ℄ S.R. 159
MATCH LINE STA. 127+00.00 SEE SHEET12/42

INSET NOT TO SCALE

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

REV. BY	DATE	DESCRIPTION
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DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

PROPERTY MAP

ROS-207-0.00

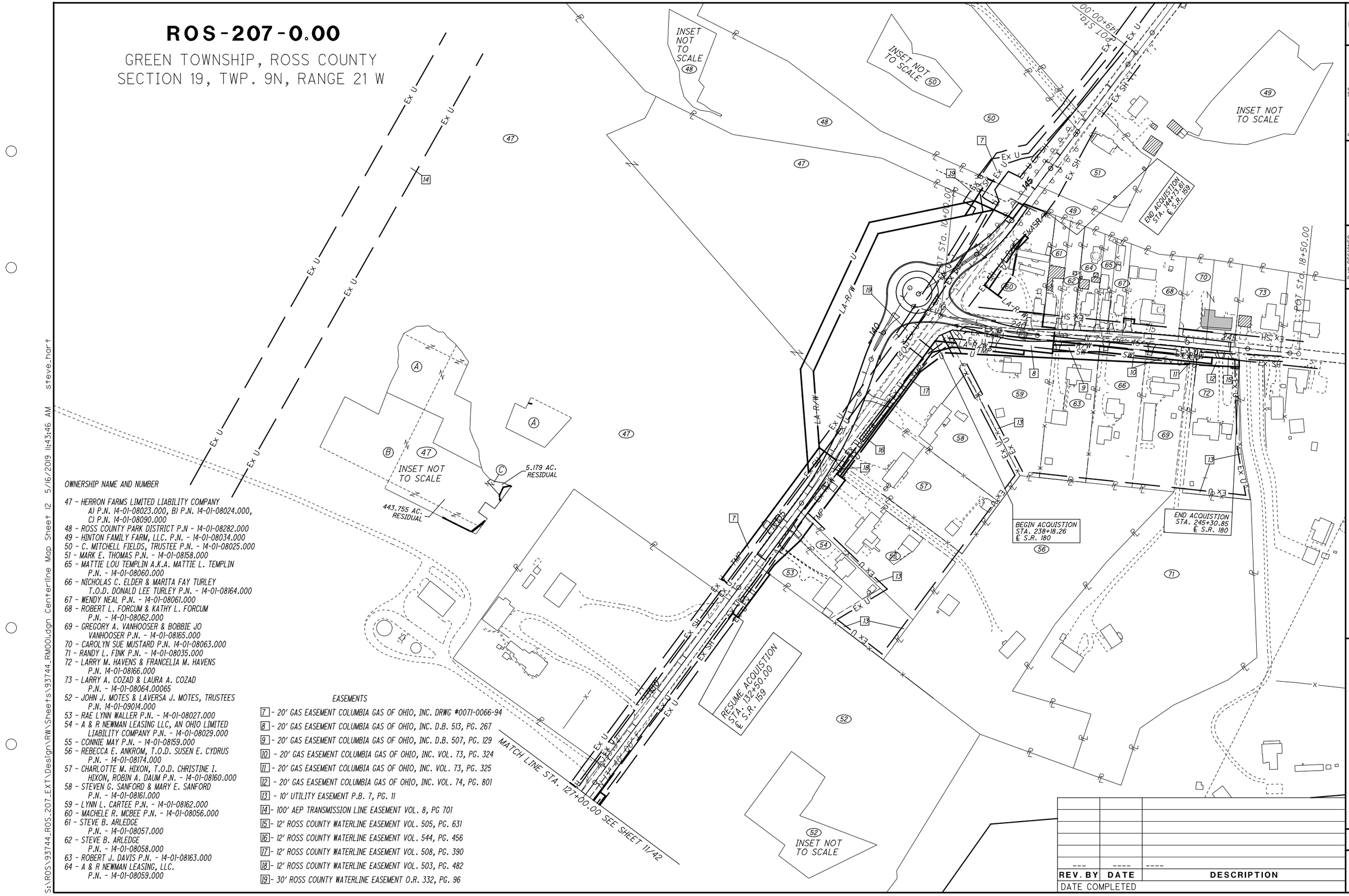
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GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TWP. 9N, RANGE 21 W



OWNERSHIP NAME AND NUMBER

47 - HERRON FARMS LIMITED LIABILITY COMPANY
A) P.N. 14-01-08023.000, B) P.N. 14-01-08024.000,
C) P.N. 14-01-08090.000
48 - ROSS COUNTY PARK DISTRICT P.N - 14-01-08282.000
49 - HINTON FAMILY FARM, LLC. P.N. - 14-01-08034.000
50 - C. MITCHELL FIELDS, TRUSTEE P.N. - 14-01-08025.000
51 - MARK E. THOMAS P.N. - 14-01-08158.000
65 - MATTIE LOU TEMPLIN A.K.A. MATTIE L. TEMPLIN
P.N. - 14-01-08060.000
66 - NICHOLAS C. ELDER & MARITA FAY TURLEY
T.O.D. DONALD LEE TURLEY P.N. - 14-01-08164.000
67 - WENDY NEAL P.N. - 14-01-08061.000
68 - ROBERT L. FORCUM & KATHY L. FORCUM
P.N. - 14-01-08062.000
69 - GREGORY A. VANHOOSER & BOBBIE JO
VANHOOSER P.N. - 14-01-08165.000
70 - CAROLYN SUE MUSTARD P.N. 14-01-08063.000
71 - RANDY L. FINK P.N. - 14-01-08035.000
72 - LARRY M. HAVENS & FRANCELIA M. HAVENS
P.N. 14-01-08166.000
73 - LARRY A. COZAD & LAURA A. COZAD
P.N. - 14-01-08064.00065
52 - JOHN J. MOTES & LAVERSA J. MOTES, TRUSTEES
P.N. 14-01-09014.000
53 - RAE LYNN WALLER P.N. - 14-01-08027.000
54 - A & R NEWMAN LEASING LLC, AN OHIO LIMITED
LIABILITY COMPANY P.N. - 14-01-08029.000
55 - CONNIE MAY P.N. - 14-01-08159.000
56 - REBECCA E. ANKROM, T.O.D. SUSEN E. CYDRUS
P.N. - 14-01-08174.000
57 - CHARLOTTE M. HIXON, T.O.D. CHRISTINE I.
HIXON, ROBIN A. DAUM P.N. - 14-01-08160.000
58 - STEVEN G. SANFORD & MARY E. SANFORD
P.N. - 14-01-08161.000
59 - LYNN L. CARTEE P.N. - 14-01-08162.000
60 - MACHELE R. MCBEE P.N. - 14-01-08056.000
61 - STEVE B. ARLEDGE
P.N. - 14-01-08057.000
62 - STEVE B. ARLEDGE
P.N. - 14-01-08058.000
63 - ROBERT J. DAVIS P.N. - 14-01-08163.000
64 - A & R NEWMAN LEASING, LLC.
P.N. - 14-01-08059.000

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94
8 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. D.B. 513, PG. 267
9 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. D.B. 507, PG. 129
10 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 73, PG. 324
11 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 73, PG. 325
12 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 74, PG. 801
13 - 10' UTILITY EASEMENT P.B. 7, PG. 11
14 - 100' AEP TRANSMISSION LINE EASEMENT VOL. 8, PG 701
15 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 505, PG. 631
16 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 544, PG. 456
17 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 508, PG. 390
18 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 503, PG. 482
19 - 30' ROSS COUNTY WATERLINE EASEMENT O.R. 332, PG. 96

REV. BY	DATE	DESCRIPTION
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DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

PROPERTY MAP

ROS-207-0.00

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TOTAL NUMBER OF :

24 OWNERSHIPS 0 TOTAL TAKES

54 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

(d) DEED ACRES
(c) CALCULATED ACRES
* DENOTES RIGHT OF WAY ENCROACHMENT

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
40	CLOVERLEAF DEVELOPMENT, INC.	9	O.R. 361, PG. 2112	140110057000	2.015	0.000	0.000	0.000	0.000				FEDERAL	NO TAKE		
			O.R. 234, PG. 2671	140110005000	29.966	0.000	0.000	0.000	0.000							
				140110006000	56.571	0.000	0.000	0.000	0.000							
41	STATE OF OHIO	9,13,15,16	O.R. 338, PG. 500	140110080000	1.872	0.000	0.000	0.000	0.000					NO TAKE		
				140110081000	2.939	0.000	0.000	0.000	0.000							
42	STATE OF OHIO	9	O.R. 364, PG. 423	140110099000	0.5424	0.000	0.000	0.000	0.000					NO TAKE		
43	BOARD OF COMMISSIONERS OF ROSS COUNTY	9	O.R. 429, PG. 2558	140110110000	0.8916	0.000	0.000	0.000	0.000					NO TAKE		
44-WD	MICHAEL W. ARLEDGE	9,15-18	O.R. 494, PG. 16	140110004000	53.986	0.000	0.237	0.000	0.237					SEVERANCE ACREAGES- (c) TRACT AREA 13.609 AC. -		
44-WL		9,14,15,18		140110004000		0.000	3.489	0.000	3.489					9.883 SOUTH RESIDUE		
	TOTAL	16,17,19			53.986	0.000	3.726	0.000	3.726			50.260				
45	STEPHEN E. COOPER & PATRICIA J. COOPER	9,16,19,20	VOL. 547, PG. 652	140110046000	29.377	0.000	0.000	0.000	0.000					NO TAKE		
46-WL	THOMAS F. TOOTLE & ROBERT M. TOOTLE	9-11,20-29	O.R. 360, PG. 560	140109015000	195.900	1.343	19.791	0.476	19.315		37.329	137.913		SEVERANCE ACREAGES- (c) TRACT AREA 195.900 AC. -		
														(c) 37.329 AC. NORTH RESIDUE, 137.913 AC. SOUTH RESIDUE		
46-U		11,27-29				0.000	0.425	0.000	0.425							
46-T1		10,25				0.000	0.018	0.000	0.018					TO CONSTRUCT DRIVE & COMPLETE GRADING		
46-T2		10,25				0.000	0.018	0.000	0.018					TO CONSTRUCT DRIVE & COMPLETE GRADING		
46-T3		11,29				0.000	0.127	0.000	0.127					TO CONSTRUCT DRIVE & COMPLETE GRADING		
47	HERRON FARMS LIMITED LIABILITY COMPANY	12	O.R. 192, PG. 2161	140108023000	318.621	0.000	0.000	0.000	0.000					SEVERANCE ACREAGES- (c) P.N. 140108024000 & P.N. 140108090000		
47-SH		12,35-38		140108090000	7.822	0.000	0.024	0.000	0.024					(c) 61.136 AC. S. RESIDUE, 342.287 AC. N. RESIDUE,		
47-WL1		11,27,30,31		140108024000	415.621	15.461	1.054	0.239	0.815							
47-WL2		12,33-38		140108090000	7.822	0.558	2.611	0.538	2.073					(c) 2.973 AC. N. RESIDUE, 0.081 AC. E. RESIDUE, 0.985 AC. S. RESIDUE		
	TOTAL				742.064	16.019	15.950	0.458	15.492		710.553					
47-U1		11,27,30,31		140108024000		0.000	0.415	0.000	0.415							
47-U2		12,33-38		140108090000 140108024000		0.000	0.596	0.000	0.596							
47-T1		10,25		140108024000		0.000	0.020	0.000	0.020					TO CONSTRUCT DRIVE & COMPLETE GRADING		
47-T2		11,31		140108024000		0.000	0.173	0.000	0.173					TO CONSTRUCT DRIVE & COMPLETE GRADING		
47-T3		11,12,32-34		140108024000 140108090000		0.000	0.132	0.000	0.132					TO COMPLETE GRADING		
48-SH	ROSS COUNTY PARK DISTRICT	12,37,38	O.R. 478, PG. 1804	140108282000	61.671	0.000	0.056	0.000	0.056		61.615					
			O.R. 479, PG. 991													
49	HINTON FAMILY FARM, LLC.	10,34,35	O.R. 500, PG. 2692	140108034000	69.990	0.000	0.000	0.000	0.000					NO TAKE		
50	C. MITCHELL FIELDS, TRUSTEE	10,34,35	VOL. 554, PG. 1042	140108025000	5.350	0.000	0.000	0.000	0.000					NO TAKE		
51	MARK E. THOMAS	10,34,35	O.R. 489, PG. 936	140108158000	0.880	0.000	0.000	0.000	0.000					NO TAKE		
52-WL	LAVERSA J. MOTES &	11,12,30,31	O.R. 299, PG. 1031		31.670	0.707	0.115	0.115	0.000							
52-T1	JOHN J. MOTES, TRUSTEES	11,12,30,31	O.R. 299, PG. 1035	140109014000		0.000	0.200	0.000	0.200			30.963		COMPLETE DRIVE & COMPLETE GRADING		
52-T2		11,12,31,32				0.000	0.043	0.115	0.043					COMPLETE DRIVE & COMPLETE GRADING		
53-T	RAE LYNN WALLER	12,32-34	O.R. 505, PG. 2548	140108027000	0.907	0.000	0.040	0.000	0.040					TO CONSTRUCT DRIVE & COMPLETE GRADING		
54-T	A & R NEWMAN LEASING LLC, AN OHIO LIMITED LIABILITY COMPANY	12,33,34	O.R. 465, PG. 2085	140108029000	0.290	0.000	0.029	0.000	0.029					TO CONSTRUCT DRIVE & COMPLETE GRADING		
55-T	CONNIE MAY	12,33,34	VOL. 563, PG. 80	140108159000	1.182(c)	0.000	0.073	0.000	0.073					TO CONSTRUCT DRIVE & COMPLETE GRADING, (2) BRICK PILLARS TBR, 16 L.F. OF CURB TBR		
56-U	REBECCA E. ANKROM, T.O.D. SUSEN E. CYDRUS	12,33,34	O.R. 454, PG. 269	140108174000	5.000	0.000	0.009	0.000	0.009							
56-T		12,33,34		140108174000		0.000	0.006	0.000	0.006					TO CONSTRUCT DRIVE & COMPLETE GRADING		
57-U	CHARLOTTE M. HIXON, T.O.D.	12,33,34	O.R. 399, PG. 2075	140108160000	1.207(c)	0.000	0.052	0.000	0.052							
	CHRISTINE I. HIXON, ROBIN A. DAUM															
57-T		12,33,34		140108160000		0.000	0.034	0.000	0.034					TO CONSTRUCT DRIVE & COMPLETE GRADING		
57-PRW		12,33,34				0.000	0.000	0.000	0.000				FEDERAL	POINT OF PERMISSIBLE ACCESS STA. 137+00.17		

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

FOR OVERLAP TABLES SEE SHEET 41/42

TYPES OF TITLE LEGEND:
S = SEWER EASEMENT
LA = LIMITED ACCESS
WD = WARRANTY DEED
SH = STANDARD HIGHWAY EASEMENT
T = TEMPORARY EASEMENT

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
STATE OF OHIO, DEPARTMENT OF TRANSPORTATION.

FEDERAL PROJECT NO. E170(943)

PID NO. 93744

STATE JOB NO. 499247

R/W DESIGNER CSW

R/W REVIEWER RFM

SUMMARY OF ADDITIONAL RIGHT OF WAY

ROS-207-0.00

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NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

(d) DEED ACRES
(c) CALCULATED ACRES
* DENOTES RIGHT OF WAY ENCROACHMENT

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
58-WL	STEVEN G. SANFORD & MARY E. SANFORD	12,35,36	VOL. 542, PG. 1033	140108161000	1.319(c)	0.000	0.011	0.000	0.011			1.308	FEDERAL	30 L.F. OF DRIVE PIPE TBR		
58-U		12,33-36				0.000	0.111	0.000	0.111							
58-T		12,33-36				0.000	0.065	0.000	0.065					TO CONSTRUCT DRIVE & COMPLETE GRADING		
58-PRW		12,33,34				0.000	0.000	0.000	0.000					POINT OF PERMISSIBLE ACCESS STA. 138+47.00		
59-WL	LYNN L. CARTEE	12,35,36,39	O.R. 425, PG. 2188	140108162000	1.141(c)	0.000	0.171	0.000	0.171			0.970		(1) 12" TREE, (3) 6" TREES, (3) BUSHES TBR		
59-U		12,35,36,39,40				0.000	0.094	0.000	0.094							
59-T		12,35,39				0.000	0.039	0.000	0.039					TO CONSTRUCT DRIVE & COMPLETE GRADING		
60-WL	MACHELE R. MCBEE	12,35-40	O.R. 397, PG. 546	140108056000	1.020	0.447	0.520	0.447	0.073		0.500			HOUSE ENCROACHES, EXISTING DRIVE TBR, (1) 12" TREE TBR		
60-U		12,35-38				0.000	0.030	0.000	0.030							
60-T		12,35-38				0.000	0.095	0.000	0.095					TO CONSTRUCT DRIVE & COMPLETE GRADING		
61	STEVE B. ARLEDGE	12,37-40	O.R. 527, PG. 36	140108057000	0.220	0.000	0.000	0.000	0.000					NO TAKE, HOUSE ENCROACHES		
62	STEVE B. ARLEDGE	12,37-40	O.R. 527, PG. 36	140108058000	0.500	0.000	0.000	0.000	0.000					NO TAKE		
63-WD	ROBERT J. DAVIS	12,39,40	O.R. 441, PG. 808	140108163000	0.821(c)	0.000	0.013	0.000	0.013			0.808		14' OF FENCE TBR, (2) 12" TREES, (5) BUSHES TBR		
63-S		12,39,40				0.000	0.038	0.000	0.038							
63-U		12,39,40				0.000	0.045	0.000	0.045							
64	A & R NEWMAN LEASING, LLC.	12,37-40	O.R. 508, PG. 2463	140108059000	0.280	0.000	0.000	0.000	0.000					NO TAKE, SIDEWALK TBR		
65	MATTIE LOU TEMPLIN A.K.A. MATTIE L. TEMPLIN	12,37-40	O.R. 440, PG. 1193	140108060000	0.170	0.000	0.000	0.000	0.000					NO TAKE, HOUSE ENCROACHES		
66-S	NICHOLAS C. ELDER & MARITA FAY TURLEY	12,39,40	O.R. 490, PG. 1286	140108164000	0.820(c)	0.000	0.038	0.000	0.038							
	T.O.D. DONALD LEE TURLEY															
66-U		12,39,40				0.000	0.042	0.000	0.042					FLAG POLE TBR, (1) 12" TREE TBR		
67	WENDY NEAL		O.R. 369, PG. 1874	140108061000	0.180	0.000	0.000	0.000	0.000					NO TAKE, SIDEWALK TBR		
		12,39,40														
68-T	ROBERT L. FORCUM & KATHY L. FORCUM	12,39,40	VOL. 539, PG. 289	140108062000	0.830	0.000	0.006	0.000	0.006					TO CONSTRUCT DRIVE & COMPLETE GRADING, SIDEWALK TBR		
69-S	GREGORY A. VANHOOSER & BOBBIE JO VANHOOSER	12,39,40	O.R. 425, PG. 236	140108165000	0.746(c)	0.000	0.034	0.000	0.034							
69-U		12,39,40				0.000	0.024	0.000	0.024							
70	CAROLYN SUE MUSTARD	10,36-37	O.R. 475, PG. 610	140108063000	0.580	0.000	0.000	0.000	0.000					NO TAKE		
71-S	RANDY L. FINK	12,39,40	O.R. 145, PG. 2222	140108035000	5.130	0.000	0.007	0.000	0.007							
71-U		12,39,40				0.000	0.003	0.000	0.003							
72-S	LARRY M. HAVENS & FRANCELIA M. HAVENS	12,39,40	VOL. 502, PG. 651	140108166000	0.935(c)	0.000	0.013	0.000	0.013					120' OF FENCE TBR, (1) 12" TREE TBR		
72-U		12,39,40				0.000	0.031	0.000	0.031							
73	LARRY A. COZAD & LAURA A. COZAD	10,36-37	O.R. 90, PG. 311	140108064000	0.490	0.000	0.000	0.000	0.000					NO TAKE		
74-T	LAVINA LOUISE FULTON	11,29	O.R. 473, PG. 2077	140109010000	0.34	0.000	0.028	0.000	0.028					TO CONSTRUCT DRIVE & COMPLETE GRADING		
			O.R. 260, PG. 704													
75-T1	BMMT REAL ESTATE LLC	11,29	O.R. 432, PG. 2533	140109009000	17.35	0.000	0.029	0.000	0.029					COMPLETE GRADING		
75-T2		11,29				0.000	0.009	0.000	0.009					COMPLETE GRADING		
76-WL	RAINBOW'S END FARMS, LLC	11,27-30	O.R. 440, PG. 2670	140109013000	17.782	0.511	0.511	0.511	0.000			17.271				
76-T	AN OHIO LIMITED LIABILITY COMPANY	11,27-30				0.000	0.295	0.000	0.295					TO CONSTRUCT DRIVE & COMPLETE GRADING		
				140109011000	1.00	0.000	0.072	0.000	0.072					TO CONSTRUCT DRIVE & COMPLETE GRADING		
				140109012000	7.81	0.000	0.000	0.000	0.000							
77-WL	ROSS COUNTY COMMISSIONERS	12,33-36,	P.B. 11, PG.7	N/A	N/A	0.000	0.423	0.423	0.000							
		39,40											FEDERAL	CONSTRUCT DRIVE AND COMPLETE GRADING		

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

FOR OVERLAP TABLES SEE SHEET 41/42

TYPES OF TITLE LEGEND:
S = SEWER EASEMENT
LA = LIMITED ACCESS
WD = WARRANTY DEED
SH = STANDARD HIGHWAY EASEMENT
T = TEMPORARY EASEMENT

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF STATE OF OHIO, DEPARTMENT OF TRANSPORTATION.

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

FEDERAL PROJECT NO. E170(943)

PID NO. 93744

STATE JOB NO. 499247

R/W DESIGNER CSW

R/W REVIEWER RFM

SUMMARY OF ADDITIONAL RIGHT OF WAY

ROS-207-0.00

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W

(41)
AGRICULTURE
STATE OF OHIO
US RT 23,
CHILLICOTHE, OHIO 45601
O.R. 338, PG. 500
1.872 ACRES
14-01-10080.000

N22°38'32"W 244.73'
171+00.81
116.13' LT.
385.00'
N75°0'0"E
Ex LA-R/W

ENTRANCE RAMP
74
73
72
EXIT RAMP

169 170 171 172 173 174

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207
℄ OF EXISTING R/W S.R. 207

POT Sta. 73+36.87
N 5°60'00" E
PI Sta. 72+64
POT Sta. 72+64

MATCHLINE STA. 174+50 - SEE SHEET 16/42

174+40.79
116.13' RT.
379.98'
N71°55'5"E
122.07'
N6°23'16"E
I.P.F.

170+61.36
116.13' RT.
379.01'
N13°46'0"E

(41)
AGRICULTURE
STATE OF OHIO
US RT 23,
CHILLICOTHE, OHIO 45601
O.R. 338, PG. 500
3.939 ACRES
14-01-10081.000

NOTE:
1. ALL STATION AND OFFSETS along HOSPITAL ROAD ARE BASED ON EXISTING CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 207 IS BASED ON PROPOSED CENTERLINE.

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 169+00 TO STA. 174+50

ROS-207-0.00

15 / 42
305
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY

FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W

NOTE:
1. ALL STATION AND OFFSETS ON HOSPITAL ROAD ARE BASED ON EXISTING CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 207 IS BASED ON PROPOSED CENTERLINE.

3. SEE SHEET 41/42 FOR OVERLAP TABLE FOR PARCEL 44.

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

MATCHLINE STA. 96+00 - SEE SHEET 19/42

PC Sta. 95+43.07
PC Sta. 95+31.50

BEGIN PROJECT STA. 175+67.55

CONSTRUCTION LIMITS

N 15° 00' 00" W 109.76'

PI Sta. 94+21.74

MATCHLINE STA. 174+50 - SEE SHEET 15/42

℄ OF CONSTRUCTION HOSPITAL ROAD

℄ OF EXISTING R/W HOSPITAL ROAD

N 15° 00' 00" W 174.12'

PT Sta. 93+44.78

PI Sta. 92+41.02

MATCHLINE STA. 92+50 - SEE SHEET 17/42

N32°12'26"W, 124.95'

176+62.69
132.40' LT

EX LA-R/W

EX. FENCE (TBR)

N 10°40'17" W 385.68'

12" WATER (DND)

TELEPHONE (DND)

TELEPHONE AND 12" WATER MAY NEED TO BE LOWERED BY OTHERS WHERE THEY CROSS THE PROPOSED DITCH

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207

N 74°59'46" E

N 75° 00' 00" E

℄ OF EXISTING R/W S.R. 207

POT Sta. 180+00.00

MATCHLINE STA. 180+25 - SEE SHEET 20/42

(44)
AGRICULTURE
MICHAEL W. ARLEDGE
2157 RIVER RD.,
CHILLICOTHE, OHIO 45601
O.R. 494, PG. 16
14-01-10004.000

(45)
AGRICULTURE
STEPHEN E. COOPER &
PATRICIA J. COOPER
HOSPITAL RD. US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 547, PG. 652
14-01-10046.000

16.5' WIDE UTILITY EASEMENT - O.R.291, PG. 1932

497.99'
S84°27'16"E

44-WL

180+00.00
40.00' RT.
CLRW01

FIBEROPTIC RBO WHERE IT CROSSES THE DITCH

179+95.29
122.70' RT.

177+67.93
132.02 RT.

253.32'
N72°38'58"E

93+27.15
219.41' RT

END ACQUISITION STA. 93+27.15 ℄ EXISTING R/W HOSPITAL RD.

S 13°51'37" W 365.93'

180+13.01
121.98' RT.

180+21.04
121.65' RT.

FRACTION SEC. 10
SEC. 30

EASEMENTS
1 - 16.5' WIDE UTILITY EASEMENT - O.R.291, PG. 1932
4 - NOT USED
5 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 282, PG. 708

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

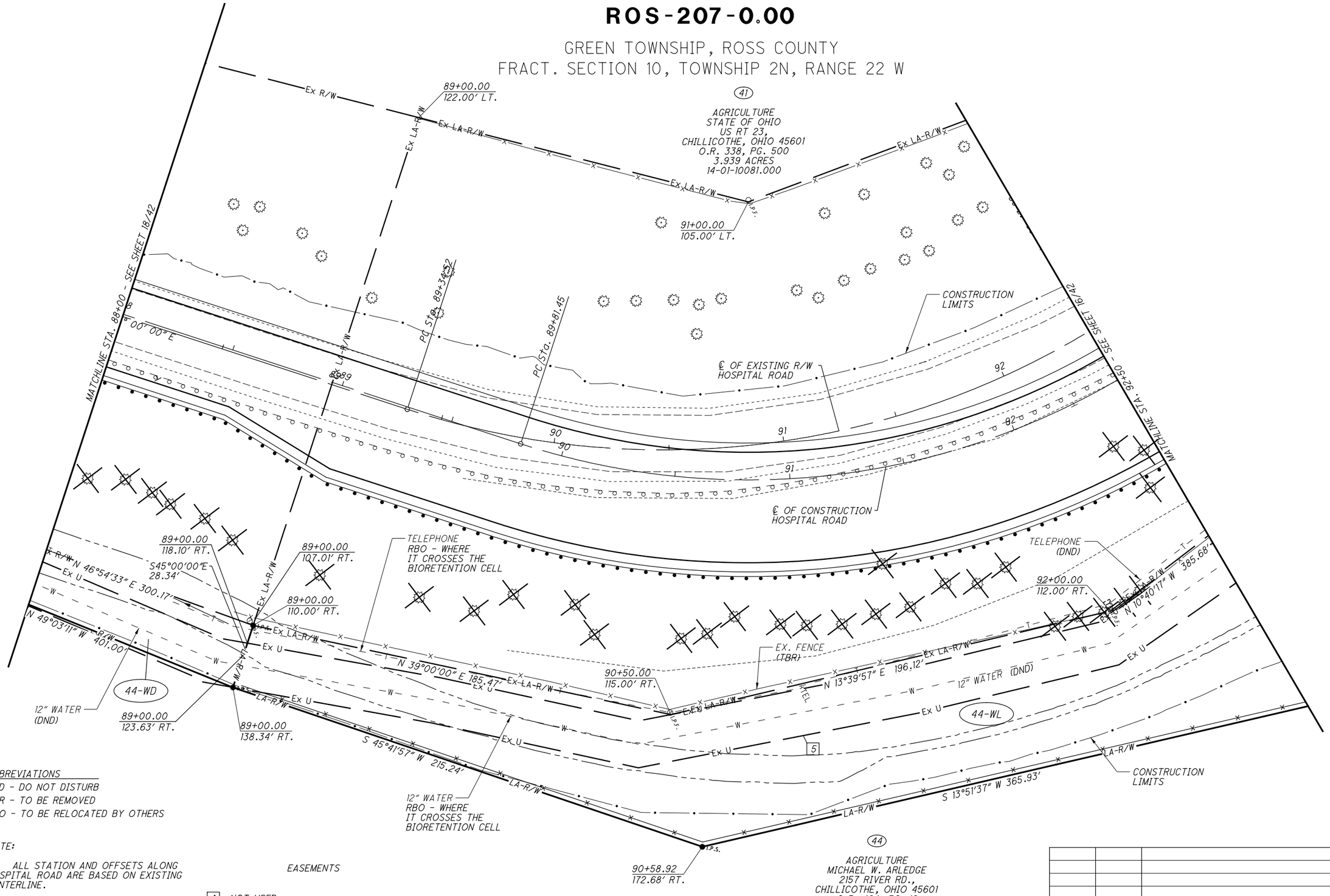
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ROW DETAIL FOR S.R. 207
STA. 174+50.00 TO STA. 180+25.00

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W



ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

NOTE:

1. ALL STATION AND OFFSETS ALONG HOSPITAL ROAD ARE BASED ON EXISTING CENTERLINE.

2. SEE SHEET 41/42 FOR OVERLAP TABLE FOR PARCEL 44.

EASEMENTS

4 - NOT USED
5 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 282, PG. 708

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR HOSPITAL ROAD
STA. 92+50.00 TO STA. 88+00.00

ROS-207-0.00

17 / 42

307
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W

NOTE:

1. ALL STATION AND OFFSETS ALONG HOSPITAL ROAD ARE BASED ON EXISTING CENTERLINE.

2. SEE SHEET 41/42 FOR OVERLAP TABLE FOR PARCEL 44.

EASEMENTS

4 - NOT USED
5 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 282, PG. 708
6 - 100' AEP OHIO TRANSMISSION COMPANY, INC. EASEMENT O.R.476, PG. 2123

Ex LA-R/W
84+79.85
183.22' LT.
82+43.85
143.82' LT.
82+60.00
80.00' LT.
Ex R/W
Ex U
Ex T
Ex W
OH-E
41
VACANT
STATE OF OHIO
US RT 23,
CHILLICOTHE, OHIO 45601
O.R. 338, PG. 500
3.939 ACRES
14-01-10081.000
EXISTING OVERHEAD ELECTRIC TRANSMISSION LINE
℄ OF EXISTING R/W HOSPITAL ROAD
CONSTRUCTION LIMITS
18" CPP
DND
GRAVEL FIELD DRIVE
12'
ASPHALT FIELD DRIVE APRON
15'
N 44° 55' 45" E 731.30'
N 45° 00' 00" E
℄ OF CONSTRUCTION HOSPITAL ROAD
MATCHLINE STA. 88+00 - SEE SHEET 17/42
83+10.00
97.64' RT.
83+74.90
98.17' RT.
83+94.27
98.33' RT.
84+52.20
98.80' RT.
86+00.00
100.00' RT.
TELEPHONE (RBO)
TELEPHONE (DND)
12" WATER (DND)
83+15.89
104.35' RT.
N86° 16' 30"W
16.45'
83+20.85
110.00' RT.
83+22.30
111.65' RT.
84+05.02
110.00' RT.
84+15.09
120.94' RT.
85+00.00
110.00' RT.
N 45°27'59" E 290.01'
S 45°00'00" W 179.15'
N 46°54'33" E 300.17'
S 49°03'11" W 401.00'
5
6
44-WD
40
AGRICULTURE
CLOVERLEAF DEVELOPMENT, INC.
US RT. 23,
CHILLICOTHE, OHIO 45601
O.R. 234, PG. 2671
14-01-10005.000
29.966 ACRES
14-01-10006.000
56.571 ACRES
14-01-10057.000
2.015 ACRES
O.R. 361, PG. 2112
BEGIN ACQUISITION
STA. 83+10.00
℄ EXISTING R/W
HOSPITAL RD.
14-01-10005.000
29.966 ACRES
44
AGRICULTURE
MICHAEL W. ARLEDGE
2157 RIVER RD.,
CHILLICOTHE, OHIO 45601
O.R. 494, PG. 16
14-01-10004.000
CONSTRUCTION LIMITS

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR HOSPITAL ROAD
STA. 82+50.00 TO STA. 88+00.00

ROS-207-0.00

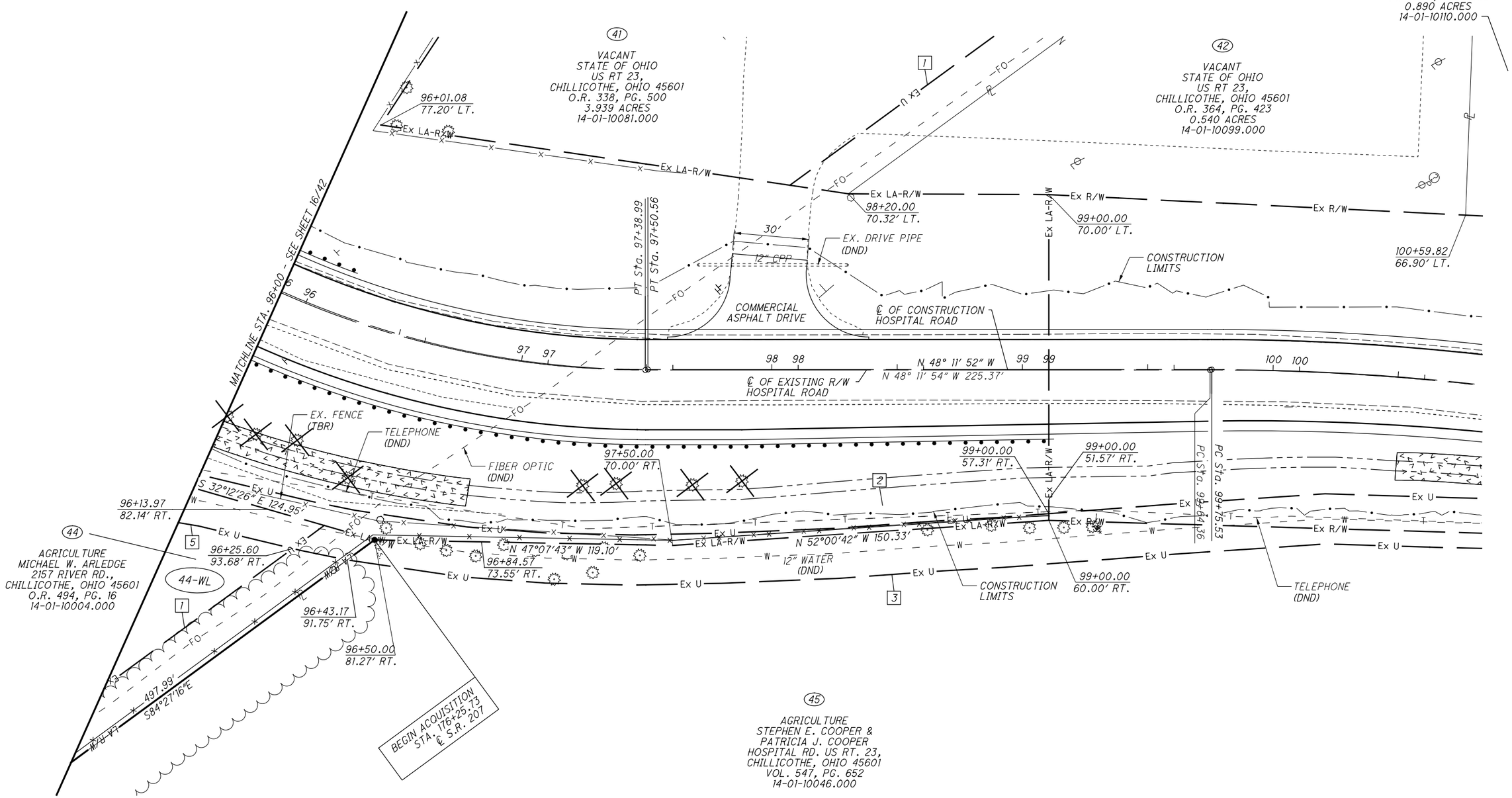
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308 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W



NOTE:

1. ALL STATION AND OFFSETS ALONG HOSPITAL ROAD ARE BASED ON EXISTING CENTERLINE.
2. SEE SHEET 41/42 FOR OVERLAP TABLE FOR PARCEL 44.

EASEMENTS

1 - 16.5' AT&T UTILITY EASEMENT O.R. 291, PG. 1935
2 - HORIZON UTILITY UNKNOWN EASEMENT
3 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 284, PG. 1611
4 - NOT USED
5 - 20' ROSS COUNTY WATER LINE EASEMENT O.R. 282, PG. 708

ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR HOSPITAL ROAD
STA. 96+00.00 TO STA. 100+50.00

ROS-207-0.00

19 / 42

309 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
FRACT. SECTION 10, TOWNSHIP 2N, RANGE 22 W
SECTION 30, TOWNSHIP 9N, RANGE 21 W

(45)
RESIDENTIAL
STEPHEN E. COOPER &
PATRICIA J. COOPER
HOSPITAL RD. US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 547, PG. 652
14-01-10046.000

FRACT. SECTION 10 - RNG. 22 W
FRACT. SECTION 30 - RNG 21 W
SECTION 7
SECTION 19
185+80.07
1416.93' LT.
1389.59'
338.61'
184+57.19
1098.09' LT.
S 86°21'11" E 2635.50'
1059.98'
S04°40'06"W
181+00.28
100.00' LT
R.P.
L-R/W
1974.72'
N74°59'46"E
LA-R/W
S 84°27'16" E 497.99'
24.48'
180+92.04
76.95' LT.
46-WL
CONSTRUCTION LIMITS
180+62.49
70.40' LT.
180+83.37
80.20' LT
FIBEROPTIC RBO WHERE IT CROSSES THE DITCH
S04°40'06"W
210.91'
1
EXISTING DITCH
MATCHLINE STA. 180+25 SEE SHEET 16/42
181
182
183
184
185
N 74° 59' 46" E
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207
180+64.52
0.00' LT.
PROPOSED CULVERT
FRACT. SECTION 10 - RNG. 22 W
SECTION 30 - RNG 21 W
185+00.00
40.00' RT
CLRW02
CONSTRUCTION LIMITS
46-WL
44-WL
528.72'
N72°38'58"E
1525.69'
N74°59'46"E
185+49.31
100.00' RT.
MATCHLINE STA. 186+00 SEE SHEET 21/42

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

(44)
AGRICULTURE
MICHAEL W. ARLEDGE
2157 RIVER RD.,
CHILLICOTHE, OHIO 45601
O.R. 494, PG. 16
14-01-10004.000

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

EASEMENTS
1 - 16.5' AT&T UTILITY EASEMENT O.R. 291, PG. 1935

NOTE:
1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.
2. SEE SHEET 41/42 FOR OVERLAP TABLE FOR PARCEL 44.

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 180+25.00 TO STA. 186+00.00

ROS-207-0.00

20/42

310/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 30, TOWNSHIP 9N, RANGE 21 W

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

LA-R/W — LA-R/W — 1974.72' S74°59'46"W — LA-R/W — LA-R/W

CONSTRUCTION LIMITS

46-WL

MATCHLINE STA. 186+00 SEE SHEET 20/42

6 — 187 — 188 — 189 — 190 — 191

N 74° 59' 46" E

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207

190+00.00
40.00' RT
CLRW03

46-WL

MATCHLINE STA. 191+75 SEE SHEET 22/42

CONSTRUCTION LIMITS

VW — LA-R/W — LA-R/W — 1525.69' N74°59'46"E — LA-R/W — LA-R/W — LA

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 186+00.00 TO STA. 191+75.00

ROS-207-0.00

21 / 42

311 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19 & 30, TOWNSHIP 9N, RANGE 21 W

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

LA-R/W — LA-R/W — 1974.72' S74°59'46"W — LA-R/W — LA-R/W — LA-R/W

CONSTRUCTION LIMITS

46-WL

MATCHLINE STA. 191+75 SEE SHEET 21/42

192 193 194 195 196 197

N74°59'46"E

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207

195+00.00
40.00' RT
CLRW04

46-WL

MATCHLINE STA. 197+50 SEE SHEET 23/42

CONSTRUCTION LIMITS

R/W — LA-R/W — 1525.69' N74°59'46"E — LA-R/W — LA-R/W

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 191+75.00 TO STA. 197+50.00

ROS-207-0.00

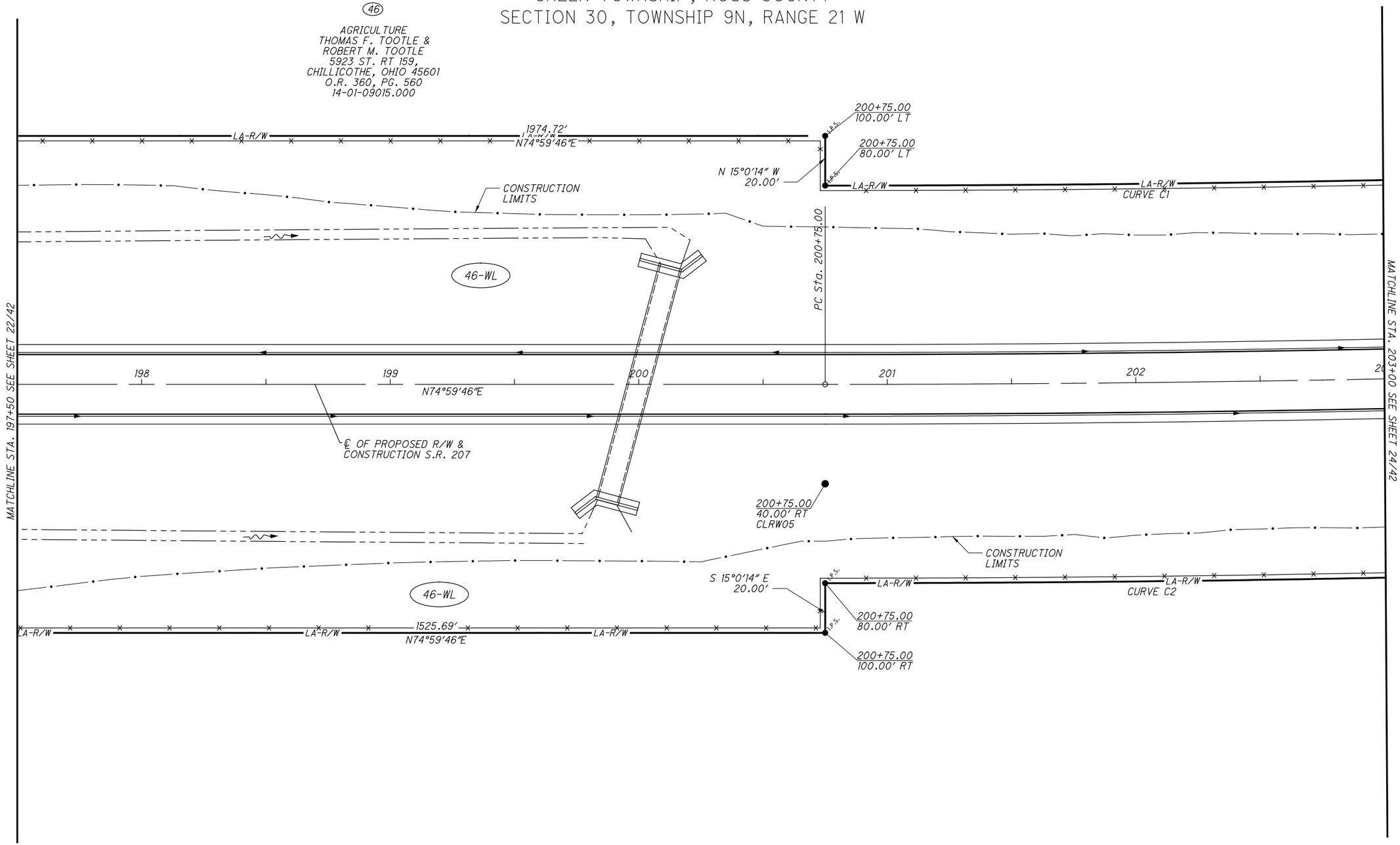
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312
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 30, TOWNSHIP 9N, RANGE 21 W



PROPOSED RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
C1	4°04'08"	11379.15	808.07	807.90	N72°57'43"E
C2	4°04'08"	11539.15'	819.43	819.26	N72°57'43"E

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

46
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 197+50.00 TO STA. 203+00.00

ROS-207-0.00

23 / 42

313 / 332

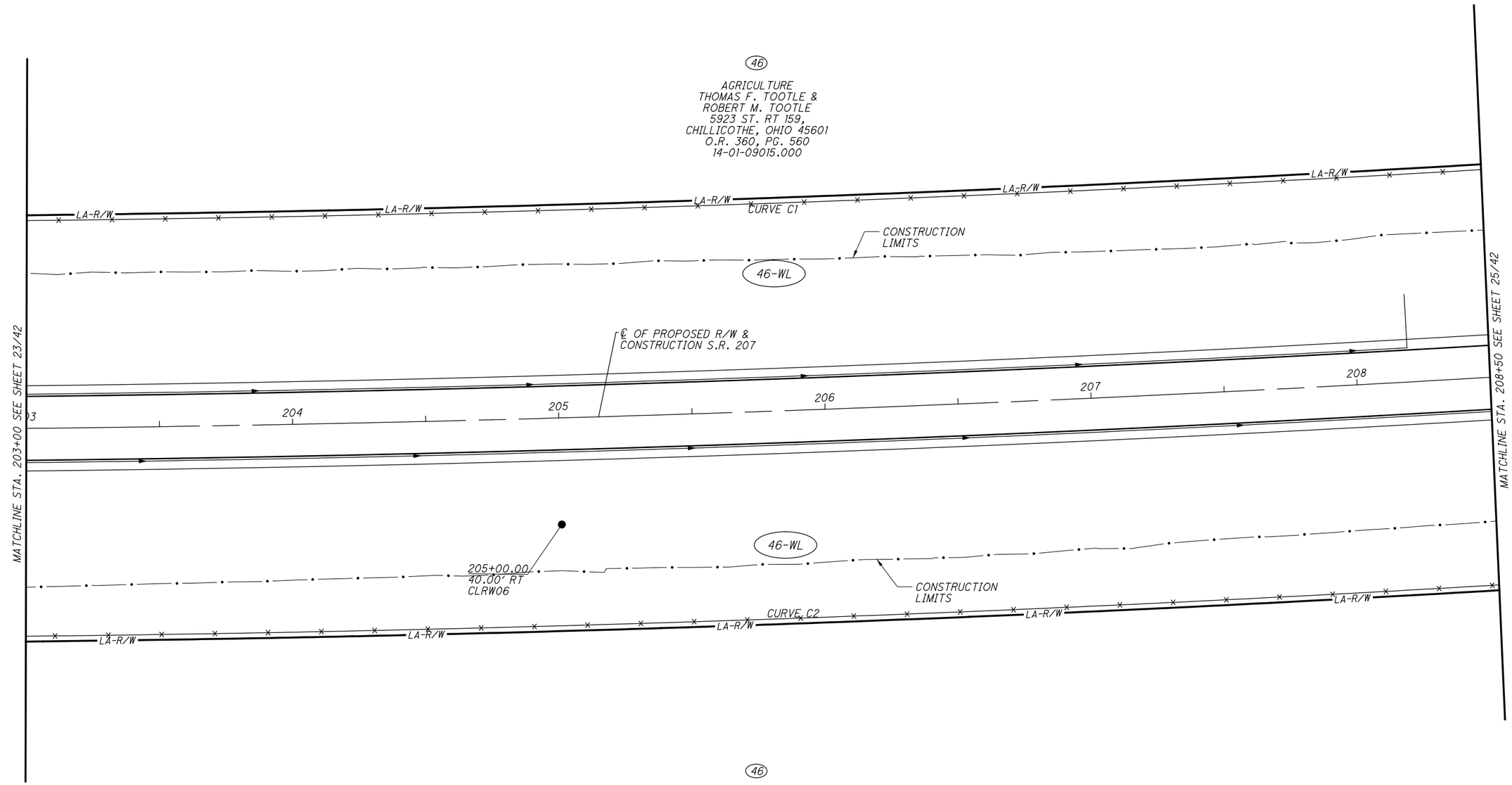
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ROS-207-0.00

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

GREEN TOWNSHIP, ROSS COUNTY
SECTION 30, TOWNSHIP 9N, RANGE 21 W



PROPOSED RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
C1	4°04'08"	11379.15	808.07	807.90	N72°57'43"E
C2	4°04'08"	11539.15'	819.43	819.26	N72°57'43"E

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 203+00.00 TO STA. 208+50.00

ROS-207-0.00

24 / 42

314 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19 & 30, TOWNSHIP 9N, RANGE 21 W

PROPOSED RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
C1	4°04'08"	11379.15	808.07	807.90	N72°57'43"E
C2	4°04'08"	11539.15'	819.43	819.26	N72°57'43"E
C3	1°48'54"	2371.83	75.13	75.13	S71°50'06"W
C4	2°04'55"	2201.83	80.00	80.00	S73°42'31"W
C5	30°16'52"	2211.83	1168.97	1155.41	N86°04'05"E
C6	2°04'21"	2211.83	80.00	80.00	N73°42'31"E

N16°17'29"W 10.64'
209+63.69 233.12' LT
47-T1
85.10'
S86°21'11"E
I.P.S.
10.16'
S73°42'31"W 10.00'
209+54.24 212.51' LT
209+63.54 222.48' LT
209+63.39 212.33' LT
210+36.73 204.10' LT
S16°17'29"E 10.64'
210+36.89 193.46' LT
TMP
85.10'
47
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
46
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000
46-T1
S16°17'29"E 80.00'
80.00'
LA-R/W
POPA *
209+62.18 132.34' LT
209+52.73 132.52' LT
N73°42'31"E 10.00'
52.34'
S16°17'29"E 142.50'
209+61.35 80.00' LT
208+88.75 80.00' LT
I.P.S.
LA-R/W
CURVE C1
CURVE C3
46-WL
1206.81'
S86°21'11"E
LA-R/W
POPA*
POINT OF PERMISSIBLE ACCESS *
40 FEET EACH SIDE OF CENTERLINE
STA. 210+00.00 FIELD DRIVE
CONSTRUCTION LIMITS
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 207
PRC Sta. 208+88.75
S 16° 17' 29" E
12
14
AEP TRANSMISSION POLE
Ex U
213+15.42 110.80' LT
MATCHLINE STA. 208+50 SEE SHEET 24/42
MATCHLINE STA. 214+00 SEE SHEET 26/42
209
210
211
212
213
208+88.75 40.00' RT CLRW07
POPA*
POINT OF PERMISSIBLE ACCESS *
40 FEET EACH SIDE OF CENTERLINE
STA. 210+00.00 FIELD DRIVE
209+58.55 80.00' RT
CURVE C2
208+88.75 80.00' RT
LA-R/W
N16°17'29"W 10.00'
209+58.36 90.00' RT
CURVE C6
TMP
CURVE C4
210+41.45 80.00' RT
46-WL
CONSTRUCTION LIMITS
CURVE C5
LA-R/W
S16°17'29"E 10.00'
210+41.64 90.00' RT
212+64.46 80.00' RT
213+71.43 80.00' RT
AEP TRANSMISSION LINE EASEMENT
100.00'
VOL. 8, PG. 701
46-T2
46
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 208+50.00 TO STA 214+00.00

ROS-207-0.00

25 / 42

315 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

100.00'
AEP TRANSMISION LINE
EASEMENT
VOL. 8, PG. 701

Ex U

214+09.55
91.91' LT

A-R/W

LA-R/W

CONSTRUCTION
LIMITS

℄ OF PROPOSED R/W &
CONSTRUCTION S.R. 207

1206.81'
S86°21'11"E

47

AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000

46-WL

214
215
216
217
218
219

MATCHLINE STA. 214+00 SEE SHEET 25/42

MATCHLINE STA. 219+50 SEE SHEET 27/42

215+00.00
40.00' RT
CLRW08

CURVE C5

46

AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

PROPOSED RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
C5	30°16'52"	2211.83	1168.97	1155.41	N86°04'05"E

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 214+00.00 TO STA. 219+50.00

ROS-207-0.00

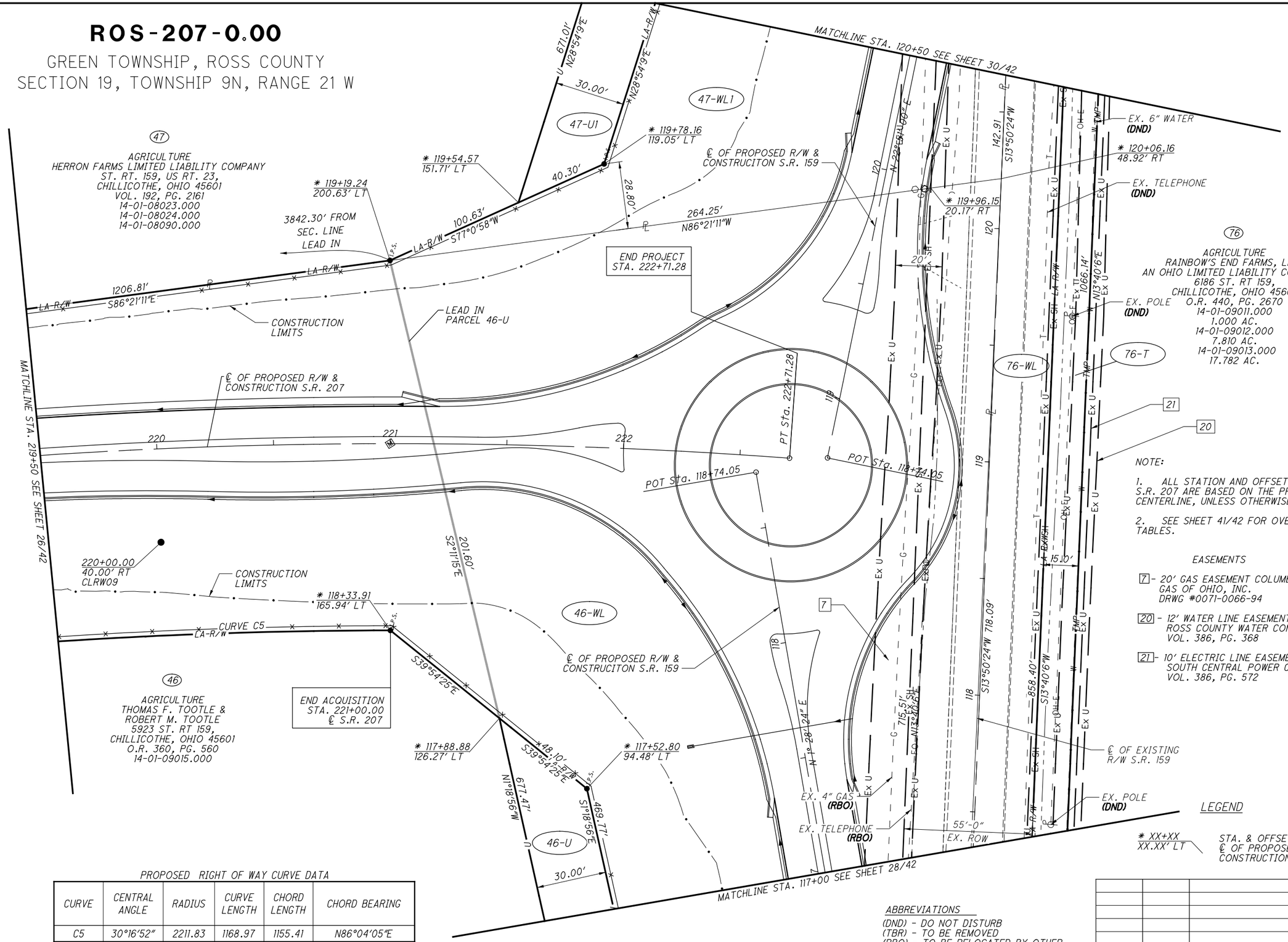
26/42

316/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W



NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE, UNLESS OTHERWISE SHOWN.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

LEGEND

* XX+XX
XX.XX' LT — STA. & OFFSET TAKEN FORM ℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159

PROPOSED RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
C5	30°16'52"	2211.83	1168.97	1155.41	N86°04'05"E

ABBREVIATIONS

(DND) - DO NOT DISTURB
(TBR) - TO BE REMOVED
(RBO) - TO BE RELOCATED BY OTHER

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 207
STA. 219+50.00 TO STA. 222+71.28

ROS-207-0.00

27 / 42

317 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE, UNLESS OTHERWISE SHOWN.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

EASEMENTS

[7] - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

[20] - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

[21] - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

LEGEND

* XX+XX
XX.XX' LT — STA. & OFFSET TAKEN FROM ℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

(76)
AGRICULTURE
RAINBOW'S END FARMS, LLC.
AN OHIO LIMITED LIABILITY COMPANY
6186 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 440, PG. 2670
14-01-09011.000
1.000 AC.
14-01-09012.000
7.810 AC.
14-01-09013.000
17.782 AC.

ABBREVIATIONS
(DND) - DO NOT DISTURB
(TBR) - TO BE REMOVED
(RBO) - TO BE RELOCATED BY OTHER

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 159
STA. 113+00.00 TO STA. 117+00.00

ROS-207-0.00

28/42

318/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

ABBREVIATIONS
(DND) - DO NOT DISTURB
(TBR) - TO BE REMOVED
(RBO) - TO BE RELOCATED BY OTHER

(46)
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

1 STORY FRAME

BEGIN WORK
STA. 110+35.00

POT Sta. 107+66.66

POT Sta. 108+00.00

GRAVEL RESIDENTIAL DRIVE

109+05.00
45.00' LT

N76°19'54"W
15.00'

120.0'

109+05.00
30.00' LT

367.97'

N13°40'6"E

369.44

S13°40'6"W

T.P.O.B.
74-T

110+44.49
25.00' RT

108+80.00
25.00' RT

109+64.51
25.00' RT

N 13° 40' 06" E

109+64.41
24.38' RT
J.P.F

84.51'

N13°40'6"E

S76°19'54"E, 15.00'

85.32'

S79°25'38"E, 15.02'

108+80.00
40.00' RT

109+65.32
40.00' RT

N13°40'06"E, 79.99'

CONSTRUCTION LIMITS

BEGIN ACQUISITION
STA. 108+80.00
S.R. 159

55.0' EX. ROW

20.0'

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 159 ARE BASED ON THE PROPOSED CENTERLINE, UNLESS OTHERWISE SHOWN.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

(75)
COMMERCIAL
BMMT REAL ESTATE LLC
5746 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 432, PG. 2533
14-01-09009.000
17.35 AC.

(74)
RESIDENTIAL
LAVINA LOUISE FULTON
5934 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 473, PG. 2077
O.R. 260, PG. 704
14-01-09010.000
0.34 AC.

N13°40'06"E
20.30'

S79°25'38"E
15.02'

1 STORY FRAME

GRAVEL RESIDENTIAL DRIVE

CONSTRUCTION LIMITS

EX. POLE (RBO)

111+56.94
45.00' LT

46-T3

PC Sta. 111+58.99

111+00.90
30.00' LT

T.P.O.B.
75-T

110+70.62
25.00' RT

EX. POLE (DND)

110+45.30
40.00' RT

N81°54'06"W
15.07'

110+72.09
40.00' RT

S13°40'06"W
26.78'

76-T

111+58.99
20.00' RT
CLRW10

(76)
AGRICULTURE
RAINBOW'S END FARMS, LLC.
AN OHIO LIMITED LIABILITY COMPANY
6186 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 440, PG. 2670
14-01-09011.000
1.000 AC.
14-01-09012.000
7.810 AC.
14-01-09013.000
17.782 AC.

EX. TELEPHONE (RBO)

677.47'
N1°18'56"W

46-U

N1°18'56"W, 469.77'

112+75.16
42.11' LT

30.0'

S81°54'06"E
15.07'

46-WL
715.51'

℄ OF EXISTING R/W S.R. 159

T.P.O.B.
46-T & 46-U
112+75.87
27.06' LT

112+77.16
0.88' RT

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159

T.P.O.B.
76-T
112+78.39
28.15' RT

209.18'

1066.14'

EX. POLE (DND)

EX. 4" GAS (RBO)

EX. 6" WATER (DND)

EX. TELEPHONE (DND)

112+79.06
43.20' RT

N13°40'06"E
858.40'

MATCHLINE STA. 113+00 SEE SHEET 28/42

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 159
STA. 108+00.00 TO STA. 113+00.00

ROS-207-0.00

29/42

319/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

46
AGRICULTURE
THOMAS F. TOOTLE &
ROBERT M. TOOTLE
5923 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 360, PG. 560
14-01-09015.000

47
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000

76
AGRICULTURE
RAINBOW'S END FARMS, LLC.
AN OHIO LIMITED LIABILITY COMPANY
6186 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 440, PG. 2670
14-01-09011.000
1.000 AC.
14-01-09012.000
7.810 AC.
14-01-09013.000
17.782 AC.

52
AGRICULTURE
LAVERSA J. MOTES &
JOHN J. MOTES, TRUSTEES
6186 ST. RT 159,
CHILLICOTHE, OHIO 45601
O.R. 299, PG. 1031
O.R. 299, PG. 1035
14-01-09014.000
31.67 AC.

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 159 ARE BASED ON THE PROPOSED CENTERLINE, UNLESS OTHERWISE SHOWN.
2. SEE SHEET 41/42 FOR OVERLAP TABLES.

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

ABBREVIATIONS

(DND) - DO NOT DISTURB
(TBR) - TO BE REMOVED
(RBO) - TO BE RELOCATED BY OTHER

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 159
STA. 120+50.00 TO STA. 123+00.00

ROS-207-0.00

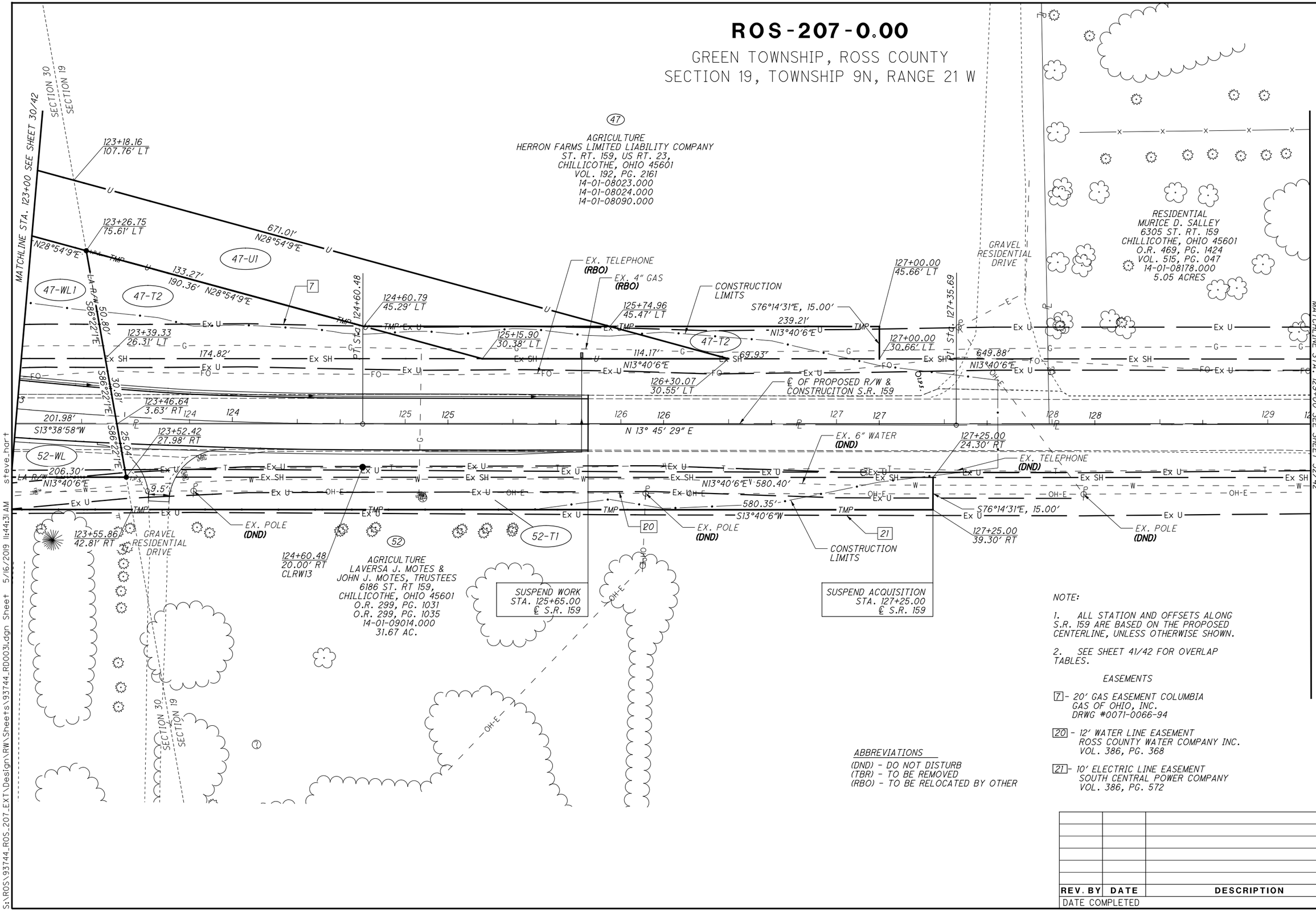
30 / 42

330
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W



NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 159 ARE BASED ON THE PROPOSED CENTERLINE, UNLESS OTHERWISE SHOWN.

2. SEE SHEET 41/42 FOR OVERLAP TABLES.

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

ABBREVIATIONS

(DND) - DO NOT DISTURB
(TBR) - TO BE REMOVED
(RBO) - TO BE RELOCATED BY OTHER

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 159
STA. 123+00.00 TO STA. 129+00.00

ROS-207-0.00

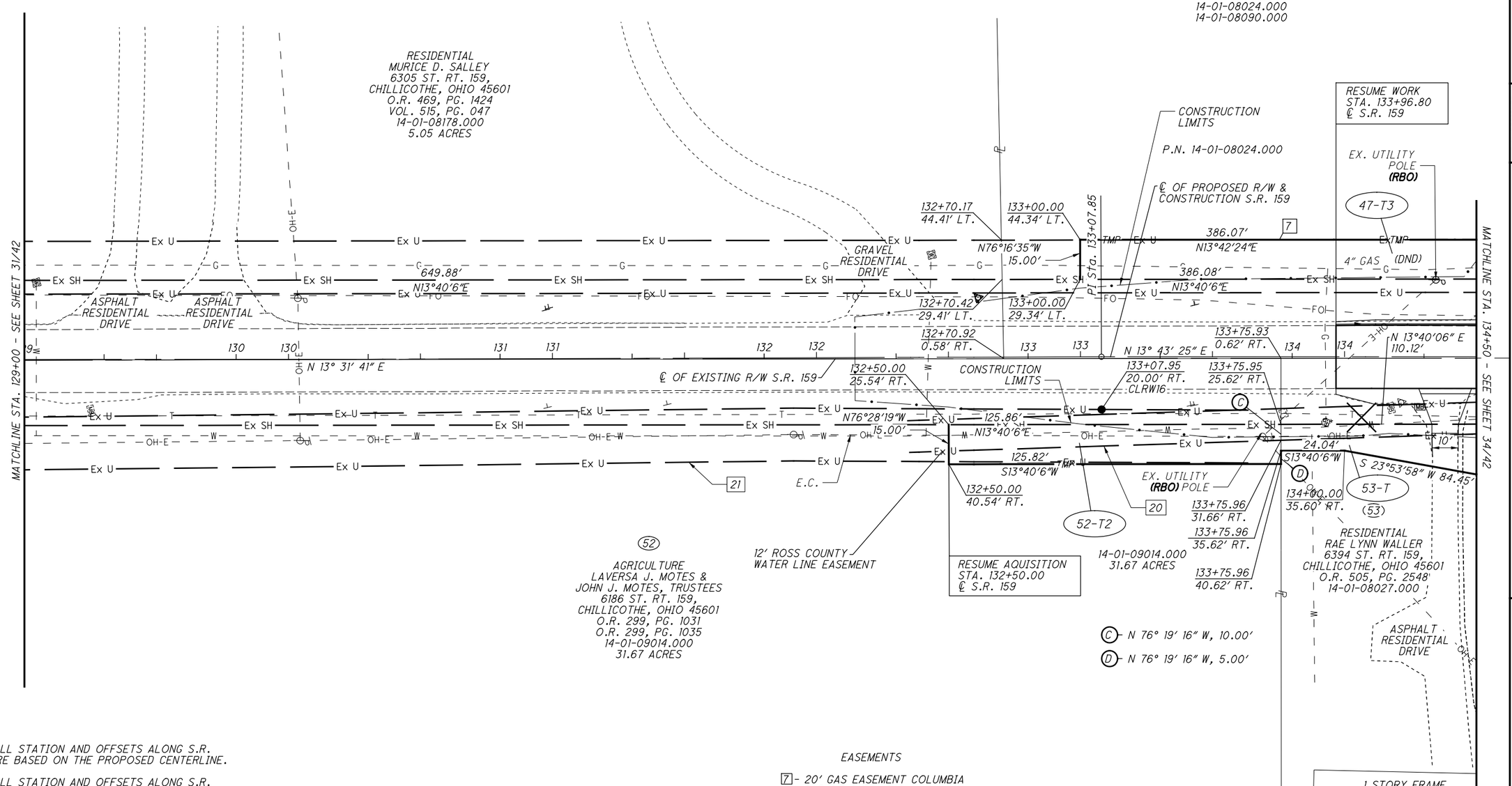
31/42

321/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W



NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.

3. SEE SHEET 41/42 FOR OVERLAP TABLES FOR PARCELS 47, 52, & 53.

ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

EASEMENTS

7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94

20 - 12' WATER LINE EASEMENT ROSS COUNTY WATER COMPANY INC. VOL. 386, PG. 368

21 - 10' ELECTRIC LINE EASEMENT SOUTH CENTRAL POWER COMPANY VOL. 386, PG. 572

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW DETAIL FOR S.R. 159
STA. 129+00.00 TO STA. 134+50.00

ROS-207-0.00

32/42

322/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

EASEMENTS

[7] - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94
[16] - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 544, PG. 456
[17] - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 508, PG. 390
[18] - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 503, PG. 482
[19] - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 543, PG. 895

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.

3. SEE SHEET 41/42 FOR OVERLAP TABLES FOR PARCELS 47, 53, 54, 55, 56, 57 & 58.

(47)
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000

P.N. 14-01-08090.000

P.N. 14-01-08024.000

MATCHLINE STA. 134+50 - SEE SHEET 32/42

MATCHLINE STA. 139+60 - SEE SHEET 35/42

138+58.24
150.12' LT

21.08'

382.70'
N2°13'59"E

138+79.21
147.90' LT.

30.0'

359.75'
N2°13'59"E

LA-R/W

138+62.97
119.45' LT

47-U2

245.04'
N27°19'54"W

180.14'
N27°19'54"W

CONSTRUCTION LIMITS

PT Sta. 138+47.79

PC Sta. 139+34.73

47-WL2

N 3° 47' 13" W 139

47-T3

136+44.13
40.51' LT.

136+65.63
18.49' LT.

136+25.33
27.17' LT

136+72.07
22.78' LT.

16.96

136+98.41
39.52' LT

136+91.74
35.40' LT.

S76°19'54"E, 14.74'

386.07'
N13°42'24"E

323.39'
S13°40'6"W

PC Sta. 135+55.95

22.86'

45.73'

62.69'

136+39.24
0.00' LT

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159

S 13°40'06" W

N 76°19'54" W
30.00'

136+85.17
9.13' RT.

S 13°40'06" W 420.16'

℄ OF EXISTING R/W S.R. 159

77-WL

134+86.07
25.51' RT.

134+87.18
16.04' RT.

135+37.61
14.40' RT.

135+36.21
25.46' RT.

136+34.33
3.60' RT

136+83.04
25.35' RT.

136+81.94
33.91' RT.

138+21.91
64.46' RT.

110.12'
N 13°40'06" E

S 13°40'06" W 50.14'

135+55.95
20.00' RT. CLRW17

S 13°40'06" W 124.82'

136+56.91
40.91' RT.

136+56.41
45.88' RT.

10.00'

25.00'

5.00'

S 13°40'06" W 150.18'

S 13°40'06" W 215.06'

S 13°40'06" W 189.49'

S 13°40'06" W 135.38'

138+19.37
74.08' RT.

138+18.12
78.89' RT.

139+50.00
118.78' RT.

25.18'

25.20'

54-T

55-T

56-U

56-T

57-U

57-T

58-T

58-U

58-PRW

57-PRW

S 23°53'58" W
84.45'

S 13°40'06" W 49.93'

S 13°40'06" W 128.00'

134+83.12
50.52' RT.

135+33.05
50.47' RT.

136+55.43
55.82' RT.

CONSTRUCTION LIMITS

POINT OF PERMISSIBLE ACCESS STA. 137+00.17 RESIDENTIAL DRIVE

POINT OF PERMISSIBLE ACCESS STA. 138+47.00 RESIDENTIAL DRIVE

53-T

S 69°33'28" E

S 69°04'29" E

S 76°19'54" E

S 76°19'54" E

S 76°19'54" E

(53)
RESIDENTIAL
RAE LYNN WALLER
6394 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 505, PG. 2548
14-01-08027.000

(54)
RESIDENTIAL
A & R NEWMAN
LEASING LLC,
AN OHIO LIMITED
LIABILITY COMPANY
6410 ST. RT. 159,
CHILLICOTHE,
OHIO 45601
O.R. 465, PG. 2085
14-01-08029.000

(55)
RESIDENTIAL
CONNIE MAY
6430 ST. RT. 159,
CHILLICOTHE, OHIO 45601
PART OF LOT NO. 1 OF HIGH
CREST ESTATES SUBDIVISION
VOL. 563, PG. 80
14-01-08159.000

(56)
RESIDENTIAL
REBECCA E. ANKROM
T.O.D. SUSEN E. CYDRUS
6448 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 454, PG. 269
14-01-08174.000

(57)
RESIDENTIAL
CHARLOTTE M. HIXON
T.O.D. CHRISTINE I. HIXON,
ROBIN A. DAUM
6456 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 2 OF HIGH
CREST ESTATES SUBDIVISION
O.R. 399, PG. 2075
14-01-08160.000

(58)
RESIDENTIAL
STEVEN G. SANFORD &
MARY E. SANFORD
6490 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 3 OF HIGH
CREST ESTATES SUBDIVISION
VOL. 542, PG. 1033
14-01-08161.000

HIGH CREST ESTATES SUBDIVISION
P.B. 11, PG. 7

HIGH CREST ESTATES SUBDIVISION
P.B. 11, PG. 7

(D) - 136+57.92, 30.96' RT.
(E) - 136+80.69, 43.83' RT.
(F) - 136+80.07, 48.79' RT.
(G) - N 76°19'54" W, 25.00'
(H) - 136+89.28, 20.59' LT.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW BOUNDARY FOR S.R. 159
STA. 134+50.00 TO STA. 139+50.00

ROS-207-0.00

33/42

323/332

S:\ROS\93744_ROS_207_EXT\Design\RW\Sheets\93744_RD0019.dgn Sheet 5/16/2019 11:44:36 AM steve_hart

ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.

3. SEE SHEET 41/42 FOR OVERLAP TABLES.

ABBREVIATIONS

DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

(47)
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000

P.N. 14-01-08024.000

P.N. 14-01-08090.000

47-U2
47-WL2
47-T3
47-WL
55-T
54-T
53-T
56-U
56-T
57-U
57-T
58-PRW
58-U
58-T
57-PRW

MATCHLINE STA. 134+50 - SEE SHEET 32/42

MATCHLINE STA. 139+50 - SEE SHEET 36/42

PC Sta. 135+55.95

PT Sta. 138+47.79

PC Sta. 139+34.73

CONSTRUCTION LIMITS

GRAVEL FIELD DRIVE

4" GAS (DND)

4" GAS (RBO)

TELEPHONE (DND)

TELEPHONE (RBO)

135+39.37
0.46' RT

EX. UTILITY POLE (RBO)

EX. CURB (TBR)

6" WATER (DND)

E.C.

ASPHALT RESIDENTIAL DRIVE

EX. BRICK PILLARS (TBR)

CONCRETE RESIDENTIAL DRIVE

GRAVEL RESIDENTIAL DRIVE

℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159

℄ OF EXISTING R/W S.R. 159

EX. DRIVE PIPE (TBR)

EX. UTILITY POLE (DND)

POINT OF PERMISSIBLE ACCESS STA. 138+47.00 RESIDENTIAL DRIVE

POINT OF PERMISSIBLE ACCESS STA. 137+00.17 RESIDENTIAL DRIVE

N 3° 47' 13" W

(53) RESIDENTIAL
RAE LYNN WALLER
6394 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 505, PG. 2548
14-01-08027.000

(54) RESIDENTIAL
A & R NEWMAN LEASING LLC,
AN OHIO LIMITED LIABILITY COMPANY
6410 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 465, PG. 2085
14-01-08029.000

(55) RESIDENTIAL
CONNIE MAY
6430 ST. RT. 159,
CHILLICOTHE, OHIO 45601
PART OF LOT NO. 1 OF HIGH CREST ESTATES SUBDIVISION
VOL. 563, PG. 80
14-01-08159.000

HIGH CREST ESTATES SUBDIVISION
P.B. 11, PG. 7

(56) RESIDENTIAL
REBECCA E. ANKROM
T.O.D. SUSEN E. CYDRUS
6448 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 454, PG. 269
14-01-08174.000

(57) RESIDENTIAL
CHARLOTTE M. HIXON
T.O.D. CHRISTINE I. HIXON,
ROBIN A. DAUM
6456 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 2 OF HIGH CREST ESTATES SUBDIVISION
O.R. 399, PG. 2075
14-01-08160.000

(58) RESIDENTIAL
STEVEN G. SANFORD &
MARY E. SANFORD
6490 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 3 OF HIGH CREST ESTATES SUBDIVISION
VOL. 542, PG. 1033
14-01-08161.000

1 STORY BRICK
1 STORY FRAME
2 STORY GARAGE

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW TOPOGRAPHICAL FOR S.R. 159
STA. 134+50.00 TO STA. 139+50.00

ROS-207-0.00

34 / 42

324
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

(47)
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000

P.N. 14-01-08090.000

N09°30'32"E, 41.73'
143+31.59
89.02' LT
47-SH
MATCHLINE STA. 143+50 - SEE SHEET 37/42
LA-R/W
30.0'
253.11'
N55°28'24"E
278.88'
N55°28'24"E
141+27.04
204.76' LT
47-U2
47-WL2
CONSTRUCTION LIMITS
141+28.88
171.28' LT
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159
PC Sta. 142+93.11
BEGIN WORK
STA. 237+46.78
℄ S.R. 180
POT Sta. 141+27.04
POT Sta. 10+00.00
POT Sta. 237+46.78
382.70'
N2°13'59"E
359.75'
N2°13'59"E
N 7° 36' 34" E
PT Sta. 140+04.34
140+37.06
58.44' RT.
140+32.81
88.16' RT.
140+07.27
55.28' RT.
140+02.51
84.98' RT.
139+49.81
46.29' RT.
139+50.00
118.78' RT.
N 32° 46' 12" E
420.16'
S 13°40'06" W 66.08'
S 13°40'06" W 215.06'
S 13°40'06" W 189.49'
S 30°31'34" W 75.54'
℄ OF EXISTING R/W S.R. 159
S 13°40'06" W 286.45'
238+95.41
92.66' LT.
239+07.81
87.85' LT.
239+53.54
133.14' LT.
S 10°57'41" W 151.42'
S 13°40'06" W 104.25'
S 13°40'06" W 58.76'
TMP
S12°26'29"E
63.53'
60-U
60-T
60-WL
60-S
60
RESIDENTIAL
MACHELE R. MCBEE
15, 17 & 27 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 397, PG. 546
14-01-08056.000
239+32.29
78.36' LT.
239+98.76
52.90' LT.
26.26'
S 76°19'54" E 103.83'
64.27'
N 13°06'45" E 57.06'
239+56.04
238+73.24
35.51' LT.
N 73°06'45" E 120.57'
℄ OF EXISTING R/W S.R. 180
N 73°06'45" E 241.38'
238+14.81, 4.52' RT. = ℄ R/W S.R. 207
141+26.00, 0.00' LT. = ℄ R/W S.R. 159
10+00.00, 0.00 LT. = ℄ R/W S.R. 180
77-WL
N 73°06'45" E 240.00'
240+20.18
36.92' RT.
N 82° 28' 10" E
238+50.95
28.97' RT.
238+66.45
26.42' RT.
238+37.55
39.71' RT.
238+55.12
58.69' RT.
238+18.26
64.76' RT.
238+23.67
50.84' RT.
℄ OF PROPOSED R/W & CONST. S.R. 180
BEGIN ACQUISITION
STA. 238+18.26
℄ S.R. 180
240.72'
N 73°06'45" E 173.74'
240+20.00
46.92' RT.
58-WL
58-T
58-U
58
N 73°06'45" E 167.13'
N 69°51'03" E 225.42'
238+74.42
79.53' RT.
238+50.00
85.00' RT.
N 50°19'54" W
59-WL
59-T
59-U
59
RESIDENTIAL
LYNN L. CARTEE
20 ST. RT. 180,
CHILLICOTHE, OHIO 45601
LOT NO. 4 OF HIGH
CREST ESTATES SUBDIVISION
O.R. 425, PG. 2188
14-01-08162.000
HIGH CREST ESTATES SUBDIVISION
P.B. 11, PG. 7
CONSTRUCTION LIMITS
RESIDENTIAL
STEVEN G. SANFORD &
MARY E. SANFORD
6490 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 3 OF HIGH
CREST ESTATES SUBDIVISION
VOL. 542, PG. 1033
14-01-08161.000
MATCHLINE STA. 139+50 - SEE SHEET 33/42
MATCHLINE STA. 240+50 - SEE SHEET 39/42
PT Sta. 10+48.14
(47)
AGRICULTURE
HERRON FARMS LIMITED
LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
P.N. 14-01-08090.000

EASEMENTS
7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94
8 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. D.B. 513, PG. 267
13 - 10' UTILITY EASEMENT P.B. 7, PG. 11
15 - 12' ROSS COUNTY WATERLINE EASEMENT
17 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 508, PG. 390
19 - 30' ROSS COUNTY WATERLINE EASEMENT O.R. 332, PG. 96

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.
2. ALL STATION AND OFFSETS ALONG S.R. 180 ARE BASED ON THE PROPOSED CENTERLINE.
3. SEE SHEET 41/42 FOR OVERLAP TABLES.

(K) - 238+63.26, 67.48' RT.
(L) - N43°45'29"E, 17.79'
(M) - N43°45'29"E, 17.17'
(N) - S 16°53'15" E 10.00'
(O) - 238+46.98, 49.90' RT.
(P) - 139+60.45, 105.10' RT.
(Q) - 139+97.08, 109.69' RT.
(R) - 140+29.21, 112.92' RT.

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

FOR S.R. 207
STA. 240+50.00

ROW BOUNDARY
STA. 235+00.00 TO

ROS-207-0.00

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

35 / 42
325
332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 159 ARE BASED ON THE PROPOSED CENTERLINE.
2. ALL STATION AND OFFSETS ALONG S.R. 180 ARE BASED ON THE PROPOSED CENTERLINE.
4. SEE SHEET 41/41 FOR OVERLAP TABLES.

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS

(47)
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
P.N. 14-01-08090.000

47-SH
47-U2
47-WL2
MATCHLINE STA. 143+50 - SEE SHEET 38/42
EX. TELEPHONE (RBO)
4" GAS (RBO)
PC Sta. 142+93.11
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159
CONSTRUCTION LIMITS
GRAVEL FIELD DRIVE
BEGIN WORK STA. 237+46.78 ℄ S.R. 180
POT Sta. 141+27.04
N 32° 46' 11" E
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159
N 1° 36' 34" E
PT Sta. 140+04.34
BEGIN ACQUISITION STA. 238+18.26 ℄ S.R. 180
POT Sta. 237+46.78
8" WATER (RBO)
BRACE LINE
4" GAS (RBO)
EX. UTILITY POLE (RBO)
EX. TELEPHONE (RBO)
6" WATER (RBO)
E.T.C.
℄ OF EXISTING R/W S.R. 180
℄ OF EXISTING R/W S.R. 159
N 82° 28' 10" E
EX. UTILITY POLE (RBO)
℄ OF PROPOSED R/W & CONST. S.R. 180
6" GAS (RBO)
GRAVEL RESIDENTIAL DRIVE
CONCRETE RESIDENTIAL DRIVE
6" WATER (DND)
CONSTRUCTION LIMITS
UNKNOWN SERVICE LINE LOCATION
POT Sta. 239+56.04
PT Sta. 240+48.14
MATCHLINE STA. 240+50 - SEE SHEET 40/42
ENCROACHMENT
POINT OF PERMISSIBLE ACCESS STA. 240+25.80 RESIDENTIAL DRIVE
1 STORY FRAME
CONST. LIMITS
POINT OF PERMISSIBLE ACCESS STA. 239+54.30 RESIDENTIAL DRIVE
MATCHLINE STA. 139+50 - SEE SHEET 34/42

(60) RESIDENTIAL
MACHELE R. MCBEE
15, 17 & 27 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 397, PG. 546
14-01-08056.000

(47)
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
P.N. 14-01-08090.000

(58) RESIDENTIAL
STEVEN G. SANFORD &
MARY E. SANFORD
6490 ST. RT. 159,
CHILLICOTHE, OHIO 45601
LOT NO. 3 OF HIGH
CREST ESTATES SUBDIVISION
VOL. 542, PG. 1033
14-01-08161.000

(59) RESIDENTIAL
LYNN L. CARTEE
20 ST. RT. 180,
CHILLICOTHE, OHIO 45601
LOT NO. 4 OF HIGH
CREST ESTATES SUBDIVISION
O.R. 425, PG. 2188
14-01-08162.000

HIGH CREST ESTATES SUBDIVISION
P.B. 11, PG. 7

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW TOPOGRAPHICAL FOR S.R. 159
STA. 139+50.00 TO STA. 143+50.00

ROS-207-0.00

36/42

326/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

47
AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
O.R. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
P.N. 14-01-08090.000

48
EXEMPT
ROSS COUNTY
PARK DISTRICT
ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 479, PG. 991
14-01-08282.000

50
AGRICULTURE
C. MITCHELL FIELDS, TRUSTEE
6759 ST. RT. 159,
CHILLICOTHE, OHIO 45601
VOL. 554, PG. 1042
14-01-08025.000

I - S 13°40'06" W 17.06'
J - 143+57.98, 43.68' RT.

49
AGRICULTURE
HINTON FAMILY
FARM, LLC.
ST. RT. 159,
CHILLICOTHE,
OHIO 45601
O.R. 500, PG. 2692
14-01-08034.000

51
RESIDENTIAL
MARK E. THOMAS
6618 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 489, PG. 936
14-01-08158.000

60
RESIDENTIAL
MACHELE R. MCBEE
15, 17 & 27 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 397, PG. 546
14-01-08056.000

61
RESIDENTIAL
STEVE B. ARLEDGE
37 ST. RT. 180, CHILLICOTHE, OHIO 45601
O.R. 527, PG. 36
14-01-08057.000

62
RESIDENTIAL
STEVE B. ARLEDGE
37 ST. RT. 180, CHILLICOTHE, OHIO 45601
O.R. 527, PG. 36
14-01-08058.000

64
RESIDENTIAL
A & R NEWMAN LEASING, LLC.
53 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 508, PG. 2463
14-01-08059.000

EASEMENTS
7 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. DRWG #0071-0066-94
19 - 30' ROSS COUNTY WATERLINE EASEMENT O.R. 332, PG. 96

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.

3. SEE SHEET 41/42 FOR OVERLAP TABLES FOR PARCELS 47, 48, & 60.

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW BOUNDARY FOR S.R. 159
STA. 143+50.00 TO STA. 146+62.39

ROS-207-0.00

37 / 42

327 / 332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

ABBREVIATIONS
DND - DO NOT DISTURB
TBR - TO BE REMOVED
RBO - TO BE RELOCATED BY OTHERS
EX. DRIVE TO BE REMOVED

NOTE:
1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.
2. ALL STATION AND OFFSETS ALONG S.R. 159 NORTH AND SOUTH ARE BASED ON THE PROPOSED CENTERLINES.
3. SEE SHEET 41/41 FOR OVERLAP TABLES.

(47) AGRICULTURE
HERRON FARMS LIMITED LIABILITY COMPANY
ST. RT. 159, US RT. 23,
CHILLICOTHE, OHIO 45601
VOL. 192, PG. 2161
14-01-08023.000
14-01-08024.000
14-01-08090.000
P.N. 14-01-08090.000

(48) EXEMPT
ROSS COUNTY
PARK DISTRICT
ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 479, PG. 991
14-01-08282.000

(50) AGRICULTURE
C. MITCHELL FIELDS, TRUSTEE
6759 ST. RT. 159,
CHILLICOTHE, OHIO 45601
VOL. 554, PG. 1042
14-01-08025.000

(49) AGRICULTURE
HINTON FAMILY
FARM, LLC.
ST. RT. 159,
CHILLICOTHE,
OHIO 45601
O.R. 500, PG. 2692
14-01-08034.000

(51) RESIDENTIAL
MARK E. THOMAS
6618 ST. RT. 159,
CHILLICOTHE, OHIO 45601
O.R. 489, PG. 936
14-01-08158.000

(60) RESIDENTIAL
MACHELE R. MCBEE
15, 17 & 27 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 397, PG. 546
14-01-08056.000

(61) RESIDENTIAL
STEVE B. ARLEDGE
37 ST. RT. 180, CHILLICOTHE, OHIO 45601
O.R. 527, PG. 36
14-01-08057.000

(62) RESIDENTIAL
STEVE B. ARLEDGE
37 ST. RT. 180, CHILLICOTHE, OHIO 45601
O.R. 527, PG. 36
14-01-08058.000

(64) RESIDENTIAL
A & R NEWMAN LEASING, LLC.
53 ST. RT. 180,
CHILLICOTHE, OHIO 45601
O.R. 508, PG. 2463
14-01-08059.000

143+78.79
118.11' LT.
144+02.07
1.41'
END AQUISITION
STA. 144+73.61
℄ S.R. 159
END WORK
STA. 144+53.49
℄ S.R. 159
PT Sta. 145+62.39
PRC Sta. 146+69.84
PT Sta. 148+68.45
N 13° 47' 18" E
N 13° 24' 32" E
℄ OF PROPOSED R/W & CONSTRUCTION S.R. 159
℄ OF EXISTING R/W S.R. 159
147+39.08
30.83 RT.
8.0'
33.4'
11.5'
E.C.
TMP.
MATCHLINE STA. 143+50 SEE SHEET 36/41

8" WATER (DND)
8" WATER (RBO)
4" GAS (DND)
EX. TELEPHONE (DND)
EX. PULL HOUSE (DND)
EX. POLES (DND)
EX. UTILITY POLES (DND)
CONCRETE APRON
6" WATER (DND)
GRAVEL RESIDENTIAL DRIVE
CONSTRUCTION LIMITS
2 STORY FRAME
1 STORY FRAME
MODULAR
SHED

47-U2 · 47-SH · 48-SH · 47-WL2 · 60-WL · 60-U · 60-T

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

R/W DESIGNER CSW
R/W REVIEWER RFM
PID NO. 93744
HORIZONTAL SCALE IN FEET 0 10 20 40

ROW TOPOGRAPHICAL MAP FOR S.R. 159
STA. 143+50.00 TO STA. 146+62.39

ROS-207-0.00

38/42
328/332

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NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.

2. ALL STATION AND OFFSETS ALONG S.R. 180 ARE BASED ON THE PROPOSED CENTERLINES.

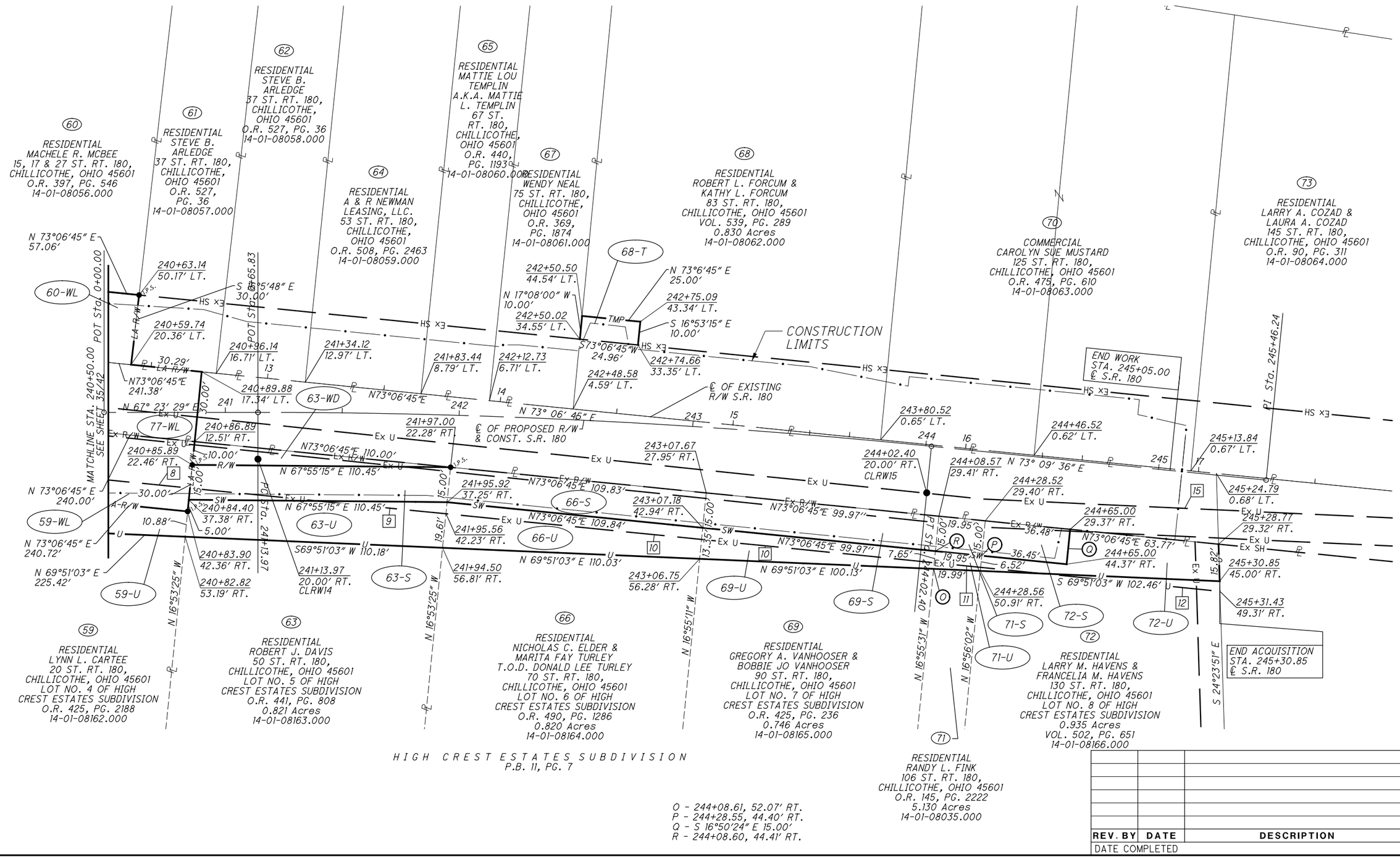
3. SEE SHEET 41/42 FOR OVERLAP TABLES FOR PARCELS 59, 63, 66, 69, 71 & 72.

ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

EASEMENTS

8 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. D.B. 513, PG. 267
9 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. D.B. 507, PG. 129
10 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 73, PG. 324
11 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 73, PG. 325
12 - 20' GAS EASEMENT COLUMBIA GAS OF OHIO, INC. VOL. 74, PG. 801
13 - 10' UTILITY EASEMENT P.B. 7, PG. 11
15 - 12' ROSS COUNTY WATERLINE EASEMENT VOL. 505, PG. 631



O - 244+08.61, 52.07' RT.
P - 244+28.55, 44.40' RT.
Q - S 16°50'24" E 15.00'
R - 244+08.60, 44.41' RT.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROS-207-0.00

ROW BOUNDARY FOR S.R. 180
STA. 240+50.00 TO STA. 246+00.00

39/42

329/332

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ROS-207-0.00

GREEN TOWNSHIP, ROSS COUNTY
SECTION 19, TOWNSHIP 9N, RANGE 21 W

EX. SIDEWALK TO BE REMOVED

NOTE:

1. ALL STATION AND OFFSETS ALONG S.R. 207 ARE BASED ON THE PROPOSED CENTERLINE.
2. ALL STATION AND OFFSETS ALONG S.R. 180 ARE BASED ON THE PROPOSED CENTERLINES.
3. SEE SHEET 38/38 FOR OVERLAP TABLES.
4. COULD NOT FIND EVIDENCE OF GAS SERVICES

RESIDENTIAL MACHELE R. MCBEE 15, 17 & 27 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 397, PG. 546 14-01-08056.000

RESIDENTIAL STEVE B. ARLEDGE 37 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 527, PG. 36 14-01-08057.000

RESIDENTIAL STEVE B. ARLEDGE 37 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 527, PG. 36 14-01-08058.000

RESIDENTIAL A & R NEWMAN LEASING, LLC. 53 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 508, PG. 2463 14-01-08059.000

RESIDENTIAL MATTIE LOU TEMPLIN A.K.A. MATTIE L. TEMPLIN 67 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 440, PG. 1193 14-01-08060.000

RESIDENTIAL WENDY NEAL 75 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 369, PG. 1874 14-01-08061.000

RESIDENTIAL ROBERT L. FORCUM & KATHY L. FORCUM 83 ST. RT. 180, CHILLICOTHE, OHIO 45601 VOL. 539, PG. 289 14-01-08062.000

COMMERCIAL CAROLYN SUE MUSTARD 125 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 475, PG. 610 14-01-08063.000

RESIDENTIAL LARRY A. COZAD & LAURA A. COZAD 145 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 90, PG. 311 14-01-08064.000

RESIDENTIAL LYNN L. CARTEE 20 ST. RT. 180, CHILLICOTHE, OHIO 45601 LOT NO. 4 OF HIGH CREST ESTATES SUBDIVISION O.R. 425, PG. 2188 14-01-08162.000

RESIDENTIAL ROBERT J. DAVIS 50 ST. RT. 180, CHILLICOTHE, OHIO 45601 LOT NO. 5 OF HIGH CREST ESTATES SUBDIVISION O.R. 441, PG. 808 14-01-08163.000

RESIDENTIAL NICHOLAS C. ELDER & MARITA FAY TURLEY T.O.D. DONALD LEE TURLEY 70 ST. RT. 180, CHILLICOTHE, OHIO 45601 LOT NO. 6 OF HIGH CREST ESTATES SUBDIVISION O.R. 490, PG. 1286 14-01-08164.000

RESIDENTIAL GREGORY A. VANHOOSER & BOBBIE JO VANHOOSER 90 ST. RT. 180, CHILLICOTHE, OHIO 45601 LOT NO. 7 OF HIGH CREST ESTATES SUBDIVISION O.R. 425, PG. 236 14-01-08165.000

RESIDENTIAL RANDY L. FINK 106 ST. RT. 180, CHILLICOTHE, OHIO 45601 O.R. 145, PG. 2222 14-01-08035.000

RESIDENTIAL LARRY M. HAVENS & FRANCELIA M. HAVENS 130 ST. RT. 180, CHILLICOTHE, OHIO 45601 LOT NO. 8 OF HIGH CREST ESTATES SUBDIVISION VOL. 502, PG. 651 14-01-08166.000

HIGH CREST ESTATES SUBDIVISION P.B. 11, PG. 7

HIGH CREST ESTATES SUBDIVISION P.B. 11, PG. 7

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

ROW TOPOGRAPHICAL FOR S.R. 180
STA. 240+50.00 TO STA. 246+00.00

ROS-207-0.00

40 / 42

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PARCEL 44 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	44-WL	44-WD	WATER LINE UTILITY EASEMENT	PHONE LINE UTILITY EASEMENT	FIBER OPTIC UTILITY EASEMENT	ELEC. LINE UTILITY EASEMENT
44-WL	PERMANENT	3.490			0.398		0.256	
44-WD	PERMANENT	0.102			0.198			0.023
WATER LINE UTILITY EASEMENT	EXISTING	0.654	0.398	0.198		0.222	0.006	0.037
FIBER OPTIC UTILITY EASEMENT	EXISTING	0.591	0.256		0.006			
ELECTRIC LINE UTILITY EASEMENT	EXISTING	1.356	0.119	0.023	0.037	0.012		

ALL AREAS IN ACRES

PARCEL 46 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	44-WL	44-WD	WATER LINE UTILITY EASEMENT	PHONE LINE UTILITY EASEMENT	FIBER OPTIC UTILITY EASEMENT	ELEC. LINE UTILITY EASEMENT
46-WL	PERMANENT	3.044			0.359	0.170	0.119	
46-U	PERMANENT	0.102			0.198	0.110		0.023
WATER LINE UTILITY EASEMENT	EXISTING	0.654	0.359	0.198		0.222	0.006	0.037
PHONE LINE UTILITY EASEMENT	EXISTING	0.287	0.170	0.110	0.222			0.012
FIBER OPTIC UTILITY EASEMENT	EXISTING	0.591	0.119		0.006			
ELECTRIC LINE UTILITY EASEMENT	EXISTING	1.356	0.119	0.023	0.037	0.012		

ALL AREAS IN ACRES

PARCEL 47 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	47	47-SH	47-WL1	47-WL2	47-U1	47-U2	47-T1	47-T2	47-T3	STANDARD HIGHWAY EASEMENT	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT	ELEC. LINE UTILITY EASEMENT
47	PERMANENT	15.575						0.045				0.265	0.302	0.490	
47-SH	PERMANENT	4.701												0.164	
47-WL1	PERMANENT	4.639												0.171	
47-WL2	PERMANENT	0.244											0.026		
47-U1	TEMPORARY	0.049											0.045		
47-U2	TEMPORARY	0.049											0.045		
47-T1	TEMPORARY	0.049											0.045		
47-T2	TEMPORARY	0.049											0.045		
47-T3	TEMPORARY	0.049											0.045		
STANDARD HIGHWAY EASEMENT	EXISTING	UNKNOWN	0.458									0.021			
WATER LINE UTILITY EASEMENT	EXISTING	0.286	0.265					0.045					0.138		
GAS LINE UTILITY EASEMENT	EXISTING	UNKNOWN	0.302			0.026	0.045					0.138			
ELECTRIC LINE UTILITY EASEMENT	EXISTING	UNKNOWN	0.490	0.164	0.171										

ALL AREAS IN ACRES

PARCEL 52 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	52-T	WATER LINE UTILITY EASEMENT
52-T	TEMPORARY	0.017		0.0126
WATER LINE UTILITY EASEMENT	EXISTING	0.045	0.0126	

ALL AREAS IN ACRES

PARCEL 53 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	53-T	WATER LINE UTILITY EASEMENT
53-T	TEMPORARY	0.034		0.011
WATER LINE UTILITY EASEMENT	EXISTING	0.031	0.011	

ALL AREAS IN ACRES

PARCEL 54 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	54-T	WATER LINE UTILITY EASEMENT
54-T	TEMPORARY	0.029		0.002
WATER LINE UTILITY EASEMENT	EXISTING	0.014	0.002	

ALL AREAS IN ACRES

PARCEL 48 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	48-CH	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT
48-CH	PERMANENT	0.070		0.039	0.057
WATER LINE UTILITY EASEMENT	EXISTING	0.053	0.039		0.026
GAS LINE UTILITY EASEMENT	EXISTING	0.057	0.057	0.026	

ALL AREAS IN ACRES

PARCEL 66 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	66-S	66-U	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT
66-S	PERMANENT	0.038			0.005	0.032
66-U	PERMANENT	0.042				0.013
WATER LINE UTILITY EASEMENT	EXISTING	0.005	0.005			
GAS LINE UTILITY EASEMENT	EXISTING	0.045	0.032	0.013		

ALL AREAS IN ACRES

PARCEL 72 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	72-S	72-U	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT	UTILITY EASEMENT
72-S	PERMANENT	0.013			0.002	0.013	
72-U	PERMANENT	0.031				0.030	0.004
WATER LINE UTILITY EASEMENT	EXISTING	0.002	0.002				
GAS LINE UTILITY EASEMENT	EXISTING	0.047	0.013	0.030			
UTILITY EASEMENT	EXISTING	0.111		0.004			

ALL AREAS IN ACRES

PARCEL 58 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	58-WL	58-U	58-T	WATER LINE UTILITY EASEMENT	UTILITY EASEMENT
58-WL	PERMANENT	0.011				0.002	0.005
58-U	PERMANENT	0.121			0.065	0.058	0.007
58-T	TEMPORARY	0.065		0.065		0.049	0.003
WATER LINE UTILITY EASEMENT	EXISTING	0.059	0.002	0.058	0.049		
UTILITY EASEMENT	EXISTING	0.104	0.005	0.007	0.003		

ALL AREAS IN ACRES

PARCEL 59 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	59-WL	59-U	59-T	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT	UTILITY EASEMENT
59-WL	PERMANENT	0.171				0.015	0.115	
59-U	PERMANENT	0.094			0.039			
59-T	TEMPORARY	0.039		0.039				
WATER LINE UTILITY EASEMENT	EXISTING	0.015	0.015					
GAS LINE UTILITY EASEMENT	EXISTING	0.115	0.115					
UTILITY EASEMENT	EXISTING	0.096	0.007	0.006	0.003			

ALL AREAS IN ACRES

PARCEL 57 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	57-U	57-T	WATER LINE UTILITY EASEMENT
57-U	PERMANENT	0.052		0.035	0.018
57-T	TEMPORARY	0.034	0.035		0.018
WATER LINE UTILITY EASEMENT	EXISTING	0.018	0.018	0.018	

ALL AREAS IN ACRES

PARCEL 60 AREA OF OVERLAP

PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	60-WL	60-U	60-T
60-WL	PERMANENT	0.520		0.019	
60-U	PERMANENT	0.049			0.030
60-T	TEMPORARY	0.095	0.019	0.030	

ALL AREAS IN ACRES

HORIZONTAL SCALE IN FEET

0 0 0 0

PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

RIGHT OF WAY DETAIL OVERLAP TABLES

ROS-207-0.00

41 / 42

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED

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PARCEL 55 AREA OF OVERLAP				
PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	55-T	WATER LINE UTILITY EASEMENT
55-T	TEMPORARY	0.073		0.005
WATER LINE UTILITY EASEMENT	EXISTING	0.005	0.005	
ALL AREAS IN ACRES				

PARCEL 56 AREA OF OVERLAP					
PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	56-U	56-T	WATER LINE UTILITY EASEMENT
56-U	PERMANENT	0.009		0.006	0.002
56-T	TEMPORARY	0.006	0.006		0.002
WATER LINE UTILITY EASEMENT	EXISTING	0.002	0.002	0.002	
ALL AREAS IN ACRES					

PARCEL 63 AREA OF OVERLAP							
PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	63-WD	63-S	63-U	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT
63-WD	PERMANENT	0.013				0.004	0.009
63-S	PERMANENT	0.038				0.001	0.034
63-U	PERMANENT	0.045					0.003
WATER LINE UTILITY EASEMENT	EXISTING	0.015	0.004	0.001			
GAS LINE UTILITY EASEMENT	EXISTING	0.046	0.009	0.034	0.003		
ALL AREAS IN ACRES							

PARCEL 69 AREA OF OVERLAP						
PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	69-S	69-U	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT
69-S	PERMANENT	0.034			0.005	0.029
69-U	PERMANENT	0.024				0.012
WATER LINE UTILITY EASEMENT	EXISTING	0.006	0.005			
GAS LINE UTILITY EASEMENT	EXISTING	0.040	0.029	0.012		
ALL AREAS IN ACRES						

PARCEL 71 AREA OF OVERLAP						
PARCEL NO.	EASEMENT REQUIRED	TOTAL AREA	71-S	71-U	WATER LINE UTILITY EASEMENT	GAS LINE UTILITY EASEMENT
71-S	PERMANENT	0.007			0.001	0.006
71-U	PERMANENT	0.003				0.002
WATER LINE UTILITY EASEMENT	EXISTING	0.001	0.001			
GAS LINE UTILITY EASEMENT	EXISTING	0.008	0.006	0.002		
ALL AREAS IN ACRES						

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
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PID NO. 93744

R/W DESIGNER CSW
R/W REVIEWER RFM

RIGHT OF WAY DETAIL
OVERLAP TABLES

ROS-207-0.00

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332

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PROJECT DESCRIPTION

THE PROJECT CONSISTS OF EXTENDING S.R. 207 FROM THE EXISTING INTERCHANGE AT U.S. 23 TO THE EXISITNG INTERSECTION OF S.R. 159 AND S.R. 180.

HISTORIC RECORDS

HISTORICAL BORING RECORDS WERE AVAILABLE FOR REVIEW FROM ROS-207-0.00, PID 18492. 3 BORINGS DRILLED FOR THE EMBANKMENTS THAT WERE CONSTRUCTED ALONG HOSPITAL RD AND SR 207 ARE INCLUDED IN THIS SOIL PROFILE. BORING B-016-1-00 WAS DRILLED AT THE CURRENT INTERSECTION OF SR 207 AND HOSPITAL RD AND ENCOUNTERED MEDIUM STIFF SILTY CLAY (A-6b) TO A DEPTH OF 3 FEET UNDERLAIN BY 5 FEET OF MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND 8.5 FEET OF VERY STIFF TO HARD SANDY SILT (A-4b). BORINGS B-028-1-00 AND B-029-1-00 WERE BOTH DRILLED ALONG THE CENTERLINE OF HOSPITAL RD. B-028-1-00 ENCOUNTERED MEDIUM STIFF TO STIFF SILTY CLAY TO A DEPTH OF 3.5 FEET UNDERLAIN BY 10 FEET OF LOOSE TO MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) UNDERLAIN BY 10 FEET OF STIFF SILT (A-4b) AND SANDY SILT. B-029-1-00 ENCOUNTERED SOFT SILTY CLAY (A-6b) TO A DEPTH OF 3 FEET UNDERLAIN BY 10 FEET OF MEDIUM STIFF TO VERY STIFF SANDY SILT (A-4a) AND 15.5 FEET OF VERY STIFF TO HARD SILT AND SILTY CLAY (A-4b AND A-6b).

GEOLOGY

THE PROJECT AREA IS LOCATED IN THE COLUMBUS LOWLAND PHYSIOGRAPHIC PROVINCE WHICH IS PART OF THE CENTRAL LOWLAND GLACIAL TILL PLAINS. THIS AREA IS CHARACTERIZED AS MODERATELY LOW RELIEF, LOW LYING LAND WHICH IS SURROUNDED BY RELATIVE UPLANDS. THE LAND HAS A BROAD REGIONAL SLOPE TOWARD THE SCIOTO RIVER. WITHIN THE PROJECT VICINITY THE ALLEGHENY ESCARPMENT IS LACKING DUE TO THE PRE-GLACIAL TEAYS RIVER VALLEY WHICH DISSECTED IT.

ODNR GLACIAL GEOLOGY OF ROSS COUNTY INDICATES THAT THE BROAD SCIOTO RIVER VALLEY IS PREDOMINATELY COMPRISED OF GLACIALLY DEPOSITED OUTWASH OVERLAIN BY ALLUVIAL DEPOSITS, ESPECIALLY ADJACENT TO THE SCIOTO RIVER AND KINNIKINNICK CREEK. ALONG THE EASTERN EDGE OF THE SCIOTO RIVER VALLEY IS THE WISCONSINAN AGED REESVILLE MORAINE WHICH IS AN END MORAINE THAT IS HIGHLY DISSECTED. THE MAJORITY OF THE WESTERN AND CENTRAL PORTIONS OF THE ALIGNMENT WITHIN THE PROJECT AREA IS COMPRISED OF REESVILLE MORAINE DEPOSITS. THE EASTERN PORTION OF THE ALIGNMENT RUNNING ALONG KINNIKINNICK CREEK IS COMPRISED PREDOMINATELY OF ALLUVIALLY DEPOSITED MATERIALS.

THE GROUNDWATER RESOURCES OF ROSS COUNTY INDICATE THAT THE MAJORITY OF THE PROJECT LIES WITHIN AN AREA OF REGIONALLY EXTENSIVE, THICK PERMEABLE SAND AND GRAVEL DEPOSITS WHICH MAY YIELD 100 TO 500 GALLONS PER MINUTE (GPM), EXTENDING TO THE INTERSECTION OF SR159/180 WHILE THE AREA TO THE EAST OF THE INTERSECTION IS MAPPED AS BEING RELATIVELY THICK (UP TO 110 FEET THICK) CLAY DEPOSITS INTERBEDDED WITH WATER BEARING SAND AND GRAVEL LAYERS WITH POTENTIAL YIELDS OF 10 TO 25 GPM. THE AREA SOUTH OF THE SR159/180 INTERSECTION IS MAPPED AS THICK DEPOSITS (UP TO 250 FEET THICK) OF SILT AND CLAY INTERBEDDED WITH LENSES OF SAND AND GRAVEL WITH POTENTIAL YIELDS OF 3 TO 10 GPM.
THE ODNR BEDROCK TOPOGRAPHY MAP INDICATES THAT BEDROCK IS GENERALLY ENCOUNTERED OVER 150 FEET BELOW GROUND SURFACE, AROUND ELEVATION 500 FEET. AT THE EASTERN TERMINUS OF THE PROJECT THE BEDROCK ELEVATION RISES TO THE NORTH. ODNR BEDROCK RECONNAISSANCE FOR THE PROJECT AREA SHOWS THE ENTIRE AREA UNDERLAIN BY DEVONIAN AGED OHIO AND OLENTANGY SHALES UNDIVIDED.

RECONNAISSANCE

FIELD RECONNAISANCE WAS CONDUCTED BY ANDREW JALBRZIKOWSKI FROM THE ODOT OFFICE OF GEOTECHNICAL ENGINEERING ON 4 SEPARATE OCCASIONS BETWEEN SEPTEMBER AND DECEMBER 2017. EXISTING PAVEMENT CONDITIONS ALONG SR 207, SR 159, SR 180, AND HOSPITAL RD WERE IN GENERALLY GOOD CONDITION WITH SR 159 BEING RESURFACED RECENTLY. EMBANKMENT SLOPES ALONG HOSPITAL RD WERE ALSO IN GOOD CONDITION WITH ANY HUMMOCKY GROUND BEING LOCALIZED. A LARGE MAJORITY OF THE PROJECT WILL CROSS AGRICULTURAL LAND WITH LIMITED WOODED AREAS, WITH RESIDENTIAL LAND AND A COMMERCIAL PROPERTY ALONG SR 159 & SR 180. ALONG HOSPITAL RD, A PARK & RIDE FACILITY AND A COUNTY MAINTENANCE OUTPOST ARE WITHIN THE PROJECT LIMITS.

SUBSURFACE EXPLORATION

THE SUBSURFACE EXPLORATION WAS COMPLETED THROUGH MULTIPLE PHASES WITH MULTIPLE DRILL RIGS. BORINGS WERE COMPLETED UTILIZING A TRUCK MOUNTED CME 55, TRACK MOUNTED CME 850, AND TRACK MOUNTED ACKER XLS ROTARY DRILL RIGS. THE CME 55 UTILIZED 3 1/4-INCH I.D. HOLLOW STEM AUGERS, THE CME 850 UTILIZED 3 3/4-INCH I.D. HOLLOW STEM AUGERS AND THE ACKER UTILIZED 2 1/4-INCH I.D. HOLLOW STEM AUGERS TO ADVANCE THE BORINGS THROUGH THE SOIL. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT CONTINUOUS INTERVALS WHERE PROPOSED SUBGRADE WAS ANTICIPATED AND AT 2.5-FOOT AND 5-FOOT INTERVALS ELSEWHERE FOR THE FULL DEPTH OF THE BORINGS. THE HAMMER SYSTEMS USED WERE LAST CALIBRATED JUNE 1, 2017, AND THE AVERAGE DRILL ROD ENERGY RATIO (ER) OF 77% FOR THE CME 55, 81% FOR THE CME 850 AND 89% FOR THE ACKER XLS.

ON SEPTEMBER 27 AND 28, 2017, 2 BORINGS (B-022-0-17 AND B-030-1-17) WERE DRILLED WITH THE CME 55. THE PURPOSE OF THIS PHASE WAS TO INSTALL PIEZOMETERS TO DETERMINE IF BIORETENTION CELLS COULD BE UTILIZED ON THE PROJECT.
FROM NOVEMBER 16 TO DECEMBER 6, 2017, THE PRIMARY PHASE OF 14 BORINGS (B-001-0-17 THROUGH B-005-0-17 PLUS OFFSET BORINGS) WERE COMPLETED FOR PROPOSED MAINLINE UTILIZING EITHER THE CME 55 OR THE ACKER XLS. UNDISTURBED SAMPLES WERE OBTAINED VIA OFFSET BORINGS IN ACCORDANCE WITH AASHTO T207.

ON JUNE 18, 2018 AN ADDITIONAL PIEZOMETER WAS INSTALLED TO DETERMINE IF BIORETENTION CELLS COULD BE UTILIZED ON THE PROJECT UTILIZING THE CME 850.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH.	CLASSIFIED VISUAL
	GRAVEL AND/OR STONE FRAGMENTS	A-1-a	6	3
	GRAVEL AND/OR STONE FRAGS. WITH SAND	A-1-b	34	40
	COARSE AND FINE SAND	A-3a	7	9
	GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT	A-2-4	15	18
	GR. AND/OR ST. FRAGS. WITH SAND, SILT, & CLAY	A-2-6	3	4
	SANDY SILT	A-4a	40	34
	SILT	A-4b	2	1
	SILT AND CLAY	A-6a	23	20
	SILTY CLAY	A-6b	12	8
	CLAY	A-7-6	4	3
		TOTAL	146	140
	BOULDERS	VISUAL		
XXXX	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		

BORING LOCATION - PLAN VIEW.

HISTORIC 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/Y/D" NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.

X/Y/Z NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y= NUMBER OF BLOWS FOR SECOND 6 INCHES.
Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.

LOI INDICATES ORGANIC CONTENT BY LOSS ON IGNITION (AASHTO T267).

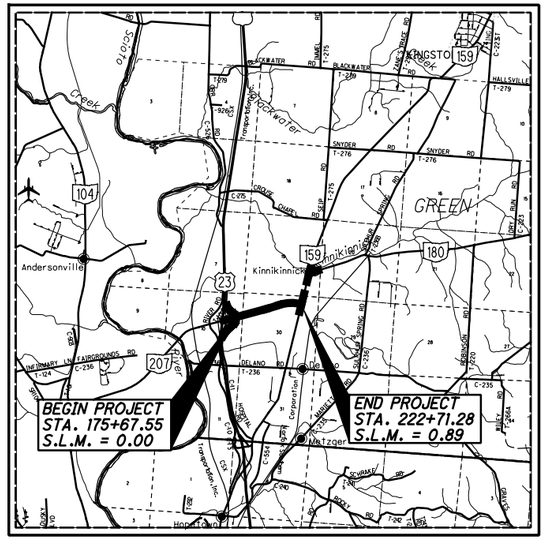
W— INDICATES FREE WATER ELEVATION.

▼— INDICATES FREE WATER ELEVATION.

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.

* INDICATES A SAMPLE TAKEN WITHIN 3 FT OF PROPOSED GRADE.

SS INDICATES A SPLIT SPOON SAMPLE.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
	12"	3" 2.0 mm	0.42 mm	0.074 mm	0.005 mm	
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE		

NP INDICATES A NON-PLASTIC SAMPLE.

N INDICATES STANDARD PENETRATION RESISTANCE.

SO4 INDICATES SULFATE CONTENT IN SOIL.

	HISTORIC BORING DESCRIPTIONS	ODOT CLASS	CLASSIFIED MECH.	CLASSIFIED VISUAL
	GRAVEL AND/OR STONE FRAGS. WITH SAND	A-1-b	-	2
	GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT	A-2-4	-	5
	SANDY SILT	A-4a	-	6
	SILT	A-4b	2	3
	SILT AND CLAY	A-6a	-	3
		TOTAL	2	19

SUBSURFACE EXPLORATION (CONT.)

FROM AUGUST 21 THROUGH 27, 2018, ADDITIONAL MAINLINE BORINGS, B-033-0-18 THROUGH B-048-0-18, WERE COMPLETED UTILIZING THE CME 850. OFFSET LOCATIONS WERE EXPLORED THROUGH CONE PENETRATION TEST (CPT) SOUNDINGS. ALL SOUNDINGS WERE COMPLETED ON AUGUST 22 AND 23, 2018 WITH AN A. P. VAN DEN BERG UNIT MOUNTED ON A HYSON 23-TON CRAWLER IN ACCORDANCE WITH ASTM D-5778. SOUNDINGS WERE TERMINATED WHEN TARGET DEPTH WAS MET.

RECON. - AMJ 09/17 - 12/17
DRILLING - KAM 09/27/17 - 12/06/17
AJ 06/18/18
PPP 08/21/18
AJC 08/23/18 - 08/27/18
DRAWN - AJC 01/09/19
REVIEWED - SAT 01/09/19

DESIGN AGENCY
OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF GEOTECHNICAL ENGINEERING
1980 W. BROAD ST. COLUMBUS, OH 43223

PID NO. 93744

SOIL PROFILE

ROS-207-0.00

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EXPLORATION FINDINGS

THE MAJORITY OF SOIL ENCOUNTERED DURING THE EXPLORATION WAS NON-COHESIVE WITH THE PREDOMINANT SOIL BEING GRAVEL AND/OR STONE FRAGMENTS WITH SAND (A-1-b). THE PREDOMINANT COHESIVE SOILS WERE LOW PLASTICITY SANDY SILT (A-4a) OR SILT AND CLAY (A-6a).

ALONG EXISTING SR 207, BORING B-001-0-17 ENCOUNTERED 10 INCHES OF ASPHALT WITH THE SUBGRADE CONSISTING OF MEDIUM DENSE GRAVEL WITH SAND, SILT, AND CLAY (A-2-6). ALONG PROPOSED SR 207 VARIABLE TOPSOIL THICKNESS WAS ENCOUNTERED WITHIN THE BORINGS RANGING FROM 3 TO 20 INCHES IN THICKNESS. BENEATH THE TOPSOIL A COHESIVE CRUST, TYPICALLY RANGING FROM 3.5 TO 15 FEET IN THICKNESS, WAS ENCOUNTERED TYPICALLY CONSISTING OF SANDY SILT (A-4a) OR SILT AND CLAY (A-6b) WHICH WAS STIFF TO HARD IN CONSISTENCY AND DAMP IN CONDITION. ORGANIC SOILS RANGING FROM SLIGHTLY (3.4%) TO MODERATELY ORGANIC (9.4%) WERE ENCOUNTERED THROUGHOUT THE BORINGS. UNDERLYING THE COHESIVE CRUST THE BORING TYPICALLY ENCOUNTERED NON-COHESIVE SOILS CONSISTING OF GRAVEL (A-1-a), GRAVEL WITH SAND (A-1-b), GRAVEL WITH SAND AND SILT (A-2-4), GRAVEL WITH SAND, SILT, AND CLAY (A-2-6), COARSE AND FINE SAND (A-3a), SANDY SILT (A-4a). THESE SOILS RANGED FROM VERY LOOSE TO MEDIUM DENSE IN COMPACTNESS AND WERE DAMP TO WET IN CONDITION.

THE CPT SOUNDING C-002-3-17, PERFORMED DIRECTLY ADJACENT TO B-002-0-17 (STA. 176+57) AT THE TOE OF THE EXISTING EMBANKMENT FOR THE SR 207/HOSPITAL RD INTERSECTION, ENCOUNTERED TIP RESISTANCES (LESS THAN 50 TSF) AND SLEEVE FRICTION (LESS THAN 2.5 TSF) VALUES FOR THE FIRST 10 FEET CONSISTENT WITH B-002-0-17. BELOW 10 FEET, TIP RESISTANCES INCREASED WITH DEPTH TO A MAXIMUM VALUE OF NEARLY 600 TSF AT 26.5 FEET. SOIL BEHAVIOR TYPES WERE ALSO IN AGREEMENT WITH B-002-0-17.

SOUNDINGS C-034-1 AND C-034-2 WERE COMPLETED AS OFFSETS FOR B-034-0 IN SECTION ALONG A PROPOSED CULVERT. THESE SOUNDS INDICATED A GENERAL INCREASE WITHIN BOTH THE TIP RESISTANCE AND SLEEVE FRICTION WITH DEPTH. C-036-1 AND C-036-2 WERE COMPLETED AS AN OFFSET TO B-036-0 AT A FILL TRANSITION. THESE SOUNDINGS INDICATED HIGHER TIP RESISTANCE AND SLEEVE FRICTION BETWEEN 5 AND 10 FEET BELOW WHICH BOTH DECREASE SIGNIFICANTLY. C-038-1 AND C-038-2 WERE COMPLETED AT PROPOSED DRIVEWAY LOCATIONS. THESE SOUNDS INDICATED A GENERAL INCREASE WITHIN BOTH THE TIP RESISTANCE AND SLEEVE FRICTION WITH DEPTH. C-040-1 AND C-040-2 SOUNDS INDICATED A GENERAL INCREASE WITHIN BOTH THE TIP RESISTANCE AND SLEEVE FRICTION WITH DEPTH.

ALONG EXISTING SR 159, SOUTH OF THE PROPOSED ROUNDABOUT, THE SUBGRADE CONSISTED OF VERY SOFT TO VERY STIFF COHESIVE SOILS (A-4a, A-6a). WITHIN THE PROPOSED ROUNDABOUT THE BORINGS ENCOUNTERED PREDOMINATELY NON-COHESIVE SOILS (A-1-a, A-1-b, A-3a, A-4a) WHICH WERE VERY LOOSE TO MEDIUM DENSE IN COMPACTNESS. NORTH OF THE ROUNDABOUT ALONG SR 159 THE BORINGS THE BORINGS FIRST ENCOUNTERED DEEP TOPSOIL (20 INCHES) AND SILT EXTENDING TO ELEVATION 683.3 FEET BENEATH WHICH COHESIVE SOILS (A-6a, A-6b) WERE ENCOUNTERED IN MEDIUM STIFF CONSISTENCY. THE BORINGS WERE TERMINATED IN NON-COHESIVE (A-1-b, A-2-4) SOILS.

ALONG SR 180, BENEATH THE ASPHALT, LOOSE TO DENSE GRAVEL AND STONE FRAGMENTS WITH VARYING AMOUNTS OF SAND AND SILT WERE ENCOUNTERED WITHIN THE PROPOSED SUBGRADE. IN BORINGS DRILLED FOR THE PROPOSED CULVERT AT APPROXIMATELY STA. 238+50 (B-019 SERIES), ALL 3 BORINGS ENCOUNTERED MODERATELY ORGANIC, MEDIUM STIFF TO STIFF CLAY WITH VARYING AMOUNTS OF SILT (A-6a, A-7-6), UNDERLAIN AT APPROXIMATELY ELEVATION 658 FEET BY LOOSE TO MEDIUM DENSE GRAVEL WITH VARYING AMOUNTS OF STONE FRAGMENTS AND SAND (A-1-a, A-1-b). BOTH BORINGS DRILLED NEAR THE INLET AND OUTLET ENCOUNTERED HEAVING SANDS.

ALONG HOSPITAL RD, THE SUBGRADE PRIMARILY CONSISTED OF STIFF TO HARD SANDY SILT (A-4a) WITH OCCASIONAL LAYERS OF STONE FRAGMENTS WITH SAND AND SILT (A-2-4) OR SILT AND CLAY (A-6a). THE EXISTING EMBANKMENT ALSO CONSISTED OF VERY STIFF TO HARD SANDY SILT (A-4a). NEAR THE EXISTING EMBANKMENT FOUNDATION, DENSE STONE FRAGMENTS WITH SAND AND SILT (A-2-4) WAS ENCOUNTERED UNDERLAIN BY HARD SANDY SILT. THE FINDINGS WERE CONSISTENT WITH HISTORIC BORING C-29 (WILL BE RENAMED WHEN PRESENTED ON SOIL PROFILE). BORING B-025-1-17 (STA. 90+99, 82' RT) WAS DRILLED ADJACENT TO THE TOE OF THE HIGHEST PROPOSED SIDEHILL EMBANKMENT AND ENCOUNTERED 8 FEET OF VERY STIFF SANDY SILT (A-4a) UNDERLAIN BY A 3-FOOT LAYER OF LOOSE GRAVEL WITH SAND (A-1-b) AND 4.5 FEET OF VERY STIFF SANDY SILT (A-4a). CPT SOUNDING C-025-2-17 WAS DRILLED ADJACENT TO B-025-1-17 AND ENCOUNTERED TIP RESISTANCES LESS THAN 25 TSF AND SLEEVE FRICTION VALUES LESS THAN 1 TSF FOR THE FIRST 8 FEET, WHERE TIP RESISTANCES AND SLEEVE FRICTION BEGAN TO GENERALLY INCREASE WITH DEPTH TO A MAXIMUM TIP RESISTANCE VALUE OF 600 TSF AT 17 FEET.

STATIC AND/OR FREE WATER ELEVATIONS WERE NOTED IN 22 OF 47 BORINGS AND GROUNDWATER WAS NOTED IN ALL CPT SOUNDINGS. ALONG PROPOSED MAINLINE FREE WATER WAS NOTED BETWEEN ELEVATION 674.8 AND 679.7 FEET WITH WATER AT COMPLETION RANGING FROM ELEVATION 675.3 AND 679.2 FEET. B-008-1-17 HAD A PIEZOMETER INSTALLED WITH A LONG TERM READING OF ELEVATION 677.8 FEET. B-036 ENCOUNTERED HEAVING SANDS BELOW ELEVATION 674.8 AND B-037 ENCOUNTERED HEAVING SANDS BELOW ELEVATION 674.3 FEET. ALONG HOSPITAL RD. FREE WATER AND STATIC WATER WAS REPORTED BETWEEN ELEVATION 676.1 AND 684.2 FEET. ALONG SR 180, INCLUDING AT THE ROUNDABOUT, FREE WATER WAS NOTED BETWEEN ELEVATION 653.8 AND 655.9 FEET AND AT COMPLETION WATER WAS NOTED BETWEEN ELEVATION 652.4 AND 655.9 FEET.

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 JULY 2017.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

INDEX OF SHEETS

SUMMARY OF SOIL TEST DATA, SHEETS 3 - 6.

LOCATION FROM STA.	TO STA.	PLAN VIEW SHEET	PROFILE SHEET	CROSS-SECTION SHEET	CUT MAX.		FILL EMB. MAX.	
S.R. 207								
171+00	183+50	7	7	17	6	FT	15	FT
183+50	197+50	8	8	17 & 18	3	FT	6	FT
197+50	211+50	9	9	18	2	FT	9	FT
211+50	222+71.28	10	10	18	-	FT	5	FT
HOSPITAL DRIVE								
78+46	92+50	11	11	19	4	FT	24	FT
92+50	104+48	12	12	-	6	FT	17	FT
S.R. 159								
110+35	122+50	13	13	-	3	FT	10	FT
122+50	136+50	14	14	-	4	FT	4	FT
136+50	144+53.49	15	15	20	4	FT	10	FT
S.R. 180								
237+46.78	245+05	16	16	-	4	FT	2	FT
CULVERT								
199+50	200+50	23	-	23	-	FT	9	FT

CONSOLIDATION TEST RESULTS , SHEET 21 - 22.

BORING LOG, SHEET 24.

CPT SOUNDINGS, SHEET 25.

DRAWN AJC | CHECKED SAT

SOIL PROFILE GEOTECHNICAL NOTES (CONT.)

ROS-207-0.00

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SUMMARY OF SOIL TEST DATA
S.R. 207

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-17	1.50	3.00	SS-1A	13	78	-	55	6	7	20	12	27	16	11	18	A-2-6 (0) *	880
STA. 172+50, 34' RT.	3.00	4.50	SS-2A	22	100	-	64	6	6	14	10	29	16	13	16	A-2-6 (0)	510
LATITUDE = 39.416473	4.50	6.00	SS-3A	19	89	-				SAME AS SS-2A					13	A-2-6 (VISUAL)	-
LONGITUDE = -82.973328	6.00	7.50	SS-4A	32	89	-				SAME AS SS-2A					14	A-2-6 (VISUAL)	-
	8.50	10.00	SS-5A	28	100	-				SAME AS SS-2A					16	A-2-6 (VISUAL)	-
B-002-0-17	1.50	3.00	SS-1A	13	78	3.50	27	8	13	27	25	30	16	14	16	A-6a (5)	-
STA. 176+57, 1' LT.	3.50	5.00	SS-2A	22	100	3.00				SAME AS SS-1A					17	A-6a (VISUAL)	-
LATITUDE = 39.416859	6.00	6.50	SS-3A	18	100	2.50				SAME AS SS-1A					14	A-6a (VISUAL)	-
LONGITUDE = -82.971972	6.50	7.50	SS-3B			2.50	27	8	13	27	25	30	16	14	12	A-6a (5)	-
	8.50	10.00	SS-4A	19	100	2.50				SAME AS SS-3B					13	A-6a (VISUAL)	-
	11.00	12.50	SS-5A	70	44	3.50				SAME AS SS-3B					13	A-6a (VISUAL)	-
	13.50	15.00	SS-6A	55	78	4.50	26	10	18	31	15	18	13	5	9	A-4a (2)	-
B-002-1-17	1.50	3.00	SS-1A	13	78	2.50	25	4	11	27	33	41	17	24	22	A-7-6 (11) *	-
STA. 176+48, 86' LT.	3.50	5.00	SS-2A	25	100	3.00				SAME AS SS-1A					13	A-7-6 (VISUAL) *	-
LATITUDE = 39.417078	6.00	7.50	SS-3A	31	100	3.50	32	12	14	26	16	22	15	7	15	A-4a (1)	-
LONGITUDE = -82.972083	8.50	10.00	SS-4A	10	22	2.00				SAME AS SS-3A					12	A-4a (VISUAL)	-
	11.00	12.50	SS-5A	30	11	-		MEDIUM DENSE, BROWN, COARSE AND FINE SAND							15	A-3a (VISUAL)	-
	13.50	15.00	SS-6A	64	6	-				SAME AS SS-6A					11	A-3a (VISUAL)	-
	16.00	17.50	SS-7A	53	67	3.00	28	13	19	27	13	19	13	6	10	A-4a (1)	-
	18.50	20.00	SS-8A	108	100	3.00				SAME AS SS-7A					8	A-4a (VISUAL)	-
	21.00	22.50	SS-9A	67	44	1.25				SAME AS SS-7A					12	A-4a (VISUAL)	-
	23.50	25.00	SS-10A	59	100	4.50				SAME AS SS-7A					11	A-4a (VISUAL)	-
B-002-2-17	1.50	3.00	SS-1A	6	78	1.50	16	9	16	31	28	31	16	15	21	A-6a (7)	-
STA. 176+55, 85' RT.	3.50	5.00	SS-2A	6	67	1.00				SAME AS SS-1A					22	A-6a (VISUAL)	-
LATITUDE = 39.416630	6.00	7.50	SS-3A	3	56	0.50				SAME AS SS-1A					22	A-6a (VISUAL)	-
LONGITUDE = -82.971896	8.50	10.00	SS-4A	18	56	3.00				SAME AS SS-1A					12	A-4a (VISUAL)	-
	11.00	12.50	SS-5A	24	78	3.00	27	9	18	32	14	18	13	5	12	A-4a (2)	-
	13.50	15.00	SS-6A	43	100	3.50				SAME AS SS-5A					12	A-4a (VISUAL)	-
	16.00	17.50	SS-7A	42	100	4.00				SAME AS SS-5A					14	A-4a (VISUAL)	-
	18.50	20.00	SS-8A	36	100	4.50	19	9	15	36	21	22	14	8	12	A-4a (4)	-
	21.00	22.50	SS-9A	43	100	4.50				SAME AS SS-8A					10	A-4a (VISUAL)	-
	23.50	25.00	SS-10A	83	100	4.50				SAME AS SS-8A					12	A-4a (VISUAL)	-
B-003-0-17	1.50	3.00	SS-1A	6	22	1.00	40	11	11	18	20	36	17	19	23	A-6b (3)	-
STA. 180+00, 0' LT.	3.50	4.00	SS-2A	21	67	2.00				SAME AS SS-1A					19	A-6b (VISUAL)	-
LATITUDE = 39.417106	4.00	5.00	SS-2B			-				SAME AS SS-3A					7	A-1-b (VISUAL)	-
LONGITUDE = -82.970800	6.00	7.50	SS-3A	24	56	-	49	28	10	10	3	NP	NP	NP	6	A-1-b (0)	-
	8.50	10.00	SS-4A	21	89	4.00	19	14	18	31	18	22	16	6	12	A-4a (3)	-
B-004-0-17	1.50	3.00	SS-1A	9	56	2.00	3	5	12	43	37	38	18	20	22	A-6b (12)	-
STA. 183+99, 3' RT.	3.50	5.00	SS-2A	6	100	0.50	3	11	26	33	27	28	17	11	20	A-6a (5)	-
LATITUDE = 39.417386	6.00	7.50	SS-3A	9	89	-	17	26	29	22	6	NP	NP	NP	10	A-3a (0)	-
LONGITUDE = -82.969434	8.50	10.00	SS-4A	10	56	-				SAME AS SS-3A					9	A-3a (VISUAL)	-
	11.00	12.50	SS-5A	12	78	-				SAME AS SS-5A					13	A-1-b (VISUAL)	-
	13.50	15.00	SS-6A	18	100	-	43	31	12	11	3	NP	NP	NP	13	A-1-b (0)	-
B-004-1-17	1.50	3.00	SS-1A	6	67	1.50				SAME AS SS-2A					21	A-6b (VISUAL) *	-
STA. 184+16, 72' LT.	3.50	5.00	SS-2A	24	100	2.50	9	7	11	42	31	33	17	16	21	A-6b (10)	-
LATITUDE = 39.417598	6.00	7.50	SS-3A	12	100	4.5+	2	13	33	31	21	25	15	10	10	A-4a (3)	-
LONGITUDE = -82.969447	8.50	10.00	SS-4A	9	78	-	7	33	30	20	10	NP	NP	NP	9	A-3a (0)	-
B-004-2-17	1.50	3.00	SS-1A	9	33	2.00				SAME AS SS-1A					21	A-6a (VISUAL) *	-
STA. 184+00, 84' RT.	3.50	5.00	SS-2A	7	67	2.00	17	18	19	22	24	31	16	15	20	A-6a (4)	-
LATITUDE = 39.417173	6.00	7.50	SS-3A	16	44	1.50				SAME AS SS-1A					17	A-6a (VISUAL)	-
LONGITUDE = -82.969354	8.50	10.00	SS-4A	13	78	-	23	36	18	17	6	NP	NP	NP	8	A-1-b (0)	-
B-005-0-17	1.50	3.00	SS-1A	12	44	1.50	17	13	11	32	27	34	20	14	20	A-6a (6)	-
STA. 188+00, 10' LT.	3.50	5.00	SS-2A	6	56	1.50				SAME AS SS-1A					22	A-6a (VISUAL)	-
LATITUDE = 39.417712	6.00	7.50	SS-3A	9	67	-	31	23	13	25	8	NP	NP	NP	11	A-2-4 (0)	-
LONGITUDE = -82.968078	8.50	10.00	SS-4A	18	67	-				SAME AS SS-3A					11	A-2-4 (VISUAL)	-
B-008-1-18	1.50	3.00	SS-1A	5	50	0.50	8	13	20	32	27	24	18	6	20	A-4a (5)	-
STA. 201+25, 17' LT.	3.00	4.50	SS-2A	4	44	-	19	19	17	27	18	23	21	2	18	A-4a (2)	-
LATITUDE = 39.418821	4.50	6.00	SS-3A	22	67	-	29	27	14	18	12	NP	NP	NP	15	A-2-4 (0)	-
LONGITUDE = -82.962968	6.00	7.50	SS-4A	32	83	-				SAME AS SS-3A					16	A-2-4 (VISUAL)	-
	8.50	10.00	SS-5A	20	83	-	38	27	16	9	10	NP	NP	NP	17	A-1-b (0)	-
	11.00	12.50	SS-6A	18	67	-				SAME AS SS-5A					25	A-1-b (VISUAL)	-
	13.50	15.00	SS-7A	12	44	-	5	4	52	25	14	NP	NP	NP	23	A-4a (1)	-
B-033-0-18	1.50	3.00	SS-1	19	67	4.5+	24	11	10	26	29	32	17	15	14	A-6a (6)	<100
STA. 187+97, 2' RT.	3.00	4.50	SS-2	9	56	4.00	24	13	11	25	27	32	17	15	15	A-6a (5)	<100
LATITUDE = 39.417677	4.50	5.40	SS-3A	5	61	3.50				SAME AS SS-2					15	A-6a (VISUAL)	-
LONGITUDE = -82.968076	5.40	6.00	SS-3B			-				SAME AS SS-4					11	A-1-b (VISUAL)	-
	6.00	7.50	SS-4	9	78	-	38	30	11	16	5	NP	NP	NP	11	A-1-b (0)	-
	8.50	10.00	SS-5	18	83	-				SAME AS SS-4					13	A-1-b (VISUAL)	-
B-034-0-18	1.00	2.50	SS-1	20	28	4.5+	23	9	9	28	31	31	16	15	15	A-6a (7)	-
STA. 192+02, 2' RT.	3.50	5.00	SS-2	8	67	2.50	21	21	21	21	16	21	16	5	16	A-4a (0)	-
LATITUDE = 39.417971	6.00	7.50	SS-3	18	94	-	28	37	17	12	6	NP	NP	NP	15	A-1-b (0)	-
LONGITUDE = -82.966695	8.50	10.00	SS-4	9	67	-	62	20	6	9	3	NP	NP	NP	15	A-1-a (0)	-
B-035-0-18	1.00	2.50	SS-1	12	33	4.5+	8	24	23	17	28	34	14	20	14	A-6b (5)	-
STA. 196+03, 1' RT.	3.50	5.00	SS-2	26	83	-	68	9	9	8	6	19	14	5	5	A-1-a (0)	-
LATITUDE = 39.418263	6.00	7.50	SS-3	32	83	-	45	23	16	11	5	NP	NP	NP	5	A-1-b (0)	-
LONGITUDE = -82.965327	8.50	10.00	SS-4	8	78	-	5	48	27	11	9	NP	NP	NP	18	A-1-b (0)	-
B-036-0-18	1.00	2.50	SS-1	8	56	1.75	20	6	14	27	33	37	15	22	25	A-6b (10)	-
STA. 200+01, 0' RT.	3.50	4.40	SS-2A	3	50	2.00				SAME AS SS-1					22	A-6b (VISUAL)	-
LATITUDE = 39.418556	4.40	5.00	SS-2B			-	14	26	17	32	11	NP	NP	NP	18	A-4a (2)	-
LONGITUDE = -82.963968	6.00	6.30	SS-3A	22	78	-				SAME AS SS-2B					22	A-4a (VISUAL)	-
	6.30	7.50	SS-3B			-				SAME AS SS-4					12	A-1-b (VISUAL)	-
	8.50	10.00	SS-4	15	72	-	48	28	10	9	5	NP	NP	NP	13	A-1-b (0)	-
	11.00	12.50	SS-5	23	89	-				SAME AS SS-4					13	A-1-b (VISUAL)	-

SUMMARY OF SOIL TEST DATA
S.R. 207

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-037-0-18	1.00	1.40	SS-1A	12	78	3.00				TOPSOIL					20		-
STA. 203+99, 0' LT.	1.40	2.50	SS-1B			3.00	6	6	12	45	31	30	15	15	20	A-6a (10)	-
LATITUDE = 39.418857	3.50	4.20	SS-2A	9	94	1.50				SAME AS SS-1B					20	A-6a (VISUAL)	-
LONGITUDE = -82.962613	4.20	5.00	SS-2B			-	25	34	12	21	8	NP	NP	NP	16	A-2-4 (0)	-
	6.00	6.40	SS-3A	24	83	-				SAME AS SS-2B					-	A-2-4 (VISUAL)	-
	6.40	7.50	SS-3B			-	52	20	10	13	5	NP	NP	NP	13	A-1-b (0)	-
	8.50	10.00	SS-4	26	72	-				SAME AS SS-3B					11	A-1-b (VISUAL)	-
B-038-0-18	1.00	2.50	SS-1	16	78	2.50	3	8	10	46	33	30	18	12	19	A-6a (9)	-
STA. 207+99, 0' RT.	3.50	5.00	SS-2	7	22	2.00	10	19	14	35	22	25	16	9	19	A-4a (4)	-
LATITUDE = 39.419194	6.00	6.20	SS-3A	12	78	0.25				SAME AS SS-2					21	A-4a (VISUAL)	-
LONGITUDE = -82.961266	6.20	7.50	SS-3B			-	31	34	13	16	6	NP	NP	NP	14	A-1-b (0)	-
	8.50	10.00	SS-4	11	78	-				SAME AS SS-3B					16	A-1-b (VISUAL)	-
B-039-0-18	1.00	2.50	SS-1	14	44	3.00	23	14	13	24	26	33	15	18	16	A-6b (6)	<100
STA. 212+00, 0' RT.	3.50	3.60	SS-2A	8	56	1.50				SAME AS SS-1					19	A-6b (VISUAL)	-
LATITUDE = 39.419502	3.60	5.00	SS-2B			-	20	22	34	17	7	NP	NP	NP	15	A-3a (0)	<100
LONGITUDE = -82.959907	6.00	7.50	SS-3	5	67	-				SAME AS SS-2B					22	A-3a (VISUAL)	-
	8.50	10.00	SS-4	8	89	-	3	8	39	43	7	NP	NP	NP	26	A-4a (3)	-
B-040-0-18	1.50	3.00	SS-1	12	39	4.00	34	14	12	20	20	34	15	19	16	A-6b (3)	<100
STA. 216+00, 1' RT.	3.00	3.20	SS-2A	20	67	4.00				SAME AS SS-1					15	A-6b (VISUAL)	-
LATITUDE = 39.419627	3.20	4.50	SS-2B			-	35	25	18	18	4	NP	NP	NP	7	A-1-b (0)	<100
LONGITUDE = -82.958501	4.50	6.00	SS-3	20	67	-				SAME AS SS-2B					8	A-1-b (VISUAL)	-
	6.00	7.50	SS-4	22	50	-				SAME AS SS-2B					11	A-1-b (VISUAL)	-
	8.50	10.00	SS-5	20	72	-	30	35	17	12	6	NP	NP	NP	16	A-1-b (0)	-
B-041-0-18	1.00	2.50	SS-1	18	61	4.00	5	16	16	34	29	24	15	9	16	A-4a (6)	-
STA. 220+00, 0' LT.	3.50	4.30	SS-2A	8	44	3.00	17	23	21	19	20	27	15	12	19	A-6a (1)	-
LATITUDE = 39.419564	4.30	5.00	SS-2B			-				SAME AS SS-3					13	A-1-b (VISUAL)	-
LONGITUDE = -82.957091	6.00	7.50	SS-3	19	67	-	47	32	9	8	4	NP	NP	NP	16	A-1-b (0)	-
	8.50	10.00	SS-4	18	39	-				SAME AS SS-3					13	A-1-b (VISUAL)	-
B-042-0-18	1.00	2.50	SS-1	18	56	2.50	7	11	18	31	33	33	17	16	16	A-6b (8)	-
STA. 221+74, 2' RT.	3.50	3.80	SS-2A	5	72	1.00				SAME AS SS-2A					20	A-6b (VISUAL)	-
LATITUDE = 39.419470	3.80	5.00	SS-2B			-	1	13	50	26	10	NP	NP	NP	15	A-4a (0)	-
LONGITUDE = -82.956487	6.00	7.50	SS-3	3	89	-	2	3	66	18	11	NP	NP	NP	28	A-3a (0)	-
	8.50	10.00	SS-4	5	89	-				SAME AS SS-3					28	A-3a (VISUAL)	-

SUMMARY OF SOIL TEST DATA
HOSPITAL DRIVE

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-022-0-17	1.50	3.00	SS-1A	8	56	2.00	25	18	14	25	18	34	20	14	20	A-6a (3) *	-
STA. 79+04, 18' RT.	3.00	4.50	SS-2A	13	56	1.50	38	15	11	25	11	25	20	5	17	A-4a (0)	-
LATITUDE = 39.413429	4.50	5.30	SS-3A	9	67	1.50				SAME AS SS-2A					18	A-4a (VISUAL)	-
LONGITUDE = -82.974949	5.30	6.00	SS-3B			-				SAME AS SS-3B					18	A-3a (VISUAL)	-
	6.00	7.50	SS-4A	6	89	-	13	36	32	14	5	NP	NP	NP	14	A-3a (0)	-
	8.50	9.00	SS-5A	19	100	-				SAME AS SS-4A					16	A-3a (VISUAL)	-
	9.00	10.00	SS-5B			4.00	22	9	15	33	21	22	14	8	13	A-4a (4)	-
	13.50	15.00	SS-6A	24	100	2.50				SAME AS SS-6A					18	A-4a (VISUAL)	-
B-023-0-17	1.50	3.00	SS-1A	24	100	4.00	32	14	15	24	15	21	15	6	9	A-4a (1) *	<100
STA. 83+00, 15' RT.	3.00	4.50	SS-2A	14	100	2.50				SAME AS SS-1A					13	A-4a (VISUAL)	-
LATITUDE = 39.414275	4.50	6.00	SS-3A	23	100	3.00				SAME AS SS-1A					13	A-4a (VISUAL)	-
LONGITUDE = -82.974110	6.00	7.50	SS-4A	22	100	3.00	21	9	12	37	21	27	18	9	15	A-4a (5)	<100
B-024-0-17	1.50	3.00	SS-1A	28	100	-	62	7	8	15	8	21	14	7	9	A-2-4 (0) *	120
STA. 87+00, 15' RT.	3.00	4.50	SS-2A	18	100	2.00	17	14	20	30	19	22	14	8	10	A-4a (3)	110
LATITUDE = 39.415055	4.50	6.00	SS-3A	21	100	4.00				SAME AS SS-2A					11	A-4a (VISUAL)	-
LONGITUDE = -82.973114	6.00	7.50	SS-4A	33	89	2.50	25	19	16	27	13	24	17	7	12	A-4a (1)	210
	8.50	10.00	SS-5A	35	100	4.50				SAME AS SS-4A					12	A-4a (VISUAL)	-
B-025-0-17	1.50	3.00	SS-1A	49	100	4.50	22	16	16	30	16	21	14	7	9	A-4a (2) *	390
STA. 91+00, 5' RT.	3.00	4.50	SS-2A	36	56	-				SAME AS SS-1A					9	A-4a (VISUAL)	-
LATITUDE = 39.415902	4.50	6.00	SS-3A	27	100	4.00	21	14	18	29	18	22	14	8	9	A-4a (2)	140
LONGITUDE = -82.972229	6.00	7.50	SS-4A	23	100	3.00				SAME AS SS-3A					9	A-4a (VISUAL)	-
	8.50	10.00	SS-5A	19	100	4.5+				SAME AS SS-3A					11	A-4a (VISUAL)	-
	11.00	12.50	SS-6A	24	100	3.50				SAME AS SS-3A					12	A-4a (VISUAL)	-
	13.50	15.00	SS-7A	19	100	4.5+	18	15	18	29	20	24	16	8	11	A-4a (3)	-
	16.00	17.50	SS-8A	55	100	4.50				SAME AS SS-7A					9	A-4a (VISUAL)	-
	18.50	20.00	SS-9A	37	100	-	28	21	16	21	14	24	16	8	8	A-2-4 (0)	-
	21.00	22.50	SS-10A	41	100	-				SAME AS SS-9A					10	A-2-4 (VISUAL)	-
	23.50	25.00	SS-11A	36	100	4.50	8	11	19	36	26	24	15	9	13	A-4a (5)	-
	26.00	27.50	SS-12A	33	100	4.50				SAME AS SS-11A					11	A-4a (VISUAL)	-
	28.50	30.00	SS-13A	46	100	4.50	16	11	18	34	21	22	16	6	16	A-4a (4)	-
	31.00	32.50	SS-14A	41	100	4.00	10	9	15	39	27	22	15	7	10	A-4a (6)	-
	33.50	35.00	SS-15A	28	100	4.00				SAME AS SS-14A					10	A-4a (VISUAL)	-
B-025-1-17	1.50	3.00	SS-1A	7	89	2.00	16	4	11	46	23	28	19	9	22	A-4a (7)	-
STA. 90+99, 82' RT.	3.50	5.00	SS-2A	13	78	3.00				SAME AS SS-1A					21	A-4a (VISUAL)	-
LATITUDE = 39.415810	6.00	6.50	SS-3A	12	89	2.00				SAME AS SS-1A					22	A-4a (VISUAL)	-
LONGITUDE = -82.971955	6.50	7.50	SS-3B			2.00	16	4	11	46	23	28	19	9	24	A-4a (7)	-
	8.50	10.00	SS-4A	10	44	-	37	29	20	10	4	NP	NP	NP	16	A-1-b (0)	-
	11.00	11.50	SS-5A	28	100	-				SAME AS SS-4A					13	A-1-b (VISUAL)	-
	11.50	12.50	SS-5B			3.00	41	8	11	24	16	21	14	7	11	A-4a (1)	-
	13.50	15.00	SS-6A	47	100	4.00				SAME AS SS-5B					10	A-4a (VISUAL)	-
	16.00	17.50	SS-7A	58	100	-				SAME AS SS-5B					15	A-4b (VISUAL)	-
	18.50	20.00	SS-8A	34	89	-	6	4	20	59	11	NP	NP	NP	20	A-4b (7)	-
B-026-0-17	1.50	3.00	SS-1A	24	0	-				SAME AS SS-2A					10	A-4a (VISUAL) *	-
STA. 96+00, 20' RT.	3.00	4.50	SS-2A	27	67	4.50	25	10	15	32	18	24	16	8	12	A-4a (3)	<100
LATITUDE = 39.417252	4.50	6.00	SS-3A	24	100	4.50				SAME AS SS-2A					14	A-4a (VISUAL)	-
LONGITUDE = -82.972382	6.00	7.50	SS-4A	45	100	4.50	27	14	15	25	19	24	16	8	11	A-4a (2)	<100
	8.50	10.00	SS-5A	22	100	4.50				SAME AS SS-4A					18	A-4a (VISUAL)	-
B-027-0-17	1.00	2.50	SS-1A	18	89	1.50	28	9	12	35	16	26	18	8	15	A-4a (3) *	160
STA. 100+00, 20' RT.	2.50	4.00	SS-2A	12	67	2.00				SAME AS SS-3A					22	A-6a (VISUAL)	-
LATITUDE = 39.418055	4.00	5.50	SS-3A	24	100	3.00	25	10	13	28	24	29	15	14	20	A-6a (5)	110
LONGITUDE = -82.973374	5.50	7.00	SS-4A	18	100	3.00				SAME AS SS-3A					13	A-6a (VISUAL)	-

SUMMARY OF SOIL TEST DATA
HOSPITAL DRIVE

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-028-0-17	0.00	1.50	SS-1A	18	78	4.5+				SAME AS SS-2A					11	A-4a (VISUAL) *	-
STA. 104+00, 15' LT.	1.50	3.00	SS-2A	13	67	4.5+	31	12	16	25	16	20	14	6	9	A-4a (1) *	540
LATITUDE = 39.418891	3.00	4.50	SS-3A	12	100	2.00				SAME AS SS-2A					17	A-4a (VISUAL) *	-
LONGITUDE = -82.974277	4.50	6.00	SS-4A	19	100	-	68	3	5	15	9	26	18	8	20	A-2-4 (0)	200

SUMMARY OF SOIL TEST DATA
S.R. 159

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-018-0-17	1.50	3.00	SS-1A	7	56	0.50	0	5	20	45	30	40	22	18	28	A-6b (11)	-
STA. 141+41, 104' LT.	3.50	4.20	SS-2A	18	56	1.50				SAME AS SS-1A					27	A-6b (VISUAL)	-
LATITUDE = 39.425470	4.20	5.00	SS-2B			-	MED. DENSE GRAY GRAVEL AND/OR STONE FRAGS. WITH SAND, LITTLE SILT, DAMP								8	A-1-b (VISUAL)	-
LONGITUDE = -82.954717	6.00	7.50	SS-3A	9	22	-	LOOSE, DARK GRAY & BROWN GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT, LITTLE CLAY, SLIGHTLY ORGANIC, MOIST TO WET								21	A-2-4 (VISUAL)	-
	8.50	10.00	SS-4A	4	78	-	38	28	13	15	6	24	20	4	19	A-1-b (0)	-
B-018-1-17	1.50	3.00	SS-1A	10	44	-	38	16	18	20	8	NP	NP	NP	15	A-2-4 (0) *	-
STA. 141+58, 160' LT.	3.50	5.00	SS-2A	21	44	-				SAME AS SS-1A					5	A-2-4 (VISUAL)	-
LATITUDE = 39.425689	6.00	7.50	SS-3A	4	56	-				SAME AS SS-1A					10	A-2-4 (VISUAL)	-
LONGITUDE = -82.954693	8.50	10.00	SS-4A	0	17	-				SAME AS SS-1A					11	A-2-4 (VISUAL)	-
	11.00	12.50	SS-5A	9	100	-	39	30	12	12	7	NP	NP	NP	18	A-1-b (0)	-
	13.50	15.00	SS-6A	9	100	-				SAME AS SS-5A					18	A-1-b (VISUAL)	-
	16.00	17.50	SS-7A	21	100	-	33	47	9	7	4	NP	NP	NP	18	A-1-b (0)	-
	18.50	20.00	SS-8A	18	100	-				SAME AS SS-7A					22	A-1-b (VISUAL)	-
	21.00	22.50	SS-9A	15	100	-				SAME AS SS-7A					18	A-1-b (VISUAL)	-
	23.50	25.00	SS-10A	23	78	-				SAME AS SS-7A					17	A-1-b (VISUAL)	-
B-018-2-17	1.50	3.00	SS-1A	10	33	3.50	32	5	8	32	23	48	29	19	31	A-7-6 (8) *	-
STA. 140+56, 98' LT.	3.50	5.00	SS-2A	19	44	-	56	16	8	16	4	NP	NP	NP	5	A-1-b (0)	-
LATITUDE = 39.425237	6.00	7.50	SS-3A	5	67	-	24	24	23	20	9	NP	NP	NP	17	A-2-4 (0)	-
LONGITUDE = -82.954734	8.50	10.00	SS-4A	8	78	-				SAME AS SS-3A					21	A-2-4 (VISUAL)	-
	11.00	12.50	SS-5A	22	100	-				SAME AS SS-3A					17	A-2-4 (VISUAL)	-
	13.50	15.00	SS-6A	10	67	-				SAME AS SS-3A					17	A-2-4 (VISUAL)	-
	16.00	17.50	SS-7A	17	100	-	29	27	25	13	6	NP	NP	NP	15	A-1-b (0)	-
	18.50	20.00	SS-8A	19	78	-				SAME AS SS-7A					12	A-1-b (VISUAL)	-
	21.00	22.50	SS-9A	23	100	-	0	22	55	16	7	NP	NP	NP	17	A-3a (0)	-
	23.50	25.00	SS-10A	17	100	-				SAME AS SS-9A					18	A-3a (VISUAL)	-
B-019-0-17	1.50	3.00	SS-1A	9	22	-				SAME AS SS-3A					9	A-6a (VISUAL) *	-
STA. 141+06, 1' LT.	3.50	5.00	SS-2A	9	28	-				SAME AS SS-3A					24	A-6a (VISUAL) *	-
LATITUDE = 39.425548	6.00	7.50	SS-3A	13	100	1.00	24	8	17	33	18	32	19	13	19	A-6a (4)	-
LONGITUDE = -82.954001	8.50	10.00	SS-4A	21	100	-	70	10	7	10	3	NP	NP	NP	7	A-1-a (0)	-
B-019-1-17	1.50	3.00	SS-1A	7	22	2.00	8	9	22	38	23	42	28	14	28	A-7-6 (7)	-
STA. 142+20, 32' RT.	3.50	5.00	SS-2A	6	33	2.00				SAME AS SS-1A					24	A-7-6 (VISUAL)	-
LATITUDE = 39.425452	6.00	7.50	SS-3A	9	33	-				SAME AS SS-5A					18	A-1-b (VISUAL)	-
LONGITUDE = -82.953815	8.50	10.00	SS-4A	7	28	-				SAME AS SS-5A					13	A-1-b (VISUAL)	-
	11.00	12.50	SS-5A	10	100	-	32	42	11	10	5	NP	NP	NP	21	A-1-b (0)	-
	13.50	15.00	SS-6A	12	100	-				SAME AS SS-5A					17	A-1-b (VISUAL)	-
	16.00	17.50	SS-7A	16	100	-				SAME AS SS-5A					28	A-1-b (VISUAL)	-
	18.50	20.00	SS-8A	18	100	-	48	22	15	10	5	NP	NP	NP	12	A-1-b (0)	-
	21.00	22.50	SS-9A	24	67	-				SAME AS SS-8A					21	A-1-b (VISUAL)	-
	23.50	25.00	SS-10A	28	100	-				SAME AS SS-8A					14	A-1-b (VISUAL)	-
B-029-0-17	1.50	3.00	SS-1A	23	89	-	22	25	21	23	9	NP	NP	NP	8	A-2-4 (0) *	<100
STA. 135+63, 10' LT.	3.00	4.50	SS-2A	6	100	-				SAME AS SS-3A					12	A-4a (VISUAL)	-
LATITUDE = 39.423862	4.50	6.00	SS-3A	6	100	-	19	19	22	22	18	25	16	9	17	A-4a (1)	<100
LONGITUDE = -82.954513	6.00	7.50	SS-4A	12	44	1.00	22	11	14	31	22	37	24	13	23	A-6a (5)	<100
	8.50	10.00	SS-5A	10	67	-	31	18	12	26	13	20	18	2	16	A-4a (1)	-
B-030-0-17	0.00	0.60	SS-1A	7	44	1.00	21	12	18	28	21	39	24	15	21	A-6a (5) *	170
STA. 138+54, 54' LT.	0.60	1.50	SS-1B			1.00				SAME AS SS-2A					16	A-6a (VISUAL) *	-
LATITUDE = 39.424638	1.50	2.00	SS-2A	9	44	1.50	29	14	17	23	17	32	18	14	19	A-6a (2) *	130
LONGITUDE = -82.954590	2.00	3.00	SS-2B			-				SAME AS SS-3A					9	A-1-b (VISUAL)	-
	3.00	4.50	SS-3A	18	67	-	53	14	12	16	5	NP	NP	NP	9	A-1-b (0)	-
	4.50	6.00	SS-4A	16	78	-				SAME AS SS-5A					11	A-2-4 (VISUAL)	-
	6.00	7.50	SS-5A	19	78	-	49	13	9	24	5	NP	NP	NP	8	A-2-4 (0)	-
	8.50	10.00	SS-6A	4	33	-				SAME AS SS-5A					16	A-2-4 (VISUAL)	-
B-030-1-17	1.50	3.00	SS-1A	8	22	-	50	14	10	15	11	36	25	11	14	A-2-6 (0) *	-
STA. 139+98, 67' RT.	3.00	4.50	SS-2A	10	44	-				SAME AS SS-1A					25	A-2-6 (VISUAL) *	-
LATITUDE = 39.425023	4.50	6.00	SS-3A	4	44	2.00	36	7	10	28	19	35	20	15	17	A-6a (4)	-
LONGITUDE = -82.954179	6.00	6.80	SS-4A	12	56	2.00				SAME AS SS-3A					16	A-6a (VISUAL)	-
	6.80	7.50	SS-4B			-				SAME AS SS-5A					8	A-1-a (VISUAL)	-
	8.50	10.00	SS-5A	9	67	-	61	17	7	11	4	NP	NP	NP	7	A-1-a (0)	-
	13.50	15.00	SS-6A	5	89	-	3	20	52	19	6	NP	NP	NP	25	A-3a (0)	-
	18.50	20.00	SS-7A	4	78	-				SAME AS SS-6A					27	A-3a (VISUAL)	-
B-031-0-17	1.50	3.00	SS-1A	7	67	2.00	19	12	17	34	18	29	19	10	19	A-4a (3)	-
STA. 141+75, 25' LT.	3.50	5.00	SS-2A	22	33	-				SAME AS SS-3A					4	A-1-a (VISUAL)	-
LATITUDE = 39.425529	6.00	7.50	SS-3A	24	44	-	71	13	5	9	2	NP	NP	NP	6	A-1-a (0)	-
LONGITUDE = -82.954256	8.50	10.00	SS-4A	6	11	-				SAME AS SS-3A					14	A-1-a (VISUAL)	-
B-032-0-17	1.50	3.00	SS-1A	27	78	-	33	18	21	20	8	NP	NP	NP	10	A-2-4 (0) *	220
STA. 143+99, 8' LT.	3.00	4.50	SS-2A	17	100	-	31	18	21	23	7	NP	NP	NP	8	A-2-4 (0)	170
LATITUDE = 39.426038	4.50	6.00	SS-3A	9	67	-				SAME AS SS-2A					15	A-2-4 (VISUAL)	-
LONGITUDE = -82.953835	6.00	7.50	SS-4A	19	100	-				SAME AS SS-2A					7	A-2-4 (VISUAL)	-
	8.50	10.00	SS-5A	9	100	-				SAME AS SS-2A					7	A-2-4 (VISUAL)	-
B-043-0-18	1.50	3.00	SS-1	15	61	-	56	12	11	14	7	NP	NP	NP	10	A-1-b (0) *	-
STA. 110+40, 8' LT.	3.00	4.50	SS-2	4	50	0.00	25	8	9	34	24	26	16	10	18	A-4a (5)	-
LATITUDE = 39.417138	4.50	6.00	SS-3	12	56	3.00	25	18	12	16	29	31	16	15	19	A-6a (4)	-
LONGITUDE = -82.956564	6.00	7.50	SS-4	14	67	3.00				SAME AS SS-3					12	A-6a (VISUAL)	-
B-044-0-18	1.50	3.00	SS-1	8	50	1.50	16	12	16	31	25	31	18	13	21	A-6a (5) *	-
STA. 114+49, 1' LT.	3.00	4.50	SS-2	3	94	0.50	0	6	8	47	39	25	17	8	21	A-4a (8)	-
LATITUDE = 39.418236	4.50	6.00	SS-3	14	100	1.50				SAME AS SS-2					18	A-4a (VISUAL)	-
LONGITUDE = -82.956270	6.00	7.50	SS-4	9	83	1.50	25	21	13	14	27	39	16	23	19	A-6b (5)	-
	8.50	10.00	SS-5	8	72	-	44	20	11	19	6	NP	NP	NP	7	A-1-b (0)	-

SUMMARY OF SOIL TEST DATA
S.R. 159

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-045-0-18	1.50	2.20	SS-1A	16	56	3.00	26	19	10	15	30	40	18	22	18	A-6b (6) *	-
STA. 118+00, 27' RT.	2.20	3.00	SS-1B			-				SAME AS SS-2					7	A-1-b (VISUAL)	-
LATITUDE = 39.419196	3.00	4.50	SS-2	26	72	-	46	22	11	14	7	NP	NP	NP	7	A-1-b (0)	-
LONGITUDE = -82.956114	4.50	6.00	SS-3	34	72	-				SAME AS SS-2					5	A-1-b (VISUAL)	-
	6.00	7.50	SS-4	23	61	-				SAME AS SS-2					4	A-1-b (VISUAL)	-
	8.50	10.00	SS-5	22	67	-	29	38	23	4	6	NP	NP	NP	4	A-1-b (0)	-
B-046-0-18	1.50	3.00	SS-1	26	44	-	62	18	7	9	4	NP	NP	NP	6	A-1-a (0)	-
STA. 119+00, 1' LT.	3.00	4.50	SS-2	15	56	-	45	28	10	11	6	NP	NP	NP	7	A-1-b (0)	-
LATITUDE = 39.419469	4.50	6.00	SS-3	23	89	-				SAME AS SS-2					5	A-1-b (VISUAL)	-
LONGITUDE = -82.956060	6.00	7.50	SS-4	28	67	-				SAME AS SS-2					4	A-1-b (VISUAL)	-
	8.50	10.00	SS-5	15	56	-				SAME AS SS-2					4	A-1-b (VISUAL)	-
B-047-0-18	1.50	3.00	SS-1	5	72	1.00	1	7	12	50	30	25	16	9	19	A-4b (8)	-
STA. 122+00, 14' LT.	3.00	4.50	SS-2	12	78	0.50	18	20	20	23	19	27	16	11	15	A-6a (2)	-
LATITUDE = 39.420243	4.50	6.00	SS-3	9	94	2.00				SAME AS SS-2					22	A-6a (VISUAL)	-
LONGITUDE = -82.955698	6.00	7.50	SS-4	7	83	1.00				SAME AS SS-2					23	A-6a (VISUAL)	-
	8.50	10.00	SS-5	16	61	-	45	20	11	11	13	NP	NP	NP	15	A-1-b (0)	-
B-048-0-18	1.50	3.00	SS-1	4	8	1.00				SAME AS SS-2					25	- *	-
STA. 125+52, 15' RT.	3.00	4.50	SS-2	4	67	0.50	17	13	12	32	26	29	17	12	16	A-6a (5)	-
LATITUDE = 39.421145	4.50	6.00	SS-3	7	100	0.50	22	28	12	26	12	37	16	21	19	A-6b (3)	-
LONGITUDE = -82.955249	6.00	6.40	SS-4A	9	61	1.00				SAME AS SS-3					18	A-6b (VISUAL)	-
	6.40	7.50	SS-4B			-	27	34	11	13	15	NP	NP	NP	12	A-2-4 (0)	-

SUMMARY OF SOIL TEST DATA
S.R. 180

EXPLOR. ID	FROM	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-019-2-17	1.50	3.00	SS-1A	7	33	0.50	13	9	15	38	25	45	29	16	26	A-7-6 (9) *	-
STA. 238+57, 25' RT.	3.50	5.00	SS-2A	13	44	1.00				SAME AS SS-1A					17	A-7-6 (VISUAL)	-
LATITUDE = 39.425265	6.00	7.50	SS-3A	15	78	-	60	15	7	15	3	NP	NP	NP	6	A-1-b (0)	-
LONGITUDE = -82.953871	8.50	10.00	SS-4A	9	67	-				SAME AS SS-3A					14	A-1-b (VISUAL)	-
	11.00	12.50	SS-5A	16	22	-				SAME AS SS-3A					11	A-1-b (VISUAL)	-
	13.50	15.00	SS-6A	13	67	-				SAME AS SS-3A					14	A-1-b (VISUAL)	-
	16.00	17.50	SS-7A	18	100	-	31	42	13	10	4	NP	NP	NP	14	A-1-b (0)	-
	18.50	20.00	SS-8A	16	78	-				SAME AS SS-7A					15	A-1-b (VISUAL)	-
	21.00	22.50	SS-9A	13	56	-				SAME AS SS-7A					14	A-1-b (VISUAL)	-
	23.50	25.00	SS-10A	22	100	-	21	54	13	8	4	NP	NP	NP	15	A-1-b (0)	-
B-020-0-17	1.00	2.50	SS-1A	40	100	-	32	24	21	17	6	NP	NP	NP	5	A-1-b (0) *	<100
STA. 239+75, 15' LT.	2.50	4.00	SS-2A	10	22	-				SAME AS SS-1A					14	A-1-b (VISUAL)	-
LATITUDE = 39.425419	4.00	5.50	SS-3A	12	17	-				SAME AS SS-1A					31	A-1-b (VISUAL)	-
LONGITUDE = -82.953482	5.50	7.00	SS-4A	9	78	-	37	8	21	22	12	24	17	7	18	A-2-4 (0)	<100
B-021-0-17	1.50	3.00	SS-1A	15	100	-	36	22	21	14	7	NP	NP	NP	8	A-1-b (0) *	<100
STA. 243+63, 9' LT.	3.00	4.50	SS-2A	13	100	-	36	13	17	23	11	NP	NP	NP	13	A-2-4 (0)	<100
LATITUDE = 39.425770	4.50	6.00	SS-3A	13	89	-				SAME AS SS-2A					8	A-2-4 (VISUAL)	-
LONGITUDE = -82.952191	6.00	7.50	SS-4A	13	100	-				SAME AS SS-2A					6	A-2-4 (VISUAL)	-

SUMMARY OF SOIL TEST DATA
S.R. 207 HISTORIC BORINGS

EXPLOR. ID	FROM	TO	% GR	% CS	% FS	% SILT	% CLAY	LL	PI	% WC	ODOT CLASS (GI)
B-016-1-00	0.00	0.60				TOPSOIL (7")				-	-
STA. 176+00, ℄.	0.60	3.00				DARK BROWN CLAYEY SILT				20	VISUAL
	3.00	8.00				BROWN SILTY FINE TO COARSE SAND AND GRAVEL				9	VISUAL
						BROWN SILTY FINE TO COARSE SAND AND GRAVEL				11	VISUAL
	8.00	13.00				DARK BROWN SANDY SILT (TILL)				20	VISUAL
	13.00	16.50				GRAY SANDY SILT (TILL)				9	VISUAL
						GRAY SANDY SILT (TILL)				9	VISUAL

SUMMARY OF SOIL TEST DATA
HOSPITAL ROAD HISTORIC BORINGS

EXPLOR. ID	FROM	TO	% GR	% CS	% FS	% SILT	% CLAY	LL	PI	% WC	ODOT CLASS (GI)
B-028-0-00	0.00	0.30				TOPSOIL (3")				-	-
STA. 86+00, ℄.	0.30	3.50				BROWN CLAYEY SILT				25	VISUAL
						BROWN SILTY FINE TO COARSE SAND AND GRAVEL				18	VISUAL
	3.50	8.50				BROWN SILTY FINE TO COARSE SAND AND GRAVEL				24	VISUAL
						BROWN FINE TO COARSE SAND & GRAVEL				14	VISUAL
	5.50	7.00	7	8	14	52	19	22	6	11	A-4b
						GRAY SANDY SILT (TILL)				-	VISUAL
	23.50	25.00				BROWN FINE TO COARSE SAND & GRAVEL				8	VISUAL
B-029-0-00	0.00	0.70				TOPSOIL (8")				-	-
STA. 90+00, ℄.	0.70	3.00				BROWN CLAYEY SILT				18	VISUAL
	3.00	13.00				BROWN SANDY SILT (TILL)				16	VISUAL
						BROWN SANDY SILT (TILL)				13	VISUAL
						BROWN SANDY SILT (TILL)				11	VISUAL
	13.00	28.50	6	6	15	45	28	22	7	10	A-4b
						GRAY CLAYEY SILT (TILL)				10	VISUAL
						GRAY CLAYEY SILT (TILL)				11	VISUAL
	28.50	30.00				GRAY SILTY FINE TO COARSE SAND AND GRAVEL				9	VISUAL

NOTES:

BORING AND CPT INFORMATION FOR B-002-1-17, B-002-2-17, C-003-3-17, C-003-1-17, & C-003-2-17 CAN BE FOUND ON SHEET 17.

BORING INFORMATION FOR B-026-0-17 CAN BE FOUND ON SHEET 12.

COMMERCIAL

AGRICULTURAL

EX LA-R/W

Ex LA-R/W

BEGIN WORK
STA. 171+00.00

U.S. 23 NB ON RAMP

U.S. 23 NB OFF RAMP

℄ CONSTRUCTION S.R. 207

℄ CONSTRUCTION HOSPITAL DRIVE

B-026-0-17

B-002-1-17

C-002-3-17

B-002-0-17

B-016-1-00

B-001-0-17

B-002-2-17

C-003-1-17

C-003-2-17

B-003-0-17

MATCHLINE STA. 183+50

B-001-0-17
34' RT.
ASPHALT (10")
13 22 19 32 28 — 18 13 13 16 14 16
N_{60} WC

B-016-1-00
STA. 176+00
℄
TOPSOIL = 0.6'
2/3/4 6/8/5 6/8/6 8/9/12 19/21/24 9/10/13 — 20 9 11 W 20 9 9
N WC

B-002-0-17
1' LT.
TOPSOIL (6")
13 22 18 19 70 55 — 16 17 12 14 13 13 9
N_{60} WC

B-003-0-17
0' LT.
TOPSOIL (6")
6 21 24 21 — 23 7 19 6 12
N_{60} WC

SOIL PROFILE
STA. 171+00 TO STA. 183+50 - S.R. 207

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN AJC
CHECKED SAT

ROS-207-0.00

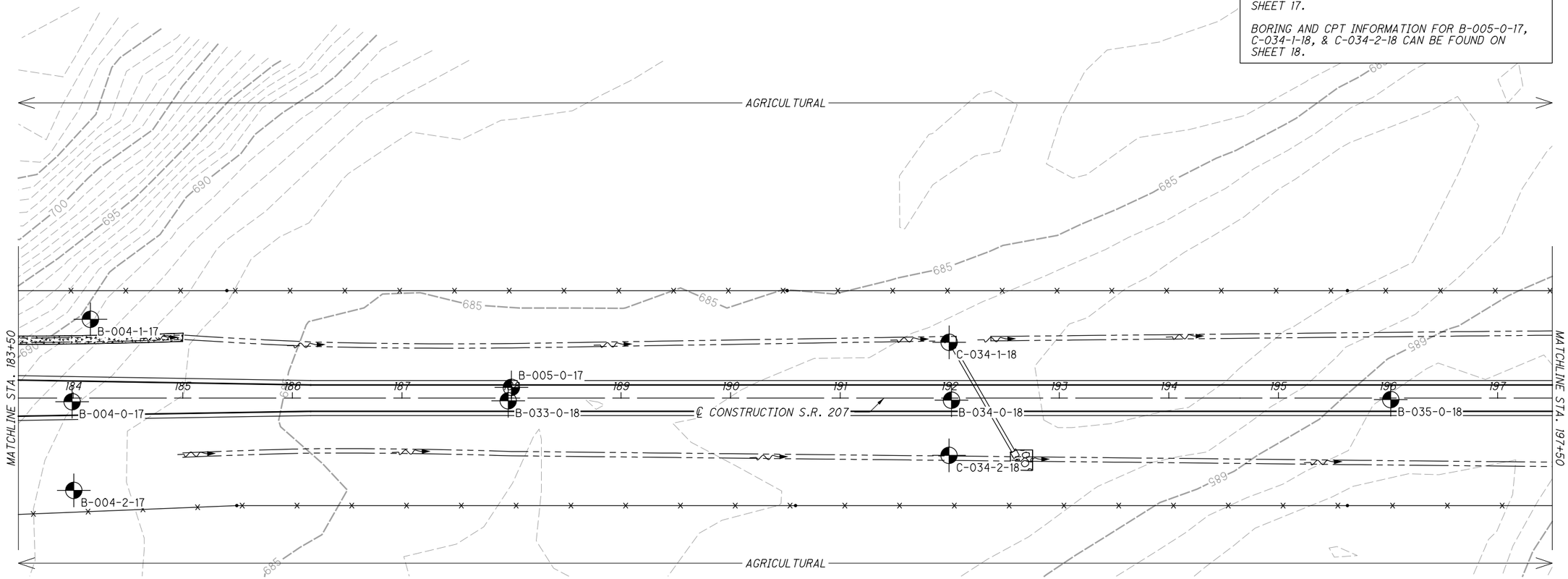
7 / 29

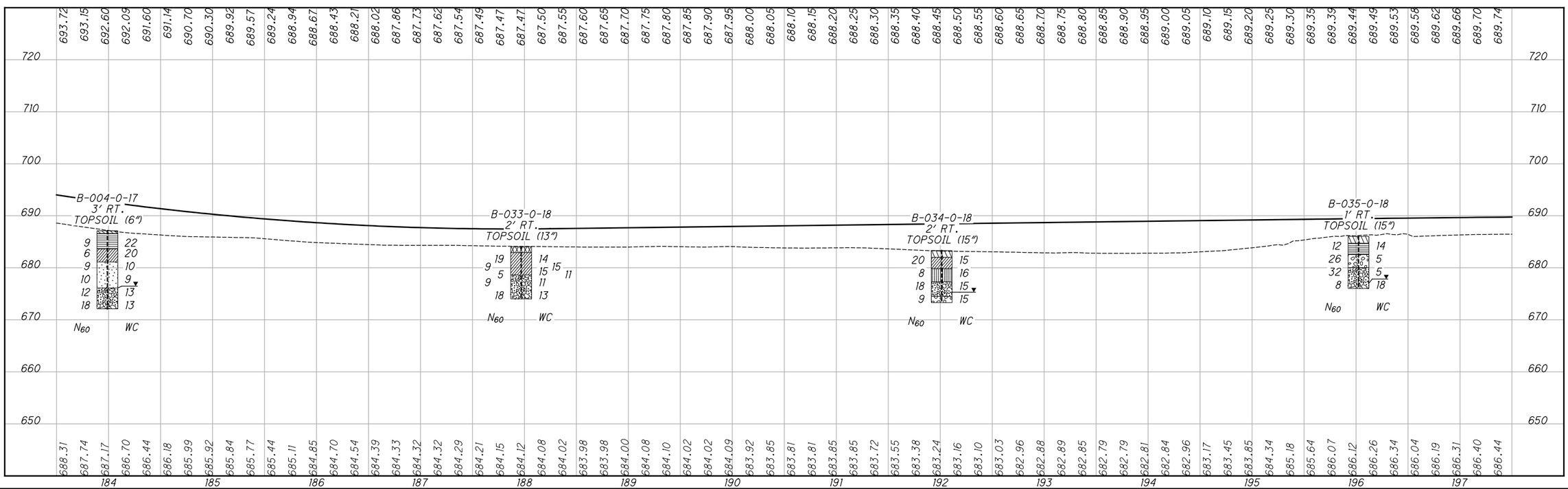
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NOTES:

BORING INFORMATION FOR B-004-1-17 & B-004-2-17 SHEET 17.

BORING AND CPT INFORMATION FOR B-005-0-17, C-034-1-18, & C-034-2-18 CAN BE FOUND ON SHEET 18.





SOIL PROFILE

STA. 183+50 TO STA. 197+50 - S.R. 207

ROS-207-0.00

8 / 29

DRAWN AJC

CHECKED SAT

HORIZONTAL SCALE IN FEET

0 25 50 100

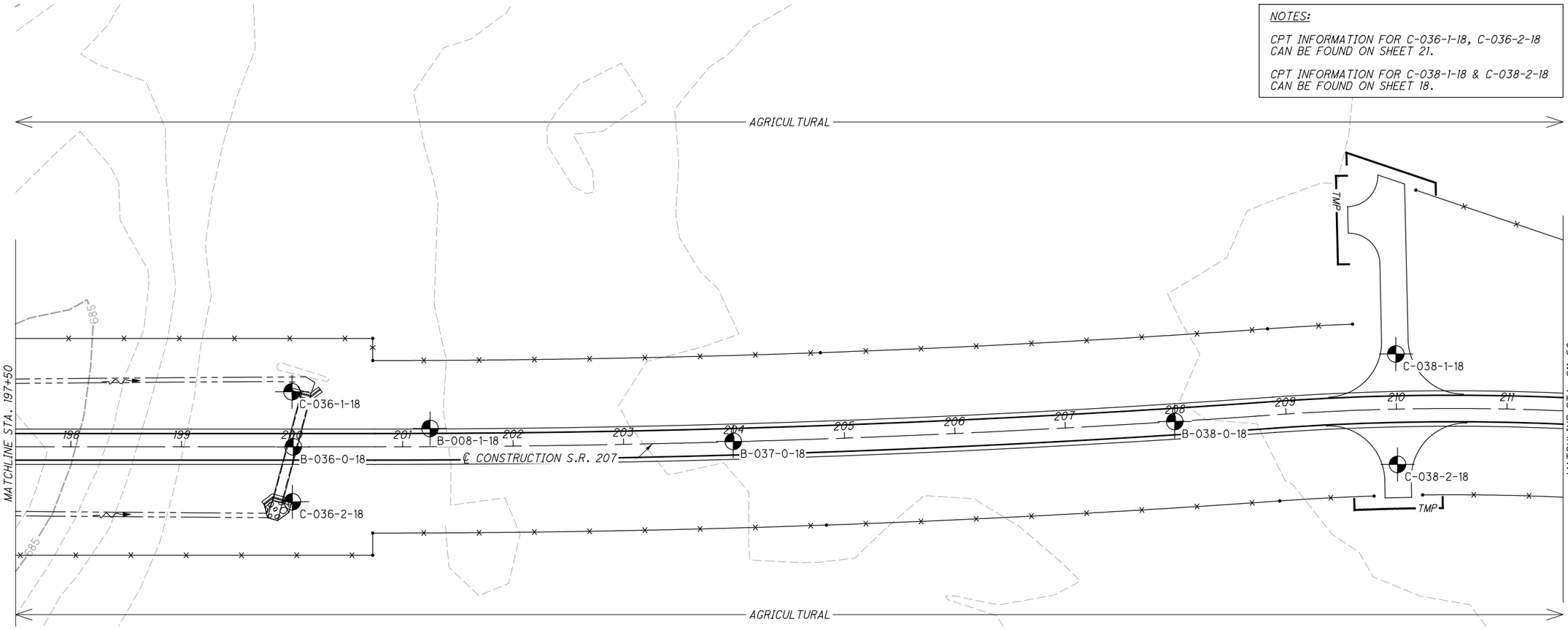
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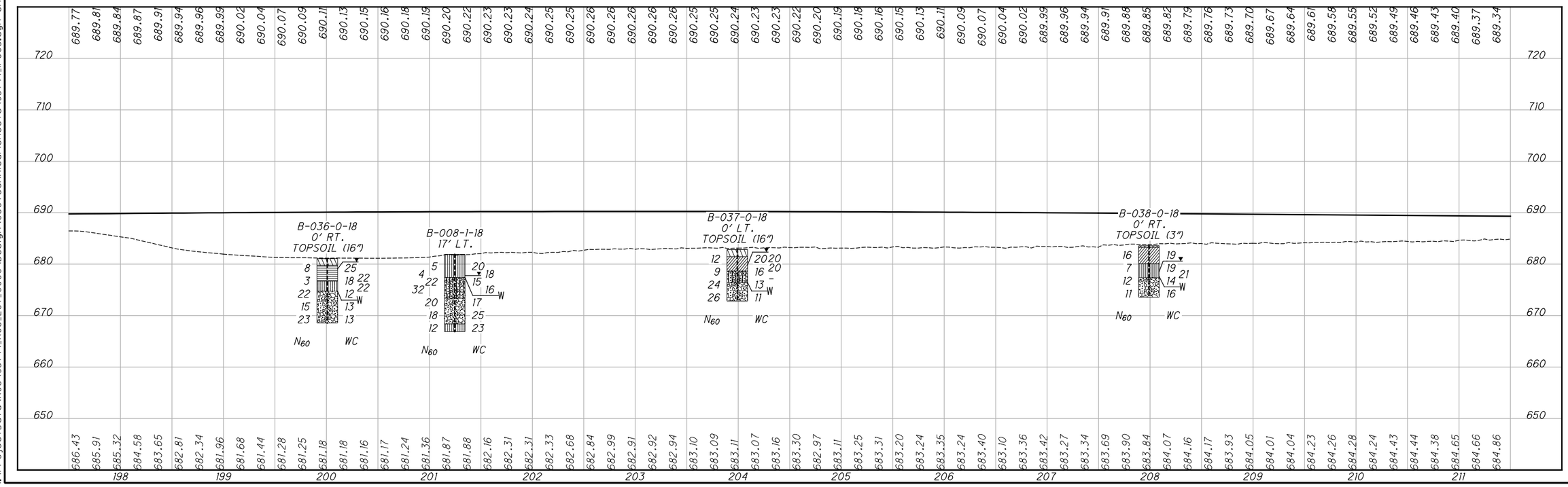
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NOTES:

CPT INFORMATION FOR C-036-1-18, C-036-2-18 CAN BE FOUND ON SHEET 21.

CPT INFORMATION FOR C-038-1-18 & C-038-2-18 CAN BE FOUND ON SHEET 18.





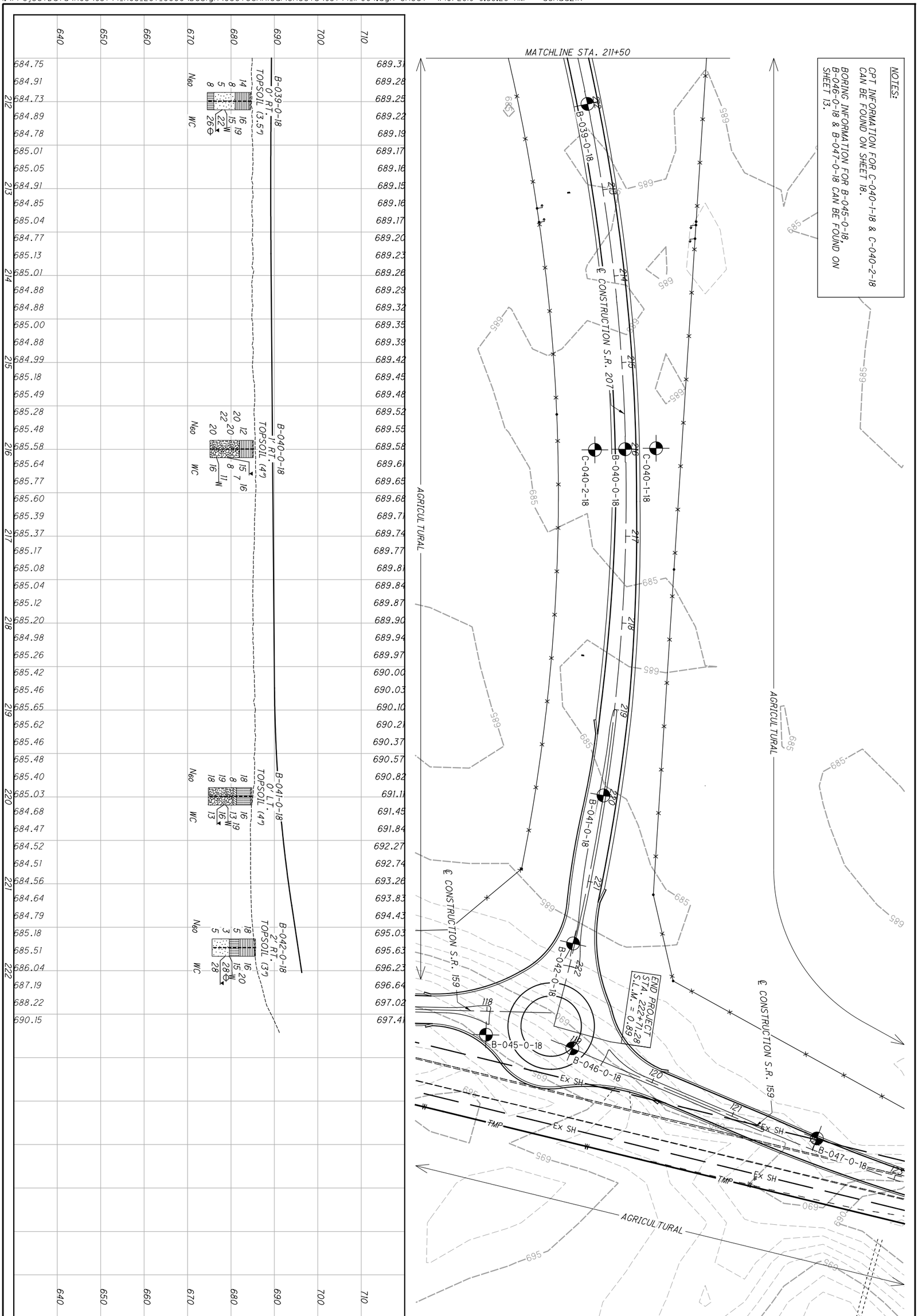
HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN AJC
CHECKED SAT

SOIL PROFILE
STA. 197+50 TO 211+50 - S.R. 207

ROS-207-0.00

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10/29	ROS-207-0.00	SOIL PROFILE STA. 211+50 TO STA. 222+71.28 - S.R. 207	DRAWN AJC CHECKED SAT	0 50 25 100 HORIZONTAL SCALE IN FEET	N

NOTES:

BORING AND CPT INFORMATION FOR B-025-1-17 & C-025-2-17 CAN BE FOUND ON SHEET 19.

BEGIN WORK STA. 78+46.00

℄ CONSTRUCTION HOSPITAL ROAD

MATCHLINE STA. 92+50

AGRICULTURAL

B-022-0-17
18' RT.
TOPSOIL (5")
N60 WC

B-023-0-17
15' RT.
ASPHALT (10")
N60 WC

B-028-1-00
℄
TOPSOIL = 0.3'
N WC

B-024-0-17
15' RT.
ASPHALT (10") & BASE (4")
N60 WC

B-029-1-00
℄
TOPSOIL = 0.8'
N WC

B-025-0-17
5' RT.
ASPHALT (6")
N60 WC

HORIZONTAL SCALE IN FEET
0 25 50 100

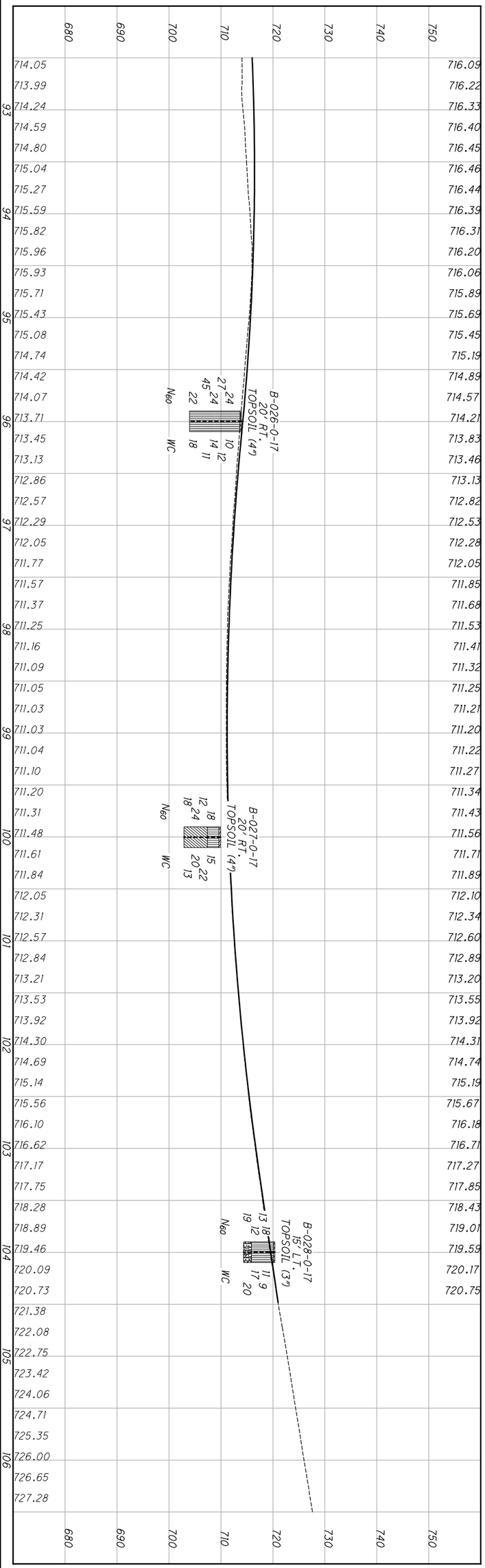
DRAWN AJC
CHECKED SAT

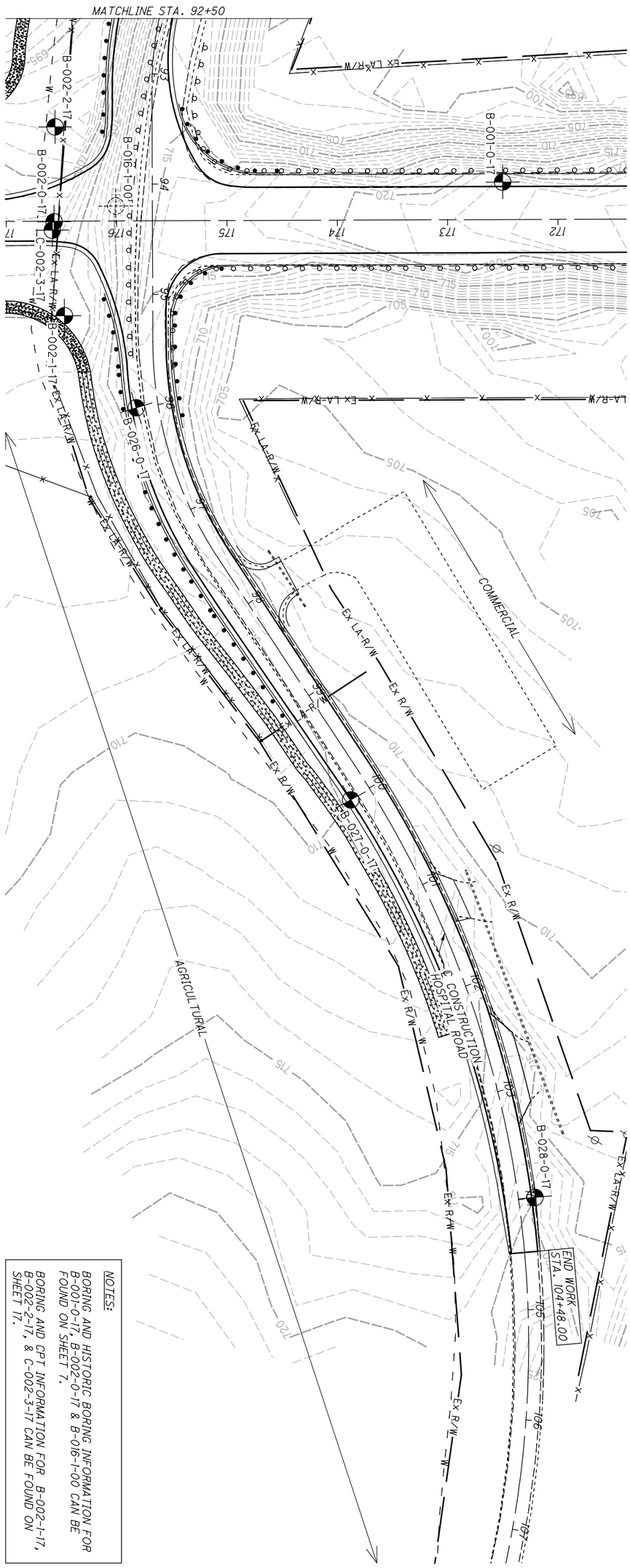
SOIL PROFILE
STA. 78+46 TO STA. 92+50 - HOSPITAL RD

ROS-207-0.00

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NOTES:

BORING AND HISTORIC BORING INFORMATION FOR B-001-0-17, B-002-0-17 & B-016-1-00 CAN BE FOUND ON SHEET 7.

BORING AND CPT INFORMATION FOR B-002-1-17, B-002-2-17, & C-002-3-17 CAN BE FOUND ON SHEET 17.

12/29	ROS-207-0.00	SOIL PROFILE STA. 92+50 TO STA. 104+48 - HOSPITAL RD	DRAWN AJC CHECKED SAT	0 50 25 100 HORIZONTAL SCALE IN FEET	N

NOTES:

BORING INFORMATION FOR B-041-0-18 & B-042-0-18 CAN BE FOUND ON SHEET 10.

BEGIN WORK
STA. 110+35.00

℄ CONSTRUCTION
S.R. 159

MATCHLINE STA. 122+50

AGRICULTURAL

B-041-0-18
B-042-0-18
B-043-0-18
B-044-0-18
B-045-0-18
B-046-0-18
B-047-0-18

TMP
Ex SH
W

B-043-0-18
8' LT.
ASPHALT (13.75") & CONCRETE (3.75")
N60 WC

B-044-0-18
1' LT.
TOPSOIL (6")
N60 WC

B-045-0-18
27' RT.
TOPSOIL (5")
N60 WC

B-046-0-18
1' LT.
TOPSOIL (4")
N60 WC

B-047-0-18
14' LT.
TOPSOIL (4")
N60 WC

720
710
700
690
680
670
660
650

109 110 111 112 113 114 115 116 117 118 119 120 121 122

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN AJC
CHECKED SAT

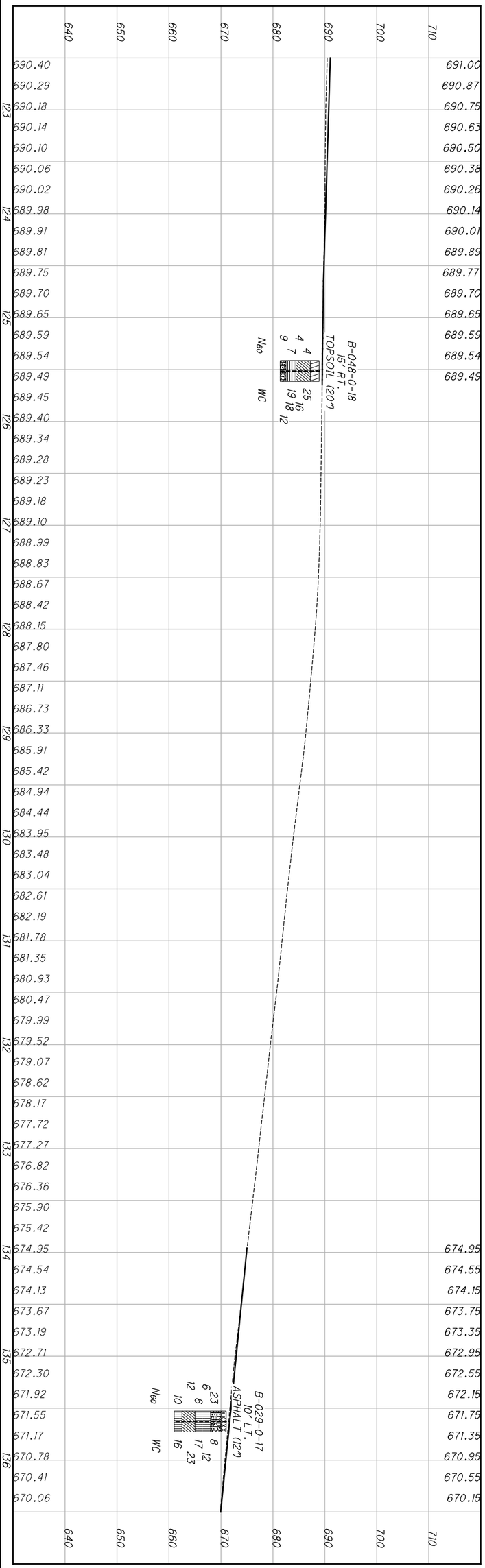
SOIL PROFILE
STA. 110+35 TO STA. 122+50 - S.R. 159

ROS-207-0.00

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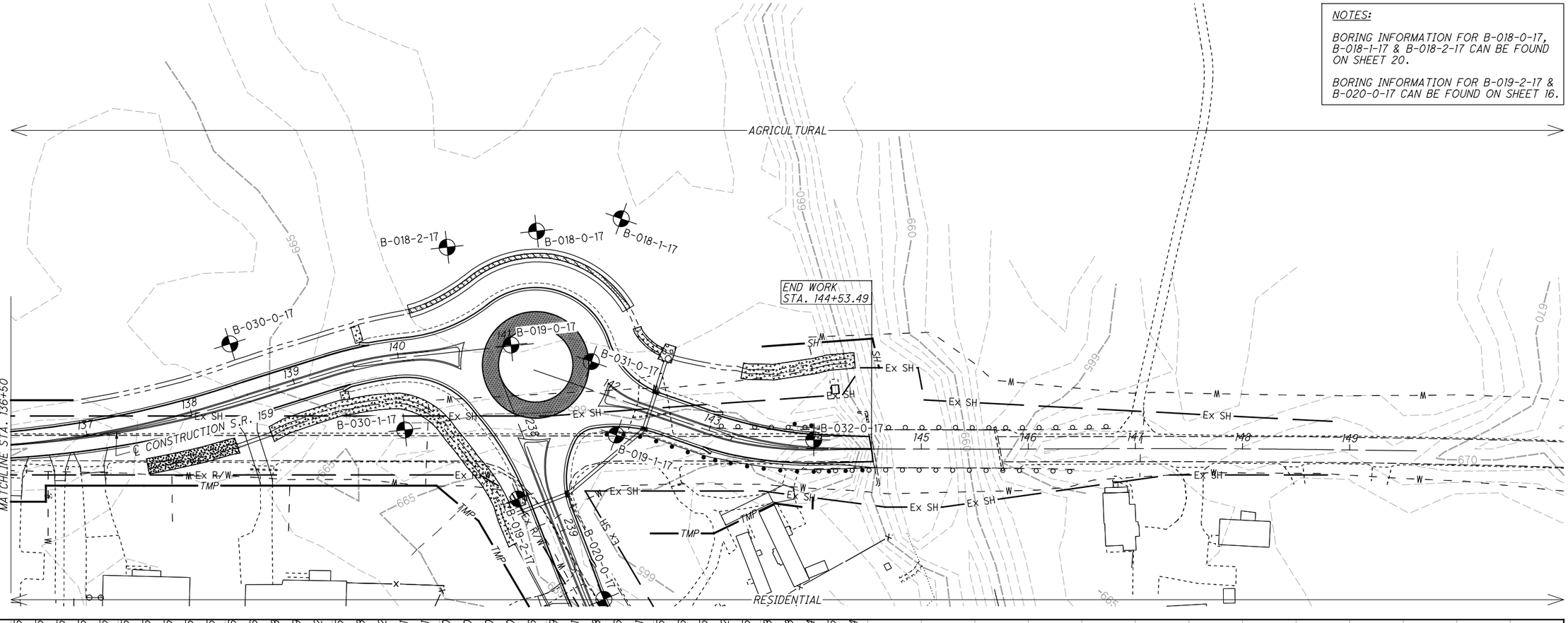
14/29	ROS-207-0.00	SOIL PROFILE STA. 122+50 TO STA. 136+50 - S.R. 159	DRAWN AJC CHECKED SAT	0 50 25 100 HORIZONTAL SCALE IN FEET	N

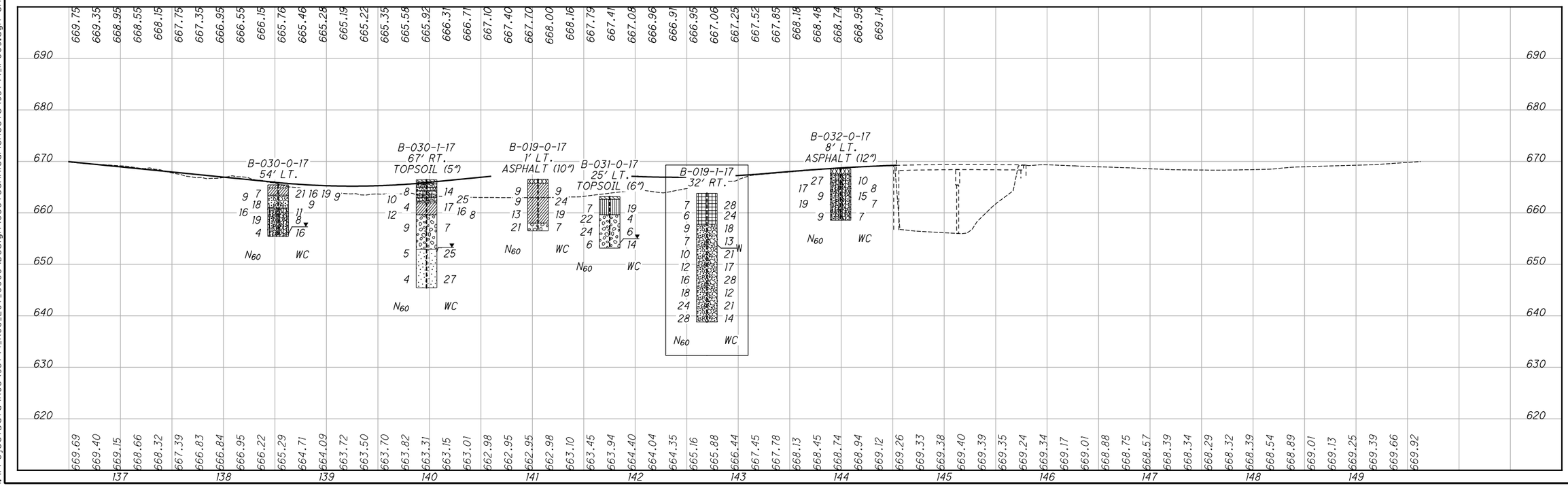
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NOTES:

BORING INFORMATION FOR B-018-0-17, B-018-1-17 & B-018-2-17 CAN BE FOUND ON SHEET 20.

BORING INFORMATION FOR B-019-2-17 & B-020-0-17 CAN BE FOUND ON SHEET 16.





HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN AJC
CHECKED SAT

SOIL PROFILE
STA. 136+50 TO STA. 144+53.49 - S.R. 159

ROS-207-0.00

15 / 29

RESIDENTIAL/COMMERCIAL

NOTES:

BORING INFORMATION FOR B-018-0-17 & B-018-1-17 CAN BE FOUND ON SHEET 20.

BORING INFORMATION FOR B-019-0-17, B-019-1-17, B-030-1-17, B-031-0-17 & B-032-0-17 CAN BE FOUND ON SHEET 15.

B-018-1-17
B-018-0-17
B-032-0-17
B-031-0-17
B-019-0-17
B-019-1-17
BEGIN WORK STA. 237+46.78
END WORK STA. 245+05.00
B-020-0-17
B-021-0-17
B-019-2-17
B-030-1-17
℄ CONSTRUCTION S.R. 180
Ex R/W
Ex SH
TMP
HS
M
W
665
670
675
680
685
690
695
699
610

RESIDENTIAL

B-019-2-17
25' RT.

7	13	15	9	16	13	18	16	13	22	26	17	6	14	11	14	14	15	14	15	W			
N_{60}										WC													

B-020-0-17
15' LT.
ASPHALT (14")

10	12	9	40		5	14	31	18
N_{60}						WC		

B-021-0-17
9' LT.
ASPHALT (12")

13	13	13	15		8	13	8	6
N_{60}						WC		

667.65 667.42 667.19 666.97 666.83 666.77 666.81 666.90 666.99 667.08 667.16 667.22 667.28 667.32 667.35 667.36 667.37 667.36 667.34 667.32 667.30 667.31 667.34 667.38 667.44 667.52 667.62 667.72 667.81 667.90 667.98 668.05 668.11 668.16 668.21 668.25 668.27 668.30

663.35 664.58 666.07 666.81 666.65 666.42 666.45 666.57 666.57 666.25 665.39 665.13 665.05 665.05 665.24 665.45 665.84 666.73 666.74 667.13 667.47 667.50 667.48 667.47 667.45 667.48 667.58 667.68 667.74 667.80 667.89 667.98 668.08 668.10 668.10 668.10 668.19 668.28 668.38 668.54 668.70 668.85 669.00 669.15 669.28

680 670 660 650 640 630 620 610

238 239 240 241 242 243 244 245 246

SOIL PROFILE
STA. 237+46.78 TO STA. 245+05 - S.R. 180

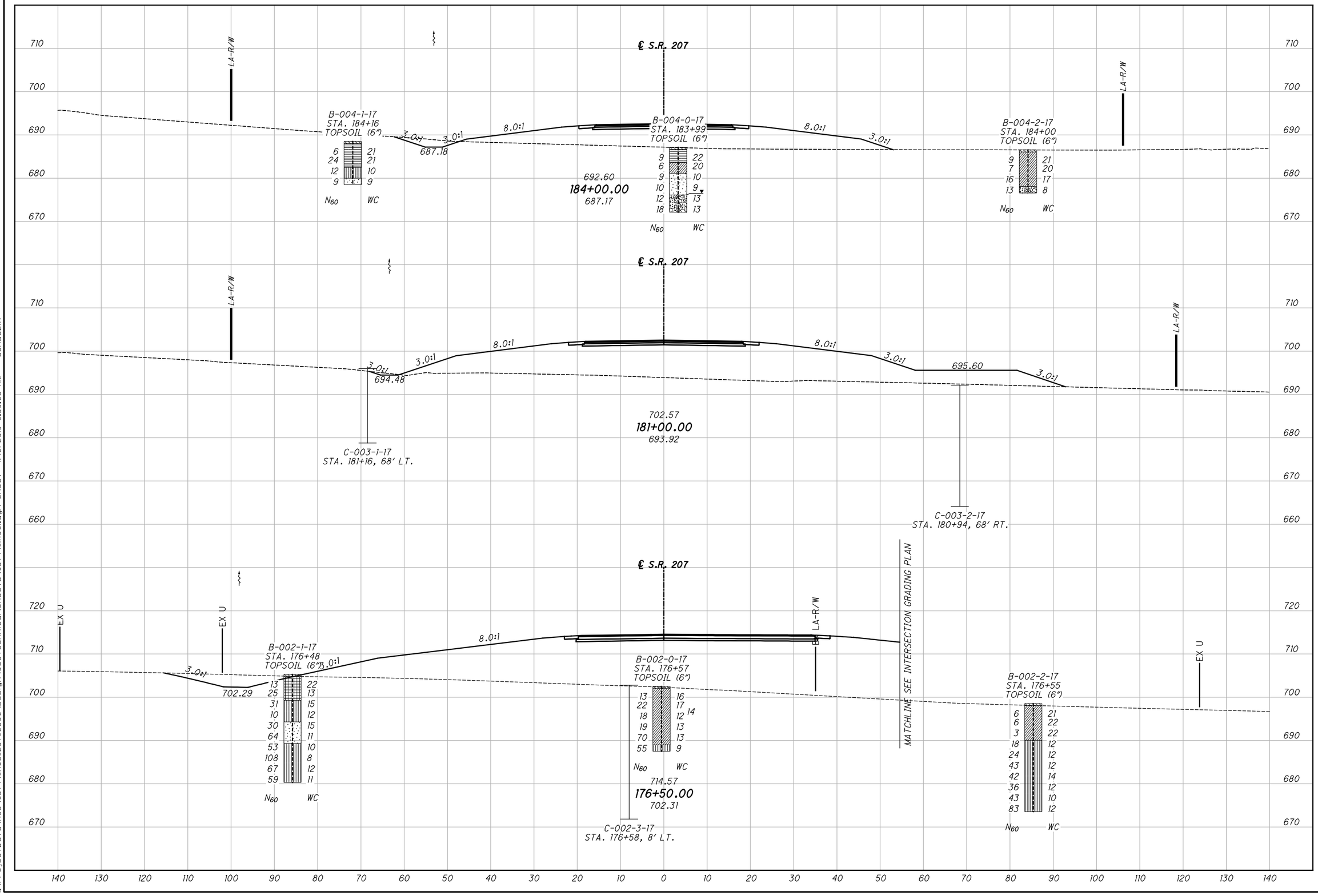
ROS-207-0.00

16 / 29

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN AJC
CHECKED SAT

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0 5 10 20
HORIZONTAL SCALE IN FEET

DRAWN AJC
CHECKED SAT

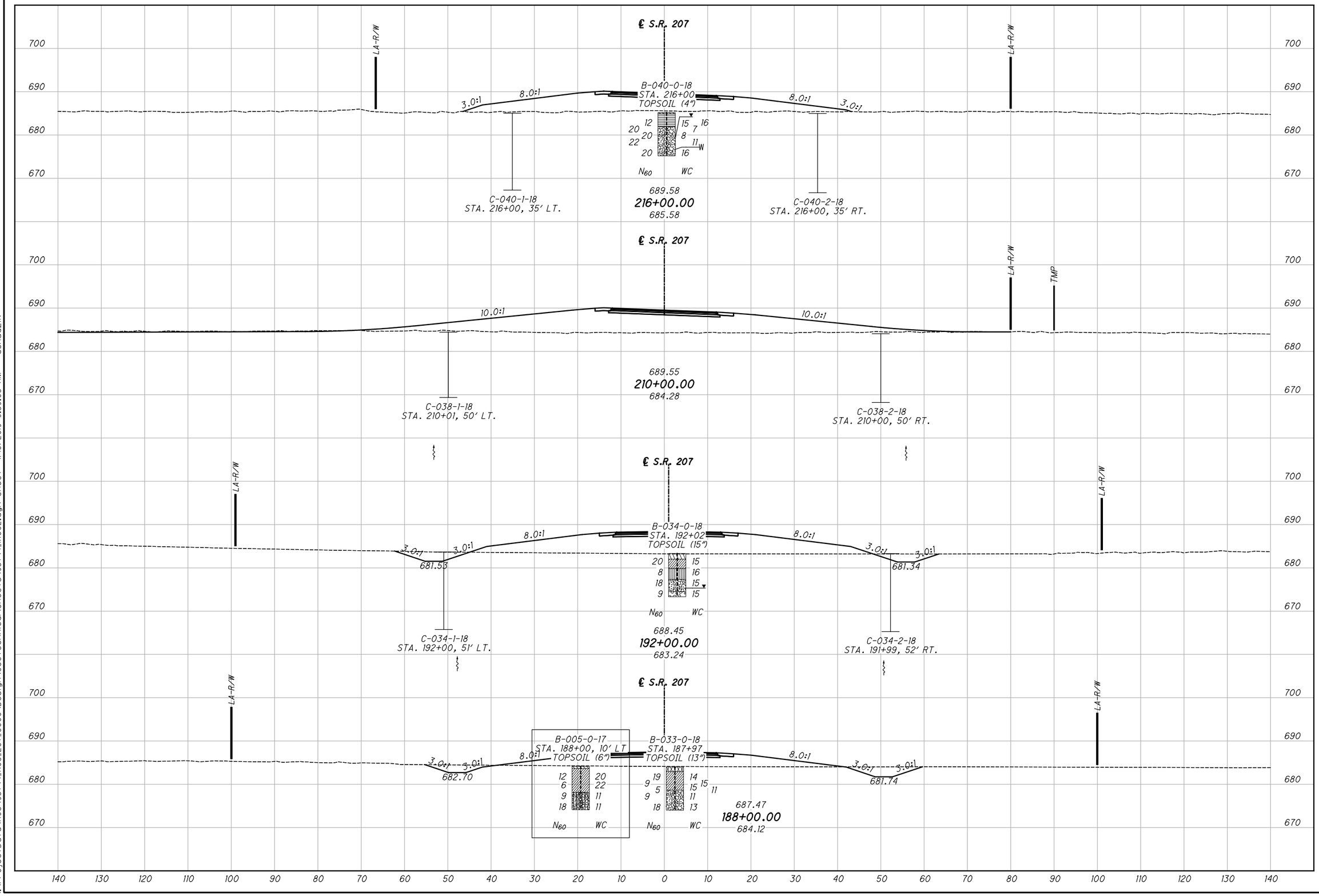
SOIL PROFILE

STA. 176+50, 181+00 & 184+00 - S.R. 207

ROS-207-0.00

17 / 29

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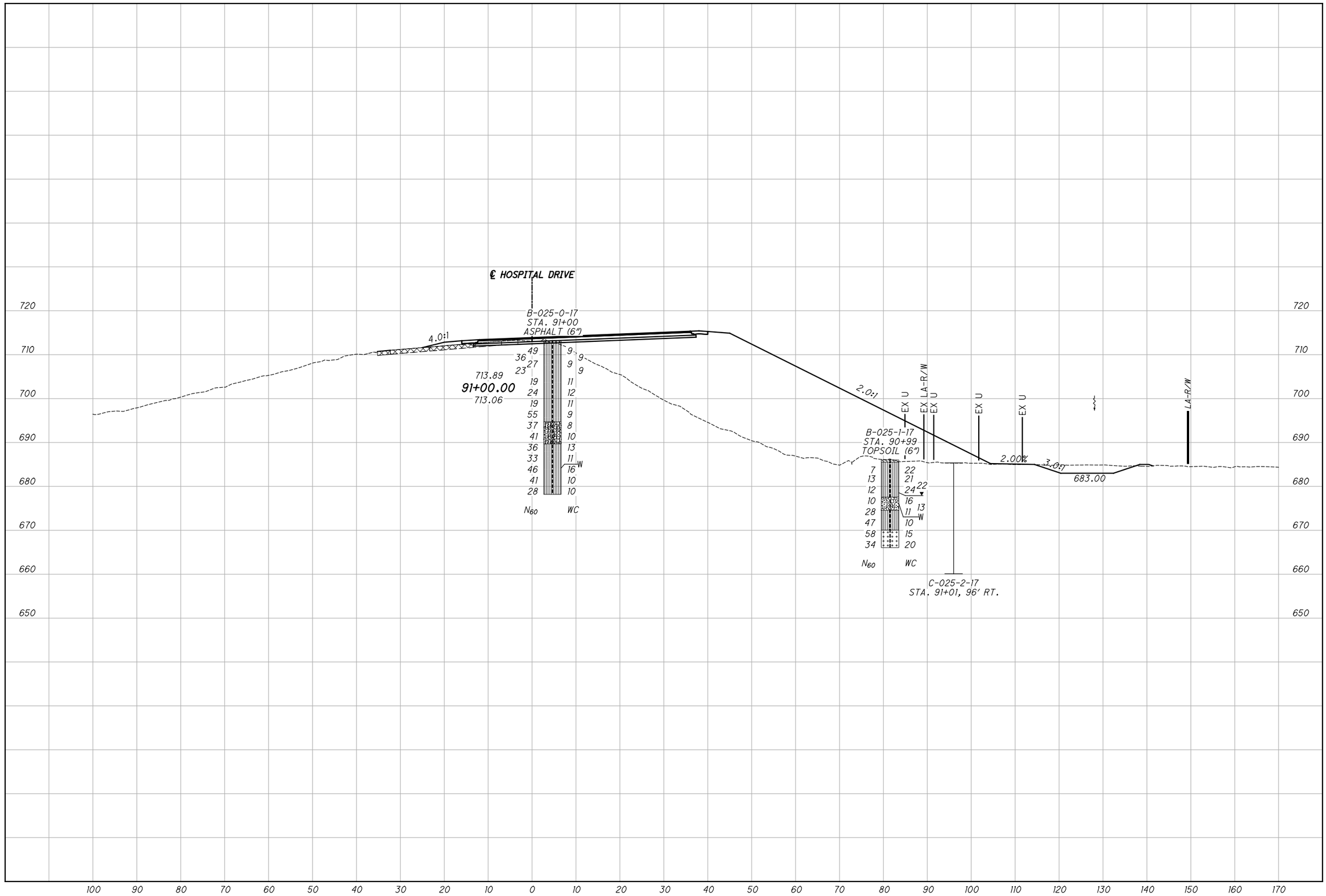
0 5 10 20
HORIZONTAL SCALE IN FEET

DRAWN AJC
CHECKED SAT

SOIL PROFILE
STA. 188+00, 192+00, 210+00 & 216+00 - S.R. 207

ROS-207-0.00

18 / 29



HORIZONTAL SCALE IN FEET
0 5 10 20

DRAWN AJC
CHECKED SAT

SOIL PROFILE
STA. 91+50 - HOSPITAL ROAD

ROS-207-0.00

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SOIL PROFILE

STA. 140+00, STA. 141+27.04 & STA. 142+00 - S.R. 159

ROS-207-0.00

HORIZONTAL SCALE IN FEET

0 5 10 20

DRAWN AJC

CHECKED SAT

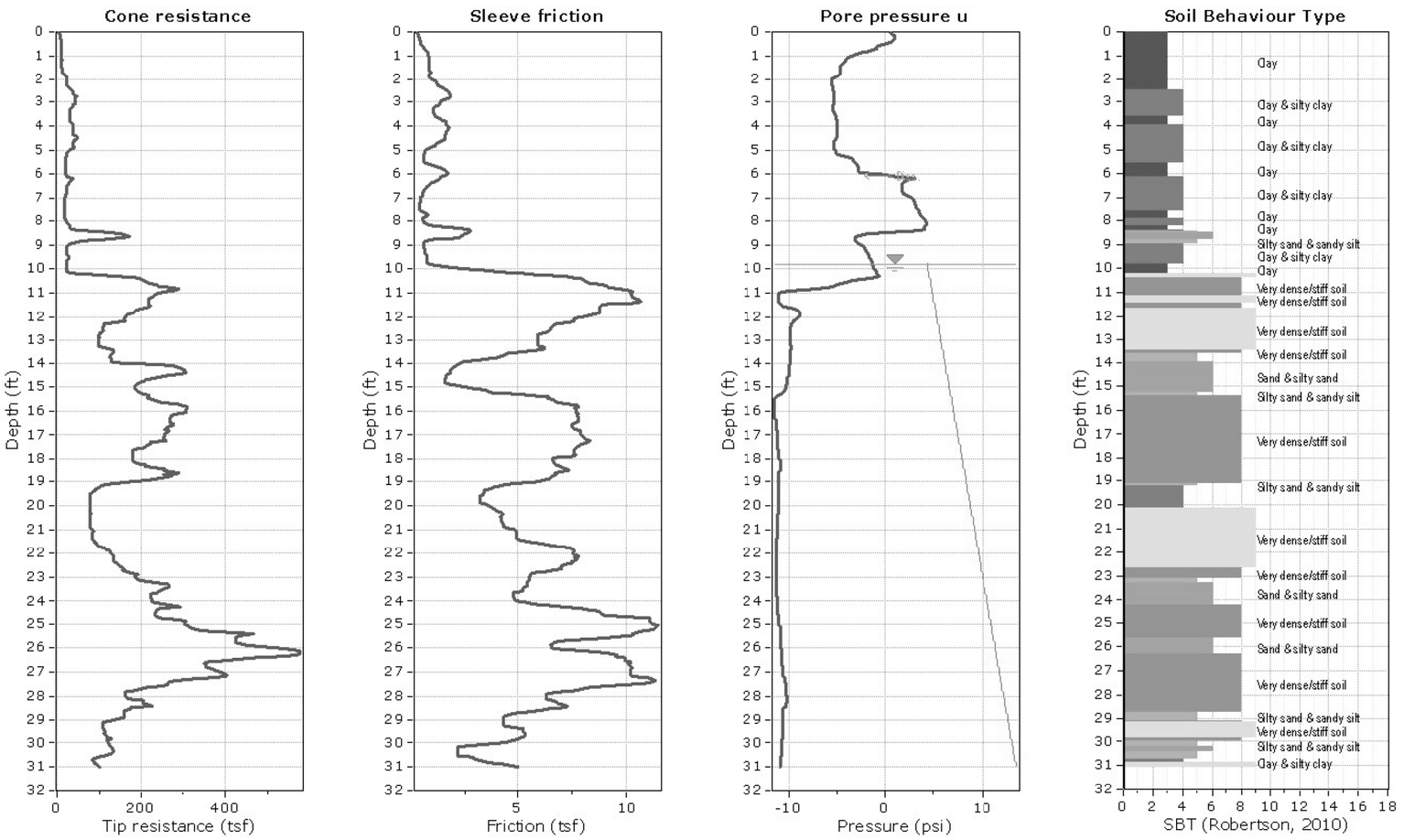
20/29

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Office of Geotechnical Engineering
Geology, Exploration, and Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County**

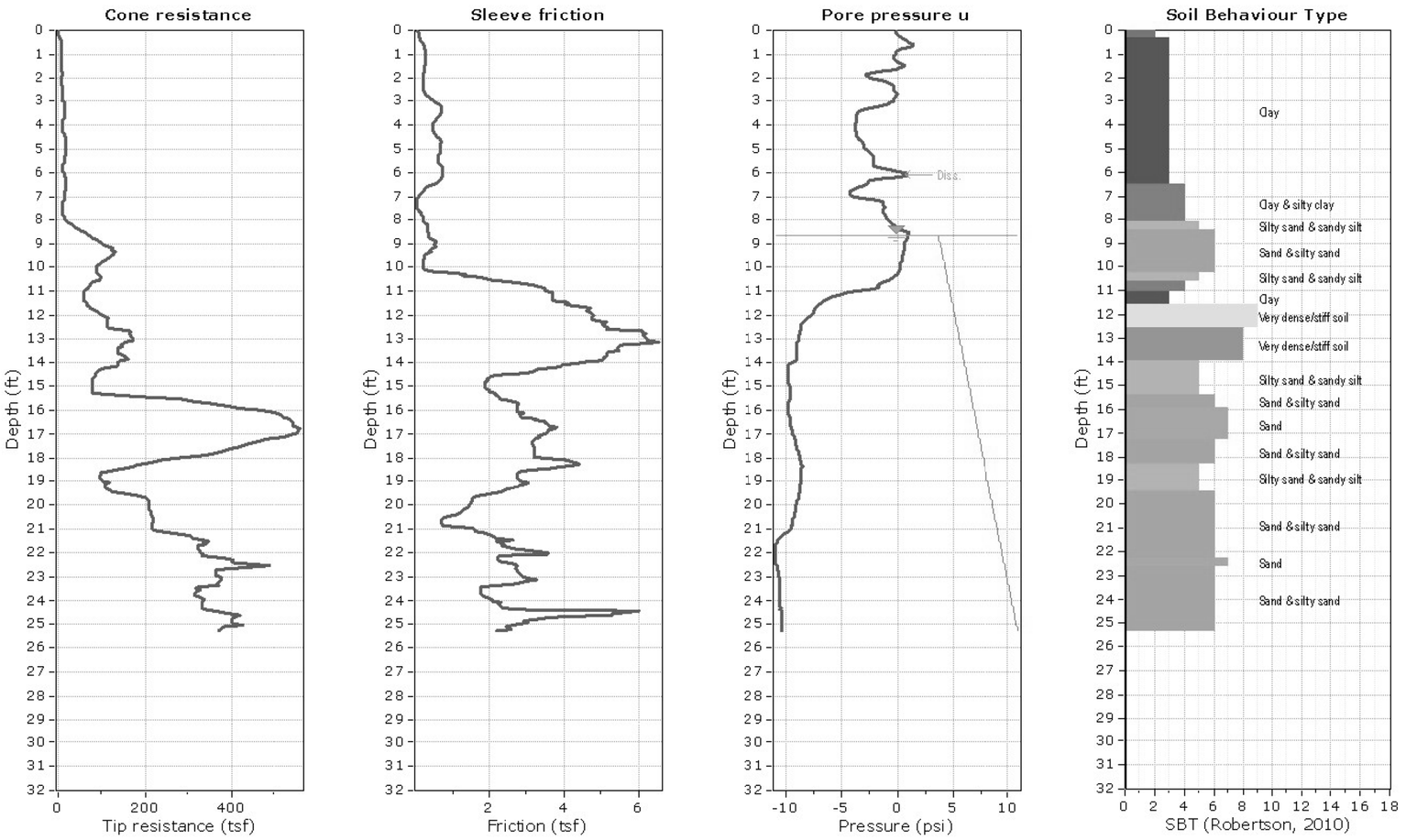
CPT: C-002-3-17
Total depth: 30.96 ft, Date: 12/6/2017
Surface Elevation: 702.80 ft
Coords: lat 39.41688° lon -82.971973°



Office of Geotechnical Engineering
Geology, Exploration, and Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County**

CPT: C-025-2-17
Total depth: 25.26 ft, Date: 12/7/2017
Surface Elevation: 685.37 ft
Coords: lat 39.415802° lon -82.971902°



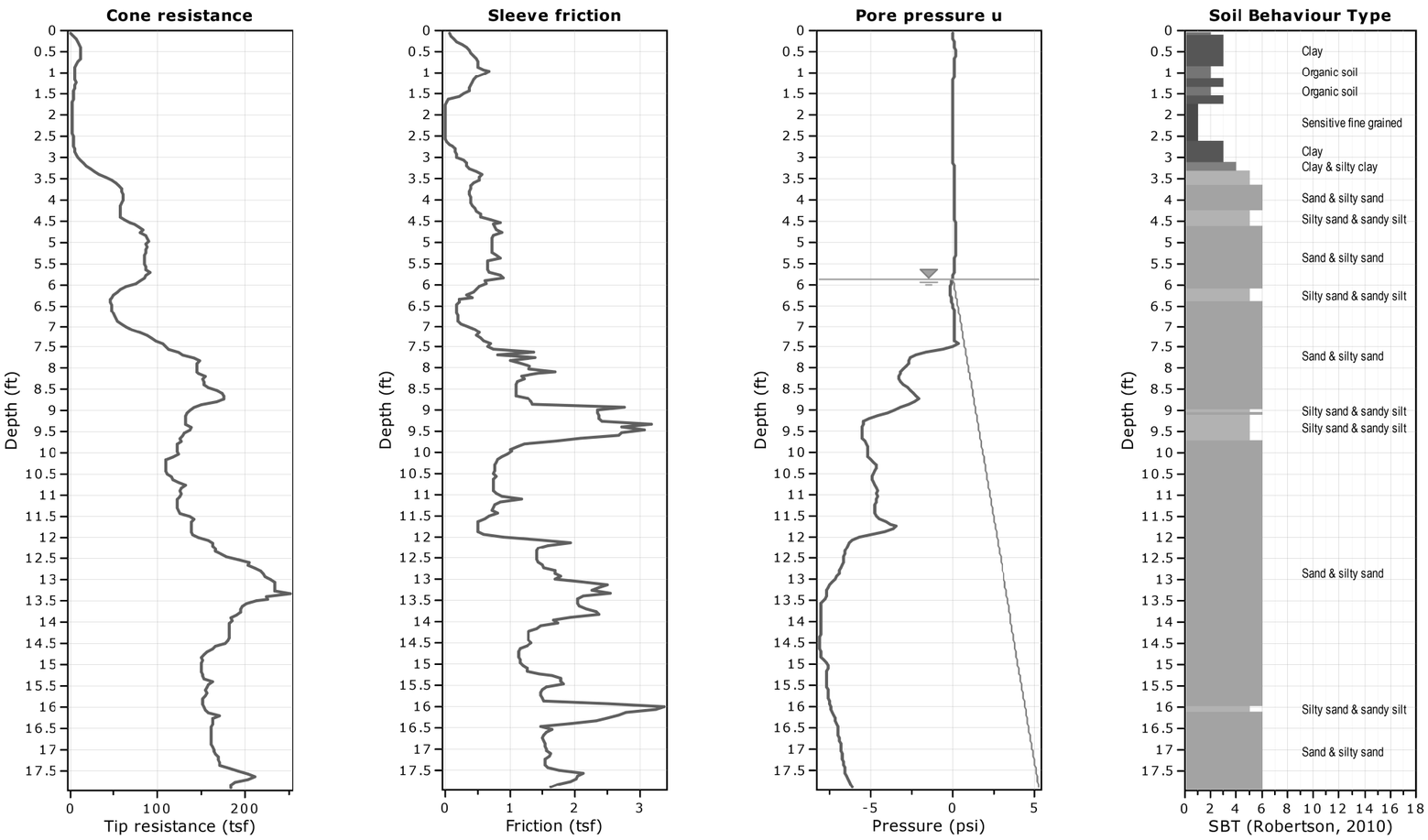
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OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-034-1-18
Total depth: 17.91 ft, Date: 8/23/2018
Surface Elevation: 683.67 ft
Coords: lat 39.41811° lon -82.966752°

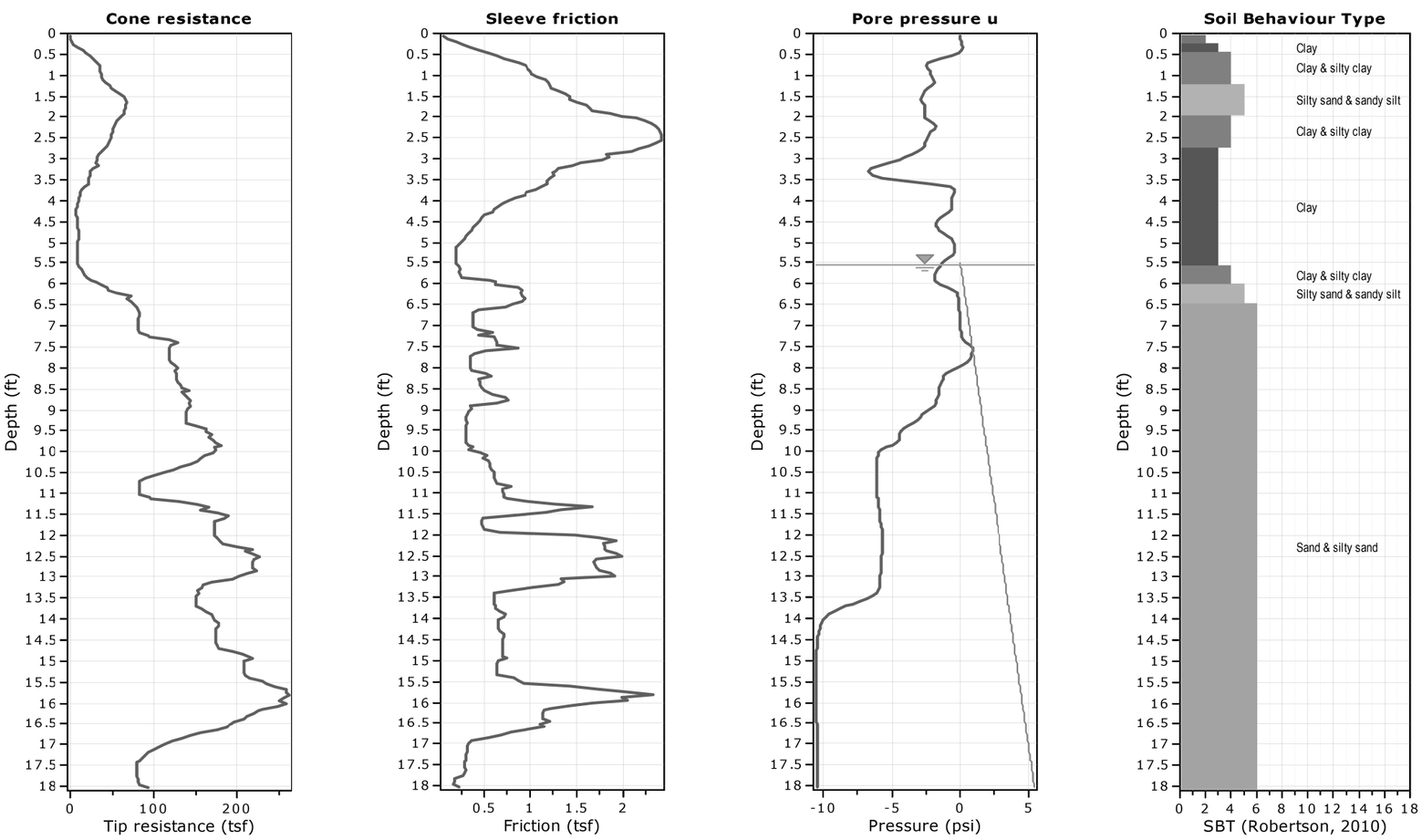


OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-034-2-18
Total depth: 18.03 ft, Date: 8/23/2018
Surface Elevation: 683.30 ft
Coords: lat 39.417837° lon -82.966656°



ROS-207-0.00

SOIL PROFILE
CPT EXPLORATION C-034-1-18 & C-034-2-18

DRAWN AJC
CHECKED SAT

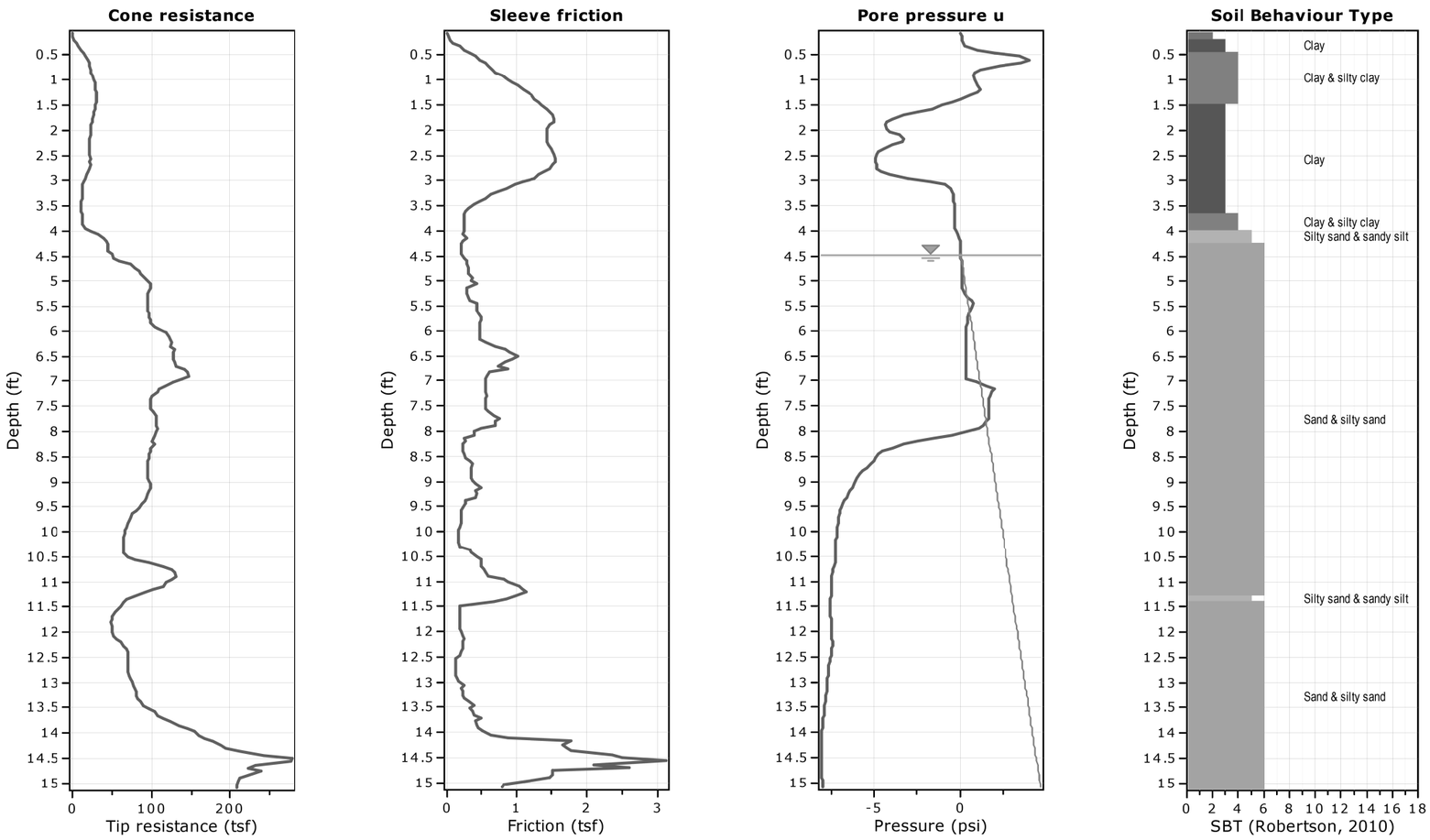
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OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-038-1-18
Total depth: 15.09 ft, Date: 8/22/2018
Surface Elevation: 684.45 ft
Coords: lat 39.419501° lon -82.960641°

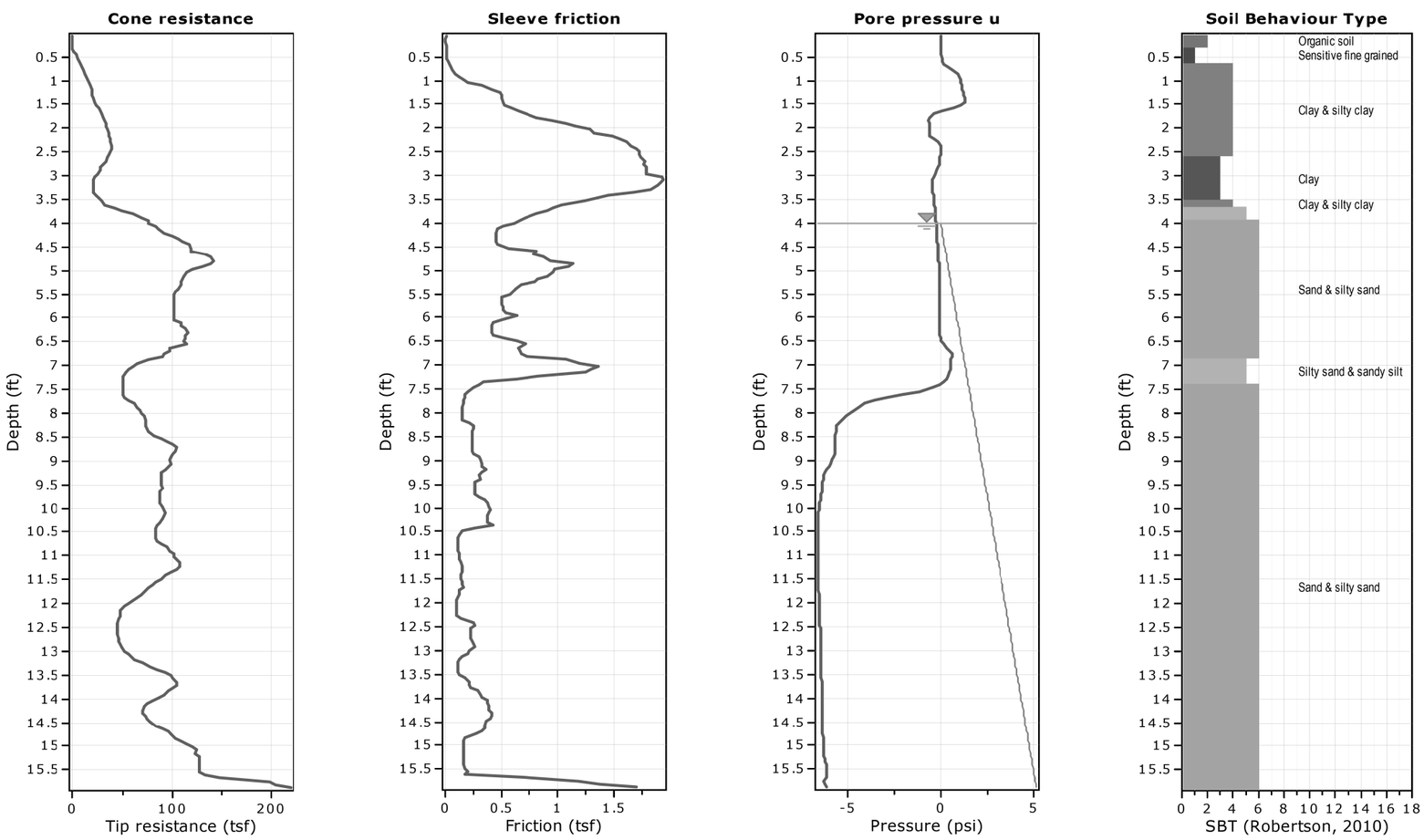


OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-038-2-18
Total depth: 15.87 ft, Date: 8/22/2018
Surface Elevation: 684.08 ft
Coords: lat 39.419237° lon -82.960542°



ROS-207-0.00

SOIL PROFILE
CPT EXPLORATION C-038-1-18 & C-038-2-18

DRAWN AJC
CHECKED SAT

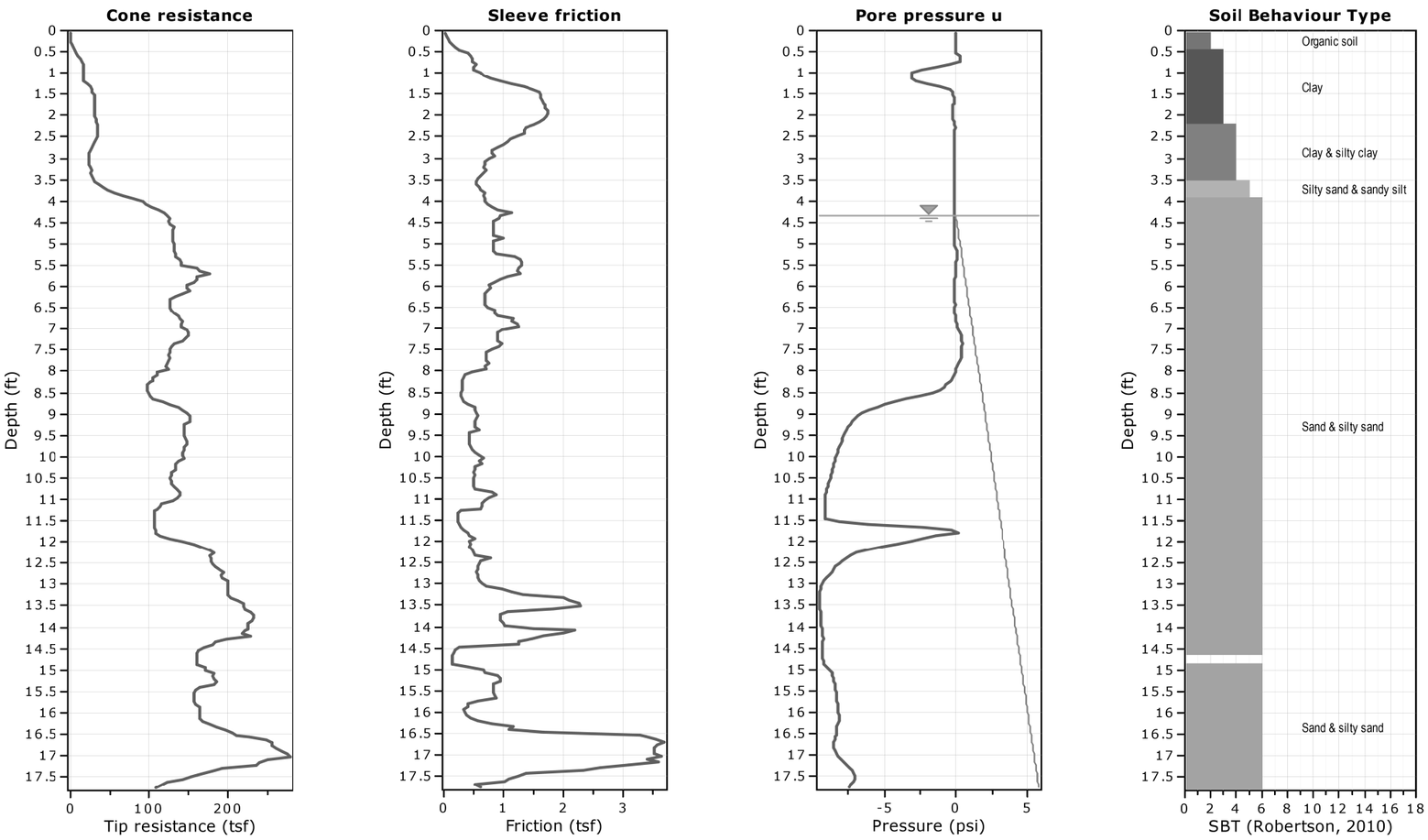
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OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-040-1-18
Total depth: 17.76 ft, Date: 8/22/2018
Surface Elevation: 685.03 ft
Coords: lat 39.419724° lon -82.958506°

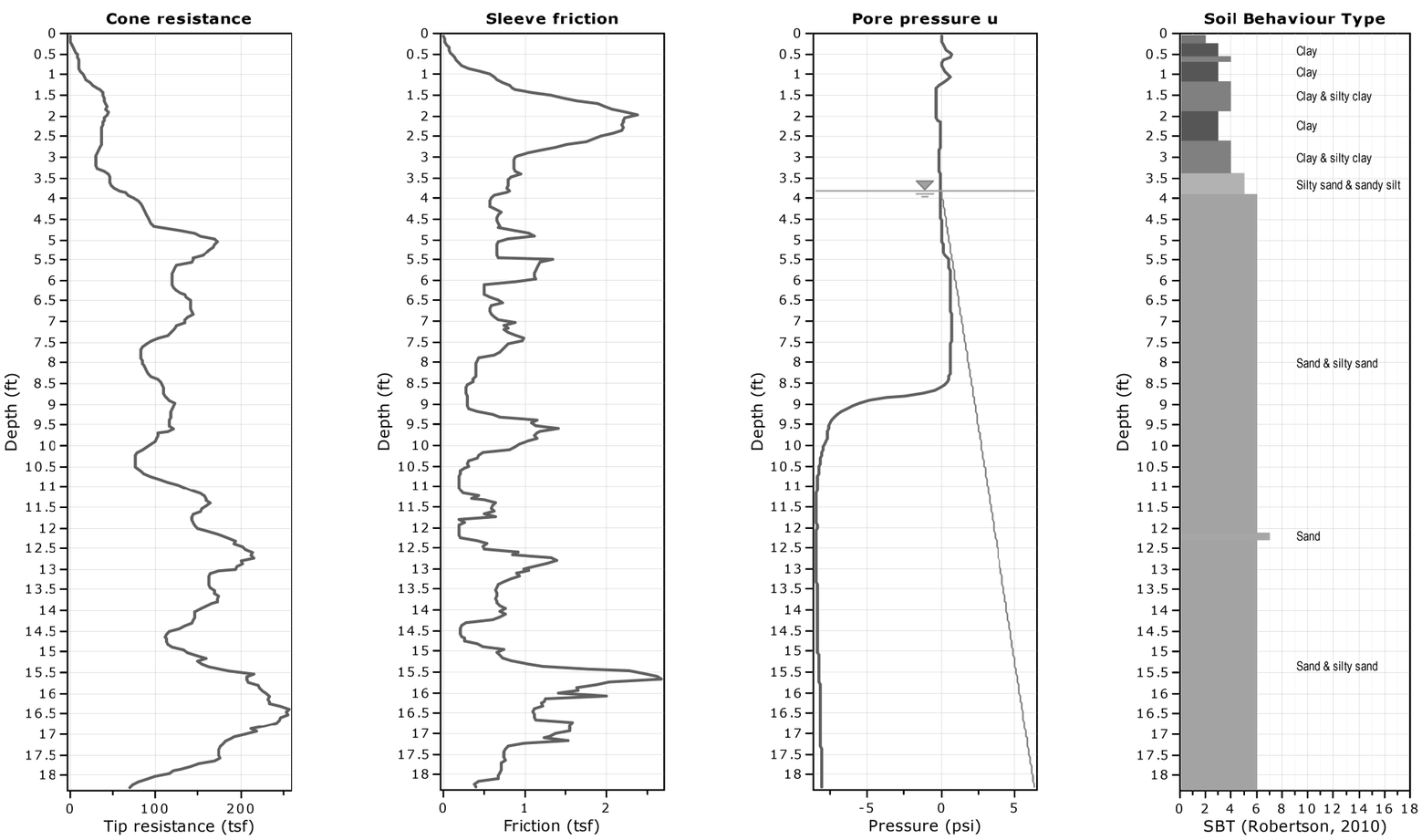


OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-040-2-18
Total depth: 18.30 ft, Date: 8/22/2018
Surface Elevation: 684.96 ft
Coords: lat 39.419531° lon -82.958498°



ROS-207-0.00

SOIL PROFILE
CPT EXPLORATION C-040-1-18 & C-040-2-18

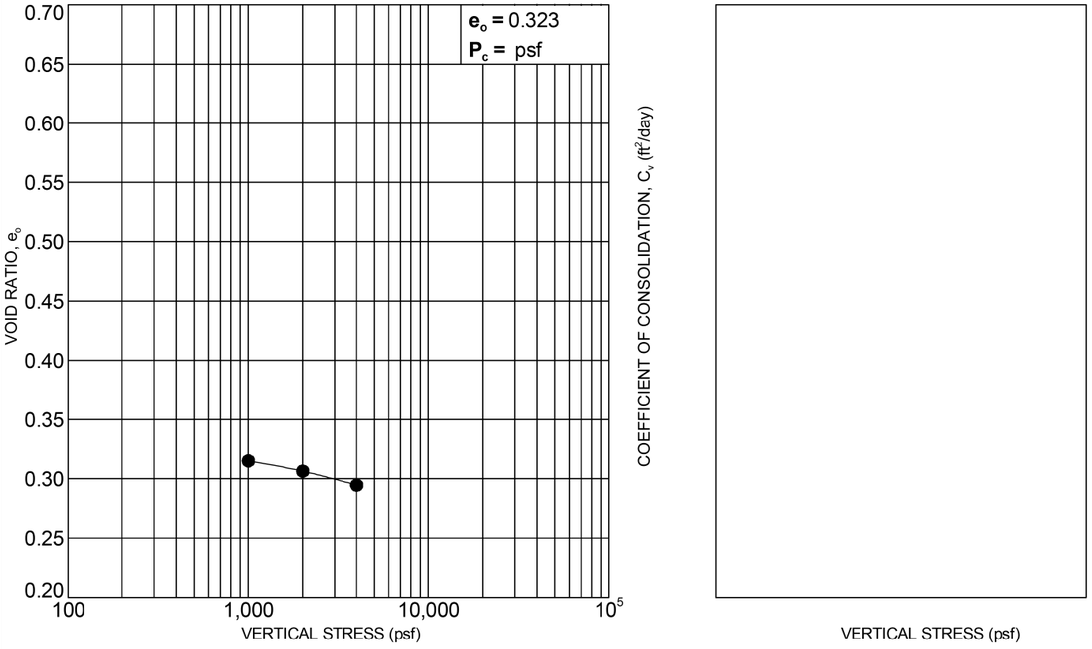
DRAWN AJC
CHECKED SAT

ONE-DIMENSIONAL CONSOLIDATION AASHTO T - 216 (Page 1 of 2)

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT ROS-207-00.00 **PID** 93744
OGE NUMBER 600538 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION
BORING ID: B-002-0-17 SAMPLE ID: ST-SS-3A
STATION: 176+57, 1' LT. DEPTH: 6.0 - 6.5 feet



SPECIMEN DETAILS

Initial Height, H_o =	1.005 in
Ring Diameter, D =	2.500 in
Initial Volume, V_o =	4.932 in^3
Initial (Total) Weight, W_{tot} =	0.401 lb
Dry Weight, W_{dry} =	0.360 lb
Initial Water Content, WC_o =	11.7 %
Wet (Total) Unit Weight, γ_{tot} =	140.68 pcf
Dry Unit Weight, γ_{dry} =	125.99 pcf
Volume of Solids, V_s =	3.728 in^3
Initial Saturation, S_o =	96.4 %
Final Water Content, WC_f =	5.9 %
Final Wet Weight, $W_{wet,f}$ =	0.391 lb
Final Dry Unit Weight, $\gamma_{dry,f}$ =	134.35 pcf
Final Saturation, S_f =	85.2 %
Final Void Ratio, e_f =	0.273
C_c =	C_r =
P_o =	OCR =

TEST DETAILS

METHOD OF TESTING: "Method B"
CONDITION OF TEST: "Natural Moisture Content"
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES:

TESTED BY: AW

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL

ATTERBERG LIMITS / MOISTURE

LL	PL	PI	WC
			14

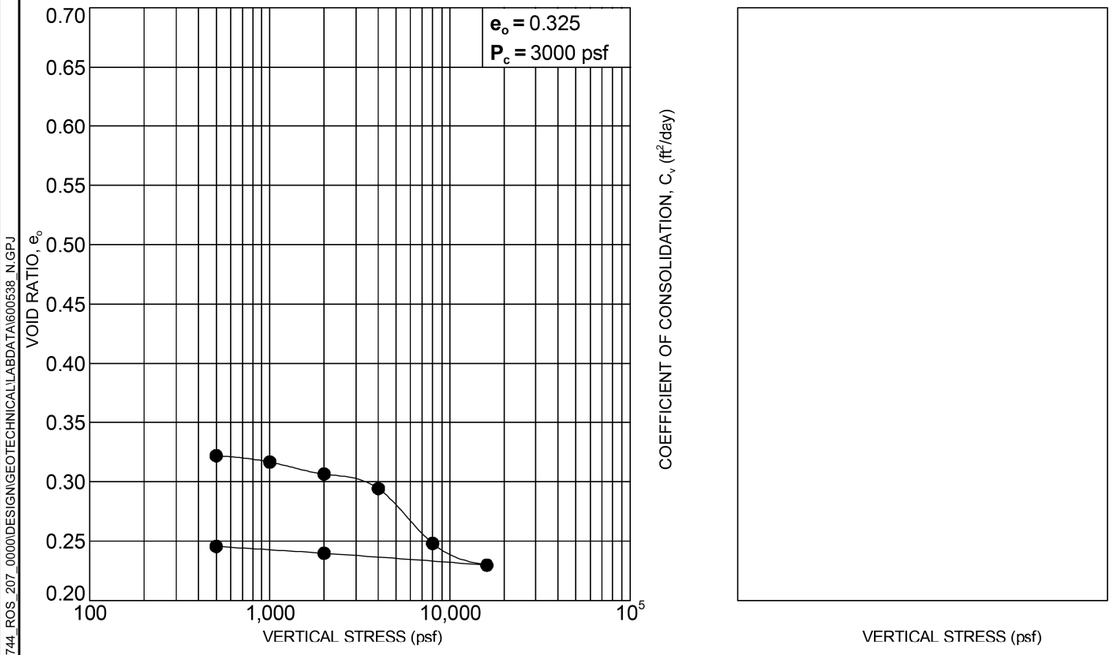
ODOT CLASS: HP (tsf): 2.5
DESCRIPTION:

ONE-DIMENSIONAL CONSOLIDATION AASHTO T - 216 (Page 1 of 2)

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT ROS-207-00.00 **PID** 93744
OGE NUMBER 600538 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION
BORING ID: B-002-0-17 SAMPLE ID: ST-SS-3B
STATION: 176+57, 1' LT. DEPTH: 6.5 - 7.5 feet



SPECIMEN DETAILS

Initial Height, H_o =	1.004 in
Ring Diameter, D =	2.500 in
Initial Volume, V_o =	4.928 in^3
Initial (Total) Weight, W_{tot} =	0.400 lb
Dry Weight, W_{dry} =	0.359 lb
Initial Water Content, WC_o =	11.6 %
Wet (Total) Unit Weight, γ_{tot} =	140.41 pcf
Dry Unit Weight, γ_{dry} =	125.78 pcf
Volume of Solids, V_s =	3.719 in^3
Initial Saturation, S_o =	95.5 %
Final Water Content, WC_f =	6.6 %
Final Wet Weight, $W_{wet,f}$ =	0.397 lb
Final Dry Unit Weight, $\gamma_{dry,f}$ =	134.24 pcf
Final Saturation, S_f =	98.6 %
Final Void Ratio, e_f =	0.288
C_c = 0.130	C_r = 0.016
P_o = 780 psf	OCR = 3.846

TEST DETAILS

METHOD OF TESTING: "Method B"
CONDITION OF TEST: "Natural Moisture Content"
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES: SAMPLE COLLECTED IN OFFSET BORING.

TESTED BY: AW

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
27	8	13	27	25

ATTERBERG LIMITS / MOISTURE

LL	PL	PI	WC
30	16	14	12

ODOT CLASS: A-6a HP (tsf): 2.5
DESCRIPTION: Very Stiff, Brown, **SILT AND CLAY**, SOME STONE FRAGMENTS, SOME SAND, DAMP

DRAWN AJC CHECKED SAT

SOIL PROFILE
CONSOLIDATION TEST RESULTS, B-002-0-17

ROS-207-0.00

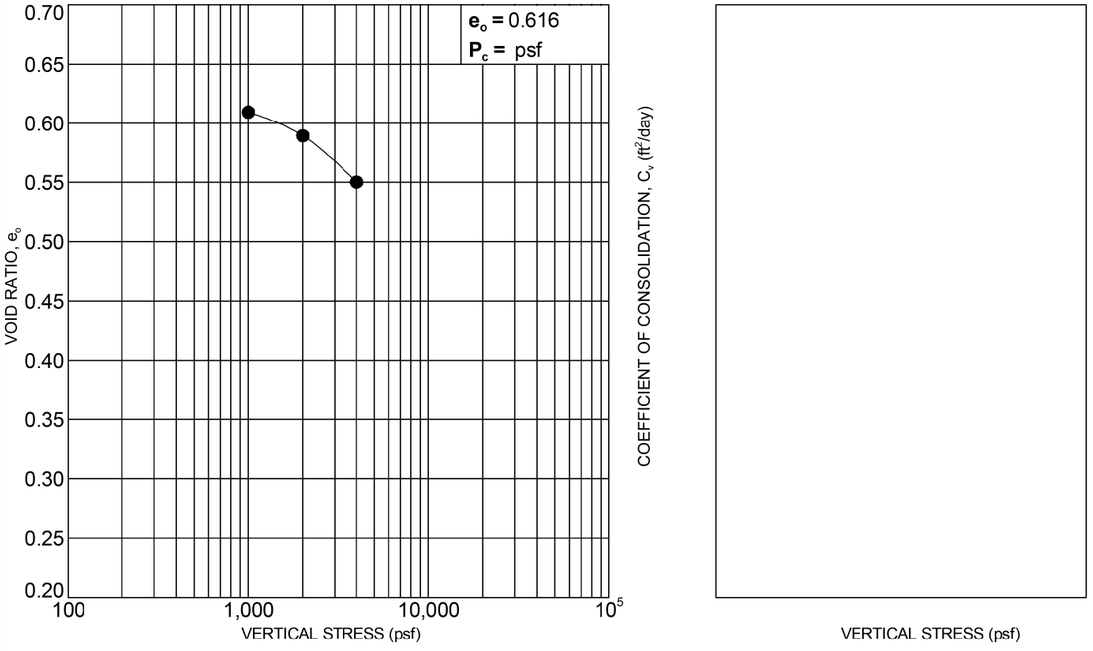
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OHDOT CONSOLIDATION - PAGE 1 - OH DOT.GDT - 1/3/19 14:01 - I:\PROJECTDATA\ROS\93744_ROS_207_0000\DESIGN\GEOTECHNICAL\LABDATA\600538_N.GPJ

ONE-DIMENSIONAL CONSOLIDATION
AASHTO T - 216
(Page 1 of 2)

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT ROS-207-00.00 **PID** 93744
OGE NUMBER 600538 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION
BORING ID: B-025-1-17 SAMPLE ID: ST-SS-3A
STATION: 90+99, 82' RT. DEPTH: 6.0 - 6.5 feet



SPECIMEN DETAILS

Initial Height, H_o =	0.999 in
Ring Diameter, D =	2.500 in
Initial Volume, V_o =	4.902 in^3
Initial (Total) Weight, W_{tot} =	0.343 lb
Dry Weight, W_{dry} =	0.293 lb
Initial Water Content, WC_o =	17.2 %
Wet (Total) Unit Weight, γ_{tot} =	120.94 pcf
Dry Unit Weight, γ_{dry} =	103.15 pcf
Volume of Solids, V_s =	3.034 in^3
Initial Saturation, S_o =	74.7 %
Final Water Content, WC_f =	12.5 %
Final Wet Weight, $W_{wet,f}$ =	0.339 lb
Final Dry Unit Weight, $\gamma_{dry,f}$ =	109.55 pcf
Final Saturation, S_f =	74.8 %
Final Void Ratio, e_f =	0.567
C_c =	C_r =
P_o =	OCR =

TEST DETAILS

METHOD OF TESTING: "Method B"
CONDITION OF TEST: "Natural Moisture Content"
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES:

TESTED BY: AW

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
			22

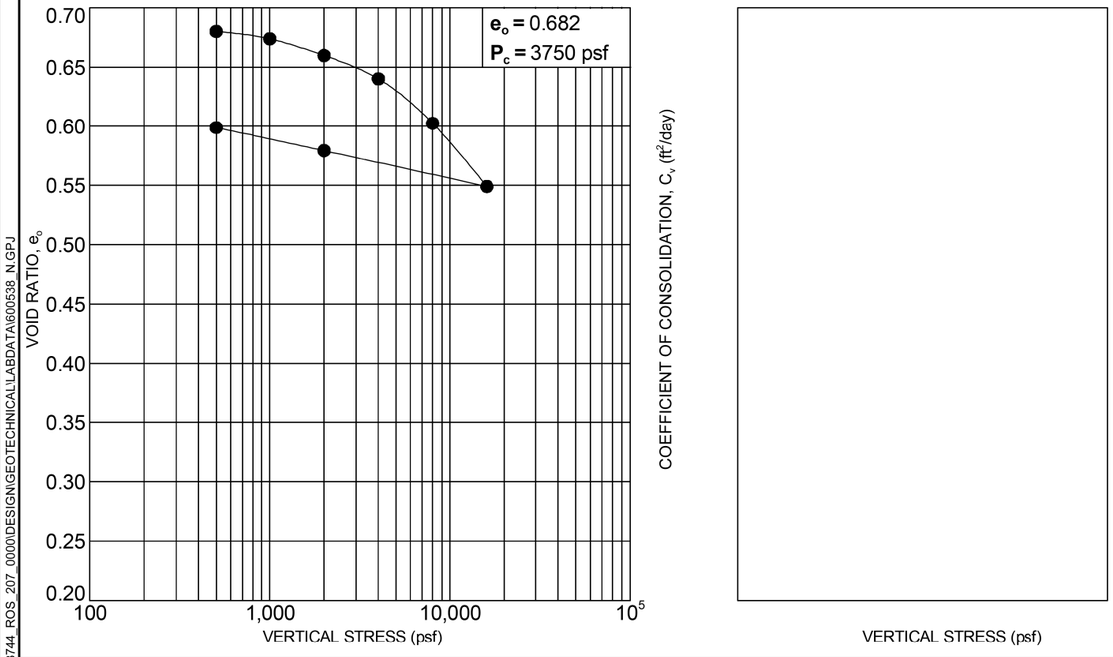
ODOT CLASS: HP (tsf): 2.0
DESCRIPTION:

ONE-DIMENSIONAL CONSOLIDATION
AASHTO T - 216
(Page 1 of 2)

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT ROS-207-00.00 **PID** 93744
OGE NUMBER 600538 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION
BORING ID: B-025-1-17 SAMPLE ID: ST-SS-3B
STATION: 90+99, 82' RT. DEPTH: 6.5 - 7.5 feet



SPECIMEN DETAILS

Initial Height, H_o =	1.003 in
Ring Diameter, D =	2.500 in
Initial Volume, V_o =	4.923 in^3
Initial (Total) Weight, W_{tot} =	0.351 lb
Dry Weight, W_{dry} =	0.282 lb
Initial Water Content, WC_o =	24.3 %
Wet (Total) Unit Weight, γ_{tot} =	123.15 pcf
Dry Unit Weight, γ_{dry} =	99.11 pcf
Volume of Solids, V_s =	2.927 in^3
Initial Saturation, S_o =	95.0 %
Final Water Content, WC_f =	11.9 %
Final Wet Weight, $W_{wet,f}$ =	0.347 lb
Final Dry Unit Weight, $\gamma_{dry,f}$ =	114.80 pcf
Final Saturation, S_f =	102.8 %
Final Void Ratio, e_f =	0.593
C_c = 0.140	C_r = 0.027
P_o = 780 psf	OCR = 4.808

TEST DETAILS

METHOD OF TESTING: "Method B"
CONDITION OF TEST: "Natural Moisture Content"
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES: SAMPLE COLLECTED IN OFFSET BORING.

TESTED BY: AW

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
16	4	11	46	23

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
28	19	9	24

ODOT CLASS: A-4a HP (tsf): 2.0
DESCRIPTION: VERY STIFF, BROWN, **SANDY SILT**, SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST

DRAWN AJC CHECKED SAT

SOIL PROFILE
CONSOLIDATION TEST RESULTS, B-025-1-17

ROS-207-0.00

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HORIZONTAL SCALE IN FEET
0 5 10 20

DRAWN AJC
CHECKED SAT

STRUCTURAL FOUNDATION EXPLORATION
CULVERT NO. ROS-207-000

ROS-207-0.00

27/29

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PROJECT: ROS-207-00.00
TYPE: ROADWAY
PID: 93744 SFN: N/A
START: 8/21/18 END: 8/21/18

DRILLING FIRM / OPERATOR: ODOT / BINKLEY
SAMPLING FIRM / LOGGER: ODOT / PAINTER
DRILLING METHOD: 3.75" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 850R TRACKED
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 6/1/17
ENERGY RATIO (%): 81

STATION / OFFSET: 200+01, 0' RT.
ALIGNMENT: CL S.R. 207
ELEVATION: 681.1 (MSL) EOB: 12.5 ft.
LAT / LONG: 39.418556, -82.963968

EXPLORATION ID B-036-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 681.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (16")	679.8																		
STIFF, BROWN AND BLACK, **SILTY CLAY**, SOME SAND, SOME GRAVEL, SLIGHTLY ORGANIC (LOI = 3.9%), MOIST	676.7	▼ 679.1	1 3 3	8	56	SS-1	1.75	20	6	14	27	33	37	15	22	25	A-6b (10)	-	
			0 1 1	3	50	SS-2A	2.00	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
VERY LOOSE, BROWN AND OLIVE GRAY, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, MOIST	674.8					SS-2B	-	14	26	17	32	11	NP	NP	NP	18	A-4a (2)	-	
		▼ 674.8				SS-3A	-	-	-	-	-	-	-	-	-	22	A-4a (V)	-	
MEDIUM DENSE, BROWN AND GRAY, **GRAVEL WITH SAND**, TRACE SILT, TRACE CLAY, WET @6.3'; 3.0' OF HEAVING SAND ENCOUNTERED @8.5'; 0.5' OF HEAVING SAND ENCOUNTERED @11.0'; 2.0' OF HEAVING SAND ENCOUNTERED	668.6	EOB	6 8 8 7 5 6 5 5 12	22 15 23	78 72 89	SS-3B SS-4 SS-5	- - -	- 48 -	- 28 -	- 10 -	- 9 -	- 5 -	- NP -	- NP -	- NP -	12 13 13	A-1-b (V) A-1-b (0) A-1-b (V)	- - -	

NOTES: HOLE CAVED AT 4.8 FEET. LAT/LONG/ELEV FROM CONSULTANT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE PELLETS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 12/14/18 12:40 - I:\PROJECTDATA\ROS\93744_ROS_207_0000\DESIGN\GEOTECHNICAL\LABDATA\600538_N.GPJ

ROS-207-0.00

STRUCTURAL FOUNDATION EXPLORATION
CULVERT NO. ROS-207-000
BORING LOG B-036-0-18

DRAWN AJC
CHECKED SAT

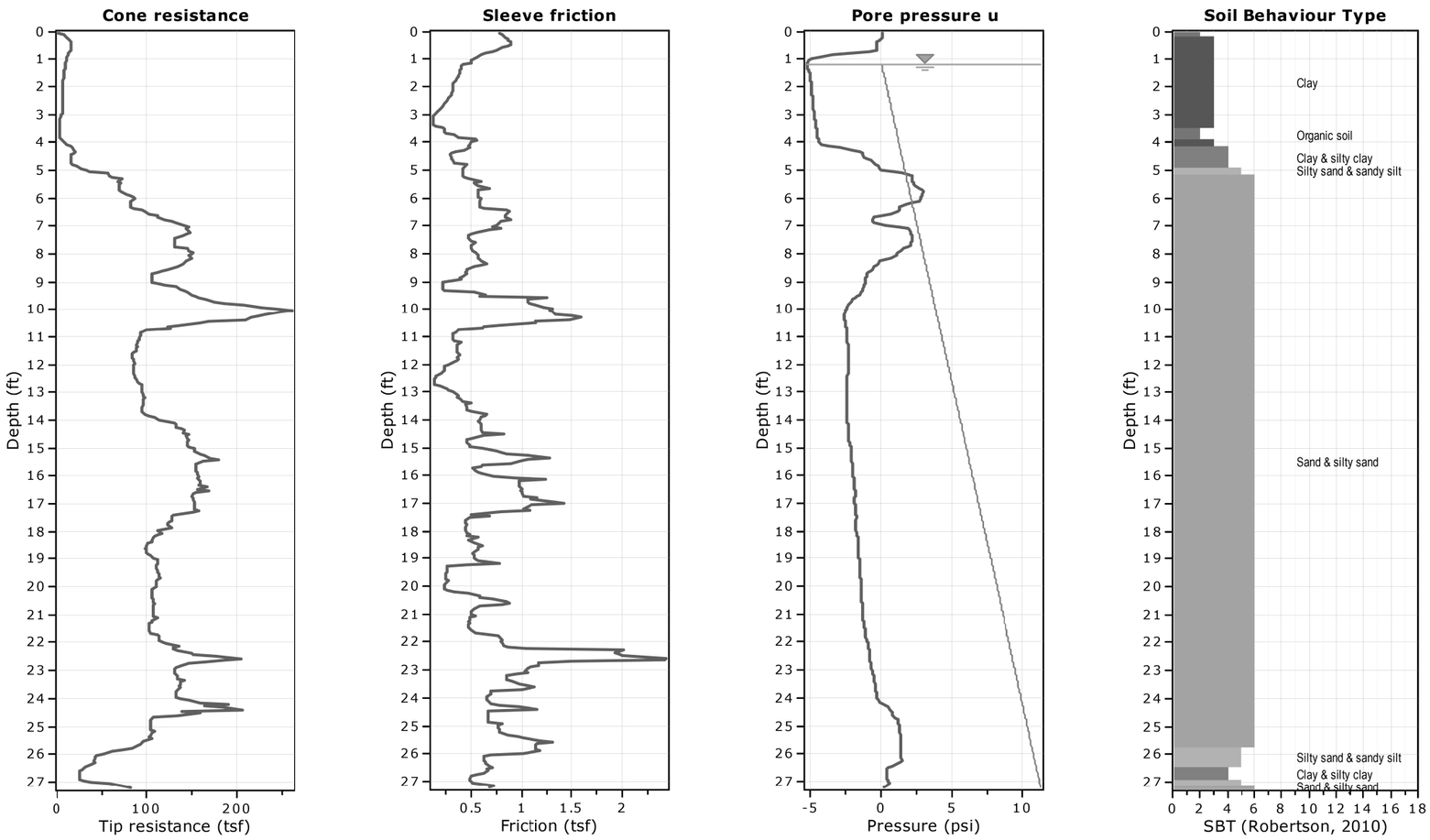
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OHIO DEPARTMENT OF TRANSPORTATION

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-036-1-18
Total depth: 27.21 ft, Date: 8/22/2018
Surface Elevation: 680.93 ft
Coords: lat 39.418687° lon -82.964018°

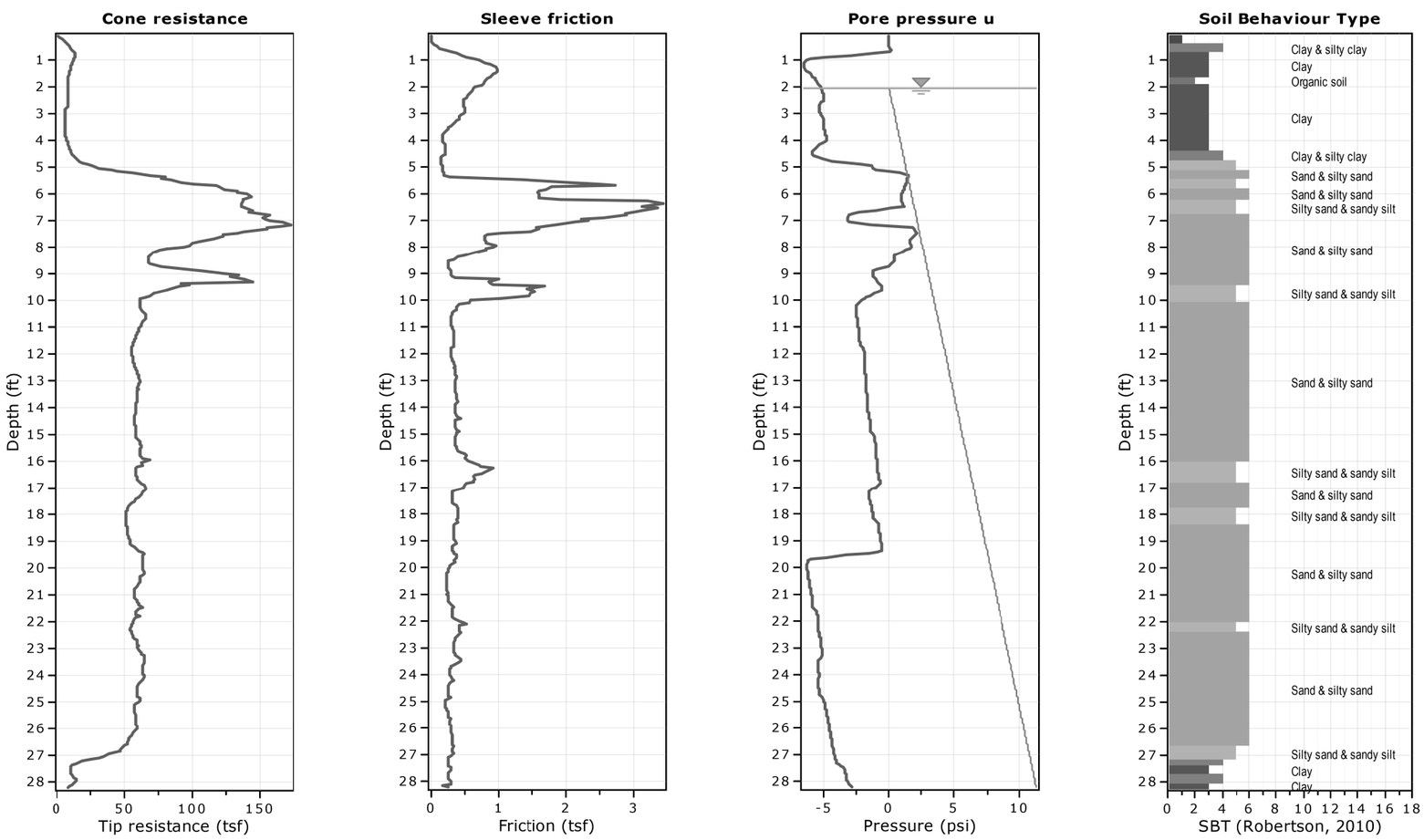


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http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Project: **ROS-207-0.00**
Location: **Ross County, Ohio**

CPT: C-036-2-18
Total depth: 28.20 ft, Date: 8/22/2018
Surface Elevation: 681.37 ft
Coords: lat 39.418424° lon -82.963924°



ROS-207-0.00

STRUCTURAL FOUNDATION EXPLORATION
CULVERT NO. ROS-207-000

DRAWN AJC
CHECKED SAT