THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Andrew W Warren Date: 2026.05.28 12:44:32-04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

COMPANY NAME: BARGE DESIGN SOLUTIONS, INC.
ADDRESS: 520 W SUMMIT HILL DR SW #1202
CITY, STATE KNOXVILLE, TN
PE NAME, PE NUMBER: ANDREW WARREN 130719

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
STANDARD TRAFFIC DESIGN & STRUCTURE DRAWINGS	1A2
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TYPICAL SECTIONS	2B1 – 2B4
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F, 2F1
DETAIL SHEET	2G
UTILITY NOTES AND UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE	3A
PROPERTY MAP	3B – 3C
PRESENT LAYOUT	4 – 11
RIGHT-OF-WAY DETAILS	4A – 11A
PROPOSED LAYOUT	4B – 11B
PROPOSED PROFILE	4C – 11C
SIDE ROAD PROFILES	12 – 14
HAUL ROAD PROFILES	15 – 19
DRAINAGE MAP	20 – 21
CULVERT CROSS-SECTION	22
EROSION PREVENTION AND SEDIMENT CONTROL NOTES	23
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	24, 25-27G
SIGNING AND PAVEMENT MARKING PLANS	28 – 35
SIGN SCHEDULE SHEETS	36 – 38
ROADWAY CROSS SECTIONS	39 – 125
SIDE ROAD CROSS SECTIONS	126 – 176
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1
TRAFFIC CONTROL NOTES, LEGEND, AND TABULATION	T2
RIVERPORT ROAD GENERAL TRAFFIC CONTROL	T3
TRAFFIC CONTROL PLANS	T4 – T27

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Andrew W Warren 2026.07.07 08:13:52-04'00'

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COMPANY NAME: BARGE DESIGN SOLUTIONS, INC.
ADDRESS: 520 W SUMMIT HILL DR SW #1202
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TABULATED QUANTITIES	2F1
PRESENT LAYOUT	11
PROPOSED LAYOUT	11B
SIDE ROAD CROSS SECTIONS	131 – 135, 144 – 176
TRAFFIC CONTROL NOTES, LEGEND, AND TABULATION	T2

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	ROADWAY-SIGN2

REV. 07-07-26:
ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Andrew W Warren 2026.08.24 15:23:12-04'00'

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COMPANY NAME: BARGE DESIGN SOLUTIONS, INC.
ADDRESS: 520 W SUMMIT HILL DR SW #1202
CITY, STATE KNOXVILLE, TN
PE NAME, PE NUMBER: ANDREW WARREN 130719

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN3
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TABULATED QUANTITIES	2F1

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	ROADWAY-SIGN3

REV. 08-20-26:
ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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SEE SHEET NO. 1A FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X
RAILROAD INVOLVEMENT	YES	NO X

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	N/A	
STATE PROJ. NO.	82956-3594-04	

REV. 07-07-26
REVISED PROJECT DESCRIPTION.

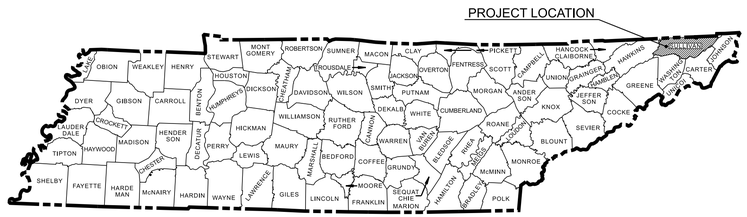
SULLIVAN COUNTY

SIA:
STATE INDUSTRIAL ACCESS SERVING
EASTMAN CHEMICAL COMPANY (GFT-22)

PS&E

GRADE, DRAIN, BASE, PAVE, BRIDGE, GUARDRAIL,
LIGHTING, WALLS, AND SIGNAL

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A

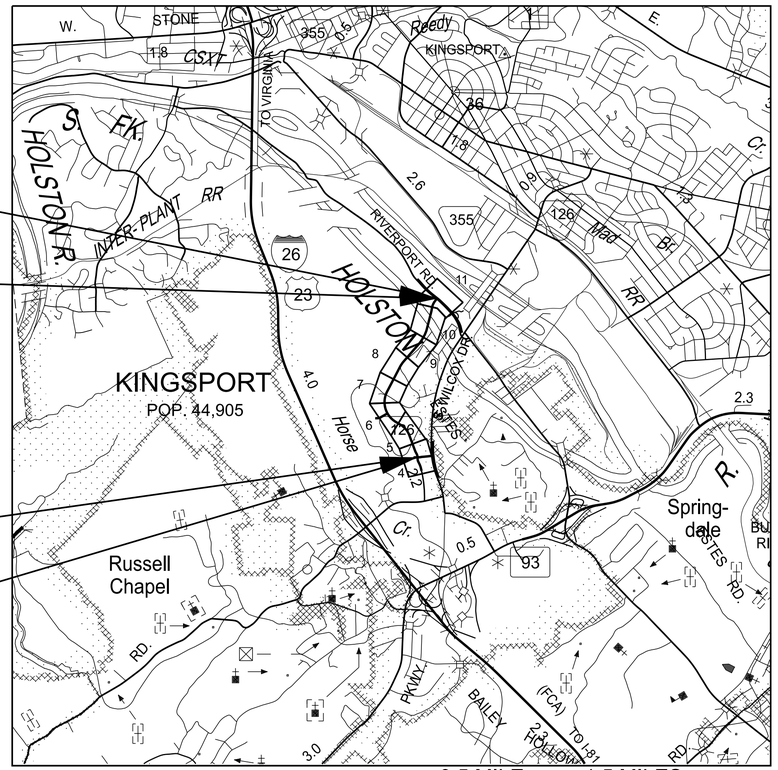


END PROJECT NO. 82956-2594-04 R.O.W.
STA. 74+59.91 MEADOW PARK LANE
N 817230.0859 E 2978747.9999

END PROJECT NO. 82956-3594-04 CONST.
STA. 74+35.91 MEADOW PARK LANE
N 817211.4044 E 2978732.9311

BEGIN PROJECT NO. 82956-3594-04 CONST.
STA. 10+00.00 MEADOW PARK LANE
N 811689.4126 E 2978062.6905

BEGIN PROJECT NO. 82956-2594-04 R.O.W.
STA. 10+00.00 MEADOW PARK LANE
N 811689.4126 E 2978062.6905



SCALE: 1"= 2640'

0.5 MILE 1.5 MILES
0 1 MILE

N

NO EXCLUSIONS

ROAD TO BE CLOSED
DURING CONSTRUCTION

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED APRIL 1, 2026 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

R.O.W. LENGTH	1.223 MILES
ROADWAY LENGTH	1.218 MILES
BRIDGE LENGTH	0.066 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	1.284 MILES

▲ Not included in the project length (Non Riding Surface).

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130715
STATE OF TENNESSEE
7/7/26

APPROVED:
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:
WILL REID,COMMISSIONER

TRAFFIC REC'D. 03-05-24

SURVEY 09-29-22	TRAFFIC DATA	
05-01-23	ADT (2026)	2540
05-08-24	ADT (2046)	3890
09-11-25	DHV (2046)	627
01-29-26	D	55 - 45
02-12-26	T (ADT)	6 %
02-24-26	T (DHV)	4 %
	V	40 MPH

COORDINATES ARE NAD/83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING GEOID 18

TDOT PROJECT MANAGER: JEFF BRANHAM, PE, PTOE
DESIGNED BY: BARGE DESIGN SOLUTIONS
DESIGNER: ANDREW WARREN, P.E. CHECKED BY : ANDREA R. HALL, P.E.
P.E. NO. 82956-1594-04 (DESIGN)
PIN 131034.00

6/30/2026 3:13:50 PM
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PS&E INDEX OF SHEETS

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1 – ROADWAY-SIGN3
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
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TRAFFIC CONTROL PLANS	T4 – T27
BRIDGE PLANS	B-1
GEOTECHNICAL PLANS	G-1
LIGHTING PLANS	L-1
RETAINING WALL PLANS	R-1
SIGNAL PLANS	SIG-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1
UTILITIES PLANS	U1–1

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.

STANDARD ROADWAY DRAWINGS

NO PROJECT COMMITMENT SHEET INCLUDED IN THIS PLAN SET

10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2	02-20-20	STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	01-30-26	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

10-101.00 STANDARDS ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
RD18-TS-2	01-30-26	URBAN LOCAL ROADS AND STREETS
RD18-TS-2A	01-30-26	RURAL LOCAL ROADS AND STREETS
RD18-TS-3	01-30-26	URBAN MINOR COLLECTOR (2-3 LANE)
RD18-TS-3A	01-30-26	RURAL MINOR COLLECTOR (2-LANE)
RD18-RTS-1		DESIGN STANDARDS FOR SINGLE LANE URBAN AND RURAL ROUNDABOUTS
RD18-RTS-3	04-30-25	STANDARD CONSTRUCTION DETAILS FOR ROUNDABOUTS
RD18-RSD-1		SIGHT DISTANCE FOR URBAN AND RURAL ROUNDABOUT
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SA-1	04-30-26	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD11-SD-4		INTERSECTION SIGHT DISTANCE 4-LANE AND 5-LANE UNDIVIDED ROADWAYS

10-102.00 AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS

DWG.	REV.	DESCRIPTION
D-AOP-1		AOP DESIGN RECESSED PIPE CULVERTS
D-AOP-2		AOP DESIGN RECESSED BOX CULVERTS
D-AOP-3		AOP DESIGN EMBEDDED BOX CULVERTS
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	06-28-19	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-30A	04-30-26	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-36A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)

10-104.00 CATCH BASINS AND MANHOLES

DWG.	REV.	DESCRIPTION
D-CB-12P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12RB	02-20-20	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN FOR USE WITH 6" VERTICAL CURB
D-CB-14P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	02-20-20	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-99R	01-28-22	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	10-29-21	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CBB-12A	06-28-19	TYPE ‘B’ CAST IRON FRAME, GRATE & VERTICAL INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-CBB-12D	07-07-23	TYPE "B" CAST IRON FRAME, GRATE & CURB HOOD DETAILS FOR NOS. 12, 14, 16 & 17 TYPE CATCH BASINS
D-RL-1		ROUND LID DETAILS FOR SINGLE CURB AND WALL INLET
D-RL-2		ROUND LID DETAILS FOR DOUBLE CURB AND WALL INLET
D-RS-1		PRECAST ROUND STRUCTURES (48” THRU 120”)
D-RS-2		PRECAST ROUND STRUCTURES REINFORCEMENT DETAILS
D-RS-3	01-30-26	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-RF-1	07-30-24	STANDARD PRECAST RISER

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	1A
PS&E	2026	82956-3594-04	1A

REV. 07-07-26:
ADDED ROADWAY-SIGN2 TO SHEET INDEX.

REV. 08-20-26:
ADDED ROADWAY-SIGN3 TO SHEET INDEX.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
PERICHOPHONE
COMMERCE
No. 130718
STATE OF TENNESSEE

8/20/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	1A1
PS&E	2026	82956-3594-04	1A1

DWG.	REV.	DESCRIPTION
10-105.00		**ROADWAY, PAVEMENT APPURTENANCES, AND FENCES**
RP-I-5	05-01-20	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	04-21-25	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS
RP-SC-1	05-04-22	SLOPING CONCRETE CURB AND CURB AND GUTTER
RP-VC-11	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 6” & 7” GUTTER DEPTH)
W-CIP-1	05-01-20	ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL
S-F-1	03-01-23	HIGH VISIBILITY FENCE
10-106.00		**MULTIMODAL**
CR-GN-1	04-30-26	GENERAL NOTES CURB RAMP
CR- GN-2	04-30-26	CURB RAMP NUMBERING
CR-DWS-1	04-30-26	DETECTABLE WARNING SURFACE DETAIL
CR-PLL-1	04-30-26	PUSH BUTTON LOCATION LAYOUT
CR-CRT-1	04-30-26	CURB RAMP TYPES
CR-GTL-1	04-30-26	GUTTER TRANSITION LAYOUT
CR-GT-2	04-30-26	GUTTER TRANSITION LAYOUT
CR-PL-2	04-30-26	PARALLEL CURB RAMP PLACEMENT LAYOUT
CR-20	04-30-26	PARALLEL CURB RAMP 5 – FT SIDEWALK
CR-22	04-30-26	COMBINATION CURB RAMP
CR-51	04-30-26	PEDESTRIAN REFUGE
MM-SW-1	04-30-26	DETAILS FOR CONCRETE SIDEWALKS
10-107.00		**SAFETY DESIGN AND GUARDRAILS**
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	04-30-26	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-7	04-30-26	SAFETY PLAN HARDWARE PLACEMENT AT INTERSECTIONS
S-CC-1	10-01-24	CRASH CUSHION
S-GR31-1	10-31-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
S-GRC-5	10-31-25	GUARDRAIL CONNECTION TO BRIDGE ENDS (TRAILING ENDS)
S-GRC-6	10-31-25	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS
S-CPW-1		CURVED PARAPET WALL ≤ 40 M.P.H.
S-GRS-7	04-30-26	SHORT RADIUS-GR SYSTEM (SRGS) CONNECTION TO BRIDGE END
S-GRS-7A	07-30-24	SHORT RADIUS-GUARDRAIL SYSTEM (SRGS) ANCHOR DETAILS
S-GRS-7B		SHORT RADIUS-GR SYSTEM (SRGS) EYE-BOLT SPACING DETAILS
S-GRS-8		SAFETY PLAN AT SIDEROADS OR DRIVEWAYS FOR LOW SPEED ROADWAYS
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
10-108.00		**EROSION PREVENTION AND SEDIMENT CONTROL**
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-30	01-01-10	INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-21	05-04-22	PERMANENT RIPRAP BASIN ENERGY DISSIPATORS
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130711
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	1A2
PS&E	2026	82956-3594-04	1A2

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-200.00	**SIGN**	
T-S-6	07-30-25	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-9	07-30-25	STANDARD LAYOUT - GROUND MOUNTED SIGNS
T-S-10	07-30-25	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
T-S-12	07-30-25	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-30-25	I-BEAM BREAK-AWAY LARGE SIGN SUPPORT DETAILS
T-S-14	07-30-25	WF-BEAM BREAK-AWAY LARGE SIGN SUPPORT DETAILS
T-S-16	07-30-25	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	07-30-25	END OF ROADWAY, DEAD END SIGNS, AND METAL BARRICADES (TYPE III)
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS
T-S-21	07-30-25	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-23A	07-30-25	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-23B	07-30-25	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-30-25	BREAKWAY POST SIGN SUPPORTS
T-S-25	07-30-25	SIGNING PLAN DETAILS FOR ROUNDABOUTS
10-201.00	**SIGNALS**	
T-SG-2	12-18-25	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	12-18-25	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A	12-18-25	ALTERNATE DETECTION DETAILS
T-SG-5	12-18-25	CONTROLLER CABINET DETAILS
T-SG-6	12-18-25	PEDESTRIAN SIGNAL DETAILS
T-SG-7	12-18-25	SIGNAL HEAD ASSEMBLIES
T-SG-7C	12-18-25	TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES
T-SG-7E	12-18-25	TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-7H	12-18-25	TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE AND FOUR-LANE APPROACHES
T-SG-8	12-18-25	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	12-18-25	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	12-18-25	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	12-18-25	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	12-18-25	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	12-18-25	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

DWG.	REV.	DESCRIPTION
10-202.00	**LIGHTING AND UTILITY POLES**	
T-L-1	07-15-24	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	07-15-24	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-1TM	07-15-24	STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-2	07-15-24	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON CONCRETE MEDIAN BARRIER
T-L-3	07-15-24	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	07-15-24	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-L-5		STANDARD LIGHTING DETAILS CONTROL CENTER DETAILS
10-204.00	**DESIGN - TRAFFIC CONTROL**	
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-17	01-24-25	PAVEMENT MARKING DETAILS FOR ROUNDABOUTS
T-WZ-22		ONE LANE CLOSURE DETAIL FOR UNDIVIDED HIGHWAYS
T-WZ-32	03-26-25	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	03-26-25	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	03-26-25	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-40	03-26-25	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-26-25	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-55	03-26-25	SIDEWALK TRAFFIC CONTROL
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB1	03-26-25	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2A	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	07-22-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
10-300.00	**NEW STRUCTURES**	
STD-1-1SS	07-09-25	BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET
STD-1-5	06-05-23	REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS
STD-5-1		STANDARD PILE DETAILS
STD-8-6	10-03-18	TRI-STAR STATE EMBLEM FINISH DETAILS
STD-9-1	10-07-08	STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS
STD-10-1	06-05-23	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS
STD-10-2	06-05-23	MISC. ABUTMENT & PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS
STD-11-2	04-15-20	STANDARD CONCRETE CLASSIC RAIL
STD-11-3	04-15-20	STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL
STD-14-2	03-06-24	STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR I-BEAMS
STD-14-3	03-06-24	STANDARD DETAILS FOR PRESTRESSED BOX BEAMS
10-301.00	**LRFD BOX CULVERTS**	
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY OF DRAWINGS
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTIONS AND DETAILS
STD-17-6		TYPICAL ELEVATION
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL AND SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTIONS
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-25		STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-6")
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-52		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL

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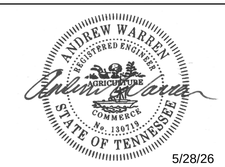

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
TRAFFIC DESIGN
& STRUCTURE
DRAWINGS

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ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 82956-3594-04
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)	202-01.13	REMOVAL OF PIPE (SEE PLANS SHEET 2F1)	L.F.	713
(1)	202-01.50	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	EACH	16
	202-03	REMOVAL OF RIGID PAVEMENTS, SIDEWALKS, ETC.	S.Y.	600
	202-08.10	REMOVAL OF CURB (EXISTING ROUNDABOUT)	L.F.	800
	202-08.15	REMOVAL OF CURB AND GUTTER (EXISTING ROUNDABOUT)	L.F.	1500
(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	88915
(2)(3)(29)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	42423
(2)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	10138
(2)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	9185
	203-06	WATER	M.G.	520
(4)	203-50	CONSTRUCTION OF HAUL ROADS	LS	1
	204-01	CULVERT EXCAVATION (UNCLASSIFIED)	C.Y.	200
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	125
(5)	208-01.05	BROOMING AND DEGRASSING SHOULDERS	L.M.	0.36
(6)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	200
(6)	209-05	SEDIMENT REMOVAL	C.Y.	650
(6)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	19000
(6)	209-08.07	ROCK CHECK DAM	EACH	100
(6)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	12
(6)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
(6)	209-40.46	CATCH BASIN PROTECTION (TYPE 6)	EACH	53
(6)	209-40.47	CATCH BASIN PROTECTION (TYPE 7)	EACH	6
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	370
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	20000
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	900
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	100
(29)	303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	4551
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	5000
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3800
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	30
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2700
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	6000
	501-01.01	PORTLAND CEMENT CONCRETE PAVEMENT 8" (PLAIN)	S.Y.	280
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	76
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	16700
(9)	604-07.01	RETAINING WALL (R1, STA. 113+18.00 TO STA. 118+60.00 RT RIVERPORT ROAD)	S.F.	2200
(10)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	4447
(10)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	44
(10)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	238
(11)	607-50.12	PRECAST CONCRETE BOX CULVERT (8' X 3')	L.F.	82
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	20
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1200
	611-07.61	30" ENDWALL (CROSSDRAIN) 4:1	EACH	1
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	26
	611-12.02	CATCH BASINS, TYPE 12, 4' - 8' DEPTH	EACH	26
	611-12.03	CATCH BASINS, TYPE 12, 8' 12' DEPTH	EACH	1
	611-14.02	CATCH BASINS, TYPE 14, 4' - 8' DEPTH	EACH	6
(8)	620-05.01	CONC PARAPET SINGLE SLOPE (STD-1-1SS)	L.F.	542
(12)	621-03.11	72" TEMPORARY DRAINAGE PIPE	L.F.	780
(28)	701-01.01	CONCRETE SIDEWALK (4")	S.F.	5000
	701-02.01	CONCRETE CURB RAMP RETROFIT	S.F.	150
	701-02.03	CONCRETE CURB RAMP	S.F.	1000
	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.	30
	702-01	CONCRETE CURB	C.Y.	60
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	1200
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	2
	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	2539
	705-06.02	W BEAM GR (TYPE 2) MASH TL3 (LONG POST)	L.F.	395
	705-06.11	GR TERMINAL (INLINE) MASH TL3	EACH	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 82956-3594-04
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	10
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	8
	706-01	GUARDRAIL REMOVED	L.F.	590
	706-06.03	RADIUS RAIL	L.F.	100
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	600
	707-01.13	GATE - CHAIN-LINK FENCE-6 FOOT (TRACT 18 ACCESS CONTROL)	EACH	2
	707-06.01	REMOVAL OF FENCE (TRACTS 4 & 18)	L.F.	1670
	707-06.02	REMOVAL OF GATE (TRACT 4 STA. 54+30 LT.)	EACH	1
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1910
(13)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	101
(14)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	130
(15)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	2359
(16)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	225
	712-01	TRAFFIC CONTROL	LS	1
(17)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3100
(17)(18)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	6
(17)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
(17)	712-04.50	BARRIER RAIL DELINEATOR	EACH	40
(17)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	100
(17)	712-06	SIGNS (CONSTRUCTION)	S.F.	513
(17)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	400
(17)	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	1800
	713-02.21	SIGN POST DELINEATION ENHANCEMENT	L.F.	42
	713-11.01	"U" SECTION STEEL POSTS	LB.	350
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	1000
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	400
	713-15.35	METAL BARRICADE (TYPE III)	EACH	4
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
(19)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	17
(19)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	200
(19)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	14
(19)	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	740
(19)	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSSWALK)	L.F.	250
(19)	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	6
(19)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	80
(19)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	3
(19)(20)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	8
	717-01	MOBILIZATION	LS	1
(21)	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1
(6)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	8622
(6)(29)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	15541
(6)	740-11.03	TEMPORARY SEDIMENT TUBE 18 IN	L.F.	646
(22)	801-01	SEEDING (WITH MULCH)	UNIT	100
(23)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	500
(24)	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	6
(22)	801-02	SEEDING (WITHOUT MULCH)	UNIT	400
(25)	801-03	WATER (SEEDING & SODDING)	M.G.	100
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	300
(6)(22)(26)	803-01	SODDING (NEW SOD)	S.Y.	19930
(6)(22)(27)	805-01.01	TURF REINFORCEMENT MAT (CLASS I)	S.Y.	5000
(22)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	32000

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	1A
FUNCT.	2025	82956-2594-04	2
PIH	2026	82956-3594-04	2
PS&E	2026	82956-3594-04	2

REV. 07-07-26:
REMOVED ITEM NOS. 402-01, 402-02
ADDED ITEM NOS. 303-10.07, 707-01.11, 707-01.13

REV. 08-20-26:
ADDED SUPPLEMENTAL DESCRIPTIONS TO
ITEM NOS. 202-01.13, 202-08.10, 202-08.15, 707-01.13.
ADDED ITEM NOS. 707-06.01, 707-06.02.
REVISED ITEM NO. 202-01.50

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	1A
FUNCT.	2025	82956-2594-04	2-1
PIH	2026	82956-3594-04	2-1
PS&E	2026	82956-3594-04	2-1

REV. 08-20-26:
REVISED NOTE 1.

FOOTNOTES

(1) SEE REMOVAL OF STRUCTURES TABLE ON SHEET 2F1.
(2) SEE GRADING SPECIAL NOTES ON SHEET 2D
(3) INCLUDES 6207 TONS TO BE USED FOR TEMPORARY STREAM CROSSING AND 36216 TONS FOR FILL ABOVE WTL-1/WTL-2
(4) HAUL ROAD SHALL BE CONSTRUCTED WITHIN PROPOSED RIGHTS-OF-WAY AND EASEMENTS WITHIN THE PROJECT LIMITS AS DEFINED IN THE CONTRACT PLANS. PAYMENT OF THIS ITEM INCLUDES ALL REQUIREMENTS FOR INSTALLATION INCLUDING GRADING, ROCK, GEOTEXTILE, AND 57 STONE NEEDED FOR BUILDING OF THE HAUL ROAD, MAINTENANCE OF THE HAUL ROAD DURING THE LIFE OF THE PROJECT, AND THE REMOVAL OF THE HAUL ROAD TO PREEXISTING CONDITIONS INCLUDING SEEDING AND STRAWING UPON COMPLETION OF THE HAUL ROAD REMOVAL. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CLEARING, SURVEYING OR INCIDENTALS DUE TO THE LOCATION CHOSEN BY THE CONTRACTOR FOR ACCESS TO THE SITE. THE CONTRACTOR IS REQUIRED TO SUBMIT A PROPOSED LOCATION AND PLAN FOR REVIEW AND APPROVAL TO THE TDOT MANAGER PRIOR TO CONSTRUCTION OF HAUL ROAD.
(5) INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK ON SOUTH WILCOX DRIVE, SPRING MEADOW COURT, PARK MEADOW PLACE, AND RIVERPORT ROAD.
(6) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(7) ITEM TO BE USED AS DIRECTED BY THE ENGINEER
(8) INCLUDED FOR CONCRETE PARAPET LOCATED ON RETAINING WALL R1 AND IS NOT INCLUDED IN THE COST OF THE RETAINING WALL
(9) ALL COST OF BUILDING AND INSTALLING THE RETAINING WALL, INCLUDING FOUDATION PREPARATION, BACKFILLING, AND EXCAVATION, SHALL BE INCLUDED IN THE SQUARE FOOTAGE COST OF THE RETAINING WALL. QUANTITIES FOR FOUNDATION PREPARATION, BACKFILL, AND EXCAVATION ARE REFLECTED IN THE END AREA CALCULATIONS ON CROSS SECTIONS AND IN GRADING QUANTITY ROADWAY ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (C.Y.). THE DESIGNER HAS NOTED THE PORTION OF THIS QUANTITY FOR THESE ITEMS ON THE PROFILE SHEET 14 AND ON THE GRADING QUANITITY TABULATION SHEET. THE PORTION OF THIS QUANTITY HAS BEEN REMOVED FROM ROADWAY ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (C.Y.). FOR FURTHER INFORMATION, SEE RETAINING WALL PLANS.
(10) BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE STANDARD DRAWING NO. D-PB-1 AND D-PB-2 FOR ADDITIONAL DETAILS.
(11) CULVERT EXCAVATION FOR CONCRETE BOX CULVERT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
(12) TO BE USED FOR TEMPORARY CULVERT CROSSING ON HAUL ROAD 2. QUANTITY IS BASED ON MINIMUM CALCULATIONS. ACTUAL SIZE AND LENGTH WILL BE DETERMINED BASED ON FIELD CONDITIONS ENCOUNTERED AND INSTALLED AT NO ADDITIONAL COST.
(13) TO BE USED FOR TEMP. CONST. EXITS
(14) TO BE USED AT OUTFALLS SPECIFIED ON PROPOSED LAYOUT SHEETS. INCLUDES 15 TONS FOR EW 1A, 13 TONS FOR EW 16A, 58 TONS FOR EW 18A, 30 TONS FOR EW 24A, 10 TONS FOR EW 43A, 4 TONS FOR EW 60.
(15) INCLUDES 25 TONS FOR EW 27A, 1373 TONS FOR BRIDGE 1, AND 961 TONS FOR BRIDGE 2. SEE BRIDGE PLANS FOR ADDITIONAL INFORMATION.
(16) TO BE USED AT OUTFALLS SPECIFIED ON PROPOSED LAYOUT SHEETS. INCLUDES 31 TONS FOR EW 38A, AND 194 TONS FOR THE BOX CULVERT AT STA. 53+50.
(17) TO BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.
(18) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(19) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC. INCLUDES THE COST OF REMOVAL OF ANY
(20) CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION
(21) ITEM INCLUDES ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL FOR TRAFFIC CONTROL ON RIVERPORT ROAD.
(22) TO BE USED AS DIRECTED ON TYPICAL SECTIONS SHEETS 2B - 2B3. SEE SEEDING AND SODDING NOTES ON SHEET 2C.
(23) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
(24) SEE WETLAND SPECIAL NOTES ON SHEET 2E.
(25) INCLUDES 7 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(26) INCLUDES 9000 S.Y. FOR BERM AREAS, 200 S.Y. FOR ROADSIDE DITCHES AT ROUNDABOUT, 4500 S.Y. FOR ROADSIDE DITCHES FROM STA. 37+80 TO 46+00, 845 S.Y. FOR ROADSIDE DITCHES FROM STA. 70+00 TO 72+35, 625 S.Y. FOR ROADSIDE DITCHES ON FIRE TRAINING CENTER ROAD. SEE SPECIAL DITCHES TABULATED QUANTITY TABLE ON SHEET 2F1 FOR ADDITIONAL QUANTITIES.
(27) INCLUDES 4100 S.Y. FOR ROADSIDE DITCHES FROM STA. 13+00 TO 21+50. SEE SPECIAL DITCHES TABULATED QUANTITY TABLE ON SHEET 2F1 FOR ADDITIONAL QUANTITIES.
(28) INCLUDES A 2" LAYER OF BASE STONE UNDER SIDEWALK.
(29) SEE GEOTECHNICAL PLANS FOR MORE INFORMATION.

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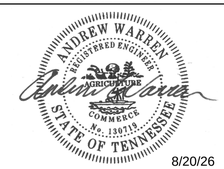

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

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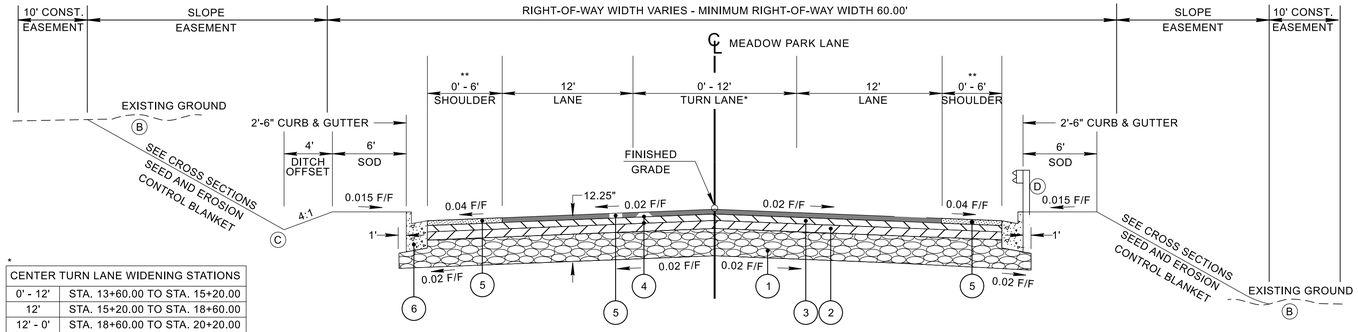
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	2B
FUNCT.	2025	82956-2594-04	2B
PIH	2026	82956-3594-04	2B
PS&E	2026	82956-3594-04	2B



TANGENT SECTION
(MEADOW PARK LANE)

(BASED ON STD. DWG. RD18-TS-3)

FROM STA. 10+00.00 TO STA. 17+62.65
FROM STA. 23+58.00 TO STA. 24+48.58
FROM STA. 37+74.75 TO STA. 46+27.00
FROM STA. 49+79.09 TO STA. 56+63.85
FROM STA. 63+64.67 TO STA. 68+84.93

*

CENTER TURN LANE WIDENING STATIONS	
0' - 12'	STA. 13+60.00 TO STA. 15+20.00
12'	STA. 15+20.00 TO STA. 18+60.00
12' - 0'	STA. 18+60.00 TO STA. 20+20.00
0' - 12'	STA. 24+40.00 TO STA. 26+00.00
12'	STA. 26+00.00 TO STA. 29+60.00
12' - 0'	STA. 29+60.00 TO STA. 31+20.00
0' - 12'	STA. 40+30.00 TO STA. 41+90.00
12'	STA. 41+90.00 TO STA. 45+30.00
12' - 0'	STA. 45+30.00 TO STA. 46+90.00
0' - 12'	STA. 60+80.00 TO STA. 62+40.00
12'	STA. 62+40.00 TO STA. 65+80.00
12' - 0'	STA. 65+80.00 TO STA. 67+40.00

Ⓐ THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

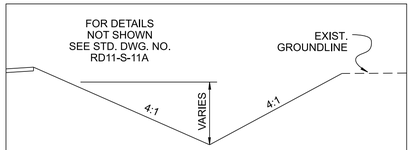
Ⓑ SEE STANDARD DRAWINGS RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

Ⓒ SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

Ⓓ GUARDRAIL AS REQUIRED. SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

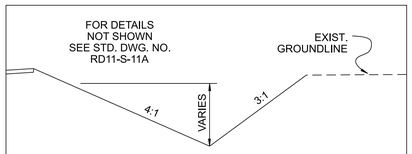
**

SHOULDER WIDENING STATIONS	
0' - 4'	STA. 11+55.00 TO STA. 12+65.00
4' - 6'	STA. 34+50.00 TO STA. 35+50.00
6' - 4'	STA. 37+80.00 TO STA. 38+80.00
4' - 6'	STA. 71+80.00 TO STA. 72+35.00



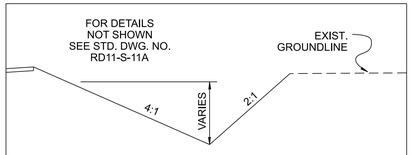
PROP. "V" BOTTOM SODDED DITCH (EXCEPT WHERE SPECIFIED TRM)

MEADOW PARK LANE	RIGHT STA. 10+33.79 TO STA. 11+60.00	SOD
MEADOW PARK LANE	RIGHT STA. 12+25.00 TO STA. 12+60.00	TRM
MEADOW PARK LANE	LEFT STA. 52+00.00 TO STA. 60+50.00	SOD



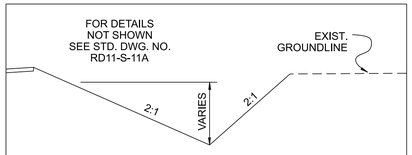
PROP. "V" BOTTOM SODDED DITCH (EXCEPT WHERE SPECIFIED TRM)

MEADOW PARK LANE	RIGHT STA. 11+60.00 TO STA. 11+70.00	TRM
MEADOW PARK LANE	RIGHT STA. 12+60.00 TO STA. 12+75.00	TRM
MEADOW PARK LANE	RIGHT STA. 22+00.00 TO STA. 24+25.00	SOD



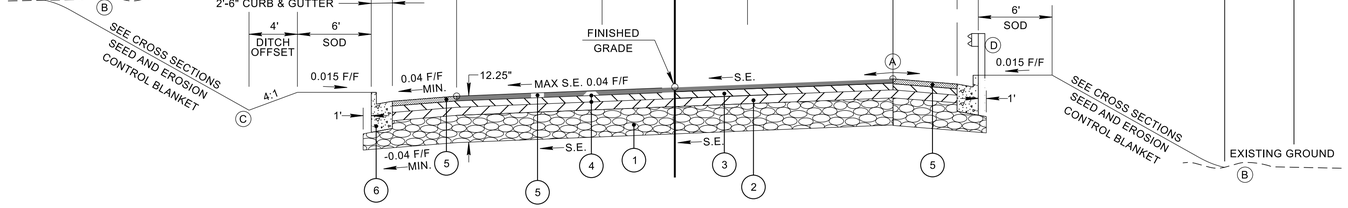
PROP. "V" BOTTOM TRM DITCH

MEADOW PARK LANE	RIGHT STA. 11+70.00 TO STA. 12+25.00	TRM
MEADOW PARK LANE	RIGHT STA. 12+75.00 TO STA. 13+00.00	TRM



PROP. "V" BOTTOM SODDED DITCH

MEADOW PARK LANE	LEFT STA. 30+00.00 TO STA. 36+50.00	SOD

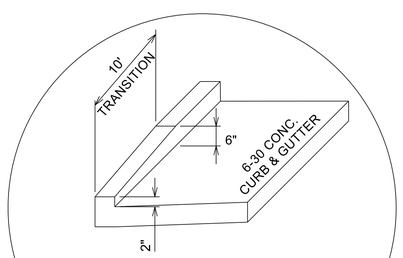


SUPERELEVATED SECTION
(MEADOW PARK LANE)

(BASED ON STD. DWG. RD18-TS-3)

FROM STA. 17+62.65 TO STA. 23+58.00
FROM STA. 24+48.58 TO STA. 37+74.75***
FROM STA. 46+27.00 TO STA. 49+79.09
FROM STA. 56+63.85 TO STA. 63+64.67
FROM STA. 68+84.93 TO STA. 74+35.91***

***BRIDGE STA. 35+75.50 TO STA. 37+55.50
BRIDGE STA. 72+55.70 TO 74+25.70
SEE SHEET 2B4 FOR BRIDGE TYPICALS



CURB TRANSITION DETAIL
FOR CURB & GUTTER

SEE STD. DWG. RP-VC-10 & RP-VC-11 FOR OTHER DETAILS

PROPOSED PAVEMENT SCHEDULE

① MINERAL AGGREGATE @ 6" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	⑤ ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING "D"
② BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"	⑥ CONCRETE COMBINED 6-30 CURB & GUTTER 702-03 FULL HEIGHT CURB 0.06409 C.Y./L.F. LOWERED CURB 0.05711 C.Y./L.F.
③ BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"	⑦ 4" SLOPING DETACHED CONCRETE CURB 702-01 FULL HEIGHT CURB 0.04320 C.Y./L.F.
④ TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD	⑧ 6" DETACHED CONCRETE CURB 702-01 FULL HEIGHT CURB 0.02950 C.Y./L.F. LOWERED CURB 0.02534 C.Y./L.F.

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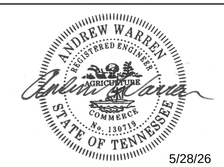

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STATE OF TENNESSEE
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TYPICAL SECTIONS
&
PAVEMENT SCHEDULE

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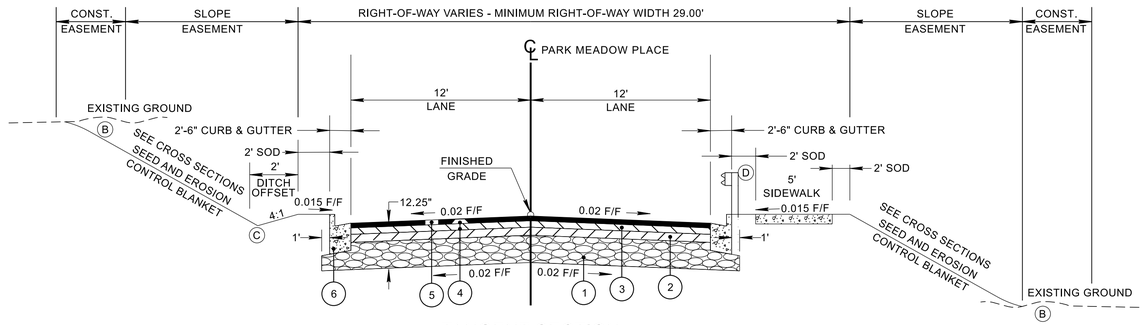
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	2B1
FUNCT.	2025	82956-2594-04	2B1
PIH	2026	82956-3594-04	2B1
PS&E	2026	82956-3594-04	2B1



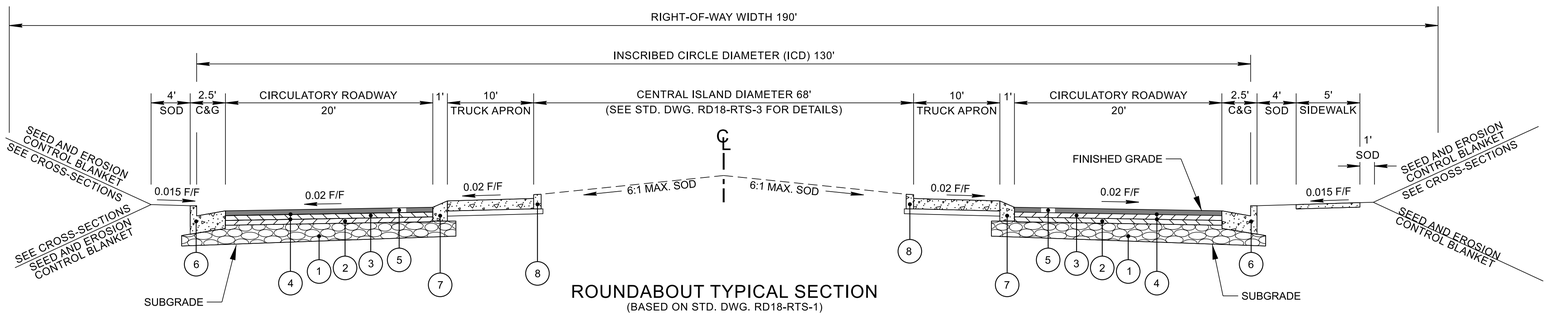
TANGENT SECTION (PARK MEADOW PLACE)

(BASED ON STD. DWG. RD18-TS-2)
FROM STA. 1+00.00 TO STA. 6+00.00

(B) SEE STANDARD DRAWINGS RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

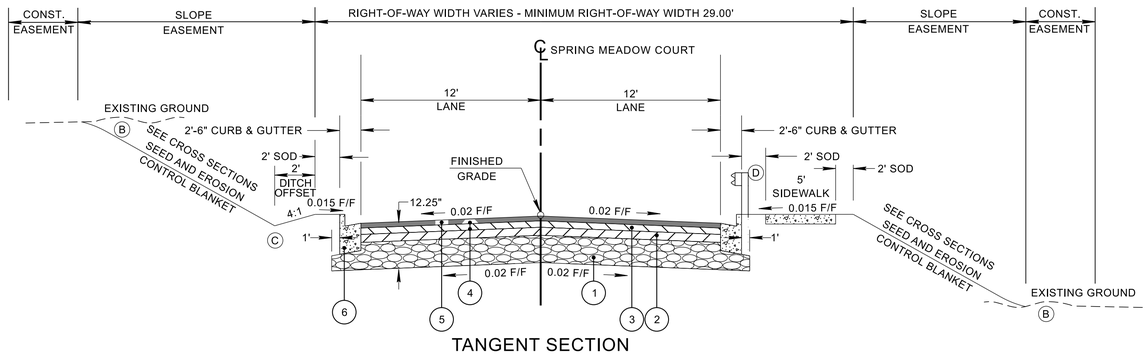
(C) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) GUARDRAIL AS REQUIRED. SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.



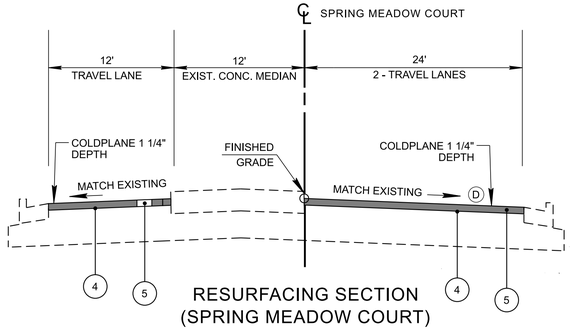
ROUNDABOUT TYPICAL SECTION

(BASED ON STD. DWG. RD18-RTS-1)



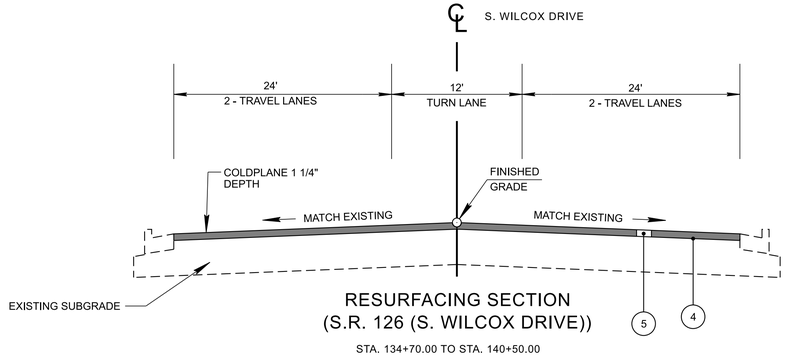
TANGENT SECTION (SPRING MEADOW COURT)

(BASED ON STD. DWG. RD18-TS-2)
FROM STA. 91+00.00 TO STA. 94+31.00



RESURFACING SECTION (SPRING MEADOW COURT)

STA. 94+31.00 TO STA. 97+24.90



RESURFACING SECTION (S.R. 126 (S. WILCOX DRIVE))

STA. 134+70.00 TO STA. 140+50.00

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ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

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TYPICAL SECTIONS

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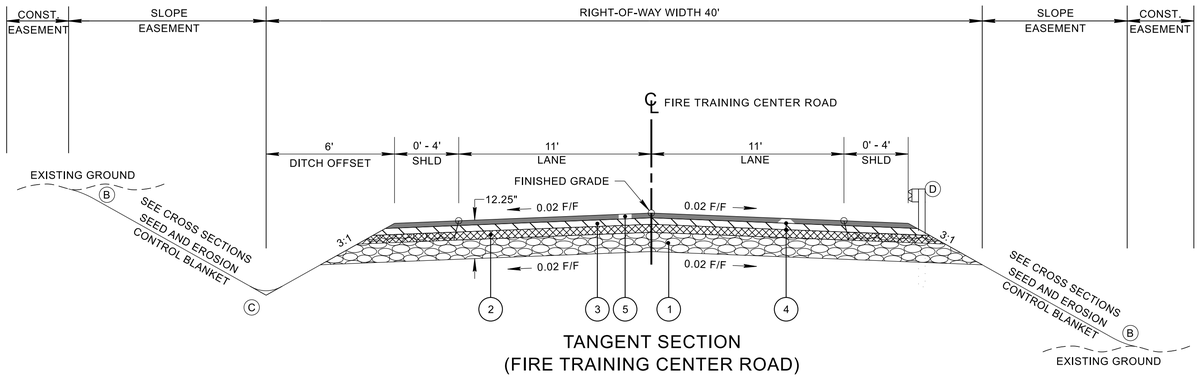
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	2B2
FUNCT.	2025	82956-2594-04	2B2
PIH	2026	82956-3594-04	2B2
PS&E	2026	82956-3594-04	2B2

(B) SEE STANDARD DRAWINGS RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

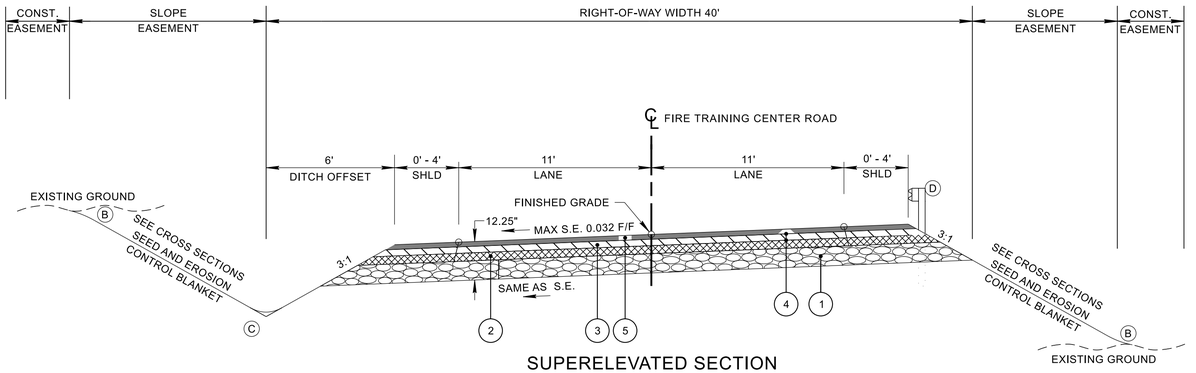
(C) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) GUARDRAIL AS REQUIRED. SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.



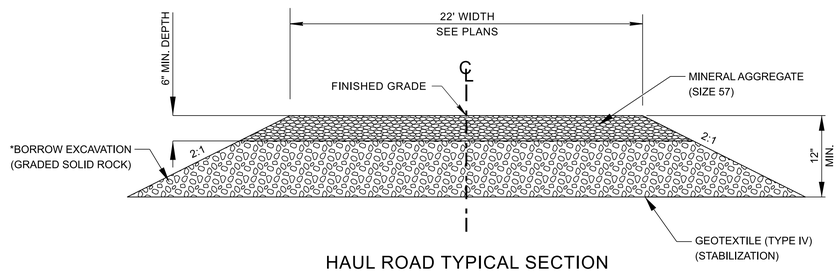
TANGENT SECTION
(FIRE TRAINING CENTER ROAD)

(BASED ON STD. DWG. RD18-TS-2A)
FROM STA. 80+35.00 TO STA. 80+50.00
FROM STA. 82+53.00 TO STA. 84+70.00



SUPERELEVATED SECTION
(FIRE TRAINING CENTER ROAD)

(BASED ON STD. DWG. RD18-TS-2A)
FROM STA. 80+50.00 TO STA. 82+53.00



HAUL ROAD TYPICAL SECTION

HAUL ROAD 1: STA. 400+00.00 TO STA. 402+59.55
HAUL ROAD 2: STA. 500+00.00 TO STA. 529+07.31
HAUL ROAD 3: STA. 200+00.00 TO STA. 201+10.27
HAUL ROAD 4: STA. 300+00.00 TO STA. 300+42.00

*NOTE: IF CONSTRUCTION IS IN AREAS THAT ARE EITHER DRY OR UNSATURED, HAUL ROAD SHALL BE CONSTRUCTUED OF BORROW EXCAVATION (GRADED SOLID ROCK). IF CONSTRUCTED IN WATER OR IN AN AREA WITHIN THE FLOODPLAIN IN THE CASE OF A 5-YEAR STORM EVENT, ONE OF THE FOLLOWING MATERIALS SHALL BE USED IN LIEU OF BORROW EXCAVATION (GRADED SOLID ROCK):

- MACHINED RIP-RAP (CLASS A-1)
- MACHINED RIP-RAP (CLASS B)
- MACHINED RIP-RAP (CLASS C)

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TYPICAL SECTIONS

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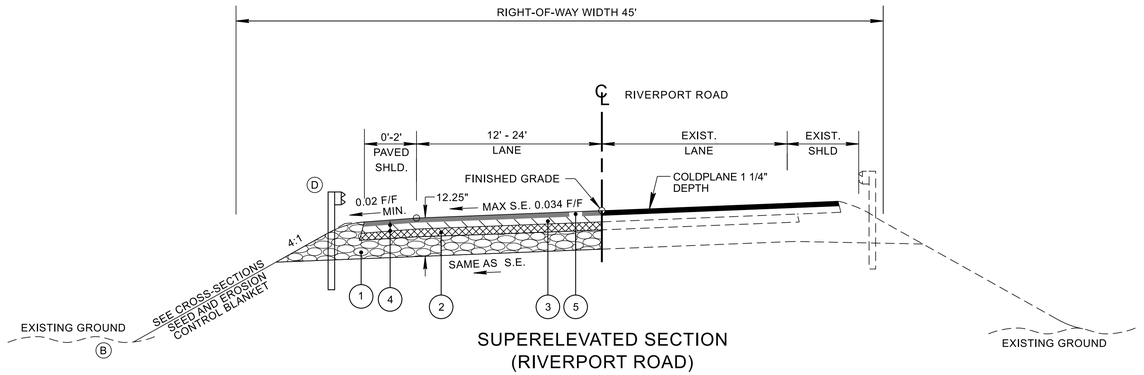
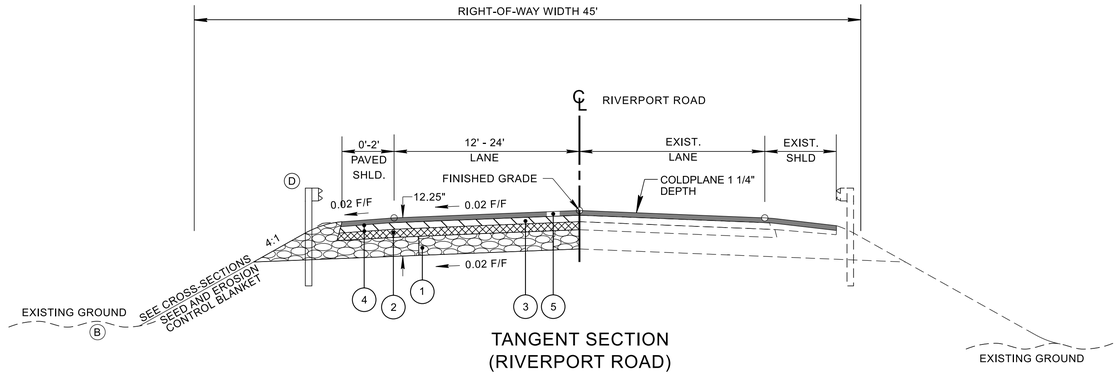
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	2B3
FUNCT.	2025	82956-2594-04	2B3
PIH	2026	82956-3594-04	2B3
PS&E	2026	82956-3594-04	2B3



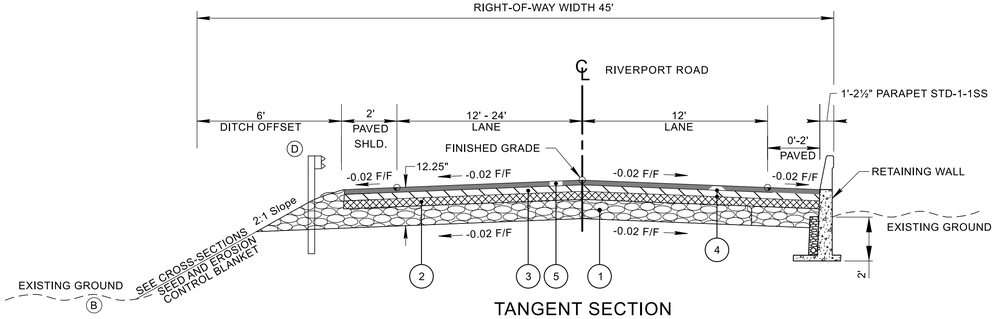
SUPERELEVATED SECTION (RIVERPORT ROAD)

(BASED ON STD. DWG. RD18-TS-3A)
FROM STA. 108+40.00 TO STA. 108+80.00
FROM STA. 118+60.00 TO STA. 119+00.00



TANGENT SECTION (RIVERPORT ROAD)

(BASED ON STD. DWG. RD18-TS-3A)
FROM STA. 108+80.00 TO STA. 113+18.00



TANGENT SECTION (RIVERPORT ROAD)

(BASED ON STD. DWG. RD18-TS-3A)
FROM STA. 113+18.00 TO STA. 118+60.00

(B) SEE STANDARD DRAWINGS RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

(D) GUARDRAIL AS REQUIRED. SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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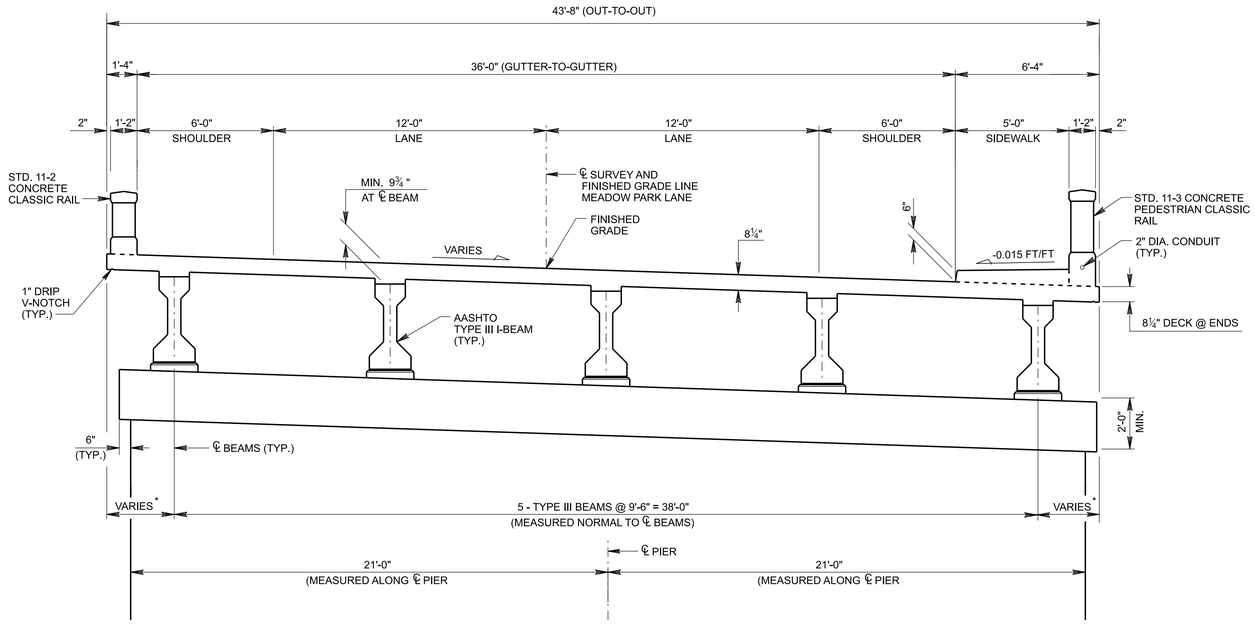
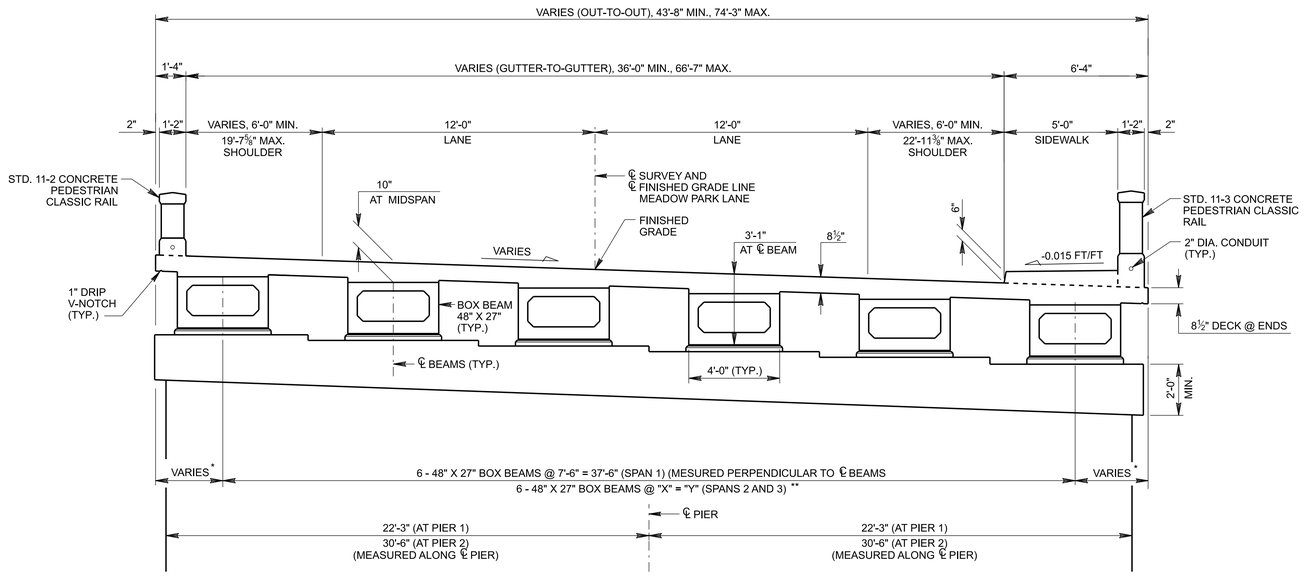
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2026	82956-2594-04	2B4
PIH	2026	82956-3594-04	2B4
PS&E	2026	82956-3594-04	2B4



BRIDGE #1 OVER HORSE CREEK (STR-2)

FROM STA. 35+75.50 TO STA. 37+55.50

SEE BRIDGE PLANS SHEET B-1 – B-4



BRIDGE #2 OVER "THE SLUICE" (STR-1)

FROM STA. 72+55.70 TO STA. 74+25.70

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No. 130719
STATE OF TENNESSEE
5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO. 801-02 AND 805-12.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

(4) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(5) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

(4) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR CATCH BASINS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

(7) ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL), C.Y.

FENCING

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS A TWO-WEEK NOTICE PRIOR TO CUTTING FENCES.

MISCELLANEOUS

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

(2) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6” LINE), L.M.

FINAL PAVEMENT MARKING

(6) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

a. BROOMING & DE-GRASSING SHOULDERS SHALL INCLUDE CLIPPING OF MATERIAL INTERFERING WITH PROPER DRAINAGE OF ROADWAY (INCLUDING PAVED AND GRAVEL SHOULDERS), AS DIRECTED BY THE ENGINEER.

b. ALL MATERIAL FROM CLIPPING, BROOMING AND DE-GRASSING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE ENGINEER.

c. ALL COSTS ASSOCIATED WITH PICKING UP, REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER ITEM NO. 208-01.05.

d. REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(8) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6” ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

RESURFACING

(4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(7) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

(8) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.

(9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3’-0”. AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1’-0” AND 3’-0” IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2” IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS AT A MINIMUM OF 4 FEET IN DEPTH.

SIGNING

(4) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(5) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL OPERATIONS OFFICE.

(10) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(11) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(6) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY.

(7) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2C
PS&E	2026	82956-3594-04	2C

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REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2C1
PS&E	2026	82956-3594-04	2C1

(8) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(9) AN ADVANCE FLASH OPERATION PERIOD IS REQUIRED TO MAKE MOTORISTS AWARE OF THE PRESENCE OF NEW SIGNAL HEADS. NEW SIGNAL HEADS SHALL BE PUT IN FLASH OPERATION FOR MINIMUM OF SEVEN (7) CALENDAR DAYS UP TO FOURTEEN (14) CALENDAR DAYS PRIOR TO ACTIVATION OF NORMAL TRAFFIC SIGNAL OPERATION. OTHER FLASH OPERTATION TIME PERIODS MAY BE CONSIDERED UPON WRITTEN APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER.

(10) THE CONTRACTOR SHALL CONTACT JIM HENSLEY WITH THE CITY OF KINGSPORT A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.

(11) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

(12) THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

(13) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.

(14) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED APRIL 1, 2026 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.

(3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THE INSULATION.

(4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.

(5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(7) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

(8) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

(9) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(10) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(11) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

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5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2D
PS&E	2026	82956-3594-04	2D

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

(6) THE CONTRACTOR SHALL CONSTRUCT AND COMPACT ALL EMBANKMENTS AND BRIDGE APPROACHES WITHIN THE PROJECT LIMITS AS PER 205.04.C IN THE STANDARD SPECIFICATIONS FOR DEGRADABLE ROCK. STOCKPILING OF NON-DEGRADABLE MATERIAL MAY BE REQUIRED FOR USE IN CAPPING EMBANKMENT. NO SEPARATE PAYMENT WILL BE MADE FOR STOCKPILING OR ADDITIONAL HANDLING OF NON-DEGRADABLE MATERIAL.

RETAINING WALLS

(1) THE RIGHT-OF-WAY/EASEMENT BETWEEN STATION 113+18.00 TO STATION 118+00.00 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED THERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET.

(4) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL, INCLUDING GRANULAR BACKFILL, GEOTEXTILE FABRIC (TYPE IV), LEVELING PAD, AND MOMENT SLAB, SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL. COSTS FOR EXCAVATION OF THE WALL SHALL BE INCLUDED IN ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION PER CUBIC YARD. END AREAS FOR EXCAVATION FOR THE WALL SHALL BE INCLUDED IN END AREA TOTALS ON CROSS-SECTIONS.

PAVEMENT

RESURFACING

(2) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

A. BROOMING & DEGRASSING SHALL INCLUDE NOTCHING THE GRAVEL SHOULDER PRIOR TO MILLING. THE NOTCH SHALL BE 1.5 IN DEEP AND 2 FT WIDE, OR AS DIRECTED BY THE TDOT PROJECT ENGINEER.

B. ALL MATERIAL FROM NOTCHING AND BROOMING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE TDOT PROJECT ENGINEER.

C. ALL COSTS ASSOCIATED WITH NOTCHING, PICKING UP, REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER ITEM NO. 208-01.05.

SIGNALIZATION

(1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

MULTIMODAL

(1) DURING CONSTRUCTION, IF THE CONSTRUCTION SUPERVISOR IDENTIFIES CURB RAMP LOCATIONS WITHIN THE PROJECT LIMITS WHERE THE TDOT ROADWAY STANDARDS CANNOT BE USED DUE TO SITE LIMITATIONS, A SKETCH OR PICTURE, SHOWING EXISTING CONDITIONS AS WELL AS PROPOSED MODIFICATIONS SHOULD BE SUBMITTED TO THE REGIONAL PROJECT DEVELOPMENT OFFICE THREE WEEKS PRIOR TO THE BEGINNING OF CURB RAMP CONSTRUCTION. THE OFFICE WILL REVIEW AND EVALUATE THE LOCATIONS TO DEVELOP PROPER CURB RAMP DESIGN THAT WILL MEET REGULATIONS.

SEALED BY

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	2E
PIH	2026	82956-3594-04	2E
PS&E	2026	82956-3594-04	2E

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

(9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

(12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

PERMITS, PLANS & RECORDS

(13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

(14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

(17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

SUPPORT ACTIVITIES

(18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

STREAMS, WETLANDS & BUFFER ZONES

ENVIRONMENTAL

(20) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRECONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

(3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

(4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

SCOPE OF WORK

(5) THIS PROJECT INCLUDES GRADING, DRAINAGE, PAVING, BRIDGE, AND GUARDRAIL, TO LINES AND GRADES AS INDICATED ON THE CROSS-SECTIONS AND PLAN-PROFILE SHEETS OR AS DIRECTED BY THE TDOT MANAGER, FOR A STATE INDUSTRIAL ACCESS ROAD SERVING EASTMAN CHEMICAL COMPANY.

WETLAND SPECIAL NOTES

TEMPORARY WETLAND IMPACTS

(1) REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES THE REMOVAL OF HAUL ROADS (IF APPLICABLE), RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.

(2) THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED ACCORDING TO STANDARD PRACTICES. PLANTING WILL BE BASED ON NOTES PROVIDED BY MITIGATION.

(3) WETLAND AREAS LOCATED OUTSIDE OF PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

(4) ITEM NUMBER 801-01.36 TO BE USED FOR REPLANTING TEMPORARY IMPACT AREAS.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
PRINCIPAL
DEPARTMENT OF COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

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CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE ELEV.	INVERT ELEV.	DEPTH (FT.)	INSIDE DIM.	STANDARD DRAWING NO.	PAY ITEMS			
										TYPE 12 611-12.01 0'-4'	TYPE 12 611-12.02 4'-8'	TYPE 12 611-12.03 8'-12'	TYPE 14 611-14.02 4'-8'
4B	PARK MEADOW PLACE	5+10.00	29.79' LT.	1	1220.27	1211.82	**8.45**	72"	D-CB-12RB			**1**	
4B	PARK MEADOW PLACE	5+10.00	29.04' RT.	2	1220.10	1216.20	**3.9**	48" x 36"	D-CB-12P	**1**			
4B	SPRING MEADOW COURT	92+75.00	26.30' RT.	3	1220.11	1216.21	**3.9**	48" x 36"	D-CB-12P	**1**			
4B	SPRING MEADOW COURT	92+75.00	30.59' LT.	4	1219.90	1215.54	**4.36**	60"	D-CB-12RB		**1**		
4B	MEADOW PARK LANE	10+76.00	27.81' RT.	5	1220.43	1214.58	**5.85**	96" x 36"	D-CB-14P				**1**
4B	MEADOW PARK LANE	10+76.00	31.85' LT.	6	1220.39	1213.58	**6.81**	96"	D-CB-14RB				**1**
4B	MEADOW PARK LANE	11+50.00	17.08' LT.	7	1220.70	1214.66	**6.04**	72"	D-CB-12RB		**1**		
4B	MEADOW PARK LANE	11+50.00	17.65' RT.	8	1220.70	1215.33	**5.37**	48" x 36"	D-CB-12P		**1**		
4B	MEADOW PARK LANE	12+75.00	17.96' LT.	9	1222.84	1218.45	**4.39**	48" x 36"	D-CB-12P		**1**		
4B	MEADOW PARK LANE	12+75.00	17.96' RT.	10	1222.84	1218.94	**3.9**	48" x 36"	D-CB-12P	**1**			
5B	MEADOW PARK LANE	16+20.00	23.96' LT	11	1232.57	1227.83	**4.74**	48" x 36"	D-CB-12P		**1**		
5B	MEADOW PARK LANE	16+20.00	23.96' RT.	12	1232.57	1228.67	**3.9**	48" x 36"	D-CB-12P	**1**			
5B	MEADOW PARK LANE	18+50.00	23.96' LT	13	1246.39	1242.34	**4.05**	48" x 36"	D-CB-12P		**1**		
5B	MEADOW PARK LANE	18+50.00	23.96' RT.	14	1247.19	1243.29	**3.9**	48" x 36"	D-CB-12P	**1**			
6B	MEADOW PARK LANE	24+25.00	17.96' LT.	15	1257.61	1253.71	**3.9**	48" x 36"	D-CB-12P	**1**			
6B	MEADOW PARK LANE	24+25.00	17.96' RT.	16	1257.61	1252.96	**4.65**	48" x 36"	D-CB-12P		**1**		
6B	MEADOW PARK LANE	28+65.00	23.96' LT	17	1230.10	1226.20	**3.9**	48" x 36"	D-CB-12P	**1**			
6B	MEADOW PARK LANE	28+65.00	23.96' RT.	18	1228.70	1224.65	**4.05**	48" x 36"	D-CB-12P		**1**		
6B	MEADOW PARK LANE	32+60.00	17.96' RT.	19	1208.87	1204.97	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	33+48.00	17.96' LT.	20	1208.66	1204.76	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	33+88.00	17.96' LT.	21	1208.54	1204.16	**4.38**	96" x 36"	D-CB-14P				**1**
7B	MEADOW PARK LANE	34+28.00	17.96' LT.	22	1208.66	1204.76	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	33+48.00	17.96' RT.	23	1207.73	1203.66	**4.07**	48" x 36"	D-CB-12P		**1**		
7B	MEADOW PARK LANE	33+88.00	17.96' RT.	24	1207.59	1203.23	**4.36**	96" x 36"	D-CB-14P				**1**
7B	MEADOW PARK LANE	34+28.00	17.96' RT.	25	1207.71	1203.81	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	38+35.00	20.92' LT.	26	1210.01	1206.11	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	38+35.00	20.92' RT.	27	1209.94	1202.00	**7.94**	48" x 36"	D-CB-12P		**1**		
7B	MEADOW PARK LANE	40+50.00	18.71' LT.	28	1211.04	1207.14	**3.9**	48" x 36"	D-CB-12P	**1**			
7B	MEADOW PARK LANE	40+50.00	18.71' RT.	29	1211.04	1206.12	**4.92**	48" x 36"	D-CB-12P		**1**		
8B	MEADOW PARK LANE	42+90.00	23.96' LT	30	1212.15	1208.25	**3.9**	48" x 36"	D-CB-12P	**1**			
8B	MEADOW PARK LANE	42+90.00	23.96' RT.	31	1212.15	1207.49	**4.66**	48" x 36"	D-CB-12P		**1**		
8B	MEADOW PARK LANE	47+00.00	17.96' LT.	32	1212.13	1208.23	**3.9**	48" x 36"	D-CB-12P	**1**			
8B	MEADOW PARK LANE	47+00.00	17.96' RT.	33	1211.71	1207.66	**4.05**	48" x 36"	D-CB-12P		**1**		
8B	MEADOW PARK LANE	48+15.00	17.96' RT.	34	1208.90	1204.83	**4.07**	48" x 36"	D-CB-12P		**1**		
8B	MEADOW PARK LANE	49+30.00	17.96' LT.	35	1206.73	1202.83	**3.9**	48" x 36"	D-CB-12P	**1**			
8B	MEADOW PARK LANE	49+30.00	17.96' RT.	36	1206.44	1202.37	**4.07**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	53+00.00	17.96' LT.	37	1203.08	1199.18	**3.9**	48" x 36"	D-CB-12P	**1**			
9B	MEADOW PARK LANE	53+00.00	17.96' RT.	38	1203.08	1198.54	**4.54**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	55+80.00	17.96' LT.	39	1201.80	1197.90	**3.9**	48" x 36"	D-CB-12P	**1**			
9B	MEADOW PARK LANE	56+32.00	17.96' LT.	40	1201.75	1196.42	**5.33**	96" x 36"	D-CB-14P				**1**
9B	MEADOW PARK LANE	56+80.00	17.96' LT.	41	1201.79	1197.22	**4.57**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	55+80.00	17.96' RT.	42	1201.80	1197.90	**3.9**	48" x 36"	D-CB-12P	**1**			
9B	MEADOW PARK LANE	56+32.00	17.96' RT.	43	1201.86	1195.22	**6.64**	96" x 36"	D-CB-14P				**1**
9B	MEADOW PARK LANE	56+80.00	17.96' RT.	44	1201.89	1197.99	**3.9**	48" x 36"	D-CB-12P	**1**			
9B	MEADOW PARK LANE	57+75.00	17.96' LT.	45	1201.96	1197.89	**4.07**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	58+75.00	17.96' LT.	46	1202.62	1198.55	**4.07**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	59+75.00	17.96' LT.	47	1203.67	1199.62	**4.05**	48" x 36"	D-CB-12P		**1**		
9B	MEADOW PARK LANE	59+75.00	17.96' RT.	48	1204.56	1200.66	**3.9**	48" x 36"	D-CB-12P	**1**			
10B	MEADOW PARK LANE	64+80.00	23.96' LT	49	1203.74	1199.84	**3.9**	48" x 36"	D-CB-12P	**1**			
10B	MEADOW PARK LANE	64+80.00	23.96' RT.	50	1203.74	1198.77	**4.97**	48" x 36"	D-CB-12P		**1**		
10B	MEADOW PARK LANE	67+45.00	17.96' LT.	51	1198.68	1194.78	**3.9**	48" x 36"	D-CB-12P	**1**			
10B	MEADOW PARK LANE	67+45.00	17.96' RT.	52	1198.68	1193.95	**4.73**	48" x 36"	D-CB-12P		**1**		
10B	MEADOW PARK LANE	68+65.00	17.96' LT.	53	1196.34	1192.44	**3.9**	48" x 36"	D-CB-12P	**1**			
10B	MEADOW PARK LANE	68+65.00	17.96' RT.	54	1196.34	1191.61	**4.73**	48" x 36"	D-CB-12P		**1**		
10B	MEADOW PARK LANE	70+30.00	17.96' LT.	55	1193.25	1189.35	**3.9**	48" x 36"	D-CB-12P	**1**			
10B	MEADOW PARK LANE	70+30.00	17.96' RT.	56	1193.45	1188.52	**4.93**	48" x 36"	D-CB-12P		**1**		
11B	MEADOW PARK LANE	71+35.00	17.96' LT.	57	1191.63	1187.73	**3.9**	48" x 36"	D-CB-12P	**1**			
11B	MEADOW PARK LANE	71+35.00	18.75' RT.	58	1191.11	1186.88	**4.23**	48" x 36"	D-CB-12P		**1**		
11B	MEADOW PARK LANE	72+25.00	18.08' RT.	59	1190.01	1185.31	**4.7**	48" x 36"	D-CB-12P		**1**		
TOTALS										**26**	**26**	**1**	**6**

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		GRADE	RCP - CLASS III SIZE & LENGTH (L.F.)		
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		607-03.02 18"	607-06.02 30"	607-07.02 36"
4B	1	1211.82	1A	1211.20	3.84%			17
4B	2	1216.20	1	1215.15	1.99%	53		
4B	3	1216.21	4	1215.68	1.01%	53		
4B	CB-13	1221.03	4	1215.85	2.47%	210		
4B	4	1215.54	5	1214.81	1.00%	74		
4B	5	1214.58	6	1213.79	1.49%	53		
4B	6	1213.58	1	1212.03	1.01%			155
4B	7	1214.66	6	1214.00	1.01%			66
4B	8	1215.33	7	1214.87	1.68%		28	
4B	8A	1215.70	8	1215.54	1.00%		16	
4B	9	1218.45	7	1216.50	1.59%	123		
4B	10	1218.94	9	1218.60	1.10%	31		
4B	11	1227.83	9	1218.94	2.61%	342		
5B	12	1228.67	11	1227.98	1.61%	43		
5B	13	1242.34	11	1228.67	5.93%	226		
5B	14	1243.29	13	1242.49	3.45%	43		
6B	15	1253.71	16	1253.09	1.65%	31		
6B	16	1252.96	16A	1252.38	1.98%	30		
6B	17	1226.20	18	1224.80	3.26%	43		
6B	18	1224.65	18A	1224.50	1.13%	14		
6B	19	1204.97	23	1203.83	1.39%	83		
7B	20	1204.76	21	1204.48	0.81%	35		
7B	22	1204.76	21	1204.39	1.06%	35		
7B	21	1204.16	24	1203.53	2.04%	31		
7B	23	1203.66	24	1203.47	0.57%	34		
7B	25	1203.81	24	1203.46	1.06%	34		
7B	24	1203.23	24A	1203.15	0.62%	13		
7B	27	1202.00	27A	1198.00	4.29%	94		
7B	26	1206.11	27	1205.55	1.52%	37		
7B	29	1206.12	27	1204.94	0.56%	212		
7B	28	1207.14	29	1206.69	1.39%	33		
7B	31	1207.49	29	1206.29	0.51%	237		
8B	30	1208.25	31	1207.64	1.42%	43		
8B	32	1208.23	33	1207.81	2.65%	31		
8B	33	1207.66	34	1205.00	2.28%	110		
8B	34	1204.83	36	1202.54	2.12%	110		
8B	35	1202.83	36	1202.54	1.68%	31		
8B	36	1202.35	38	1199.18	0.87%	367		
9B	37	1199.18	38	1198.67	1.65%	31		
9B	38	1198.54	38A	1198.00	2.29%	24		
9B	39	1197.90	40	1197.20	1.52%	47		
9B	41	1197.22	40	1196.65	1.36%	43		
9B	40	1196.42	43	1195.35	3.47%	31		
9B	42	1197.90	43	1196.70	2.61%	47		
9B	44	1197.99	43	1197.07	2.20%	43		
9B	43	1195.22	43A	1195.00	0.92%	24		
9B	45	1197.89	41	1197.39	0.53%	91		
9B	46	1198.55	45	1198.06	0.55%	95		
9B	47	1199.62	46	1198.72	0.94%	96		
9B	48	1200.66	47	1199.77	2.87%	31		
10B	49	1199.84	50	1198.92	2.14%	43		
10B	50	1198.77	52	1194.78	1.53%	262		
10B	51	1194.78	52	1194.10	2.20%	31		
10B	52	1193.95	54	1192.44	1.30%	117		
10B	53	1192.44	54	1191.76	2.20%	31		
10B	54	1191.61	56	1189.55	1.27%	163		
10B	55	1189.35	56	1188.67	2.20%	31		
10B	56	1188.52	58	1187.22	1.32%	99		
11B	57	1187.73	58	1187.03	2.20%	32		
11B	58	1186.88	59	1185.76	1.350%	83		
11B	59	1185.31	60	1185.17	1.12%	13		
TOTALS						**4447**	**44**	**238**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2F
PS&E	2026	82956-3594-04	2F

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5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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PAVEMENT QUANTITIES

LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)					COLD PLANING BITUMINOUS PLANT MIX	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN 8")
	MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)		TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)		
	D	A	B-M2		D	S.Y.	S.Y.
	303-01	307-01.01	307-01.08	403-01	411-01.10	415-01.02	501-01.01
MEADOW PARK LANE	13500.0	3300.0	2750.0	19.0	1350.0		
SPRING MEADOW COURT	200.0				150.0	1510.0	
PARK MEADOW PLACE	600.0	250	135.0	1.0	120.0		
ROUNDABOUT	2200.0	525.0	330.0	3.0	260.0		280.0
FIRE TRAINING CENTER ROAD	1200.0	225.0	165.0	2.0	120.0		
RIVERPORT ROAD	2300.0	700.0	420.0	3.0	400.0	690.0	
WILCOX DRIVE				2.0	300.0	3800.0	
TOTALS	20000.0	5000.0	3800.0	30.0	2700.0	6000.0	280.0

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	73000	78000	62050
SIDE ROADS	4300	17500	3655
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0	
INDEPENDENT DITCHES	0	0	
TEMPORARY CONSTRUCTION EXITS	15	0	13
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	500	0	425
TOPSOIL (EMB.)	5550	[redacted]	
TOPSOIL (EXC.)	5550		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	20555	88915	74945	88915	77815	66143

BALANCE SUMMARY

SHRINK = 15 % SWELL = 15 %

EMB.		EXC.
74945	VS.	-66143

AVAILABLE = 8802

BORROW MATERIAL = 10123

BORROW ROCK = 23639

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2F1
PS&E	2026	82956-3594-04	2F1

REV. 07-07-26:
REMOVED ITEM NOS. 402-01, 402-02 FROM PAVEMENT QUANTITIES TABLE.

REV. 08-20-26:
ADDED ITEMS TO "REMOVAL OF STRUCTURES" TABLE.

REMOVAL OF STRUCTURES

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
4	3+15.00	LEFT	CB-1	
4	3+15.00	RIGHT	CB-2 / CB-3	
4	5+30.00	RIGHT	CB-4	
4	5+75.00	RIGHT	CB-8	
4	10+30.00	LEFT	CB-5	
4	10+30.00	RIGHT	CB-6	
4	93+05.00	LEFT	CB-7	
4	93+05.00	RIGHT	CB-9	
4	3+15.00	RIGHT	24" STORM PIPE (30 L.F.)	CB-2/3 TO CB-1
4	4+00.00	RIGHT	30" STORM PIPE (208 L.F.)	CB-4 TO CB-1
4	5+50.00	RIGHT	24" STORM PIPE (57 L.F.)	CB-8 TO CB-4
4	5+70.00	RIGHT	24" STORM PIPE (100 L.F.)	CB-5 TO CB-4
4	10+35.00	RIGHT	18" STORM PIPE (53 L.F.)	CB-6 TO CB-5
4	92+80.00	RIGHT	24" STORM PIPE (45 L.F.)	CB-9 TO CB-8
4	93+04.00	LEFT	18" STORM PIPE (35 L.F.)	CB-7 TO CB-9
4	94+00.00	LEFT	18" STORM PIPE (185 L.F.)	CB-13 TO CB-7
7	38+97.00	LEFT	IRRIGATION/VERTICAL PIPE	
7	39+03.00	RIGHT	IRRIGATION VALVE	
8	42+08.00	RIGHT	IRRIGATION VALVE	
8	42+44.00	RIGHT	IRRIGATION/VERTICAL PIPE	
8	43+04.00	RIGHT	IRRIGATION VALVE	
8	48+00.00	LEFT	IRRIGATION VALVE	
9	51+46.00	LEFT	IRRIGATION VALVE	
9	52+42.00	LEFT	IRRIGATION/VERTICAL PIPE	

TOPSOIL

IF EXISTING TOPSOIL IS SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
496000	5500	5500	11000	9185	9185	0	1815

SPECIAL DITCHES

ROADWAY	STATION		SIDE	DETAIL NO.	CONFIGURATION			SODDING NEW SOD 803-01 (S.Y.)	TURF REINFORCEMENT MAT 805-01.01 (S.Y.)
	FROM	TO			FORE (H/V)	BOTTOM WIDTH (FT.)	BACK (H/V)		
MEADOW PARK LANE	10+33.79	11+60.00	RT.		4:1	0	4:1	550	
MEADOW PARK LANE	11+60.00	11+70.00	RT.		4:1	0	3:1		100
MEADOW PARK LANE	11+70.00	12+25.00	RT.		4:1	0	2:1		400
MEADOW PARK LANE	12+25.00	12+60.00	RT.		4:1	0	4:1		150
MEADOW PARK LANE	12+60.00	12+75.00	RT.		4:1	0	3:1		100
MEADOW PARK LANE	12+75.00	13+00.00	RT.		4:1	0	2:1		150
MEADOW PARK LANE	22+00.00	24+25.00	RT.		4:1	0	3:1	1010	
MEADOW PARK LANE	30+00.00	36+50.00	LT.		2:1	0	2:1	700	
MEADOW PARK LANE	52+00.00	60+50.00	LT.		4:1	0	4:1	2500	
TOTALS								4760	900

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL						TERMINAL ANCHORS
		LT	RT	FROM	TO	THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 EACH	W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	W BEAM GR (TYPE 2) (LONG POST) MASH TL3 705-06.02 (L.F.)	GUARDRAIL TERMINAL (INLINE) MASH TL3 705-06.11 (EACH)	GUARDRAIL REMOVED 706-01 (L.F.)	RADIUS RAIL 706-06.03 (L.F.)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)
5, 6, 7	MEADOW PARK LANE		X	23+84.00	35+50.00	1	1070.00					1
6	MEADOW PARK LANE	X		24+39.00	28+72.00		390.00					1
6	FIRE TRAINING CENTER ROAD	X		82+69.00	84+46.00		115.00		1		50	1
6	FIRE TRAINING CENTER ROAD		X	82+89.50	84+46.00		100.00		1		50	1
6, 7	MEADOW PARK LANE	X		29+61.00	35+50.00	1	580.00					
7	MEADOW PARK LANE	X		37+80.00	39+31.00	1	75.00					1
7	MEADOW PARK LANE		X	37+80.00	38+85.50	1	30.00					1
10, 11	MEADOW PARK LANE		X	70+73.50	72+26.50	1	75.00					1
11	MEADOW PARK LANE	X		71+36.00	72+35.25	1	30.00					1
11	RIVERPORT ROAD		X	112+35.00	113+18.00	1	62.00					
11	RIVERPORT ROAD	X		112+93.00	114+73.00			100.00				1
11	RIVERPORT ROAD	X		115+44.50	118+76.00			295.00				1
11	RIVERPORT ROAD		X	118+60.00	118+95.00	1	12.00					
11	RIVERPORT ROAD		X	113+05.00	118+95.00					590		
TOTALS						8	2539.00	395.00	2	590	100	10

BOX CULVERT TABULATION

STATION	LOCATION	TYPE		SKEW	NO. BARRELS	WIDTH	HEIGHT	LENGTH	DRAINAGE AREA ACRES	STANDARD DRAWING NO.	CULVERT ≤ 20 FT.		BRIDGE > 20 FT.		STD. DWG. STD-17-17 & 18		RIP-RAP CLASS C 709-05.09 TON	CHANNEL EXC. 203-08 CU. YD.	CULVERT EXC. 204-01 CU. YD.
		BOX	SLAB								CLASS "A" CONCRETE 604-01.01 CU. YD.	STEEL BAR REINF. 604-01.02 LB.	CLASS "A" CONCRETE 604-02.01 CU. YD.	STEEL BAR REINF. 604-02.02 LB.	FOUNDATION FILL MATERIAL 204-08 CU. YD.	GRANULAR BACKFILL 303-01.01 TONS			
53+50.00	MEADOW PARK LANE	X		90°	1	8	3	82'	48	STD-17-52	76.00	16700				900	194		200
TOTALS											76.00	16700				900	194		200

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TABULATED QUANTITIES

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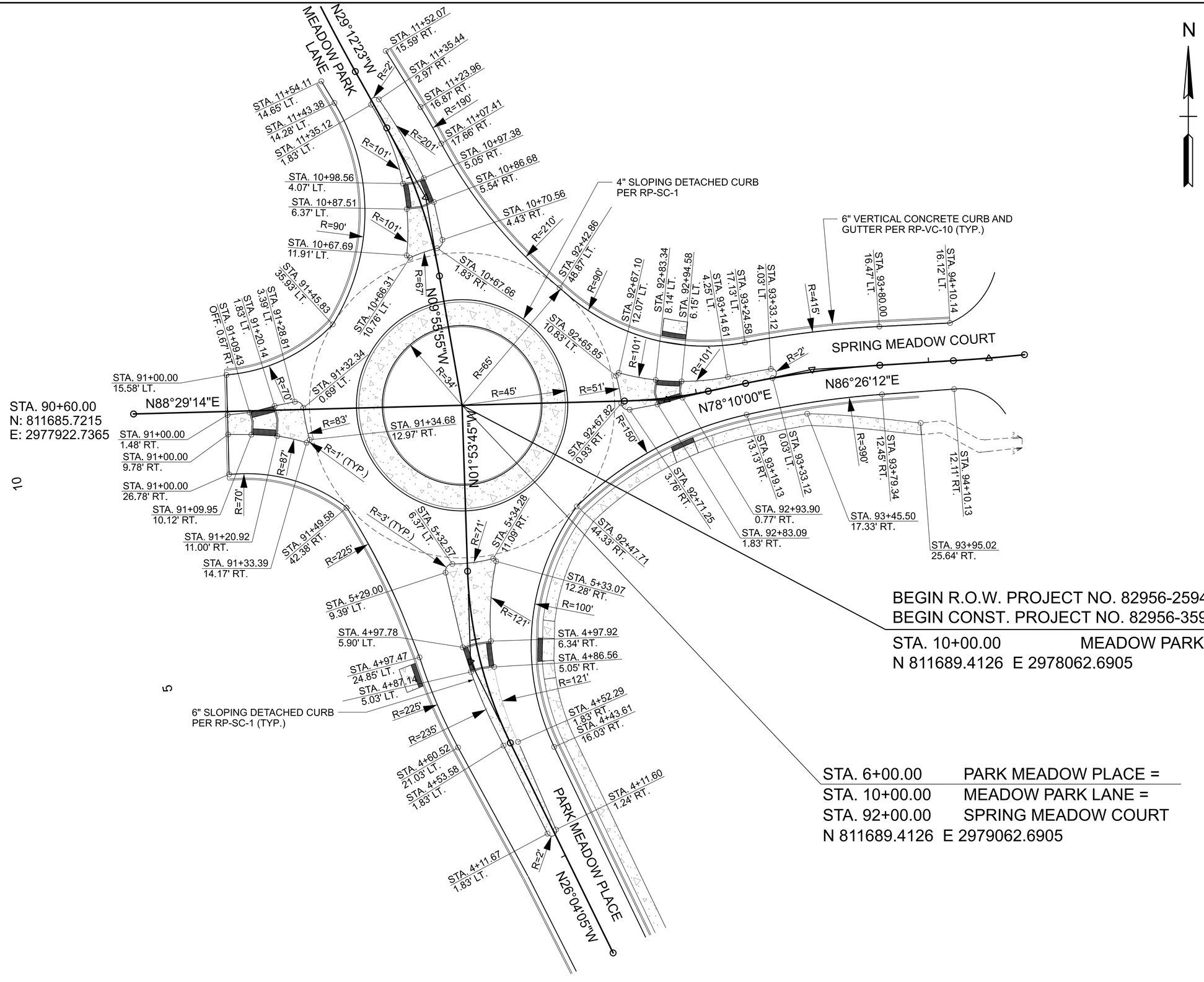
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	2G
PS&E	2026	82956-3594-04	2G



BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE
N 811689.4126 E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2979062.6905

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5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

ROUNDABOUT
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	3B
FUNCT.	2025	82956-2594-04	3
PIH	2026	82956-3594-04	3
PS&E	2026	82956-3594-04	3

UTILITY

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS

ELECTRIC:
AEP – KINGSPORT POWER COMPANY
420 RIVERPORT ROAD
KINGSPORT, TN 37660
CONTACT: TOM HENSLEY
PHONE: 423 578 2249
Email: tdhensley@aep.com

TELEPHONE:
AT&T
9733 PARKSIDE DRIVE
KNOXVILLE, TN 37922
CONTACT: JAY FRAZIER
PHONE: 865 387 2685
Email: JF092G@ATT.COM

TELEPHONE:
BRIGHTSPEED
101 NORTH ROAN STREET
JOHNSON CITY, TN 37601
CONTACT: ANDREW ICE
PHONE: 423 461 7724
Email: andrew.f.ice@brightspeed.com

CABLE:
CHARTER
10417 WALLACE ALLEY ST.
KINGSPORT, TN 37663
CONTACT: BRANDON ADDISON
PHONE: 423 212 2367
Email: brandon.addison@charter.com

WATER/SEWER:
CITY OF KINGSPORT
1213 KONNAROCK RD
KINGSPORT, TN 37664
CONTACT: CHAD AUSTIN
PHONE: 423 229 9454
Email: wsengineers@kingsporttn.gov

CABLE:
XFINITY
1794 OLD GRAY STATION RD.
JOHNSON CITY, TN 37615
CONTACT: KEVIN WALDROP
PHONE: 865 862 5061
Email: kevin_waldrop2@cable.comcast.com

GAS:
ENBRIDGE
1277 FORDTOWN ROAD
KINGSPORT, TN 37663
CONTACT: ANTHONY WILSON
PHONE: 423 307 9505
Email: anthony.wilson@enbridge.com

GAS:
ATMOS
2833 WEST MARKET ST.
KINGSPORT, TN 37604
CONTACT: SETH BRADBURN
PHONE: 423 440 4521
Email: seth.bradburn@atmosenergy.com

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY NOTES
AND
UTILITY OWNERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	3A
FUNCT.	2025	82956-2594-04	3A
PIH	2026	82956-3594-04	3A
PS&E	2026	82956-3594-04	3A

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET) (1)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
~~1~~	~~CITY OF KINGSPORT, TENNESSEE~~	~~076~~	~~006.95~~	~~3024~~	~~2382~~	~~15.226~~		~~15.226~~				~~15.226~~				
~~2~~	~~EASTMAN CREDIT UNION~~	~~076~~	~~006.93~~	~~3294~~	~~2173~~		~~9.820~~	~~9.820~~					~~9.820~~			
3	EASTMAN CHEMICAL COMPANY	076	006.90	965C	343	47.417	25.651	73.068	2.071	1.352	3.423	45.346	24.299	3000	2.206 AC	1.718 AC
4	EASTMAN CHEMICAL COMPANY	061	011.00	2366C	698	576.888	31.304	608.192	3.739	3.625	7.364	573.149	27.679	0.269 AC	2.830 AC	8.173 AC
~~10~~	~~SHAAR FORERO PROPERTIES, INC~~	~~061~~	~~012.08~~	~~3540~~	~~1144~~		~~7.714~~	~~7.714~~					~~7.714~~			
~~11~~	~~RENFROW WILCOX PROPERTIES, LLC~~	~~061~~	~~012.10~~	~~3622~~	~~618~~		~~5.755~~	~~5.755~~					~~5.755~~			
~~12~~	~~1700 PROPERTIES, LLC~~	~~061~~	~~010.70~~	~~3562~~	~~1061~~		~~2.203~~	~~2.203~~					~~2.203~~			
~~13~~	~~BOYD L. HYDER~~	~~061P GR A~~	~~030.00~~	~~3324~~	~~1331~~		~~4.683~~	~~4.683~~					~~4.683~~			
~~14~~	~~KNOXVILLE MHC, LLC~~	~~061~~	~~014.00~~	~~3363~~	~~219~~		~~18.023~~	~~18.023~~					~~18.023~~			
~~15~~	~~BLACKBURN,CHILDERS, & STEAGALL,PLC~~	~~076~~	~~012.00~~	~~3588~~	~~1796~~		~~0.441~~	~~0.441~~					~~0.441~~			
~~16~~	~~BLACKBURN,CHILDERS, & STEAGALL,PLC~~	~~076A~~	~~001.00~~	~~3589~~	~~123~~		~~0.623~~	~~0.623~~					~~0.623~~			
~~17~~	~~DALLAS F. WAGNER AND LUCINDA WAGNER~~	~~076A~~	~~002.00~~	~~1422C~~	~~694~~		~~1.007~~	~~1.007~~					~~1.007~~			
18	EASTMAN CHEMICAL COMPANY	061	010.00	965C	343	73.167	40.508	113.675	0.521	0.863	1.384	72.646	39.645		3352	0.513 AC

(1) FOR WORKING ROOM AND EPSC MEASURES.

DISTURBED AREA TABLE

AREA BETWEEN SLOPE LINES	20.772 AC.
10 FOOT WIDE STRIP (OUTSIDE OF SLOPE LINES)	6.276 AC.
TOTAL DISTURBED AREA	20.772 AC.
TOTAL PROJECT AREA	27.048 AC.

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ANDREW WARREN
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COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISTION
TABLE

5/27/2026 2:52:05 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	3C
FUNCT.	2025	82956-2594-04	3B
PIH	2026	82956-3594-04	3B
PS&E	2026	82956-3594-04	3B

N

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE
N 811689.4126
E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2978062.6905

STA. 35+80.00 MEADOW PARK LANE =
STA. 400+00.00 HAUL ROAD 1
N 813856.5078 E 2976950.1554

STA. 402+00.00 HAUL ROAD 1 =
STA. 500+00.00 HAUL ROAD 2
N 813901.4009 E 2976756.8857

PROPERTY INSET
N.T.S.

PROP. R.O.W.
CONST. ESMT.
FIRE TRAINING CENTER ROAD
WTL-1/ WTL-2
HAUL ROAD 1
WTL-5
STR-2
STR-3
HAUL ROAD 2
MEADOW PARK LANE
HORSE CREEK
WTL-1
WTL-4
WTL-3
WTL-10
WTL-6
WTL-7
STR-7
WTL-8
STR-4
WTL-9
WTL-11
WTL-12
PRES. R.O.W.
PARK MEADOW PL.
SPRING MEADOW CT
APPALACHIAN ELECTRIC POWER 100' EASEMENT
S.R.126 (S. WILCOX DRIVE)
HORSE CREEK LANE
SEE SHEET NO. 3C
MATCH LINE STA. 43+00

STA. 29+20.00 MEADOW PARK LANE =
STA. 84+70.00 FIRE TRAINING CENTER ROAD
N 813218.3101 E 2977014.5820

STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457

PROPERTY INSET
N.T.S.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 136719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 10+00.00 TO STA. 43+00.00
SCALE: 1" = 200'

5/21/2026 8:12:04 AM
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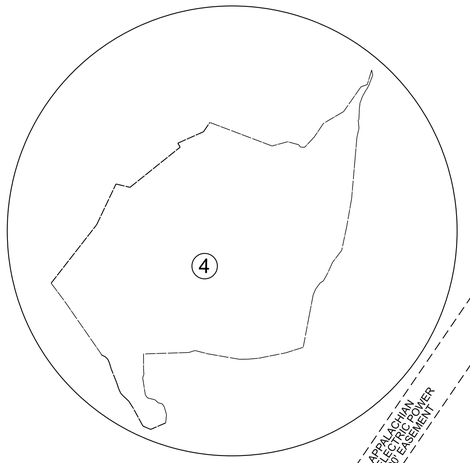
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	3D
FUNCT.	2025	82956-2594-04	3C
PIH	2026	82956-3594-04	3C
PS&E	2026	82956-3594-04	3C



PROPERTY INSET
N.T.S.

APPALACHIAN ELECTRIC POWER 100' EASEMENT

END R.O.W. PROJECT NO. 82956-2594-04

STA. 74+59.91 MEADOW PARK LANE

N 817230.0859 E 2978747.9999

STA. 74+59.91 MEADOW PARK LANE =
STA. 115+13.00 RIVERPORT ROAD
N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04

STA. 74+35.91 MEADOW PARK LANE

N 817211.4044 E 2978732.9311

STA. 55+86.00 MEADOW PARK LANE =
STA. 529+07.31 HAUL ROAD 2
N 815537.1357 E 2978019.8095

SEE SHEET NO. 3B

MATCH LINE STA. 43+00

43+26.08

HAUL ROAD

HAUL ROAD 4

HAUL ROAD 3

MEADOW PARK LANE

RIVERPORT ROAD

HORSE CREEK

STR-1

STR-2

WTL-13

WTL-14

PROP. R.O.W.

PROP. R.O.W. & CONST. ESMT.

PRES. ESMT.

PRES. ESMT. & PROP. R.O.W.

CONST. ESMT.

ENBRIDGE 406C-566 EASEMENT

PROPERTY INSET
N.T.S.

PROPERTY INSET
N.T.S.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130715
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 43+00.00 TO STA. 74+40.28
SCALE: 1" = 200'

5/21/2026 8:12:29 AM
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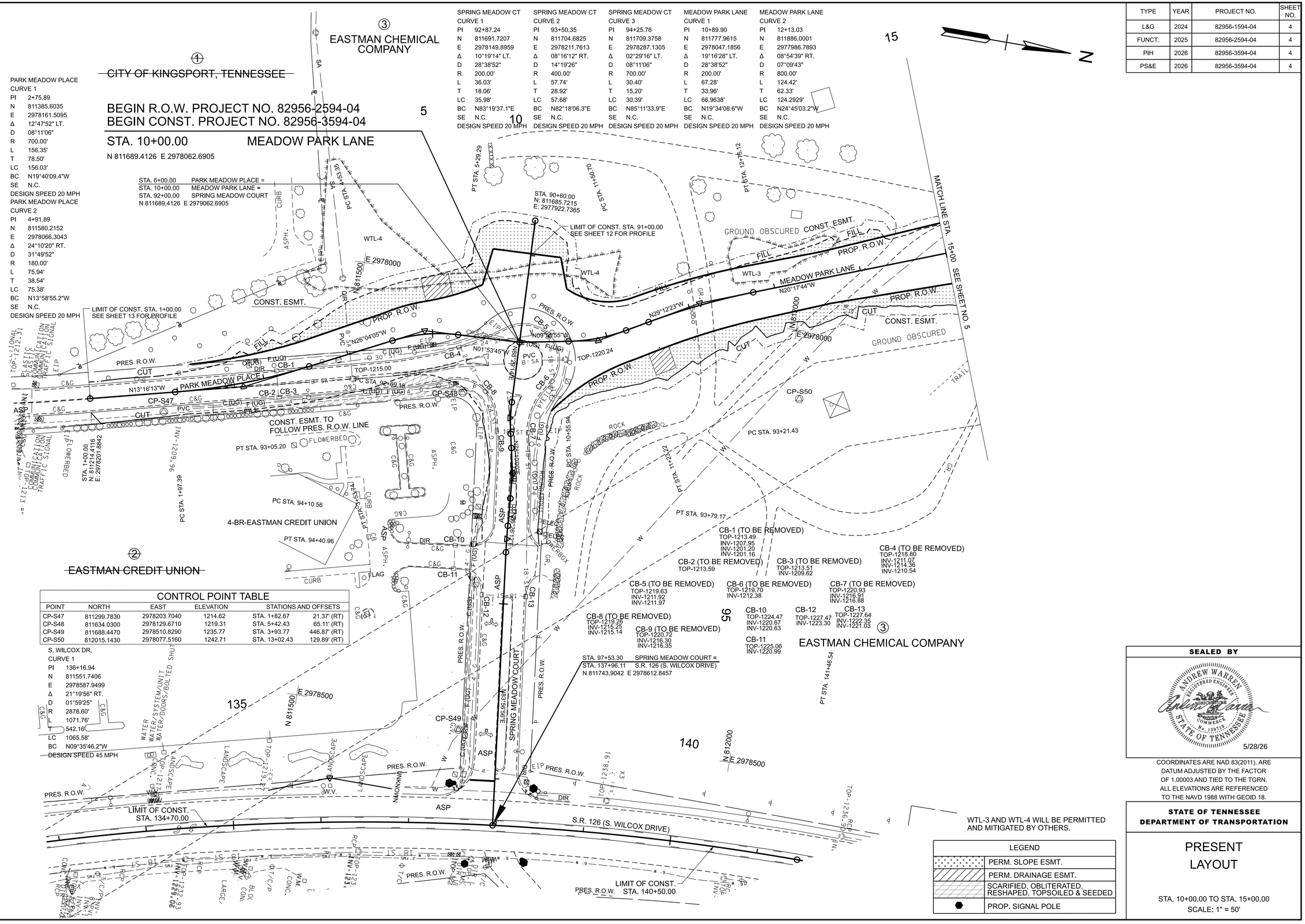
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	4
FUNCT.	2025	82956-2594-04	4
PIH	2026	82956-3594-04	4
PS&E	2026	82956-3594-04	4



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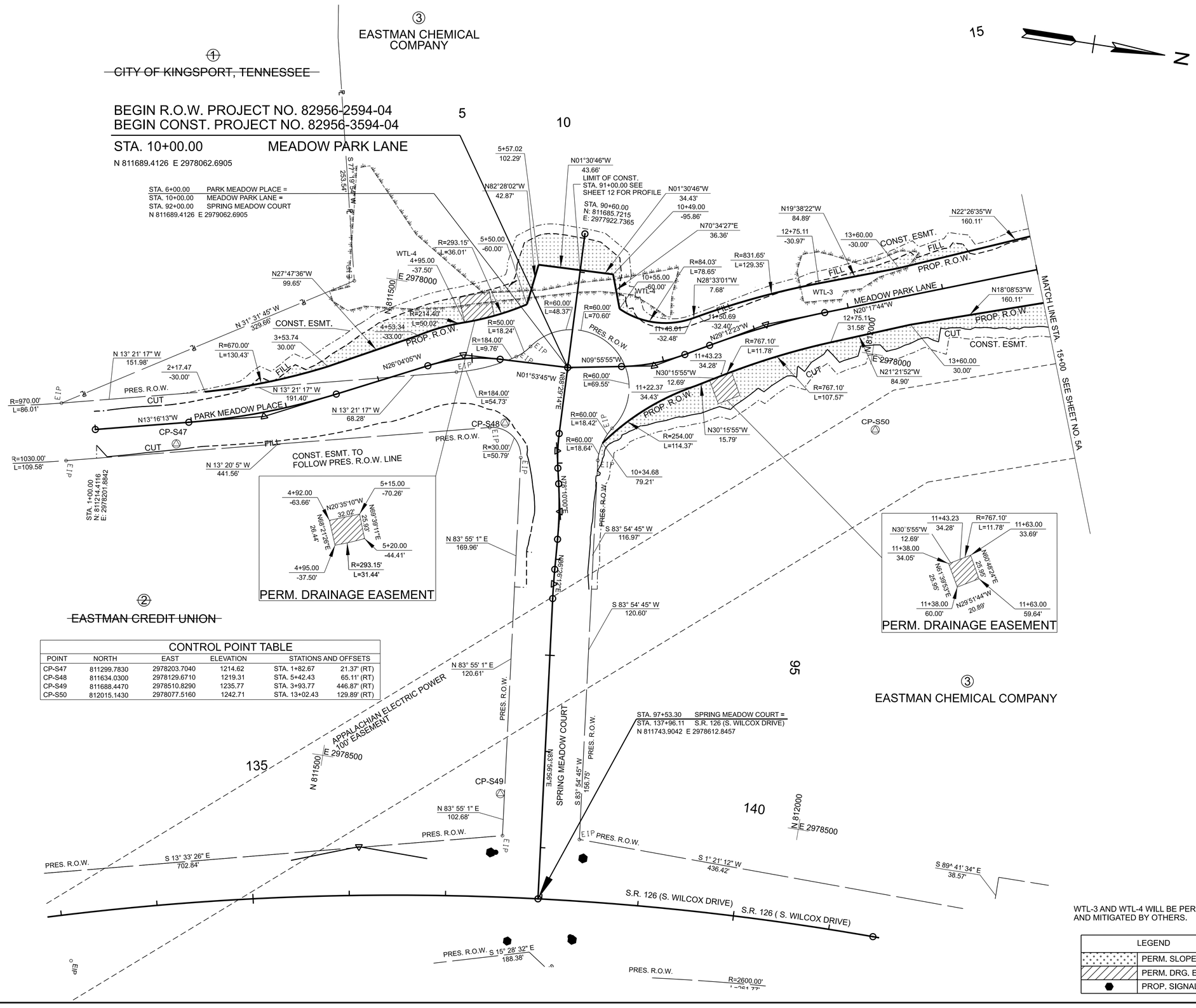
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	4A
FUNCT.	2025	82956-2594-04	4A
PIH	2026	82956-3594-04	4A
PS&E	2026	82956-3594-04	4A



CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S47	811299.7830	2978203.7040	1214.62	STA. 1+82.67	21.37' (RT)
CP-S48	811634.0300	2978129.6710	1219.31	STA. 5+42.43	65.11' (RT)
CP-S49	811688.4470	2978510.8290	1235.77	STA. 3+93.77	446.87' (RT)
CP-S50	812015.1430	2978077.5160	1242.71	STA. 13+02.43	129.89' (RT)

WTL-3 AND WTL-4 WILL BE PERMITTED AND MITIGATED BY OTHERS.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.
	PROP. SIGNAL POLE

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 138719 STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 5+00 TO STA. 15+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	4B
FUNCT.	2025	82956-2594-04	4B
PIH	2026	82956-3594-04	4B
PS&E	2026	82956-3594-04	4B

STA. 5+10.00 29.79' LT. (1 / #12) GT. EL. 1220.27 IN. EL. 1215.15 (CB-2) IN. EL. 1212.03 (CB-6) OUT. EL. 1211.82

STA. 5+07.00 48.00' LT. (1A / EW) OUT. EL. 1211.20

STA. 5+10.00 29.04' RT. (2 / #12) GT. EL. 1220.10 OUT. EL. 1216.20

STA. 92+75.00 26.30' RT. (3 / #12) GT. EL. 1220.11 OUT. EL. 1216.21

STA. 92+75.00 30.59' LT. (4 / #12) GT. EL. 1219.90 IN. EL. 1215.85 IN. EL. 1215.68 OUT. EL. 1215.54

STA. 10+76.00 27.81' RT. (5 / #14) GT. EL. 1220.43 IN. EL. 1214.81 (CB-4) OUT. EL. 1214.58

STA. 10+76.00 31.85' LT. (6 / #14) GT. EL. 1220.39 IN. EL. 1214.00 (CB-7) IN. EL. 1213.79 (CB-5) OUT. EL. 1213.58

STA. 11+50.00 17.08' LT. (7 / #12) GT. EL. 1220.70 IN. EL. 1216.50 (CB-9) IN. EL. 1214.87 (CB-8) OUT. EL. 1214.66

STA. 11+50.00 17.65' RT. (8 / #12) GT. EL. 1220.70 IN. EL. 1215.54 (EW-8A) OUT. EL. 1215.33

STA. 11+50.00 33.00' RT. (8A / EW) IN. EL. 1215.70

STA. 12+75.00 17.96' LT. (9 / #12) GT. EL. 1222.84 IN. EL. 1218.94 (CB-11) IN. EL. 1218.60 (CB-10) OUT. EL. 1218.45

STA. 12+75.00 17.96' RT. (10 / #12) GT. EL. 1222.84 OUT. EL. 1218.94

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2979062.6905

PROP. PED. REFUGE PER CR-51. (TRUNCATED DOMES TO BE INSTALLED BY OTHERS)

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

LIMIT OF CONST. STA. 91+00.00 SEE SHEET 12 FOR PROFILE

SHOULDER TRANS. 0' - 4' STA. 11+55.00 TO STA. 12+65.00

MATCH LINE STA. 15+00 SEE SHEET NO. 5B

MEADOW PARK LANE

CLASS A-1 RIPRAP 13' X 13'

D-PEW-1 PROTECTED E.W.

LIMIT OF CONST. STA. 1+00.00 SEE SHEET 13 FOR PROFILE

E.P. TRANSITION 13.91' TO 18.19' STA. 1+00.00 TO STA. 4+00.00

N26°04'05"W

PARK MEADOW PLACE

N13°16'13"W

50' S.W. TRANSITION

E.P. TRANSITION 13.89' TO 15.65' STA. 1+00.00 TO STA. 4+00.00

STA. 1+00.00
N: 811214.416
E: 2979201.8842

N09°55'55"W

N00°59'45"W

R 34'

N29°12'23"W

N20°17'44"W

BEGIN LANE TAPER 24' - 36' TRANS. STA. 13+60.00

END SPECIAL DITCH STA. 13+00.00 OFF. 28.50' RT.

V-TRM

V-SOD

D-PE-30A TYPE "U" E.W.

PROP. PED. REFUGE PER CR-51. (TRUNCATED DOMES TO BE INSTALLED BY OTHERS)

BEGIN SPECIAL DITCH STA. 10+33.79 OFF. 75.25' RT.

PROP. PED. REFUGE PER CR-51

PROP. CURB RAMP TDOT STD. DWG. CR-20 (TYP.)

FLOWERBED

CURB

ASPH.

C&G

50' S.W. TRANSITION

N26°04'05"W

CB-10

CB-11

CB-12

CB-13

END GRADING
BEGIN RESURFACING
STA. 94+31.00

FLAG

SEE STD. DWGS RD-18-RTS-1, RD-18-RTS-3, T-S-25, T-M-17 AND SHEET NO. 2G FOR ROUNDABOUT DETAILS.

SEE SHEET NOS. 12-14 FOR SIDEROAD PROFILES.
SEE SHEET NOS. SIG-1 TO SIG-4 FOR SIGNAL PLANS.
SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457

SPRING MEADOW COURT

N83°56'56"E

POLE #5 137+50.58 46.42'

POLE #1 137+45.23 46.06'

POLE #2 138+39.94 44.68'

CONC.

LANDSCAPE

LIMIT OF CONST. STA. 134+70.00

S.R. 126 (S. WILCOX DRIVE)

138+32.01 POLE #6 37.52'

POLE #4 137+65.95 45.32'

PROP. CURB RAMP PER CR-20

138+34.24 POLE #3 40.32'

LIMIT OF CONST. STA. 140+50.00

218 [198]
122 [49] EASTMAN AREA4 96 [149]
339 [266]
461 [315] 435 [415]
337 [266]
709 [650] PARK MEADOW PLACE 124 [49] 117 [217] MEADOW PARK LANE 621 [586]
318 [198]
372 [384]
496 [439] 420 [605]
303 [388]
163 [205]
333 [228] SPRING MEADOW COURT 257 [400]
590 [628]

2046 DHV
PM
[AM]

590 [628]
333 [228] SPRING MEADOW CT. 257 [400]
1498 [850] S.R. 126 1350 [759] S.R. 126 1526 [1004]
2690 [2363] 2826 [2490]
1192 [1513] 1100 [1349] HUNTER LN. 1300 [1486]
6 [9]

2046 DHV
PM
[AM]

LEGEND	
⬢	PROP. SIGNAL POLE
	PROP. RESURFACING

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
PRINCIPAL
COMMERCE
No. 130715
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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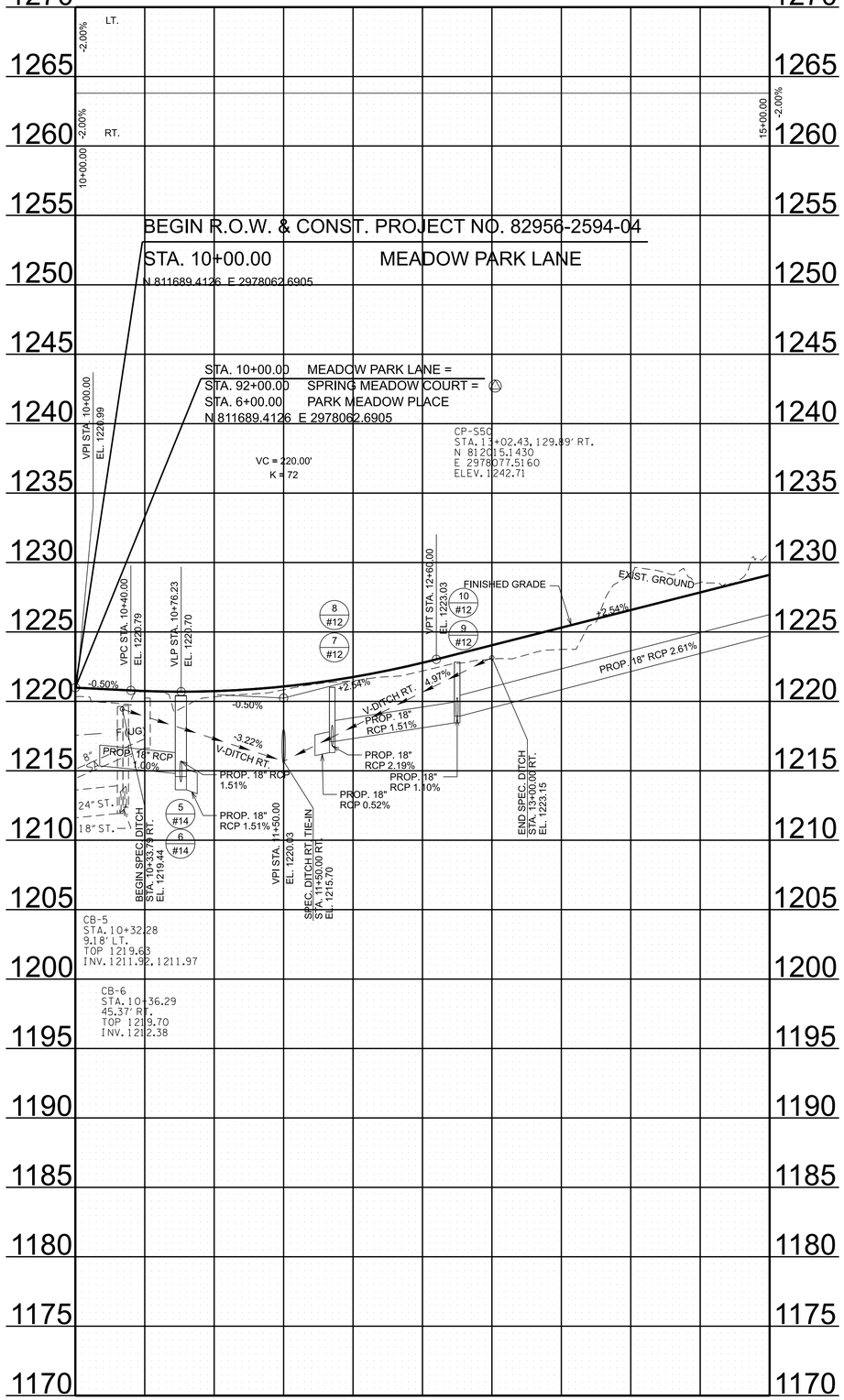
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	4C
FUNCT.	2025	82956-2594-04	4C
PIH	2026	82956-3594-04	4C
PS&E	2026	82956-3594-04	4C



SEE SHEET NOS. 12-14 FOR SIDEROAD PROFILES.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130718
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 10+00.00 TO STA. 15+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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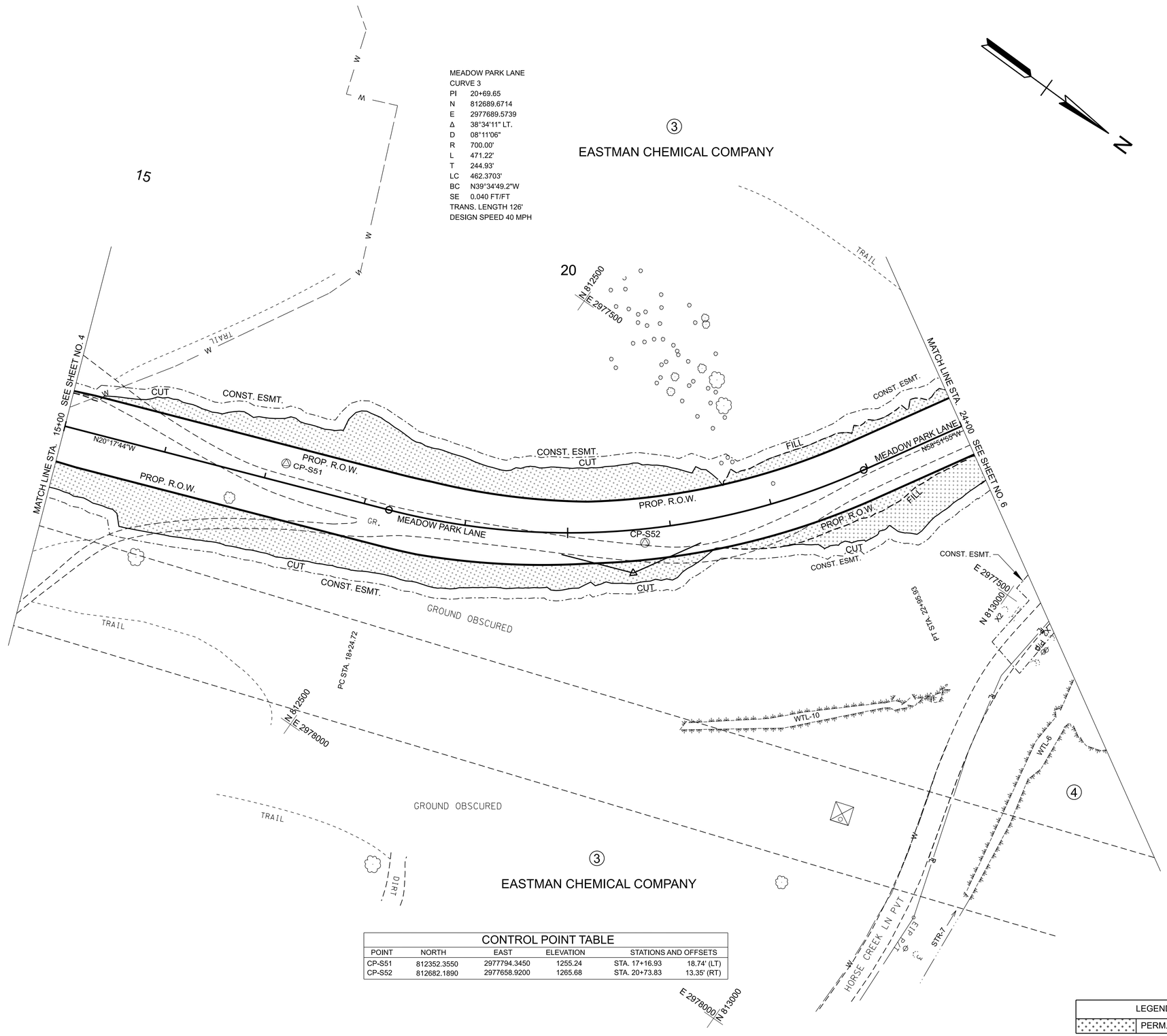
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	5
FUNCT.	2025	82956-2594-04	5
PIH	2026	82956-3594-04	5
PS&E	2026	82956-3594-04	5

MEADOW PARK LANE
CURVE 3
PI 20+69.65
N 812689.6714
E 2977689.5739
Δ 38°34'11" LT.
D 08°11'06"
R 700.00'
L 471.22'
T 244.93'
LC 462.3703'
BC N39°34'49.2"W
SE 0.040 FT/FT
TRANS. LENGTH 126'
DESIGN SPEED 40 MPH



CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S51	812352.3550	2977794.3450	1255.24	STA. 17+16.93	18.74' (LT)
CP-S52	812682.1890	2977658.9200	1265.68	STA. 20+73.83	13.35' (RT)

LEGEND	
	PERM. SLOPE ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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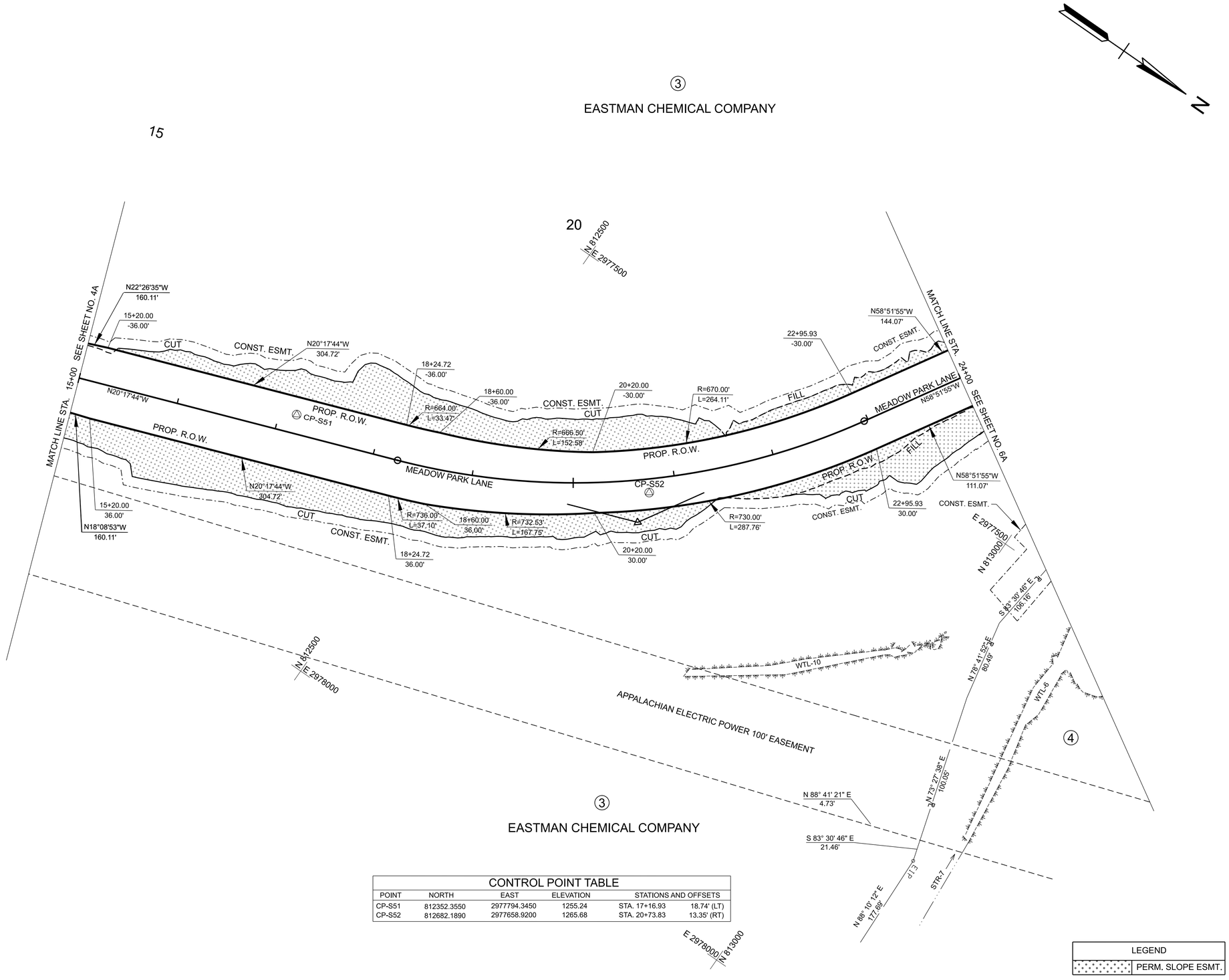
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	5A
FUNCT.	2025	82956-2594-04	5A
PIH	2026	82956-3594-04	5A
PS&E	2026	82956-3594-04	5A



CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S51	812352.3550	2977794.3450	1255.24	STA. 17+16.93	18.74' (LT)
CP-S52	812682.1890	2977658.9200	1265.68	STA. 20+73.83	13.35' (RT)

LEGEND	
	PERM. SLOPE ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WTL-6, WTL-10, OR STR-7 AND THAT SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS. SEE NOTE 3 OF "WETLAND SPECIAL NOTES" ON SHEET 2E.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	5B
FUNCT.	2025	82956-2594-04	5B
PIH	2026	82956-3594-04	5B
PS&E	2026	82956-3594-04	5B

STA. 16+20.00 23.96' LT. — 11 #12 — GT. EL. 1232.57, IN. EL. 1228.67 (CB-13), IN. EL. 1227.98 (CB-12), OUT. EL. 1227.83

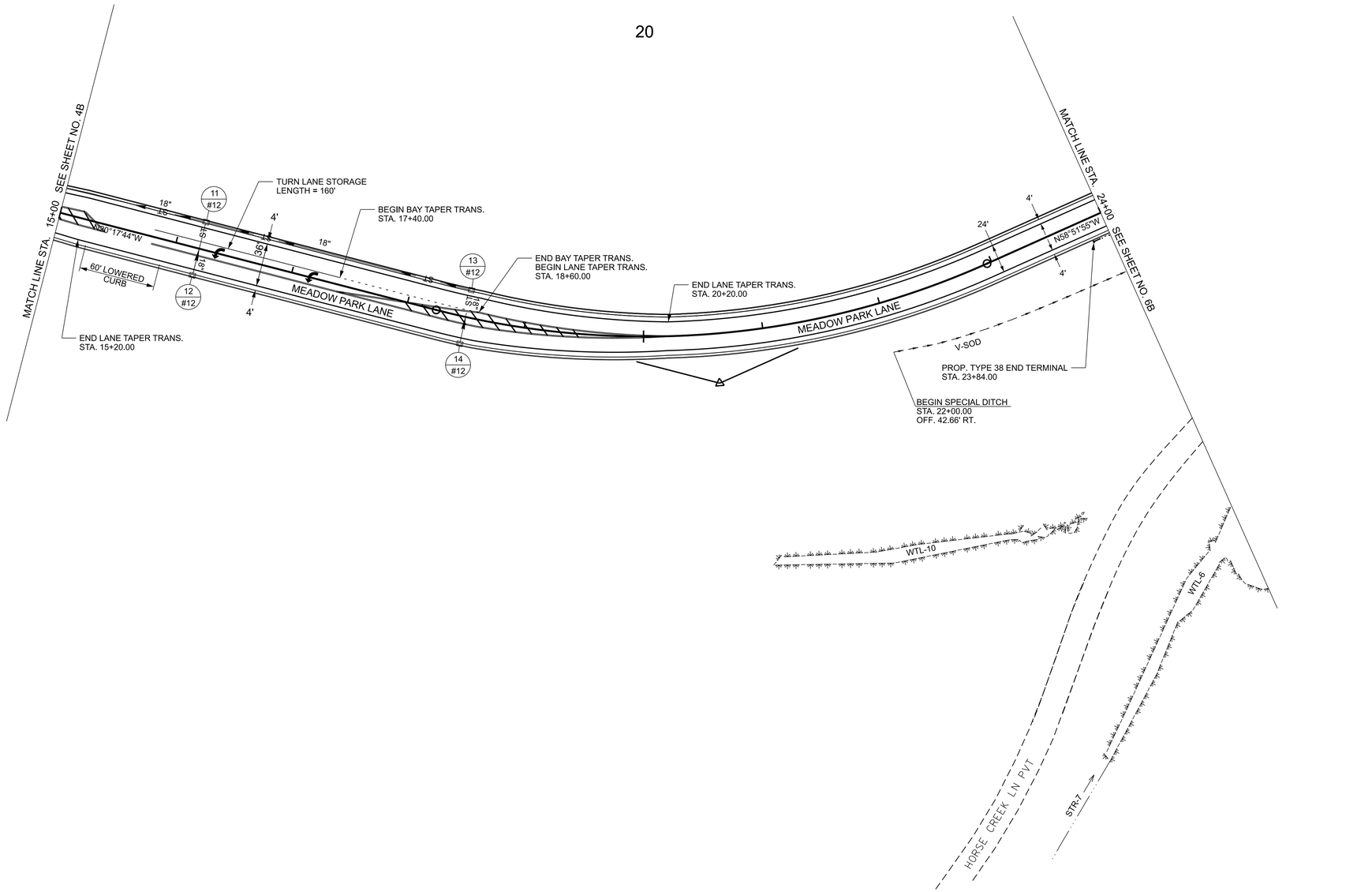
STA. 16+20.00 23.96' RT. — 12 #12 — GT. EL. 1232.57, OUT. EL. 1228.67

STA. 18+50.00 23.96' LT. — 13 #12 — GT. EL. 1246.39, IN. EL. 1242.49 (CB-14), OUT. EL. 1242.34

STA. 18+50.00 23.96' RT. — 14 #12 — GT. EL. 1247.19, OUT. EL. 1243.29

15

20



SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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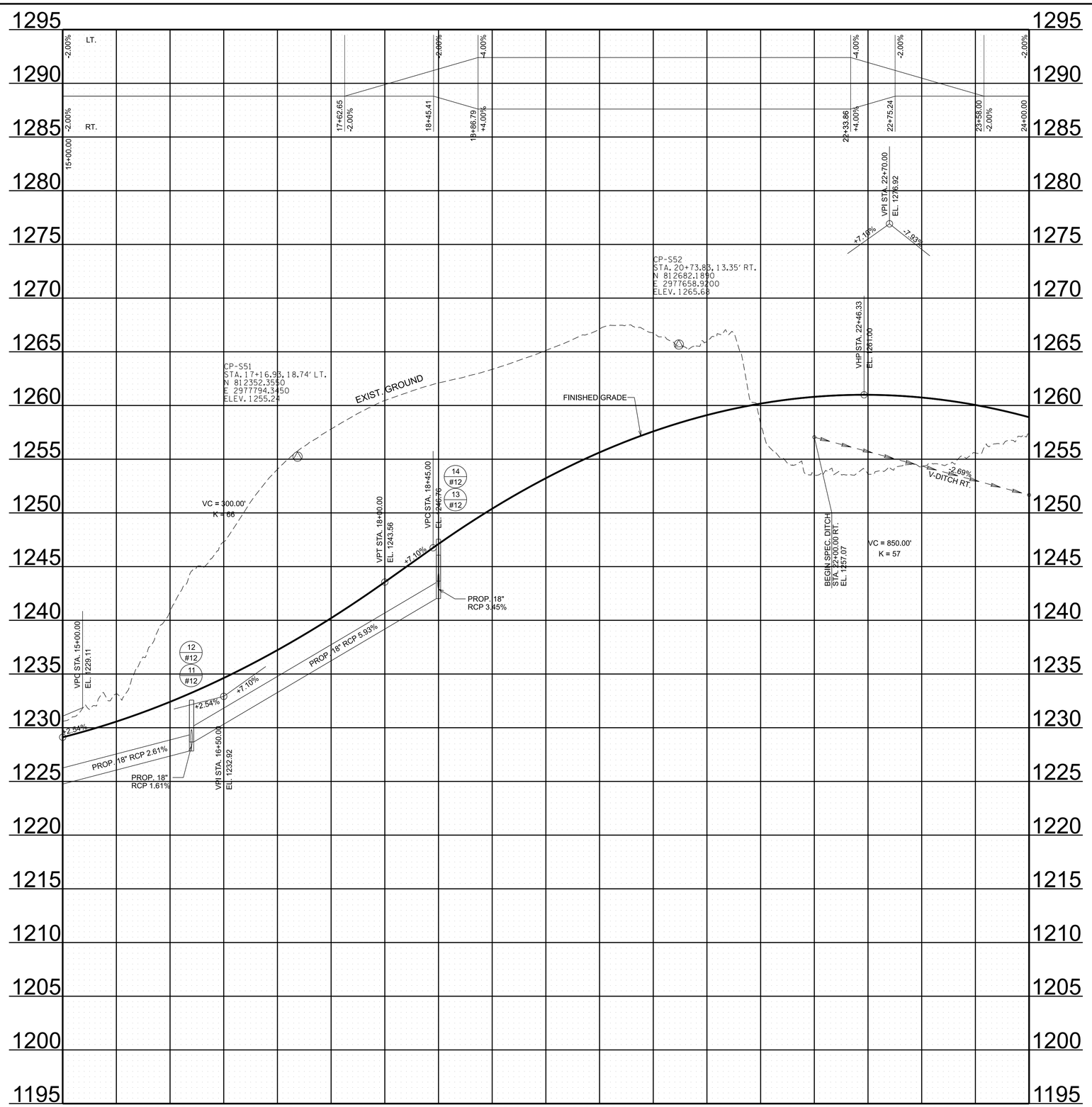

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	5C
FUNCT.	2025	82956-2594-04	5C
PIH	2026	82956-3594-04	5C
PS&E	2026	82956-3594-04	5C

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 136719
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 15+00.00 TO STA. 24+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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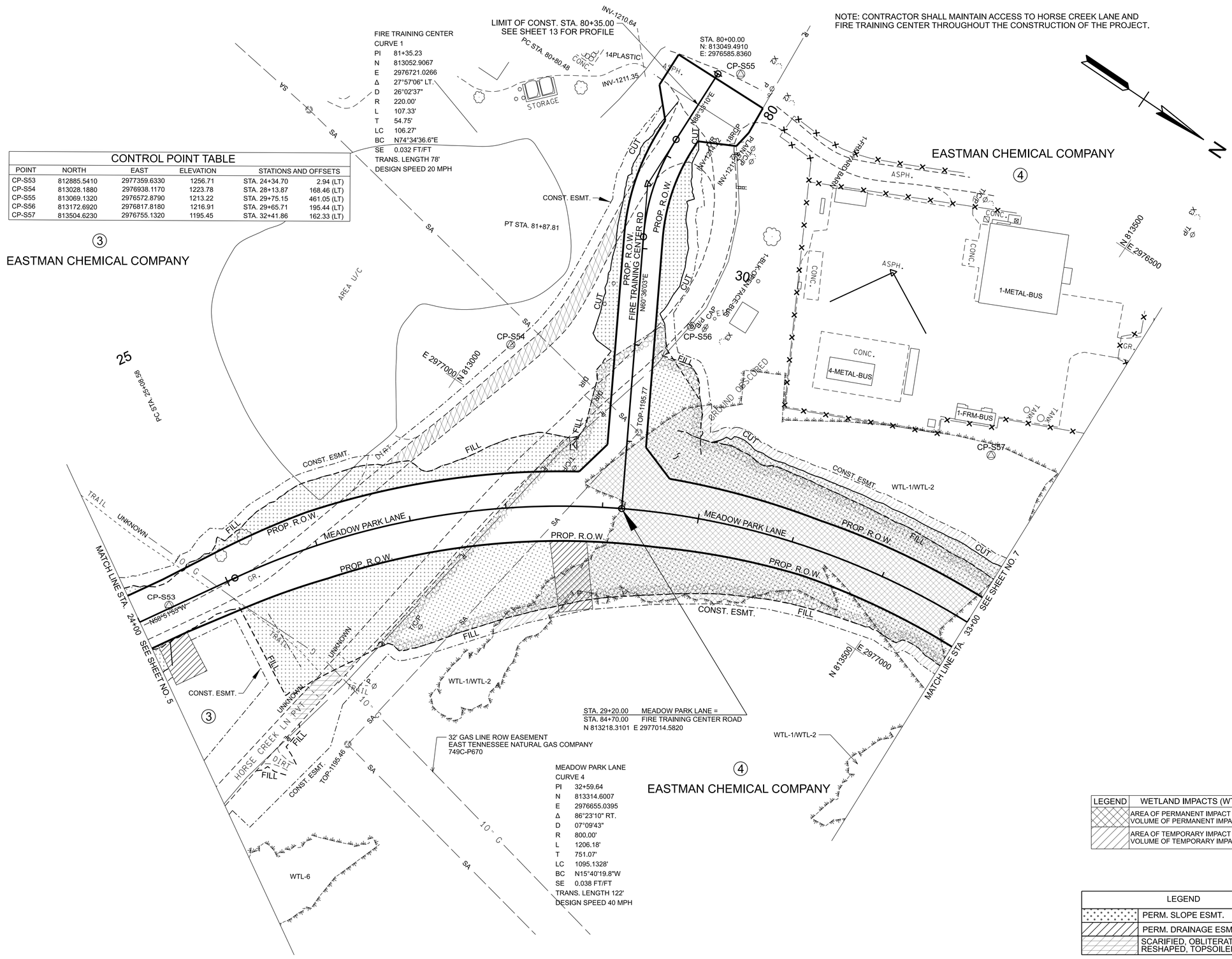
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	6
FUNCT.	2025	82956-2594-04	6
PIH	2026	82956-3594-04	6
PS&E	2026	82956-3594-04	6

NOTE: CONTRACTOR SHALL MAINTAIN ACCESS TO HORSE CREEK LANE AND FIRE TRAINING CENTER THROUGHOUT THE CONSTRUCTION OF THE PROJECT.



CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S53	812885.5410	2977359.6330	1256.71	STA. 24+34.70	2.94 (LT)
CP-S54	813028.1880	2976938.1170	1223.78	STA. 28+13.87	168.46 (LT)
CP-S55	813069.1320	2976572.8790	1213.22	STA. 29+75.15	461.05 (LT)
CP-S56	813172.6920	2976817.8180	1216.91	STA. 29+65.71	195.44 (LT)
CP-S57	813504.6230	2976755.1320	1195.45	STA. 32+41.86	162.33 (LT)

STA. 29+20.00 MEADOW PARK LANE =
STA. 84+70.00 FIRE TRAINING CENTER ROAD
N 813218.3101 E 2977014.5820

32' GAS LINE ROW EASEMENT
EAST TENNESSEE NATURAL GAS COMPANY
749C-P670

MEADOW PARK LANE
CURVE 4
PI 32+59.64
N 813314.6007
E 2976655.0395
Δ 86°23'10" RT.
D 07°09'43"
R 800.00'
L 1206.18'
T 751.07'
LC 1095.1328'
BC N15°40'19.8"W
SE 0.038 FT/FT
TRANS. LENGTH 122'
DESIGN SPEED 40 MPH

LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRAINAGE ESMT.
	SCARIFIED, OBLITERATED, RESHAPED, TOPSOILED & SEEDED

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	6A
FUNCT.	2025	82956-2594-04	6A
PIH	2026	82956-3594-04	6A
PS&E	2026	82956-3594-04	6A

CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S53	812885.5410	2977359.6330	1256.71	STA. 24+34.70	2.94 (LT)
CP-S54	813028.1880	2976938.1170	1223.78	STA. 28+13.87	168.46 (LT)
CP-S55	813069.1320	2976572.8790	1213.22	STA. 29+75.15	461.05 (LT)
CP-S56	813172.6920	2976817.8180	1216.91	STA. 29+65.71	195.44 (LT)
CP-S57	813504.6230	2976755.1320	1195.45	STA. 32+41.86	162.33 (LT)

③

EASTMAN CHEMICAL COMPANY

25

PERM. DRAINAGE EASEMENT

24+40.00 30.00'
24+07.00 30.00'
N68°51'55"W 33.00'
N28°35'24"E 45.04'
N31°8'5"E 45.00'
N68°51'55"W 35.00'
24+07.00 75.00'
24+42.00 75.00'

E 2977000 N 813000

CP-S54

CONST. ESMT.

MATCH LINE STA. 24+00 SEE SHEET NO. 5A

CP-S53

N68°51'55"W

24+40.00 -30.00'
N61°00'46"W 68.62'

25+08.58 -32.57'
R=833.80' L=95.40'

26+00.00 -36.00'
R=836.00' L=248.74'

FILL
PROP. R.O.W.
MEADOW PARK LANE
PROP. R.O.W.

24+40.00 30.00'
N56°43'03"W 68.62'
CONST. ESMT.

S 77° 38' 9" E 44.99'
S 77° 38' 9" E 93.57'
S 83° 30' 46" E 106.16'

WTL-6

CONST. ESMT.

S46°47'33"W 37.54'
80+70.00 20.00'
N88°33'10"E 10.48'
80+80.48 20.00'
R=240.00' L=117.08'
81+87.81 20.00'

CUT
PROP. R.O.W.
FIRE TRAINING CENTER RD
177.80' PROP. R.O.W.
N60°36'03"E
N60°36'03"E 155.80'

80+05.00 45.00'
S88°33'10"W 37.00'
80+42.00 45.00'

N01°26'50"W 45.00'
STA. 80+00.00
N: 813049.4910
E: 2976585.8360
N01°26'50"W 58.40'
CP-S55
N65°54'35"E 138.65'
80+05.00 58.40'
N88°33'10"E
N26°52'31"W 40.18'
S85°54'35"W 29.31'
80+34.27 59.75'
N80°49'47"W 18.80'
80+52.75 56.28'
80+70.00 20.00'
N 53° 18' 27" E 66.91'
80+80.48 20.00'
N88°33'10"E 10.48'
N68°8'24"E 53.38'
R=200.00' L=97.57'
81+87.81 20.00'
N 81° 30' 18" E 53.38'
CAP
CP-S56
S 82° 36' 50" E 83.11'
83+22.29 -21.06'
FILL
S75°55'49"E 1.54'
83+23.41 -20.00'
S75°55'49"E 29.07'
84+05.00 -20.00'
N18°56'04"E 40.60'
29+65.00 -36.00'
CUT
CONST. ESMT.
WTL-1/WTL-2
R=832.50' L=161.51'
31+20.00 -30.00'
R=830.00' L=342.37'
FILL
CUT
PROP. R.O.W.
MEADOW PARK LANE
PROP. R.O.W.
CONST. ESMT.
FILL
31+20.00 30.00'
R=770.00' L=240.62'
N 813500 E 2977000
MATCH LINE STA. 33+00 SEE SHEET NO. 7A
CP-S57

S 75° 55' 49" E 29.07'
83+65.61 20.00'
S 75° 55' 49" E 69.60'
84+05.00 20.00'
FILL
N60°36'03"E 89.39'
R=836.00' L=38.63'
S81°2'10"E 36.80'
S74°42'50"E 40.60'
28+38.03 -36.00'
28+75.00 -36.00'
S81°2'10"E 42.96'
R=764.00' L=38.20'
R=764.00' L=71.63'
S81°2'10"E 44.84'
27+60.89 36.00'
R=764.00' L=80.33'
S81°2'10"E 205.26'
R=764.00' L=153.65'
26+00.00 36.00'
R=765.15' L=87.57'
25+08.58 32.57'
29+60.00 36.00'
R=766.42' L=153.52'
WTL-1/WTL-2
WTL-1/WTL-2

STA. 29+20.00 MEADOW PARK LANE =
STA. 84+70.00 FIRE TRAINING CENTER ROAD
N 813218.3101 E 2977014.5820

28+45.00 36.00'
28+85.00 36.00'
N48°35'1"E 74.55'
N59°59'26"E 69.60'
28+55.00 110.00'
N40°50'14"W 34.98'
28+95.00 105.00'

PERM. DRAINAGE EASEMENT

④

EASTMAN CHEMICAL COMPANY

N 813500 E 2976500

LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
METROPOLITAN COMMERCE
No. 130718
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

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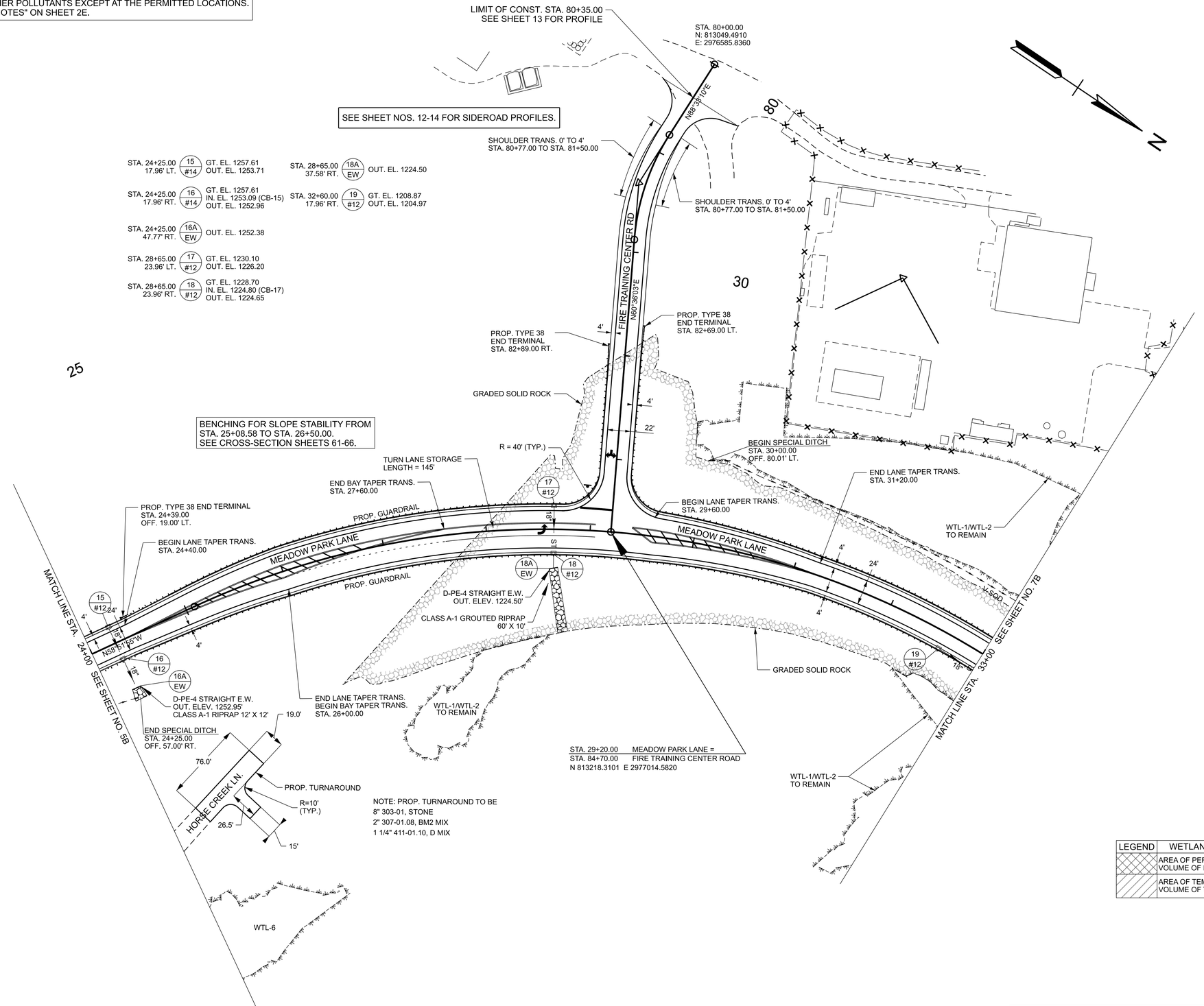
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WTL-1/WTL-2 OR WTL-6 AND THAT SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS. SEE "WETLAND SPECIAL NOTES" ON SHEET 2E.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	6B
FUNCT.	2025	82956-2594-04	6B
PIH	2026	82956-3594-04	6B
PS&E	2026	82956-3594-04	6B



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

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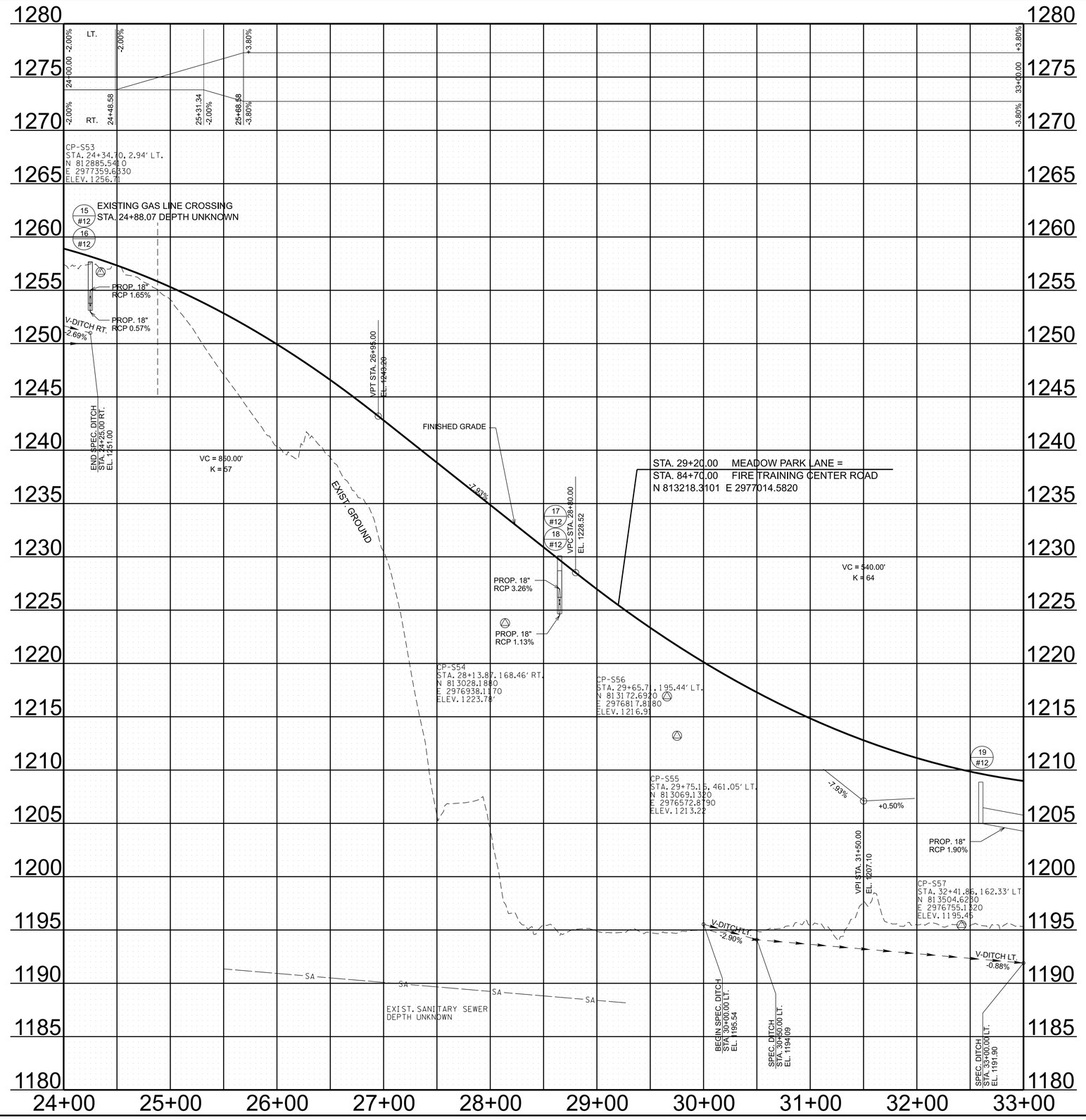
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	6C
FUNCT.	2025	82956-2594-04	6C
PIH	2026	82956-3594-04	6C
PS&E	2026	82956-3594-04	6C



SEALED BY

ANDREW WARREN
LICENSED PROFESSIONAL ENGINEER
REGISTERED ENGINEER
No. 130716
STATE OF TENNESSEE
5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 24+00.00 TO STA. 33+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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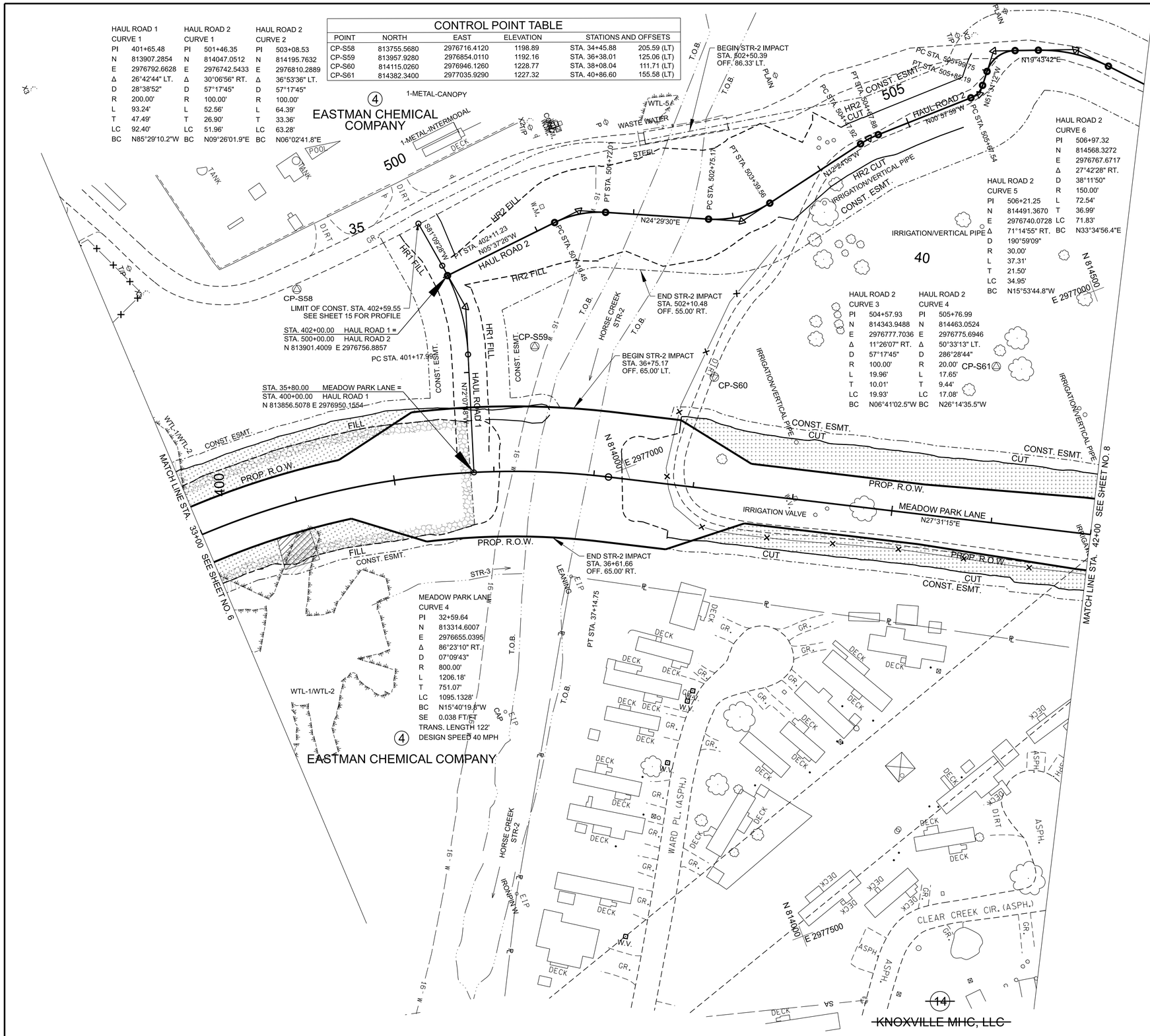
HAUL ROAD 1 CURVE 1		HAUL ROAD 2 CURVE 1		HAUL ROAD 2 CURVE 2	
PI	401+65.48	PI	501+46.35	PI	503+08.53
N	813907.2854	N	814047.0512	N	814195.7632
E	2976792.6628	E	2976742.5433	E	2976810.2889
Δ	26°42'44" LT.	Δ	30°06'56" RT.	Δ	36°53'36" LT.
D	28°38'52"	D	57°17'45"	D	57°17'45"
R	200.00'	R	100.00'	R	100.00'
L	93.24'	L	52.56'	L	64.39'
T	47.49'	T	26.90'	T	33.36'
LC	92.40'	LC	51.96'	LC	63.28'
BC	N85°29'10.2"W	BC	N09°26'01.9"E	BC	N06°02'41.8"E

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S58	813755.5680	2976716.4120	1198.89	STA. 34+45.88	205.59 (LT)
CP-S59	813957.9280	2976854.0110	1192.16	STA. 36+38.01	125.06 (LT)
CP-S60	814115.0260	2976946.1260	1228.77	STA. 38+08.04	111.71 (LT)
CP-S61	814382.3400	2977035.9290	1227.32	STA. 40+86.60	155.58 (LT)

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST THIS LIMIT HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	7
FUNCT.	2025	82956-2594-04	7
PIH	2026	82956-3594-04	7
PS&E	2026	82956-3594-04	7



HAUL ROAD 2 CURVE 6			
PI	506+97.32	D	38°11'50"
N	814568.3272	R	150.00'
E	2976767.6717	L	72.54'
Δ	27°42'28" RT.	T	36.99'
LC	71.83'	BC	N33°34'56.4"E

HAUL ROAD 2 CURVE 5			
PI	506+21.25	D	190°59'09"
N	814491.3670	R	30.00'
E	2976740.0728	L	37.31'
Δ	71°14'55" RT.	T	21.50'
LC	34.95'	BC	N15°53'44.8"W

HAUL ROAD 2 CURVE 3			
PI	504+57.93	D	57°17'45"
N	814343.9488	R	100.00'
E	2976777.7036	L	19.96'
Δ	11°26'07" RT.	T	10.01'
LC	19.93'	BC	N06°41'02.5"W

HAUL ROAD 2 CURVE 4			
PI	505+76.99	D	286°28'44"
N	814463.0524	R	20.00'
E	2976775.6946	L	17.65'
Δ	50°33'13" LT.	T	9.44'
LC	17.08'	BC	N26°14'35.5"W

MEADOW PARK LANE CURVE 4			
PI	32+59.64	D	07°09'43"
N	813314.6007	R	800.00'
E	2976655.0395	L	1206.18'
Δ	86°23'10" RT.	T	751.07'
LC	1095.1328'	BC	N15°40'19.8"W
SE	0.038 FT/FT		
TRANS. LENGTH 122'			
DESIGN SPEED 40 MPH			

LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
DIRECTOR OF COMMERCE
No. 130716
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	7A
FUNCT.	2025	82956-2594-04	7A
PIH	2026	82956-3594-04	7A
PS&E	2026	82956-3594-04	7A

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
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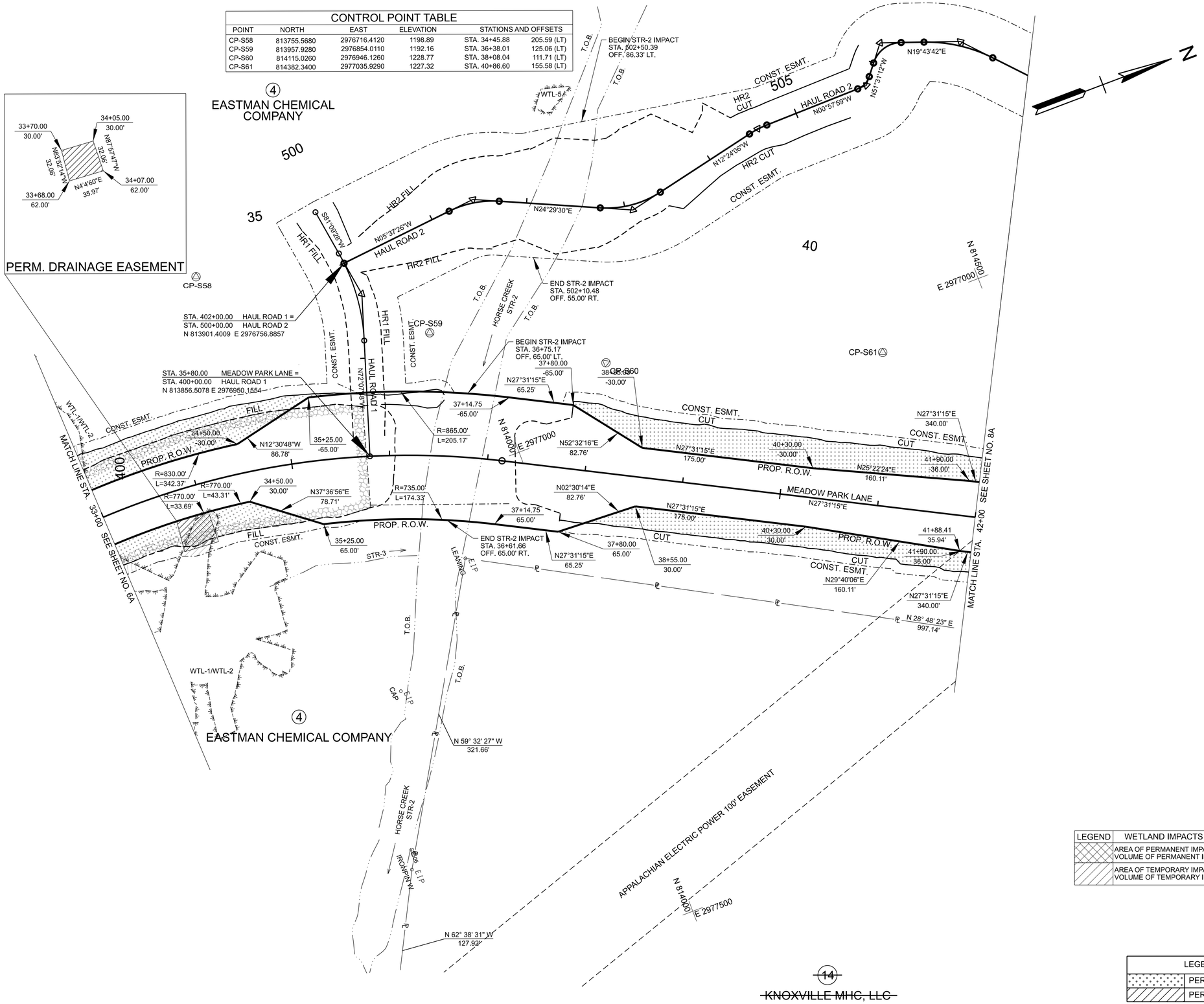
CP-S60	814115.0260	2976946.1260	1228.77	STA. 38+08.04	111.71 (LT)
CP-S61	814382.3400	2977035.9290	1227.32	STA. 40+86.60	155.58 (LT)



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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STA. 33+48.00 (20 #12) 17.96' LT. GT. EL. 1208.66 OUT. EL. 1204.76

STA. 33+48.00 (21 #14) 17.96' LT. GT. EL. 1208.54 IN. EL. 1204.48 (CB-20) IN. EL. 1204.39 (CB-22) OUT. EL. 1204.16

STA. 34+28.00 (22 #12) 17.96' LT. GT. EL. 1208.66 OUT. EL. 1204.76

STA. 33+48.00 (23 #12) 17.96' RT. GT. EL. 1207.73 IN. EL. 1203. 83 (CB-19) OUT. EL. 1203.66

STA. 33+88.00 (24 #14) 17.96' RT. GT. EL. 1207.59 IN. EL. 1203.53 (CB-21) IN. EL. 1203.47 (CB-23) IN. EL. 1203.46 (CB-25) OUT. EL. 1203.23

STA. 33+88.00 (24A EW) 31.00' RT. OUT. EL. 1203.15

STA. 34+28.00 (25 #12) 17.96' RT. GT. EL. 1207.71 OUT. EL. 1203.81

STA. 38+35.00 (26 #12) 20.92' LT. GT. EL. 1210.01 OUT. EL. 1206.11

STA. 38+35.00 (27 #12) 20.92' RT. GT. EL. 1209.94 IN. EL. 1205.55 (CB-26) IN. EL. 1204.94 (CB-29) OUT. EL. 1202.00

STA. 11+50.00 (27A EW) 33.00' RT. OUT. EL. 1198.00

STA. 40+50.00 (28 #12) 18.71' LT. GT. EL. 1211.04 OUT. EL. 1207.14

STA. 40+50.00 (29 #12) 18.71' RT. GT. EL. 1211.04 IN. EL. 1206.69 (CB-28) IN. EL. 1206.29 (CB-31) OUT. EL. 1206.12

SEE SHEET NOS. 15-19 FOR HAUL ROAD PROFILES.

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	7B
FUNCT.	2025	82956-2594-04	7B
PIH	2026	82956-3594-04	7B
PS&E	2026	82956-3594-04	7B

N

WTL-5

T.O.B.

BEGIN STR-2 IMPACT
STA. 502+50.39
OFF. 86.33' LT.

6 - 72" PIPES, L = 130'
SEE STD. DWG. EC-STR-25 FOR TEMP. CULVERT CROSSING DETAILS

HAUL ROAD 2
N19°43'42"E
N00°57'59"W
N12°24'06"W
N24°29'30"E
N05°37'26"W
S85°09'28"W

END STR-2 IMPACT
STA. 502+10.48
OFF. 55.00' RT.

LIMIT OF CONST. STA. 402+59.55
SEE SHEET 15 FOR PROFILE

STA. 402+00.00 HAUL ROAD 1 =
STA. 500+00.00 HAUL ROAD 2
N 813901.4009 E 2976756.8857

BEGIN STR-2 IMPACT
STA. 36+75.17
OFF. 65.00' LT.

END SPECIAL DITCH
STA. 36+50.00
OFF. 58.44' LT.

HORSE CREEK STR-2

BRIDGE HYDRAULIC DATA

DRAINAGE AREA	46.99 SQ. MI.
DESIGN DISCHARGE (100 YR)	5,000 CFS
WATER AREA PROVIDED BELOW EL. 1196.91	797.14 SQ. FT.
100-YEAR VELOCITY	6.27 FT/S
100-YEAR BRIDGE BACKWATER	0.79 FT AT EL. 1196.94
100-YEAR DISCHARGE	5,000 CFS
500-YEAR DISCHARGE	7,500 CFS
ROADWAY OVERTOPPING EL	1209.24 FT
FILL BELOW OHWM FOR TEMP. STREAM CROSSING	515 C.Y.
BRIDGE LENGTH X WIDTH	180' X 43'8"
LENGTH ALONG STREAM BANK	45 FT.
LENGTH ACROSS STREAM	130 FT.

STA. 35+80.00 MEADOW PARK LANE =
STA. 400+00.00 HAUL ROAD 1
N 813856.5078 E 2976950.1554

HAUL ROAD 1
N72°07'48"W

PROP. BRIDGE #1 3-SPAN BRIDGE WITH AASHTO TYPE III BEAMS OVER HORSE CREEK STA. 35+75.50 TO STA. 37+55.50

GRADED SOLID ROCK
V-SOD
WTL-1/WTL-2 TO REMAIN
4' TO 6' SHLD. TRANSITION STA. 34+50.00 TO STA. 35+50.00
PROP. GUARDRAIL
6' TO 4' SHLD. TRANSITION STA. 37+80.00 TO STA. 38+80.00
BEGIN LANE TAPER TRANS. STA. 40+30.00
PROP. TYPE 38 END TERMINAL STA. 39+31.00 LT.
END LANE TAPER TRANS. BEGIN BAY TAPER TRANS. STA. 41+90.00
MEADOW PARK LANE
N27°31'15"E
MATCH LINE STA. 39+00 SEE SHEET NO. 6B
MATCH LINE STA. 42+00 SEE SHEET NO. 8B
D-PE-4 STRAIGHT E.W. OUT. ELEV. 1203.15'
CLASS B RIPRAP 14' X 12'
END STR-2 IMPACT STA. 36+61.66 OFF. 65.00' RT.
PROP. TYPE 38 END TERMINAL STA. 38+86.00 RT.
STR-3
CLASS A-1 GROUTED RIPRAP 30' X 10'
WTL-1/WTL-2 TO REMAIN
WARD PL. (ASPH.)
CLEAR CREEK CIR. (ASPH.)
ASPH.

LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

1. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF HORSE CREEK (STR-2), STR-3, WTL-1/WTL-2 OR WTL-5 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS. SEE "WETLAND SPECIAL NOTES" ON SHEET 2E.
2. THE TEMPORARY HAUL ROAD AND ASSOCIATED FILLS IN HORSE CREEK (STR-2) AND BANKS WILL BE REMOVED AFTER CONSTRUCTION AND THE STREAM BANKS AND BUFFER AREA MUST BE RETURNED TO THEIR ORIGINAL CONDITION.

SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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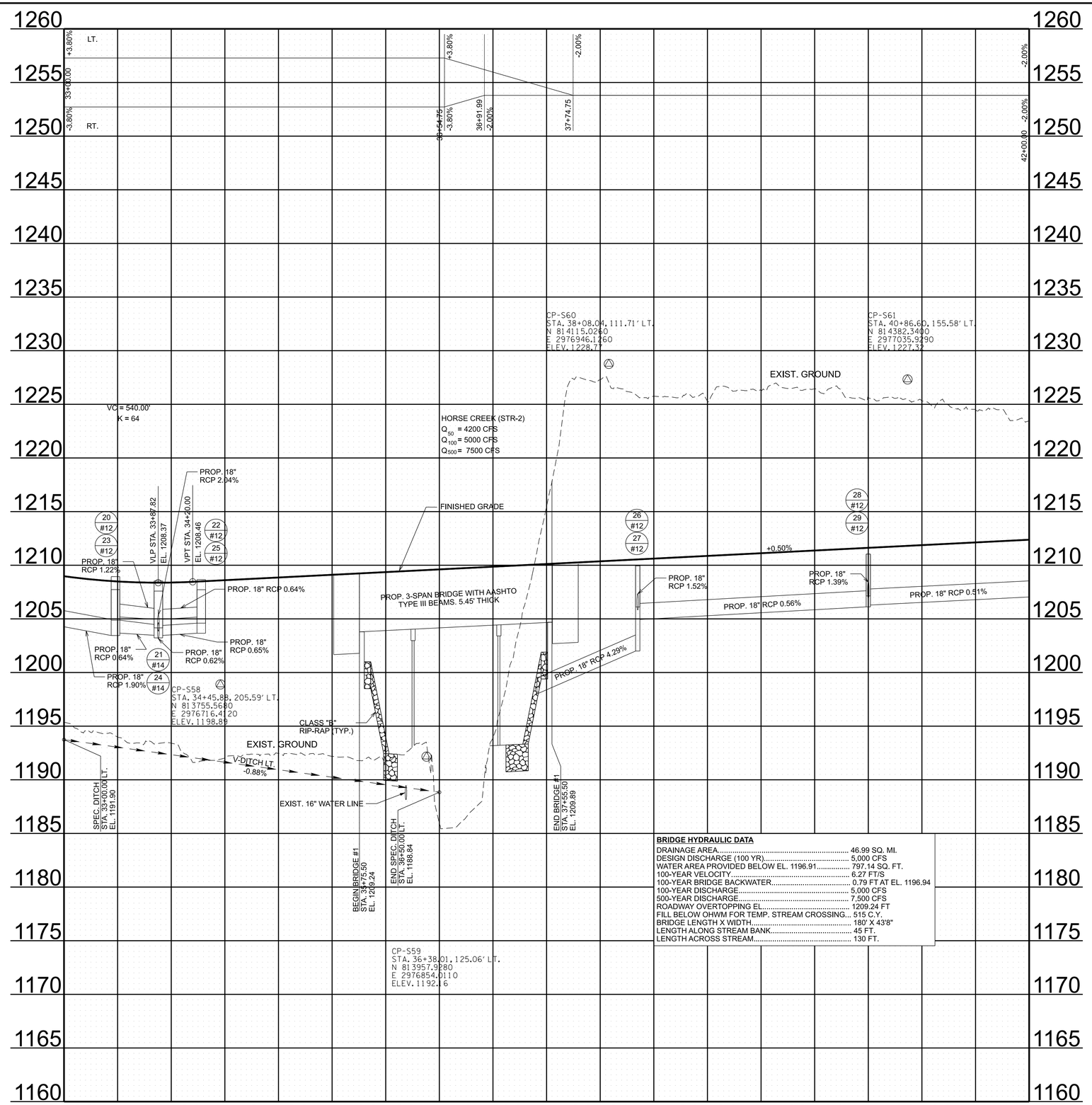
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	7C
FUNCT.	2025	82956-2594-04	7C
PIH	2026	82956-3594-04	7C
PS&E	2026	82956-3594-04	7C



BRIDGE HYDRAULIC DATA

DRAINAGE AREA	46.99 SQ. MI.
DESIGN DISCHARGE (100 YR)	5,000 CFS
WATER AREA PROVIDED BELOW EL. 1196.91	797.14 SQ. FT.
100-YEAR VELOCITY	6.27 FT/S
100-YEAR BRIDGE BACKWATER	0.79 FT AT EL. 1196.94
100-YEAR DISCHARGE	5,000 CFS
500-YEAR DISCHARGE	7,500 CFS
ROADWAY OVERTOPPING EL.	1209.24 FT
FILL BELOW OHWM FOR TEMP. STREAM CROSSING	515 C.Y.
BRIDGE LENGTH X WIDTH	180' X 43'8"
LENGTH ALONG STREAM BANK	45 FT.
LENGTH ACROSS STREAM	130 FT.

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COMMERCE
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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 33+00.00 TO STA. 42+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

SEE SHEET 16 FOR HAUL ROAD PROFILE OVER HORSE CREEK (STR-2)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	8
FUNCT.	2025	82956-2594-04	8
PIH	2026	82956-3594-04	8
PS&E	2026	82956-3594-04	8

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST THIS LIMIT HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S62	814799.8310	2977254.2870	1215.86	STA. 45+57.75	154.84 (LT)
CP-S63	815136.8870	2977419.8610	1206.28	STA. 48+95.09	189.93 (LT)

HAUL ROAD 2
CURVE 7

PI	510+37.00
N	814799.0701
E	2977018.9213
Δ	25°24'01" LT.
D	16°22'13"
R	350.00'
L	155.16'
T	78.88'
LC	153.89'
BC	N34°44'09.9"E

HAUL ROAD 2
CURVE 8

PI	512+61.73
N	815009.7841
E	2977104.2091
Δ	07°40'23" LT.
D	16°22'13"
R	350.00'
L	46.87'
T	23.47'
LC	46.84'
BC	N18°11'57.7"E

HAUL ROAD 2
CURVE 9

PI	515+47.08
N	815286.2880
E	2977175.0118
Δ	36°29'25" RT.
D	16°22'13"
R	350.00'
L	222.91'
T	115.38'
LC	219.16'
BC	N32°36'28.7"E

MEADOW PARK LANE
CURVE 5

PI	48+03.60
N	814946.3126
E	2977505.2091
Δ	13°32'05" RT.
D	05°43'46"
R	1000.00'
L	236.22'
T	118.66'
LC	235.6758'
BC	N34°17'17.4"E
SE	0.036 FT/FT

TRANS. LENGTH 118'
DESIGN SPEED 40 MPH

LEGEND	
	PERM. SLOPE ESMT.

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COMMERCE
No. 130713
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

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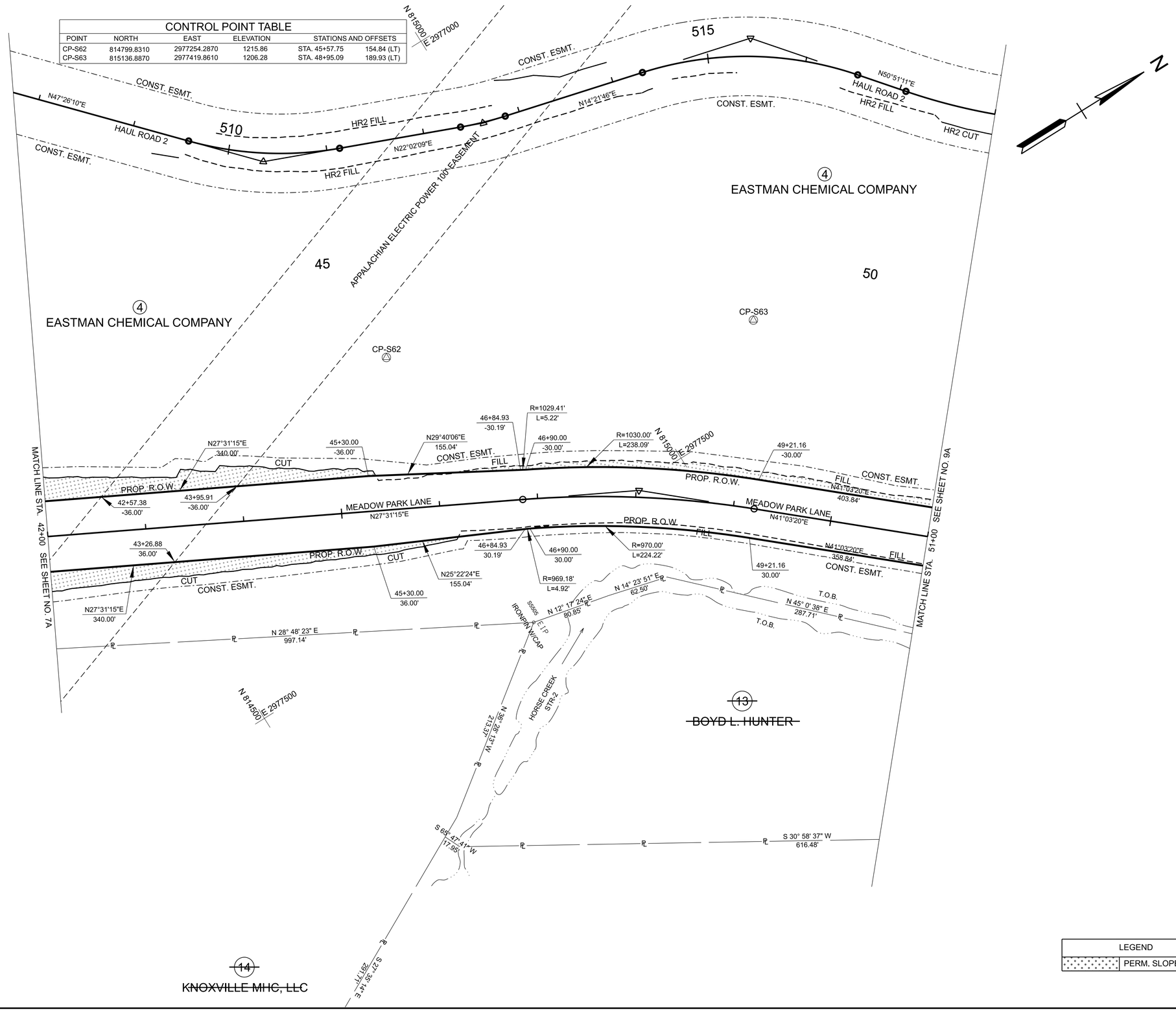
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	8A
FUNCT.	2025	82956-2594-04	8A
PIH	2026	82956-3594-04	8A
PS&E	2026	82956-3594-04	8A

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S62	814799.8310	2977254.2870	1215.86	STA. 45+57.75	154.84 (LT)
CP-S63	815136.8870	2977419.8610	1206.28	STA. 48+95.09	189.93 (LT)



LEGEND

PERM. SLOPE ESMT.

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No. 130719
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 52+00 TO STA. 61+00
SCALE: 1" = 50'

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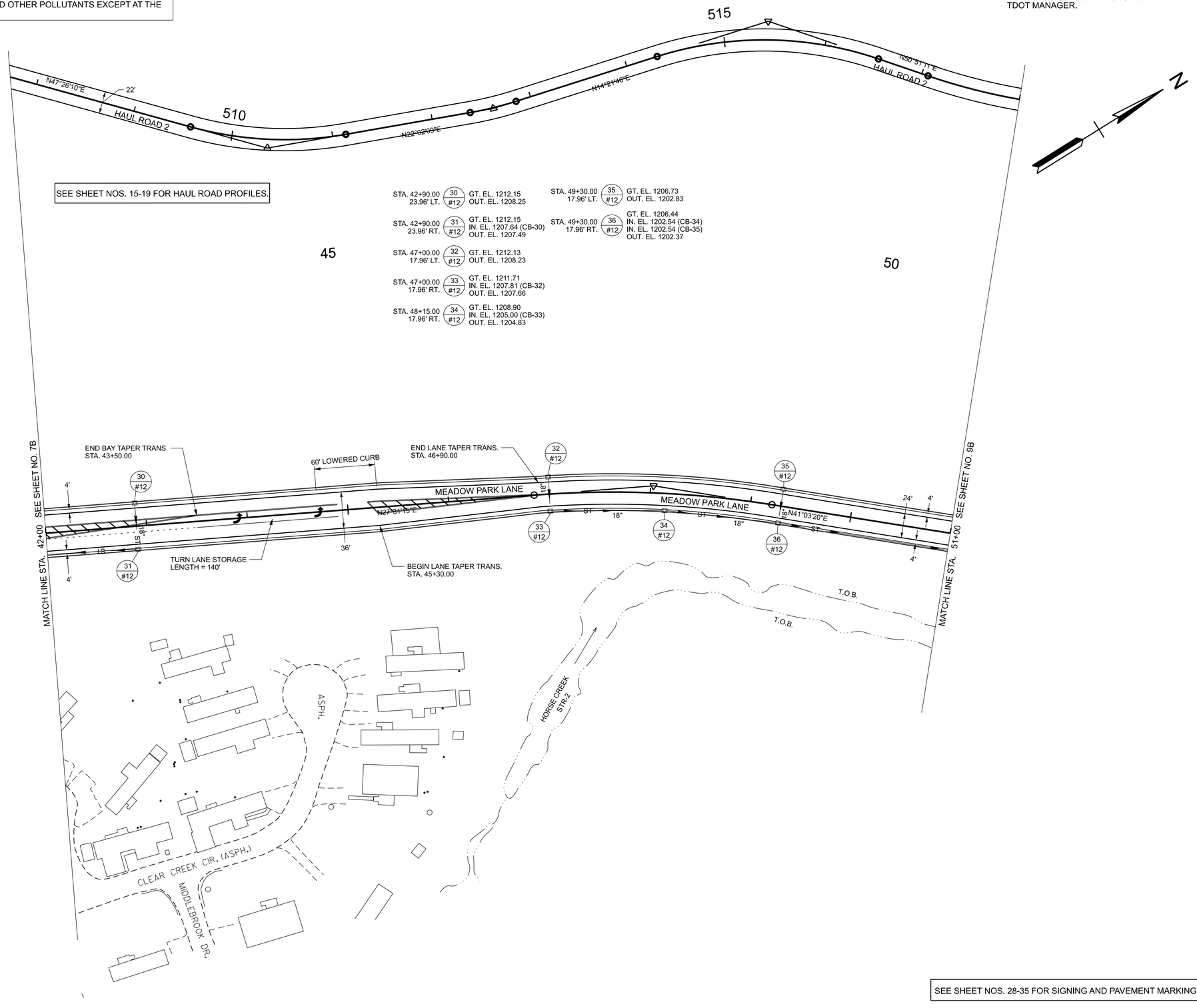
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF HORSE CREEK (STR-2) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	8B
FUNCT.	2025	82956-2594-04	8B
PIH	2026	82956-3594-04	8B
PS&E	2026	82956-3594-04	8B



SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

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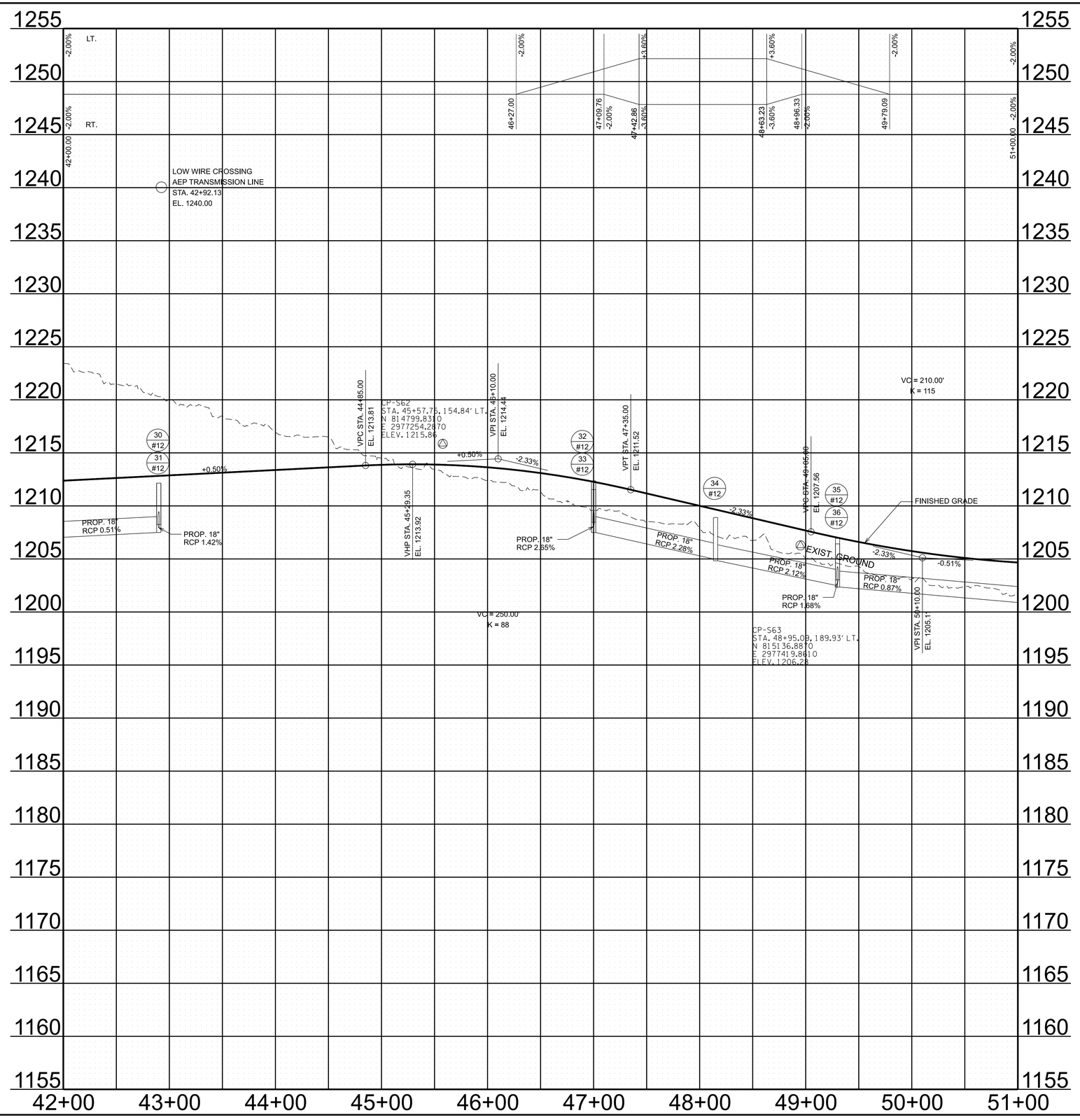
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	8C
FUNCT.	2025	82956-2594-04	8C
PIH	2026	82956-3594-04	8C
PS&E	2026	82956-3594-04	8C



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COMMERCE
No. 130718
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 42+00.00 TO STA. 51+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST THIS LIMIT HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	9
FUNCT.	2025	82956-2594-04	9
PIH	2026	82956-3594-04	9
PS&E	2026	82956-3594-04	9

HAUL ROAD 2
CURVE 11
PI 522+88.93
N 815899.0933
E 2977568.5147
Δ 59°54'19" RT.
D 190°59'09"
R 30.00'
L 31.37'
T 17.29'
LC 29.96'
BC N47°31'04.0"E

HAUL ROAD 2
CURVE 12
PI 523+84.49
N 815920.5195
E 2977664.9267
Δ 60°19'20" RT.
D 57°17'45"
R 100.00'
L 105.28'
T 58.11'
LC 100.49'
BC S72°22'06.3"E

HAUL ROAD 2
CURVE 13
PI 525+65.07
N 815778.6596
E 2977793.5904
Δ 17°34'52" LT.
D 57°17'45"
R 100.00'
L 30.68'
T 15.46'
LC 30.56'
BC S50°59'52.1"E

HAUL ROAD 2
CURVE 14
PI 527+38.58
N 815691.2275
E 2977943.7431
Δ 33°30'55" RT.
D 31°49'52"
R 180.00'
L 105.29'
T 54.20'
LC 103.80'
BC S43°01'50.2"E

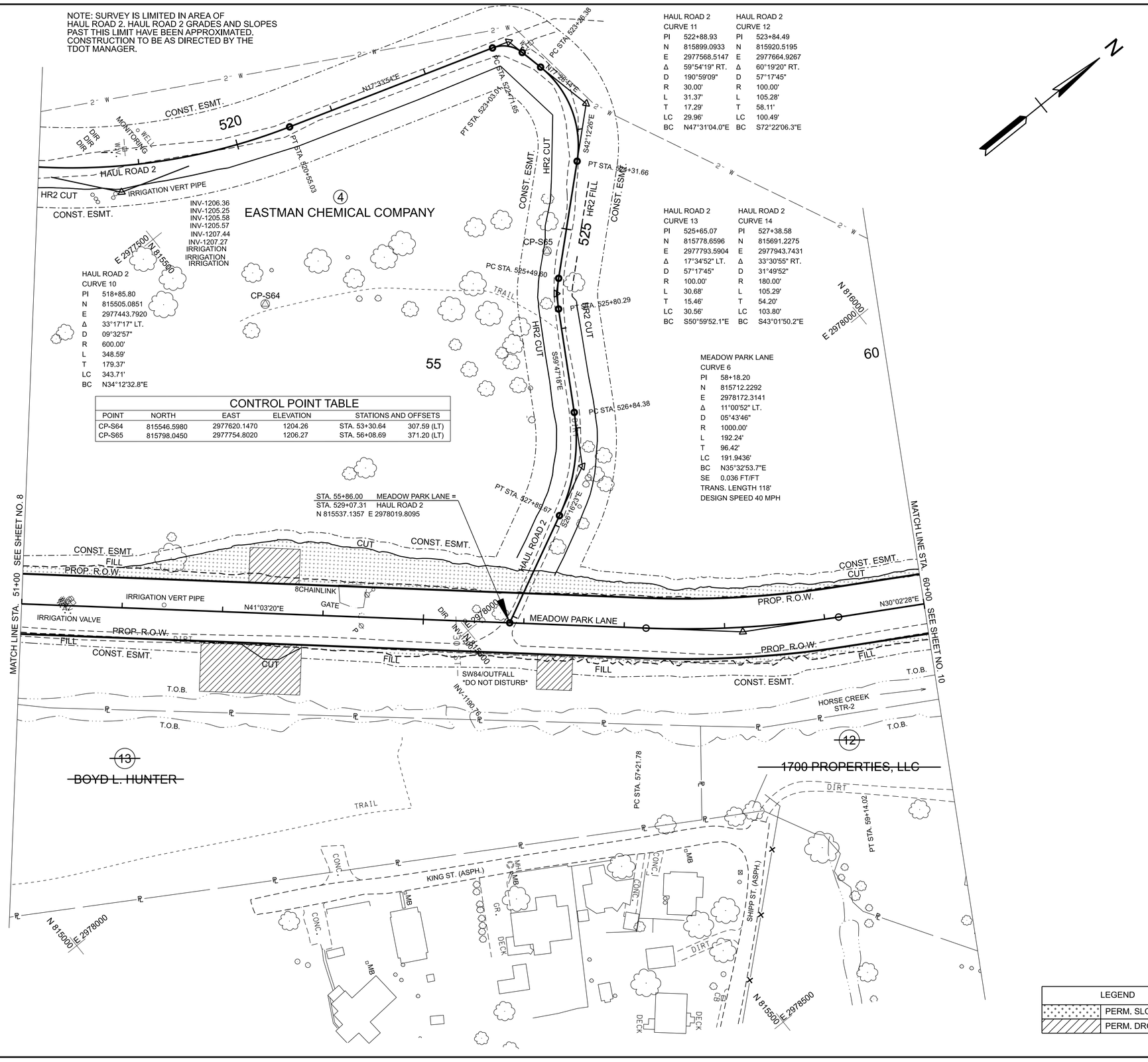
HAUL ROAD 2
CURVE 10
PI 518+85.80
N 815505.0851
E 2977443.7920
Δ 33°17'17" LT.
D 09°32'57"
R 600.00'
L 348.59'
T 179.37'
LC 343.71'
BC N34°12'32.8"E

MEADOW PARK LANE
CURVE 6
PI 58+18.20
N 815712.2292
E 2978172.3141
Δ 11°00'52" LT.
D 05°43'46"
R 1000.00'
L 192.24'
T 96.42'
LC 191.9436'
BC N35°32'53.7"E
SE 0.036 FT/FT
TRANS. LENGTH 118'
DESIGN SPEED 40 MPH

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S64	815546.5980	2977620.1470	1204.26	STA. 53+30.64	307.59 (LT)
CP-S65	815798.0450	2977754.8020	1206.27	STA. 56+08.69	371.20 (LT)

STA. 55+86.00 MEADOW PARK LANE =
STA. 529+07.31 HAUL ROAD 2
N 815537.1357 E 2978019.8095



LEGEND
PERM. SLOPE ESMT.
PERM. DRG. ESMT.

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AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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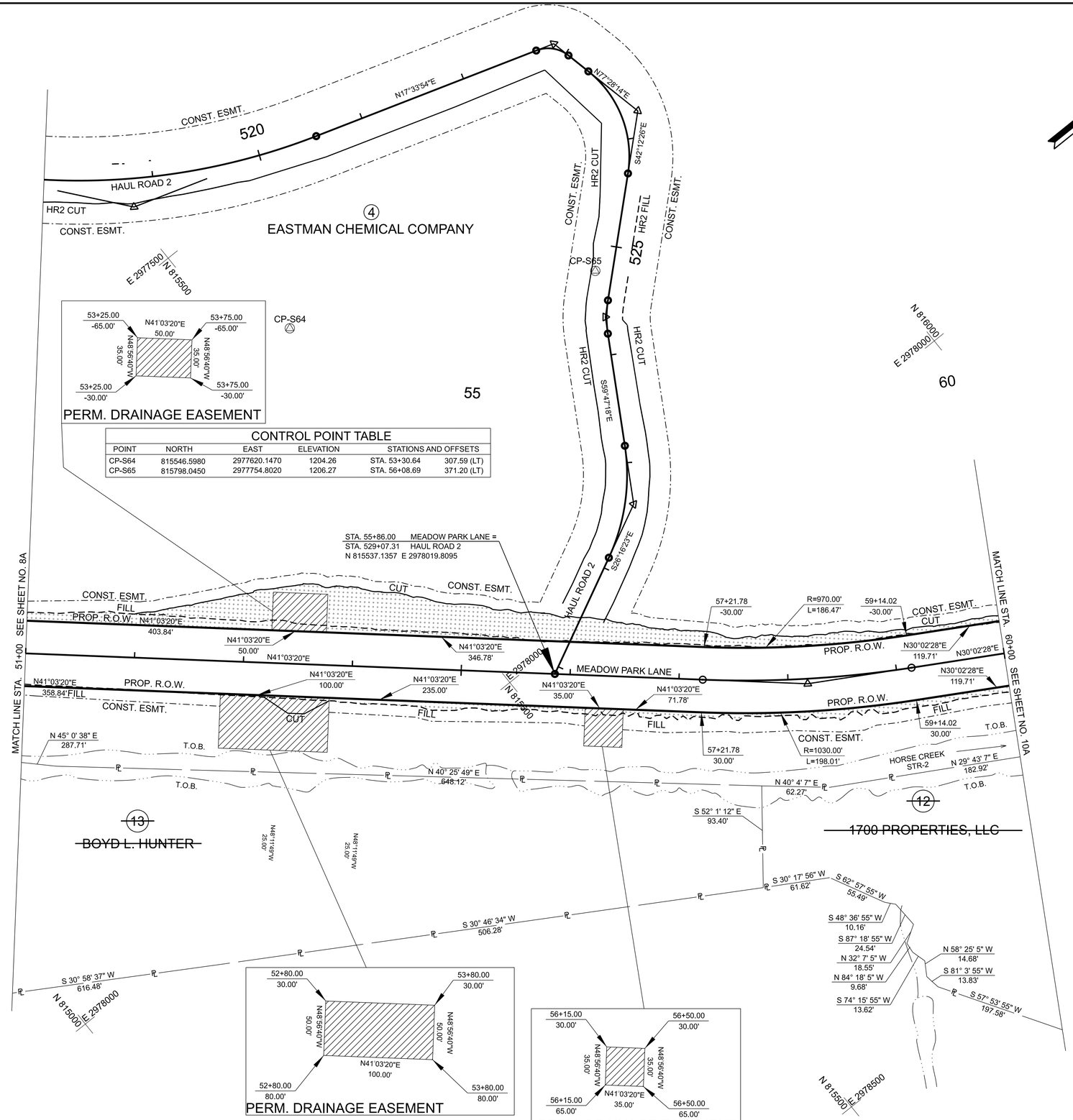
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	9A
FUNCT.	2025	82956-2594-04	9A
PIH	2026	82956-3594-04	9A
PS&E	2026	82956-3594-04	9A



LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

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RIGHT-OF-WAY DETAILS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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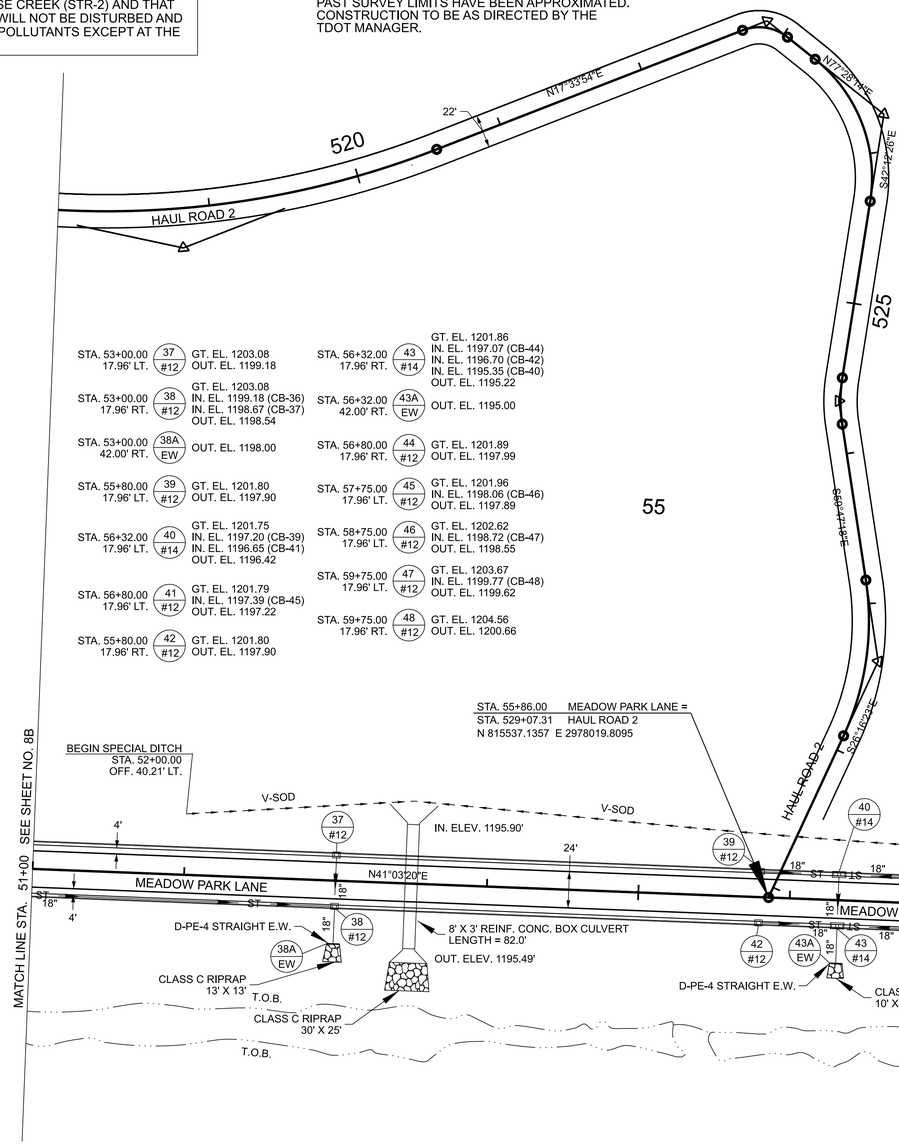
NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	9B
FUNCT.	2025	82956-2594-04	9B
PIH	2026	82956-3594-04	9B
PS&E	2026	82956-3594-04	9B



SEE SHEET NOS. 15-19 FOR HAUL ROAD PROFILES.

STA. 53+00.00 37 #12 17.96' LT. GT. EL. 1203.08 OUT. EL. 1199.18

STA. 53+00.00 38 #12 17.96' RT. GT. EL. 1203.08 IN. EL. 1199.18 (CB-36) IN. EL. 1198.67 (CB-37) OUT. EL. 1198.54

STA. 53+00.00 38A EW 42.00' RT. OUT. EL. 1198.00

STA. 55+80.00 39 #12 17.96' LT. GT. EL. 1201.80 OUT. EL. 1197.90

STA. 56+32.00 40 #14 17.96' LT. GT. EL. 1201.75 IN. EL. 1197.20 (CB-39) IN. EL. 1196.65 (CB-41) OUT. EL. 1196.42

STA. 56+80.00 41 #12 17.96' LT. GT. EL. 1201.79 IN. EL. 1197.39 (CB-45) OUT. EL. 1197.22

STA. 55+80.00 42 #12 17.96' RT. GT. EL. 1201.80 OUT. EL. 1197.90

STA. 56+32.00 43 #14 17.96' RT. GT. EL. 1201.86 IN. EL. 1197.07 (CB-44) IN. EL. 1196.70 (CB-42) IN. EL. 1195.35 (CB-40) OUT. EL. 1195.22

STA. 56+32.00 43A EW 42.00' RT. OUT. EL. 1195.00

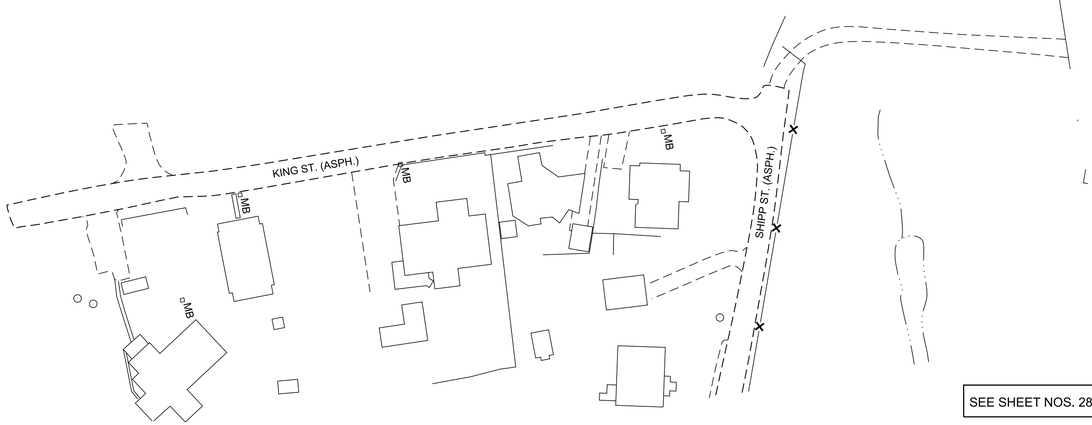
STA. 56+80.00 44 #12 17.96' RT. GT. EL. 1201.89 OUT. EL. 1197.99

STA. 57+75.00 45 #12 17.96' LT. GT. EL. 1201.96 IN. EL. 1198.06 (CB-46) OUT. EL. 1197.89

STA. 58+75.00 46 #12 17.96' LT. GT. EL. 1202.62 IN. EL. 1198.72 (CB-47) OUT. EL. 1198.55

STA. 59+75.00 47 #12 17.96' LT. GT. EL. 1203.67 IN. EL. 1199.77 (CB-48) OUT. EL. 1199.62

STA. 59+75.00 48 #12 17.96' RT. GT. EL. 1204.56 OUT. EL. 1200.66



SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

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5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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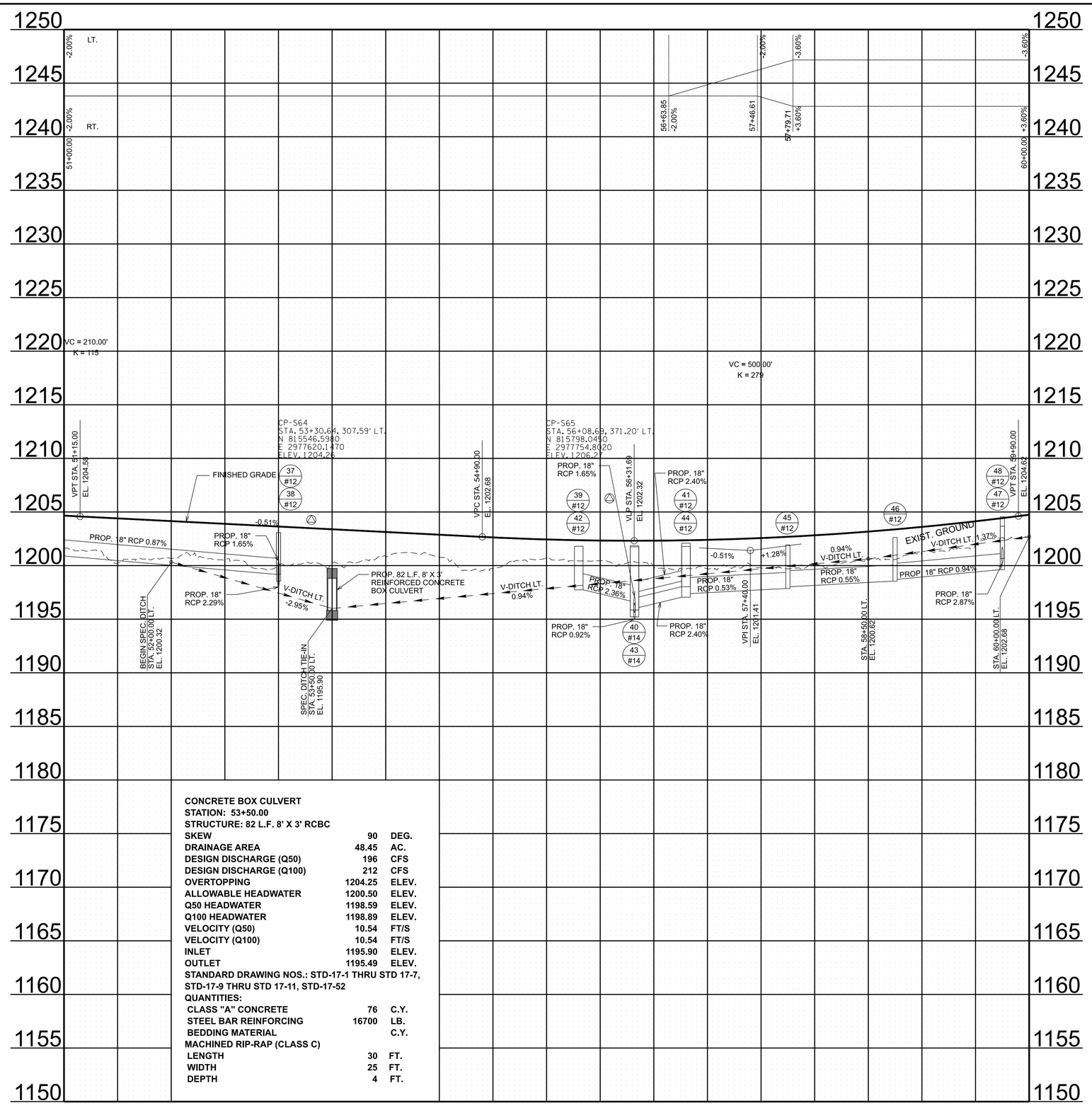
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	9C
FUNCT.	2025	82956-2594-04	9C
PIH	2026	82956-3594-04	9C
PS&E	2026	82956-3594-04	9C



CONCRETE BOX CULVERT
STATION: 53+50.00
STRUCTURE: 82 L.F. 8' X 3' RCBC

SKEW	90	DEG.
DRAINAGE AREA	48.45	AC.
DESIGN DISCHARGE (Q50)	196	CFS
DESIGN DISCHARGE (Q100)	212	CFS
OVERTOPPING	1204.25	ELEV.
ALLOWABLE HEADWATER	1200.50	ELEV.
Q50 HEADWATER	1198.59	ELEV.
Q100 HEADWATER	1198.89	ELEV.
VELOCITY (Q50)	10.54	FT/S
VELOCITY (Q100)	10.54	FT/S
INLET	1195.90	ELEV.
OUTLET	1195.49	ELEV.

STANDARD DRAWING NOS.: STD-17-1 THRU STD 17-7, STD-17-9 THRU STD 17-11, STD-17-52

QUANTITIES:

CLASS "A" CONCRETE	76	C.Y.
STEEL BAR REINFORCING	16700	LB.
BEDDING MATERIAL		C.Y.

MACHINED RIP-RAP (CLASS C)

LENGTH	30	FT.
WIDTH	25	FT.
DEPTH	4	FT.

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ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 51+00.00 TO STA. 60+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

5/21/2026 12:12:42 PM
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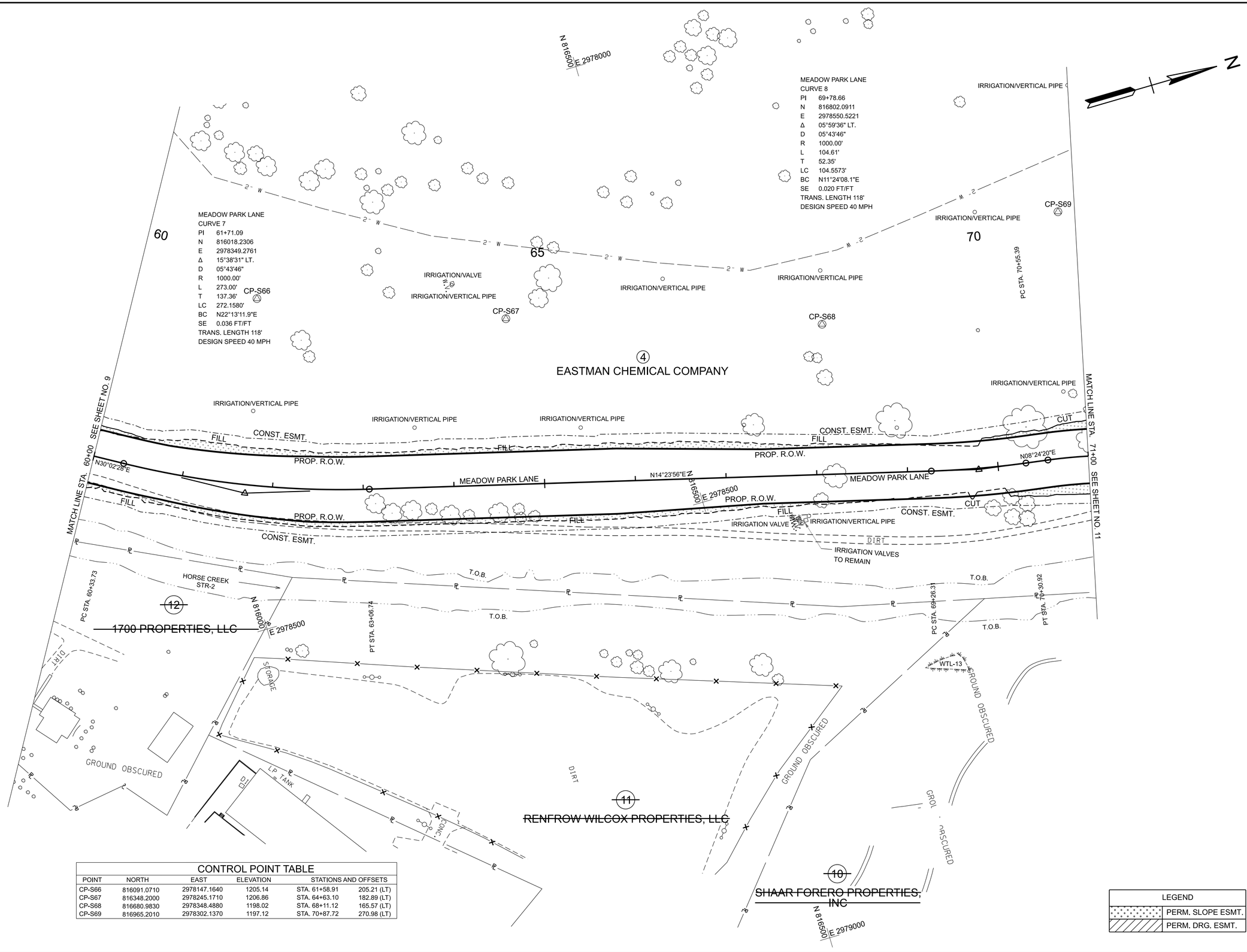
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	10
FUNCT.	2025	82956-2594-04	10
PIH	2026	82956-3594-04	10
PS&E	2026	82956-3594-04	10



CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S66	816091.0710	2978147.1640	1205.14	STA. 61+58.91	205.21 (LT)
CP-S67	816348.2000	2978245.1710	1206.86	STA. 64+63.10	182.89 (LT)
CP-S68	816680.9830	2978348.4880	1198.02	STA. 68+11.12	165.57 (LT)
CP-S69	816965.2010	2978302.1370	1197.12	STA. 70+87.72	270.98 (LT)

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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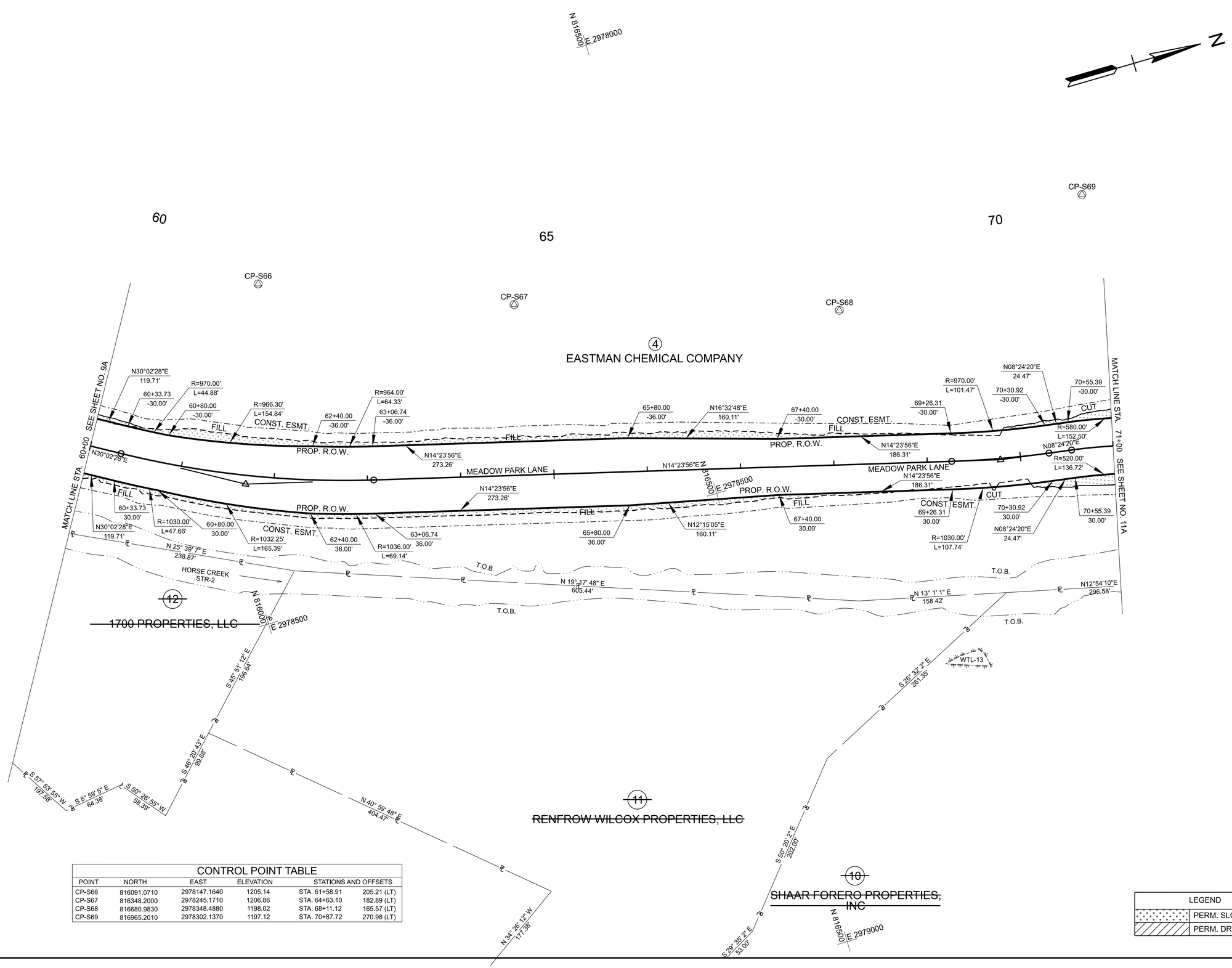
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	10A
FUNCT.	2025	82956-2594-04	10A
PIH	2026	82956-3594-04	10A
PS&E	2026	82956-3594-04	10A



CONTROL POINT TABLE					
POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S66	816091.0710	2978147.1640	1205.14	STA. 61+58.91	205.21 (LT)
CP-S67	816348.2000	2978245.1710	1206.86	STA. 64+63.10	182.89 (LT)
CP-S68	816680.9830	2978348.4880	1198.02	STA. 68+11.12	165.57 (LT)
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LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

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STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF HORSE CREEK (STR-2) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	10B
FUNCT.	2025	82956-2594-04	10B
PIH	2026	82956-3594-04	10B
PS&E	2026	82956-3594-04	10B

STA. 64+80.00 23.96' LT. (49 #12) GT. EL. 1203.74 OUT. EL. 1199.84

STA. 64+80.00 23.96' RT. (50 #12) GT. EL. 1203.74 IN. EL. 1198.92 (CB-49) OUT. EL. 1198.77

STA. 67+45.00 17.96' LT. (51 #12) GT. EL. 1198.68 OUT. EL. 1194.78

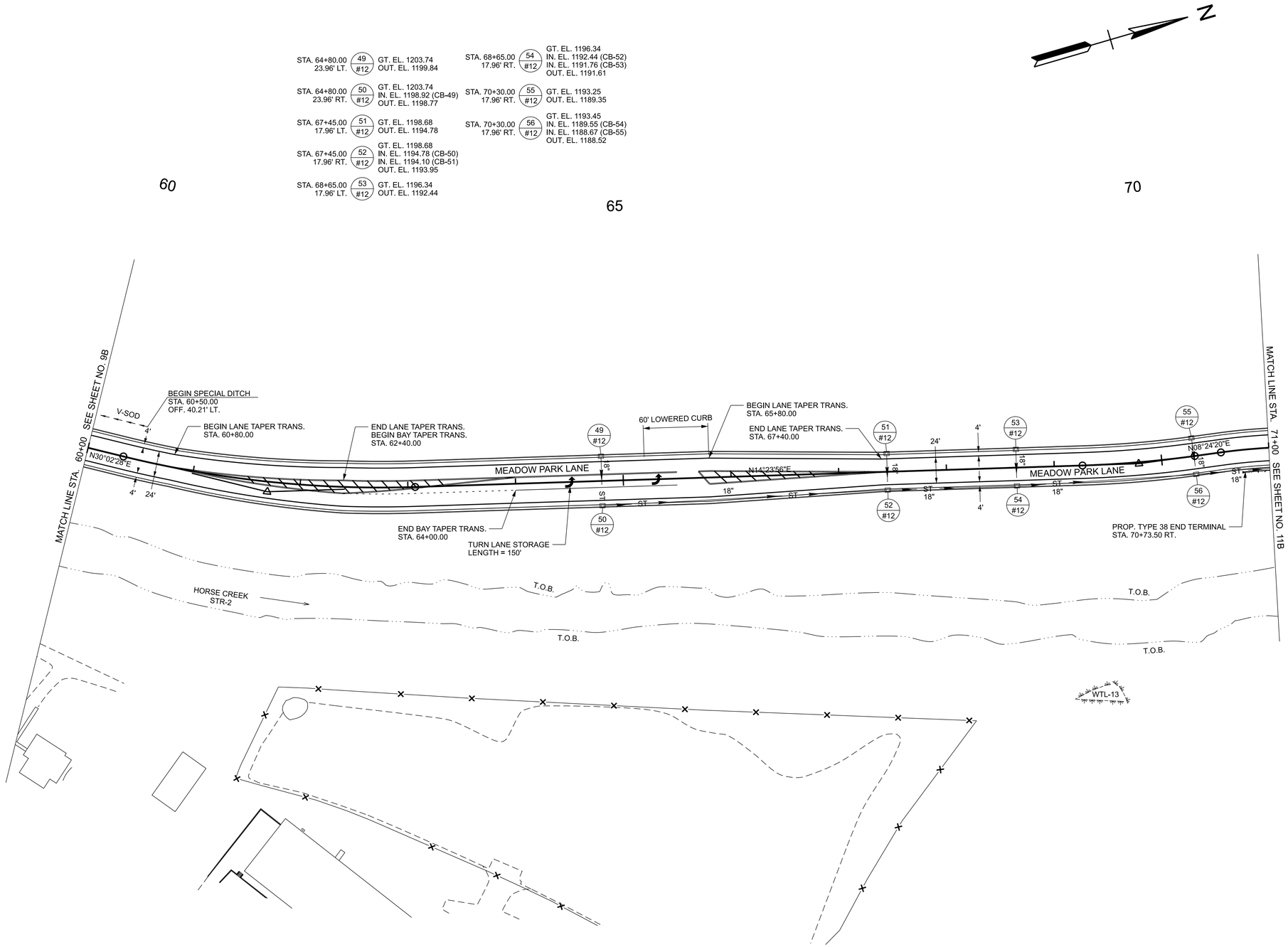
STA. 67+45.00 17.96' RT. (52 #12) GT. EL. 1198.68 IN. EL. 1194.78 (CB-50) IN. EL. 1194.10 (CB-51) OUT. EL. 1193.95

STA. 68+65.00 17.96' LT. (53 #12) GT. EL. 1196.34 OUT. EL. 1192.44

STA. 68+65.00 17.96' RT. (54 #12) GT. EL. 1196.34 IN. EL. 1192.44 (CB-52) IN. EL. 1191.76 (CB-53) OUT. EL. 1191.61

STA. 70+30.00 17.96' RT. (55 #12) GT. EL. 1193.25 OUT. EL. 1189.35

STA. 70+30.00 17.96' RT. (56 #12) GT. EL. 1193.45 IN. EL. 1189.55 (CB-54) IN. EL. 1188.67 (CB-55) OUT. EL. 1188.52



SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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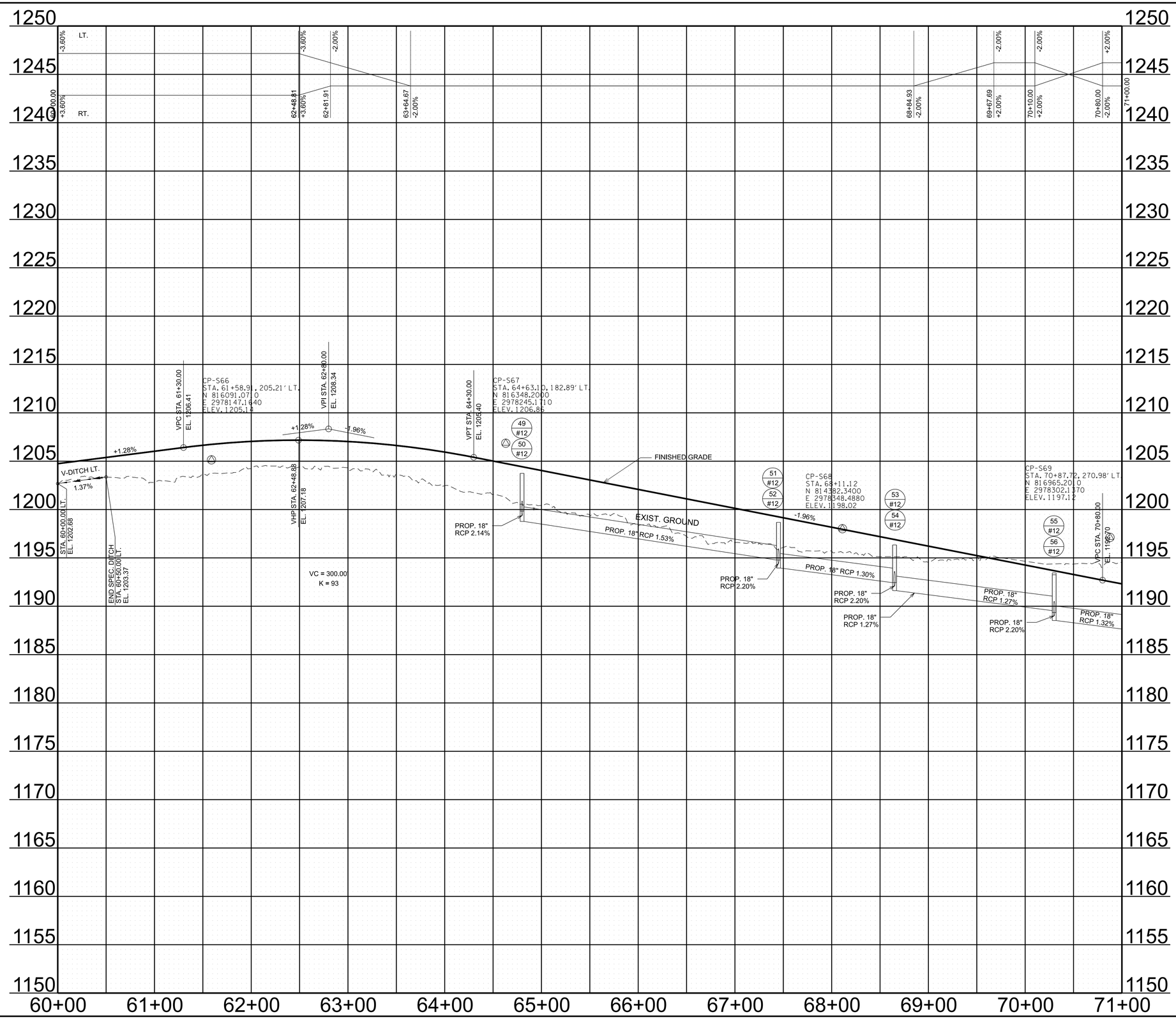
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	10C
FUNCT.	2025	82956-2594-04	10C
PIH	2026	82956-3594-04	10C
PS&E	2026	82956-3594-04	10C



SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130711
STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 60+00.00 TO STA. 69+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	11
FUNCT.	2025	82956-2594-04	11
PIH	2026	82956-3594-04	11
PS&E	2026	82956-3594-04	11

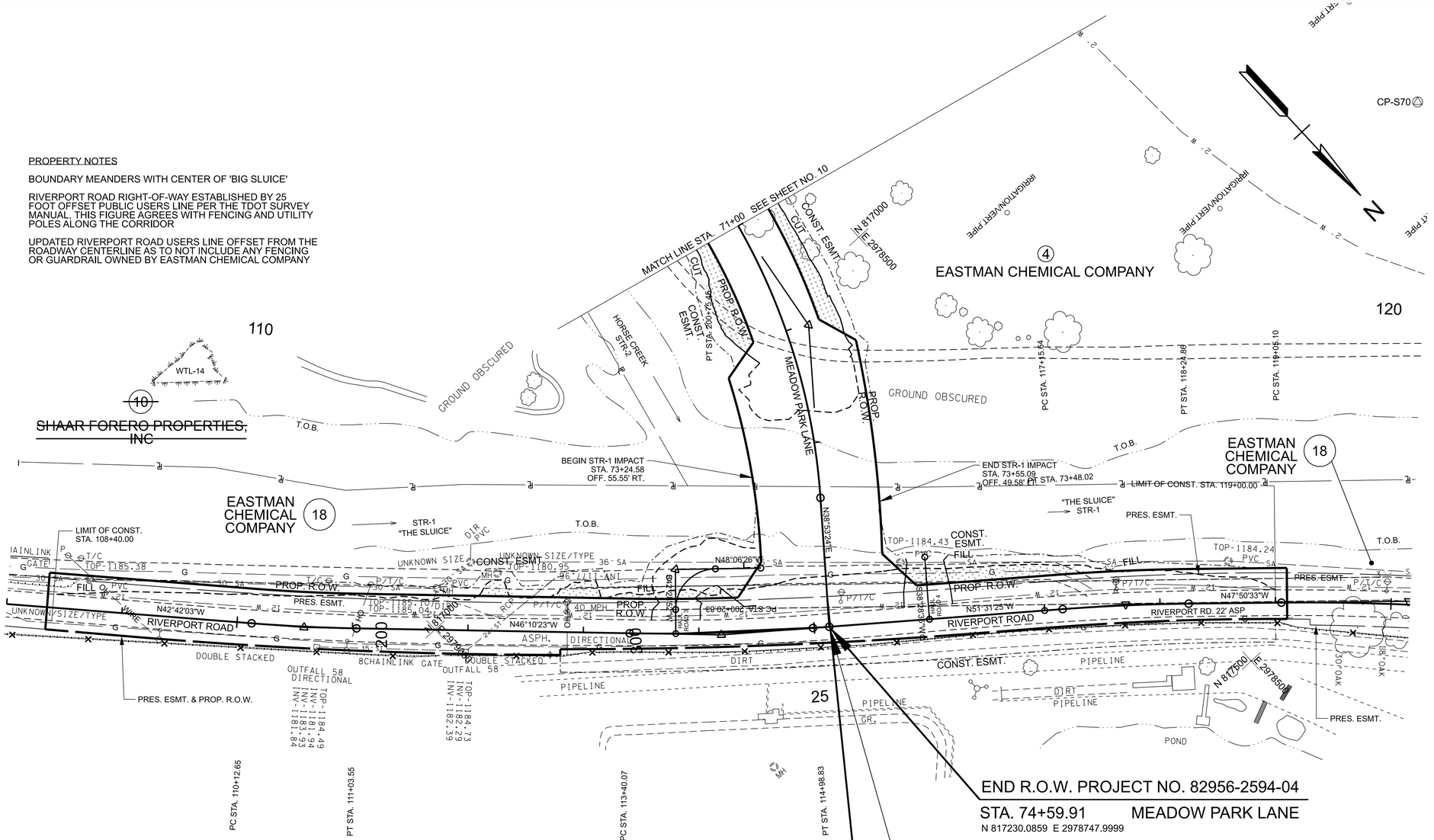
REV. 07-07-26:
REVISED FENCING NOTE.

PROPERTY NOTES

BOUNDARY MEANDERS WITH CENTER OF 'BIG SLUICE'

RIVERPORT ROAD RIGHT-OF-WAY ESTABLISHED BY 25 FOOT OFFSET PUBLIC USERS LINE PER THE TDOT SURVEY MANUAL. THIS FIGURE AGREES WITH FENCING AND UTILITY POLES ALONG THE CORRIDOR

UPDATED RIVERPORT ROAD USERS LINE OFFSET FROM THE ROADWAY CENTERLINE AS TO NOT INCLUDE ANY FENCING OR GUARDRAIL OWNED BY EASTMAN CHEMICAL COMPANY



END R.O.W. PROJECT NO. 82956-2594-04

STA. 74+59.91 MEADOW PARK LANE

N 817230.0859 E 2978747.9999

STA. 74+59.91 MEADOW PARK LANE =
STA. 115+13.00 RIVERPORT ROAD
N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04

STA. 74+35.91 MEADOW PARK LANE

N 817211.4044 E 2978732.9311

18

EASTMAN CHEMICAL COMPANY

NOTE: A CONTRACTOR APPROVED BY EASTMAN CHEMICAL IS TO REMOVE THE EXISTING FENCE IN THE AREA OF PROPOSED RETAINING WALL, REINSTALL, AND MAINTAIN DURING CONSTRUCTION OF WALL. COST OF FENCE AND ALL NECESSARY COORDINATION WITH EASTMAN TO BE INCLUDED IN 707-01 ITEM NUMBERS.
CONTACT DANNY DUNCAN FOR INFORMATION: DCDUNCAN@EASTMAN.COM.

N 817000 E 2979500

N 817500 E 2979000

HAUL ROAD 3		MEADOW PARK LANE		RIVERPORT RD		RIVERPORT RD		RIVERPORT RD		RIVERPORT RD	
CURVE 1		CURVE 9		CURVE 3		CURVE 4		CURVE 5		CURVE 6	
PI	200+55.47	PI	72+05.25	PI	20+58.11	PI	24+19.51	PI	27+70.27	PI	30+15.21
N	817103.2361	N	817026.3441	N	816921.5654	N	817171.8460	N	817390.1600	N	817554.5816
E	2978811.9980	E	2978583.6590	E	2979082.0249	E	2978821.2796	E	2978546.5881	E	2978364.9852
Δ	89°24'42" RT.	Δ	30°29'04" RT.	Δ	03°28'20" LT.	Δ	05°21'02" LT.	Δ	03°40'52" RT.	Δ	06°18'09" RT.
D	163°42'08"	D	10°25'03"	D	03°49'11"	D	03°22'13"	D	03°22'13"	D	02°51'53"
R	35.00'	R	550.00'	R	1500.00'	R	1700.00'	R	1700.00'	R	2000.00'
L	54.62'	L	292.63'	L	90.90'	L	158.76'	L	109.22'	L	219.99'
T	34.64'	T	149.87'	L	45.46'	T	79.44'	T	54.63'	T	110.11'
LC	49.24'	LC	289.1915'	LC	90.89'	LC	158.70'	LC	109.20'	LC	219.88'
BC	S87°11'13.1"W	BC	N23°38'52.2"E	BC	N44°26'13.3"W	BC	N48°50'54.3"W	BC	N49°40'59.4"W	BC	N44°41'29.1"W
		SE	0.020 FT/FT	SE	N.C.	SE	0.020 FT/FT	SE	0.020 FT/FT	SE	MATCH EXISTING
		TRANS. LENGTH 100'		DESIGN SPEED 40 MPH		TRANS. LENGTH 55'		TRANS. LENGTH 55'		DESIGN SPEED 40 MPH	
		DESIGN SPEED 40 MPH				DESIGN SPEED 40 MPH		DESIGN SPEED 40 MPH			

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S70	817242.7490	2978065.6050	1196.51	STA. 71+97.05	581.45 (LT)

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130718 STATE OF TENNESSEE

7/7/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 71+00.00 TO STA. 74+35.91
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	11A
FUNCT.	2025	82956-2594-04	11A
PIH	2026	82956-3594-04	11A
PS&E	2026	82956-3594-04	11A

PROPERTY NOTES

BOUNDARY MEANDERS WITH CENTER OF 'BIG SLUICE'

RIVERPORT ROAD RIGHT-OF-WAY ESTABLISHED BY 25 FOOT OFFSET PUBLIC USERS LINE PER THE TDOT SURVEY MANUAL. THIS FIGURE AGREES WITH FENCING AND UTILITY POLES ALONG THE CORRIDOR

UPDATED RIVERPORT ROAD USERS LINE OFFSET FROM THE ROADWAY CENTERLINE AS TO NOT INCLUDE ANY FENCING OR GUARDRAIL OWNED BY EASTMAN CHEMICAL COMPANY

CP-S70

N

110

WTL-14

10

~~SHAAR FORERO PROPERTIES, INC~~

T.O.B.

N45°32'33"W 229.74'

N37°22'08"W 114.99'

N50°03'28"W 101.76'

N46°50'46"W 194.43'

EASTMAN CHEMICAL COMPANY 18

STR-1 "THE SLUICE"

N47°17'57"E 4.24'

108+35.00 -30.00'

N42°42'03"W 177.65'

N42°23'02"W 80.12'

N42°23'02"W 78.86'

109+99.29 -25.35'

110+12.65 -30.00'

ENBRIDGE 406C-566

PROP. R.O.W.

111+03.55 -30.00'

CONST. ESMT.

113+40.07 -30.00'

108+35.00 -25.76'

FILL

N47°17'57"E 25.76'

N42°42'03"W

R=1470.00' L=89.08'

PRES. ESMT.

N46°10'23"W 236.53'

R=4475.00' L=599.83'

PROP. R.O.W.

114+35.00 -30.00'

115+13.19 -26.22'

RIVERPORT ROAD

N47°17'57"E 19.24'

108+35.00 19.24'

N42°23'02"W 74.04'

109+09.04 19.62'

N42°23'02"W 75.88'

PRES. ESMT. & PROP. R.O.W.

200

N 817000 E 2979000

112+80.24 14.84'

N46°10'23"W

R=4520.00' L=372.45'

N42°53'42"E 5.00'

112+80.32 19.87'

300

R=4515.00' L=355.45'

LIMIT OF CONST. STA. 108+40.00

PRES. ESMT. & PROP. R.O.W.

25

MATCH LINE STA. 71+00 SEE SHEET NO. 10A

CUT

CONST. ESMT.

PROP. R.O.W.

HORSE CREEK STR-2

N12°54'10"E 296.58'

N77°20'47"E 37.77'

72+25.00 60.00'

R=520.00' L=136.72'

CONST. ESMT.

CUT

N 817000 E 2978500

R=580.00' L=152.50'

72+00.00 -30.00'

N18°05'31"W 36.74'

72+25.00 -55.00'

MEADOW PARK LANE

PROP. R.O.W.

72+00.00 30.00'

R=1000.00' L=128.83'

73+42.62 -50.63'

R=618.00' L=96.05'

BEGIN STR-1 IMPACT STA. 73+24.58 OFF. 55.55' RT.

N46°50'46"W 56.98'

N46°50'46"W 50.83'

N46°50'46"W 29.43'

END STR-1 IMPACT STA. 73+55.09 OFF. 49.58' LT.

N75°54'01"E 36.68'

N46°50'46"W 57.20'

73+32.50 56.71'

R=1000.00' L=57.89'

74+00.00 -50.00'

T.O.B.

R=1670.00' L=93.25'

74+00.00 55.00'

R= 618.00' L=65.95'

N38°53'24"E

115+91.00 -30.00'

N04°32'28"W 40.41'

CONST. ESMT. FILL

117+15.64 -30.00'

N48°06'26"W

STA. 73+24.58 PROP. R.O.W. LINE

N38°38'28"E 236.53'

PROP. R.O.W.

N51°36'57"W 70.60'

N51°31'25"W 124.64'

116+34.46 15.23'

N51°36'57"W 70.60'

117+05.05 14.37'

CONST. ESMT.

RIVERPORT ROAD

N51°31'25"W

R=4475.00' L=121.22'

N 817500 E 2979000

PRES. ESMT. & PROP. R.O.W.

POND

T.O.B.

EASTMAN CHEMICAL COMPANY 18

N48°05'12"W 635.21'

LIMIT OF CONST. STA. 119+00.00

119+05.10 -30.00'

"THE SLUICE" STR-1

PRES. ESMT. 118+24.86 -30.00'

R=2030.00' L=4.97'

119+10.00 -30.00'

N42°17'52"E 4.16'

T.O.B.

N47°50'33"W 80.24'

119+10.00 -25.79'

R=2525.00' L=466.39'

PRES. ESMT.

N42°17'52"E 25.79'

R=1730.00' DEP EASEMENT L=111.15' B188C-P150

N47°50'33"W 70.60'

119+10.00 14.21'

N43°32'38"E 5.00'

R=2480.00' L=234.75'

R=2485.00' L=203.97'

R=2485.00' L=19.81'

119+29.96 14.46'

N42°17'52"E 14.16'

119+29.90 19.46'

N 817500 E 2978500

120

EASTMAN CHEMICAL COMPANY

4

END R.O.W. PROJECT NO. 82956-2594-04

STA. 74+59.91 MEADOW PARK LANE

N 817230.0859 E 2978747.9999

STA. 74+59.91 MEADOW PARK LANE =

STA. 115+13.00 RIVERPORT ROAD

N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04

STA. 74+35.91 MEADOW PARK LANE

N 817211.4044 E 2978732.9311

18

EASTMAN CHEMICAL COMPANY

N 817000 E 2979500

N 817500 E 2979000

CONTROL POINT TABLE

POINT	NORTH	EAST	ELEVATION	STATIONS AND OFFSETS	
CP-S70	817242.7490	2978065.6050	1196.51	STA. 71+97.05	581.45 (LT)

LEGEND	
	PERM. SLOPE ESMT.
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130718 STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 71+00.00 TO STA. 74+35.91
SCALE: 1" = 50'

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THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF HORSE CREEK (STR-2), STR-1, OR WTL-14 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	11B
FUNCT.	2025	82956-2594-04	11B
PIH	2026	82956-3594-04	11B
PS&E	2026	82956-3594-04	11B

REV. 07-07-26:
REVISED FENCING NOTE.

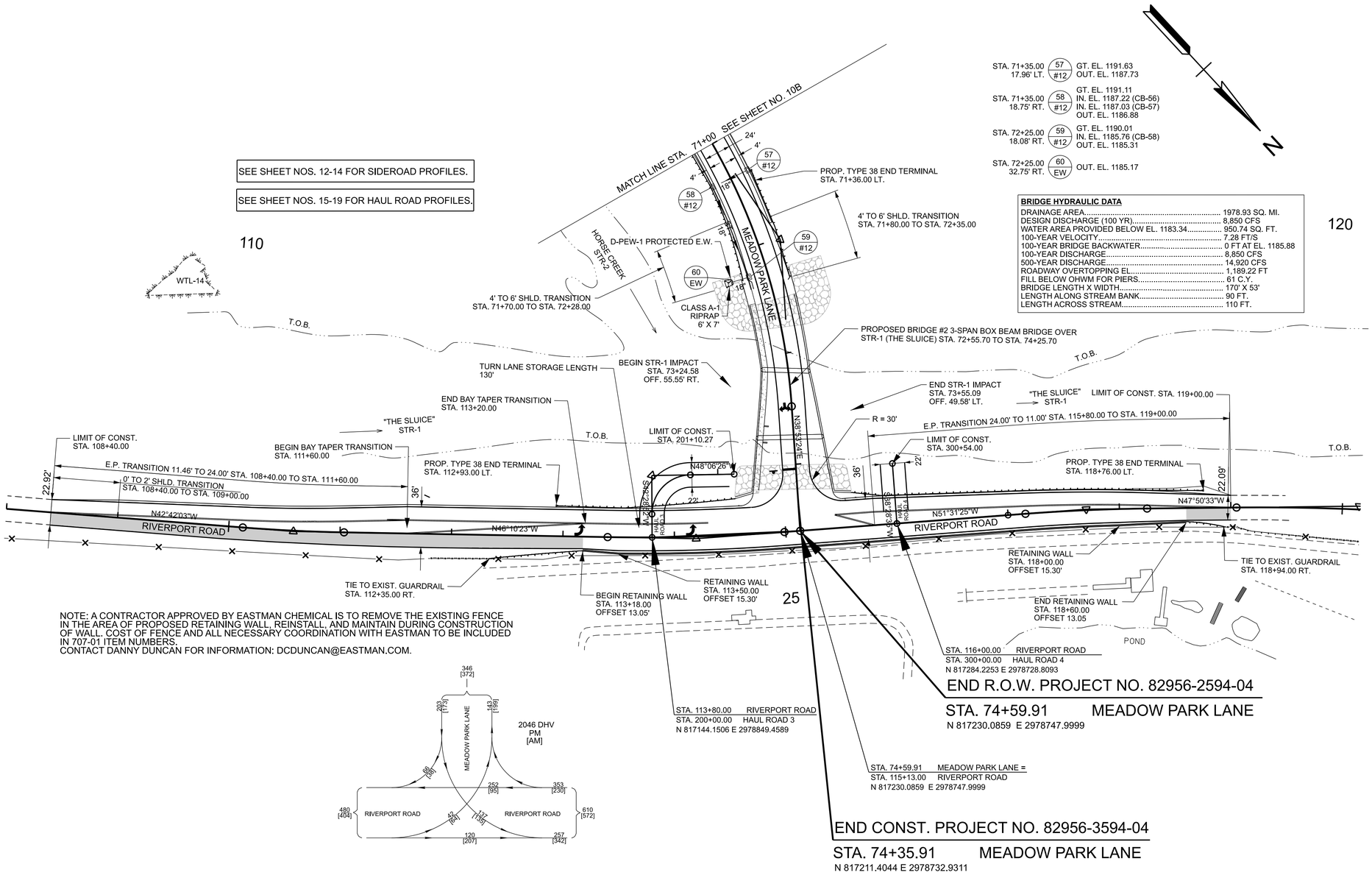
SEE SHEET NOS. 12-14 FOR SIDEROAD PROFILES.

SEE SHEET NOS. 15-19 FOR HAUL ROAD PROFILES.

110

120

25



NOTE: A CONTRACTOR APPROVED BY EASTMAN CHEMICAL IS TO REMOVE THE EXISTING FENCE IN THE AREA OF PROPOSED RETAINING WALL, REINSTALL, AND MAINTAIN DURING CONSTRUCTION OF WALL. COST OF FENCE AND ALL NECESSARY COORDINATION WITH EASTMAN TO BE INCLUDED IN 707-01 ITEM NUMBERS.
CONTACT DANNY DUNCAN FOR INFORMATION: DCDUNCAN@EASTMAN.COM.

LEGEND	
	PROP. RESURFACING

SEE SHEET NOS. 28-35 FOR SIGNING AND PAVEMENT MARKING PLANS.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 130718
STATE OF TENNESSEE
7/7/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 71+00.00 TO STA. 74+35.91
SCALE: 1" = 50'

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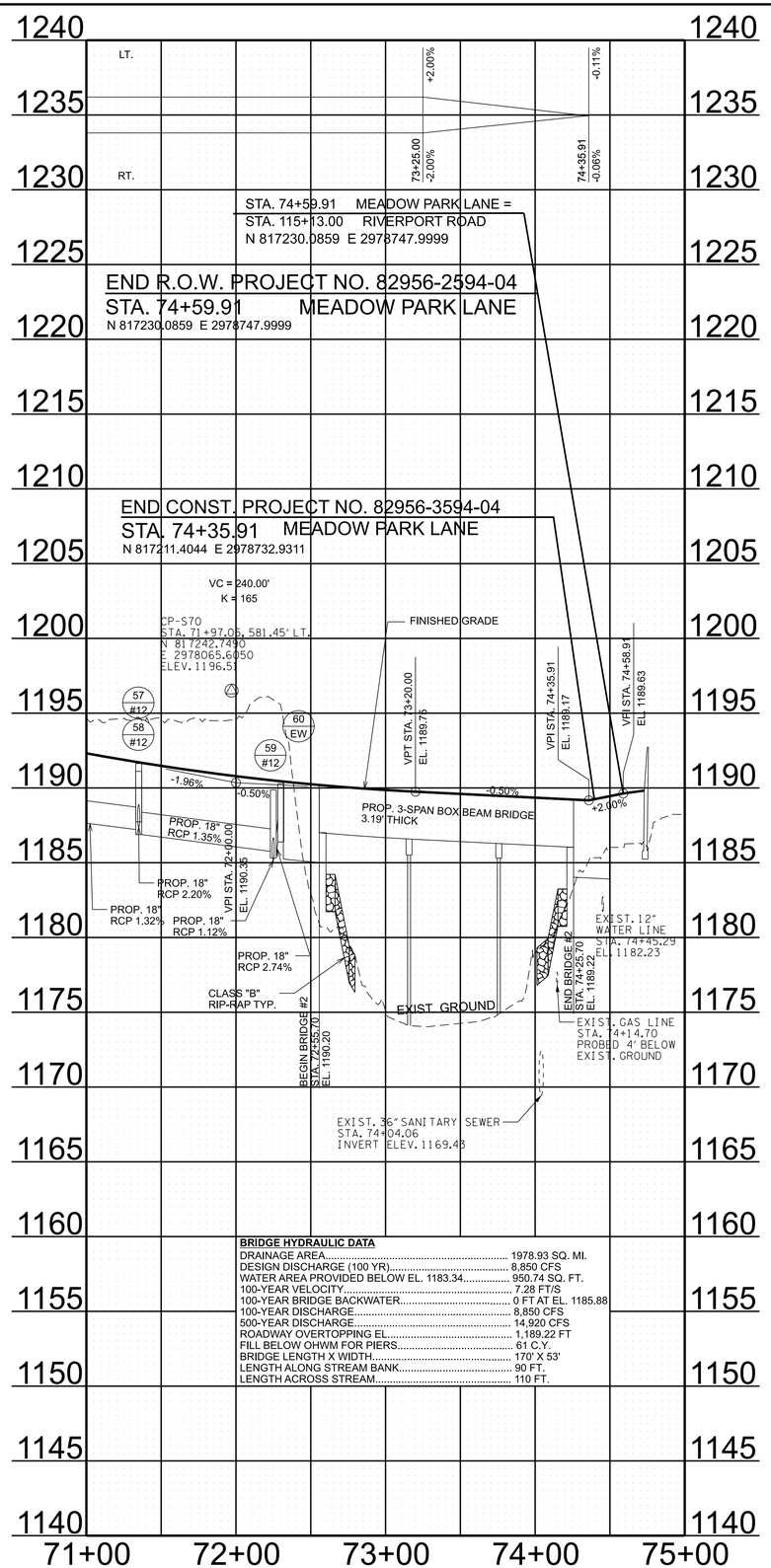

BRIDGE HYDRAULIC DATA

DRAINAGE AREA	1978.93 SQ. MI.
DESIGN DISCHARGE (100 YR)	8,850 CFS
WATER AREA PROVIDED BELOW EL. 1183.34	950.74 SQ. FT.
100-YEAR VELOCITY	7.28 FT/S
100-YEAR BRIDGE BACKWATER	0 FT AT EL. 1185.88
100-YEAR DISCHARGE	8,850 CFS
500-YEAR DISCHARGE	14,920 CFS
ROADWAY OVERTOPPING EL.	1,189.22 FT
FILL BELOW OHWM FOR PIERS	61 C.Y.
BRIDGE LENGTH X WIDTH	170' X 53'
LENGTH ALONG STREAM BANK	90 FT.
LENGTH ACROSS STREAM	110 FT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	11C
FUNCT.	2025	82956-2594-04	11C
PIH	2026	82956-3594-04	11C
PS&E	2026	82956-3594-04	11C

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COMMERCE
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STATE OF TENNESSEE

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PROPOSED PROFILE

STA. 69+00.00 TO STA. 75+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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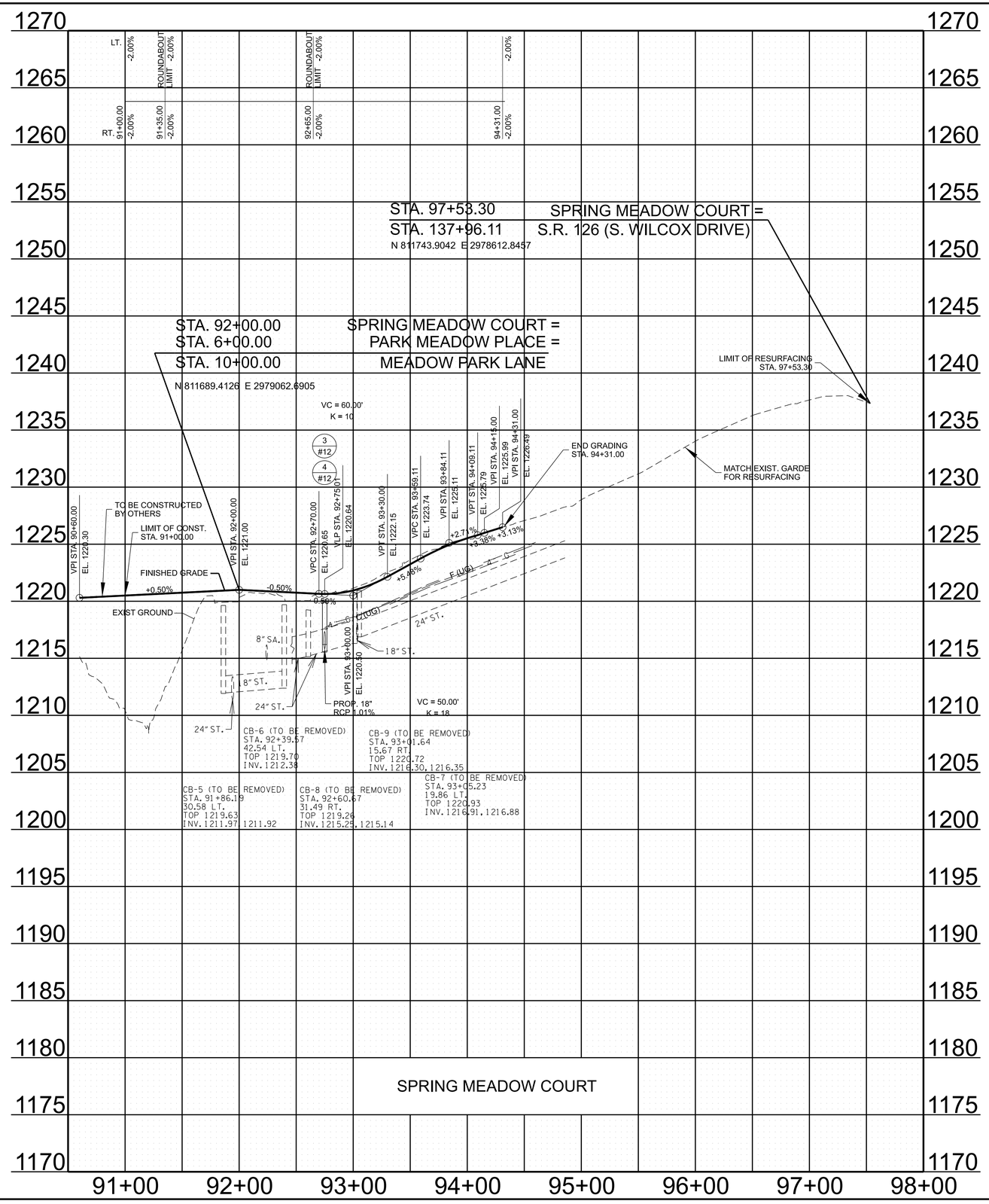
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	12
FUNCT.	2025	82956-2594-04	12
PIH	2026	82956-3594-04	12
PS&E	2026	82956-3594-04	12



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SIDE ROAD PROFILES

SPRING MEADOW CT.
STA. 90+85.00 TO STA. 97+53.30
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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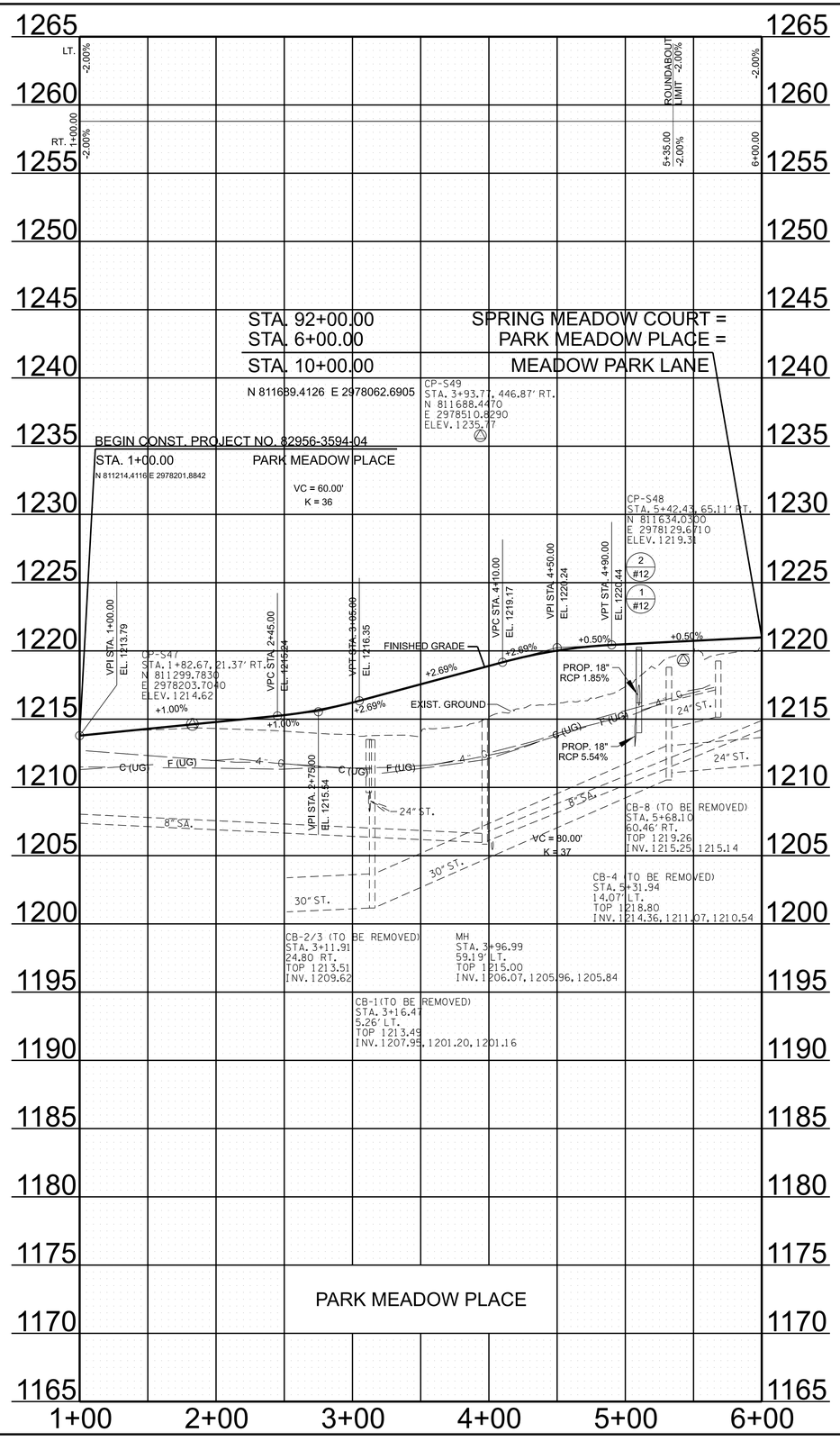
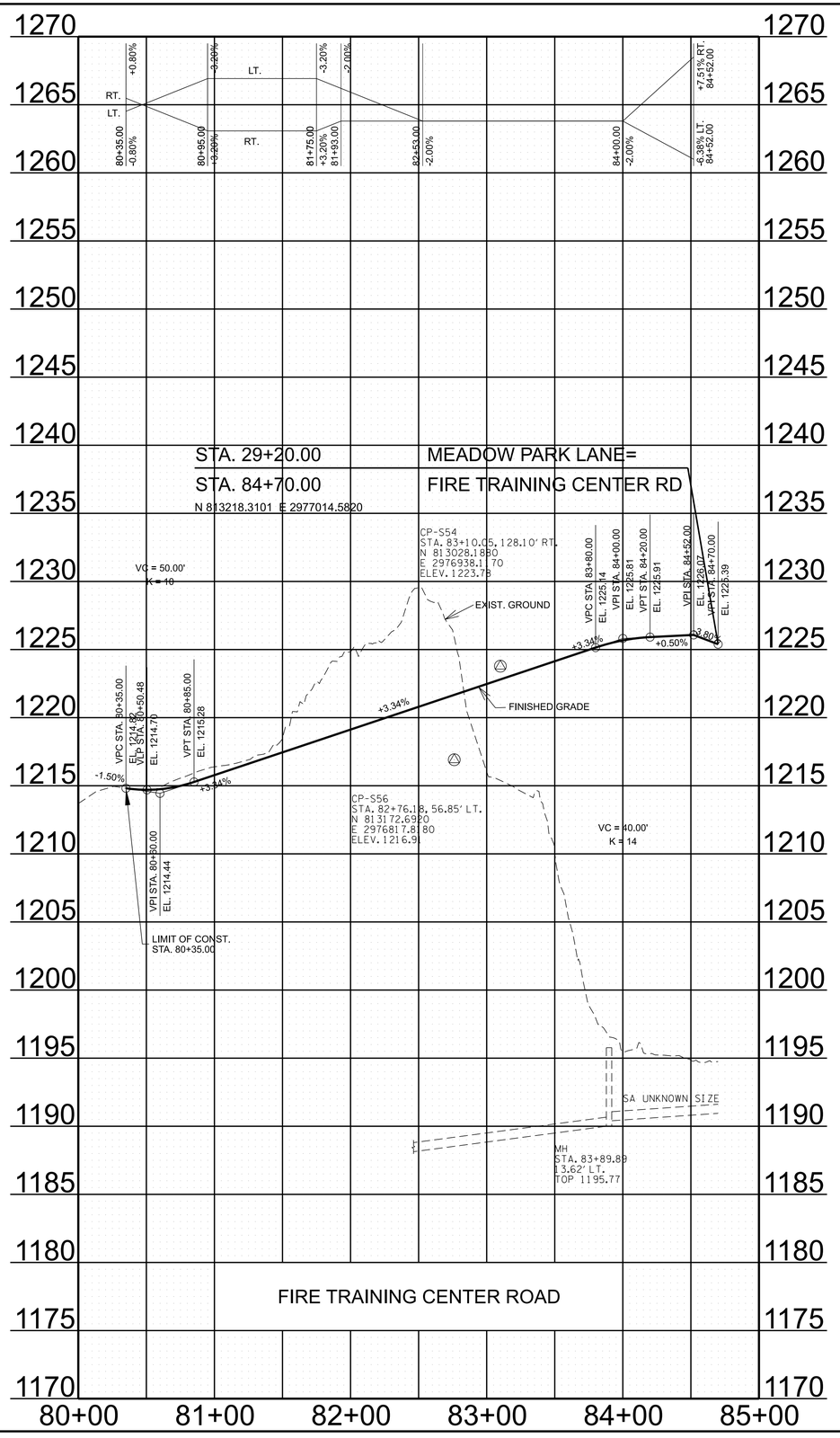
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	13
FUNCT.	2025	82956-2594-04	13
PIH	2026	82956-3594-04	13
PS&E	2026	82956-3594-04	13





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SIDE ROAD PROFILES

PARK MEADOW PL. STA. 1+00.00 TO STA. 6+00.00
FIRE TRAINING CENTER ROAD
STA. 80+35.00 TO STA. 84+70.00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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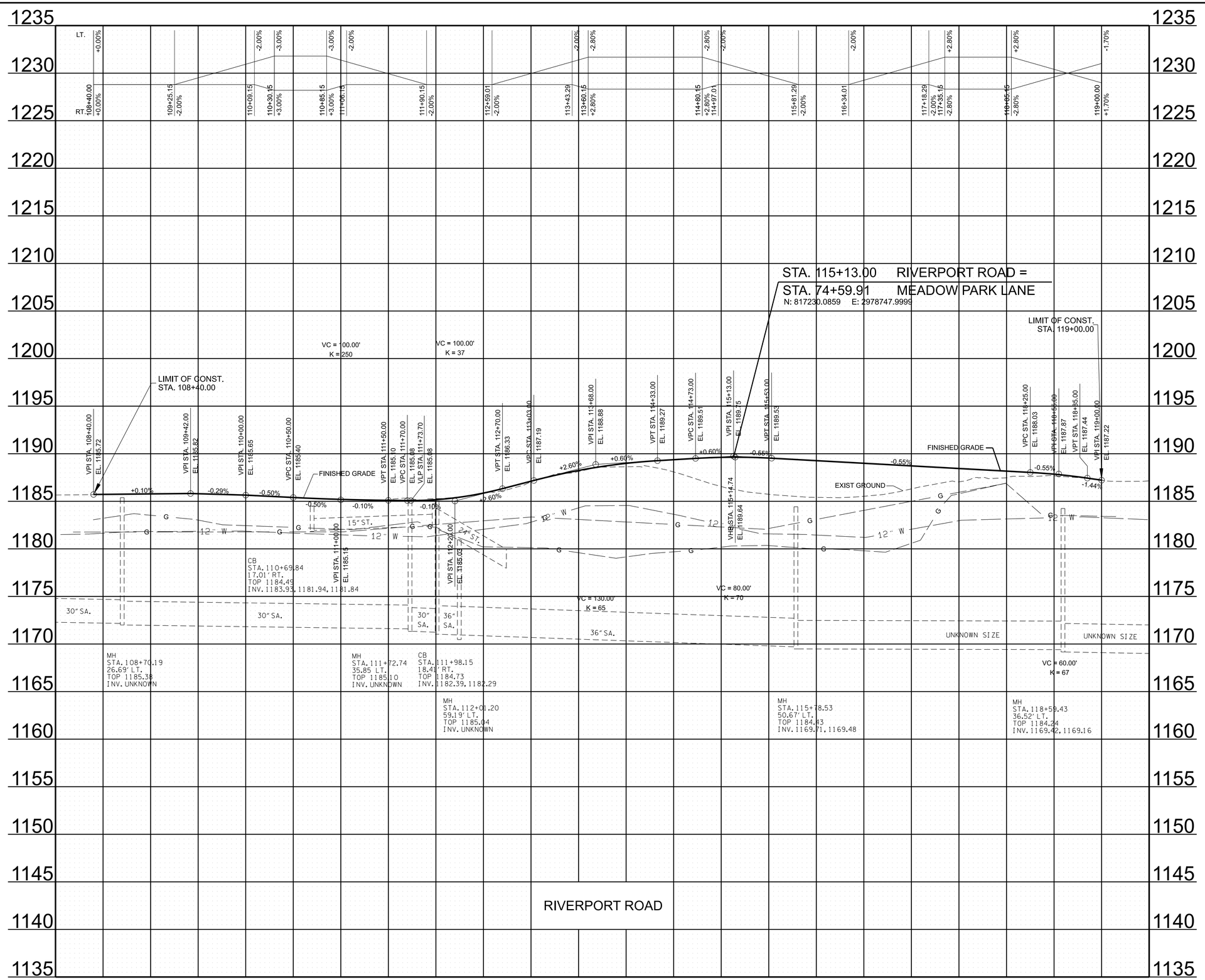
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	14
FUNCT.	2025	82956-2594-04	14
PIH	2026	82956-3594-04	14
PS&E	2026	82956-3594-04	14



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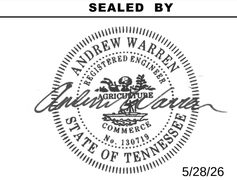

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DEPARTMENT OF TRANSPORTATION

SIDE ROAD
PROFILE

RIVERPORT RD. STA. 108+40.00 TO STA. 119+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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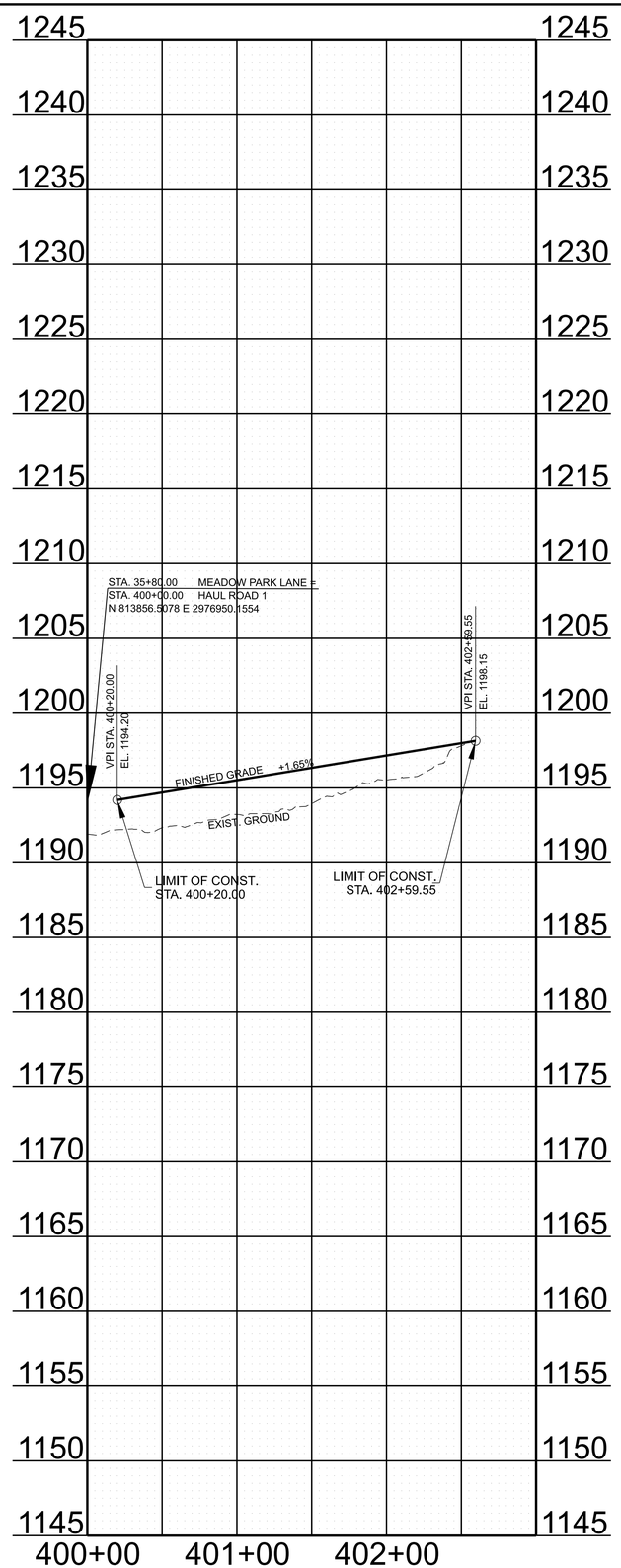
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	15
PIH	2026	82956-3594-04	15
PS&E	2026	82956-3594-04	15



HAUL ROAD 1

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STATE OF TENNESSEE

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HAUL ROAD PROFILES

HAUL ROAD 1 STA. 400+00.00 TO STA. 403+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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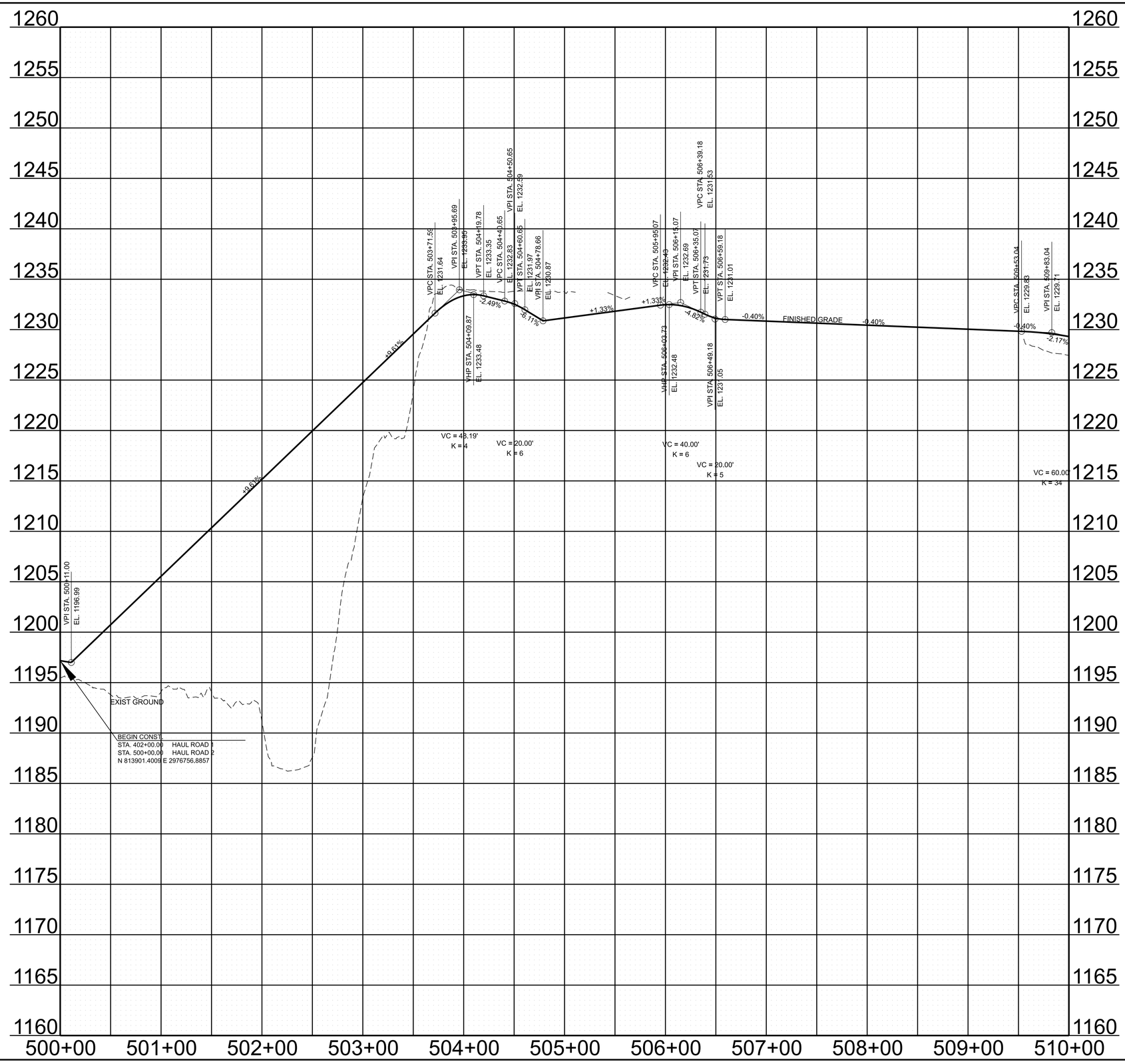

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	16
PIH	2026	82956-3594-04	16
PS&E	2026	82956-3594-04	16

HAUL ROAD 2

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HAUL ROAD PROFILES

HAUL ROAD 2 STA. 500+00.00 TO STA. 510+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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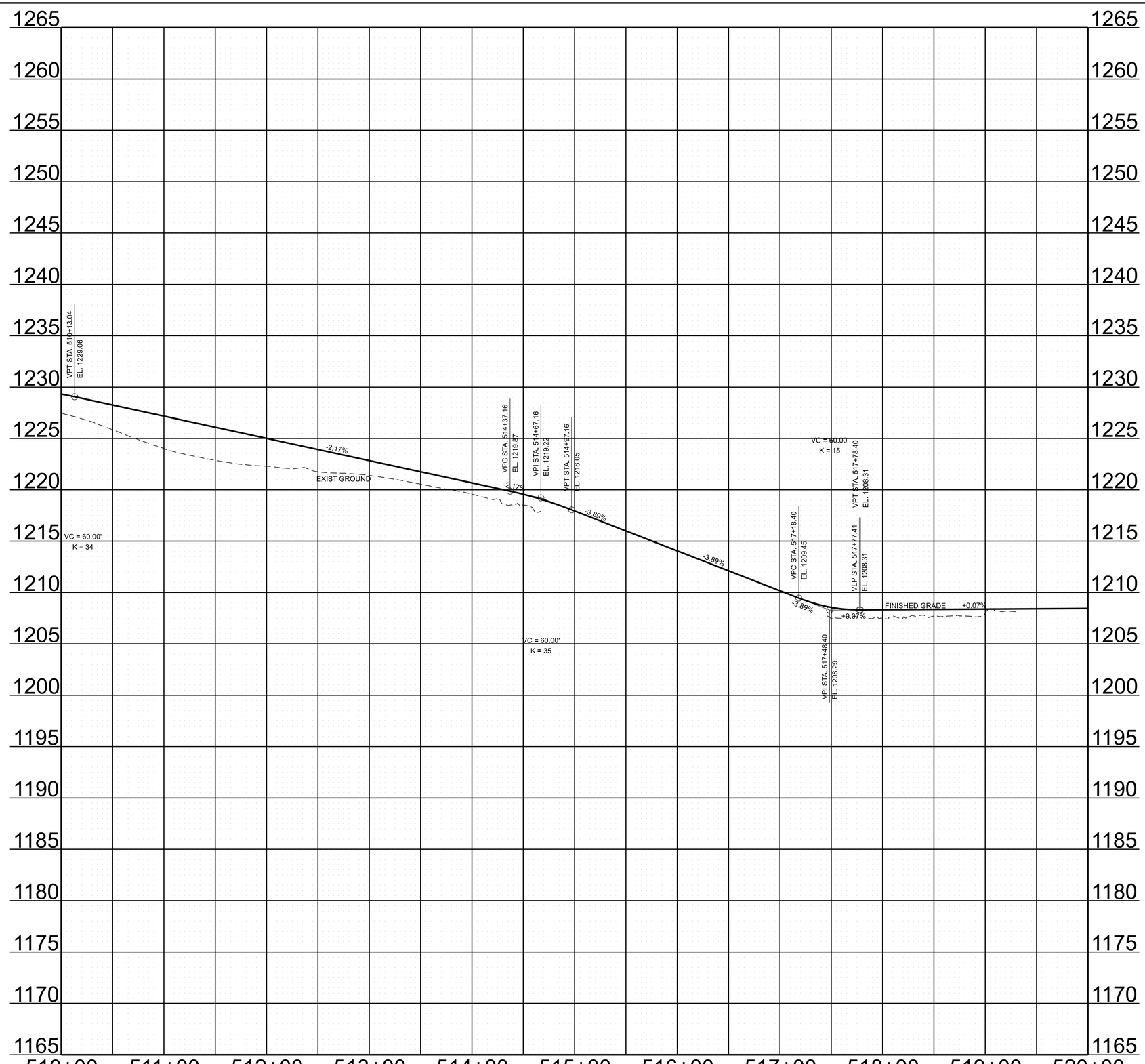

HAUL ROAD 2

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	17
PIH	2026	82956-3594-04	17
PS&E	2026	82956-3594-04	17

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HAUL ROAD PROFILES

HAUL ROAD 2 STA. 510+00.00 TO STA. 520+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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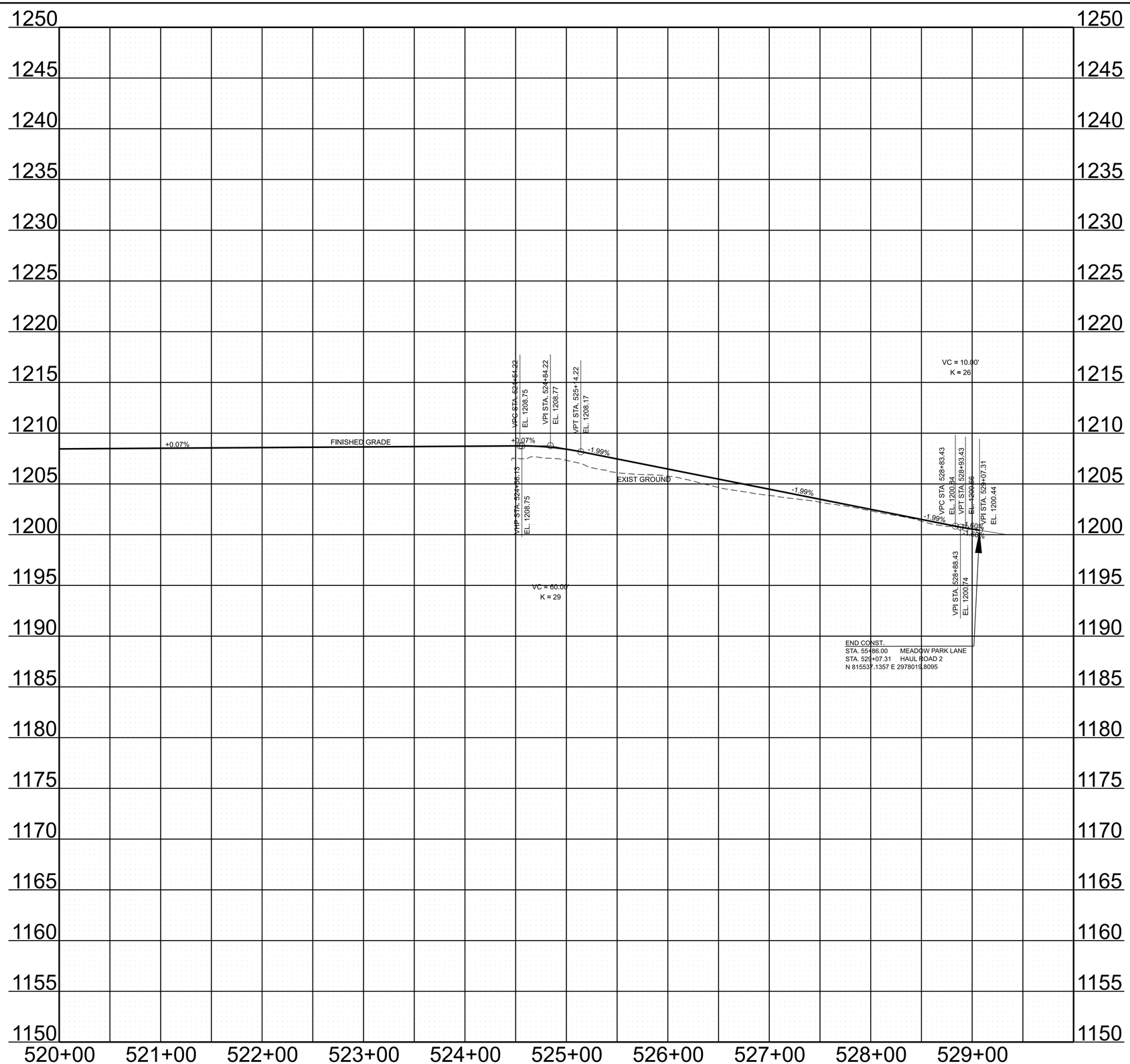
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	18
PIH	2026	82956-3594-04	18
PS&E	2026	82956-3594-04	18

NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. HAUL ROAD 2 GRADES AND SLOPES PAST SURVEY LIMITS HAVE BEEN APPROXIMATED. CONSTRUCTION TO BE AS DIRECTED BY THE TDOT MANAGER.



HAUL ROAD 2

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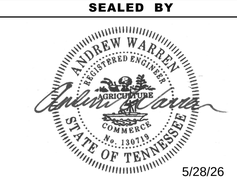

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

HAUL ROAD
PROFILES

HAUL ROAD 2 STA. 520+00.00 TO STA. 530+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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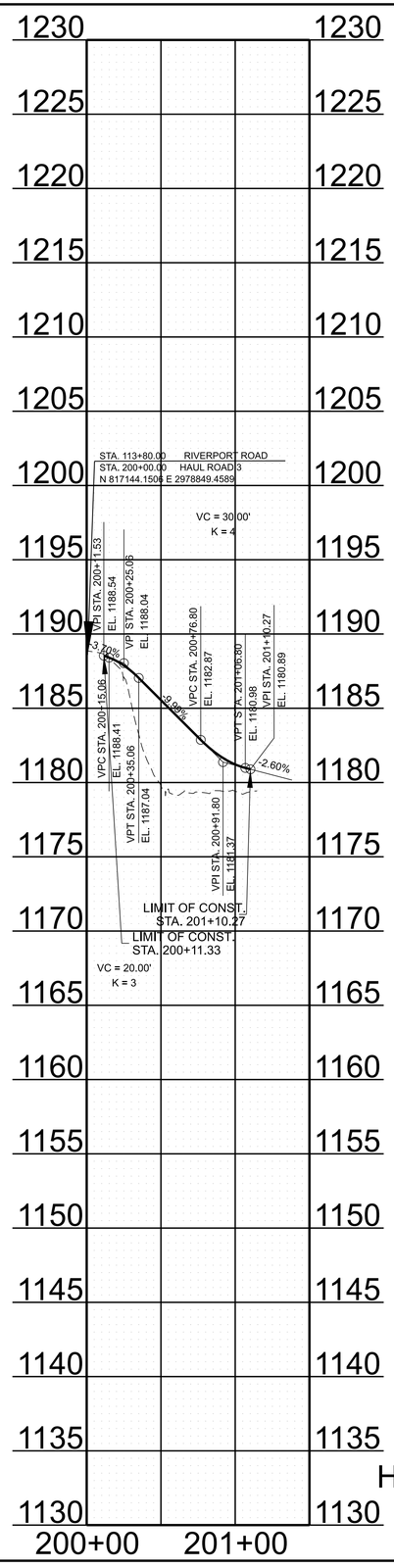

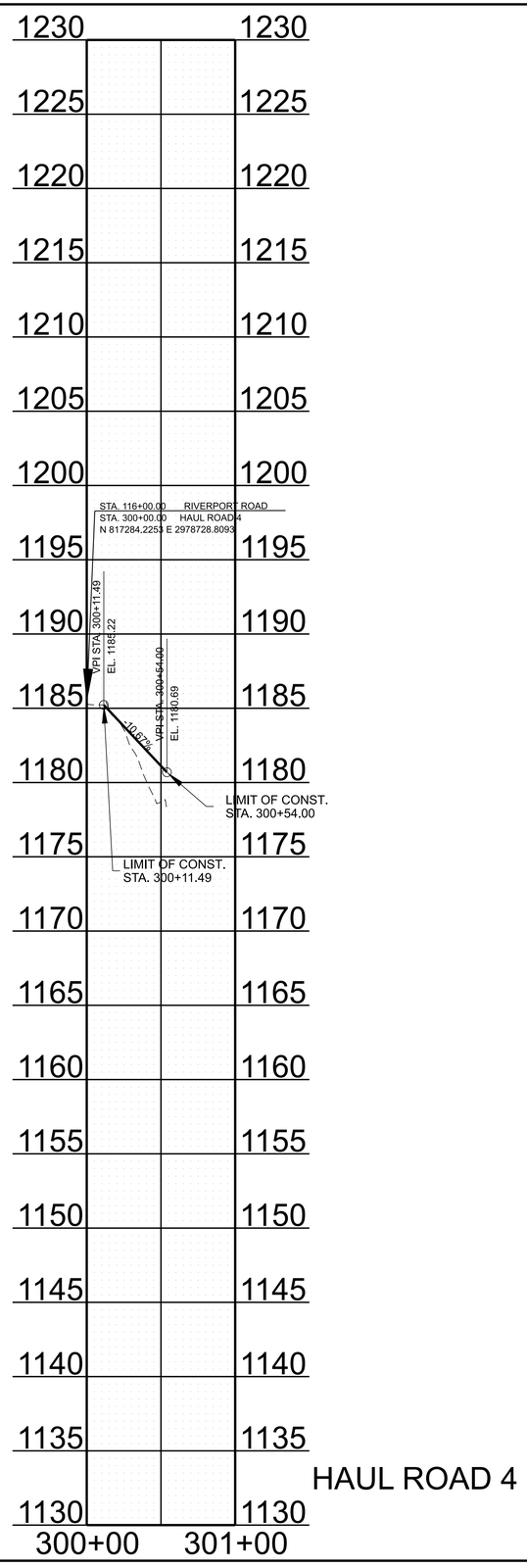

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	19
PIH	2026	82956-3594-04	19
PS&E	2026	82956-3594-04	19

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HAUL ROAD PROFILES

HAUL ROAD 3 STA. 200+00.00 TO STA. 201+10.27
HAUL ROAD 4 STA. 300+00.00 TO STA. 300+54.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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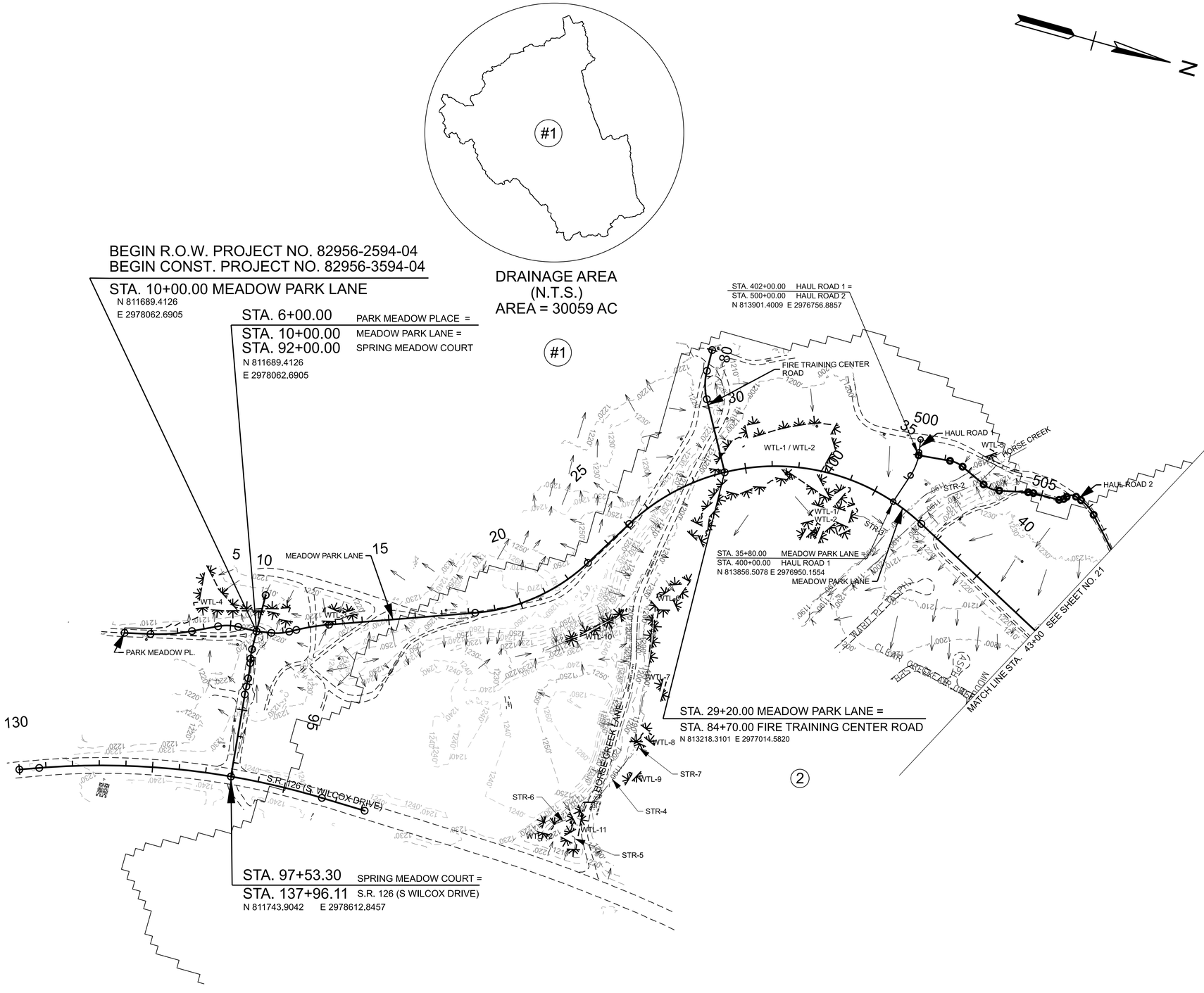
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	15
FUNCT.	2025	82956-2594-04	20
PIH	2026	82956-3594-04	20
PS&E	2026	82956-3594-04	20



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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 5+00.00 TO STA. 43+00.00
SCALE: 1" = 200'

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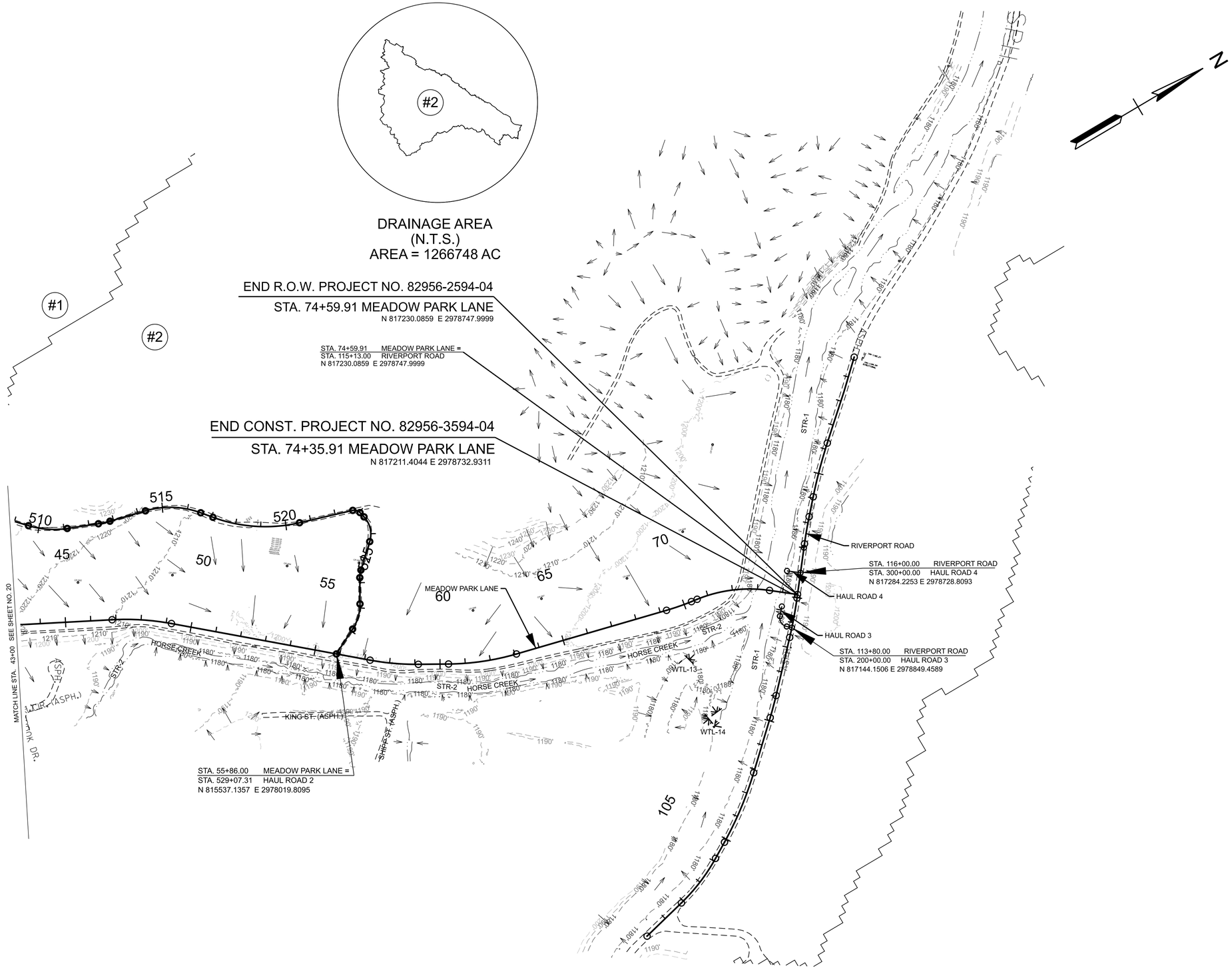
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	82956-1594-04	16
FUNCT.	2025	82956-2594-04	21
PIH	2026	82956-3594-04	21
PS&E	2026	82956-3594-04	21



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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 43+00.00 TO STA. 74+59.91
SCALE: 1" = 200'

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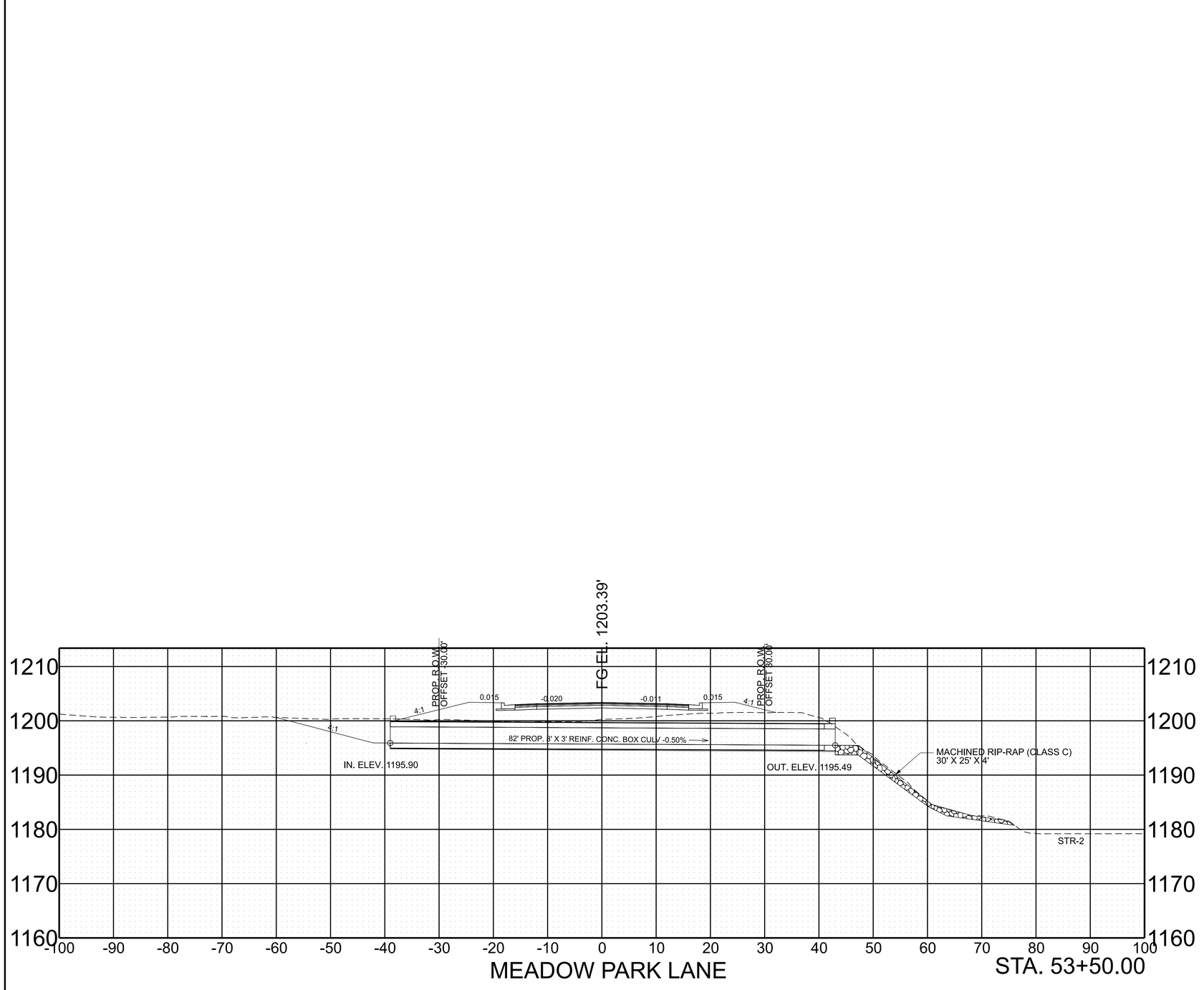
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	22
PIH	2026	82956-3594-04	22
PS&E	2026	82956-3594-04	22



CONCRETE BOX CULVERT
STATION: 53+50.00
STRUCTURE: 8' X 3' RCBC

SKEW	**90**	**DEG.**
DRAINAGE AREA	**48.45**	**AC.**
DESIGN DISCHARGE (Q50)	**196**	**CFS**
DESIGN DISCHARGE (Q100)	**212**	**CFS**
OVERTOPPING	**1204.25**	**ELEV.**
ALLOWABLE HEADWATER	**1200.50**	**ELEV.**
Q50 HEADWATER	**1198.59**	**ELEV.**
Q100 HEADWATER	**1198.89**	**ELEV.**
VELOCITY (Q50)	**10.62**	**FT/S**
VELOCITY (Q100)	**10.86**	**FT/S**
INLET	**1195.90**	**ELEV.**
OUTLET	**1195.49**	**ELEV.**

STANDARD DRAWING NOS.: STD-17-1 THRU STD 17-7, STD-17-9 THRU STD 17-11, STD-17-52
QUANTITIES:

CLASS "A" CONCRETE	**76**	**C.Y.**
STEEL BAR REINFORCING	**16700**	**LB.**
BEDDING MATERIAL		**C.Y.**
MACHINED RIP-RAP (CLASS C)		
LENGTH	**30**	**FT.**
WIDTH	**25**	**FT.**
DEPTH	**4**	**FT.**

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CULVERT CROSS-SECTION

STA. (MEADOW PARK LANE) 53+50.00

SCALE: 1" = 10' HORIZ.
1" = 10' VERT.

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EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	23
PIH	2026	82956-3594-04	23
PS&E	2026	82956-3594-04	23

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

(11) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEET SERIES (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(30) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

(31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

(32) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.

(33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

(34) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

(35) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

(36) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

(37) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

(38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.

(39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

(40) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

STREAMS, WETLANDS & BUFFER ZONES

(54) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION.

OFFSITE RUN-ON

(1) TEMPORARY DIVERSION BERMS AND CHANNELS ARE INTENDED TO SEPARATE OFFSITE RUN-ON FROM ON-SITE RUNOFF. THESE DEVICES ARE TO BE REMOVED ONCE ADJACENT ROADSIDE DITCHES ARE STABILIZED AND PERMANENT DRAINAGE STRUCTURES ARE INSTALLED.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB	SEDIMENT FILTER BAG	EC-STR-2
✳ SFB✳ SFB✳	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
RP ED	PERMANENT RIPRAP ENERGY DISSIPATOR	EC-STR-21
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	EROSION CONTROL BLANKET	EC-STR-34
✳✳ TUBE ✳✳ TUBE	SEDIMENT TUBE	EC-STR-37
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
✳ HVF✳ HVF✳	HIGH VISIBILITY FENCE	S-F-1

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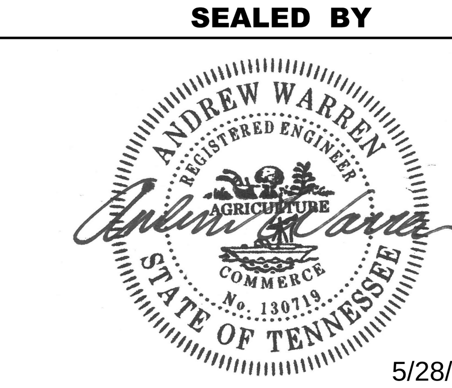

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

5/22/2026 8:36:21 AM
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PHASE 1 OUTFALLS		
OUTFALL	AREA (A.C.)	AVERAGE SLOPE (%)
1	0.62	2.44
1A	0.14	
1B	0.05	
1C	0.04	
1D	0.09	
1E	0.14	
1F	0.07	
1G	0.09	

PHASE 2 OUTFALLS		
OUTFALL	AREA (A.C.)	AVERAGE SLOPE (%)
2	4.77	1.61
2A	0.08	
2B	0.06	
2C	0.07	
2D	0.08	
2E	0.11	
2F	0.13	
2G	0.05	
2H	3.28	
2I	0.13	
2J	0.13	
2K	0.19	
2L	0.14	
2M	0.28	
2N	0.04	
3	0.15	0.98
3A	0.1	
3B	0.05	
4	0.39	2.37
4A	0.07	
4B	0.32	
5	0.91	1.34
5A	0.42	
5B	0.07	
5C	0.08	
5D	0.12	
5E	0.15	
5F	0.03	
5G	0.04	
6	0.92	1.72
6A	0.13	
6B	0.13	
6C	0.16	
6D	0.16	
6E	0.17	
6F	0.17	
7	0.89	1.57
7A	0.08	
7B	0.12	
7C	0.1	
7D	0.1	
7E	0.07	
7F	0.22	
7G	0.2	
8	1.03	0.5
8A	0.27	
8B	0.76	

PHASE 2 OUTFALLS		
OUTFALL	AREA (A.C.)	AVERAGE SLOPE (%)
9	1.09	1.31
9A	0.15	
9B	0.06	
9C	0.08	
9D	0.08	
9E	0.08	
9F	0.25	
9G	0.08	
9H	0.16	
9I	0.06	
9J	0.09	
10	1.22	1.83
10A	0.2	
10B	0.12	
10C	0.18	
10D	0.18	
10E	0.07	
10F	0.07	
10G	0.13	
10H	0.04	
10J	0.1	
10K	0.11	
11	0.51	4.75
12	0.13	2.60
13	0.21	3.33
14	0.96	0.85
15	0.6	0.63
16	0.42	0.50
17	0.13	2.27

PHASE 3 OUTFALLS		
OUTFALL	AREA (A.C.)	AVERAGE SLOPE (%)
2	4.77	1.61
2A	0.08	
2B	0.06	
2C	0.07	
2D	0.08	
2E	0.11	
2F	0.13	
2G	0.05	
2H	3.28	
2I	0.13	
2J	0.13	
2K	0.19	
2L	0.14	
2M	0.28	
2N	0.04	
3	0.15	0.98
3A	0.1	
3B	0.05	
4	0.39	2.37
4A	0.07	
4B	0.32	
5	0.91	1.34
5A	0.42	
5B	0.07	
5C	0.08	
5D	0.12	
5E	0.15	
5F	0.03	
5G	0.04	
6	0.92	1.72
6A	0.13	
6B	0.13	
6C	0.16	
6D	0.16	
6E	0.17	
6F	0.17	

PHASE 3 OUTFALLS		
OUTFALL	AREA (A.C.)	AVERAGE SLOPE (%)
7	0.89	1.57
7A	0.08	
7B	0.12	
7C	0.1	
7D	0.1	
7E	0.07	
7F	0.22	
7G	0.2	
8	1.03	0.5
9	1.09	1.31
9A	0.15	
9B	0.06	
9C	0.08	
9D	0.08	
9E	0.08	
9F	0.25	
9G	0.08	
9H	0.16	
9I	0.06	
9J	0.09	
10	1.22	1.83
10A	0.2	
10B	0.12	
10C	0.18	
10D	0.18	
10E	0.07	
10F	0.07	
10G	0.13	
10H	0.04	
10I	0.02	
10J	0.1	
10K	0.11	
11	0.51	4.75
12	0.13	2.60
13	0.21	3.33
14	0.96	0.85
15	0.6	0.63
16	0.42	0.50
17	0.13	2.27

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	24
PIH	2026	82956-3594-04	24
PS&E	2026	82956-3594-04	24

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 82956-3594-04
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	2500
(2)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	200
(2)	209-05	SEDIMENT REMOVAL	C.Y.	650
(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	19000
(2)	209-08.07	ROCK CHECK DAM	EACH	100
(2)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	12
(2)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
(2)	209-40.46	CATCH BASIN PROTECTION (TYPE 6)	EACH	53
(2)	209-40.47	CATCH BASIN PROTECTION (TYPE 7)	EACH	6
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	370
(3)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	100
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1910
(4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	101
(5)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	130
(6)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	2359
(7)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	225
(2)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	8622
(2)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	15541
(2)	740-11.03	TEMPORARY SEDIMENT TUBE 18 IN	L.F.	646
(8)	801-01	SEEDING (WITH MULCH)	UNIT	100
(9)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	500
(10)	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	6
(8)	801-02	SEEDING (WITHOUT MULCH)	UNIT	400
(11)	801-03	WATER (SEEDING & SODDING)	M.G.	100
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	300
(2)(8)(12)	803-01	SODDING (NEW SOD)	S.Y.	19930
(2)(8)(13)	805-01.01	TURF REINFORCEMENT MAT (CLASS I)	S.Y.	5000
(8)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	32000

FOOTNOTES

(1) TO BE USED FOR THE EXCAVATION AND SHAPING OF DITCH BERMS.

(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(3) TO BE USED FOR THE TEMPORARY CULVERT CROSSING ON HAUL ROAD 2. QUANTITY IS BASED ON MINMIMUM CALCULATIONS. ACTUAL SIZE AND LENGTH WILL BE DETERMINED BASED ON FIELD CONDITIONS ENCOUNTERED AND INSTALLED AT NO ADDITIONAL COST.

(4) TO BE USED FOR TEMP. CONST. EXITS.

(5) TO BE USED AT OUTFALLS SPECIFIED ON PROPOSED LAYOUT SHEETS. INCLUDES 15 TONS FOR EW 1A, 13 TONS FOR EW 16A, 58 TONS FOR EW 18A, 30 TONS FOR EW 24A, 10 TONS FOR EW 43A, 4 TONS FOR EW 60.

(6) TO BE USED AT OUTFALLS SPECIFIED ON PROPOSED LAYOUT SHEETS. INCLUDES 25 TONS FOR EW 27A, 1373 TONS FOR BRIDGE 1, AND 961 TONS FOR BRIDGE 2. SEE BRIDGE PLANS FOR ADDITIONAL INFORMATION.

(7) TO BE USED AT OUTFALLS SPECIFIED ON PROPOSED LAYOUT SHEETS. INCLUDES 31 TONS FOR EW 38A, AND 194 TONS FOR THE BOX CULVERT AT STA. 53+50.

(8) TO BE USED AS DIRECTED ON TYPICAL SECTIONS SHEETS 2B - 2B3. SEE SEEDING AND SODDING NOTES ON SHEET 2C.

(9) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(10) SEE WETLAND SPECIAL NOTES ON SHEET 2E.

(11) INCLUDES 7 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(12) INCLUDES 9000 S.Y. FOR BERM AREAS, 200 S.Y. FOR ROADSIDE DITCHES AT ROUNDABOUT, 4500 S.Y. FOR ROADSIDE DITCHES FROM STA. 37+80 TO 46+00, 845 S.Y. FOR ROADSIDE DITCHES FROM STA. 70+00 TO 72+35, 625 S.Y. FOR ROADSIDE DITCHES ON FIRE TRAINING CENTER ROAD. SEE SPECIAL DITCHES TABULATED QUANTITY TABLE ON SHEET 2F1 FOR ADDITIONAL QUANTITIES.

(13) INCLUDES 4100 S.Y. FOR ROADSIDE DITCHES FROM STA. 13+00 TO 21+50. SEE SPECIAL DITCHES TABULATED QUANTITY TABLE ON SHEET 2F1 FOR ADDITIONAL QUANTITIES.

SEALED BY

ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130715 STATE OF TENNESSEE

5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

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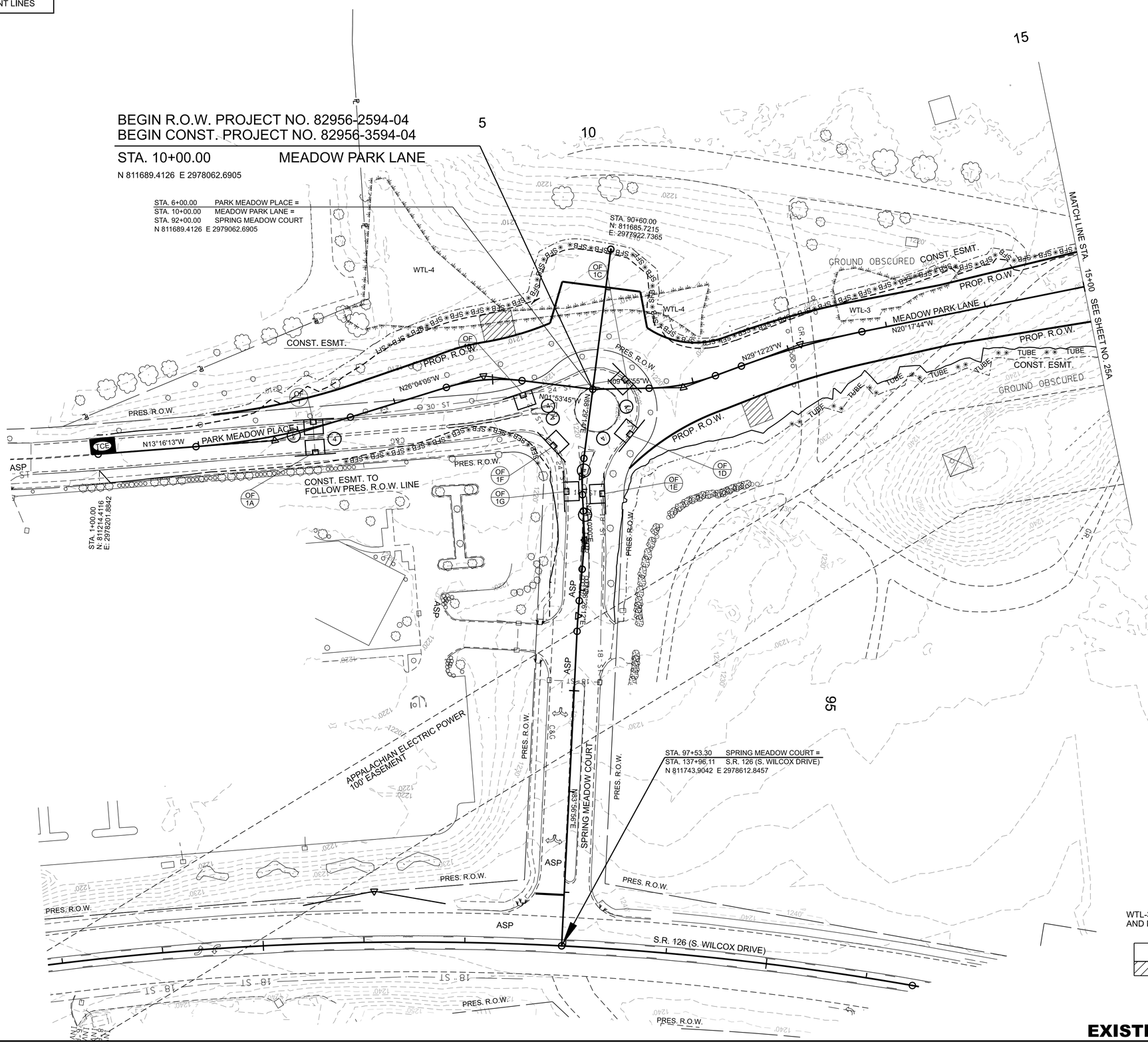
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25
PIH	2026	82956-3594-04	25
PS&E	2026	82956-3594-04	25



WTL-3 AND WTL-4 WILL BE PERMITTED AND MITIGATED BY OTHERS.

LEGEND	
	PERM. DRG. ESMT.

STAGE 1
EXISTING CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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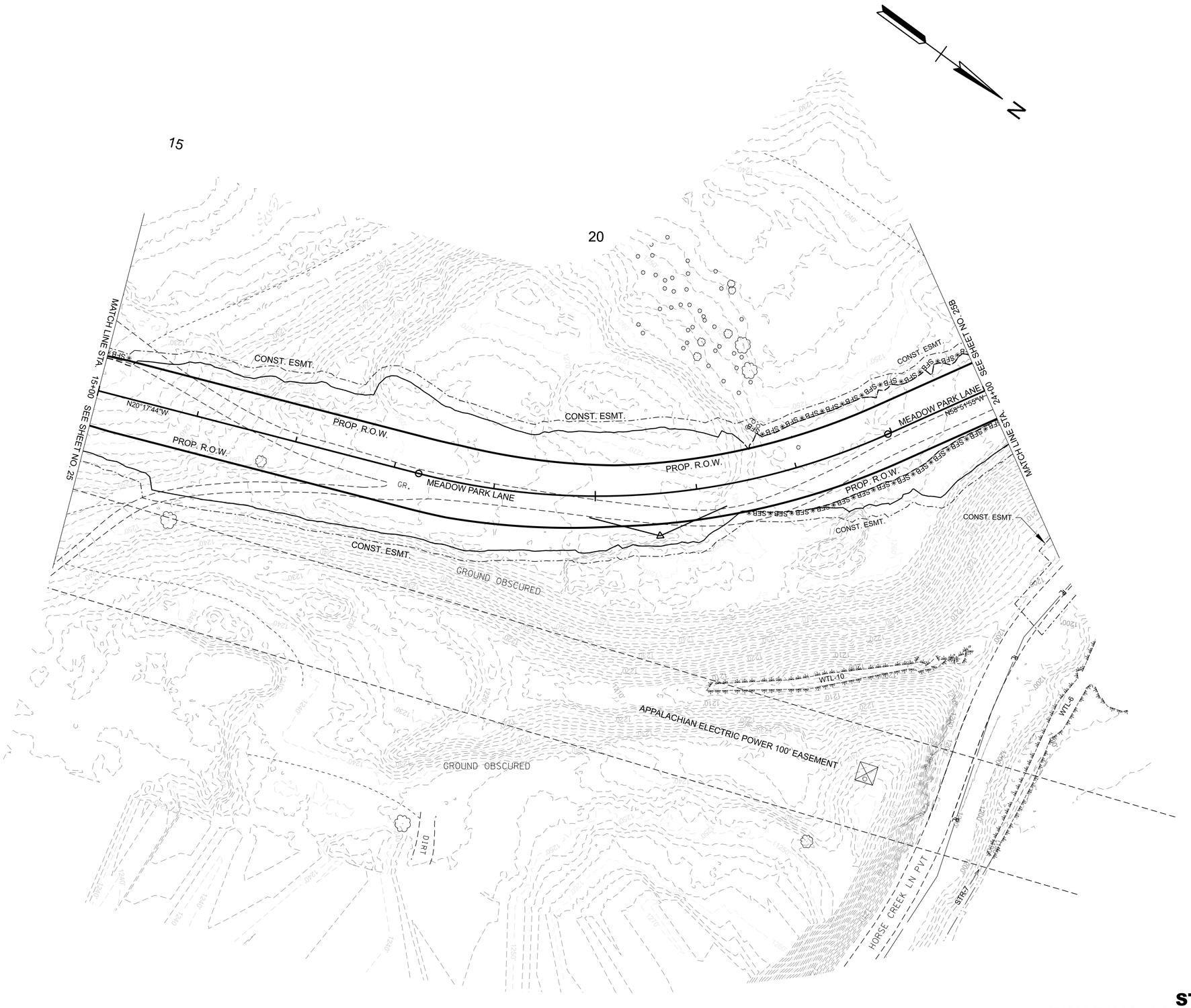
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25A
PIH	2026	82956-3594-04	25A
PS&E	2026	82956-3594-04	25A



STAGE 1
EXISTING CONTOURS

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ANDREW WARREN
REGISTERED ENGINEER
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COMMERCE
No. 136718
STATE OF TENNESSEE

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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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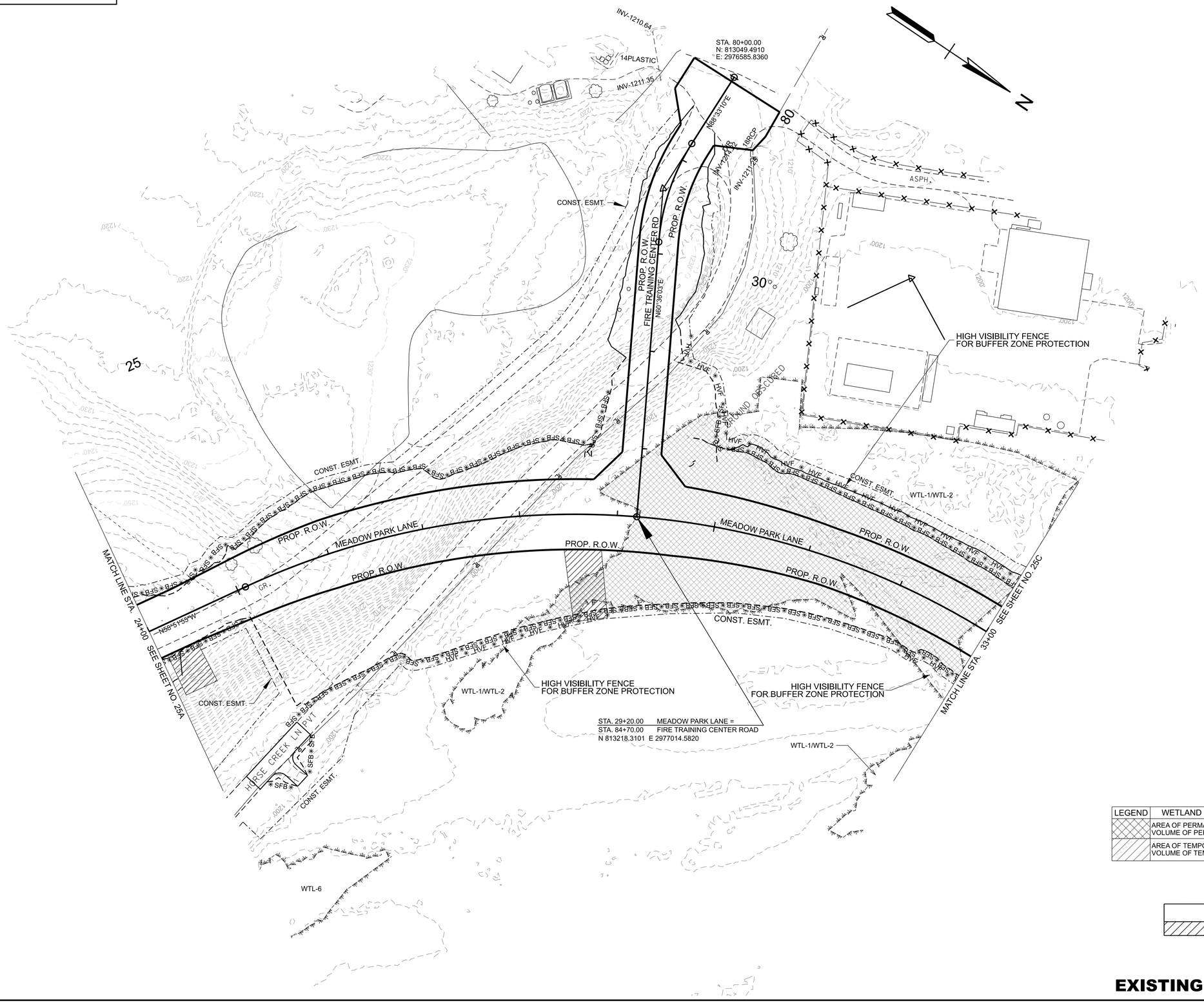
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25B
PIH	2026	82956-3594-04	25B
PS&E	2026	82956-3594-04	25B



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. DRG. ESMT.

SEALED BY

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PRINCIPAL
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No. 130715
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

STAGE 1 EXISTING CONTOURS

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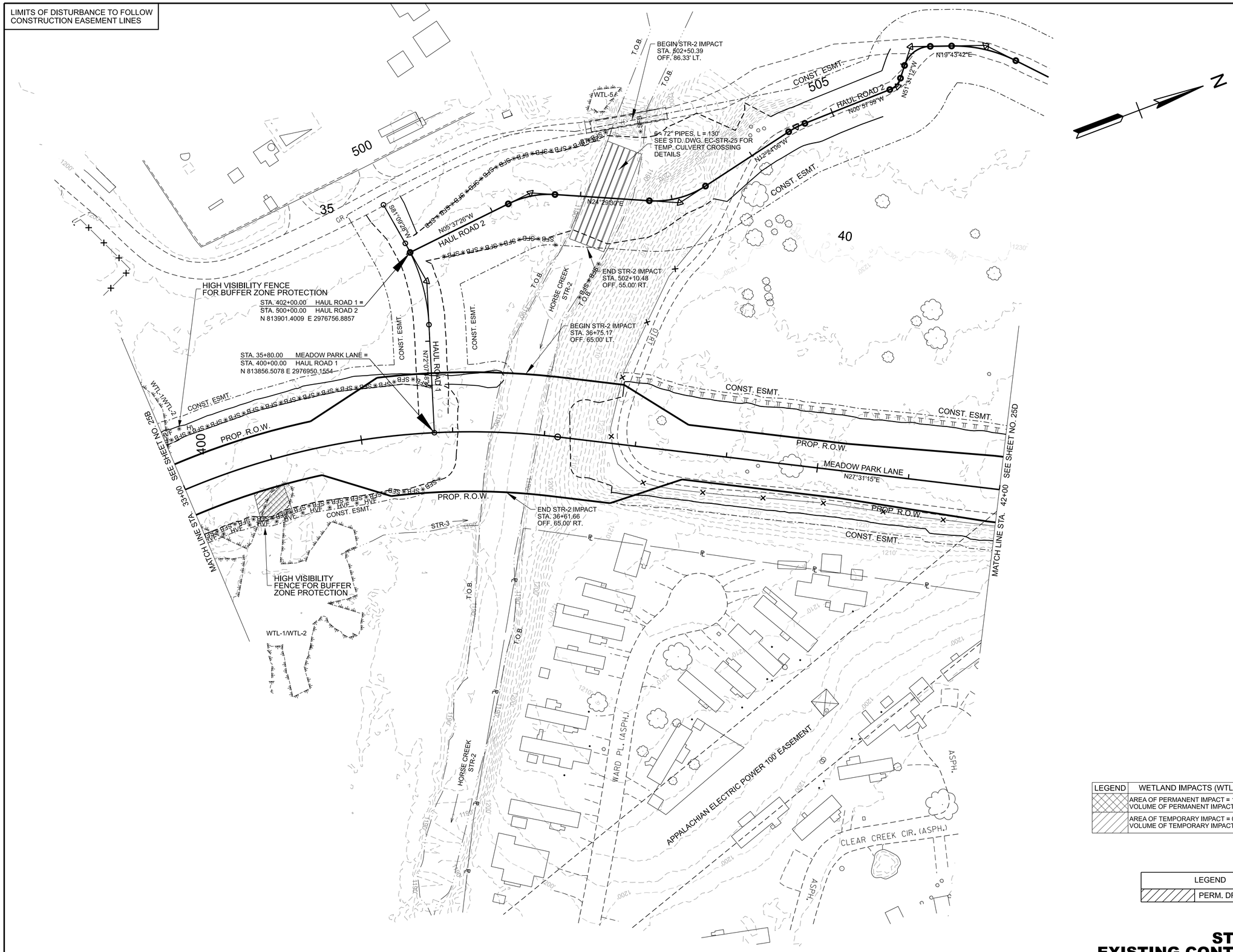
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25C
PIH	2026	82956-3594-04	25C
PS&E	2026	82956-3594-04	25C



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND
PERM. DRG. ESMT.

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ANDREW WARREN
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No. 130718
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

STAGE 1 EXISTING CONTOURS

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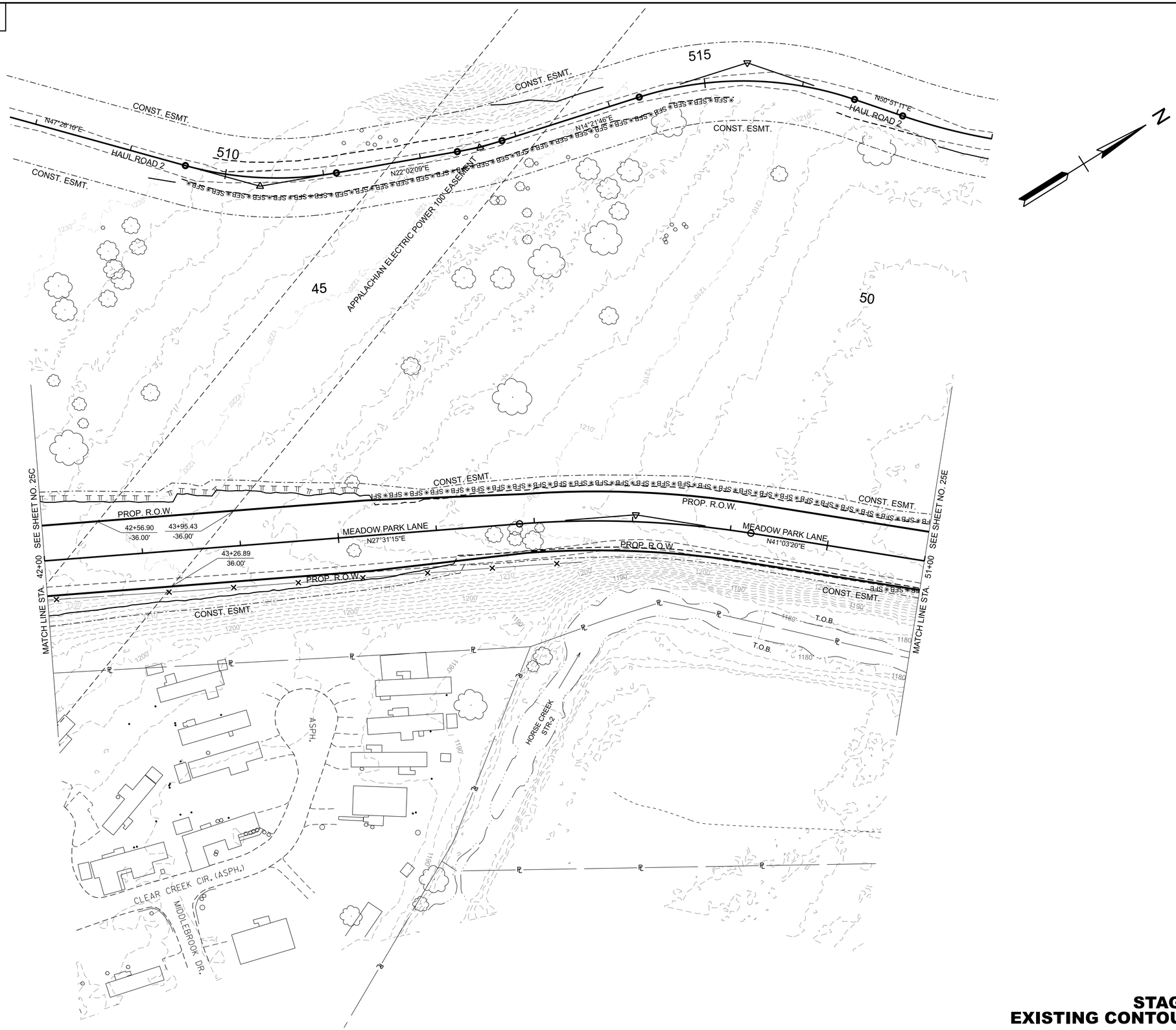
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25D
PIH	2026	82956-3594-04	25D
PS&E	2026	82956-3594-04	25D



STAGE 1
EXISTING CONTOURS

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ANDREW WARREN
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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

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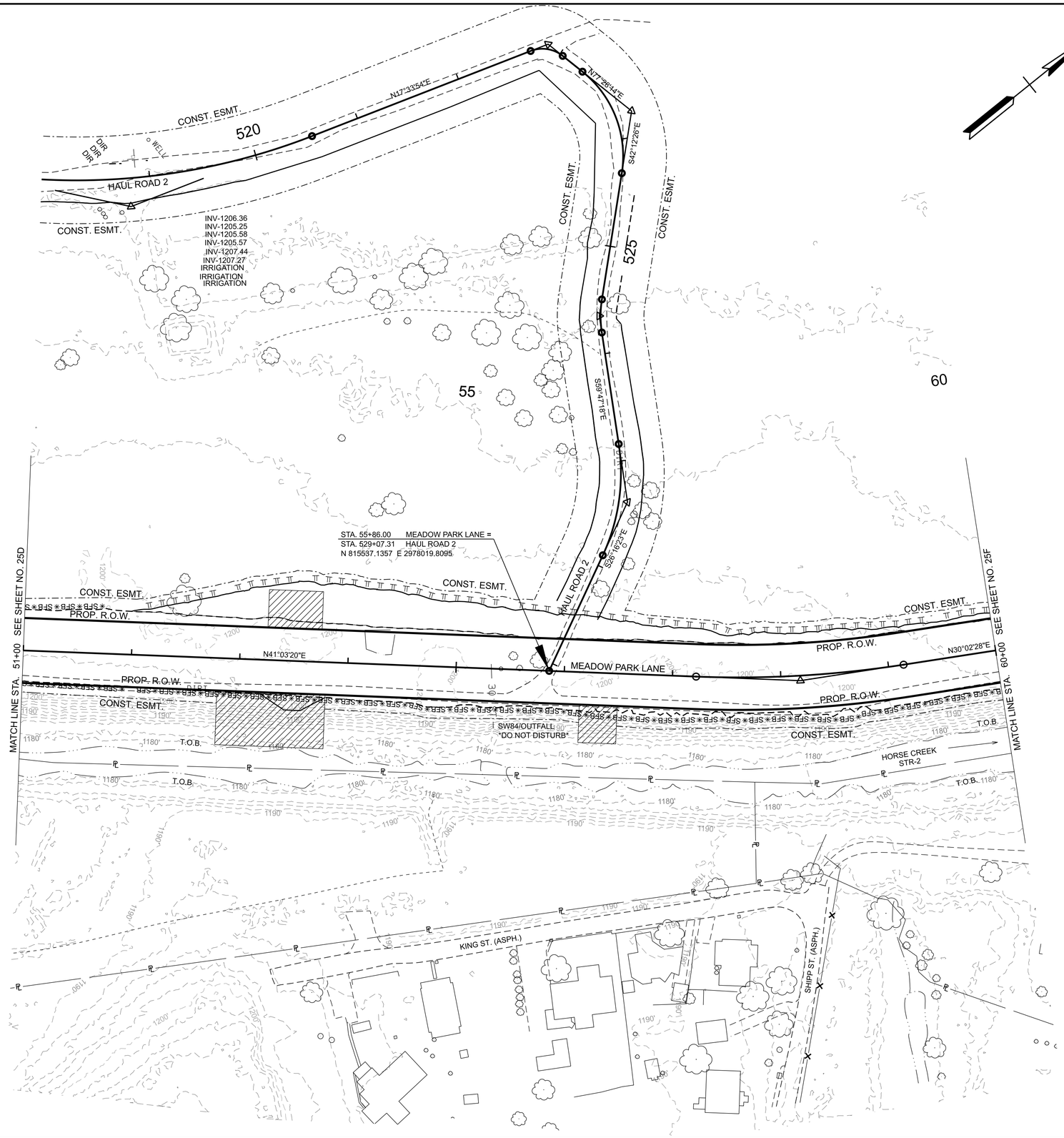
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25E
PIH	2026	82956-3594-04	25E
PS&E	2026	82956-3594-04	25E



LEGEND

	PERM. DRG. ESMT.

STAGE 1
EXISTING CONTOURS

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ANDREW WARREN
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AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25F
PIH	2026	82956-3594-04	25F
PS&E	2026	82956-3594-04	25F

STAGE 1
EXISTING CONTOURS

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REGISTERED ENGINEER
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COMMERCE
No. 130719
STATE OF TENNESSEE

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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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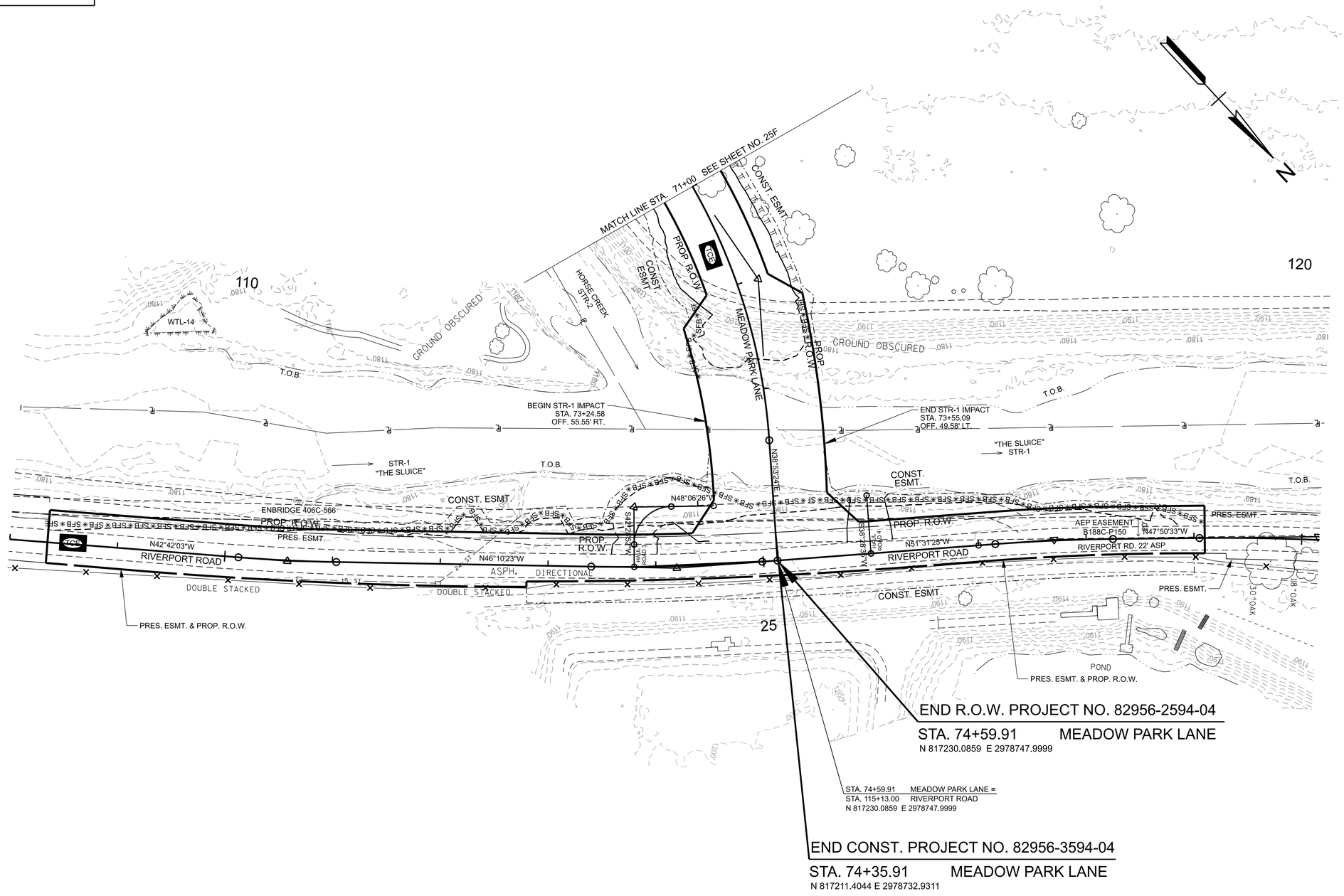
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	25G
PIH	2026	82956-3594-04	25G
PS&E	2026	82956-3594-04	25G



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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

STAGE 1 EXISTING CONTOURS

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LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26
PIH	2026	82956-3594-04	26
PS&E	2026	82956-3594-04	26

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00	PARK MEADOW PLACE =	
STA. 10+00.00	MEADOW PARK LANE =	
STA. 92+00.00	SPRING MEADOW COURT	
N 811689.4126	E 2979062.6905	

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

STA. 11+00.00
N: 811214.4116
E: 2979201.5842

STA. 97+53.80	SPRING MEADOW COURT =	
STA. 137+96.11	S.R. 126 (S. WILCOX DRIVE)	
N 811743.9042	E 2978612.8457	

SEE SHEET NO. 26A
15+00 MATCH LINE STA.

LEGEND	
	PERM. DRG. ESMT.

WTL-3 AND WTL-4 WILL BE PERMITTED AND MITIGATED BY OTHERS.

STAGE 2
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

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EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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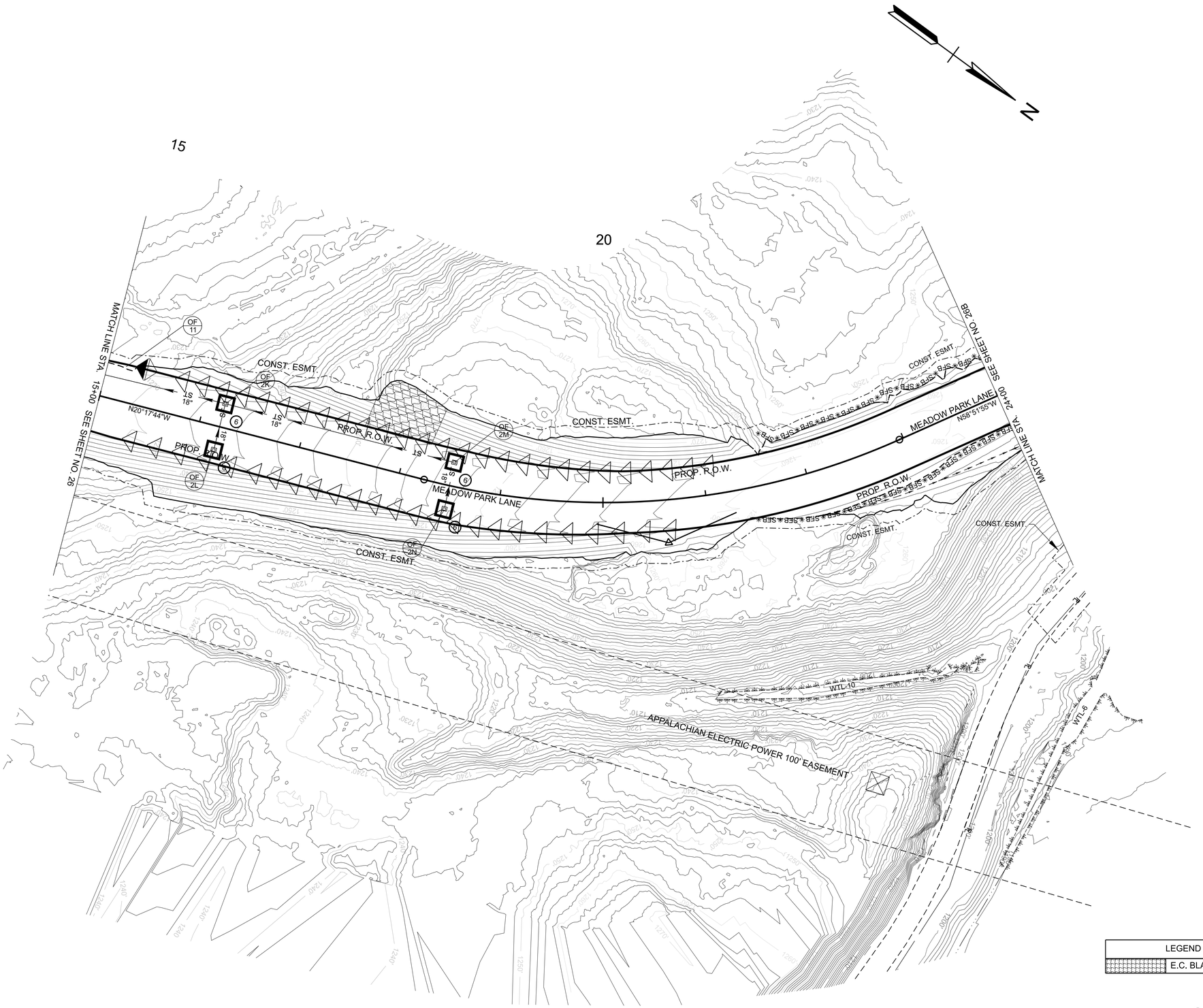
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26A
PIH	2026	82956-3594-04	26A
PS&E	2026	82956-3594-04	26A



LEGEND	
	E.C. BLANKET

STAGE 2
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 136719
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

5/21/2026 9:25:00 AM
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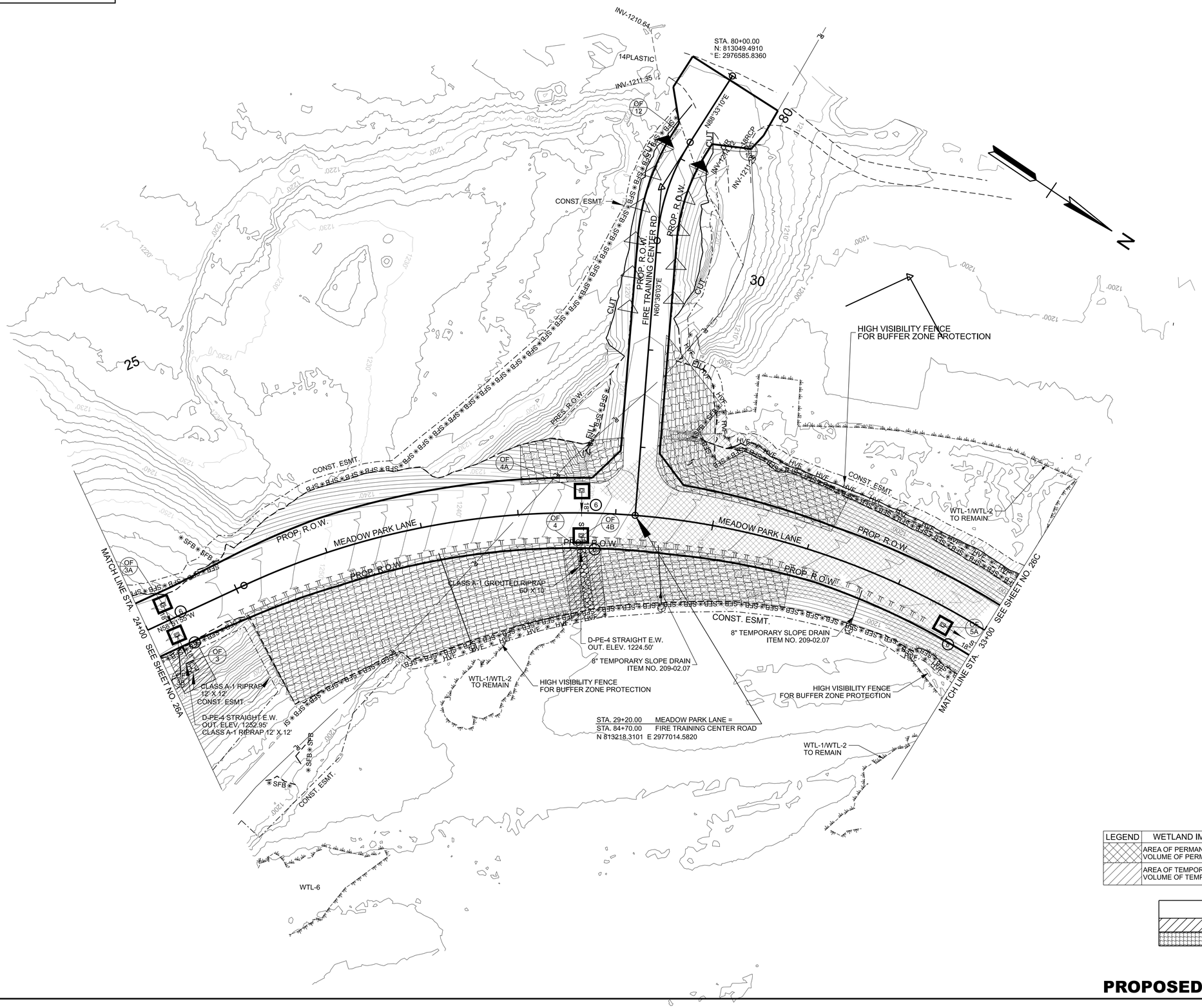
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26B
PIH	2026	82956-3594-04	26B
PS&E	2026	82956-3594-04	26B



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. DRG. ESMT.
	E.C. BLANKET

STAGE 2
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

5/21/2026 9:25:30 AM
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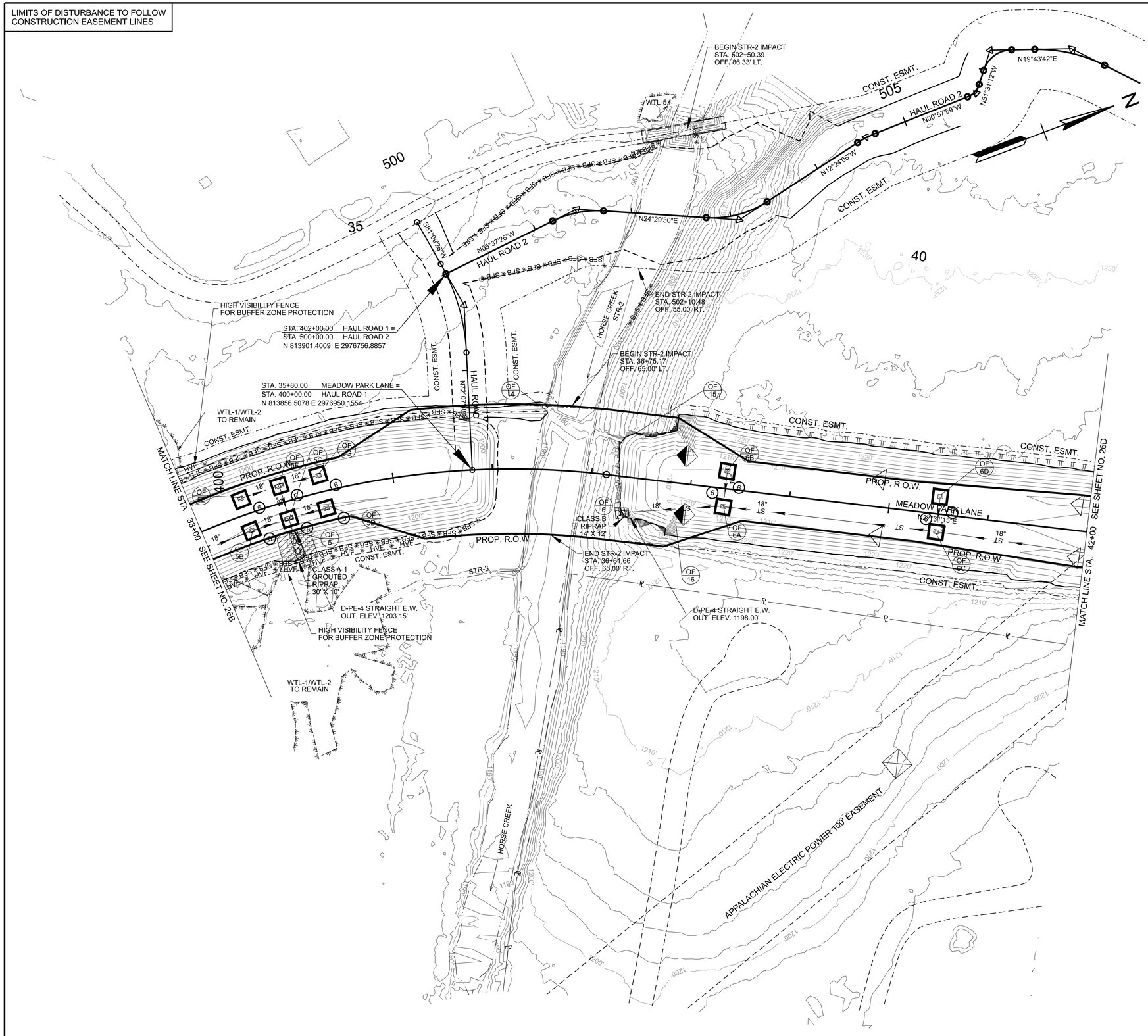
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26C
PIH	2026	82956-3594-04	26C
PS&E	2026	82956-3594-04	26C



NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. GRADES AND SLOPES PAST THIS LIMIT HAVE BEEN APPROXIMATED. EPSC MEASURES TO BE AS DIRECTED BY THE TDOT MANAGER.

LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130716
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

STAGE 2 PROPOSED CONTOURS

5/19/2026 3:33:19 PM
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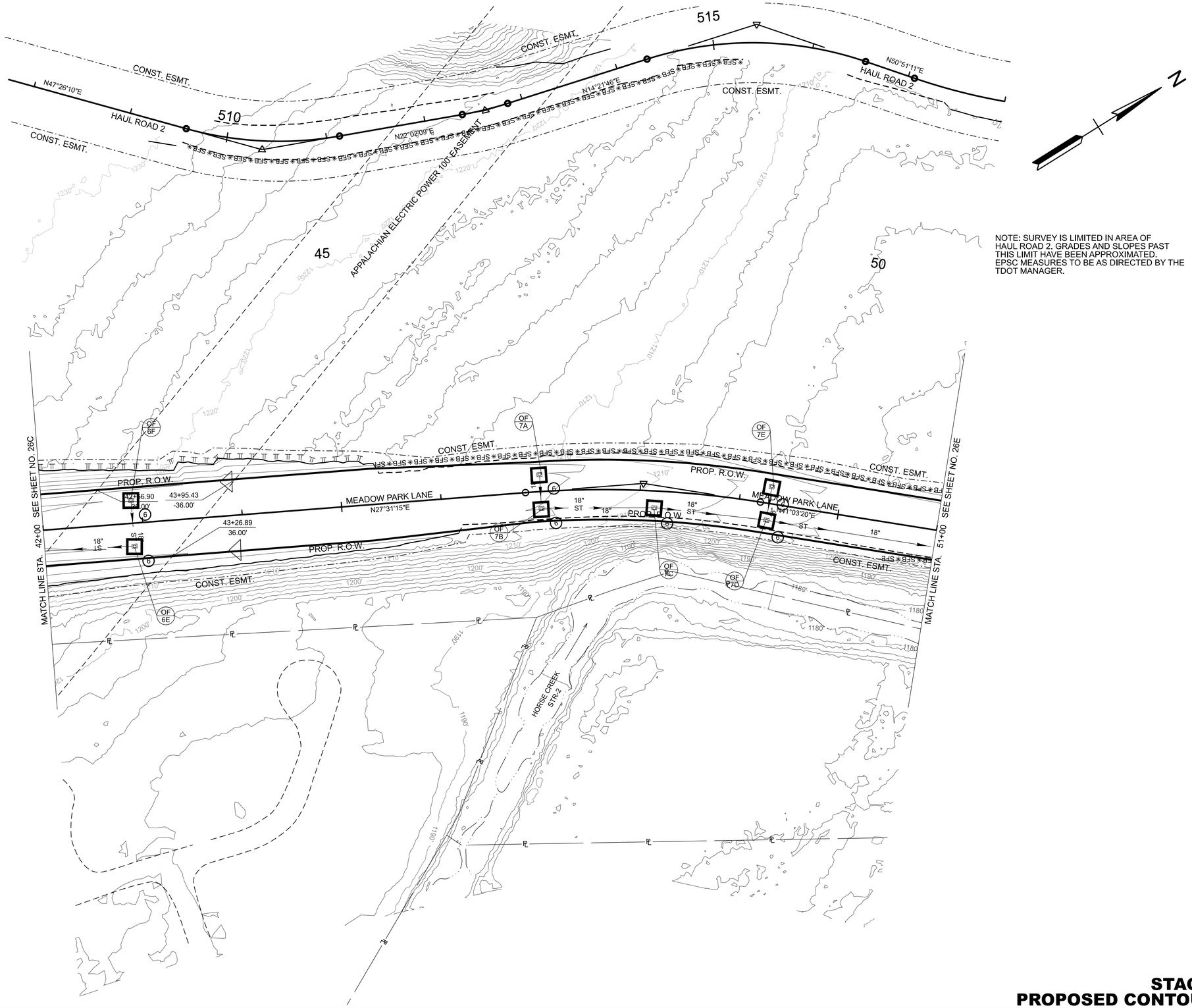
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26D
PIH	2026	82956-3594-04	26D
PS&E	2026	82956-3594-04	26D



STAGE 2
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 136719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

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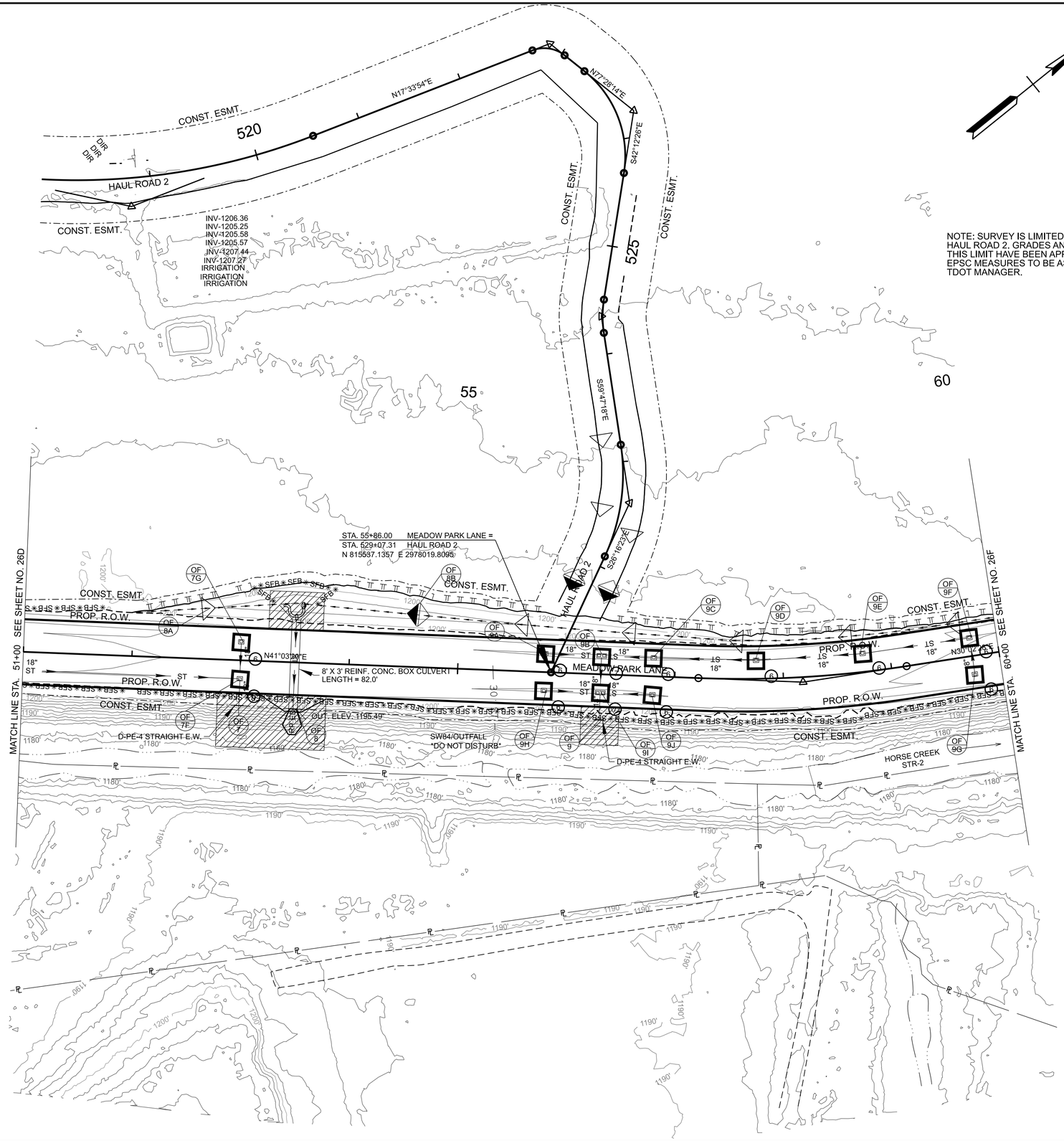
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26E
PIH	2026	82956-3594-04	26E
PS&E	2026	82956-3594-04	26E



NOTE: SURVEY IS LIMITED IN AREA OF HAUL ROAD 2. GRADES AND SLOPES PAST THIS LIMIT HAVE BEEN APPROXIMATED. EPSC MEASURES TO BE AS DIRECTED BY THE TDOT MANAGER.

LEGEND	
	PERM. DRG. ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

STAGE 2
PROPOSED CONTOURS

5/21/2026 9:26:41 AM
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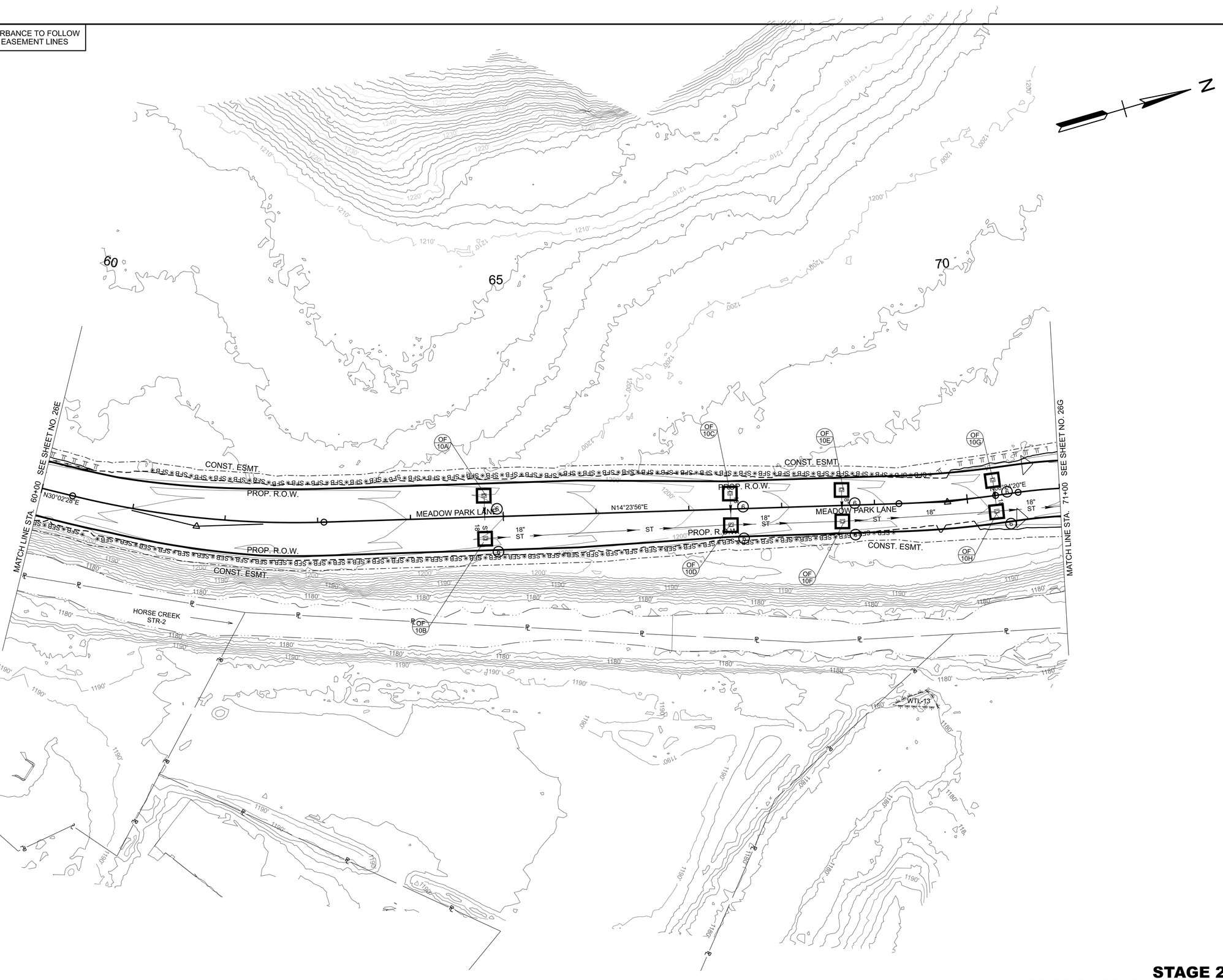
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26F
PIH	2026	82956-3594-04	26F
PS&E	2026	82956-3594-04	26F



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ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

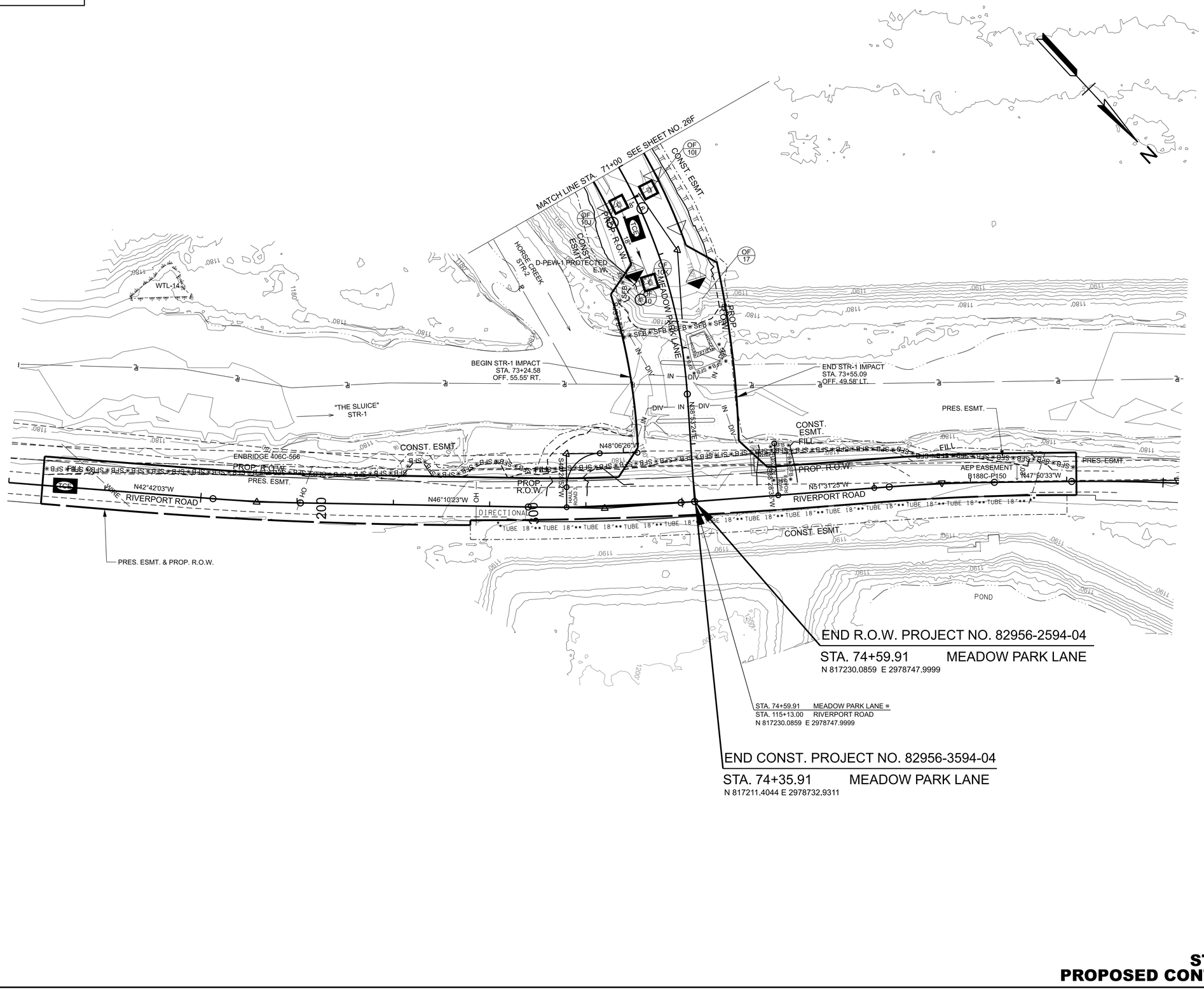
EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

STAGE 2
PROPOSED CONTOURS

LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	26G
PIH	2026	82956-3594-04	26G
PS&E	2026	82956-3594-04	26G



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5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

STAGE 2
PROPOSED CONTOURS

5/21/2026 9:30:38 AM
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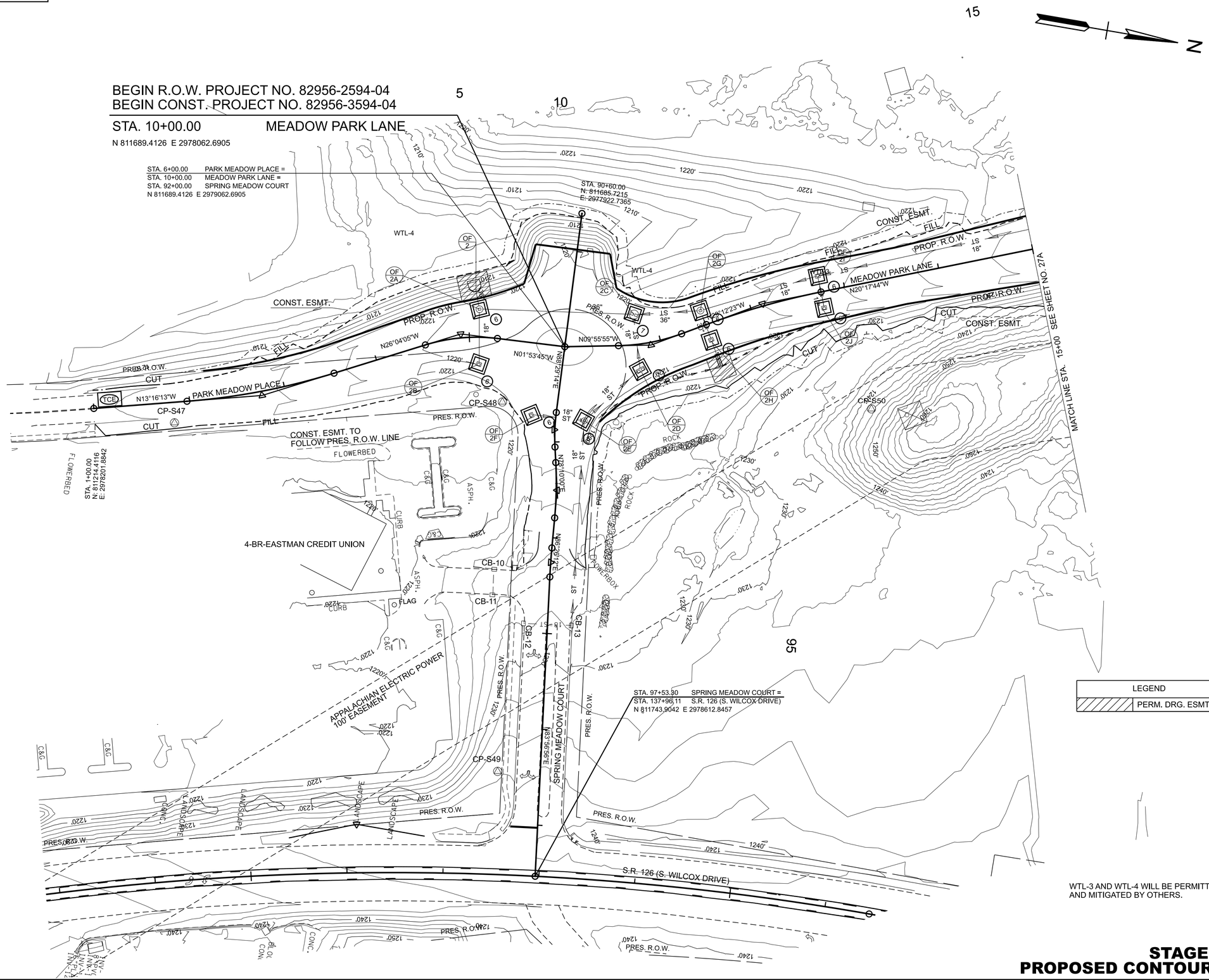
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27
PIH	2026	82956-3594-04	27
PS&E	2026	82956-3594-04	27



LEGEND	
	PERM. DRG. ESMT.

WTL-3 AND WTL-4 WILL BE PERMITTED AND MITIGATED BY OTHERS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

STAGE 3
PROPOSED CONTOURS

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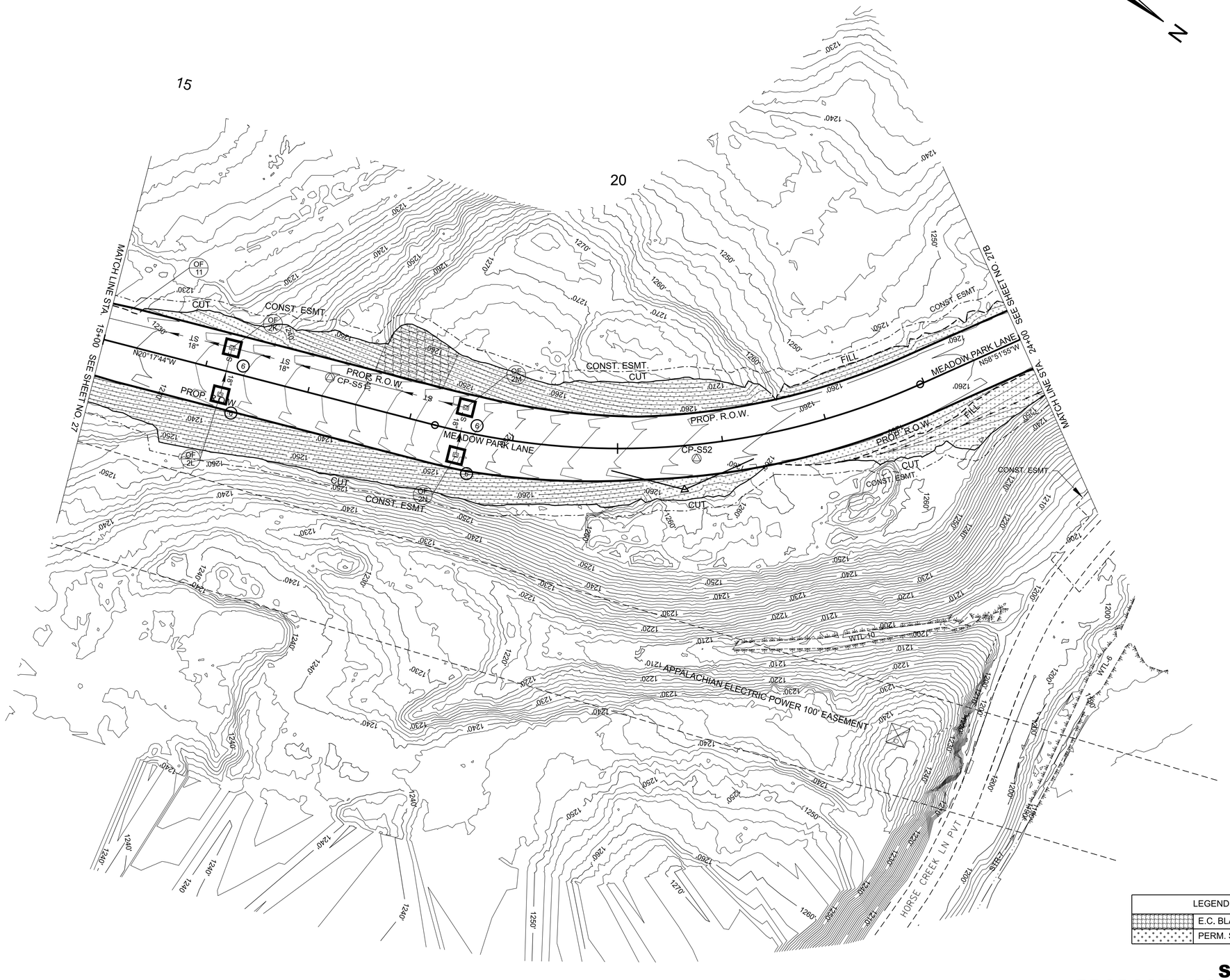
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27A
PIH	2026	82956-3594-04	27A
PS&E	2026	82956-3594-04	27A



N

LEGEND	
	E.C. BLANKET
	PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
No. 130719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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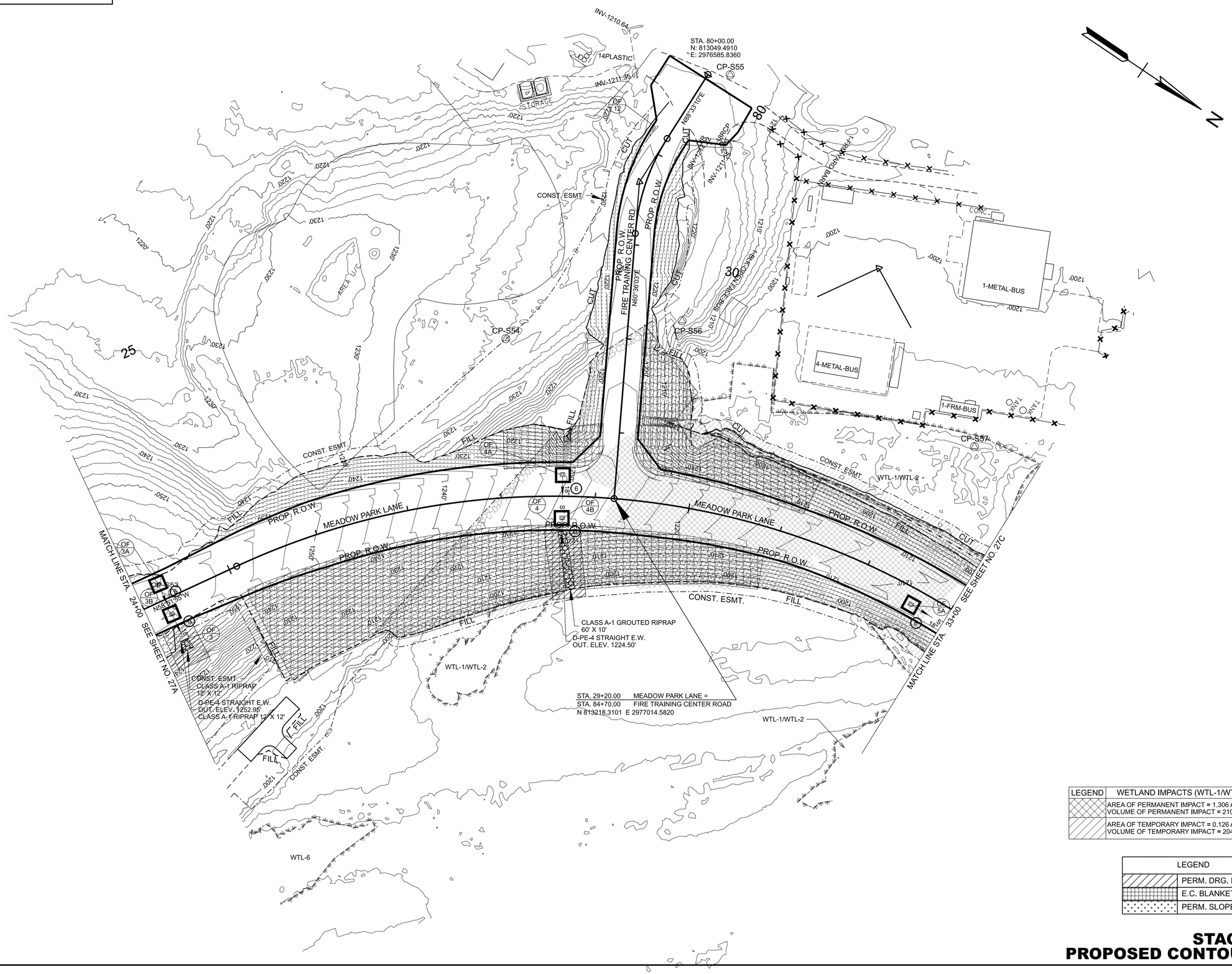
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27B
PIH	2026	82956-3594-04	27B
PS&E	2026	82956-3594-04	27B



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND
PERM. DRG. ESMT.
E.C. BLANKET
PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
AND
COMMERCE
No. 130715
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

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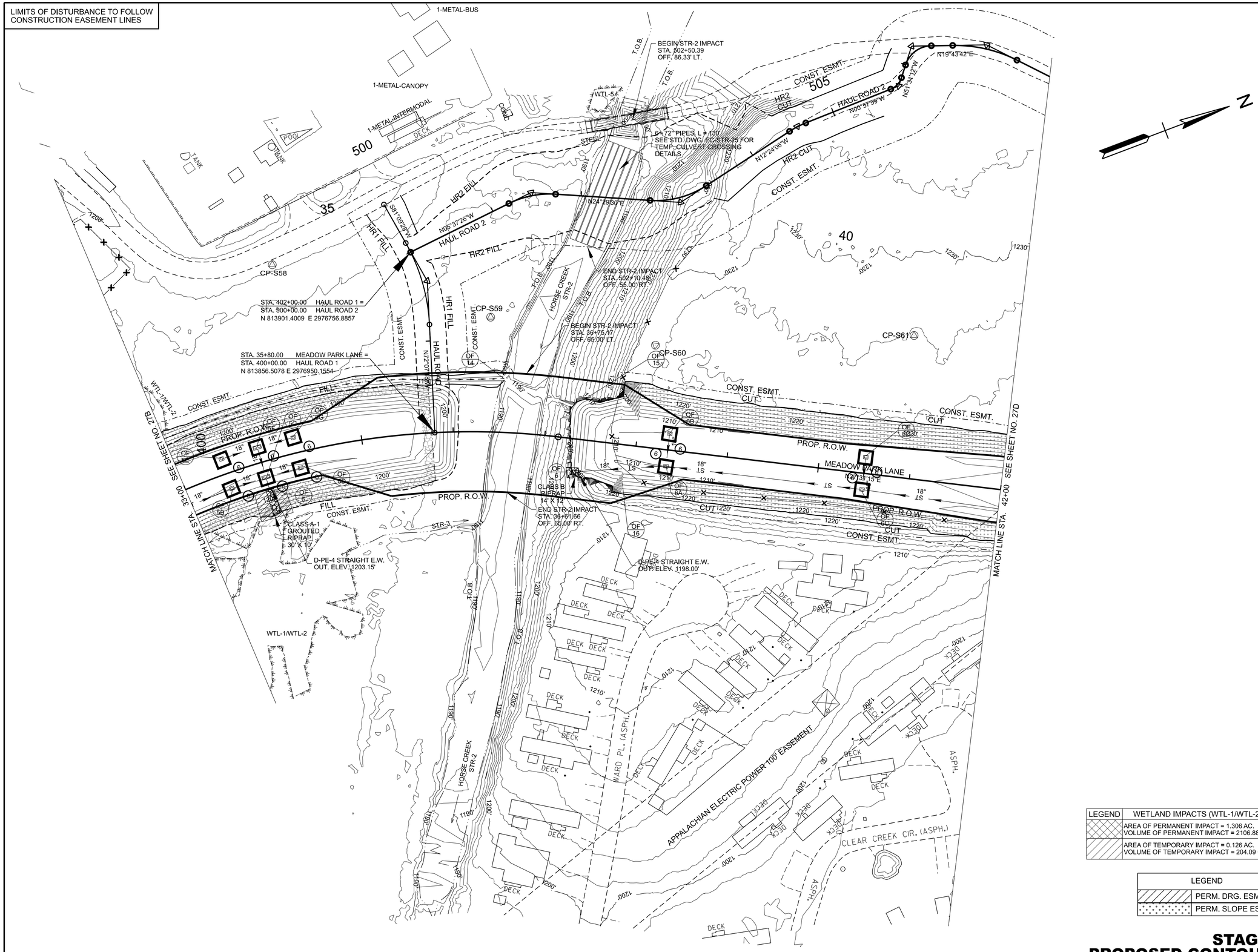
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27C
PIH	2026	82956-3594-04	27C
PS&E	2026	82956-3594-04	27C



LEGEND	WETLAND IMPACTS (WTL-1/WTL-2)
	AREA OF PERMANENT IMPACT = 1.306 AC. VOLUME OF PERMANENT IMPACT = 2106.88 C.Y.
	AREA OF TEMPORARY IMPACT = 0.126 AC. VOLUME OF TEMPORARY IMPACT = 204.09 C.Y.

LEGEND	
	PERM. DRG. ESMT.
	PERM. SLOPE ESMT.

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STAGE 3 PROPOSED CONTOURS

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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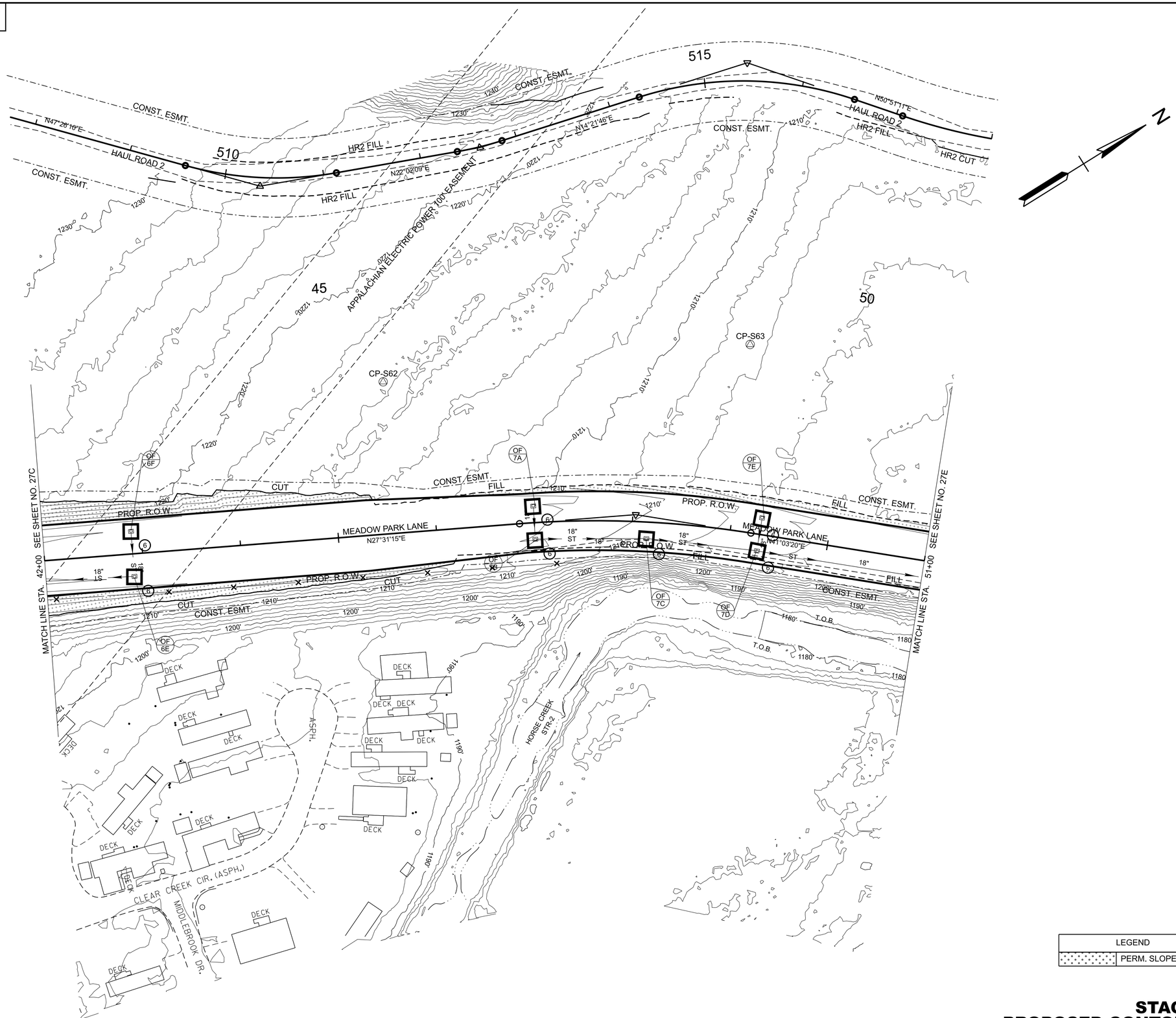
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27D
PIH	2026	82956-3594-04	27D
PS&E	2026	82956-3594-04	27D



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LEGEND	
	PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 136715
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

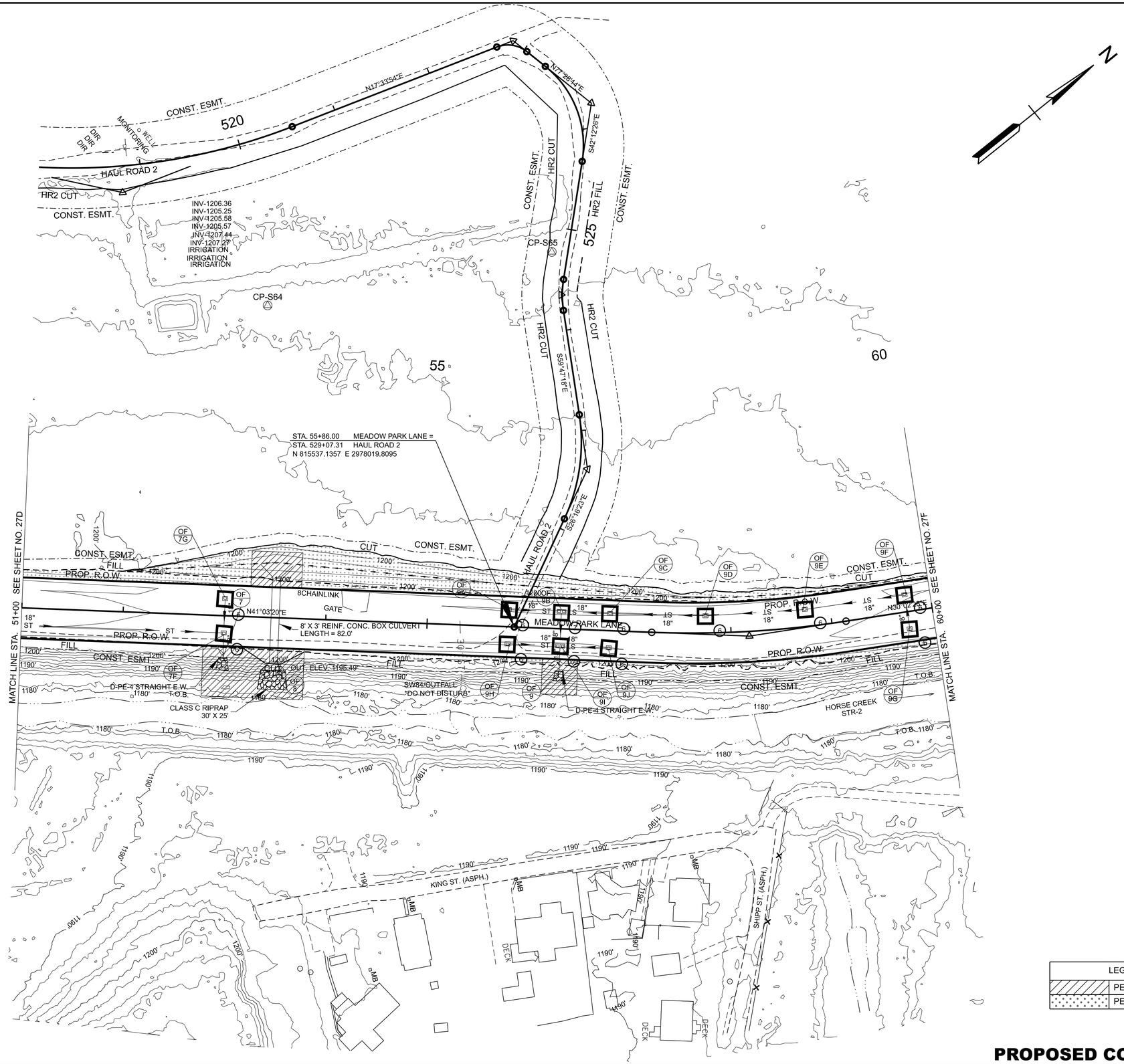
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27E
PIH	2026	82956-3594-04	27E
PS&E	2026	82956-3594-04	27E



LEGEND

	PERM. DRG. ESMT.
	PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

5/21/2026 9:37:32 AM
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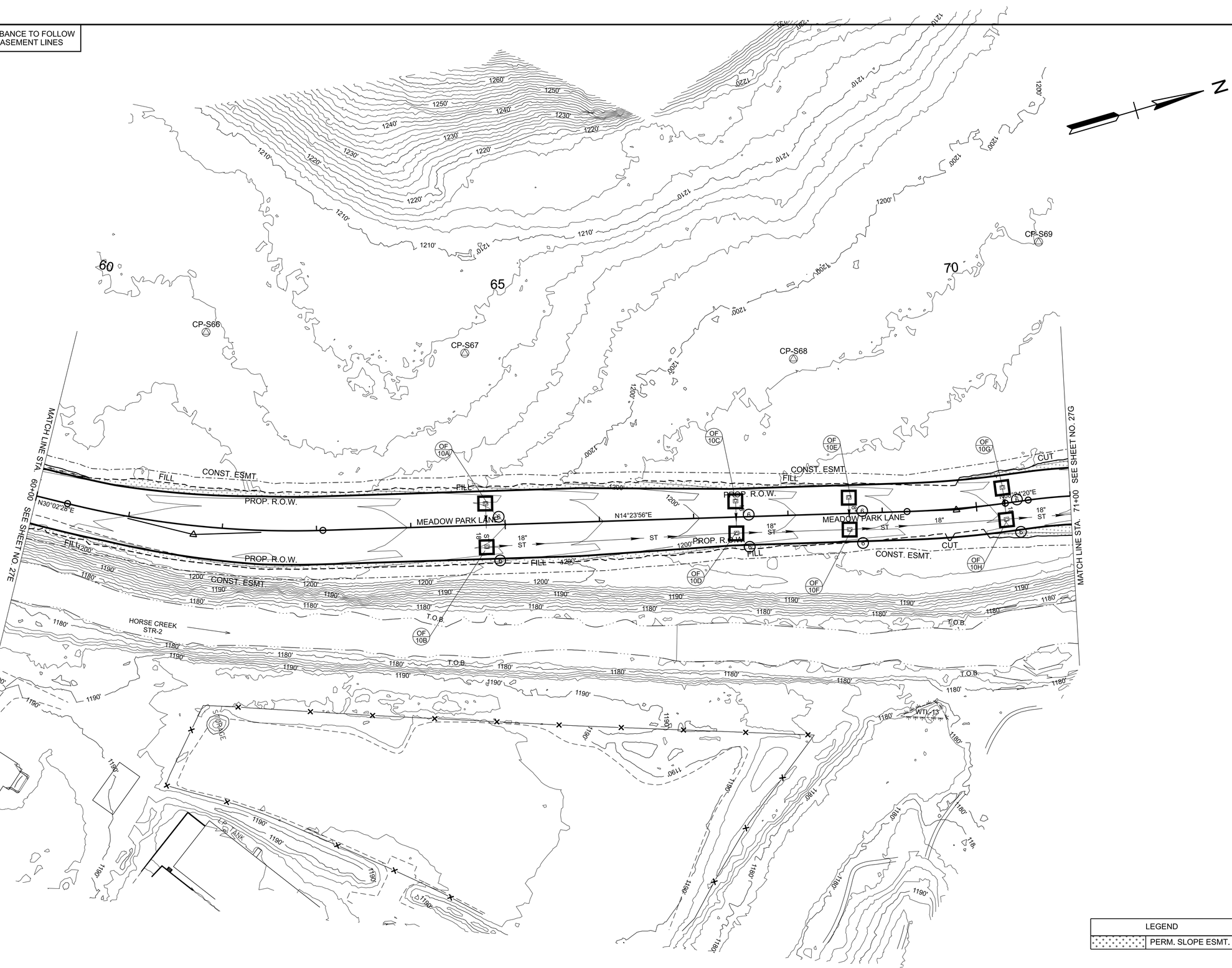
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27F
PIH	2026	82956-3594-04	27F
PS&E	2026	82956-3594-04	27F



LEGEND	
	PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

5/19/2026 3:34:25 PM
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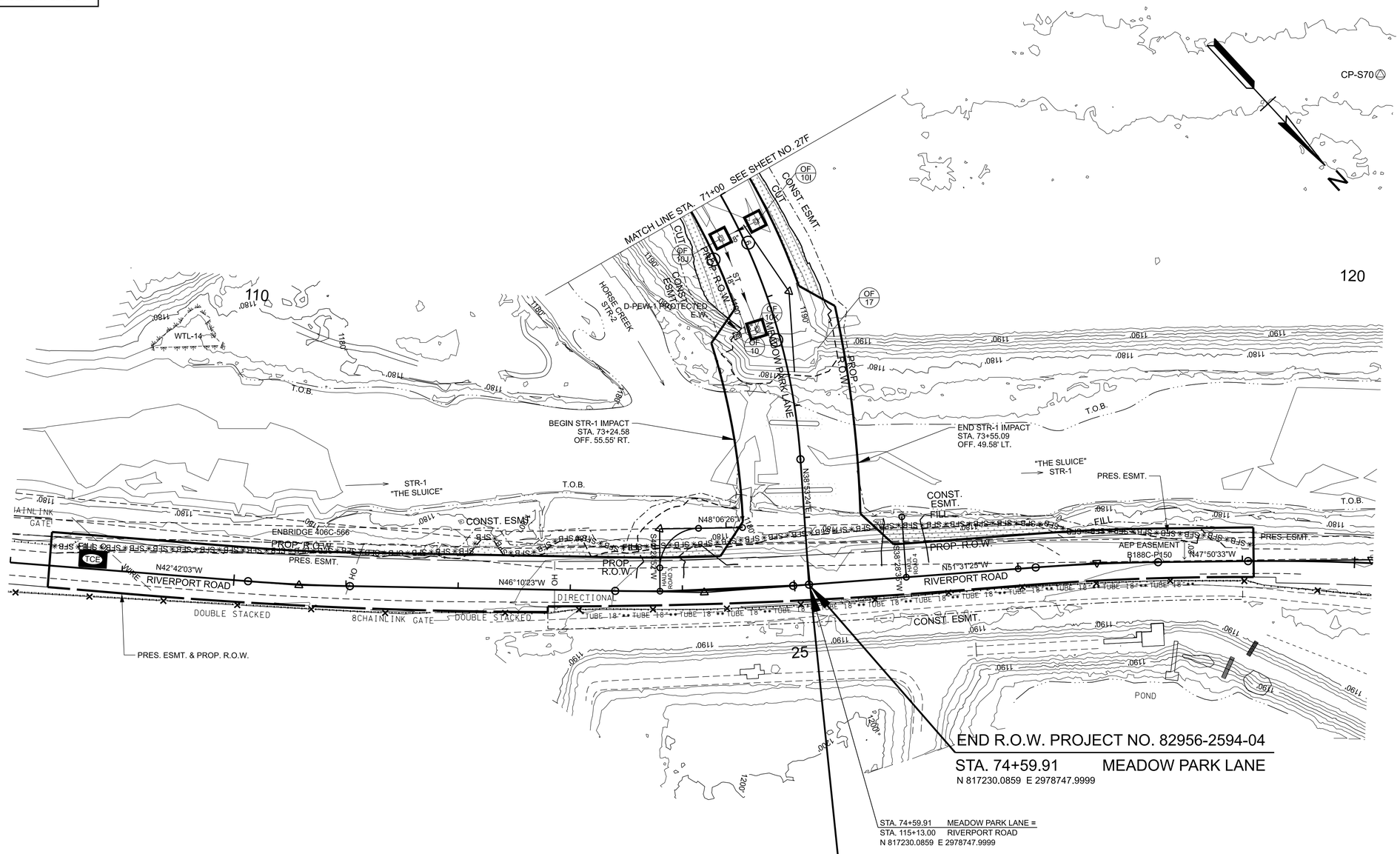
LIMITS OF DISTURBANCE TO FOLLOW CONSTRUCTION EASEMENT LINES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	27G
PIH	2026	82956-3594-04	27G
PS&E	2026	82956-3594-04	27G



END R.O.W. PROJECT NO. 82956-2594-04

STA. 74+59.91 MEADOW PARK LANE

N 817230.0859 E 2978747.9999

STA. 74+59.91 MEADOW PARK LANE =
STA. 115+13.00 RIVERPORT ROAD
N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04

STA. 74+35.91 MEADOW PARK LANE

N 817211.4044 E 2978732.9311

LEGEND	
	PERM. SLOPE ESMT.

STAGE 3
PROPOSED CONTOURS

SEALED BY

ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

5/21/2026 9:37:54 AM
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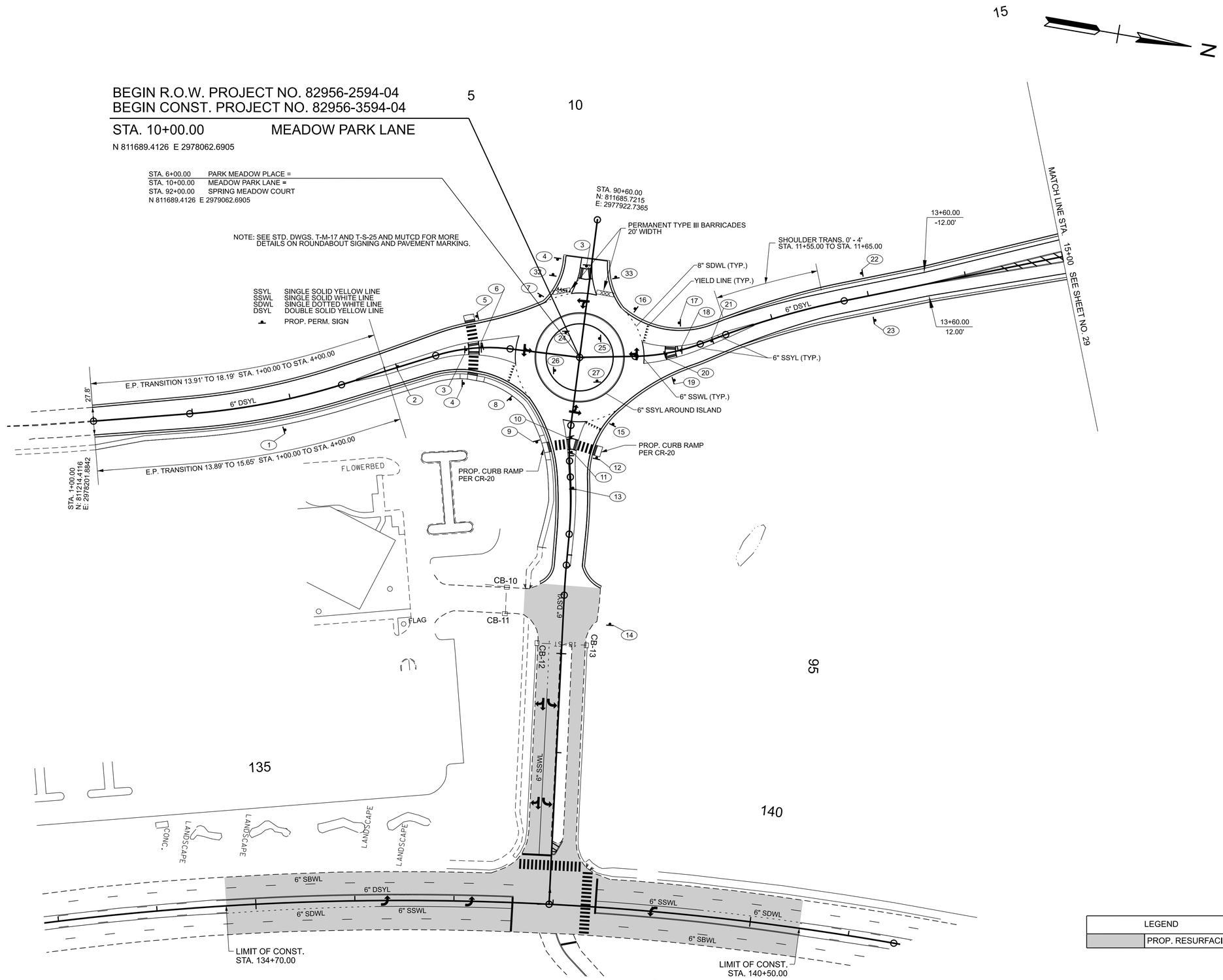
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	28
PIH	2026	82956-3594-04	28
PS&E	2026	82956-3594-04	28



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ANDREW WARREN
REGISTERED ENGINEER
MUNICIPAL/PUB COMMERCE
No. 130719
STATE OF TENNESSEE
5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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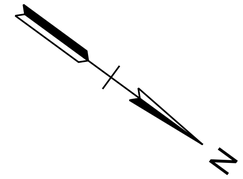
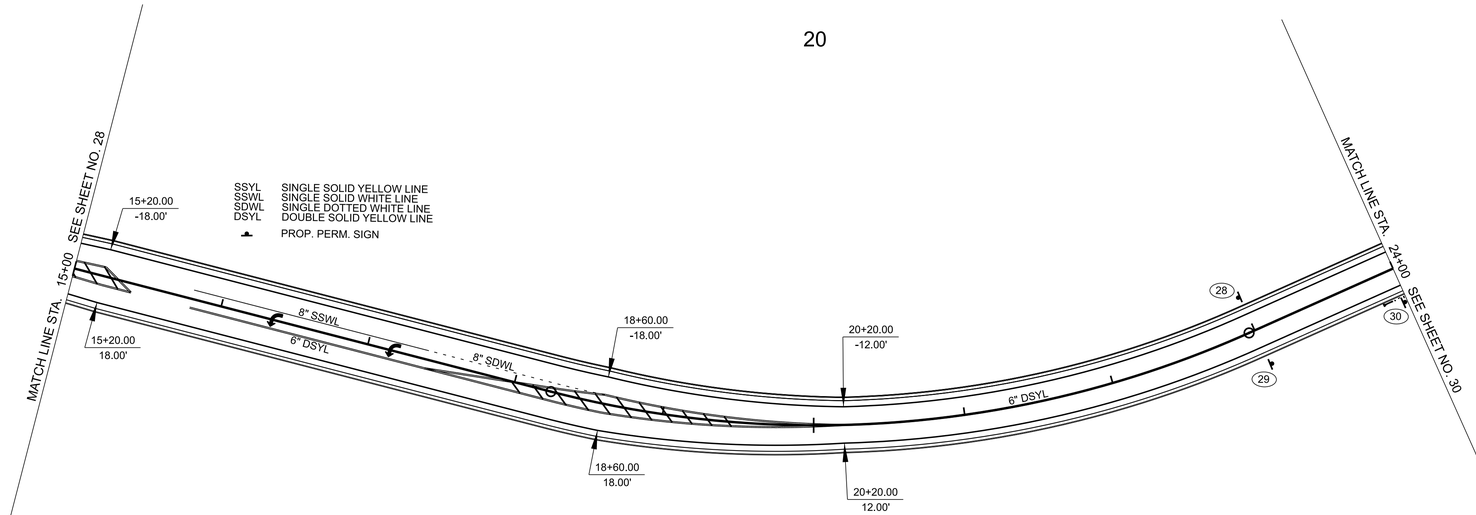
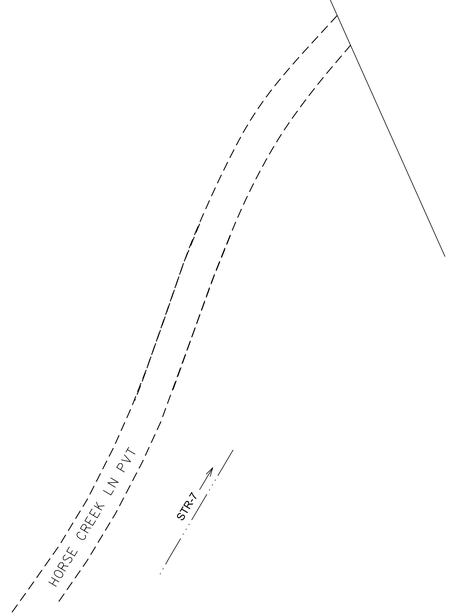
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	29
PIH	2026	82956-3594-04	29
PS&E	2026	82956-3594-04	29



15

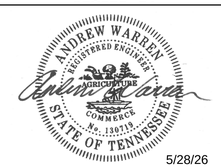
20





SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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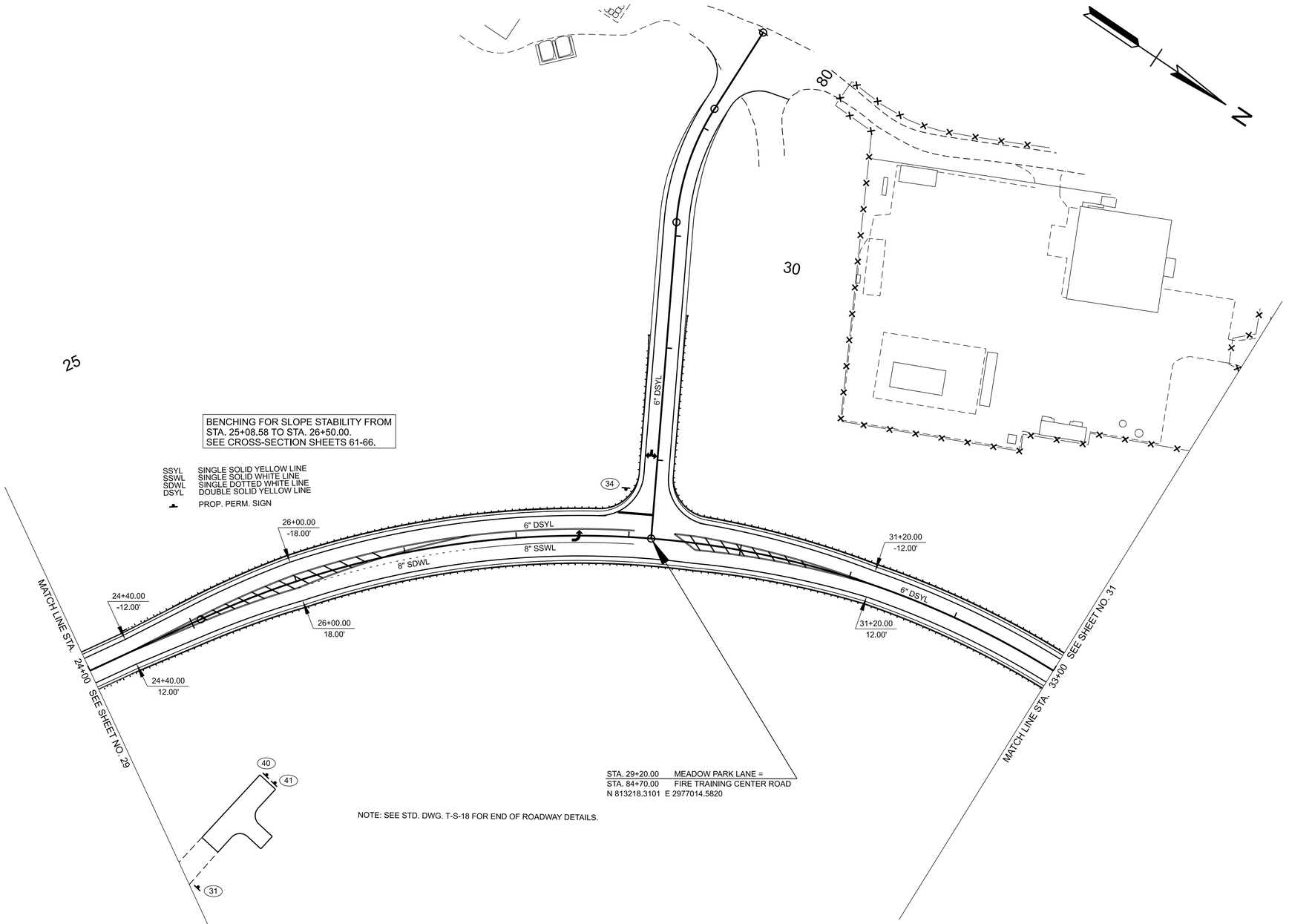
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	30
PIH	2026	82956-3594-04	30
PS&E	2026	82956-3594-04	30



SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

5/26/2026 11:40:55 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	31
PIH	2026	82956-3594-04	31
PS&E	2026	82956-3594-04	31

SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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COMMERCE
No. 130719
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

5/19/2026 3:35:28 PM
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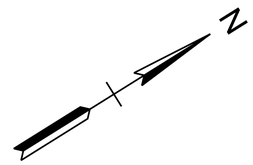
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	32
PIH	2026	82956-3594-04	32
PS&E	2026	82956-3594-04	32



45

50

SSYL SINGLE SOLID YELLOW LINE
SSWL SINGLE SOLID WHITE LINE
SDWL SINGLE DOTTED WHITE LINE
DSYL DOUBLE SOLID YELLOW LINE

PROP. PERM. SIGN

SEE SHEET NO. 31

MATCH LINE STA. 42+00

45+30.00
-18.00'

46+90.00
-12.00'

6" DSYL
8" SDWL
8" SSWL
6" DSYL
6" DSYL
6" DSYL

45+30.00
18.00'

46+90.00
12.00'

36

MATCH LINE STA. 51+00

SEE SHEET NO. 33

T.O.B.

T.O.B.

ASPH.

CLEAR CREEK CIR. (ASPH.)

MIDDLEBROOK DR.

SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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REGISTERED ENGINEER
PRINCIPAL
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

5/19/2026 3:35:31 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	33
PIH	2026	82956-3594-04	33
PS&E	2026	82956-3594-04	33

55

60

N

SSYL SINGLE SOLID YELLOW LINE
SSWL SINGLE SOLID WHITE LINE
SDWL SINGLE DOTTED WHITE LINE
DSYL DOUBLE SOLID YELLOW LINE
PROP. PERM. SIGN

SEE SHEET NO. 32

MATCH LINE STA. 51+00

6" DSYL

MATCH LINE STA. 60+00

SEE SHEET NO. 34

6" DSYL

T.O.B.

T.O.B.

T.O.B.

T.O.B.

KING ST. (ASPH.)

SHIPP ST. (ASPH.)

cMB

cMB

cMB

cMB

SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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AGRICULTURE
COMMERCE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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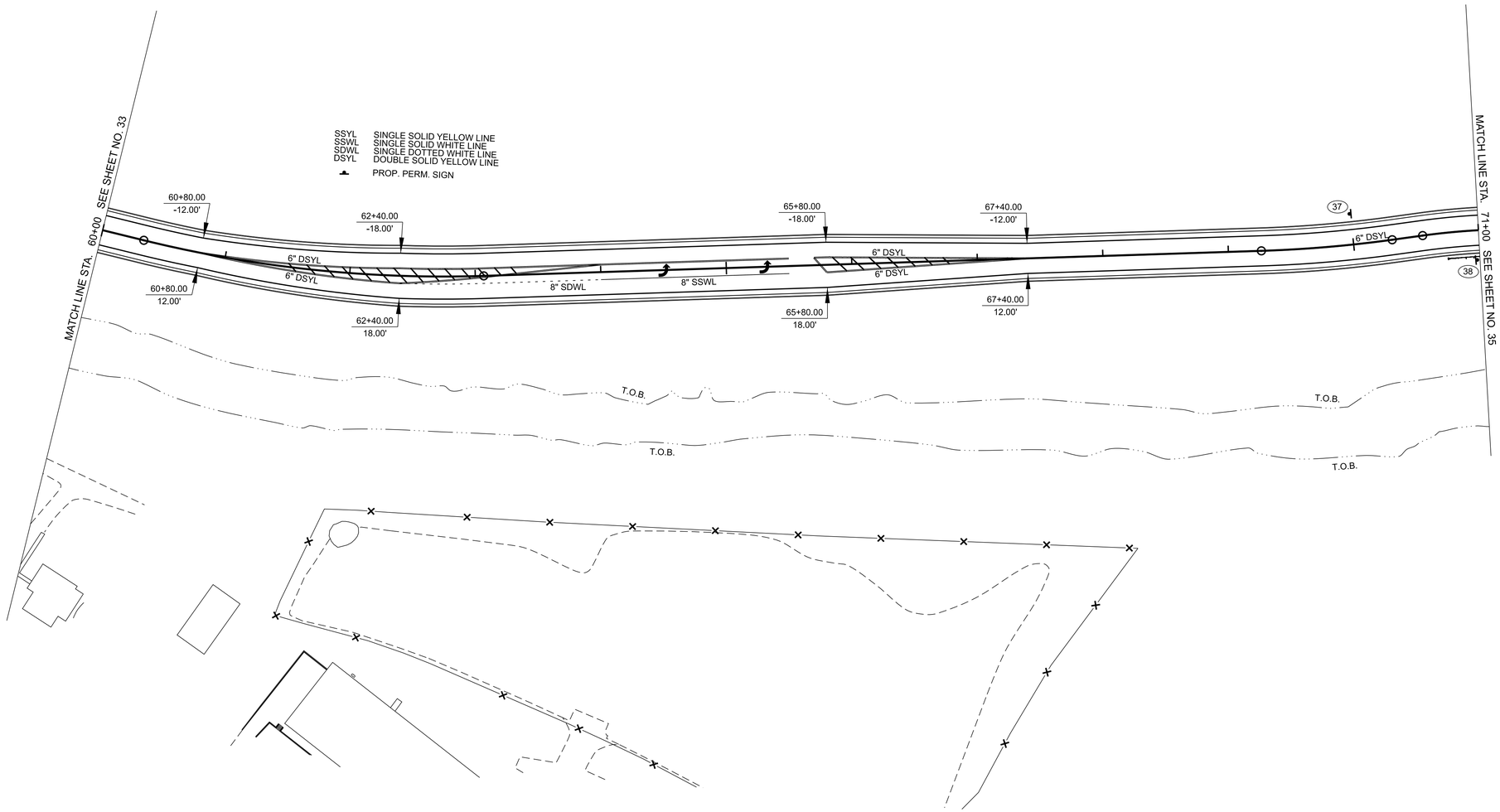
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	34
PIH	2026	82956-3594-04	34
PS&E	2026	82956-3594-04	34

60

65

70



SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

5/19/2026 3:35:35 PM
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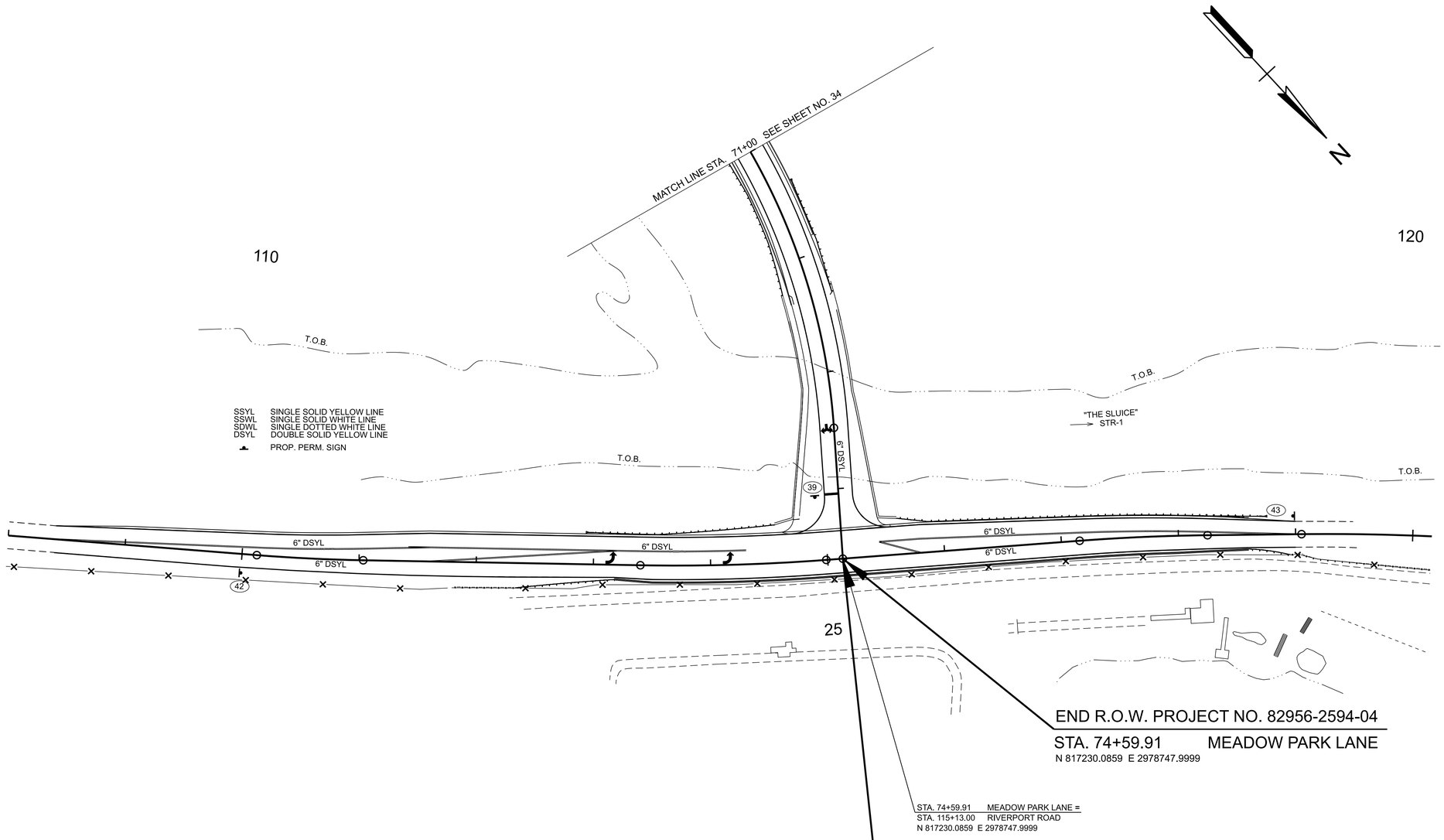
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	35
PIH	2026	82956-3594-04	35
PS&E	2026	82956-3594-04	35



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COMMERCE
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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 71+00 TO STA. 74+59.91
SCALE: 1" = 50'

SEE SHEET NOS. 36 - 38 FOR SIGN SCHEDULE

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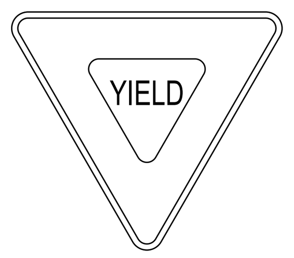
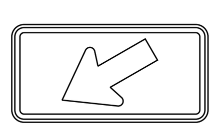
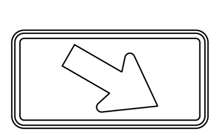
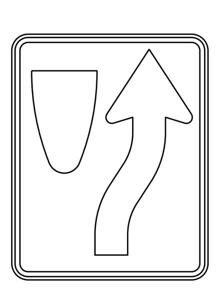
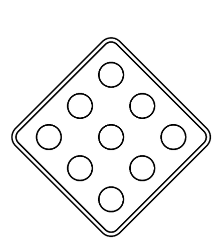
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	36
PS&E	2026	82956-3594-04	36

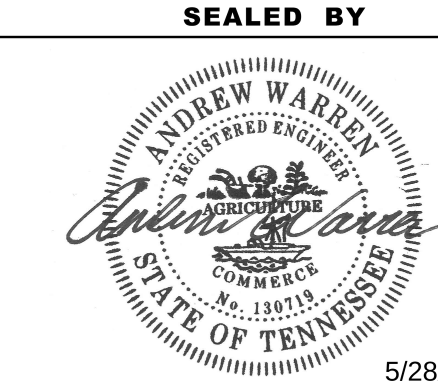
ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

THE FOLLOWING STANDARD DRAWINGS APPLY UNLESS OTHERWISE NOTED IN THE REMARKS: FLAT SHEET (T-S SERIES 10, 12, 16, 17, 19, 20); EXTRUDED PANEL (T-S SERIES 6, 9, 13, 14); WALL/BARRIER MOUNTED (T-S-21), MULTI-DIRECTIONAL BASE (T-S SERIES 23A, 23B, 23C)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
7 8 15 16	 R1-2	28 28 28 28	36" X 36" x 36"										RED (REF)	WHITE (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-6"				7'-0"	
24 25 26 27	R6-1R	28 28 28 28	36"	12"									BLACK	WHITE (REF)	0.080" SHEET ALUMINUM	U6	H = 12'-6"				7'-0"	
3 4 5 6 9 10 11 12 17 18 19 20	W11-2	28 28 28 28 28 28 28 28 28 28 28 28	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 14'-6"				7'-0"	CONTRACTOR TO INSTALL ITEM 713-02.21 SIGN POST DELINEATION ENHANCEMENT.
4 5 9 12 17 19	 W16-7P	28 28 28 28 28 28	21"	15"									BLACK	YELLOW- (REF)	0.080" SHEET ALUMINUM							TO BE INSTALLED WITH W11-2 SIGNS
3 6 10 11 18 20	 W16-7P	28 28 28 28 28 28	21"	15"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM							TO BE INSTALLED WITH W11-2 SIGNS
2 13 21	 R4-7	28 28 28	24"	30"									BLACK	WHITE (REF)	0.080" SHEET ALUMINUM	U6	H = 14'-6"				7'-0"	CONTRACTOR TO INSTALL ITEM 713-02.21 SIGN POST DELINEATION ENHANCEMENT.
2 13 21	 OM1-1	28 28 28	18"	18"									YELLOW	YELLOW (REF)	0.080" SHEET ALUMINUM							TO BE INSTALLED WITH R4-7 SIGNS

SEALED BY



5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

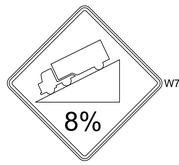
SIGN
SCHEDULE
SHEETS

5/19/2026 3:35:44 PM

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

THE FOLLOWING STANDARD DRAWINGS APPLY UNLESS OTHERWISE NOTED IN THE REMARKS: FLAT SHEET (T-S SERIES 10, 12, 16, 17, 19, 20); EXTRUDED PANEL (T-S SERIES 6, 9, 13, 14); WALL/BARRIER MOUNTED (T-S-21), MULTI-DIRECTIONAL BASE (T-S SERIES 23A, 23B, 23C)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
(1) (14) (22)	W2-6	28 28 28	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 14'-6"				7'-0"	
(1) (14) (22)	W13-1P	28 28 28	18"	18"									BLACK	WHITE (REF)	0.080" SHEET ALUMINUM							
(23) (28) (36) (37)	R2-1	28 29 32 34	24"	30"									BLACK	WHITE (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	
(29)	 W7-1A	29	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	
(30)	W1-2	29	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	
(31)	W14-1	30	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	
(34) (39)	R1-1	30 35	36"	36"									WHITE (REF)	RED (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	37
PS&E	2026	82956-3594-04	37

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5/28/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE SHEETS

5/19/2026 3:35:45 PM $$$$DGNSPEC$$$$

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SEE STD. DWG. NO. T-S-19

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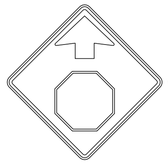
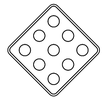
SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
(35)	W1-2	35	36"	36"									BLACK	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	
(38)	 W3-1	34	36"	36"									BLACK/ RED	YELLOW (REF)	0.080" SHEET ALUMINUM	P8	H = 13'-0"				7'-0"	CONTRACTOR TO INSTALL ITEM 713-02.21 SIGN POST DELINEATION ENHANCEMENT.
(32) (33) (40) (41)	 OM4-1	28 28 30 30	18"	18"									RED	RED	0.080" SHEET ALUMINUM	U3	H = 10'-0"					
(42)	W2-2L	35	36"	36"									BLACK	YELLOW	0.080" SHEET ALUMINUM	P8	H = 13'-6"					
(43)	W2-2R	35	36"	36"									BLACK	YELLOW	0.080" SHEET ALUMINUM	P8	H = 13'-6"					
	R11-2	28	48"	30"									BLACK	WHITE	0.080" SHEET ALUMINUM							TO BE MOUNTED ON METAL BARRICADE (TYPE III)
(7) (8) (15) (16)	R6-5P	28	30"	30"									BLACK	WHITE	0.080" SHEET ALUMINUM							TO BE MOUNTED UNDERNEATH R1-2 YIELD SIGNS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	38
PS&E	2026	82956-3594-04	38

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE SHEETS

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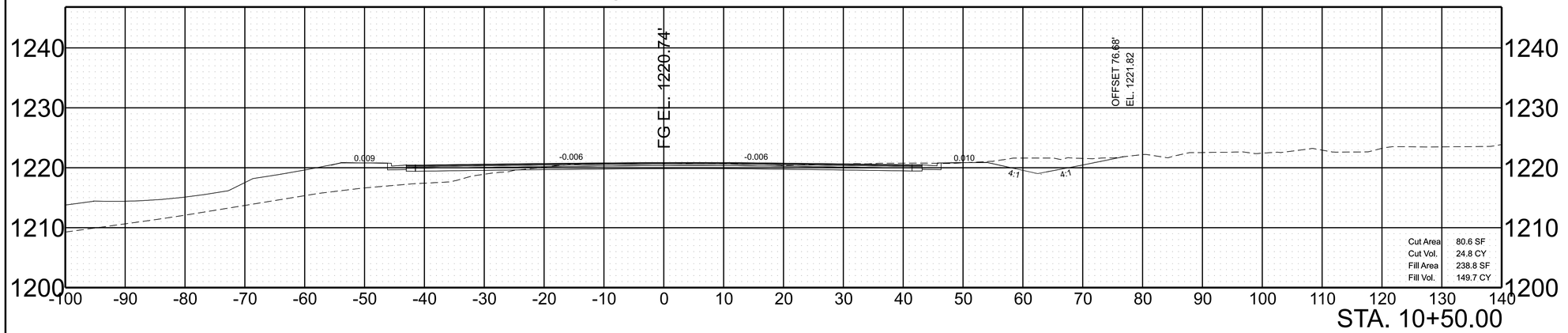
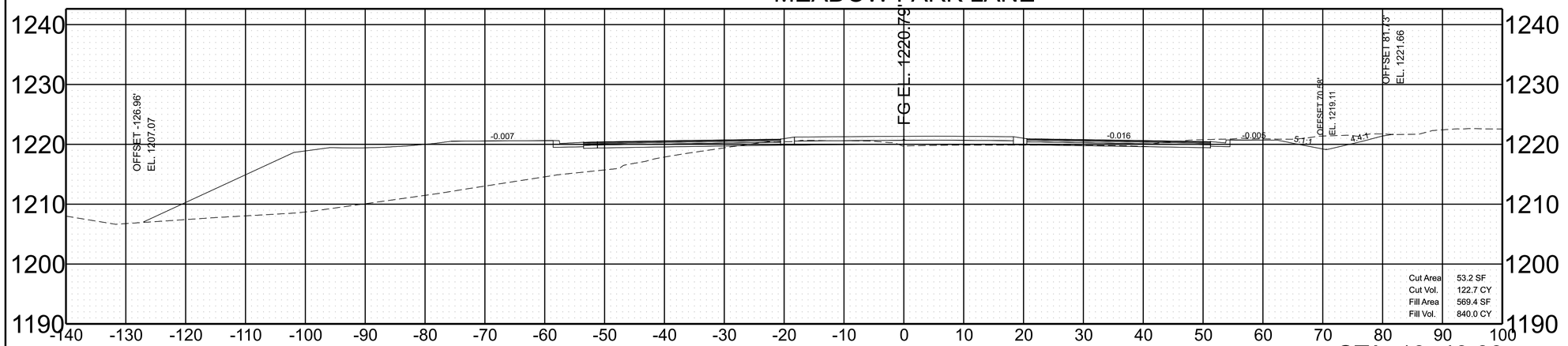
$$$$DGNPECS$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	36
PIH	2026	82956-3594-04	39
PS&E	2026	82956-3594-04	39

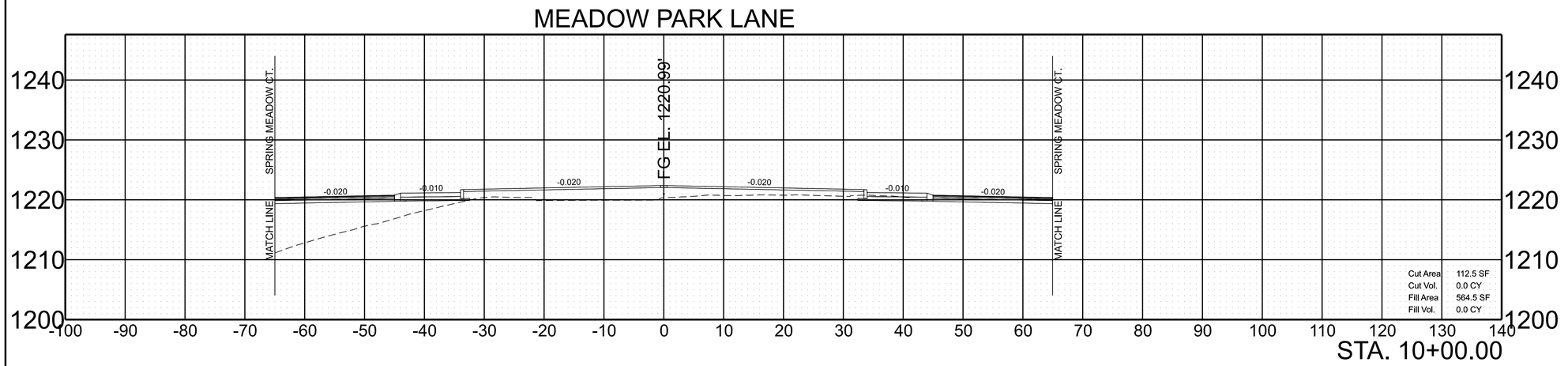
MEADOW PARK LANE



MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 10+00.00 END STA. 10+50.00

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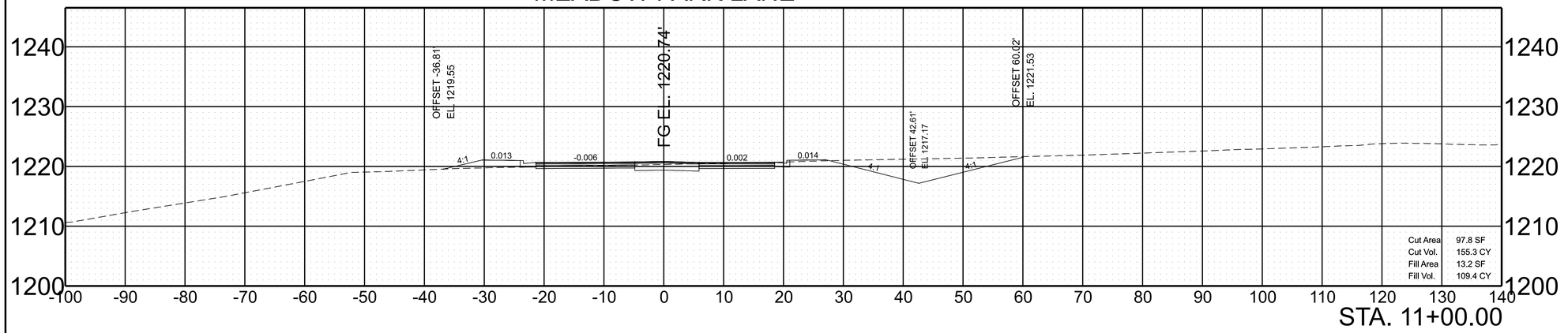
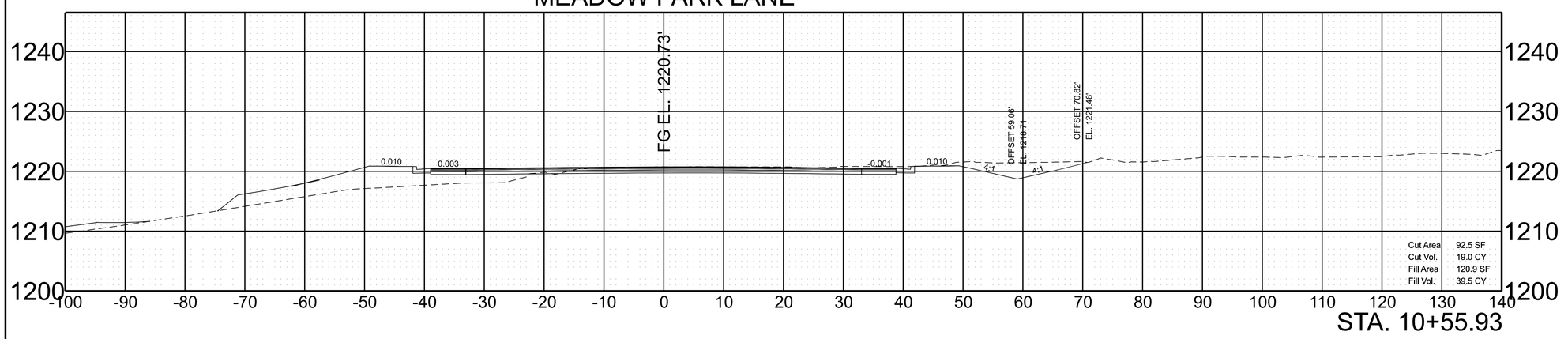
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	37
PIH	2026	82956-3594-04	40
PS&E	2026	82956-3594-04	40

MEADOW PARK LANE



STA. 11+00.00

MEADOW PARK LANE



STA. 10+55.93

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 10+55.93 END STA. 11+00.00

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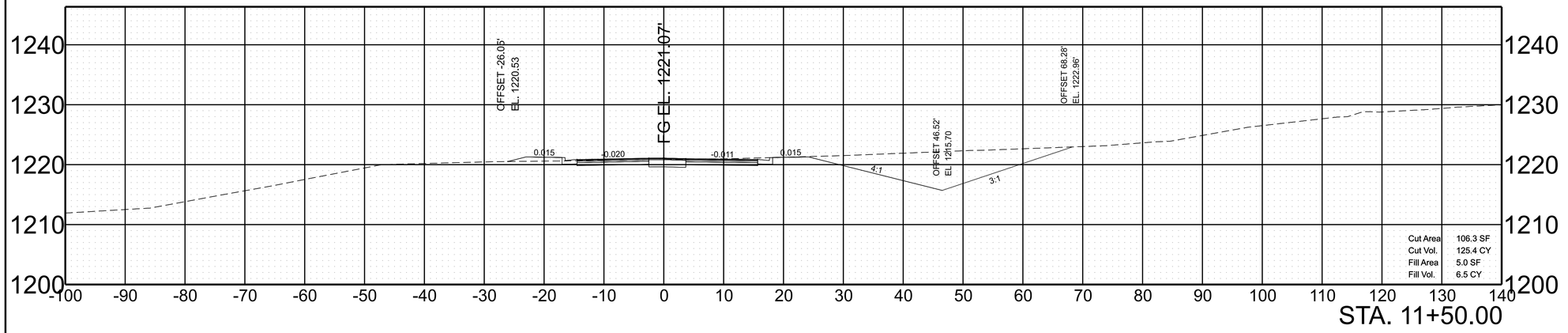
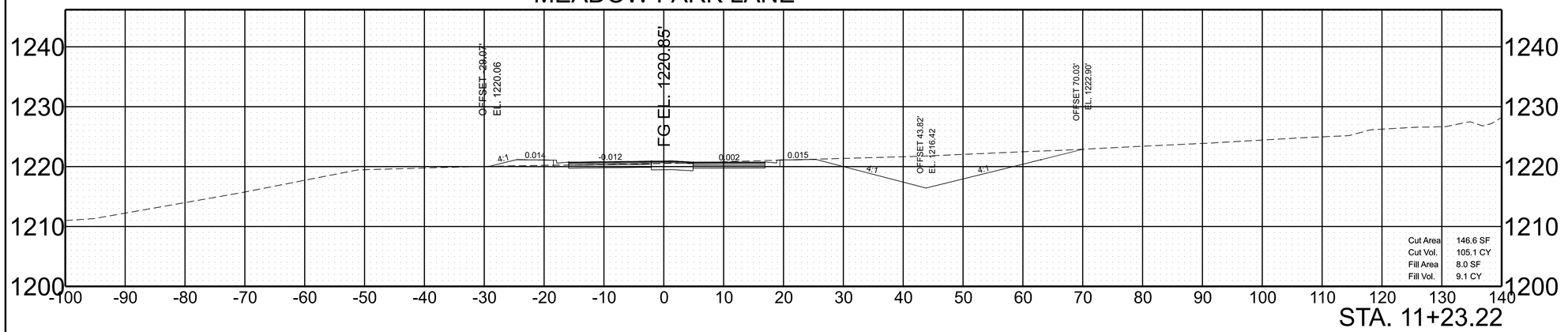
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	38
PIH	2026	82956-3594-04	41
PS&E	2026	82956-3594-04	41

MEADOW PARK LANE



STA. 11+50.00

MEADOW PARK LANE



STA. 11+23.22

SCALE:	1"=10' HORIZ.	BEGIN STA. 11+23.22
	1"=10' VERT.	END STA. 11+50.00

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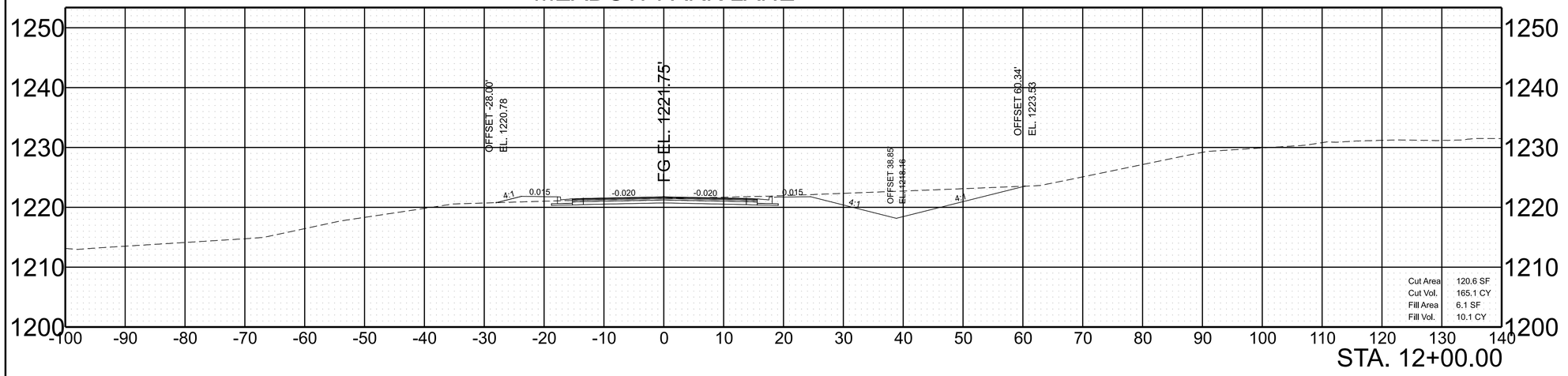
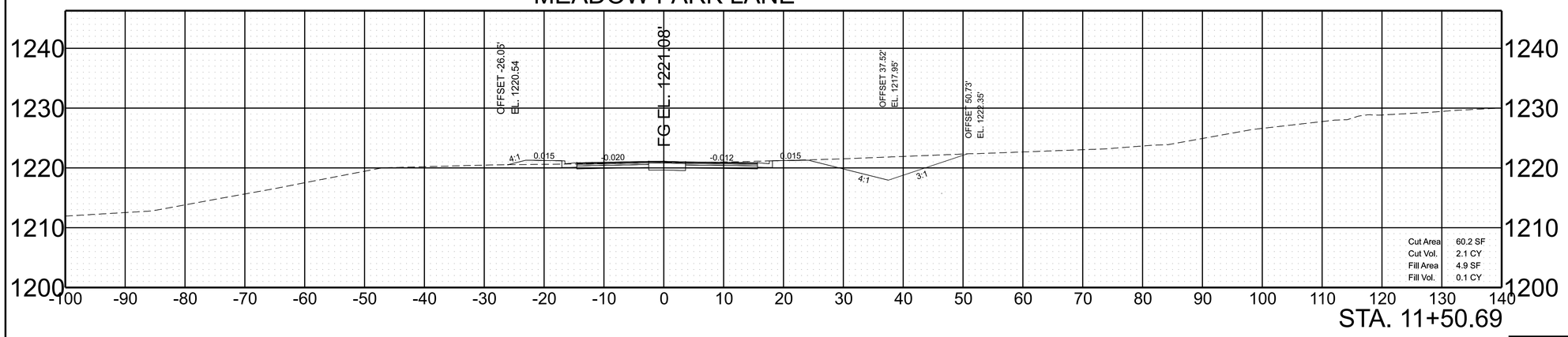
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	39
PIH	2026	82956-3594-04	42
PS&E	2026	82956-3594-04	42

MEADOW PARK LANE



STA. 12+00.00

MEADOW PARK LANE



STA. 11+50.69

SCALE:	1"=10' HORIZ.	BEGIN STA. 11+50.69
	1"=10' VERT.	END STA. 12+00.00

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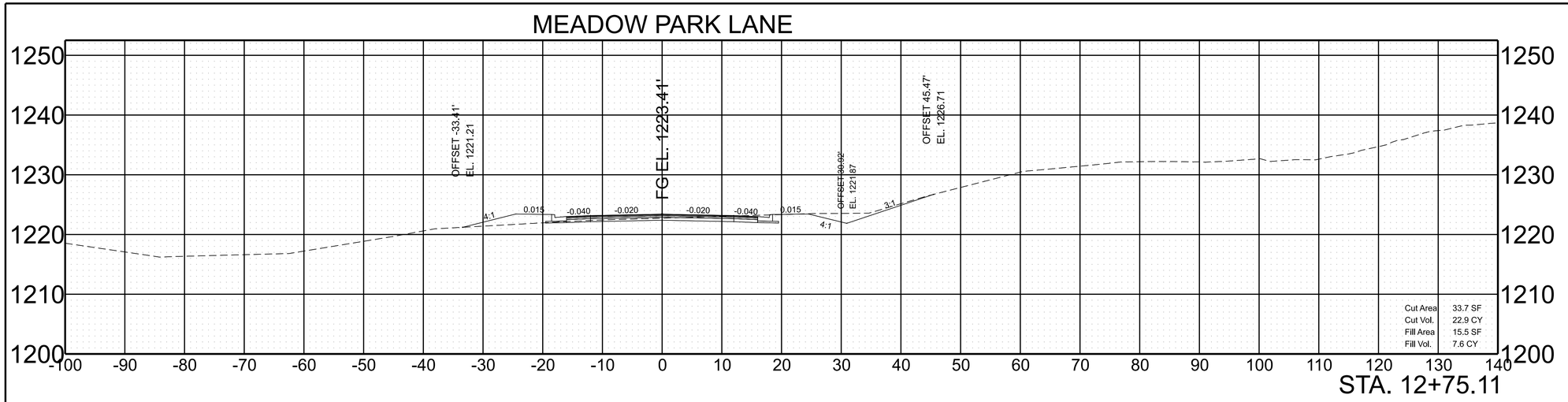
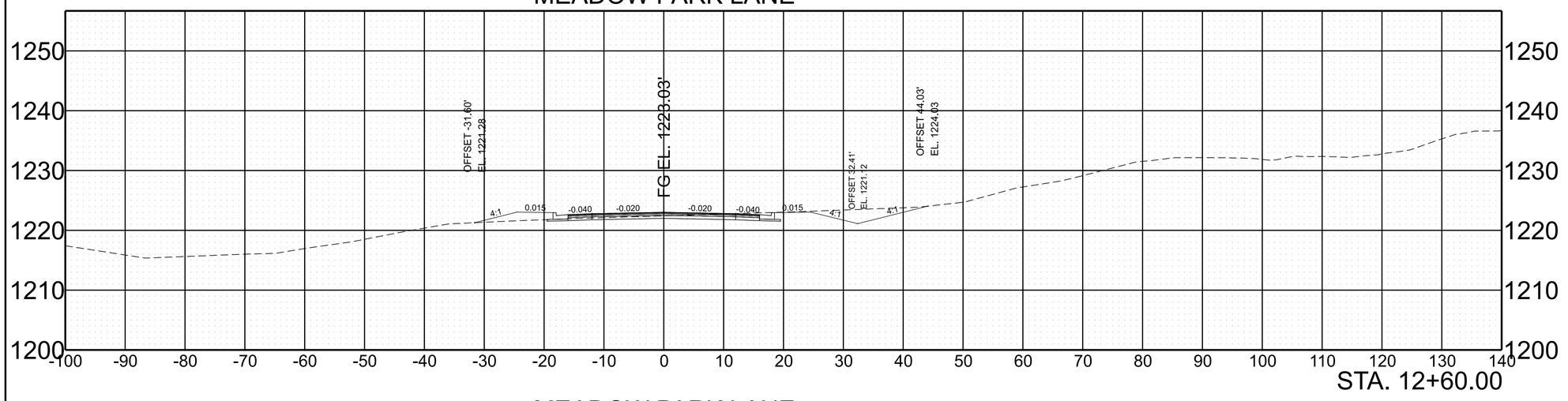
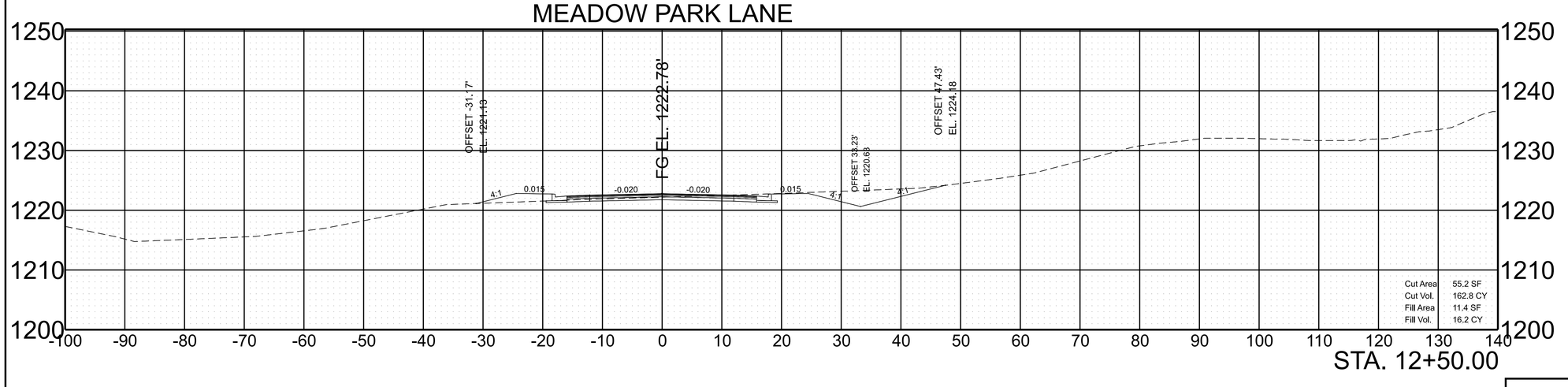
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	40
PIH	2026	82956-3594-04	43
PS&E	2026	82956-3594-04	43







SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 12+50.00 END STA. 12+75.11

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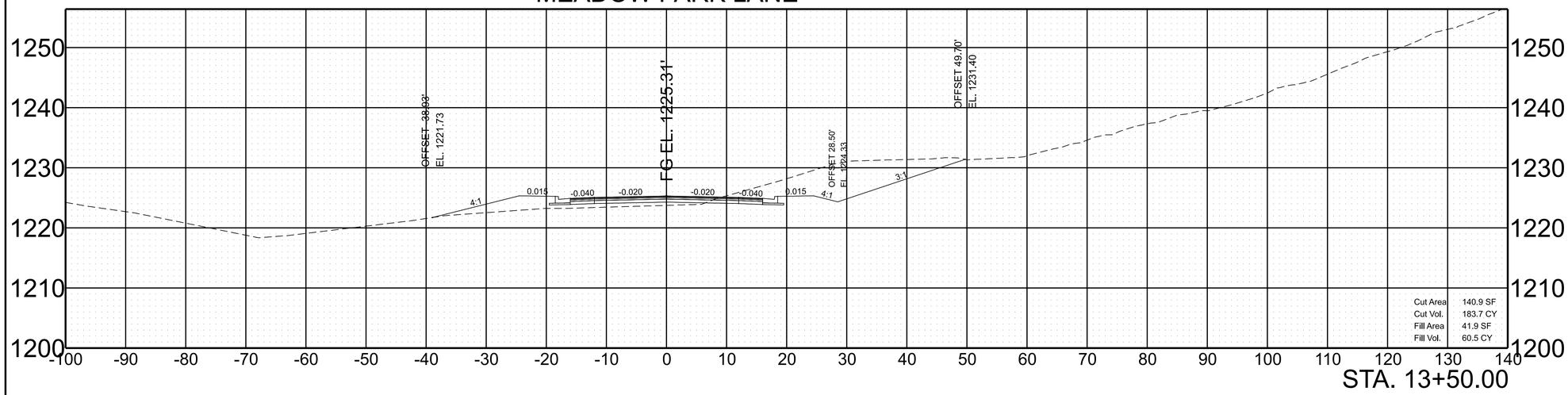
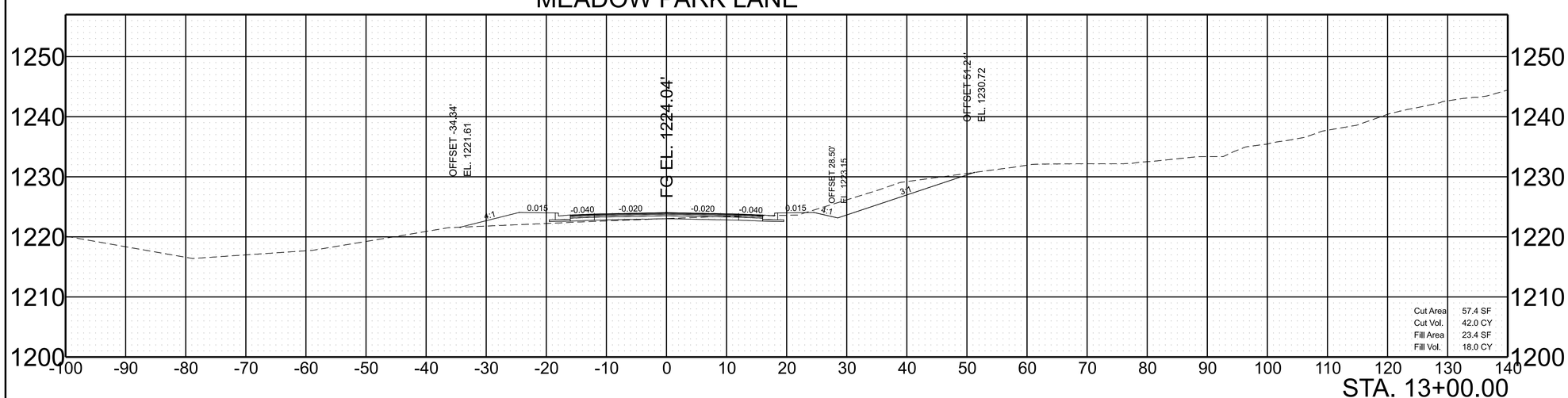
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	41
PIH	2026	82956-3594-04	44
PS&E	2026	82956-3594-04	44

MEADOW PARK LANE



STA. 13+50.00

MEADOW PARK LANE



STA. 13+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 13+00.00
	1"=10' VERT.	END STA. 13+50.00

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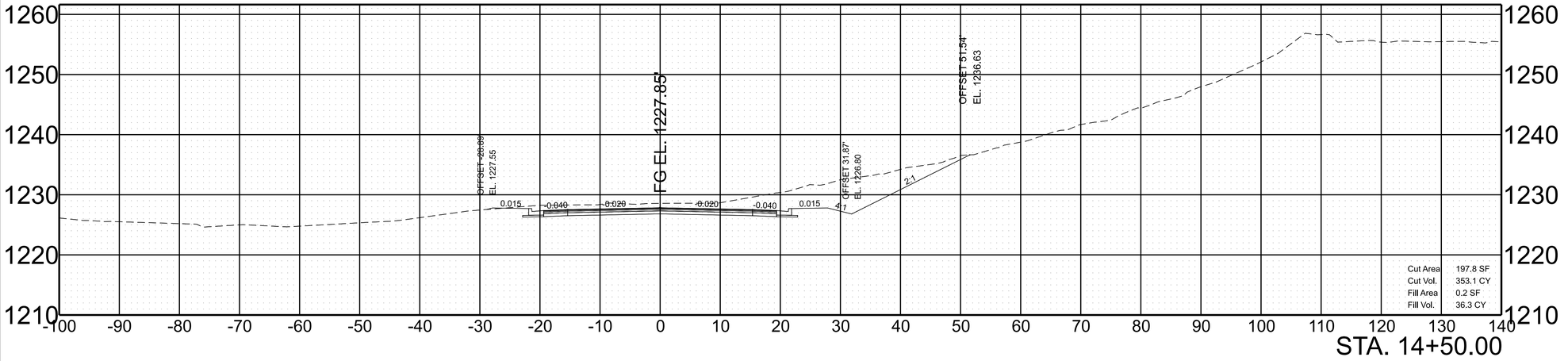
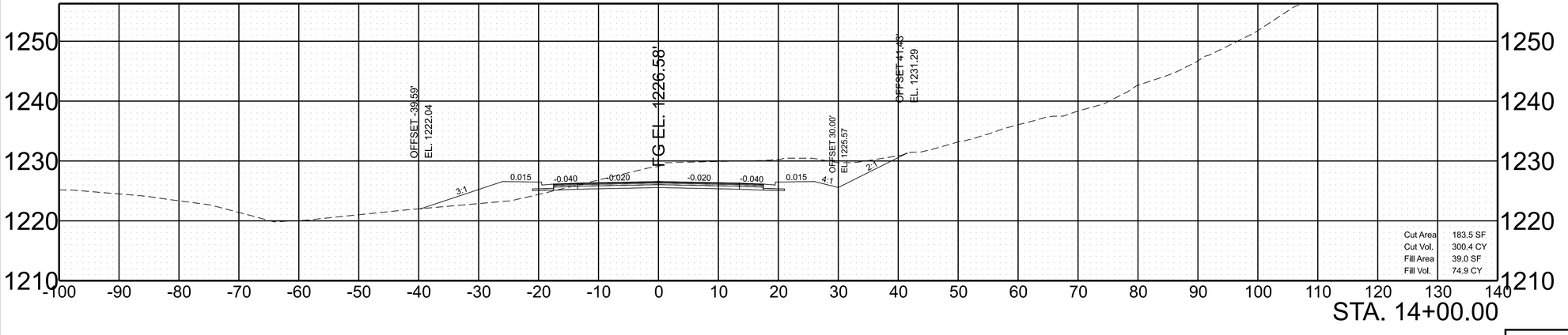
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	42
PIH	2026	82956-3594-04	45
PS&E	2026	82956-3594-04	45

MEADOW PARK LANE



STA. 14+50.00

MEADOW PARK LANE



STA. 14+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 14+00.00
	1"=10' VERT.	END STA. 14+50.00

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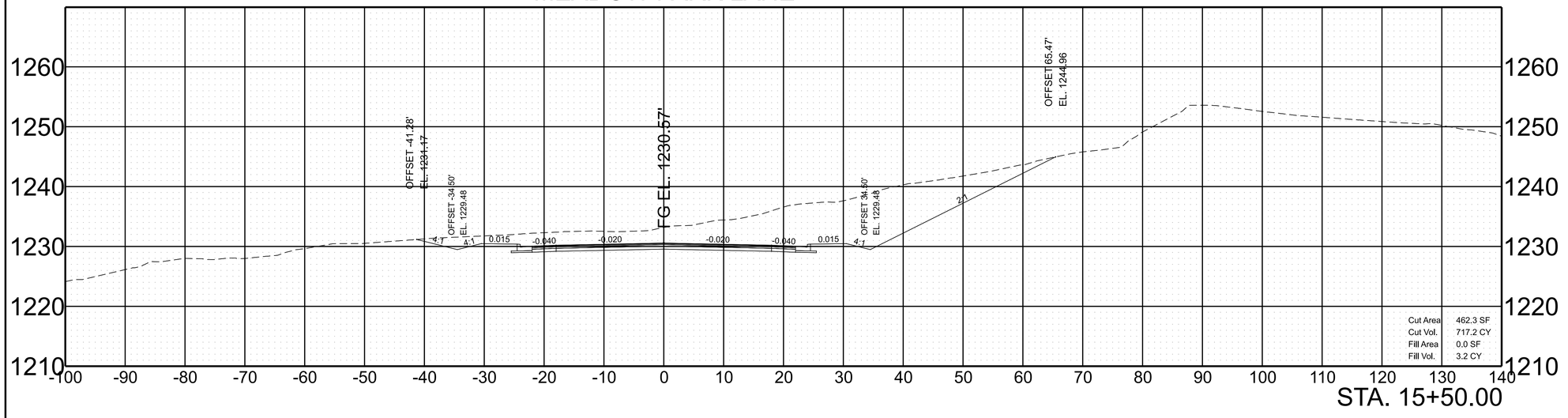
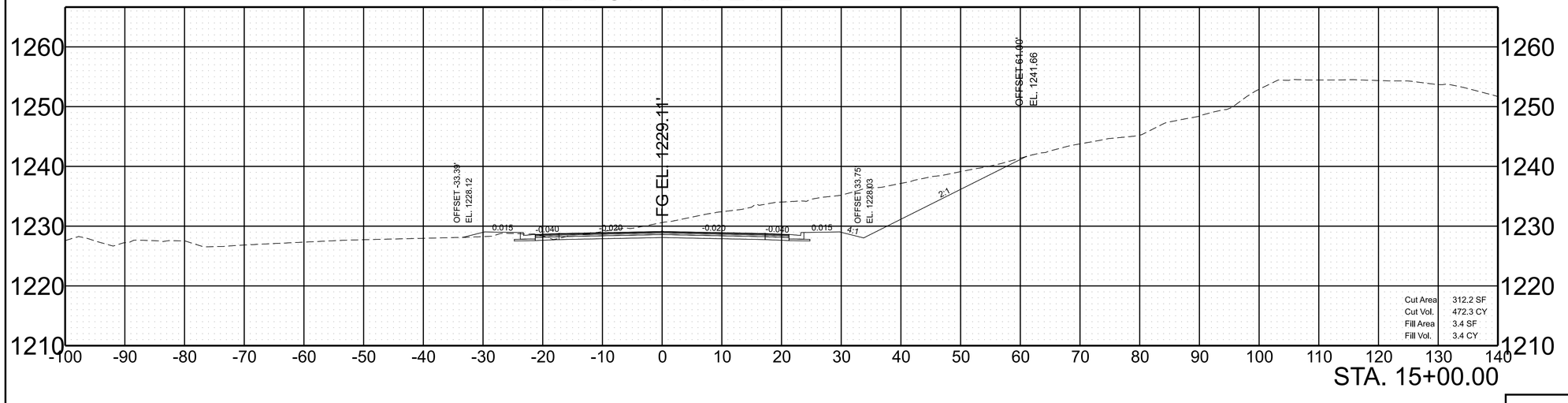
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	43
PIH	2026	82956-3594-04	46
PS&E	2026	82956-3594-04	46

MEADOW PARK LANE



STA. 15+50.00

MEADOW PARK LANE



STA. 15+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 15+00.00
	1"=10' VERT.	END STA. 15+50.00

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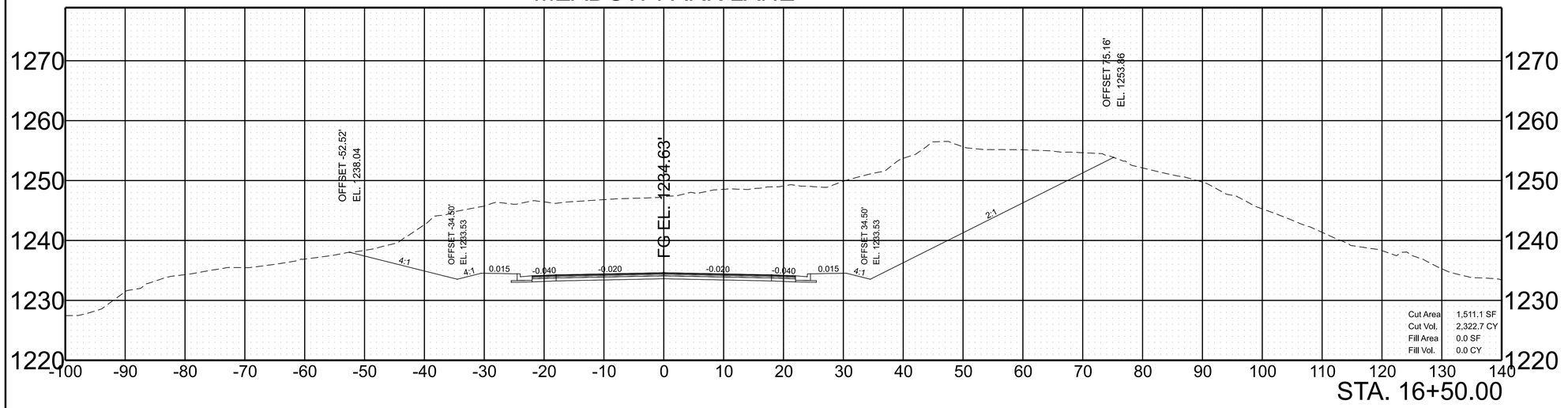
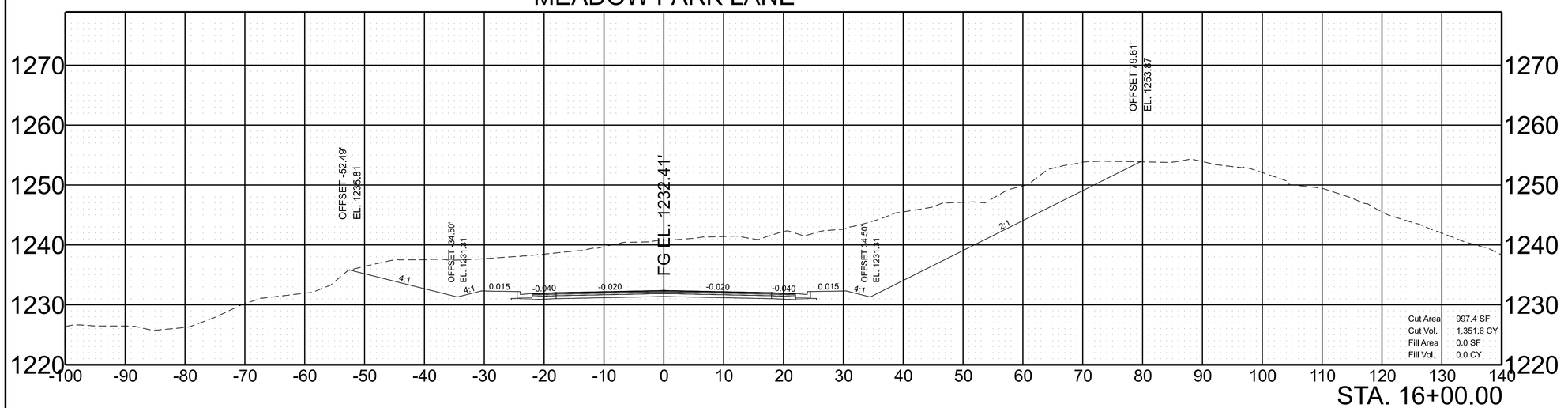
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	44
PIH	2026	82956-3594-04	47
PS&E	2026	82956-3594-04	47

MEADOW PARK LANE



STA. 16+50.00

MEADOW PARK LANE



STA. 16+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 16+00.00
	1"=10' VERT.	END STA. 16+50.00

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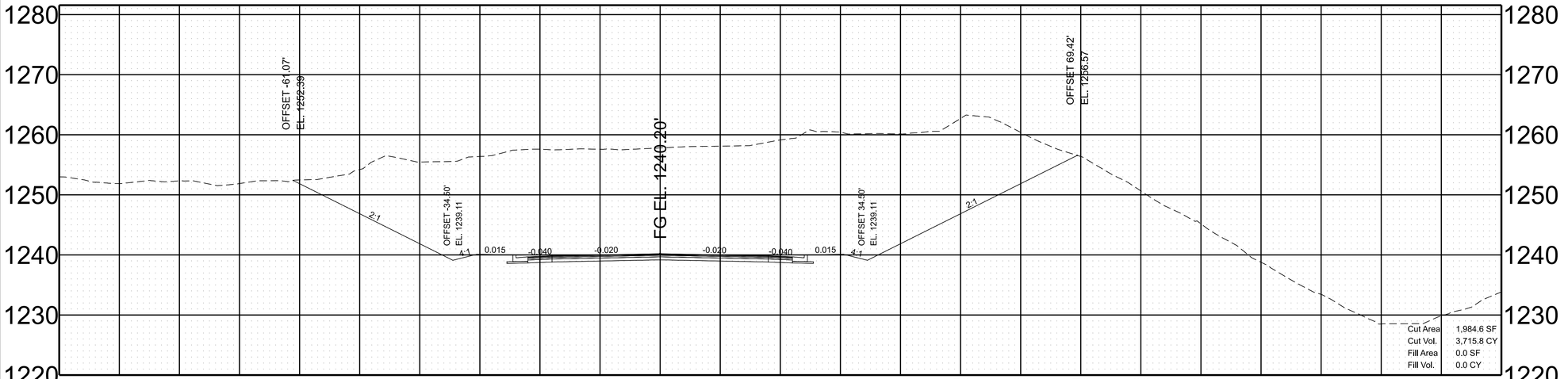
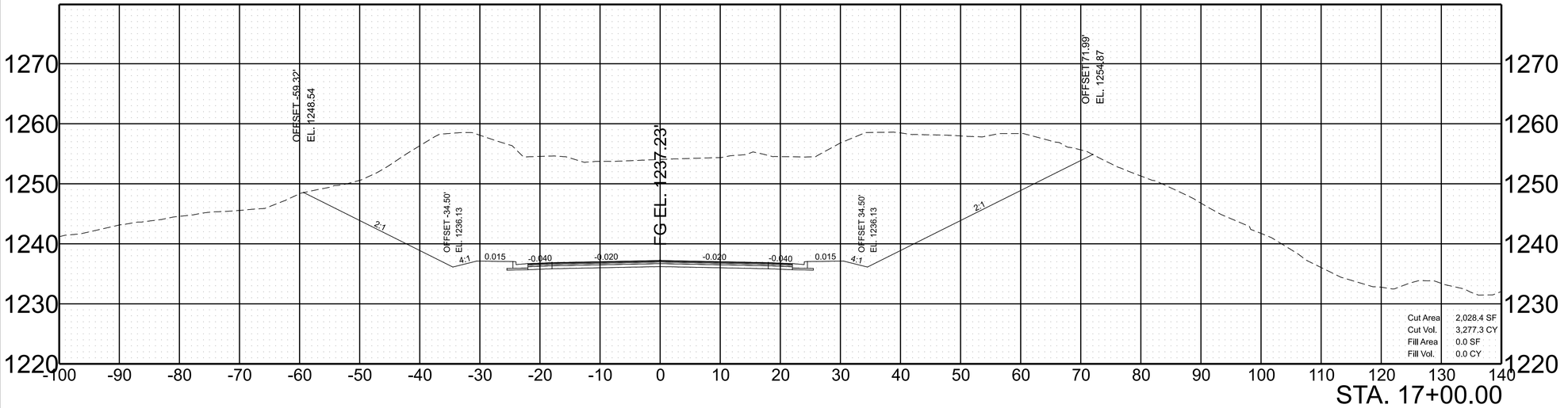
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	45
PIH	2026	82956-3594-04	48
PS&E	2026	82956-3594-04	48

MEADOW PARK LANE



STA. 17+50.00

MEADOW PARK LANE



STA. 17+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 17+00.00 END STA. 17+50.00

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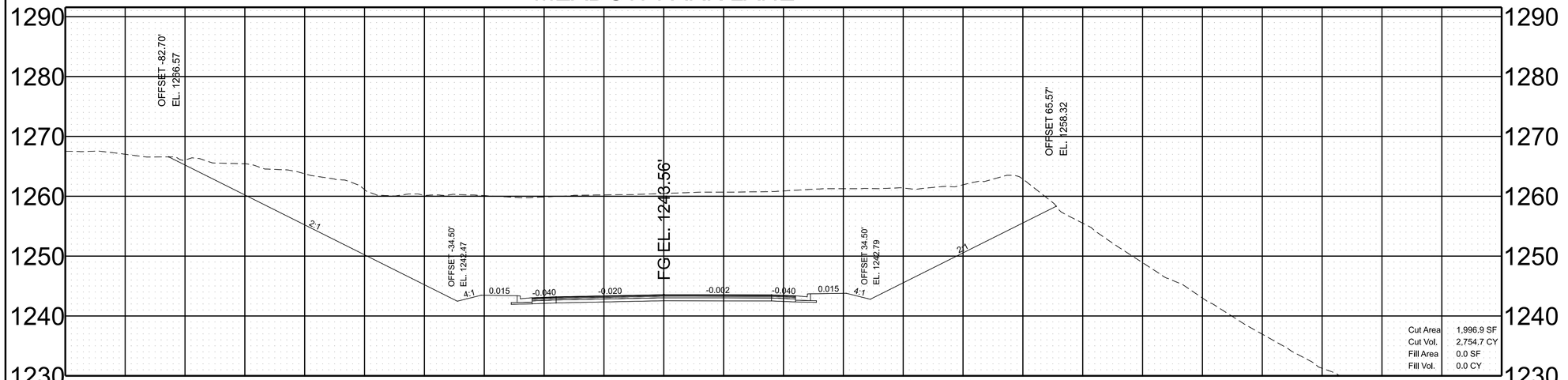
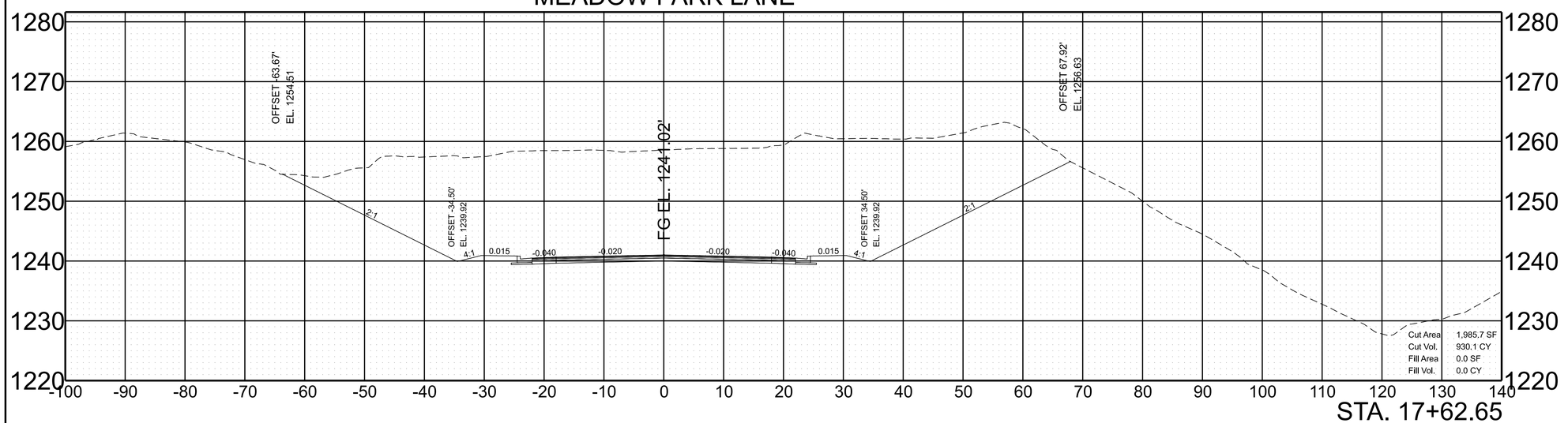
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	46
PIH	2026	82956-3594-04	49
PS&E	2026	82956-3594-04	49

MEADOW PARK LANE



STA. 18+00.00

MEADOW PARK LANE



STA. 17+62.65

SCALE:	1"=10' HORIZ.	BEGIN STA. 17+62.65
	1"=10' VERT.	END STA. 18+00.00

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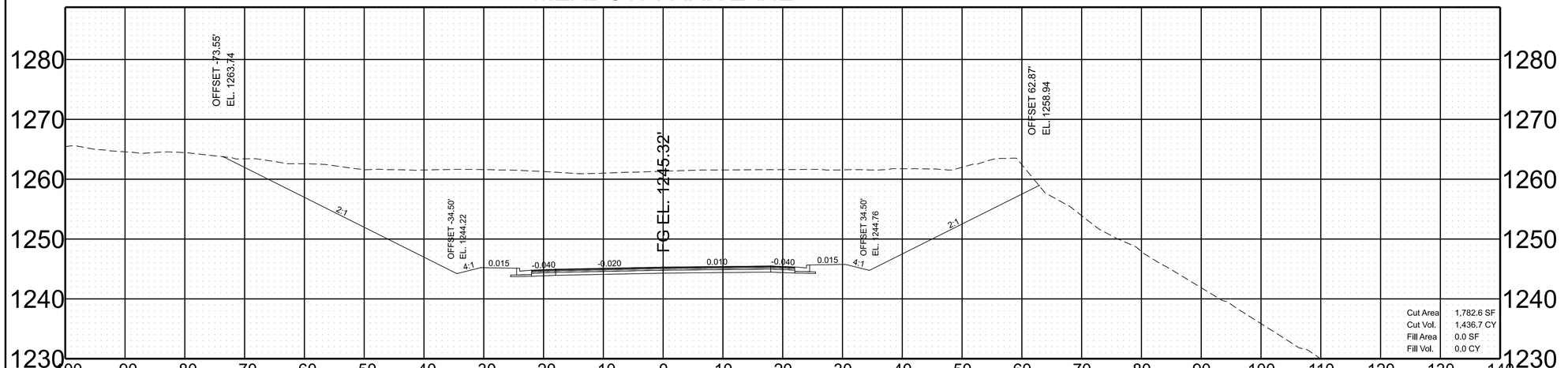
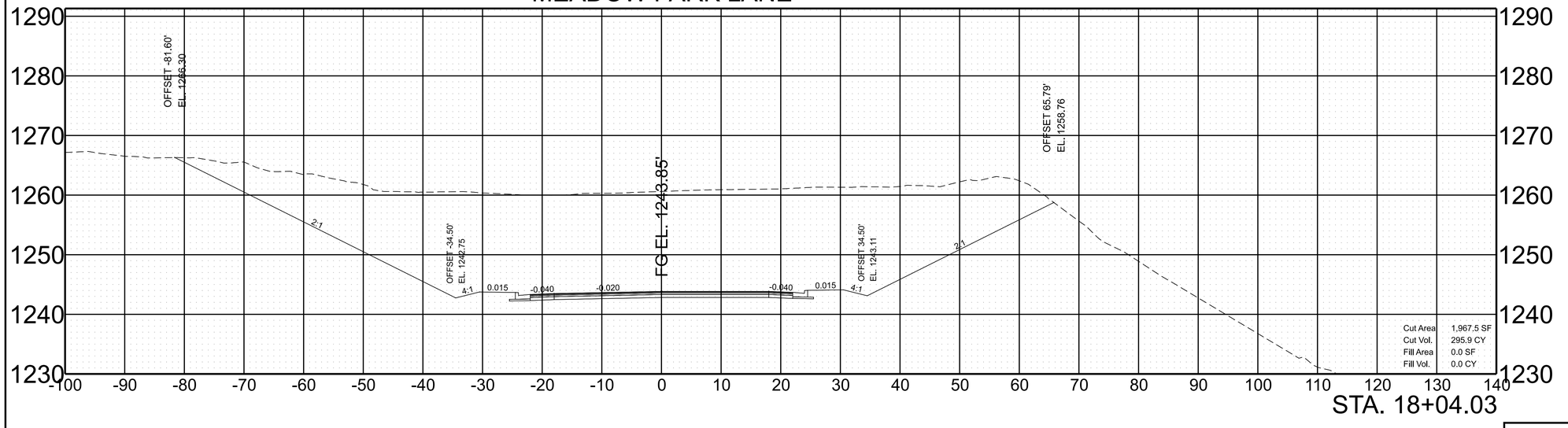
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	47
PIH	2026	82956-3594-04	50
PS&E	2026	82956-3594-04	50

MEADOW PARK LANE



STA. 18+24.72

MEADOW PARK LANE



STA. 18+04.03

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 18+04.03 END STA. 18+24.72

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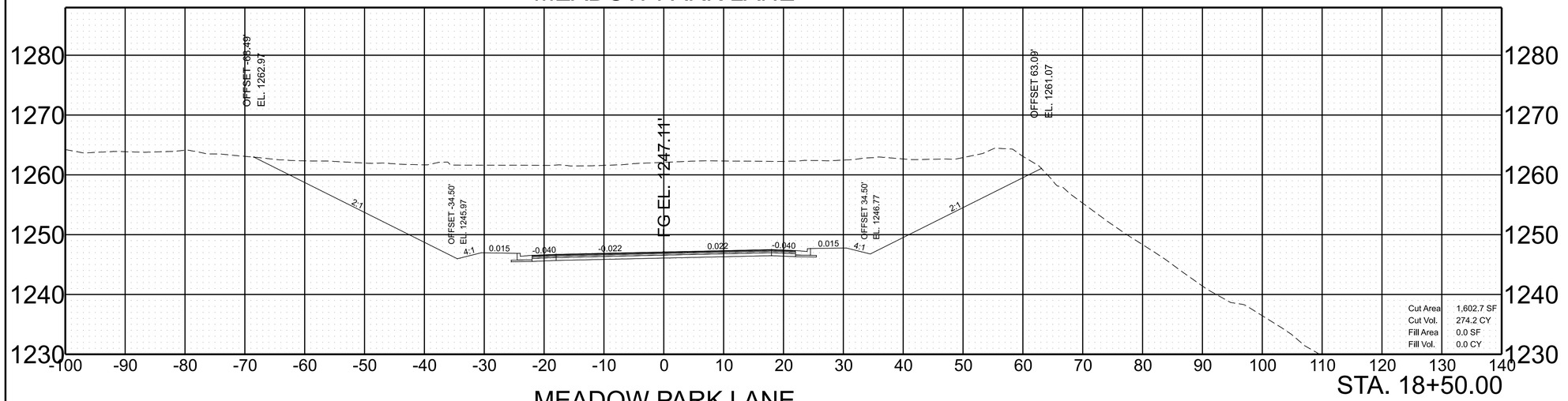
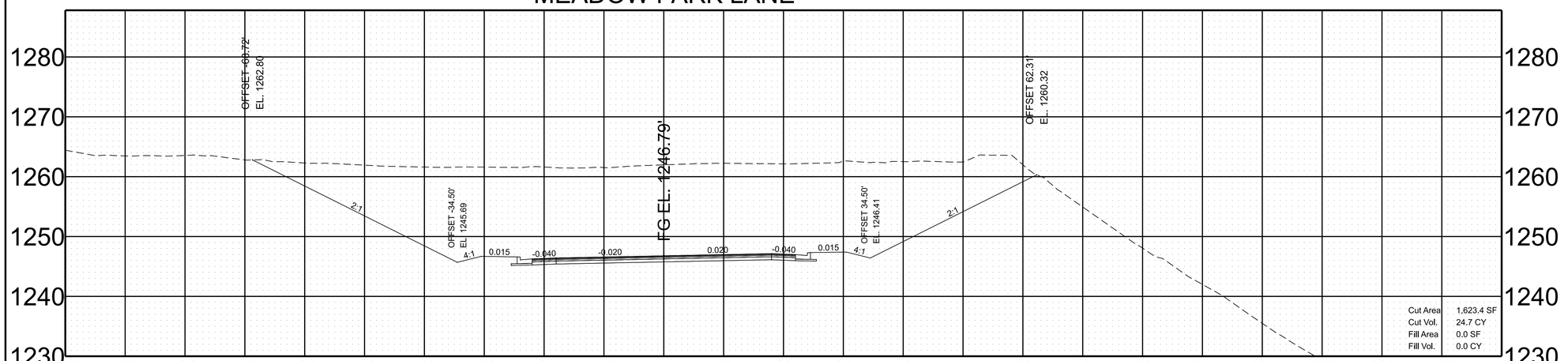
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	48
PIH	2026	82956-3594-04	51
PS&E	2026	82956-3594-04	51

MEADOW PARK LANE



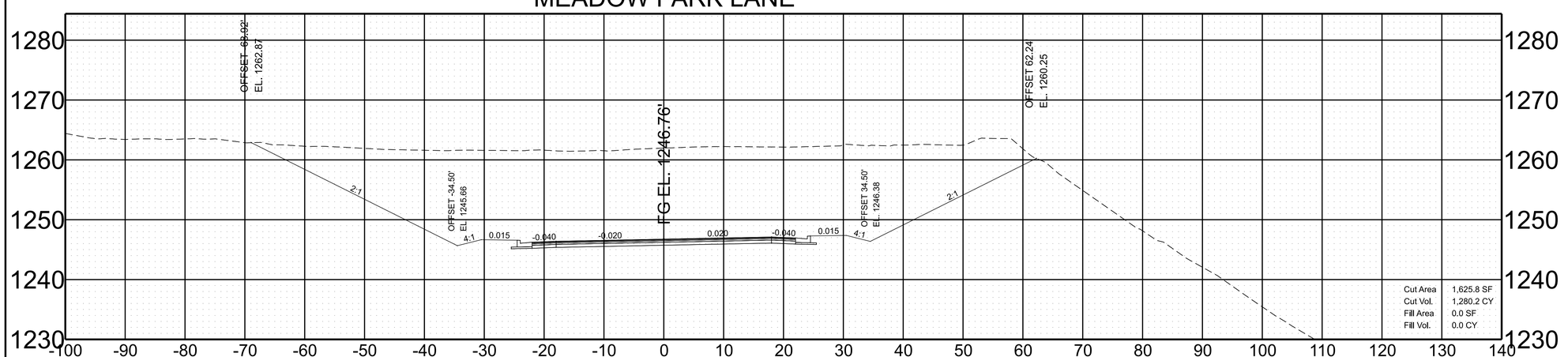
STA. 18+50.00

MEADOW PARK LANE



STA. 18+45.41

MEADOW PARK LANE



STA. 18+45.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 18+45.41
	1"=10' VERT.	END STA. 18+50.00

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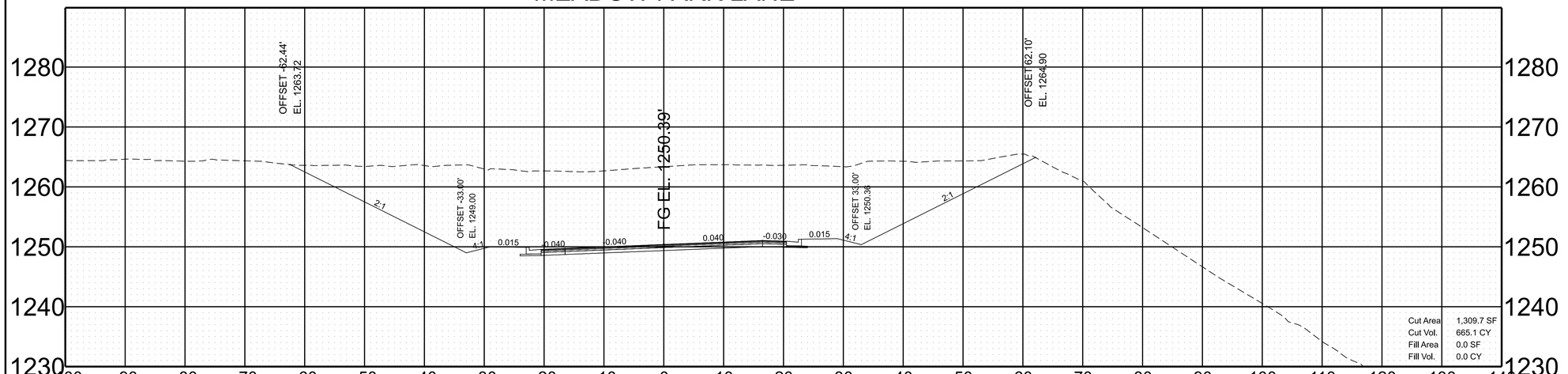
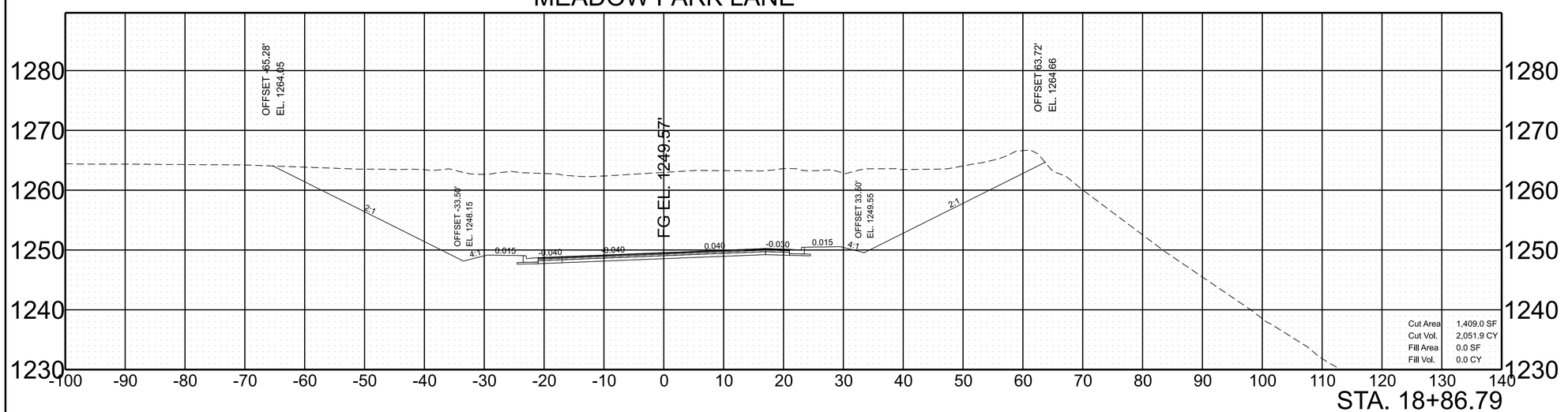
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	49
PIH	2026	82956-3594-04	52
PS&E	2026	82956-3594-04	52

MEADOW PARK LANE



STA. 19+00.00

MEADOW PARK LANE



STA. 18+86.79

SCALE:	1"=10' HORIZ.	BEGIN STA. 18+86.79
	1"=10' VERT.	END STA. 19+00.00

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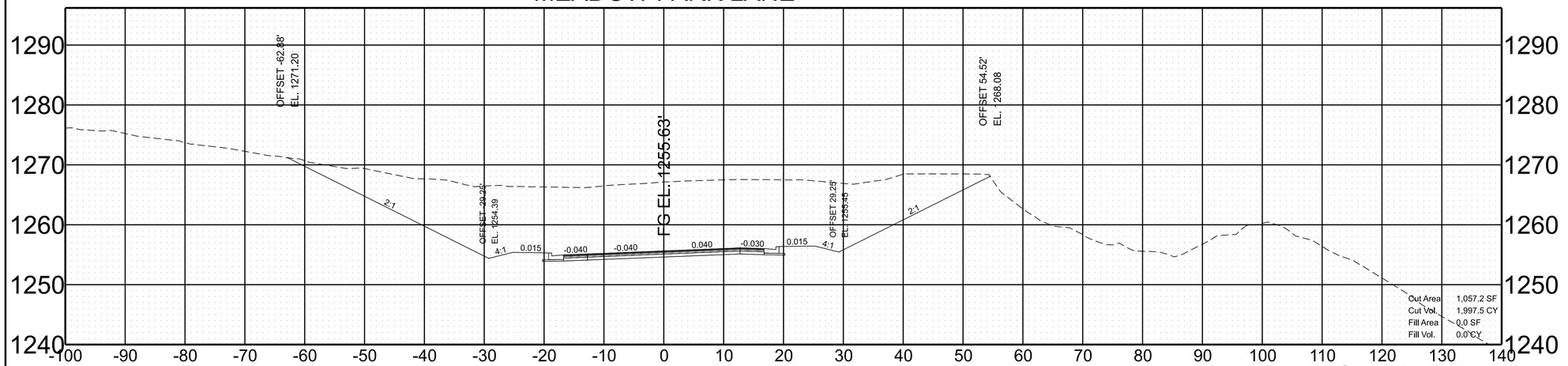
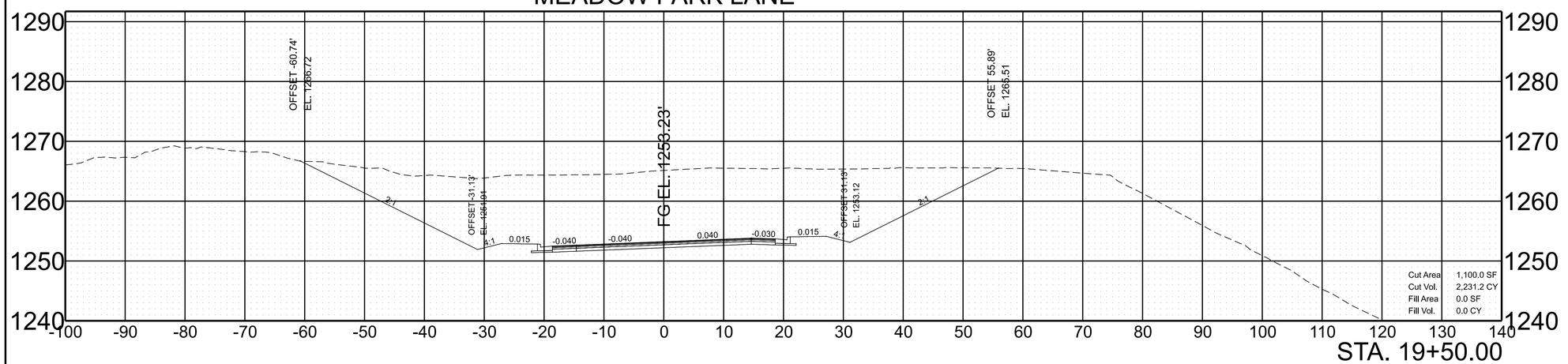
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	50
PIH	2026	82956-3594-04	53
PS&E	2026	82956-3594-04	53

MEADOW PARK LANE



STA. 20+00.00

MEADOW PARK LANE



STA. 19+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 19+50.00 END STA. 20+00.00

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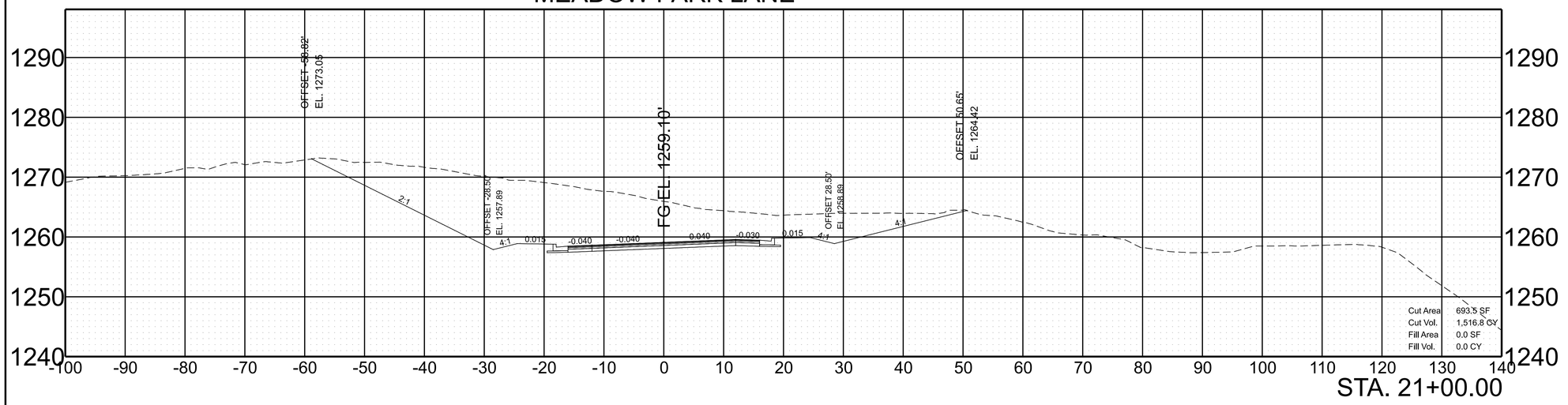
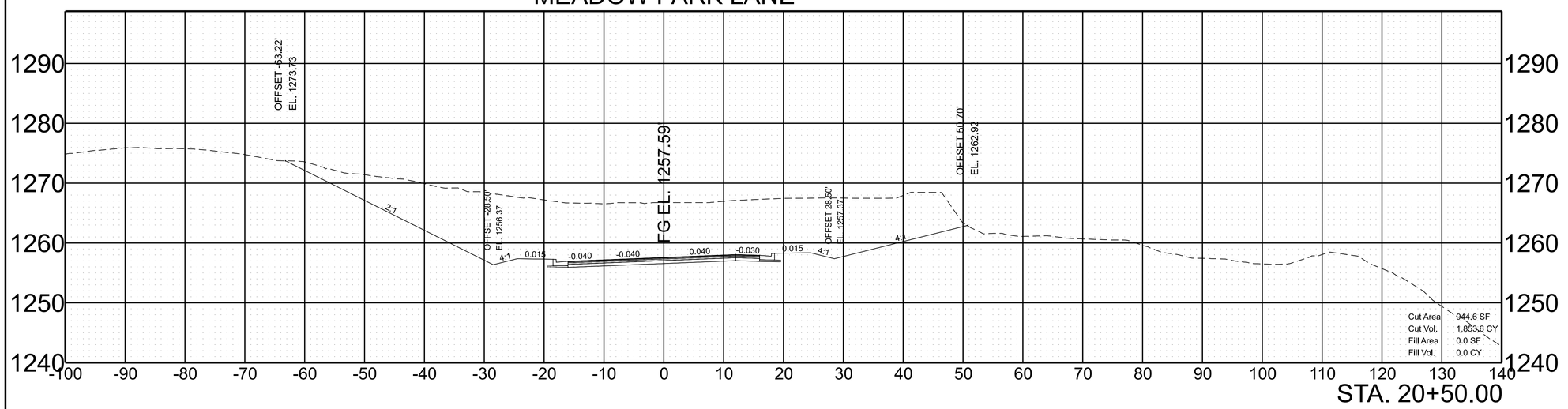
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	51
PIH	2026	82956-3594-04	54
PS&E	2026	82956-3594-04	54

MEADOW PARK LANE



STA. 21+00.00

MEADOW PARK LANE



STA. 20+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 20+50.00
	1"=10' VERT.	END STA. 21+00.00

5/19/2026 3:38:07 PM
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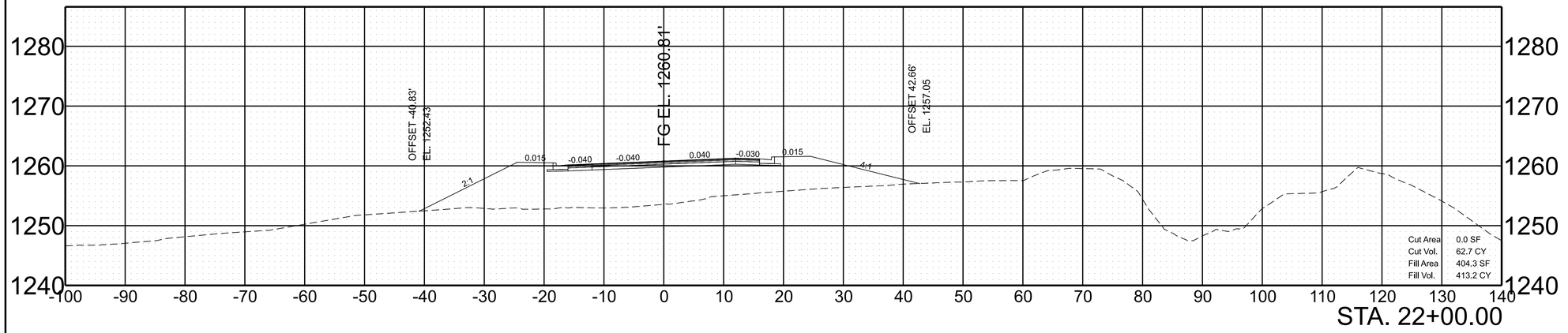
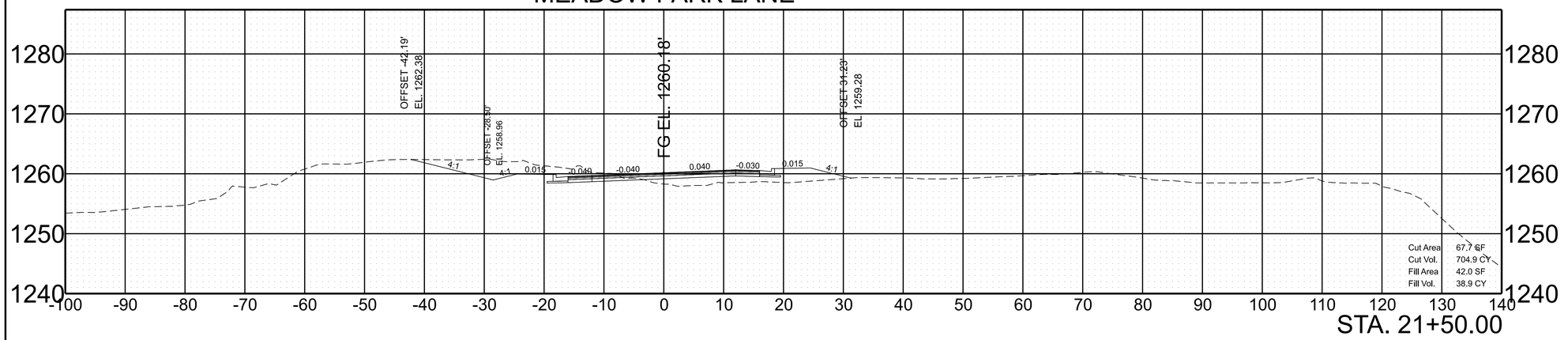
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	52
PIH	2026	82956-3594-04	55
PS&E	2026	82956-3594-04	55

MEADOW PARK LANE



STA. 22+00.00

MEADOW PARK LANE



STA. 21+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 21+50.00
	1"=10' VERT.	END STA. 22+00.00

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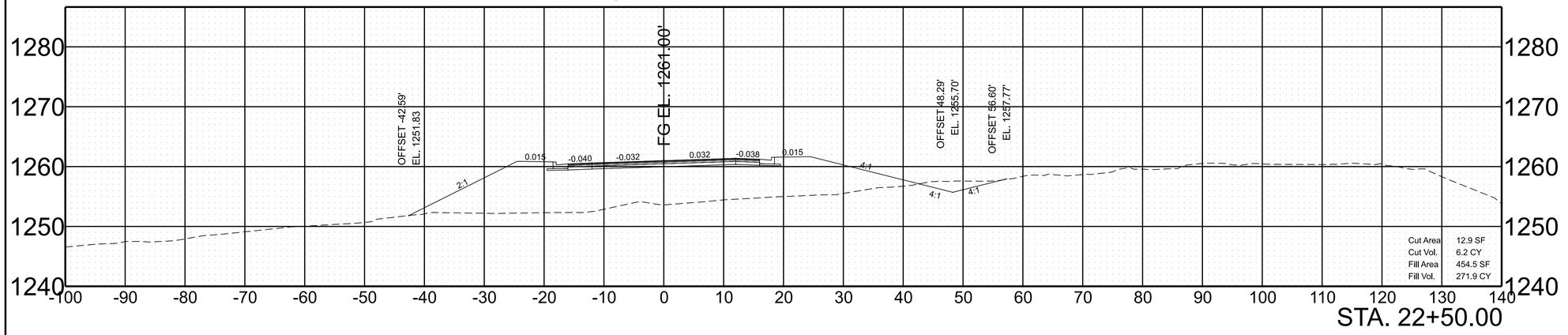
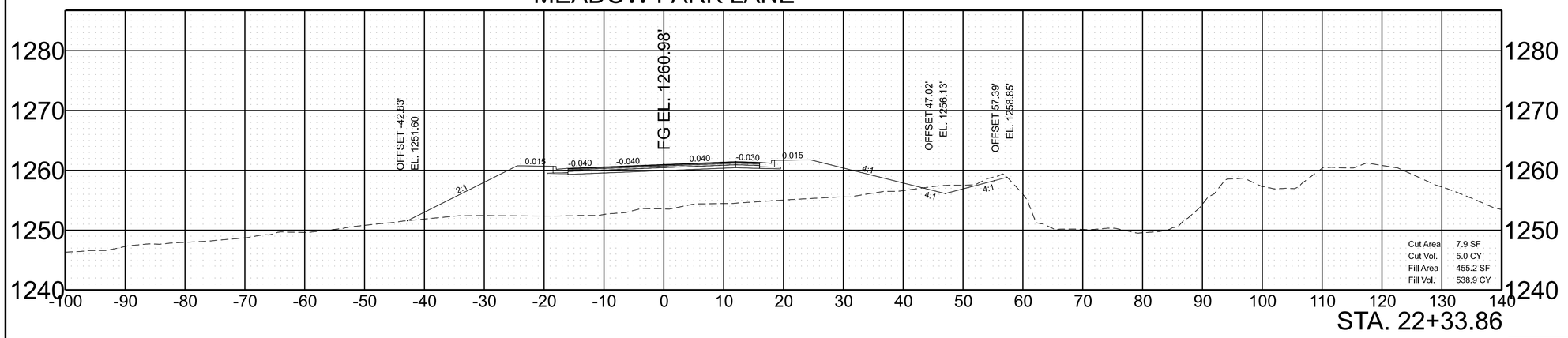
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	53
PIH	2026	82956-3594-04	56
PS&E	2026	82956-3594-04	56

MEADOW PARK LANE



STA. 22+50.00

MEADOW PARK LANE



STA. 22+33.86

SCALE:	1"=10' HORIZ.	BEGIN STA. 22+33.86
	1"=10' VERT.	END STA. 22+50.00

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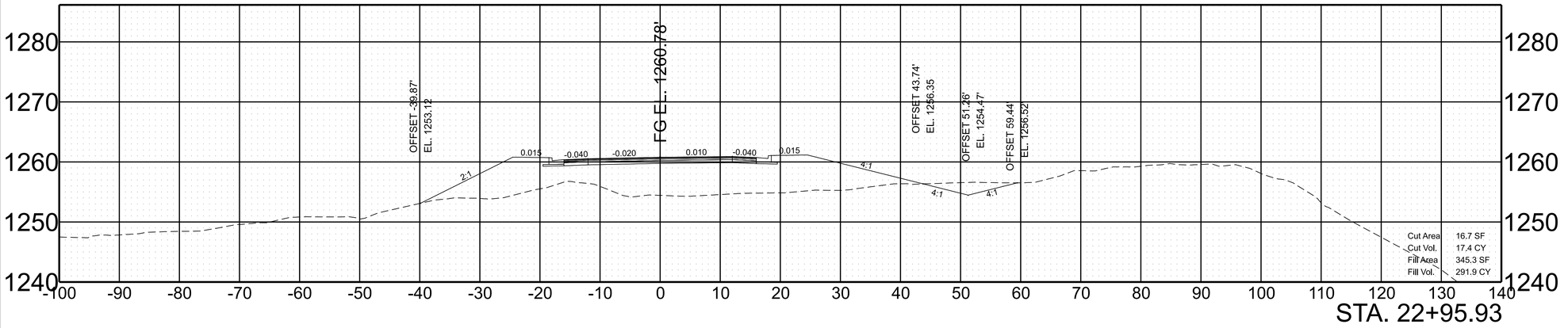
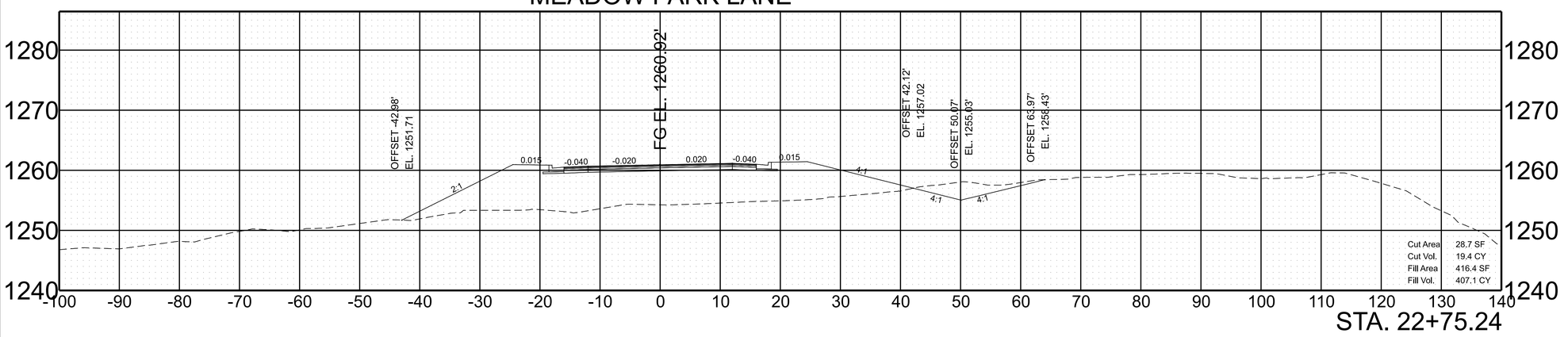
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	54
PIH	2026	82956-3594-04	57
PS&E	2026	82956-3594-04	57

MEADOW PARK LANE



STA. 22+95.93

MEADOW PARK LANE



STA. 22+75.24

SCALE:	1"=10' HORIZ.	BEGIN STA. 22+75.24
	1"=10' VERT.	END STA. 22+95.93

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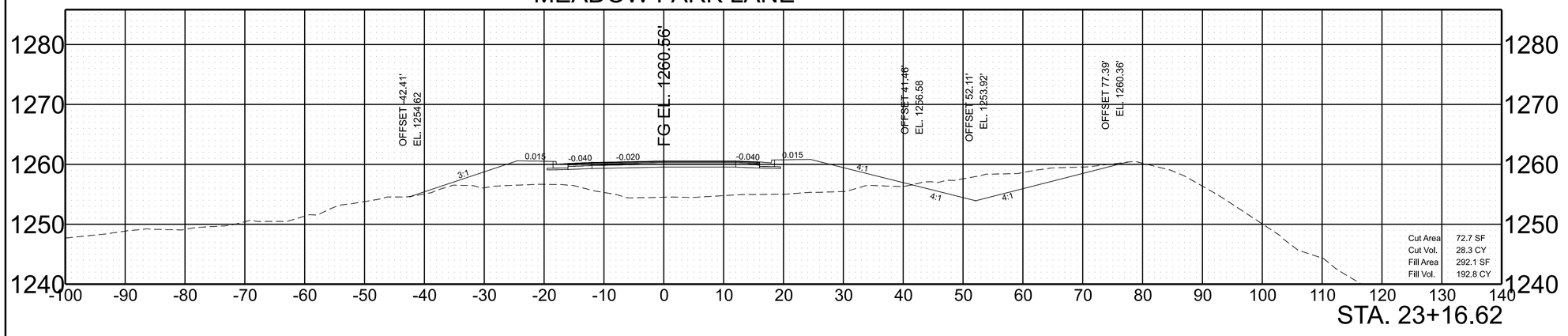
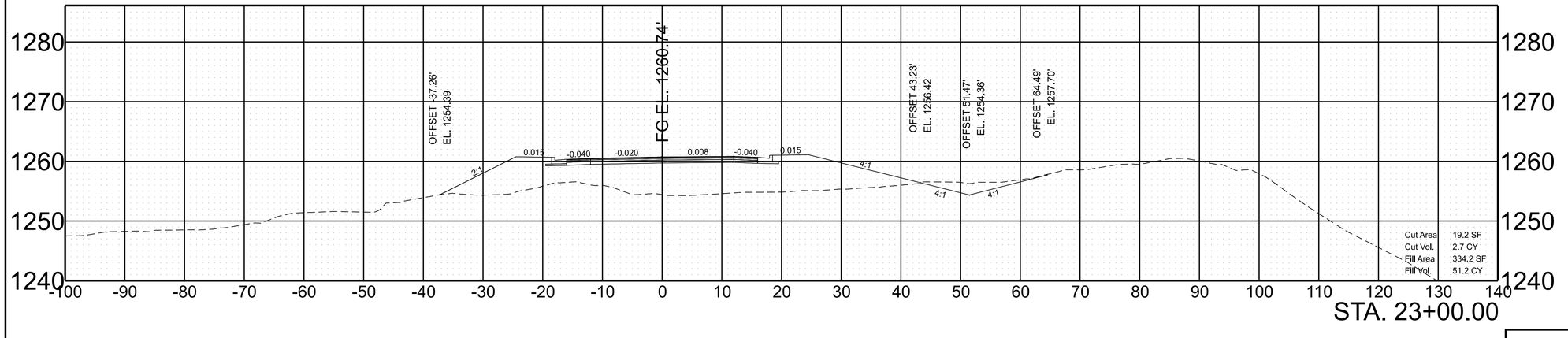
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	55
PIH	2026	82956-3594-04	58
PS&E	2026	82956-3594-04	58

MEADOW PARK LANE



STA. 23+16.62

MEADOW PARK LANE



STA. 23+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 23+00.00
	1"=10' VERT.	END STA. 23+16.62

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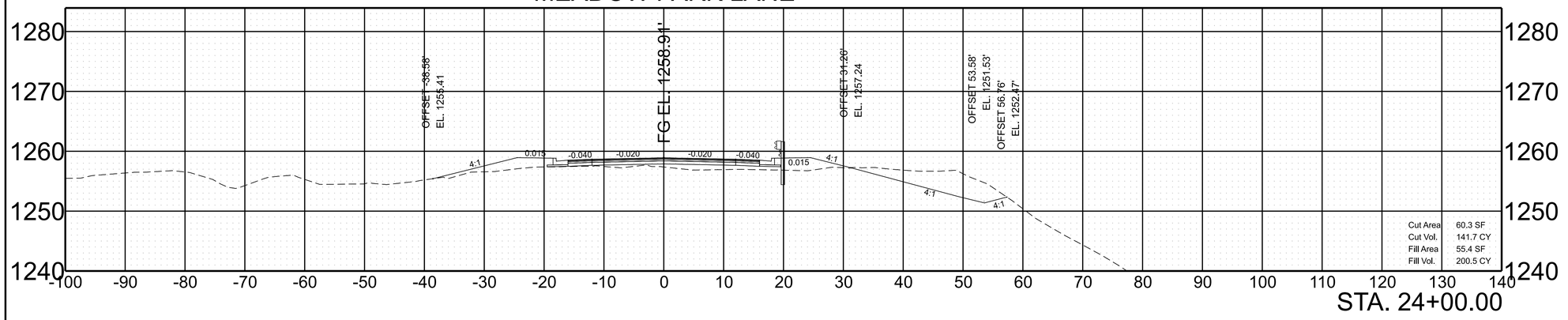
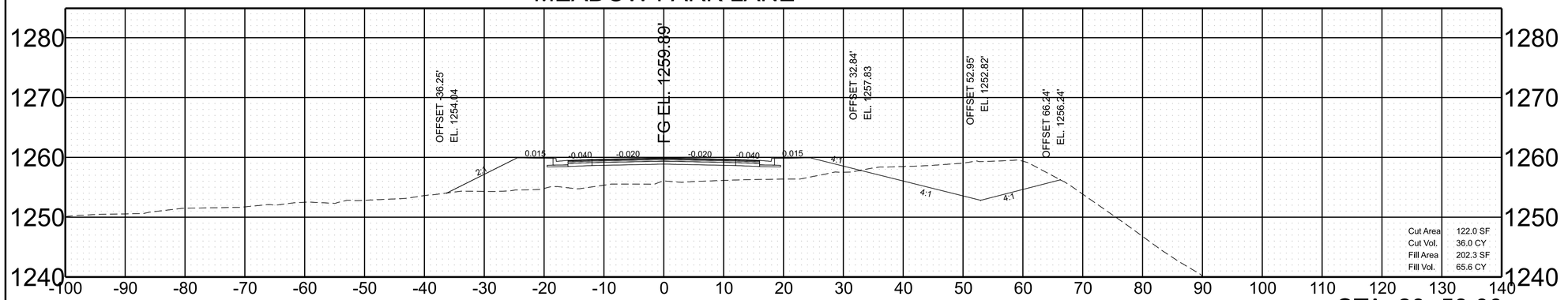
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	56
PIH	2026	82956-3594-04	59
PS&E	2026	82956-3594-04	59

MEADOW PARK LANE



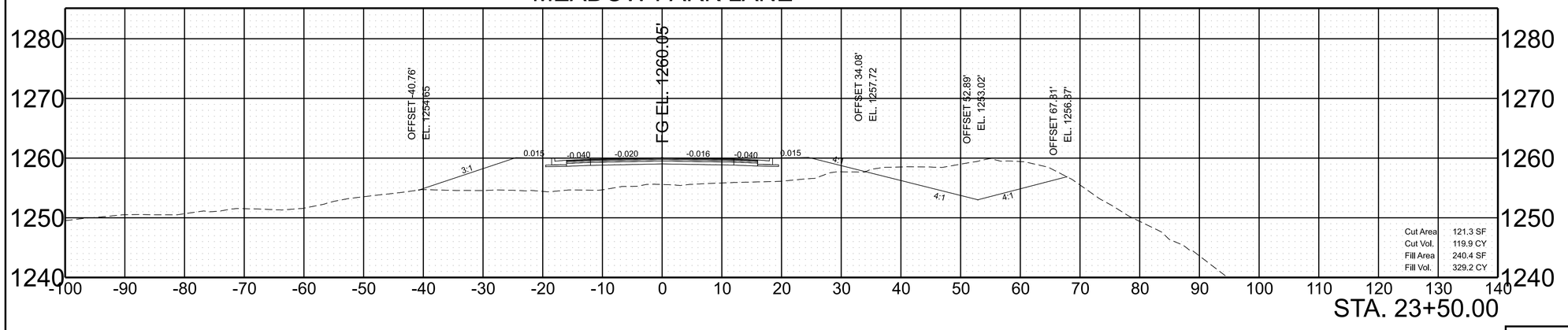
STA. 24+00.00

MEADOW PARK LANE



STA. 23+58.00

MEADOW PARK LANE



STA. 23+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 23+50.00
	1"=10' VERT.	END STA. 24+00.00

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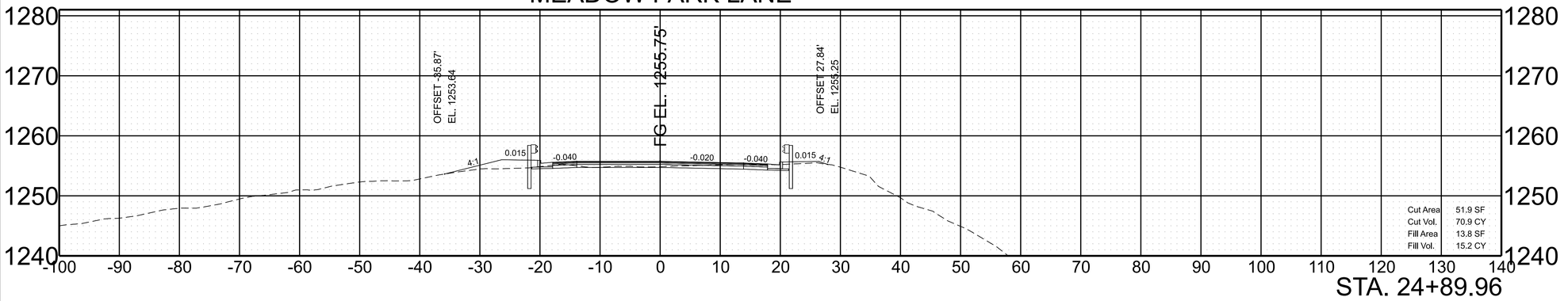
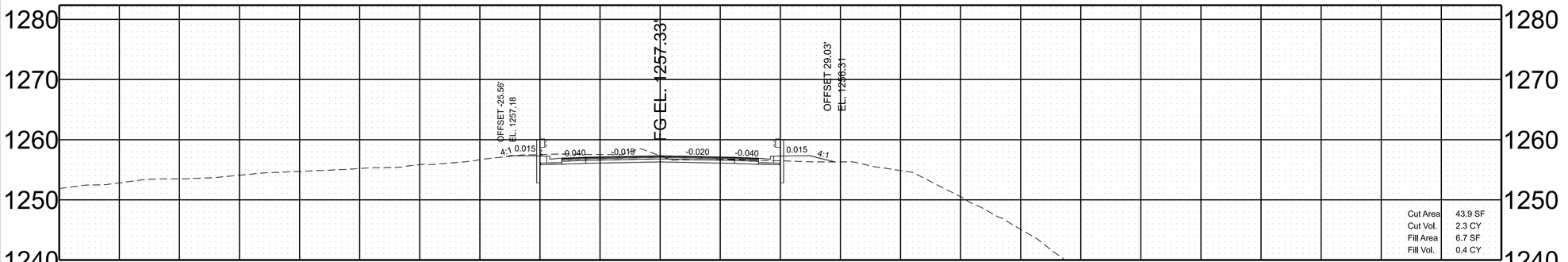
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	57
PIH	2026	82956-3594-04	60
PS&E	2026	82956-3594-04	60

MEADOW PARK LANE



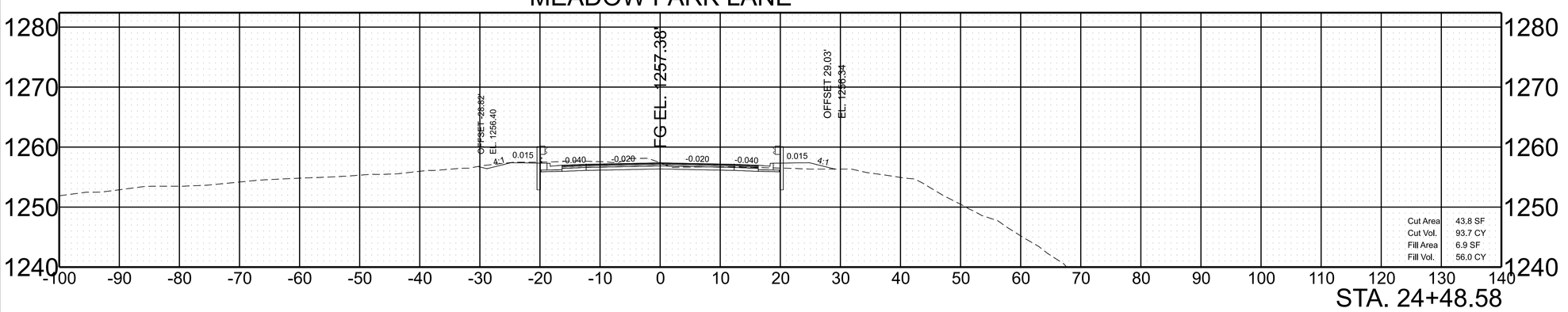
STA. 24+89.96

MEADOW PARK LANE



STA. 24+50.00

MEADOW PARK LANE



STA. 24+48.58

SCALE:	1"=10' HORIZ.	BEGIN STA. 24+48.58
	1"=10' VERT.	END STA. 24+89.96

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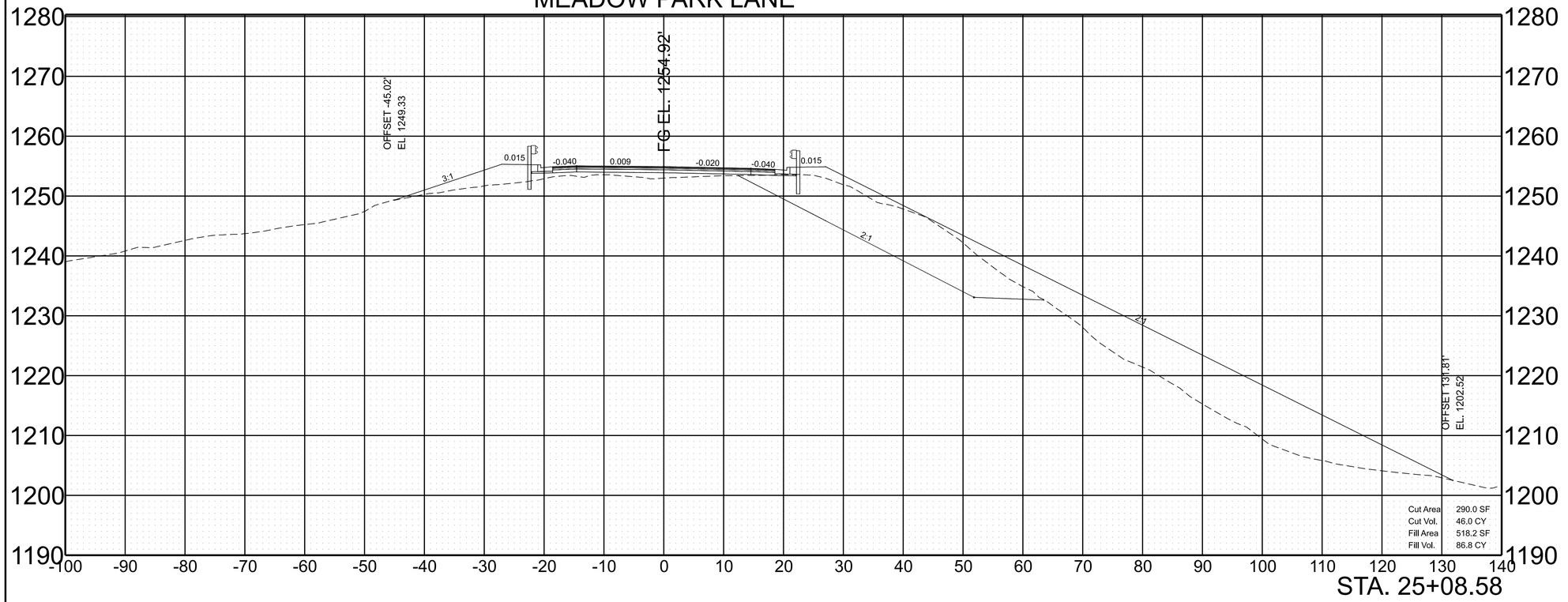
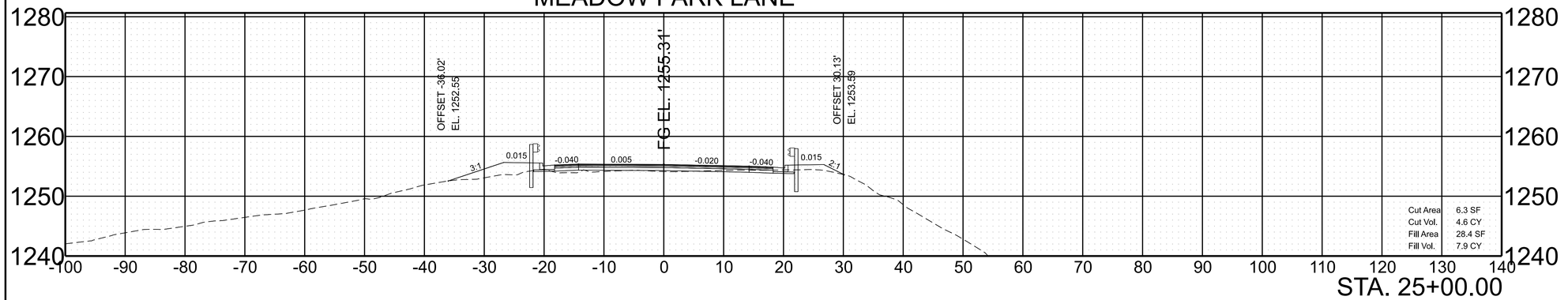
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	58
PIH	2026	82956-3594-04	61
PS&E	2026	82956-3594-04	61

MEADOW PARK LANE



STA. 25+08.58

MEADOW PARK LANE



STA. 25+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 25+00.00
	1"=10' VERT.	END STA. 25+08.58

5/19/2026 3:38:38 PM
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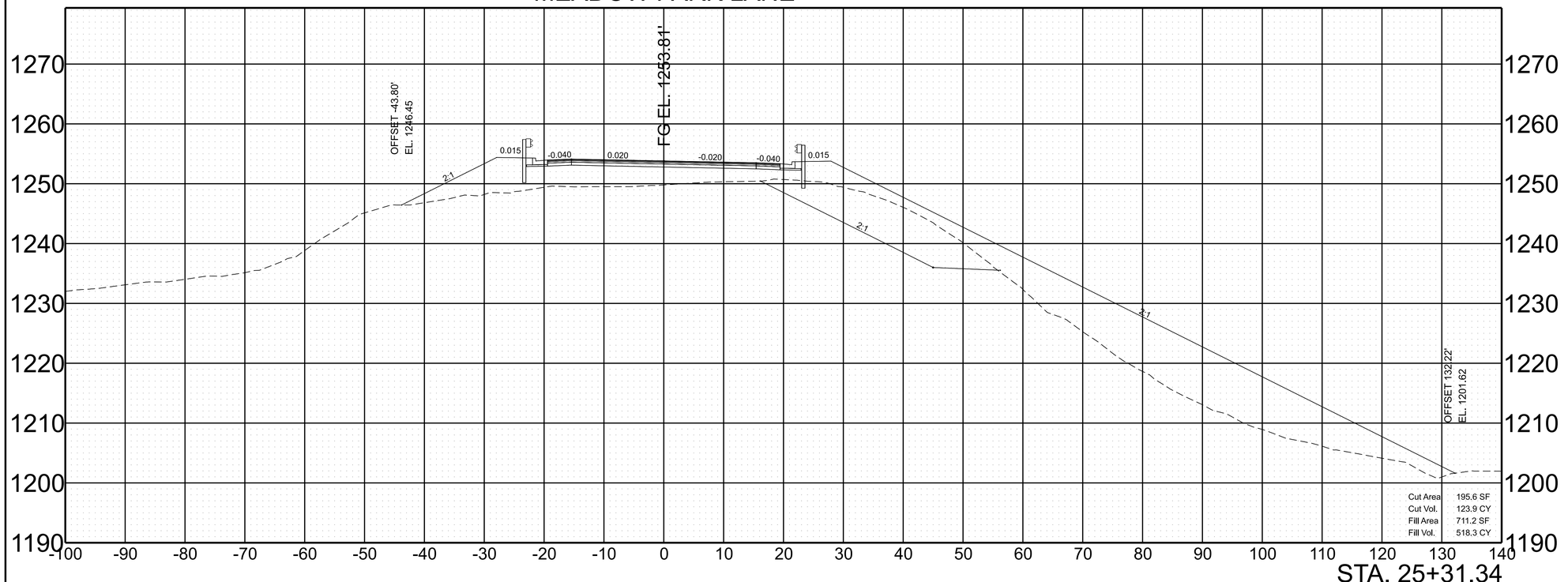
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	59
PIH	2026	82956-3594-04	62
PS&E	2026	82956-3594-04	62

MEADOW PARK LANE



SCALE:	1"=10' HORIZ.	BEGIN STA. 25+31.34
	1"=10' VERT.	END STA. 25+31.34

5/19/2026 3:38:45 PM
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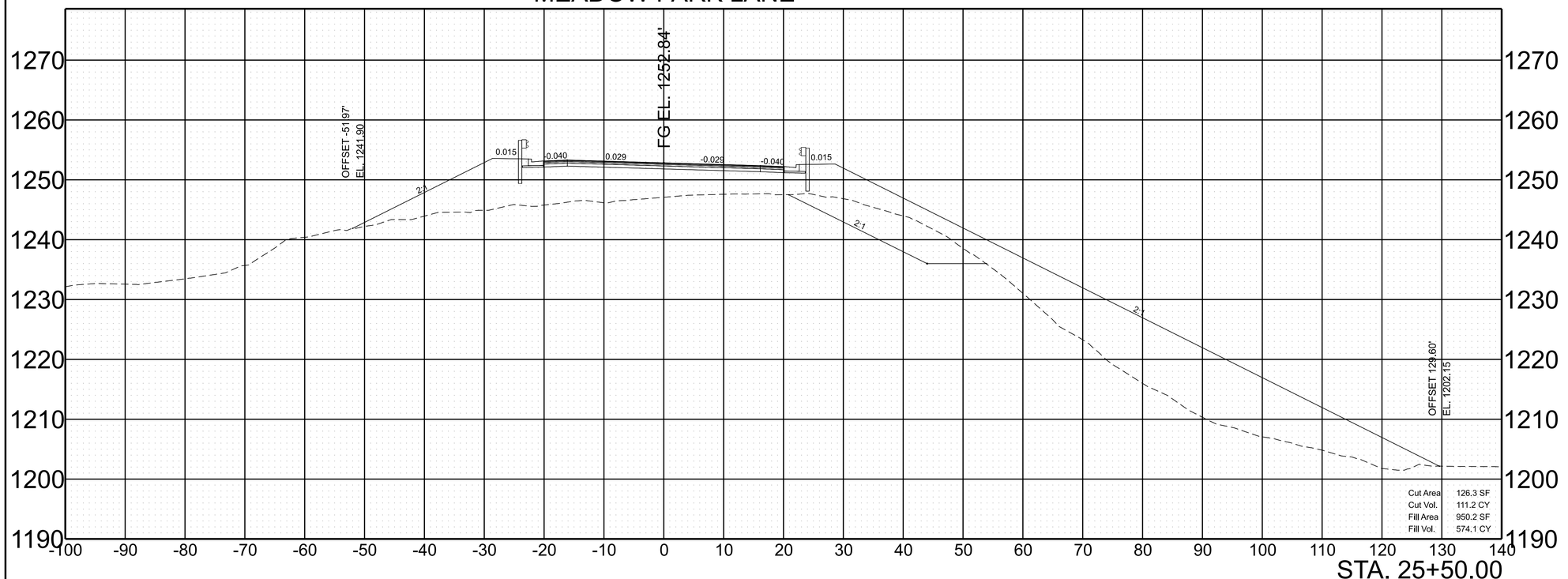
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	60
PIH	2026	82956-3594-04	63
PS&E	2026	82956-3594-04	63

MEADOW PARK LANE



SCALE:		
	1"=10' HORIZ.	BEGIN STA. 25+50.00
	1"=10' VERT.	END STA. 25+50.00

5/19/2026 3:38:48 PM
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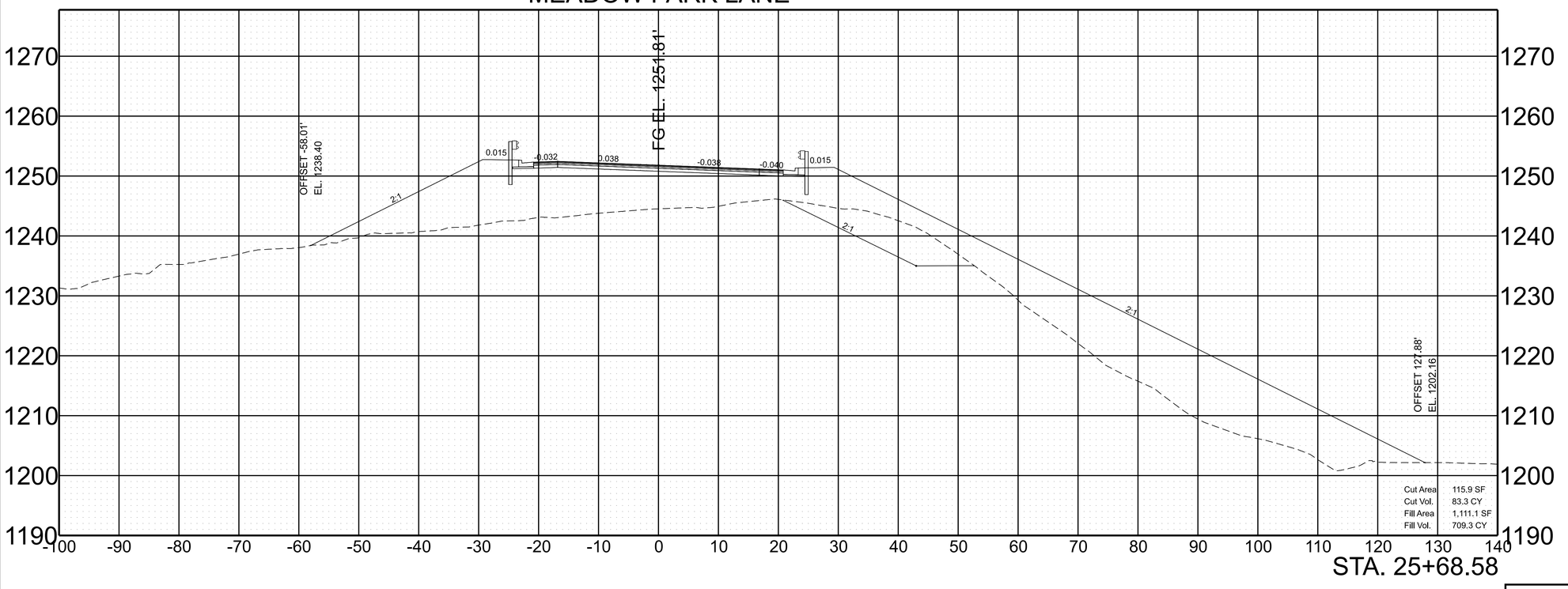
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	61
PIH	2026	82956-3594-04	64
PS&E	2026	82956-3594-04	64

MEADOW PARK LANE



SCALE:	1"=10' HORIZ.	BEGIN STA. 25+68.58
	1"=10' VERT.	END STA. 25+68.58

5/19/2026 3:38:51 PM
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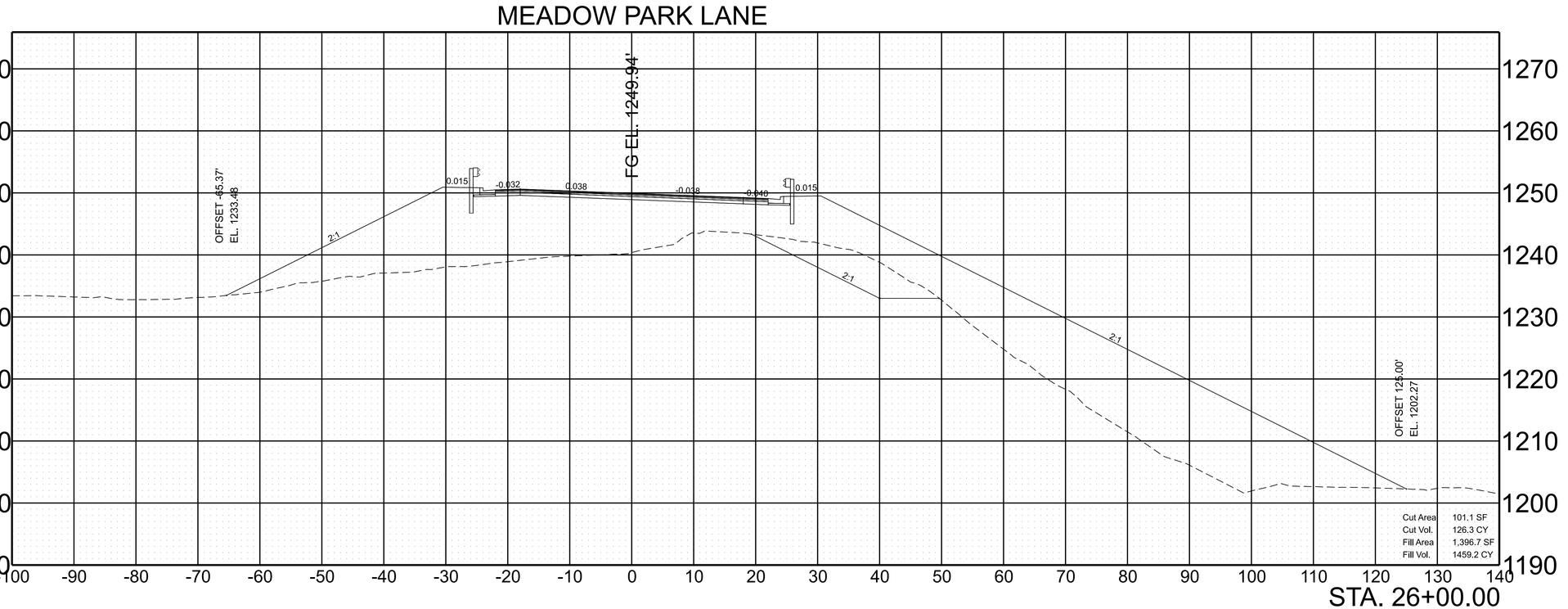
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	62
PIH	2026	82956-3594-04	65
PS&E	2026	82956-3594-04	65



Cut Area	101.1 SF
Cut Vol.	126.3 CY
Fill Area	1,396.7 SF
Fill Vol.	1459.2 CY

SCALE:		BEGIN STA.	26+00.00
	1"=10' HORIZ.	END STA.	26+00.00
	1"=10' VERT.		

5/19/2026 3:38:54 PM
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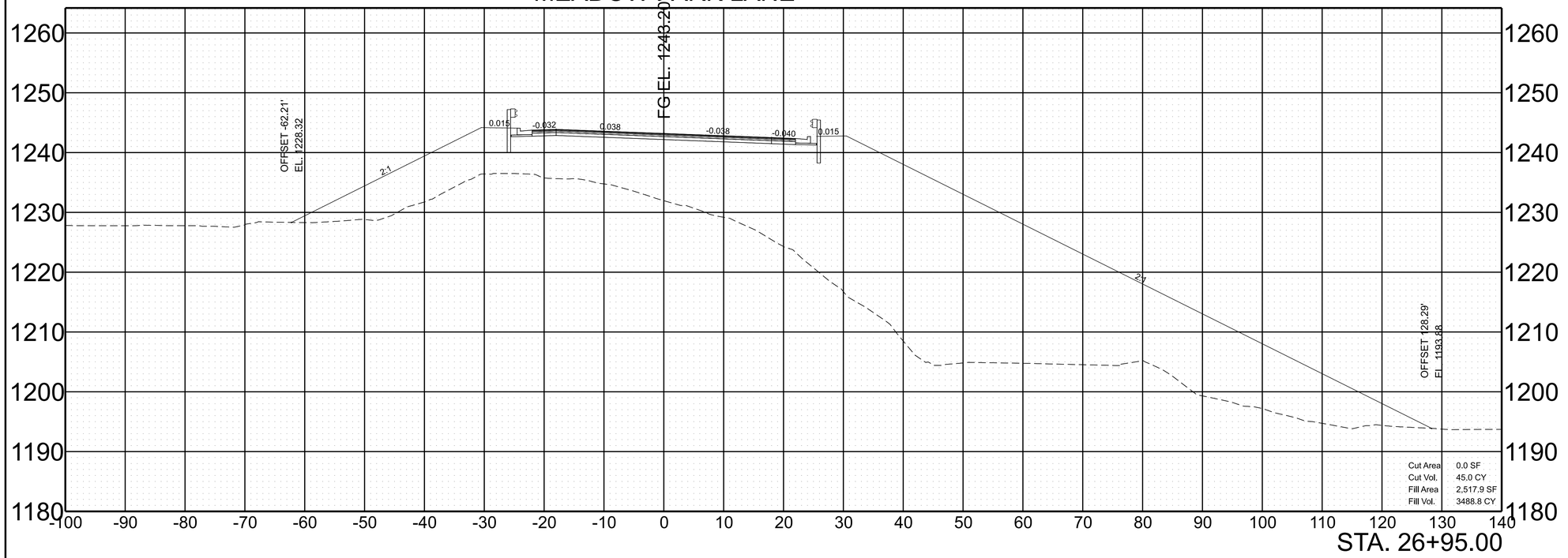
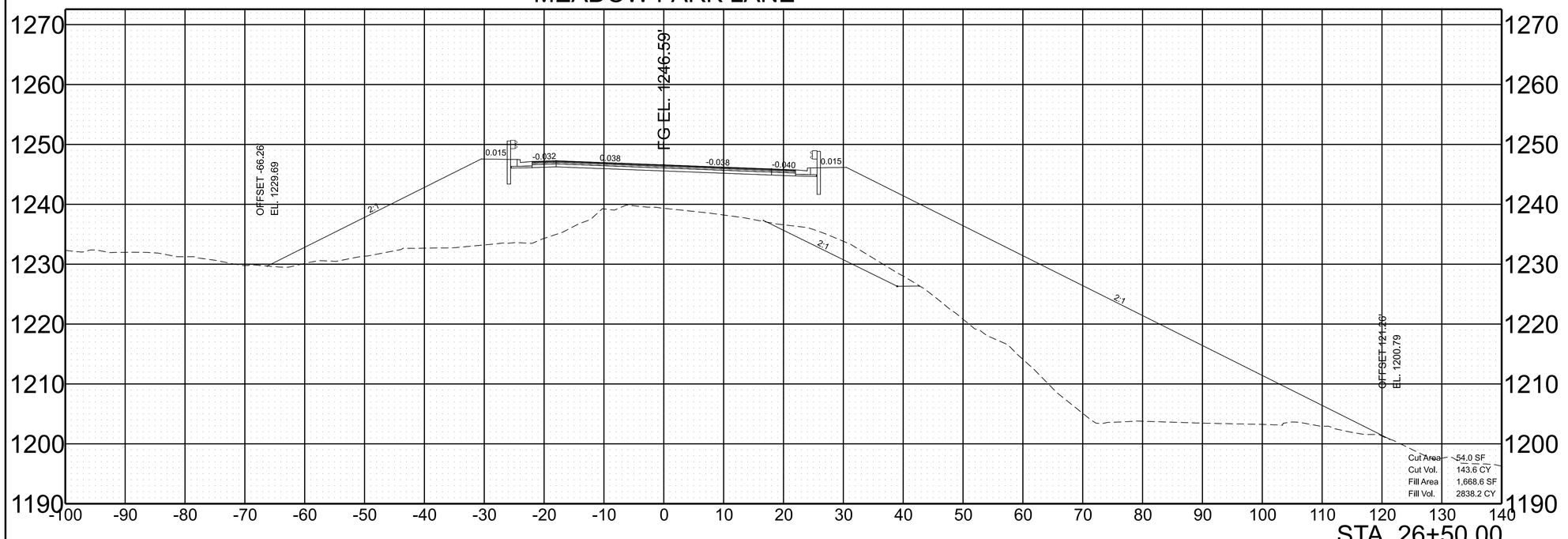
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	63
PIH	2026	82956-3594-04	66
PS&E	2026	82956-3594-04	66

MEADOW PARK LANE



STA. 26+95.00

MEADOW PARK LANE



STA. 26+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 26+50.00
	1"=10' VERT.	END STA. 26+50.00

5/21/2026 12:58:52 PM
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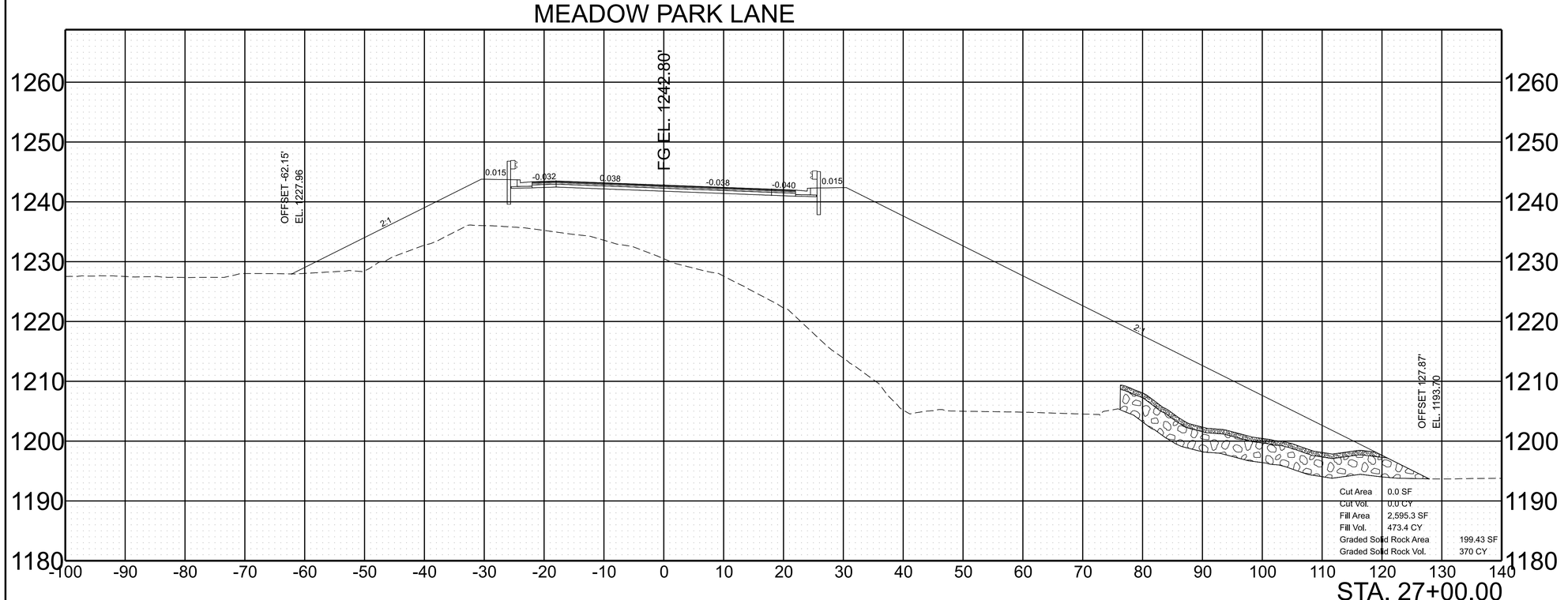
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	64
PIH	2026	82956-3594-04	67
PS&E	2026	82956-3594-04	67

MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 27+00.00 END STA. 27+00.00

5/19/2026 3:39:02 PM
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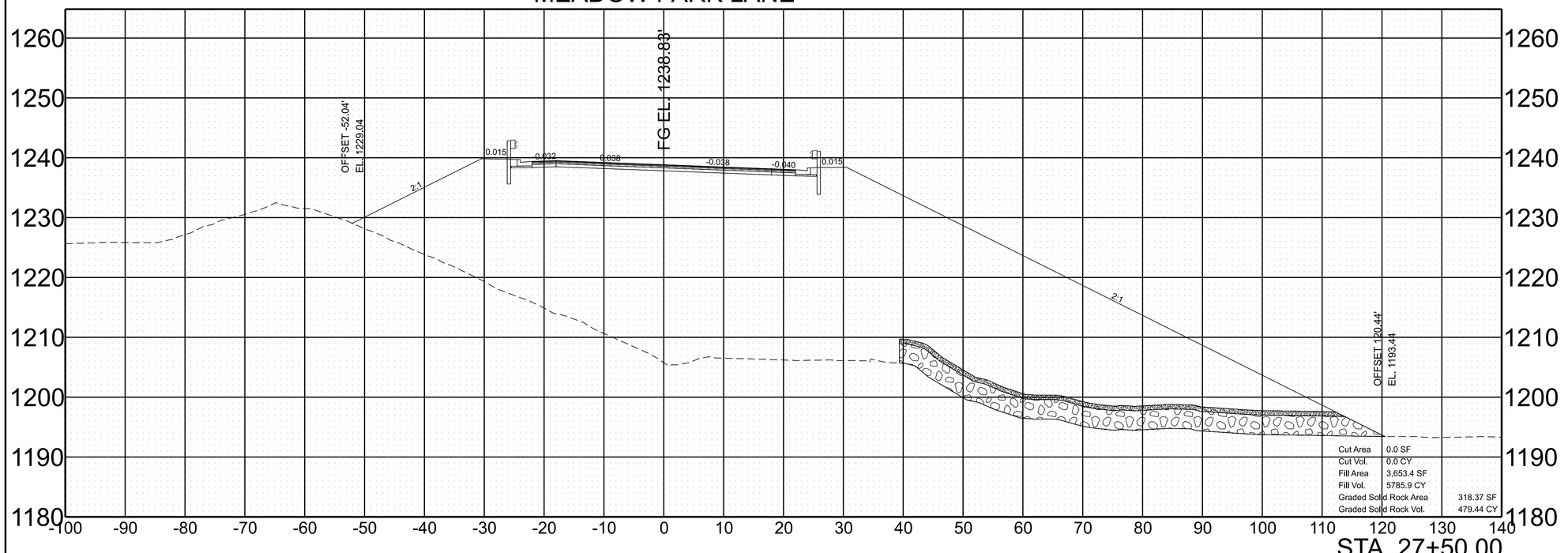
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	65
PIH	2026	82956-3594-04	68
PS&E	2026	82956-3594-04	68

MEADOW PARK LANE



Cut Area	0.0 SF	
Cut Vol.	0.0 CY	
Fill Area	3,653.4 SF	
Fill Vol.	5785.9 CY	
Graded Solid Rock Area		318.37 SF
Graded Solid Rock Vol.		479.44 CY

SCALE:	BEGIN STA. 27+50.00
1"=10' HORIZ. 1"=10' VERT.	END STA. 27+50.00

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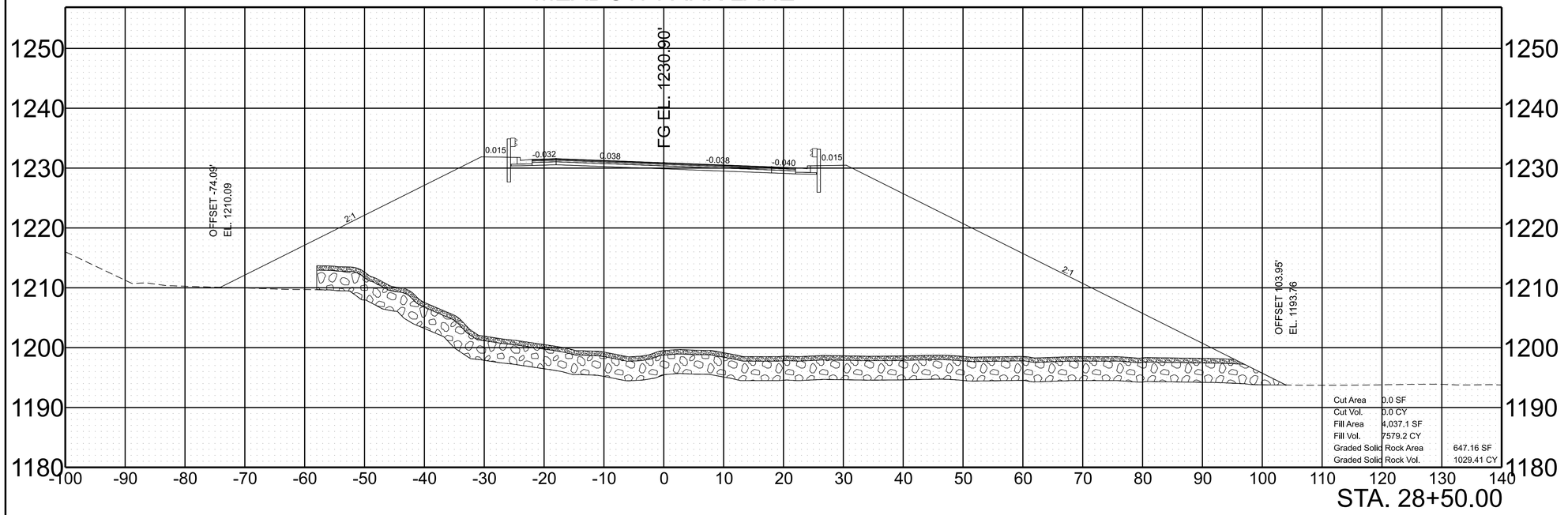
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	66
PIH	2026	82956-3594-04	69
PS&E	2026	82956-3594-04	69

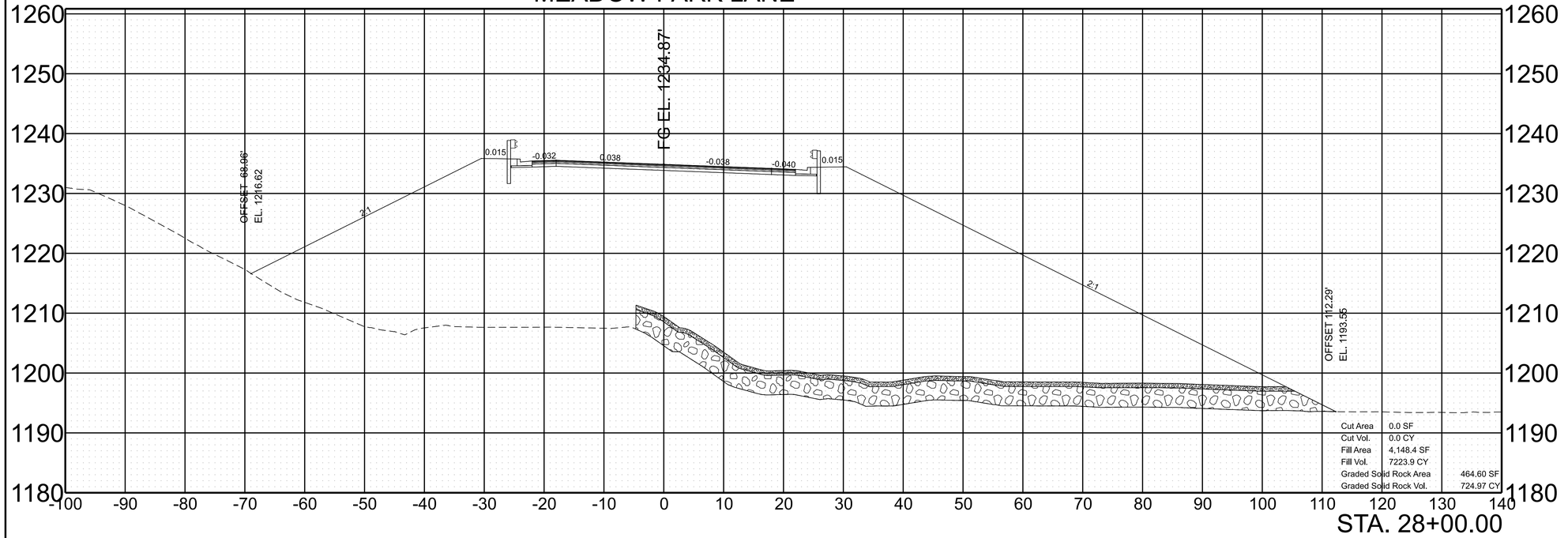
MEADOW PARK LANE



Cut Area	0.0 SF	
Cut Vol.	0.0 CY	
Fill Area	4,037.1 SF	
Fill Vol.	7579.2 CY	
Graded Solid Rock Area		647.16 SF
Graded Solid Rock Vol.		1029.41 CY

STA. 28+50.00

MEADOW PARK LANE



Cut Area	0.0 SF	
Cut Vol.	0.0 CY	
Fill Area	4,148.4 SF	
Fill Vol.	7223.9 CY	
Graded Solid Rock Area		464.60 SF
Graded Solid Rock Vol.		724.97 CY

STA. 28+00.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 28+00.00
	1"=10' VERT.	END STA. 28+00.00

5/19/2026 3:39:11 PM
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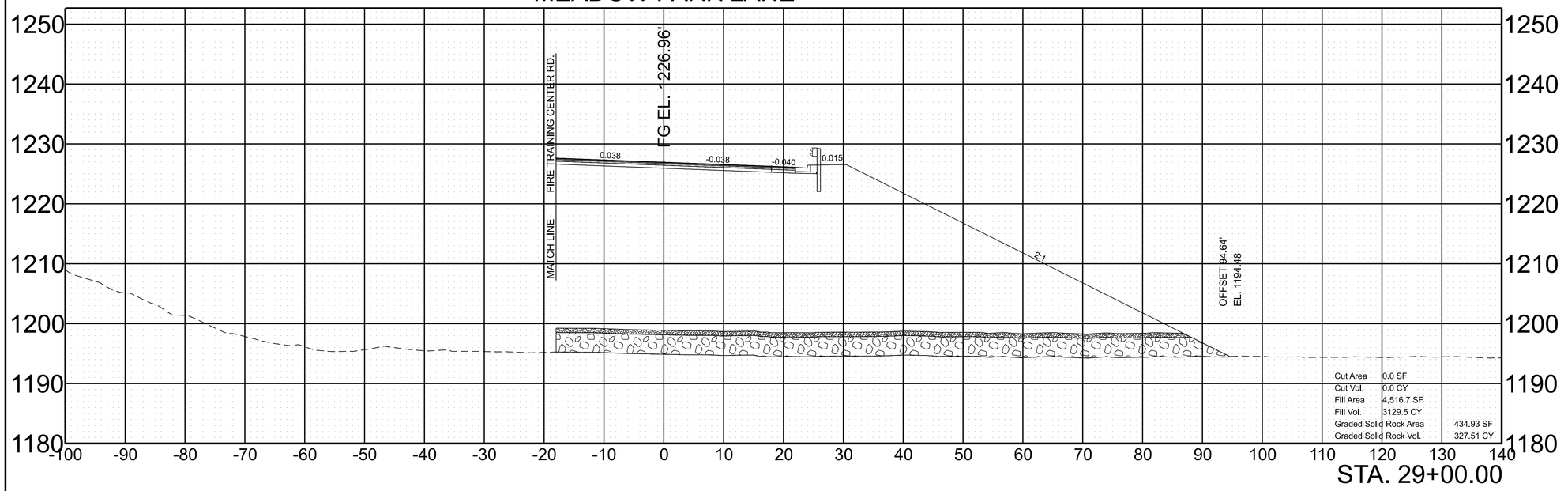
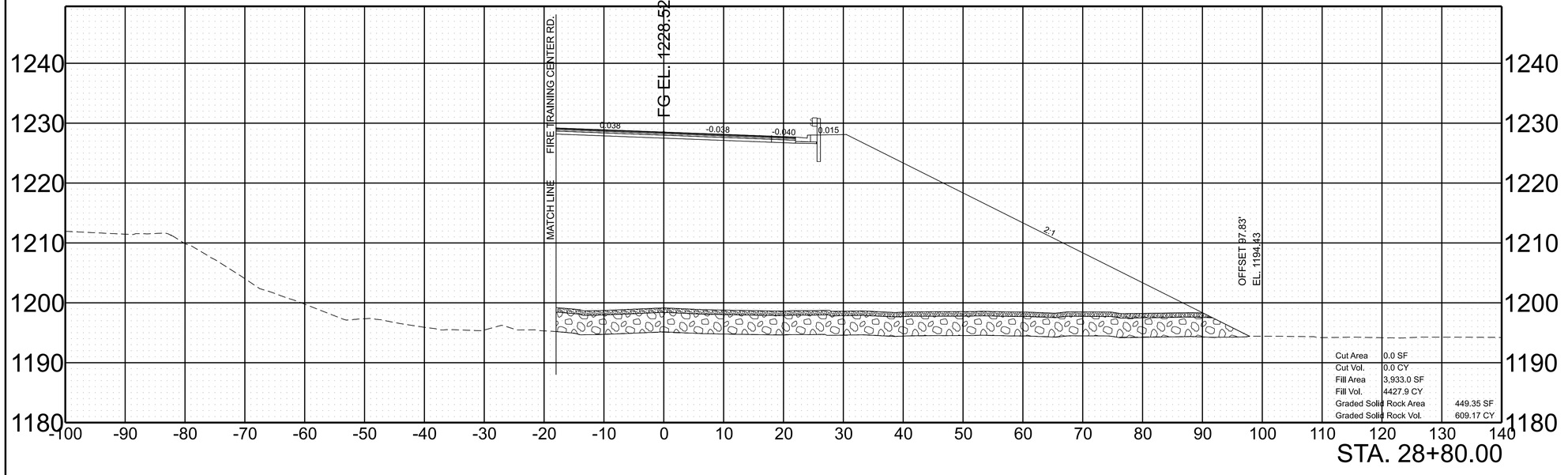
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	67
PIH	2026	82956-3594-04	70
PS&E	2026	82956-3594-04	70

MEADOW PARK LANE



STA. 29+00.00

MEADOW PARK LANE



STA. 28+80.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 28+50.00
	1"=10' VERT.	END STA. 29+00.00

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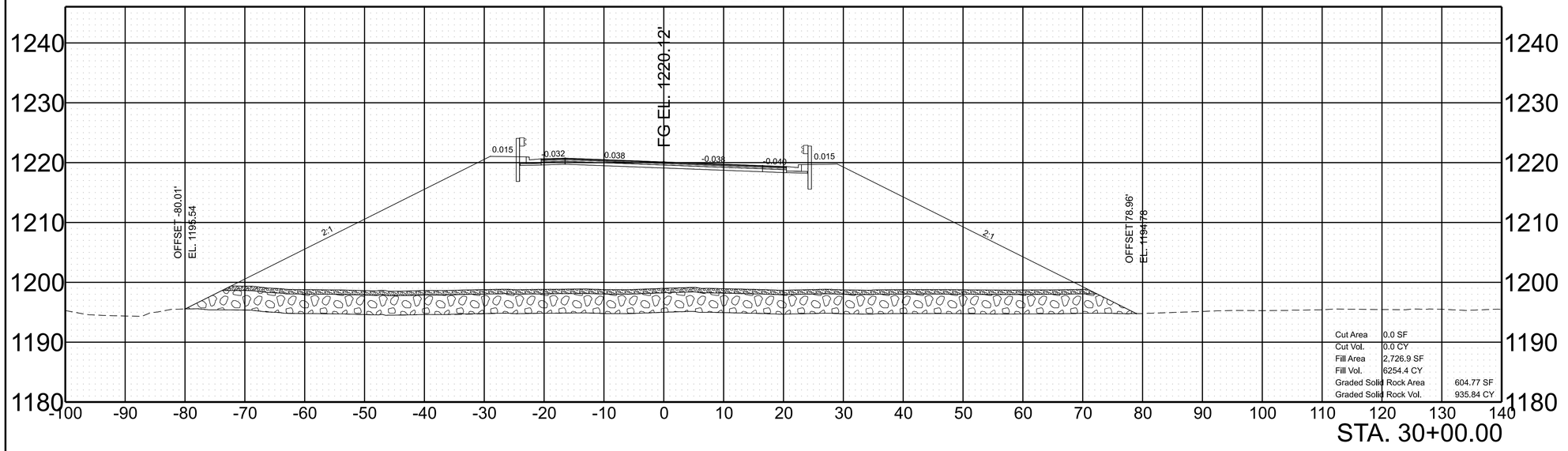
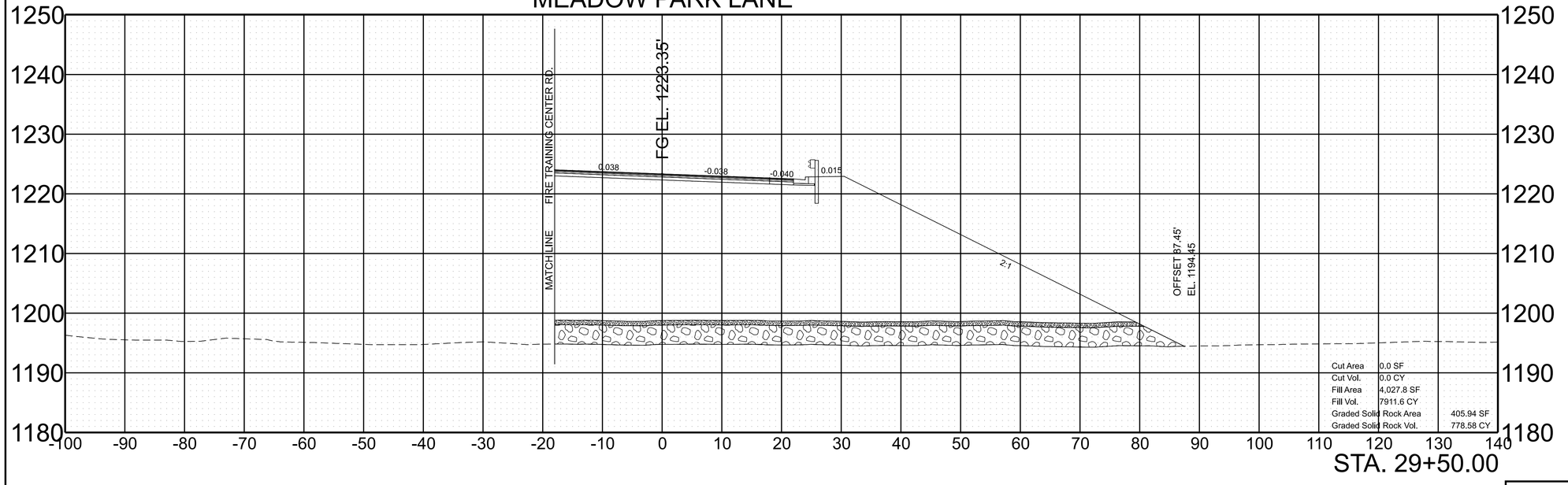
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	68
PIH	2026	82956-3594-04	71
PS&E	2026	82956-3594-04	71

MEADOW PARK LANE



Cut Area	0.0 SF	
Cut Vol.	0.0 CY	
Fill Area	2,726.9 SF	
Fill Vol.	6254.4 CY	
Graded Solid Rock Area		604.77 SF
Graded Solid Rock Vol.		935.84 CY

MEADOW PARK LANE



Cut Area	0.0 SF	
Cut Vol.	0.0 CY	
Fill Area	4,027.8 SF	
Fill Vol.	7911.6 CY	
Graded Solid Rock Area		405.94 SF
Graded Solid Rock Vol.		778.58 CY

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 29+50.00
	1"=10' VERT.	END STA. 30+00.00

5/19/2026 3:39:20 PM
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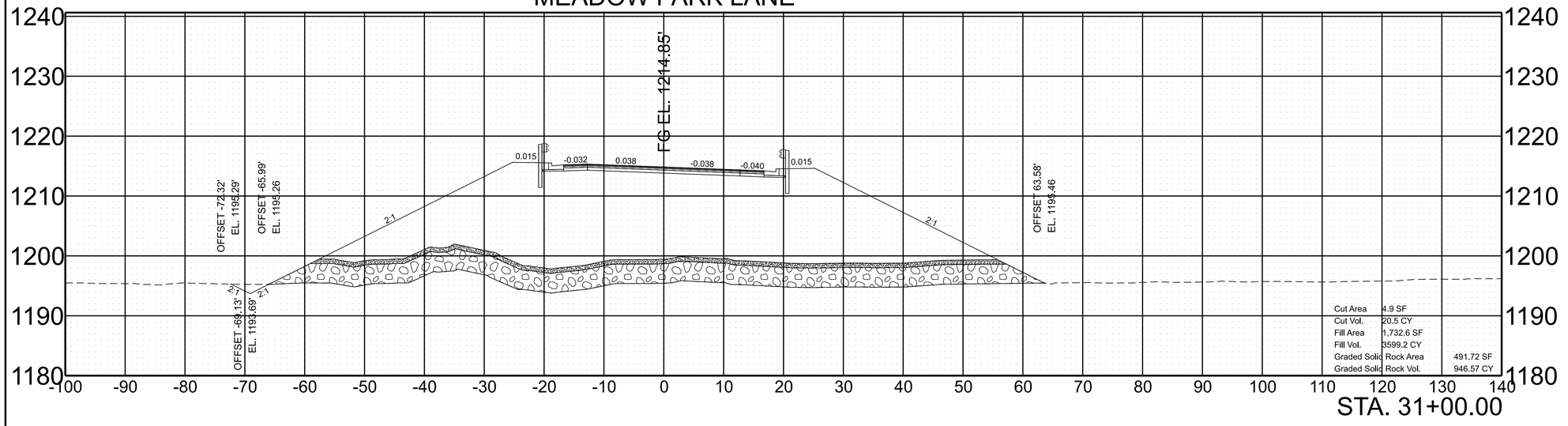
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	69
PIH	2026	82956-3594-04	72
PS&E	2026	82956-3594-04	72

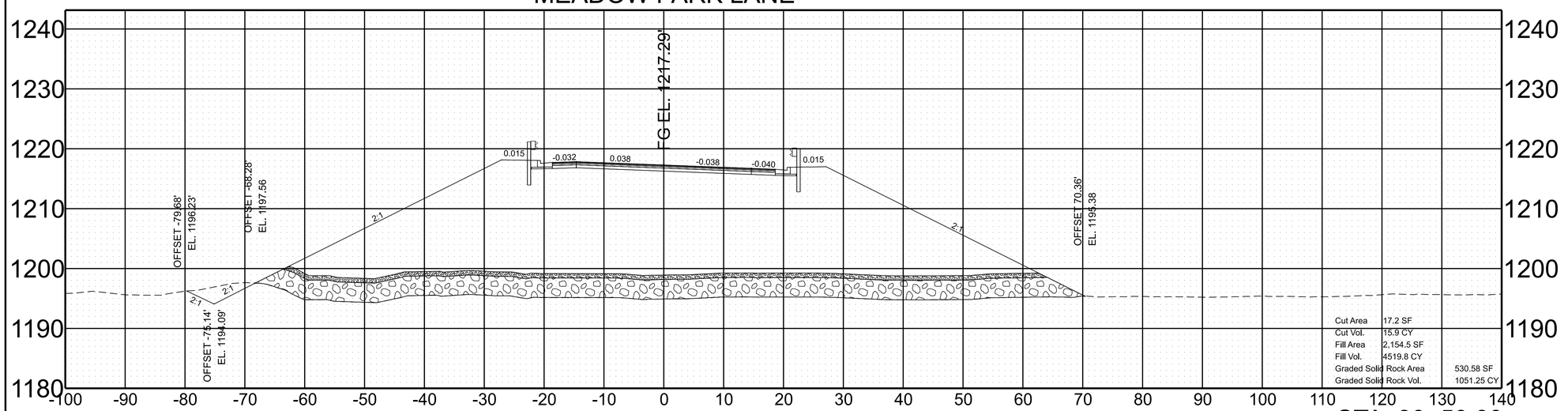
MEADOW PARK LANE



Cut Area	4.9 SF	
Cut Vol.	20.5 CY	
Fill Area	1,732.6 SF	
Fill Vol.	3599.2 CY	
Graded Solid	Rock Area	491.72 SF
Graded Solid	Rock Vol.	946.57 CY

STA. 31+00.00

MEADOW PARK LANE



Cut Area	17.2 SF	
Cut Vol.	15.9 CY	
Fill Area	2,154.5 SF	
Fill Vol.	4519.8 CY	
Graded Solid	Rock Area	530.58 SF
Graded Solid	Rock Vol.	1051.25 CY

STA. 30+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 30+50.00 END STA. 31+00.00

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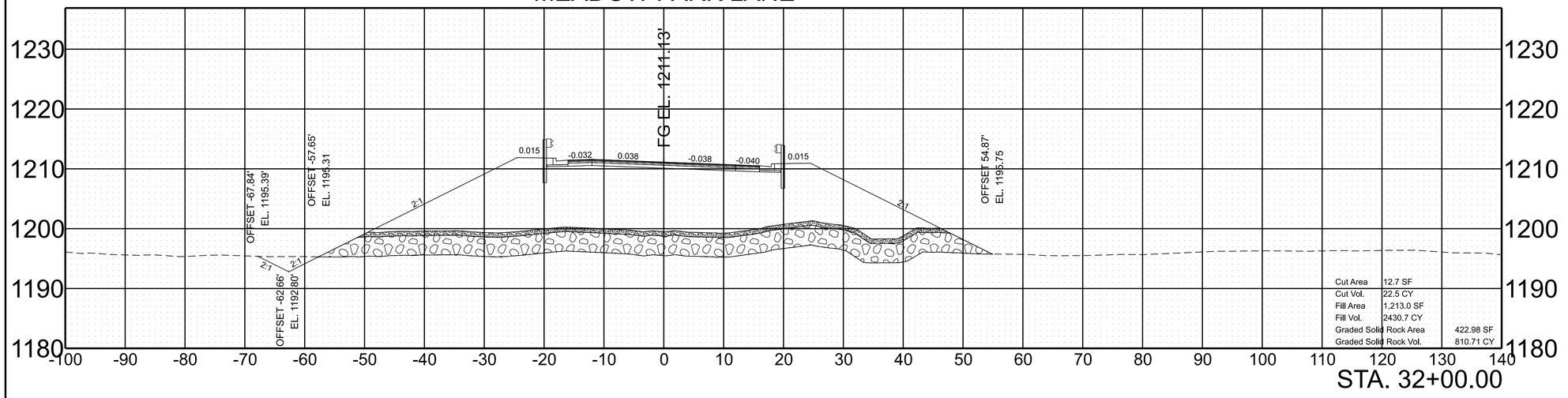
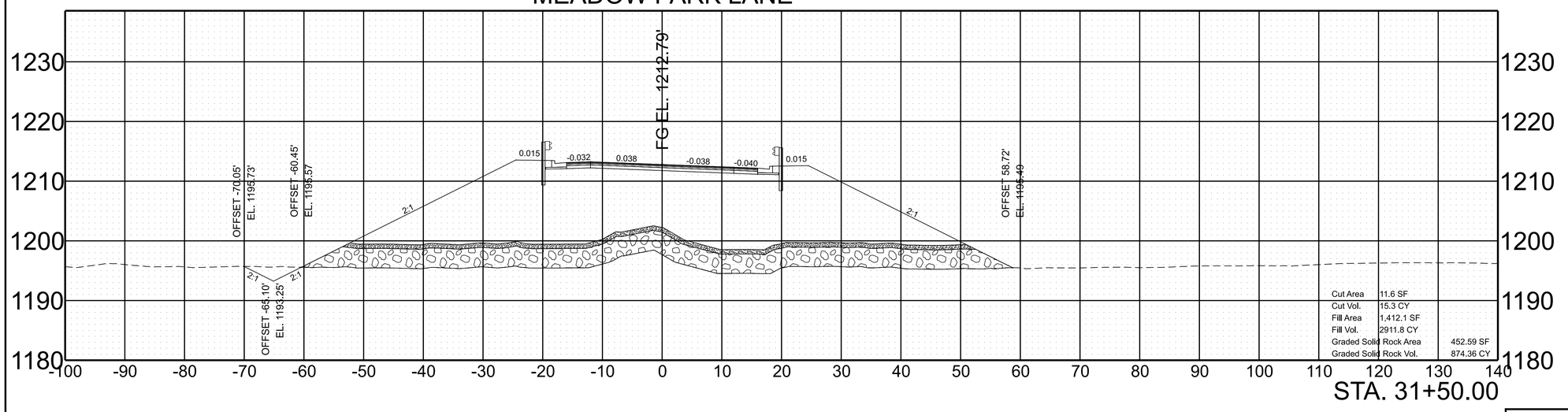
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	70
PIH	2026	82956-3594-04	73
PS&E	2026	82956-3594-04	73

MEADOW PARK LANE



STA. 32+00.00

MEADOW PARK LANE



STA. 31+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 31+50.00
	1"=10' VERT.	END STA. 32+00.00

5/19/2026 3:39:30 PM
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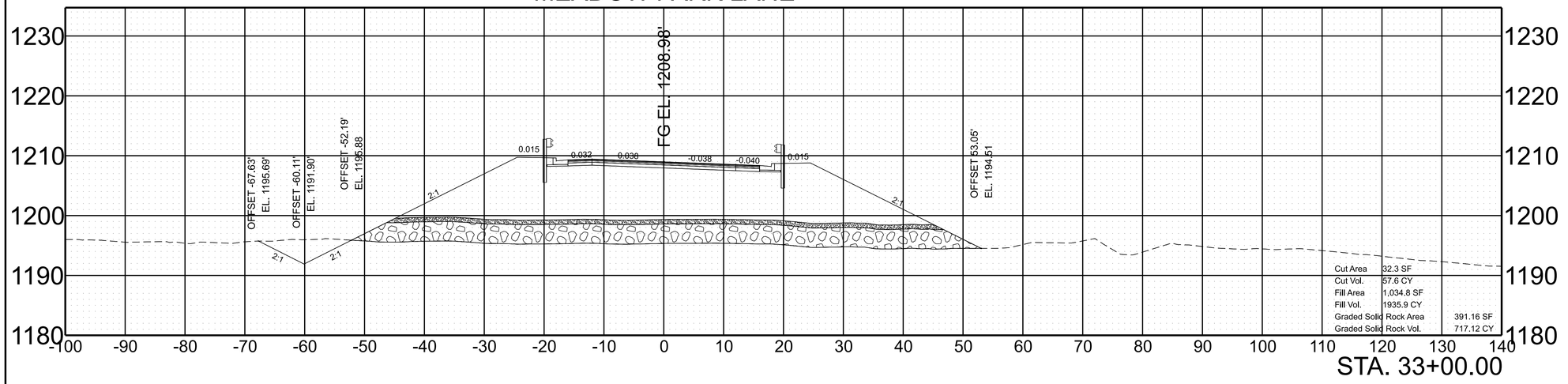
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	71
PIH	2026	82956-3594-04	74
PS&E	2026	82956-3594-04	74

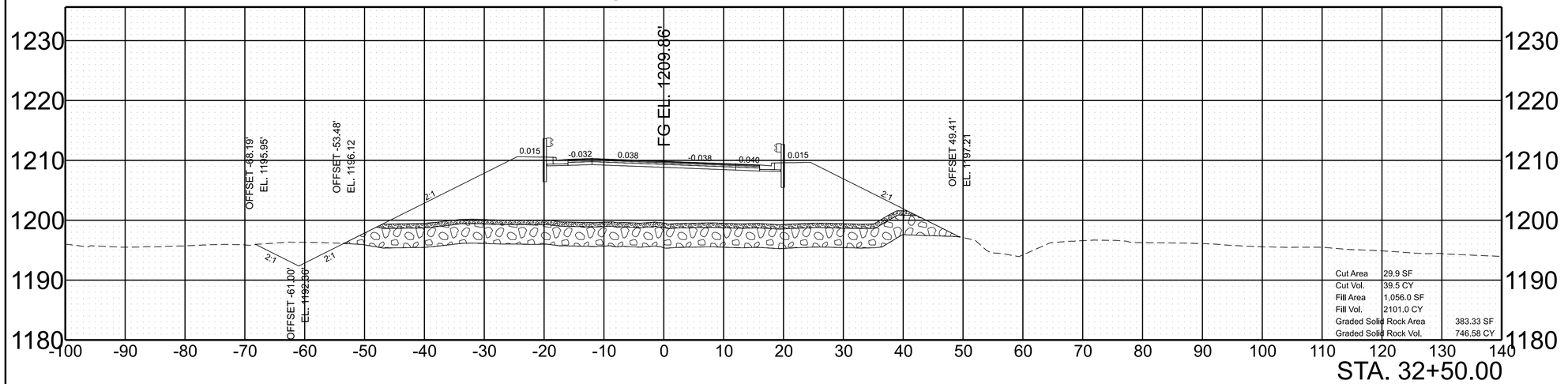
MEADOW PARK LANE



Cut Area	32.3 SF
Cut Vol.	57.6 CY
Fill Area	1,034.8 SF
Fill Vol.	1935.9 CY
Graded Solid Rock Area	391.16 SF
Graded Solid Rock Vol.	717.12 CY

STA. 33+00.00

MEADOW PARK LANE



Cut Area	29.9 SF
Cut Vol.	39.5 CY
Fill Area	1,056.0 SF
Fill Vol.	2101.0 CY
Graded Solid Rock Area	383.33 SF
Graded Solid Rock Vol.	746.58 CY

STA. 32+50.00

SCALE:		
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	1"=10' VERT.	END STA. 33+00.00

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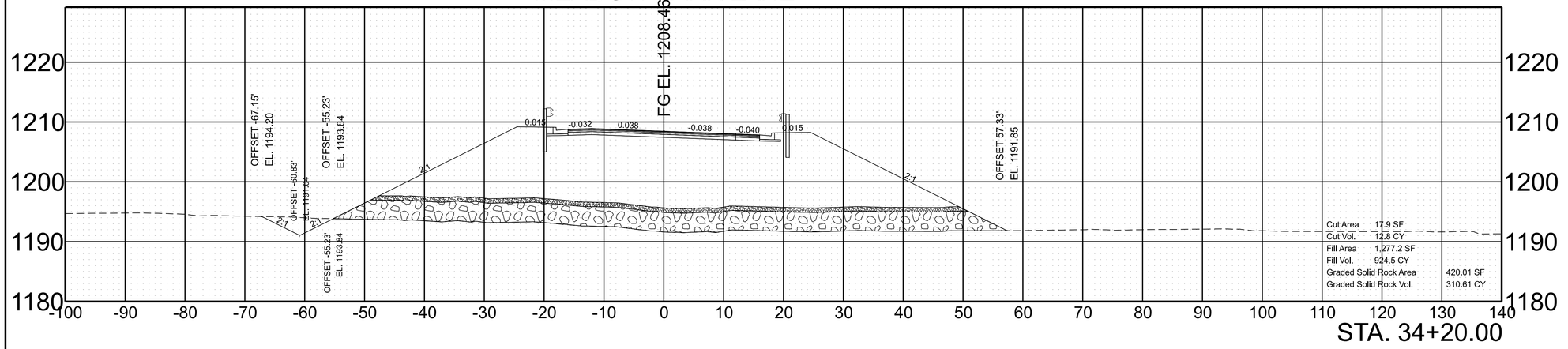
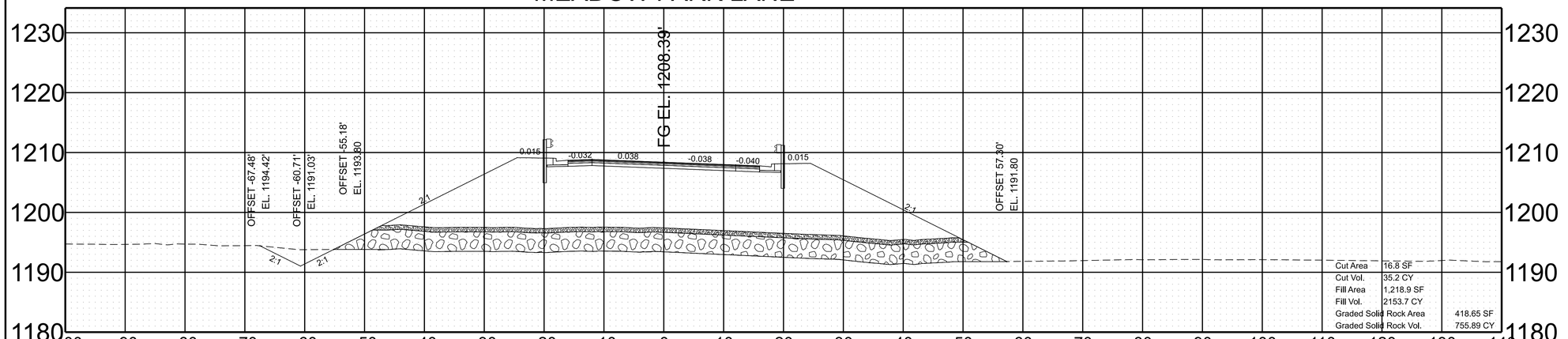
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	72
PIH	2026	82956-3594-04	75
PS&E	2026	82956-3594-04	75

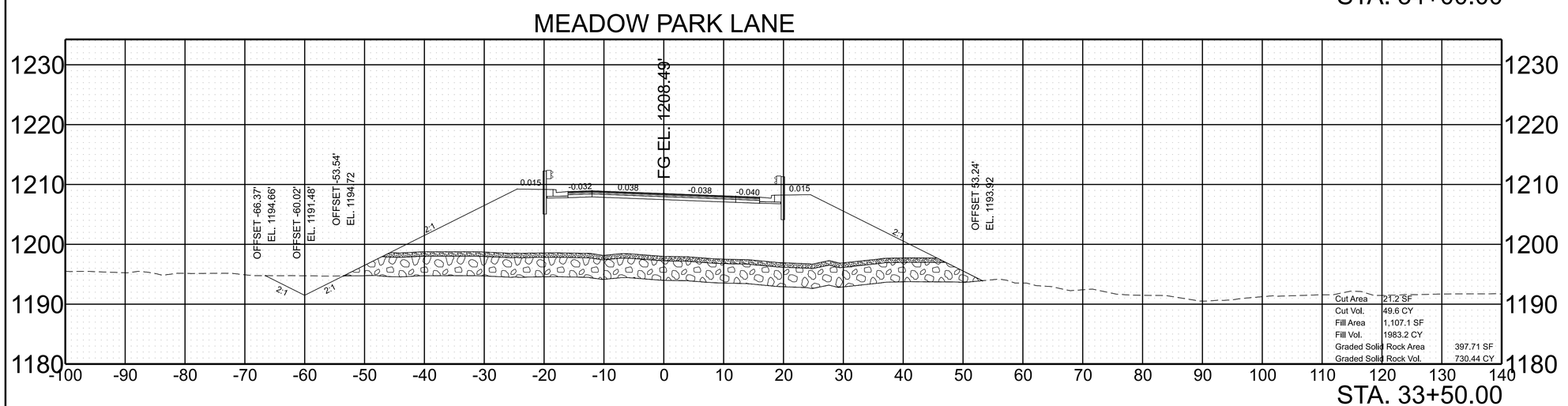
MEADOW PARK LANE



MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 33+50.00 END STA. 34+00.00

5/27/2026 3:14:42 PM
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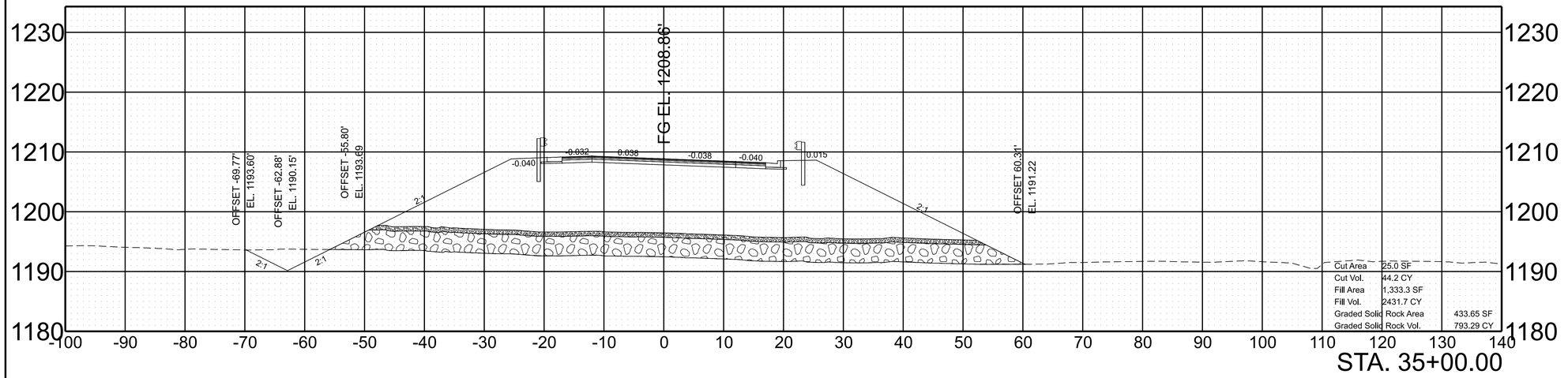
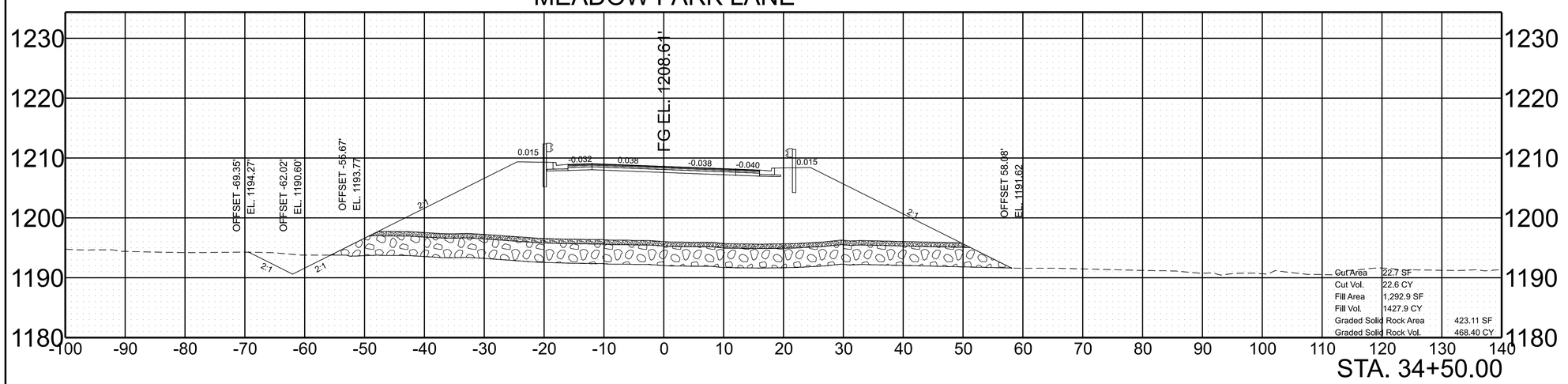
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	73
PIH	2026	82956-3594-04	76
PS&E	2026	82956-3594-04	76

MEADOW PARK LANE



STA. 35+00.00

MEADOW PARK LANE



STA. 34+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 34+50.00 END STA. 35+00.00

5/19/2026 3:39:44 PM
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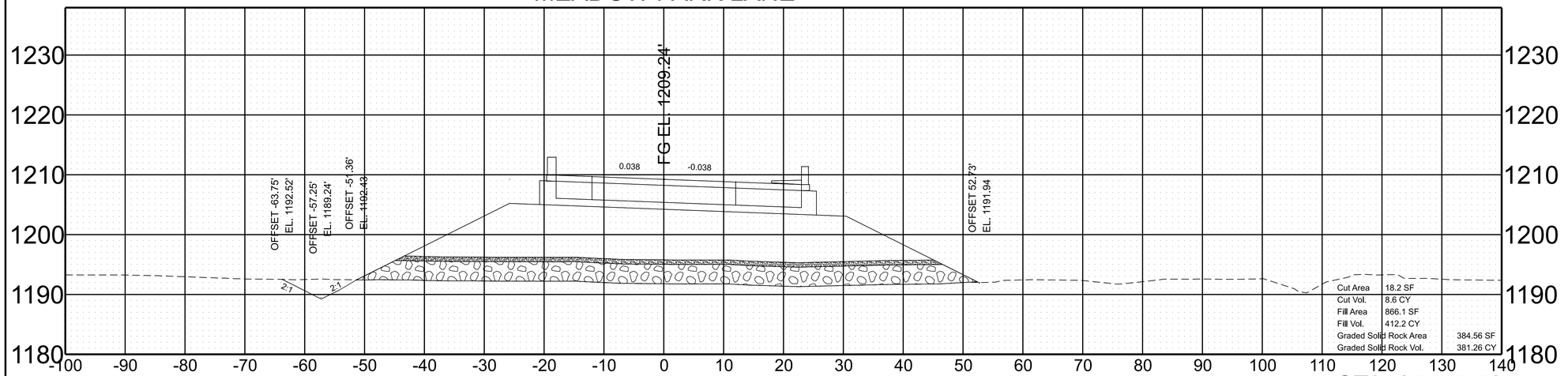
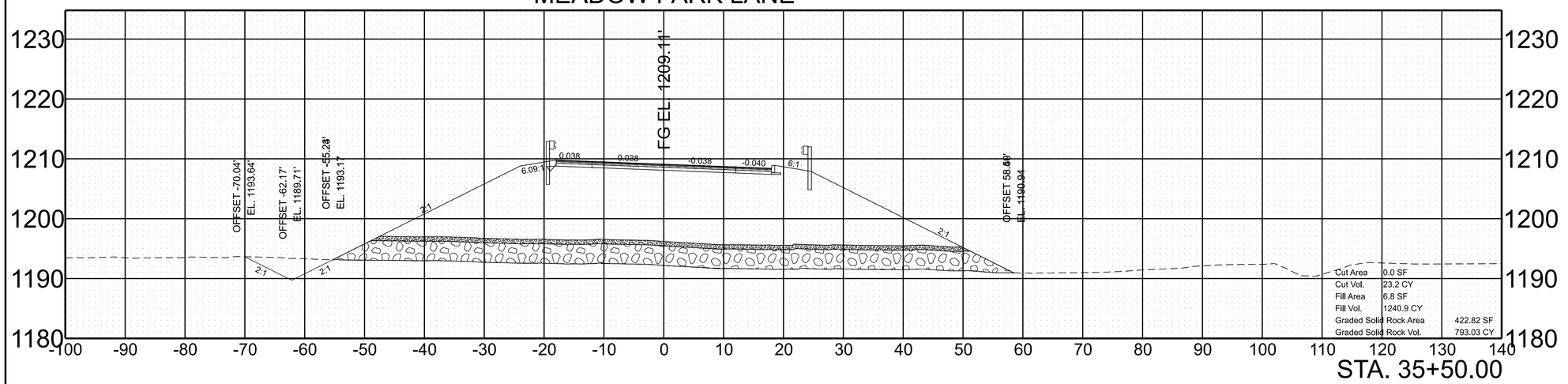
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	74
PIH	2026	82956-3594-04	77
PS&E	2026	82956-3594-04	77

MEADOW PARK LANE



BEGIN BRIDGE STA. 35+75.50

MEADOW PARK LANE



STA. 35+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 35+50.00
	1"=10' VERT.	END STA. 35+75.50

5/19/2026 3:39:48 PM
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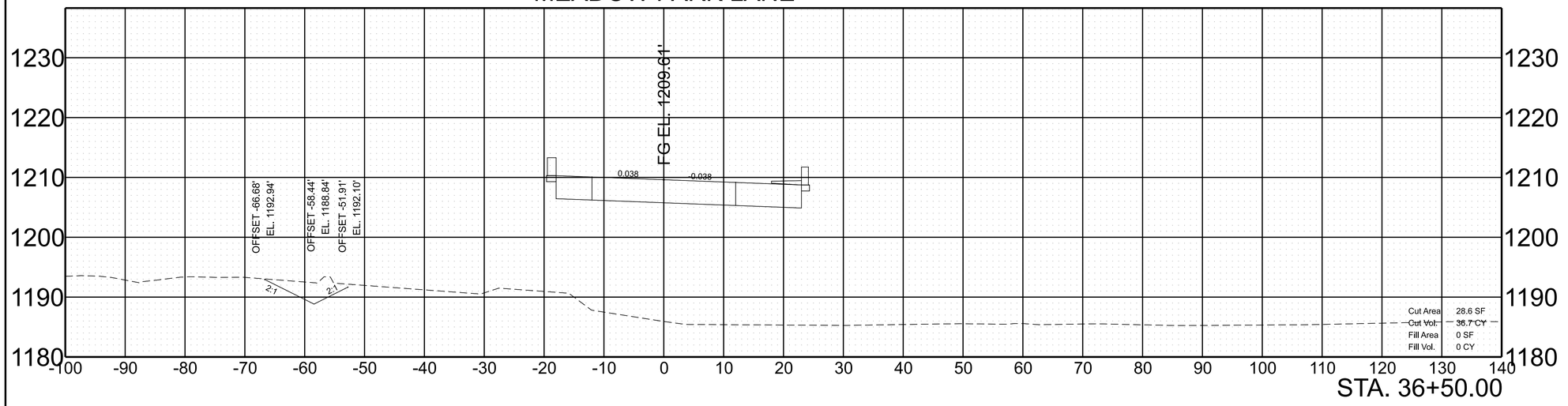
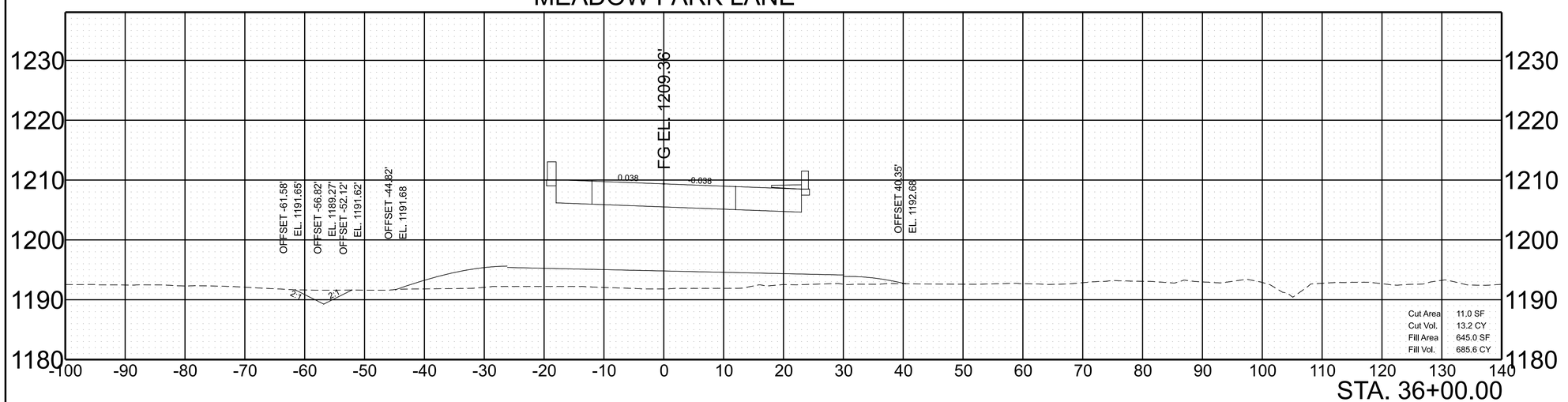
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	75
PIH	2026	82956-3594-04	78
PS&E	2026	82956-3594-04	78

MEADOW PARK LANE



STA. 36+50.00

MEADOW PARK LANE



STA. 36+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 36+00.00 END STA. 36+50.00

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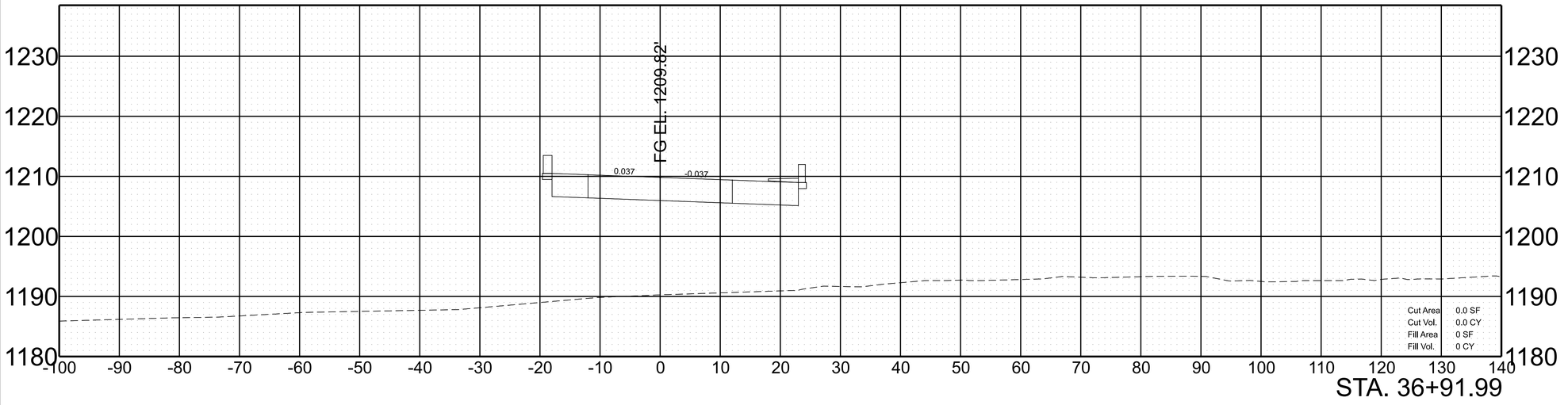
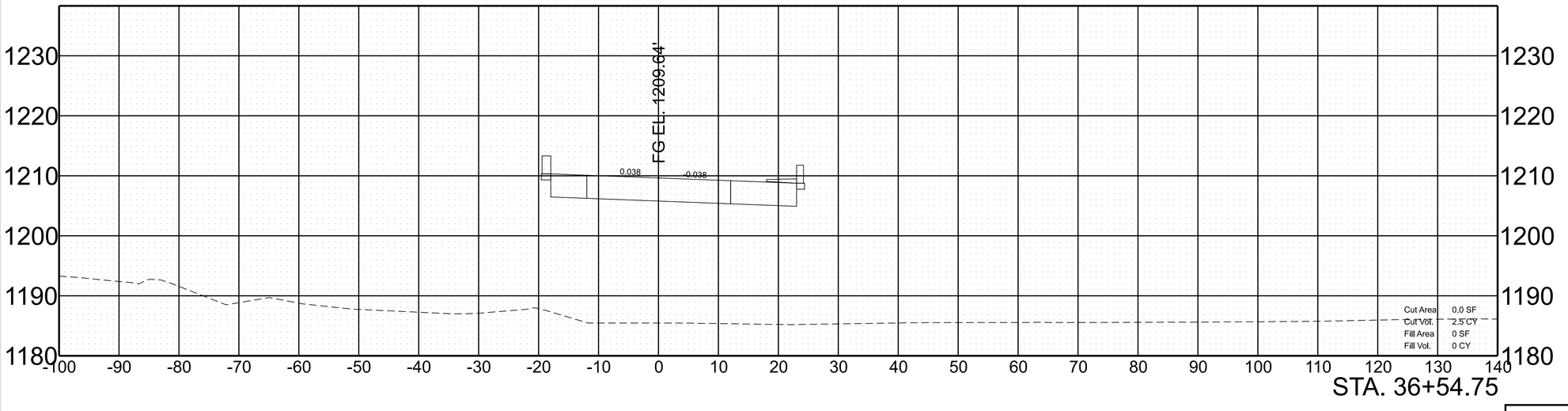
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	76
PIH	2026	82956-3594-04	79
PS&E	2026	82956-3594-04	79

MEADOW PARK LANE



STA. 36+91.99

MEADOW PARK LANE



STA. 36+54.75

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 36+54.75 END STA. 36+91.99

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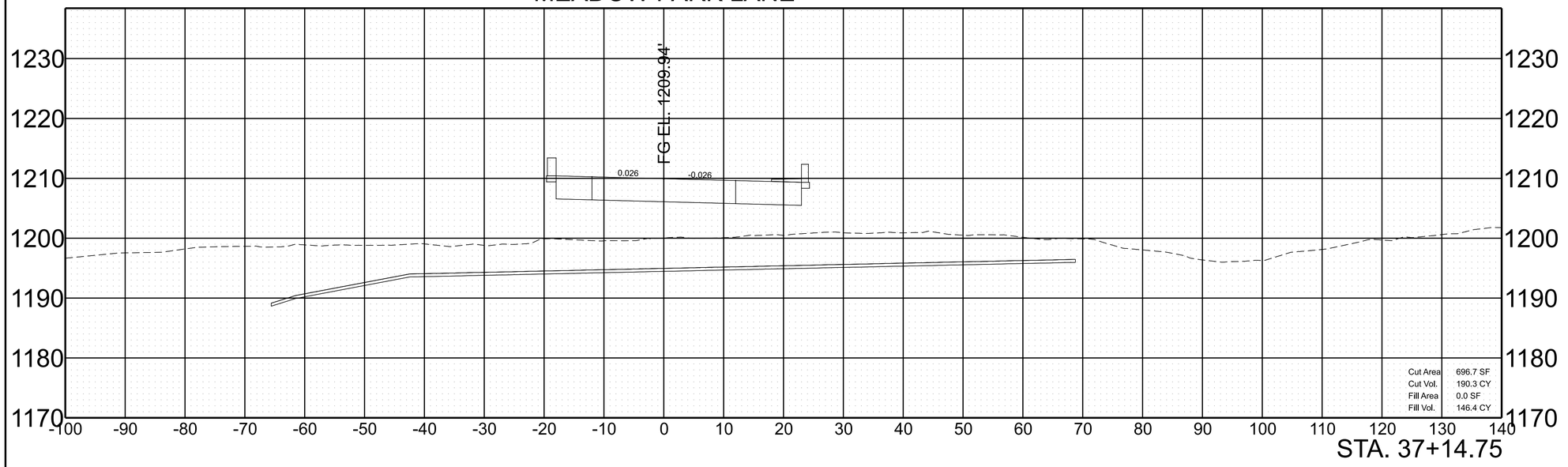
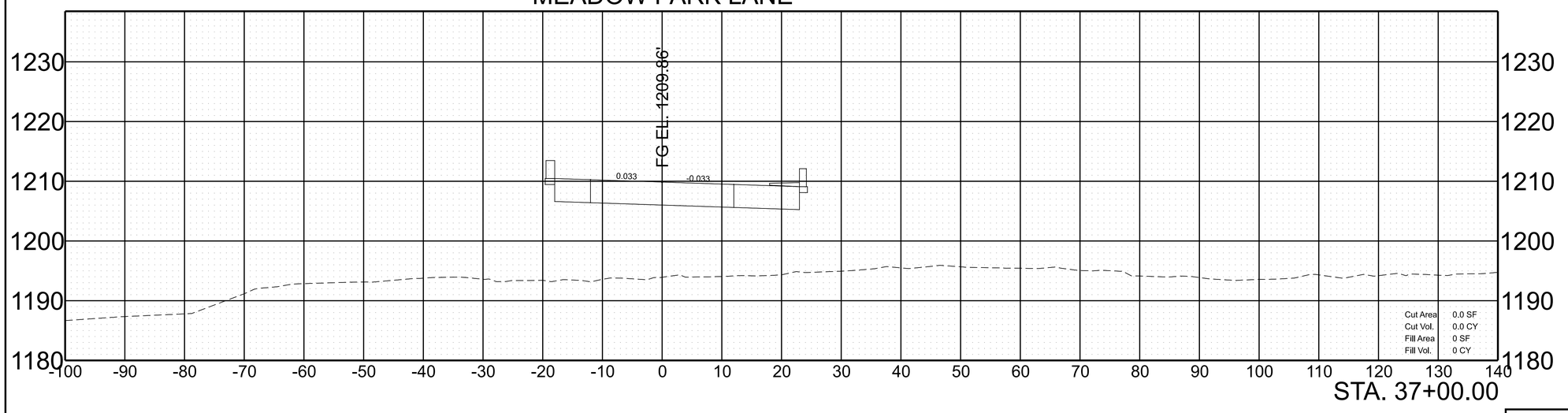
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	77
PIH	2026	82956-3594-04	80
PS&E	2026	82956-3594-04	80

MEADOW PARK LANE



STA. 37+14.75

MEADOW PARK LANE



STA. 37+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 37+00.00
	1"=10' VERT.	END STA. 37+14.75

5/19/2026 3:40:02 PM
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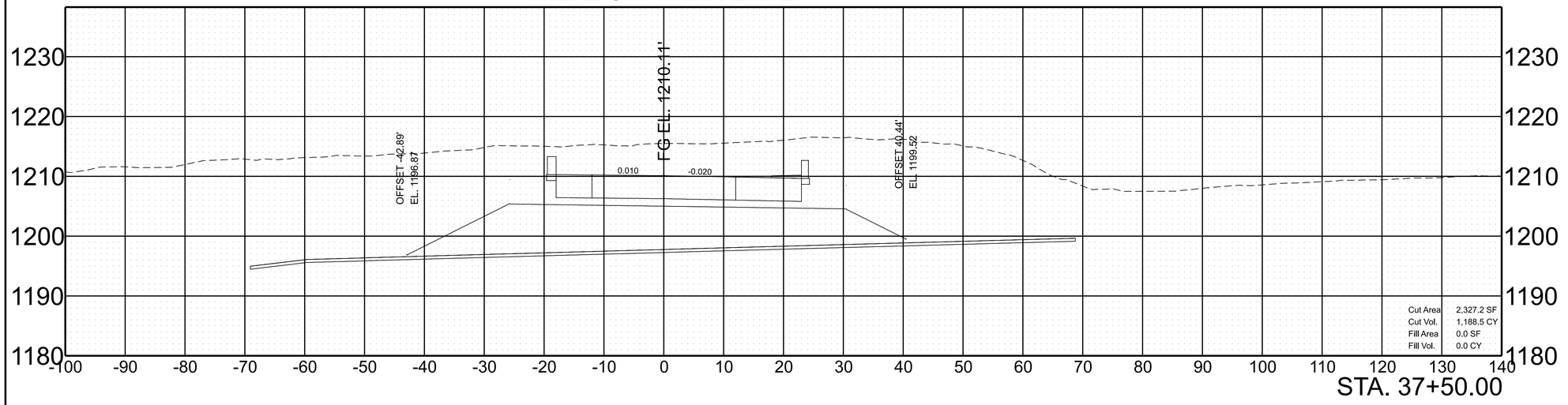
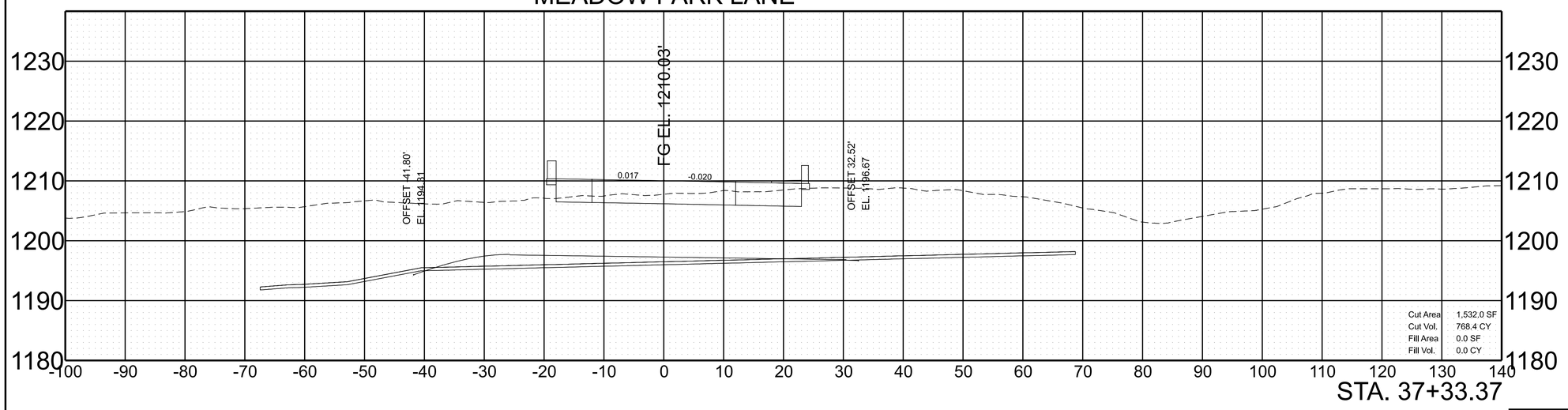
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	78
PIH	2026	82956-3594-04	81
PS&E	2026	82956-3594-04	81

MEADOW PARK LANE



STA. 37+50.00

MEADOW PARK LANE



STA. 37+33.37

SCALE:	1"=10' HORIZ.	BEGIN STA. 37+33.37
	1"=10' VERT.	END STA. 37+50.00

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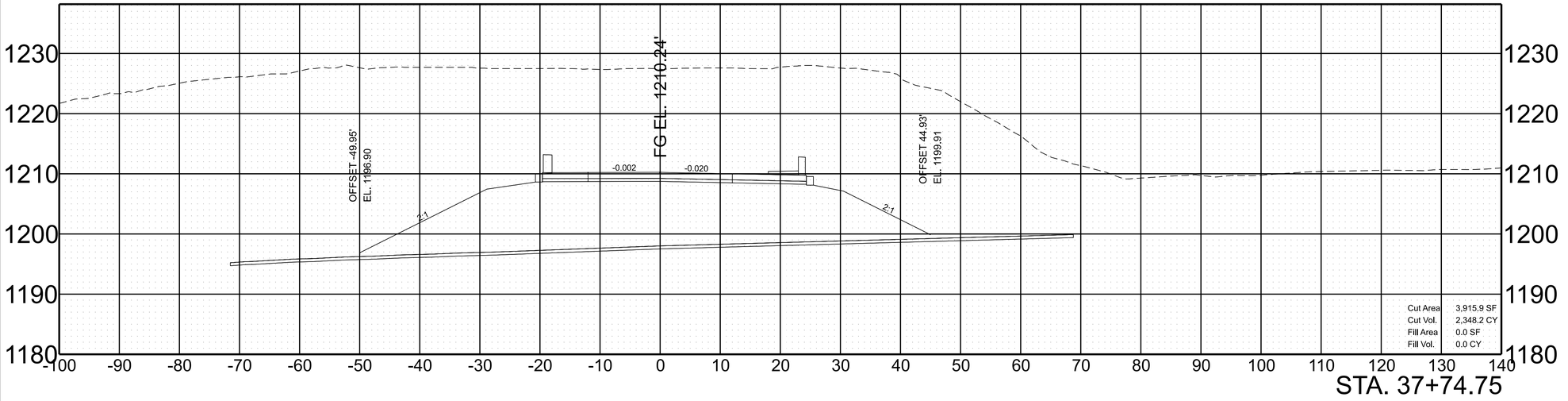
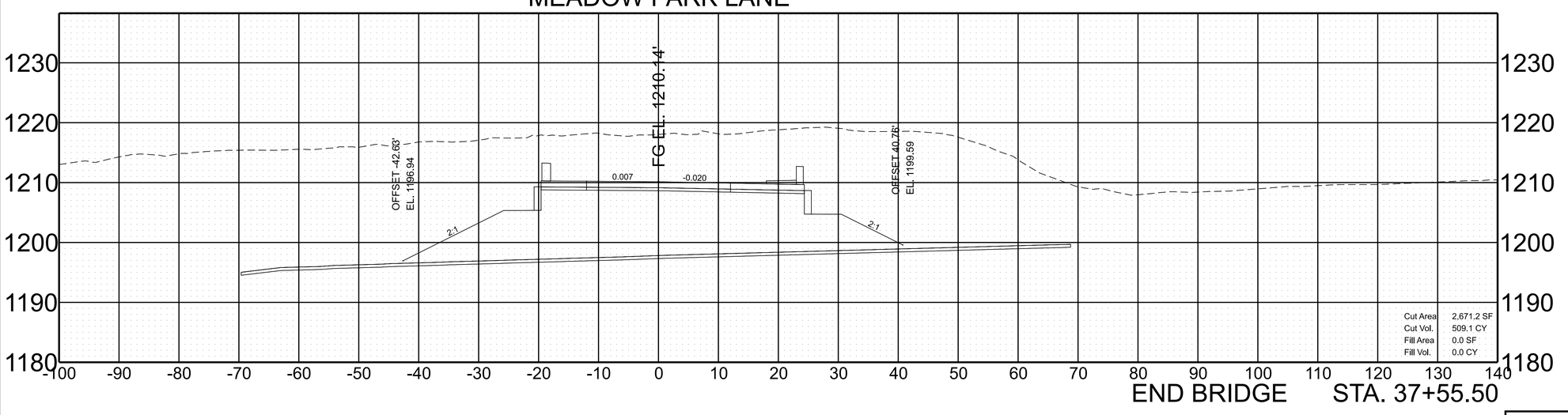
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	79
PIH	2026	82956-3594-04	82
PS&E	2026	82956-3594-04	82

MEADOW PARK LANE



STA. 37+74.75

MEADOW PARK LANE



END BRIDGE STA. 37+55.50

SCALE:	1"=10' HORIZ.	BEGIN STA. 37+55.50
	1"=10' VERT.	END STA. 37+74.75

5/19/2026 3:40:10 PM
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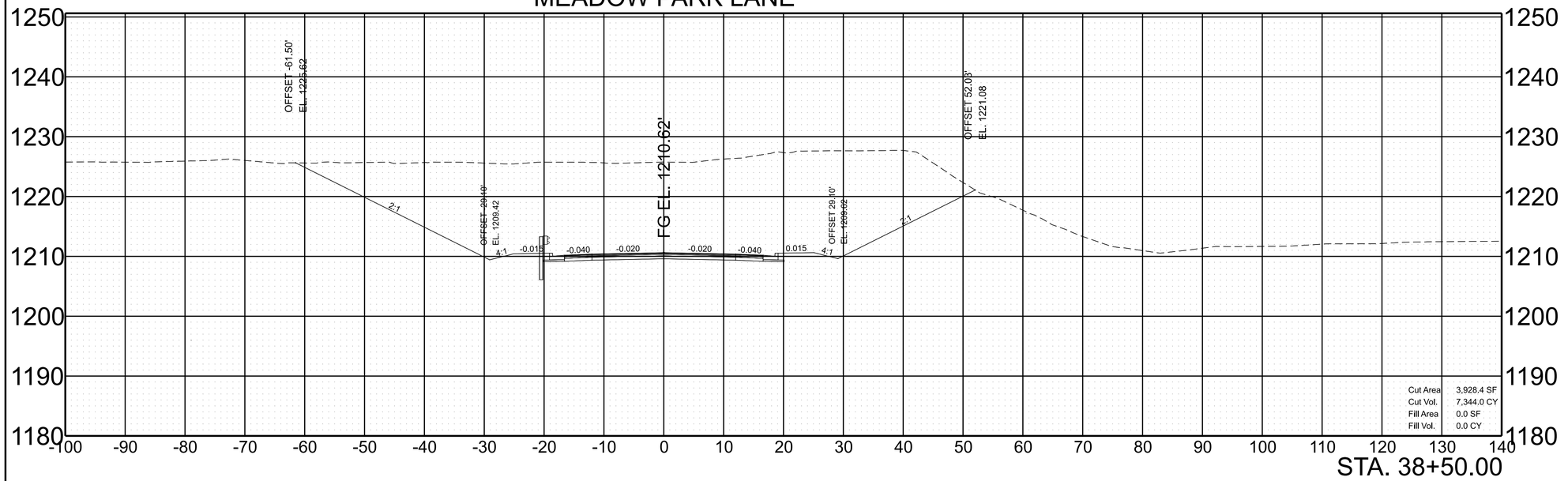
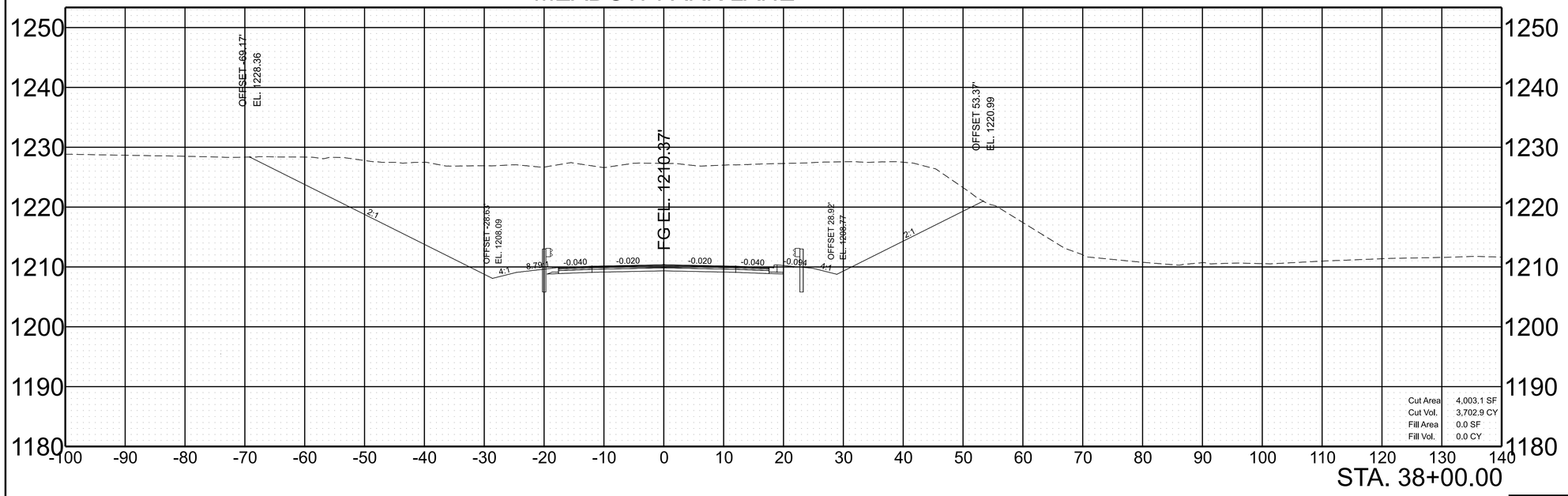
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	80
PIH	2026	82956-3594-04	83
PS&E	2026	82956-3594-04	83

MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 38+00.00 END STA. 38+50.00

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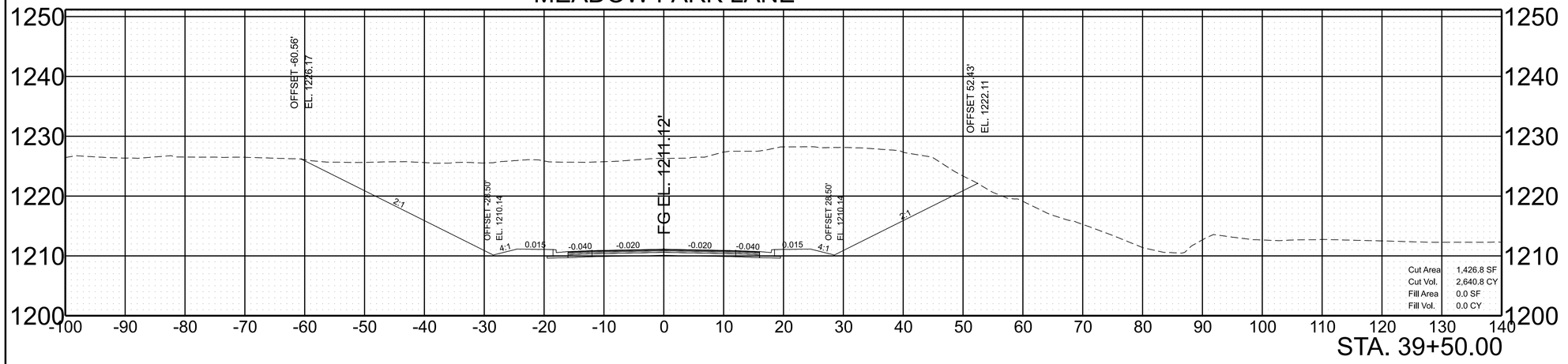
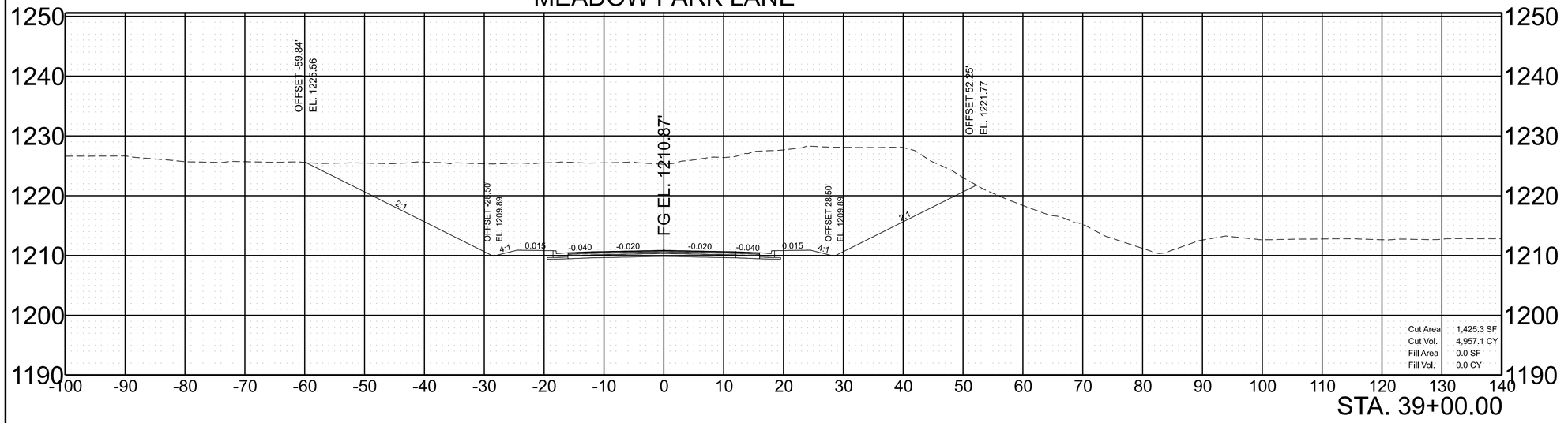
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	81
PIH	2026	82956-3594-04	84
PS&E	2026	82956-3594-04	84

MEADOW PARK LANE



STA. 39+50.00

MEADOW PARK LANE



STA. 39+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 39+00.00
	1"=10' VERT.	END STA. 39+50.00

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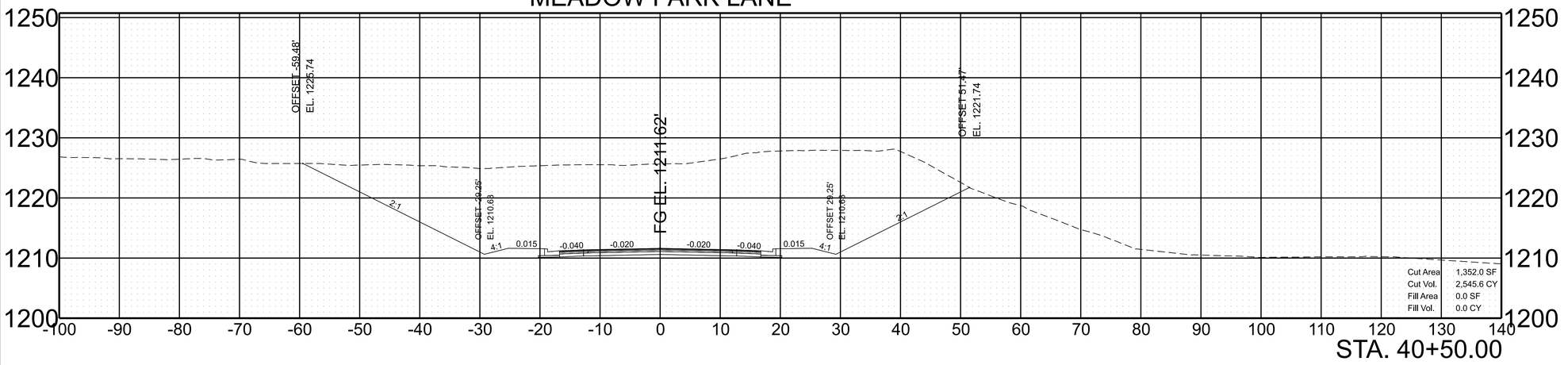
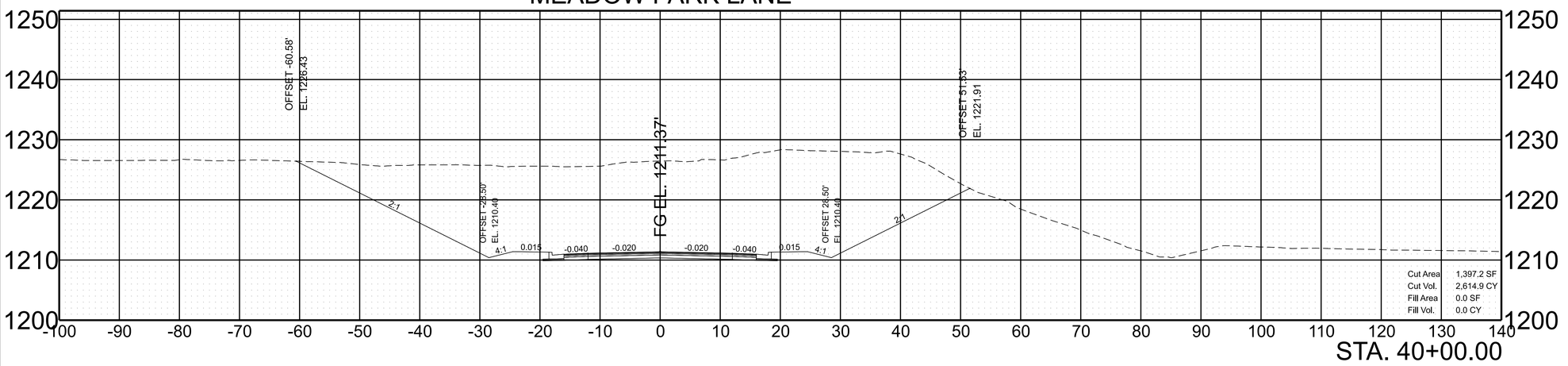
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	82
PIH	2026	82956-3594-04	85
PS&E	2026	82956-3594-04	85

MEADOW PARK LANE



STA. 40+50.00

MEADOW PARK LANE



STA. 40+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 40+00.00
	1"=10' VERT.	END STA. 40+50.00

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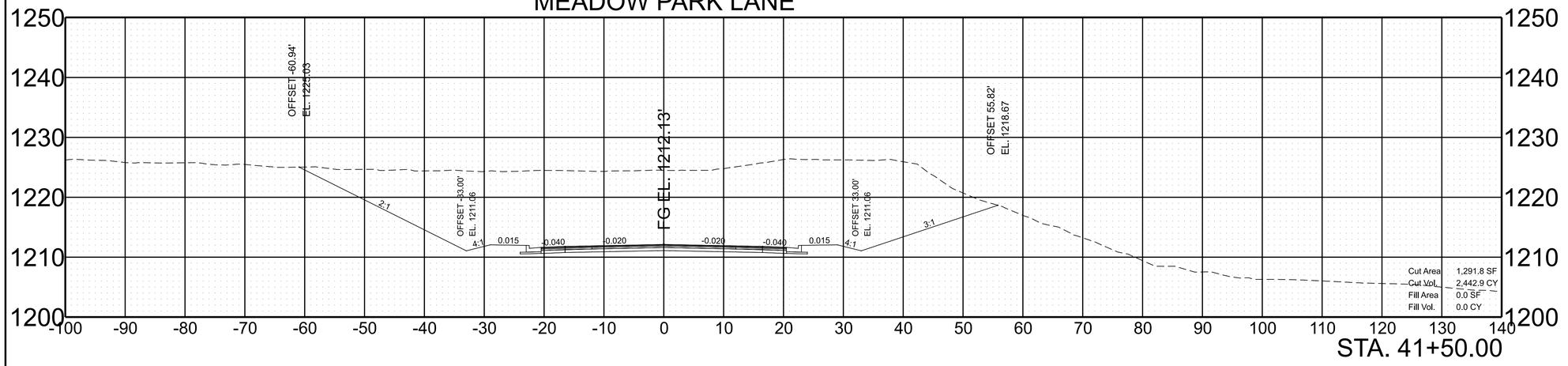
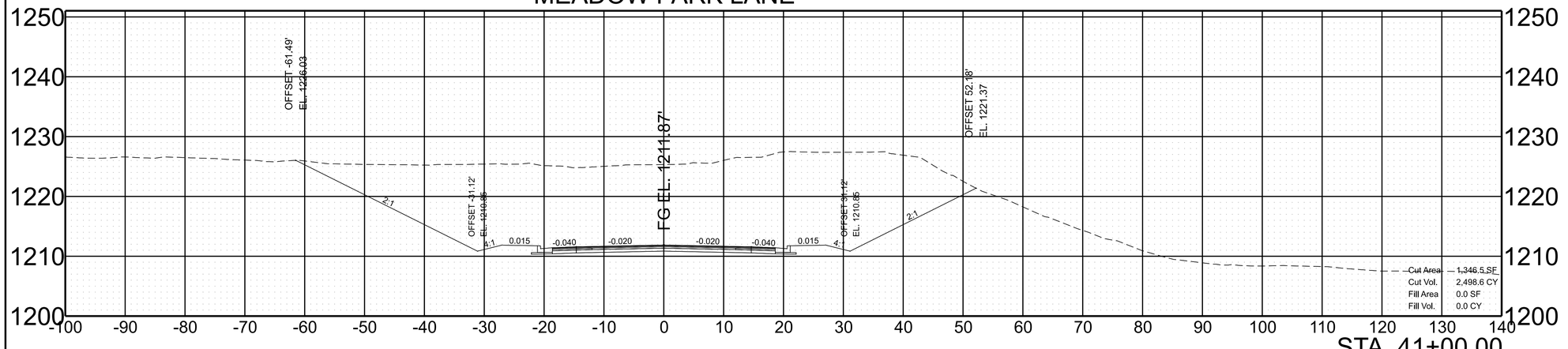
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	83
PIH	2026	82956-3594-04	86
PS&E	2026	82956-3594-04	86

MEADOW PARK LANE



STA. 41+50.00

MEADOW PARK LANE



STA. 41+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 41+00.00 END STA. 41+50.00

5/19/2026 3:40:30 PM
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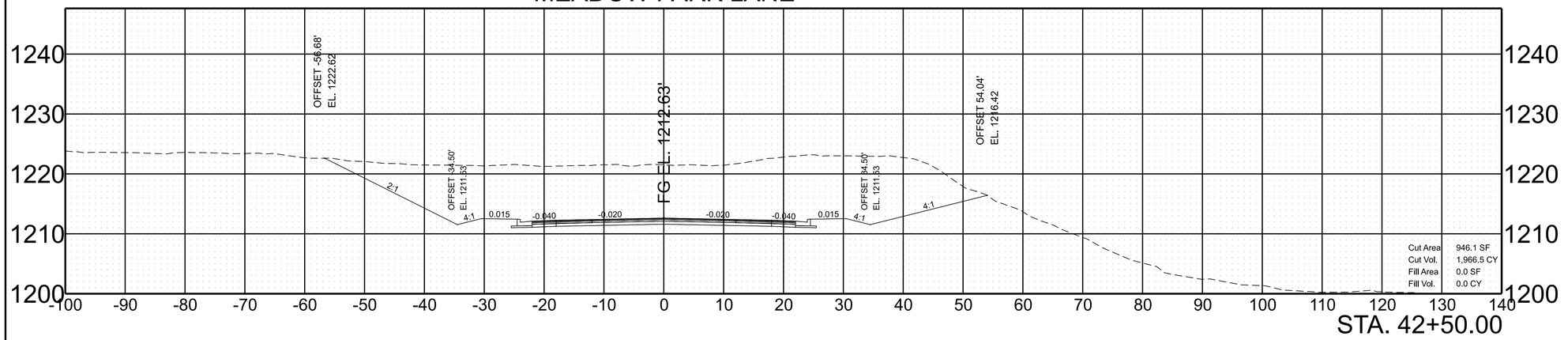
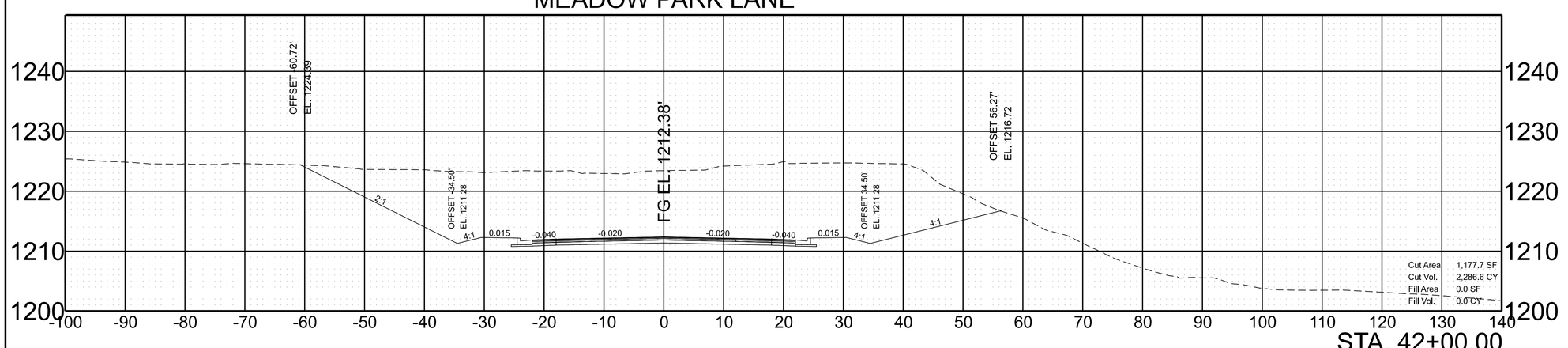
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	84
PIH	2026	82956-3594-04	87
PS&E	2026	82956-3594-04	87

MEADOW PARK LANE



STA. 42+50.00

MEADOW PARK LANE



STA. 42+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 42+00.00
	1"=10' VERT.	END STA. 42+50.00

5/19/2026 3:40:36 PM
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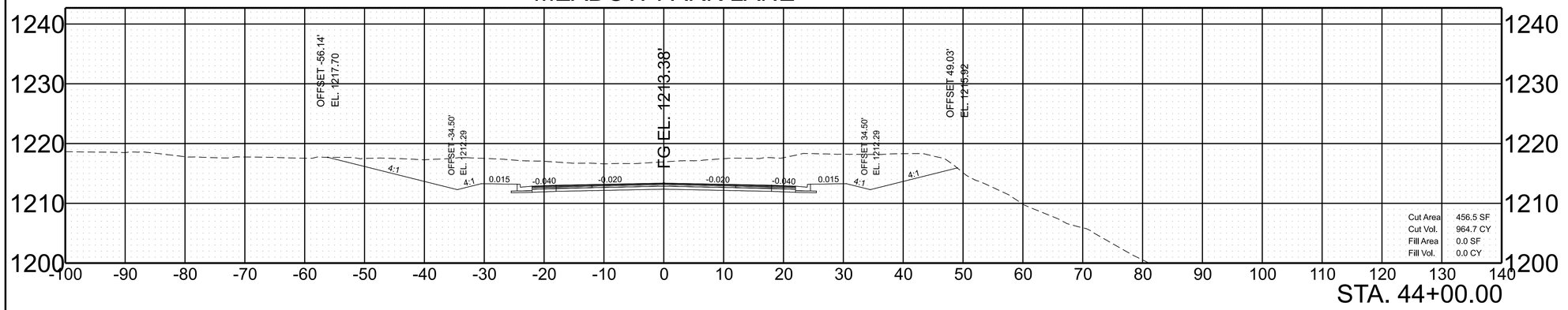
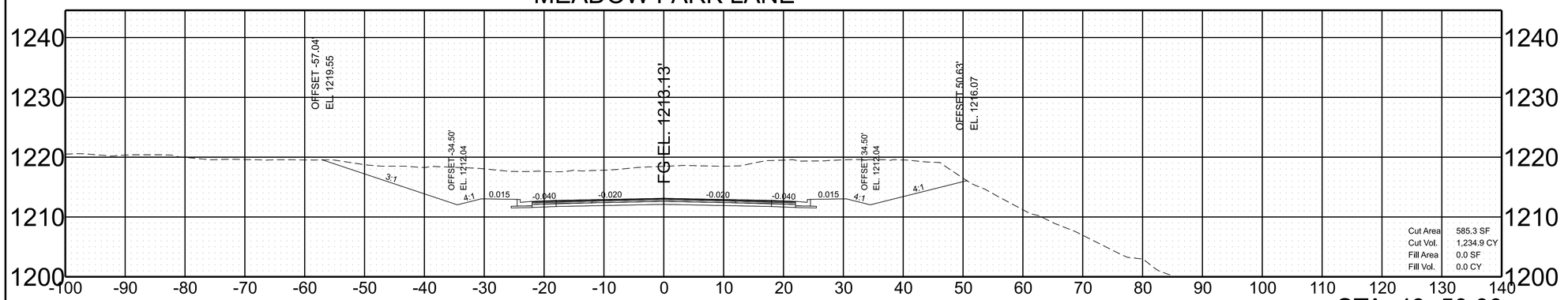
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	85
PIH	2026	82956-3594-04	88
PS&E	2026	82956-3594-04	88

MEADOW PARK LANE



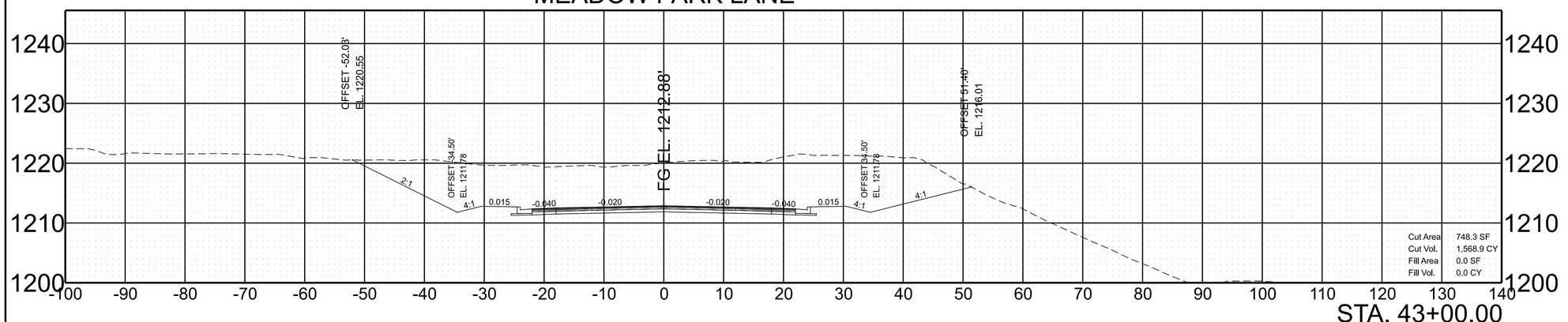
STA. 44+00.00

MEADOW PARK LANE



STA. 43+50.00

MEADOW PARK LANE



STA. 43+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 43+00.00
	1"=10' VERT.	END STA. 44+00.00

5/19/2026 3:40:41 PM
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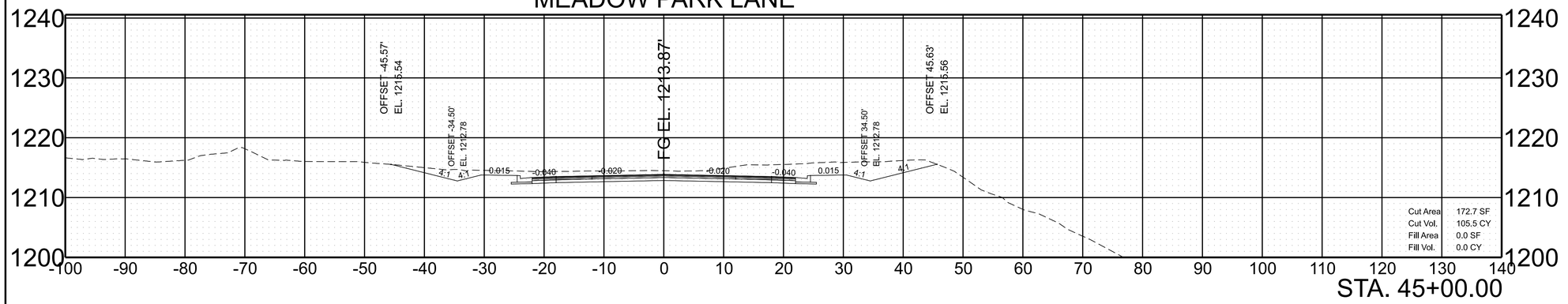
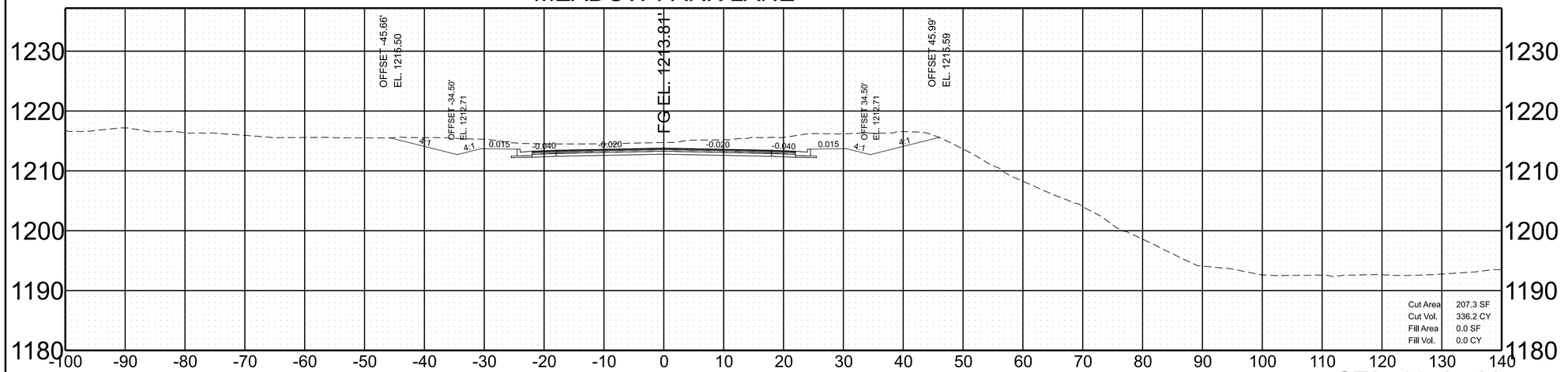
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	86
PIH	2026	82956-3594-04	89
PS&E	2026	82956-3594-04	89

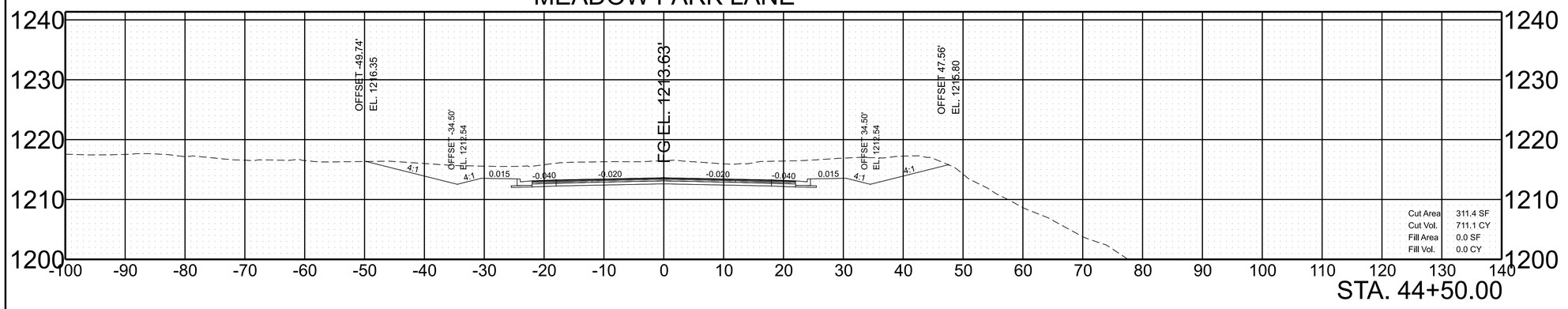
MEADOW PARK LANE



MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 44+50.00 END STA. 45+50.00

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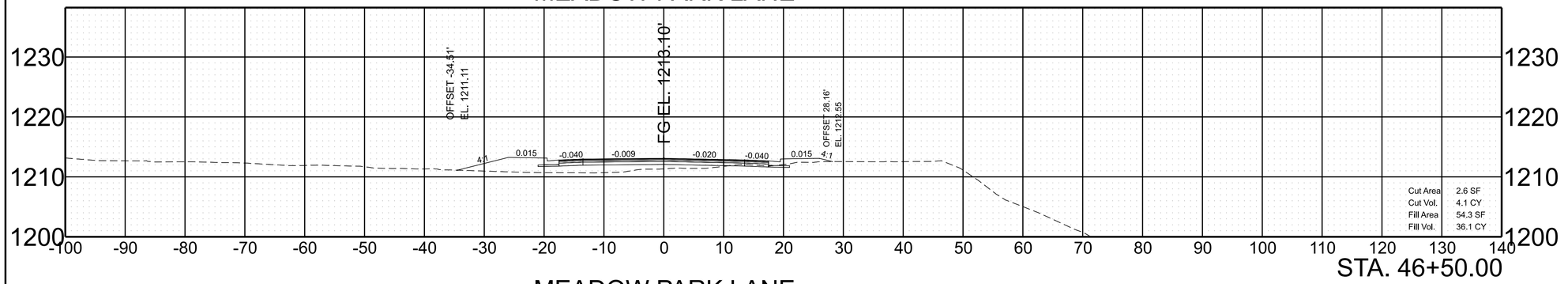
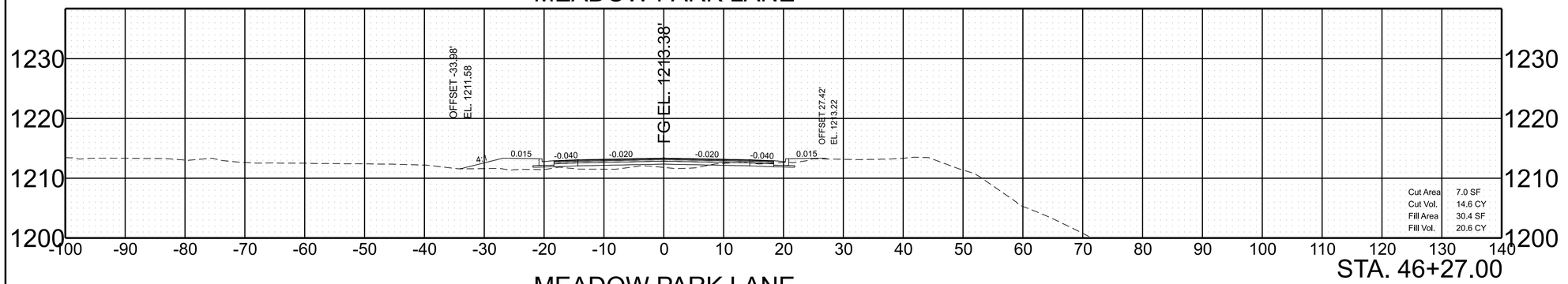
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	87
PIH	2026	82956-3594-04	90
PS&E	2026	82956-3594-04	90

MEADOW PARK LANE



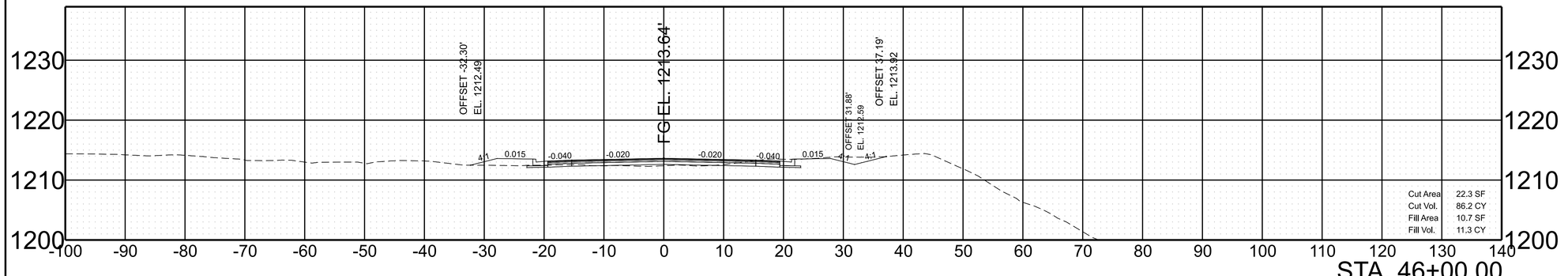
STA. 46+50.00

MEADOW PARK LANE



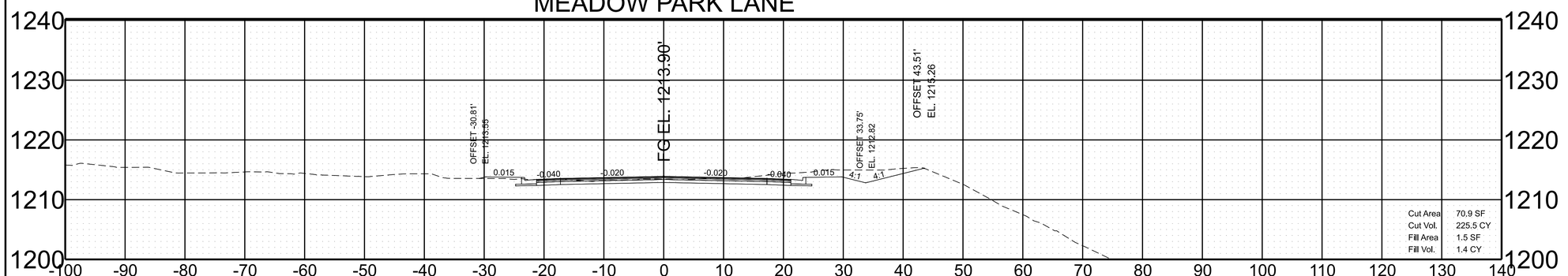
STA. 46+27.00

MEADOW PARK LANE



STA. 46+00.00

MEADOW PARK LANE



STA. 45+50.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 46+00.00
	1"=10' VERT.	END STA. 46+50.00

5/22/2026 11:20:07 AM
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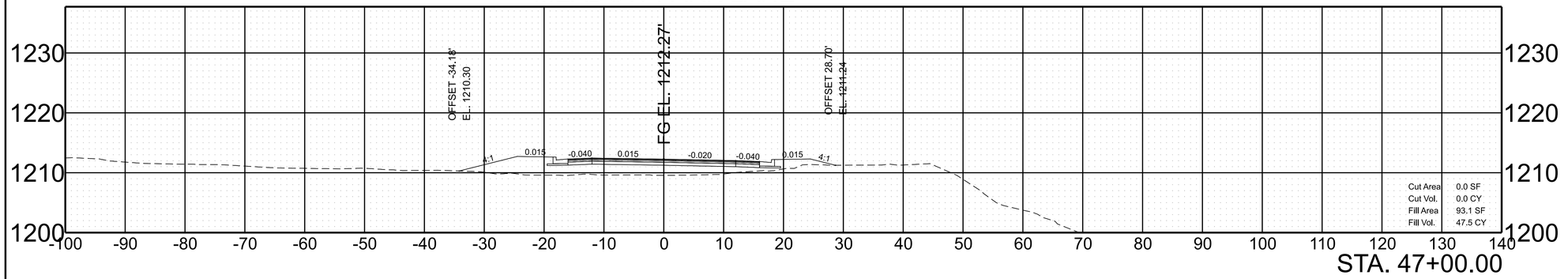
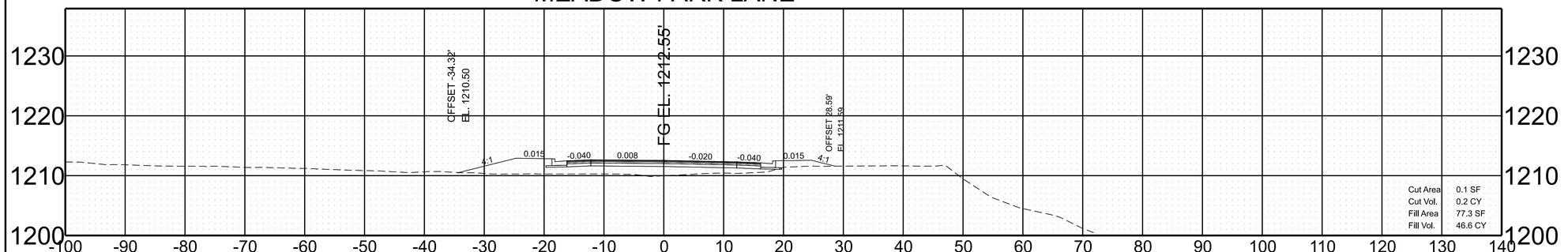
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	88
PIH	2026	82956-3594-04	91
PS&E	2026	82956-3594-04	91

MEADOW PARK LANE



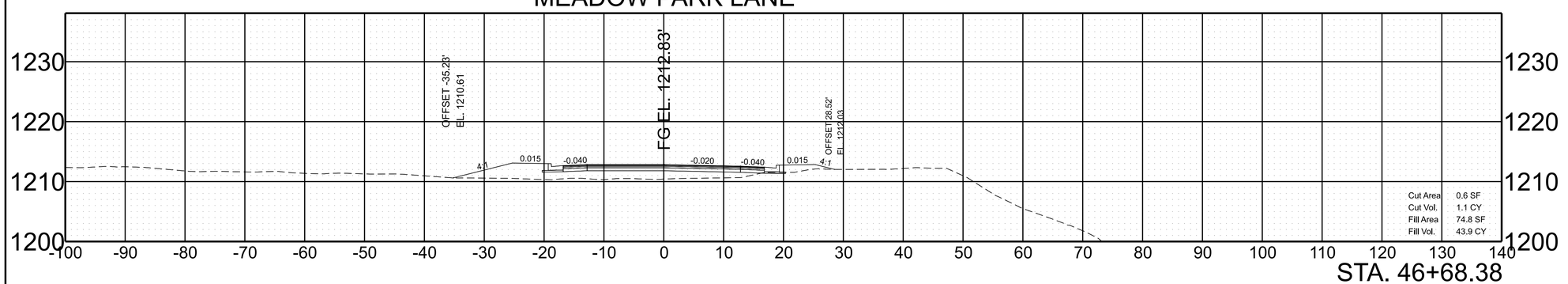
STA. 47+00.00

MEADOW PARK LANE



STA. 46+84.93

MEADOW PARK LANE



STA. 46+68.38

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 46+68.38 END STA. 47+00.00

5/22/2026 11:20:22 AM
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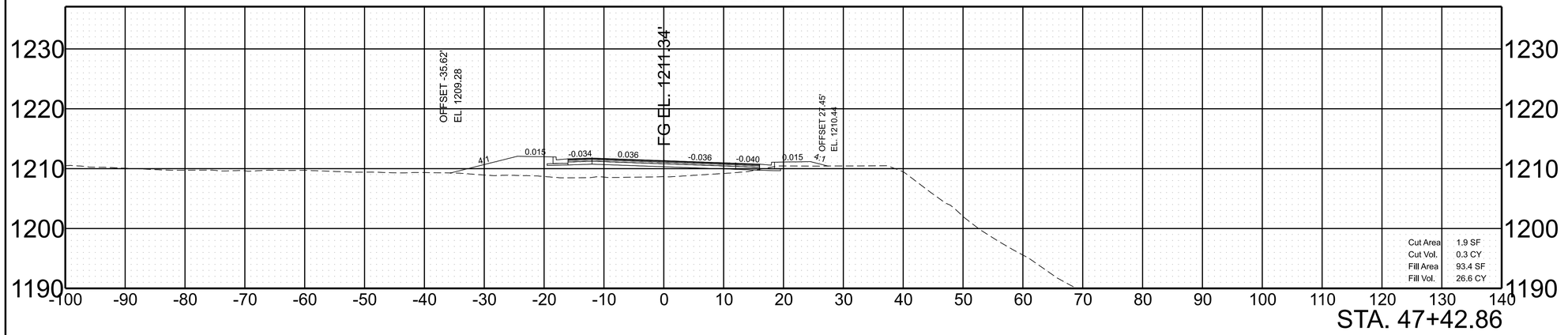
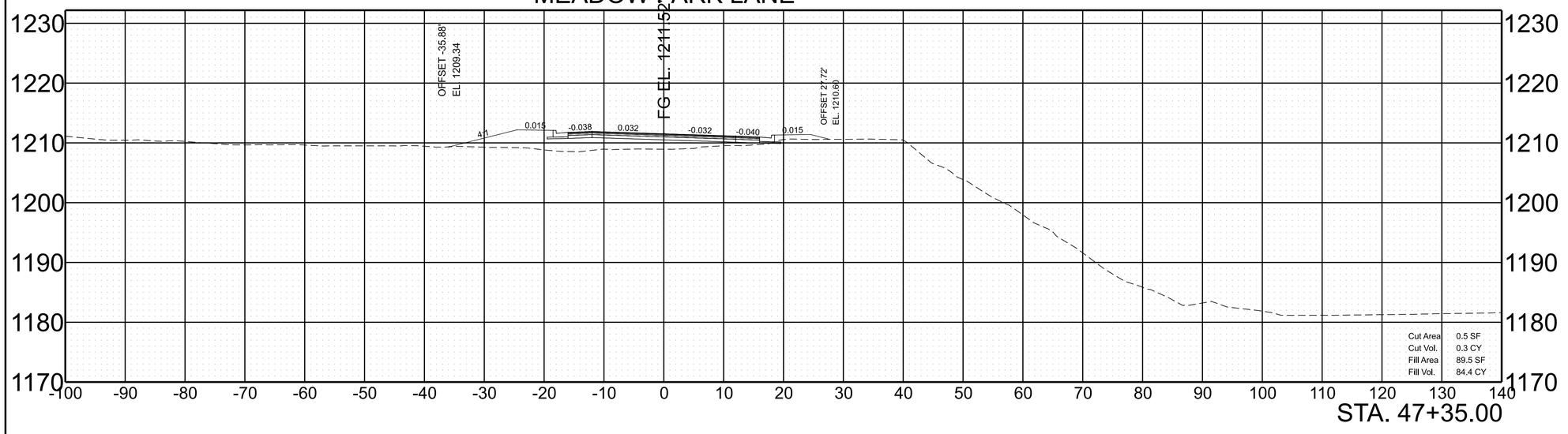
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	89
PIH	2026	82956-3594-04	92
PS&E	2026	82956-3594-04	92

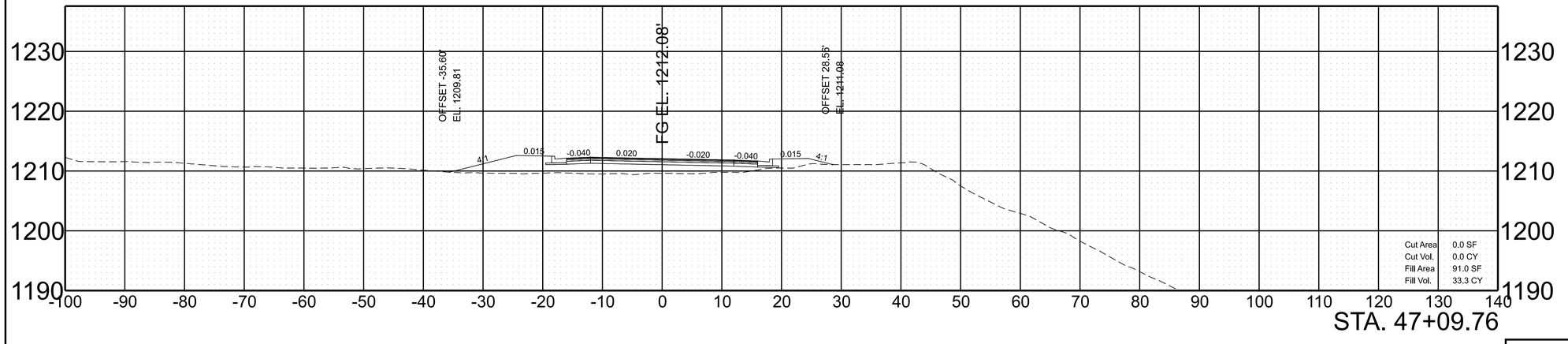
MEADOW PARK LANE



MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 47+09.76 END STA. 47+42.86

5/22/2026 11:20:27 AM
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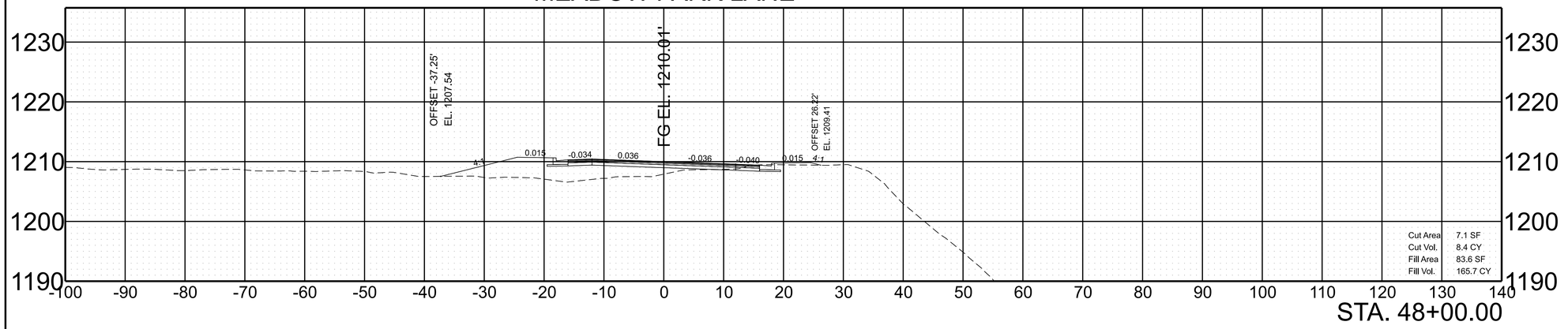
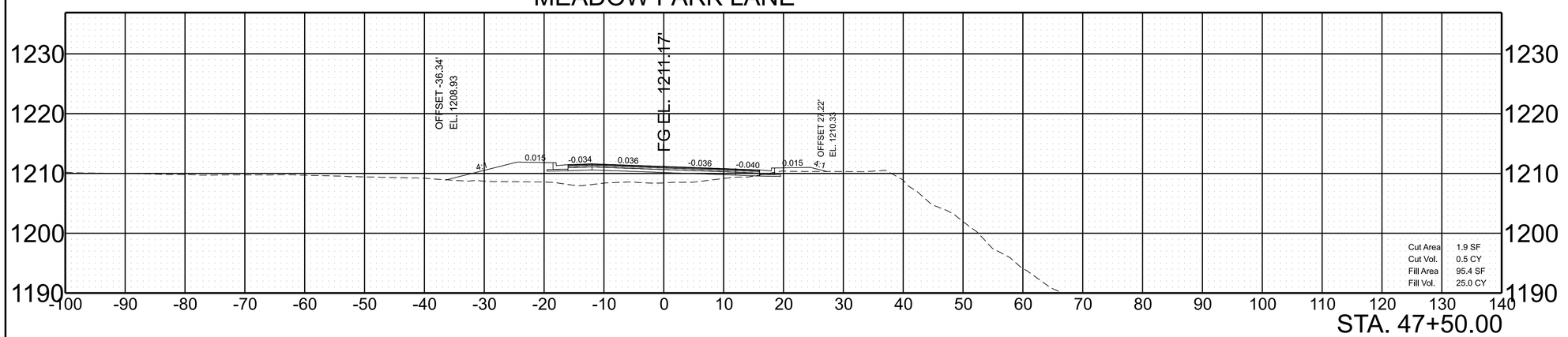
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	90
PIH	2026	82956-3594-04	93
PS&E	2026	82956-3594-04	93

MEADOW PARK LANE



STA. 48+00.00

MEADOW PARK LANE



STA. 47+50.00

SCALE:			
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	1"=10'	VERT.	END STA. 48+00.00

5/22/2026 11:20:31 AM
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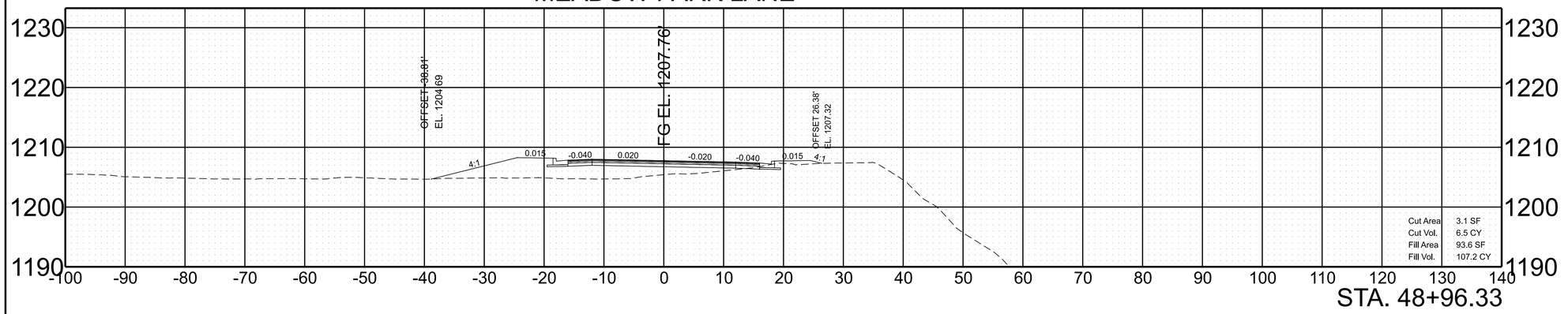
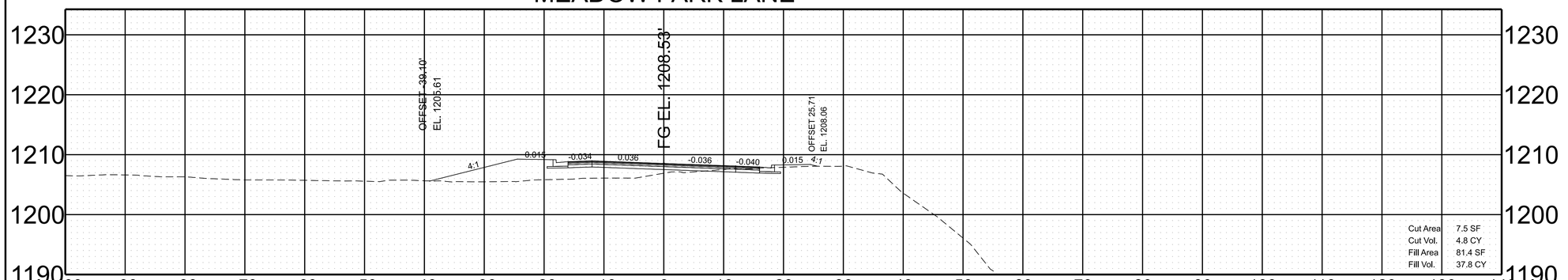
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	91
PIH	2026	82956-3594-04	94
PS&E	2026	82956-3594-04	94

MEADOW PARK LANE



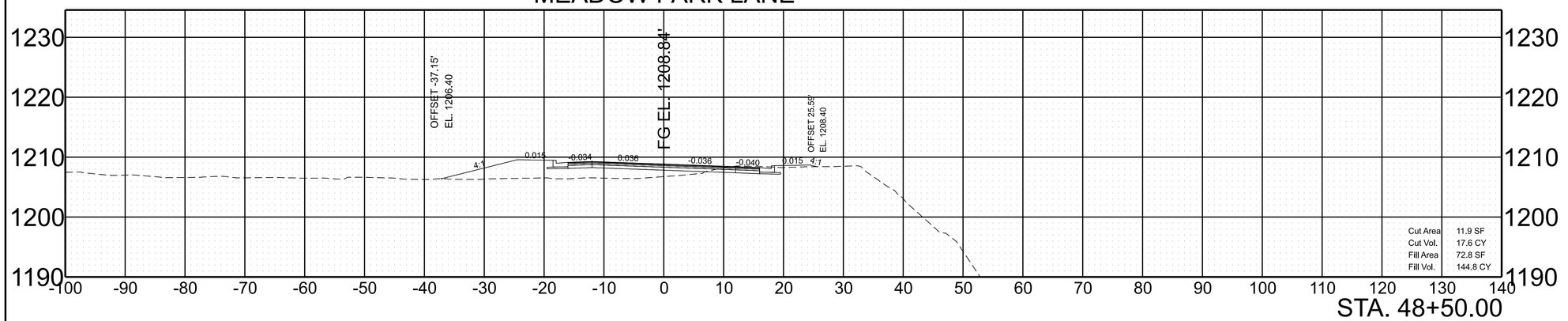
STA. 48+96.33

MEADOW PARK LANE



STA. 48+63.23

MEADOW PARK LANE



STA. 48+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 48+50.00
	1"=10' VERT.	END STA. 48+96.33

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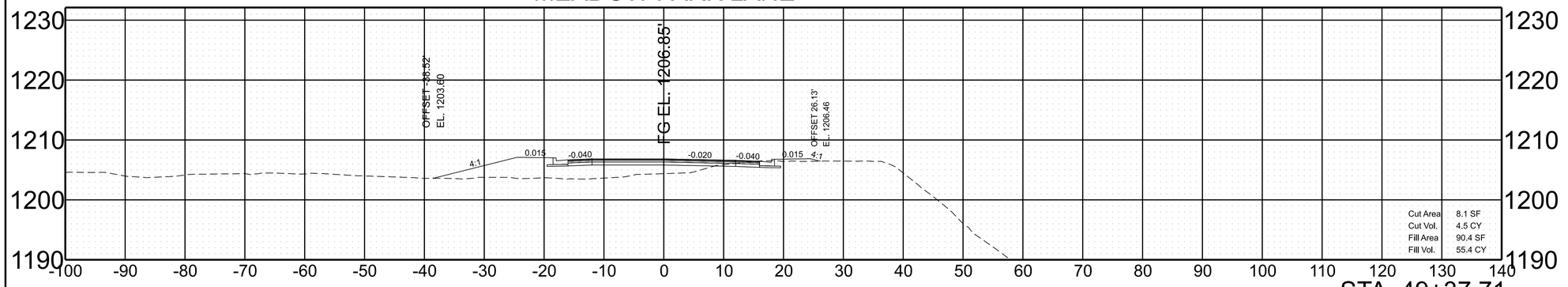
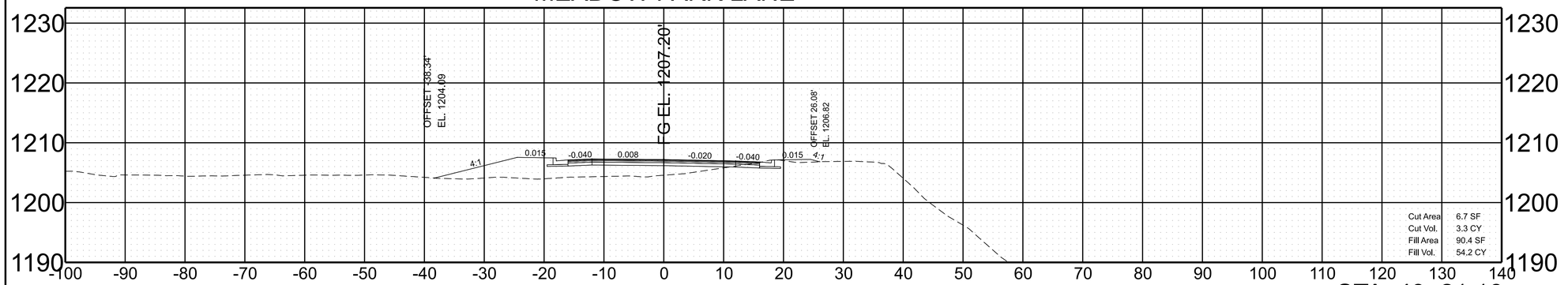
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	92
PIH	2026	82956-3594-04	95
PS&E	2026	82956-3594-04	95

MEADOW PARK LANE



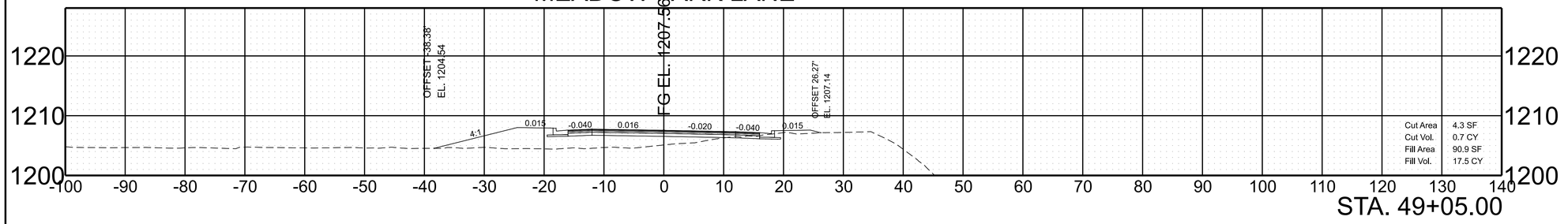
STA. 49+37.71

MEADOW PARK LANE



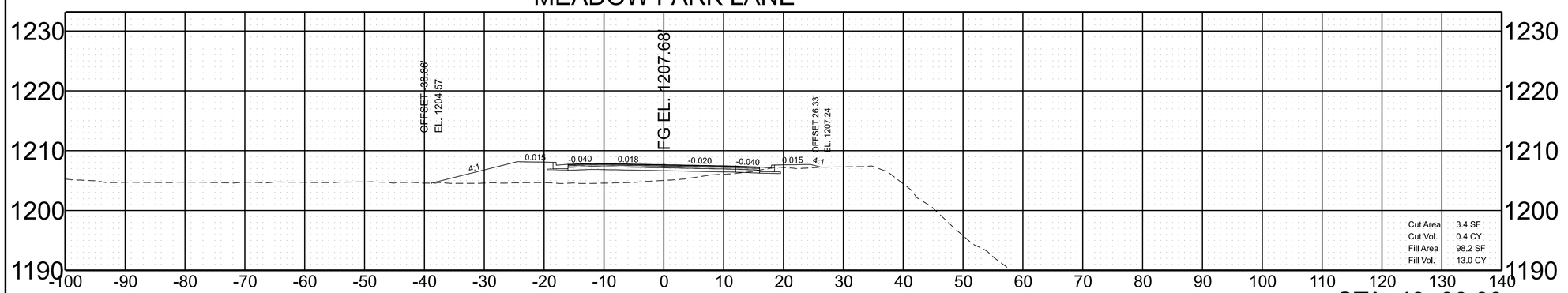
STA. 49+21.16

MEADOW PARK LANE



STA. 49+05.00

MEADOW PARK LANE



STA. 49+00.00

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 49+00.00
END STA. 49+37.71

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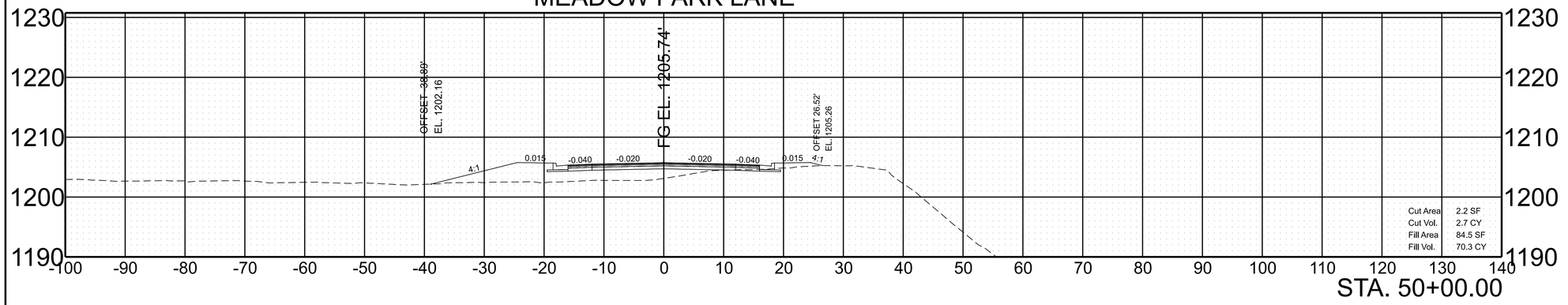
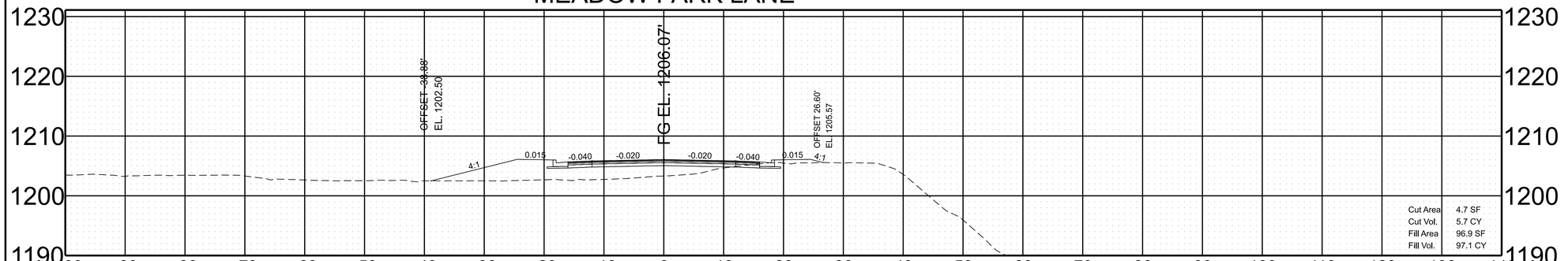
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	93
PIH	2026	82956-3594-04	96
PS&E	2026	82956-3594-04	96

MEADOW PARK LANE



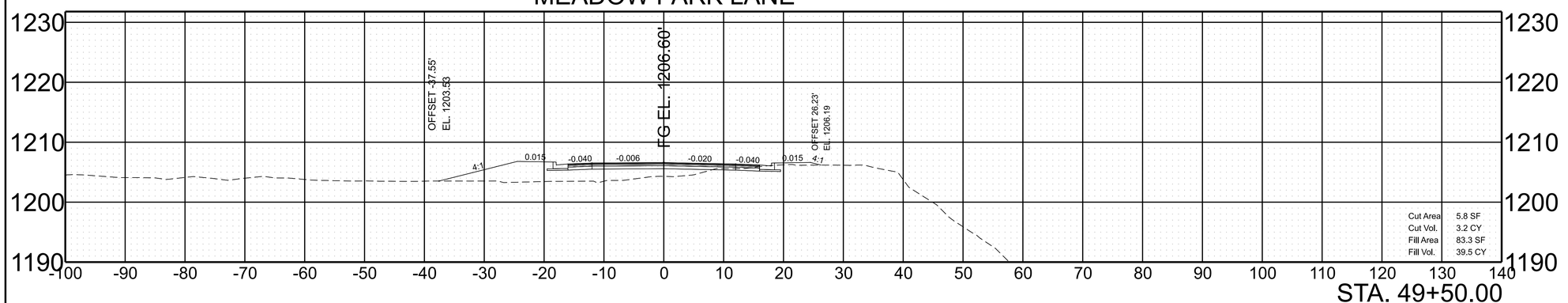
STA. 50+00.00

MEADOW PARK LANE



STA. 49+79.09

MEADOW PARK LANE



STA. 49+50.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 49+50.00
	1"=10' VERT.	END STA. 50+00.00

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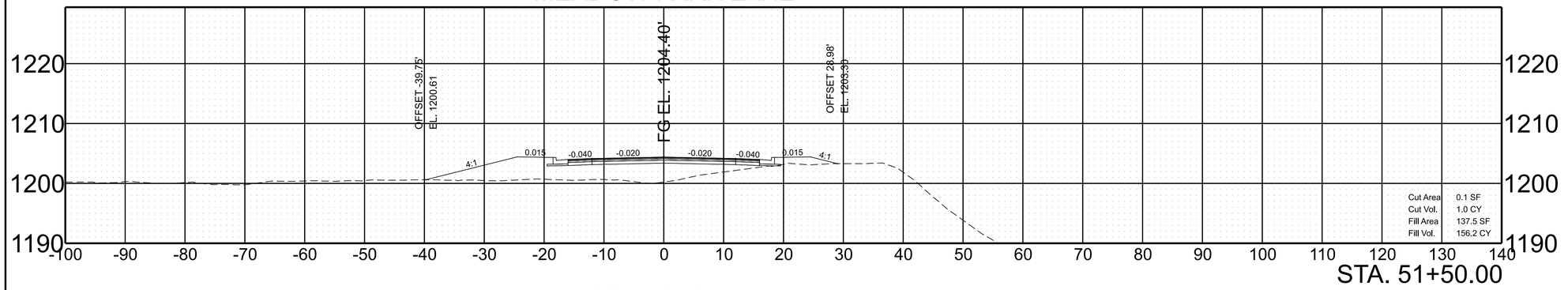
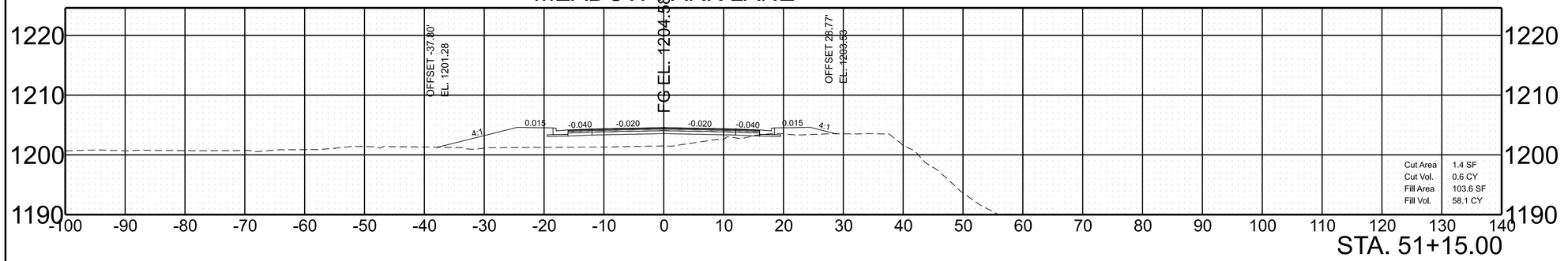
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	94
PIH	2026	82956-3594-04	97
PS&E	2026	82956-3594-04	97

MEADOW PARK LANE



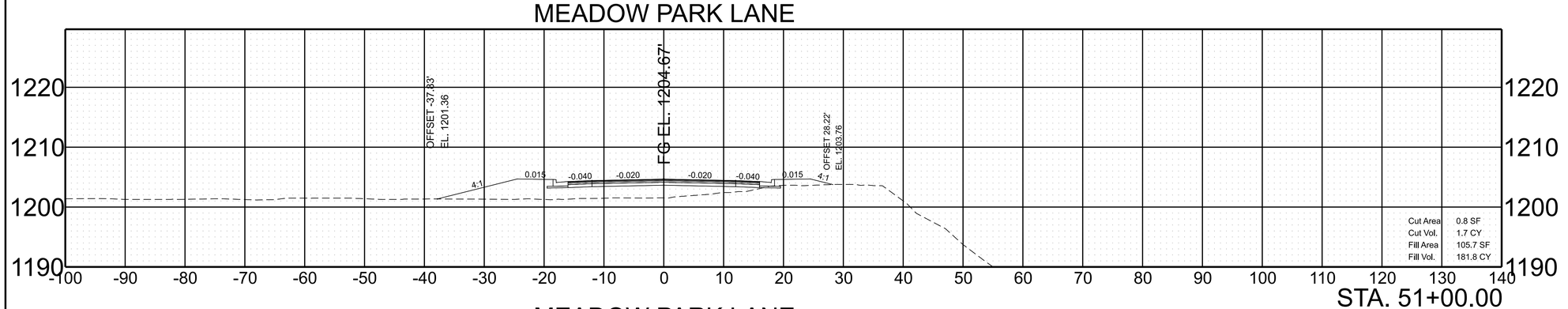
STA. 51+50.00

MEADOW PARK LANE



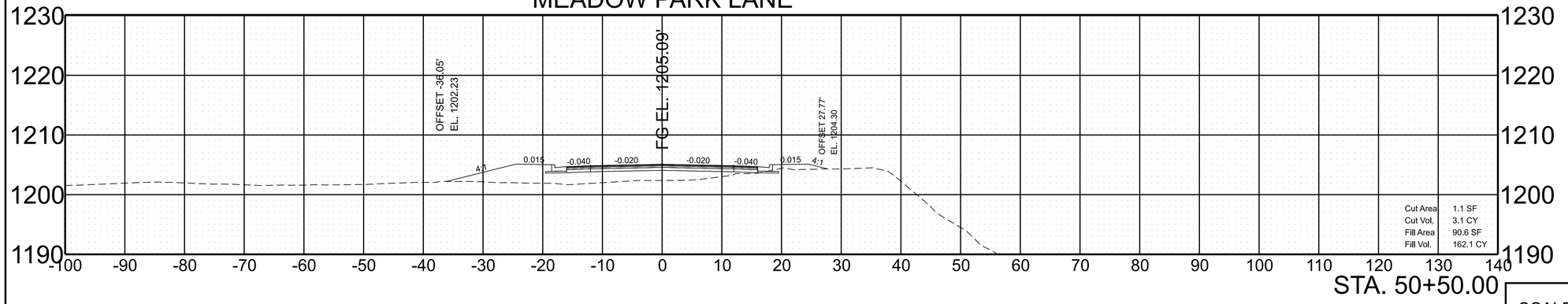
STA. 51+15.00

MEADOW PARK LANE



STA. 51+00.00

MEADOW PARK LANE



STA. 50+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 50+50.00 END STA. 51+50.00

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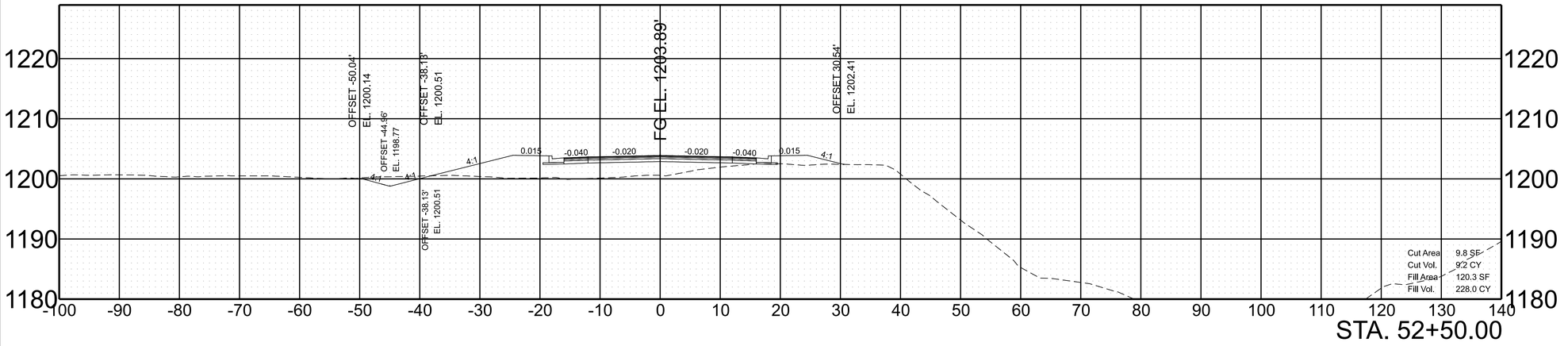
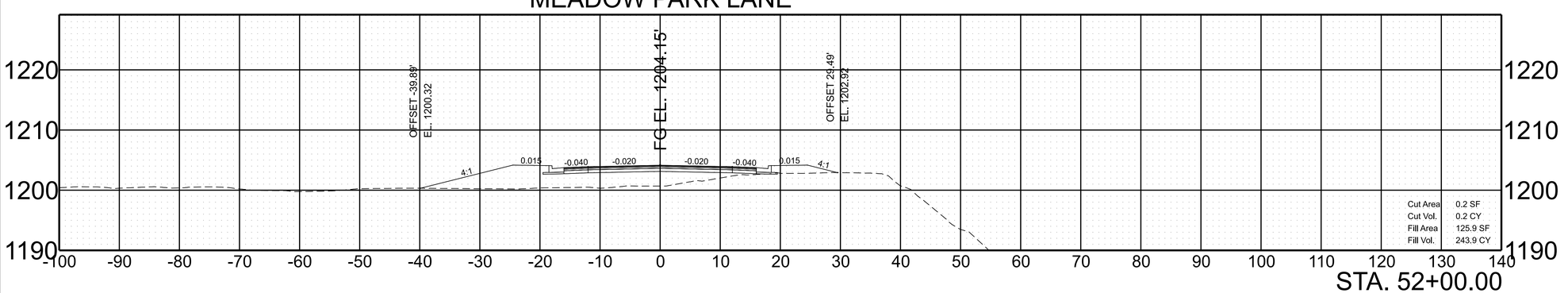
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	95
PIH	2026	82956-3594-04	98
PS&E	2026	82956-3594-04	98

MEADOW PARK LANE



STA. 52+50.00

MEADOW PARK LANE



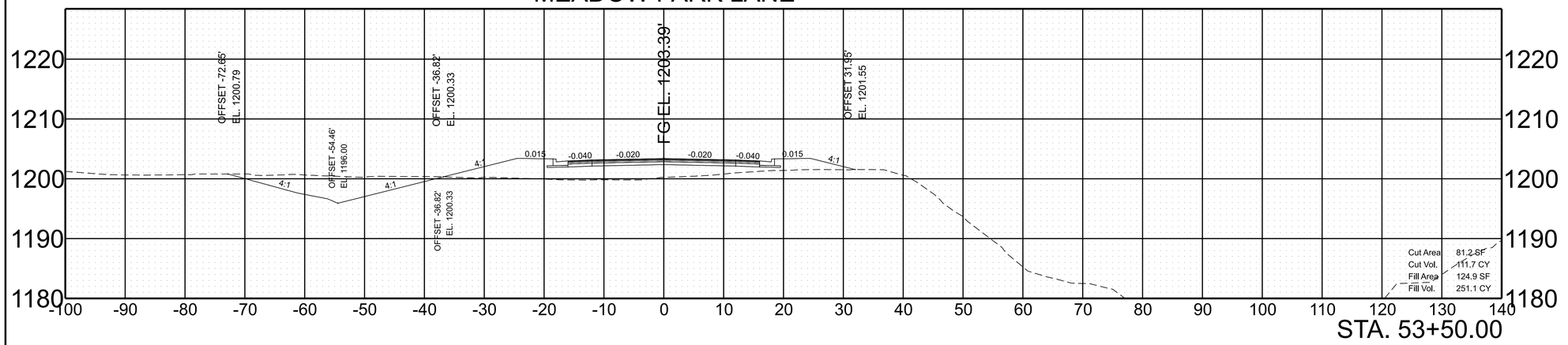
STA. 52+00.00

SCALE:			
	1"=10'	HORIZ.	BEGIN STA. 52+00.00
	1"=10'	VERT.	END STA. 52+50.00

5/22/2026 11:20:55 AM
F:\37\37743\37743\02\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

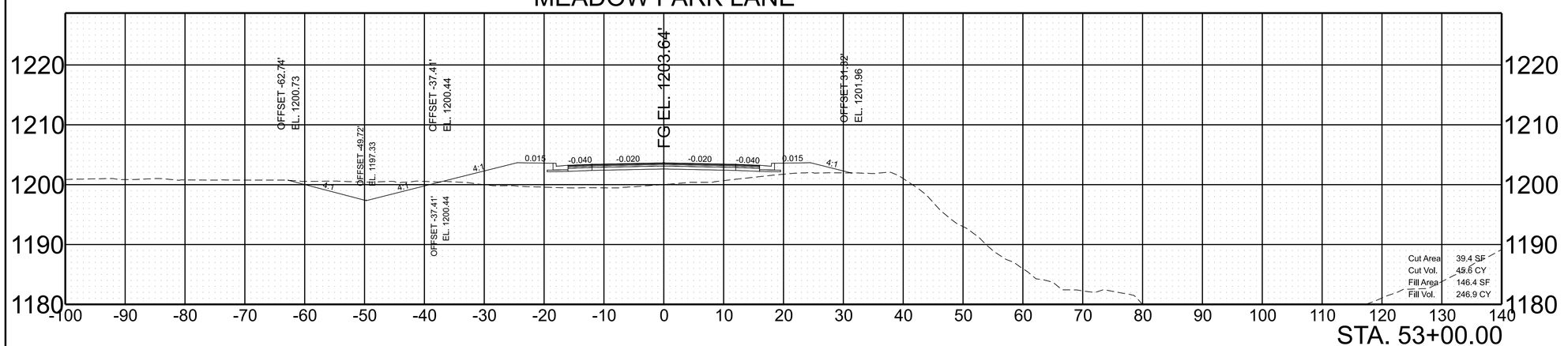
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	96
PIH	2026	82956-3594-04	99
PS&E	2026	82956-3594-04	99

MEADOW PARK LANE



STA. 53+50.00

MEADOW PARK LANE



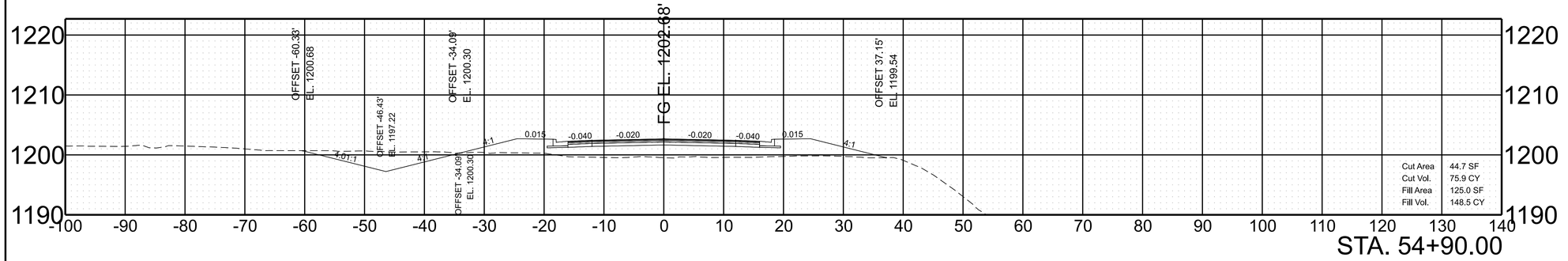
STA. 53+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 53+00.00
	1"=10' VERT.	END STA. 53+50.00

5/22/2026 11:20:59 AM
F:\3713774\3774302\04_CAD\TRNS\BASE\DRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

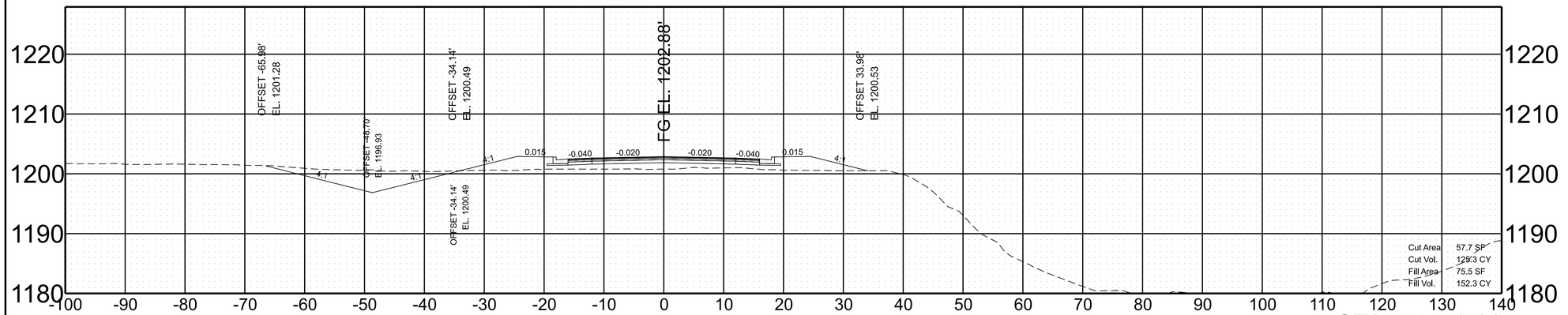
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	97
PIH	2026	82956-3594-04	100
PS&E	2026	82956-3594-04	100

MEADOW PARK LANE



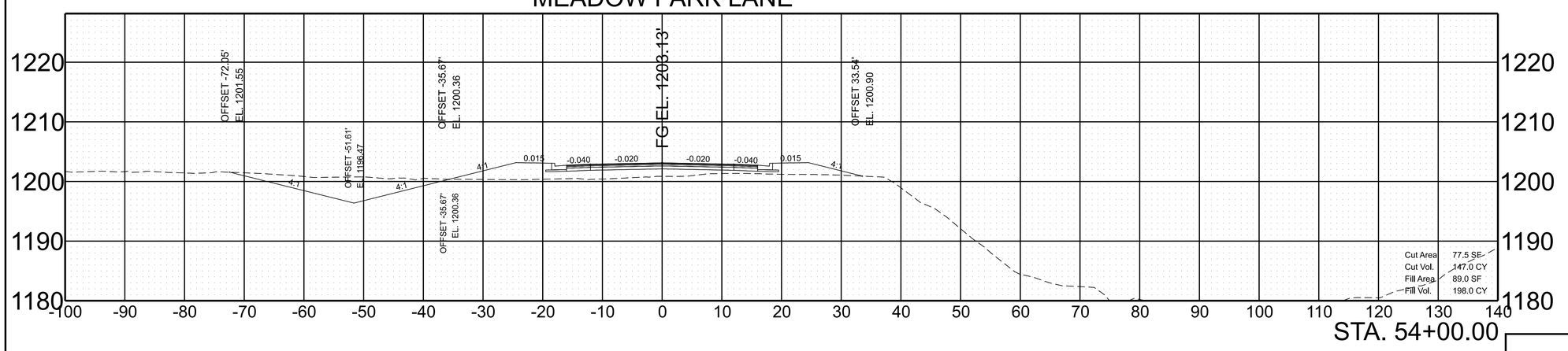
STA. 54+90.00

MEADOW PARK LANE



STA. 54+50.00

MEADOW PARK LANE



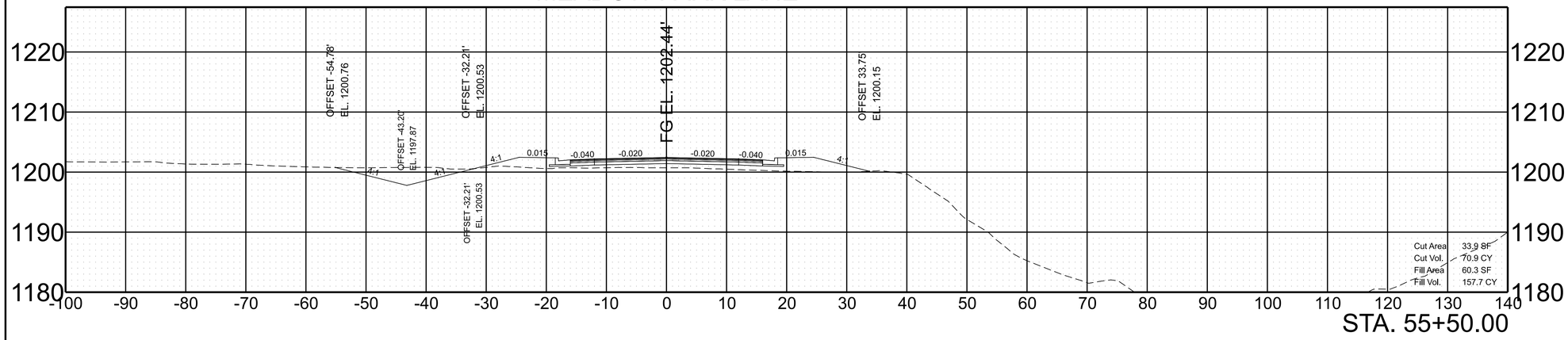
STA. 54+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 54+00.00
	1"=10' VERT.	END STA. 54+50.00

5/22/2026 11:21:03 AM
F:\37\37743\37743302\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

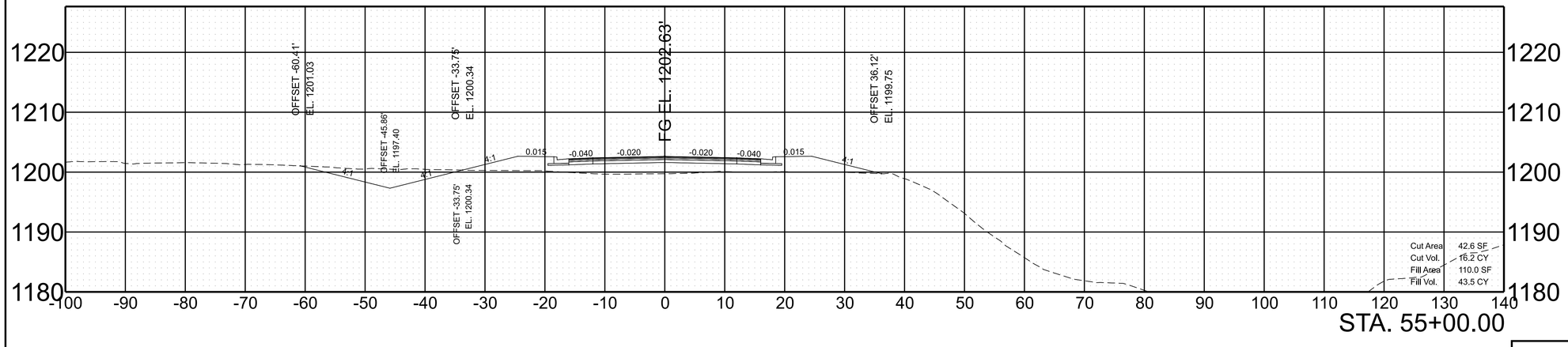
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	98
PIH	2026	82956-3594-04	101
PS&E	2026	82956-3594-04	101

MEADOW PARK LANE



STA. 55+50.00

MEADOW PARK LANE



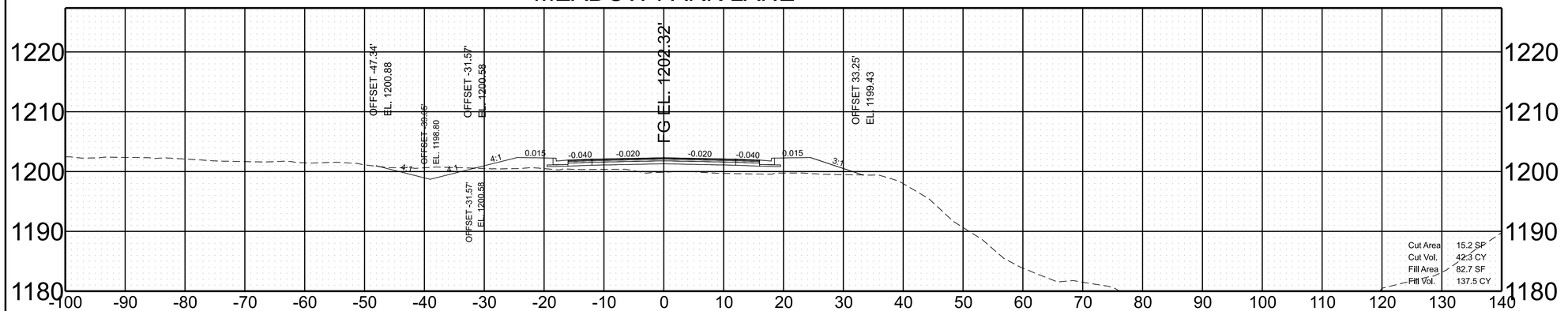
STA. 55+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 55+00.00
	1"=10' VERT.	END STA. 55+50.00

5/22/2026 11:21:07 AM
F:\3T\3T743\3T74302\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

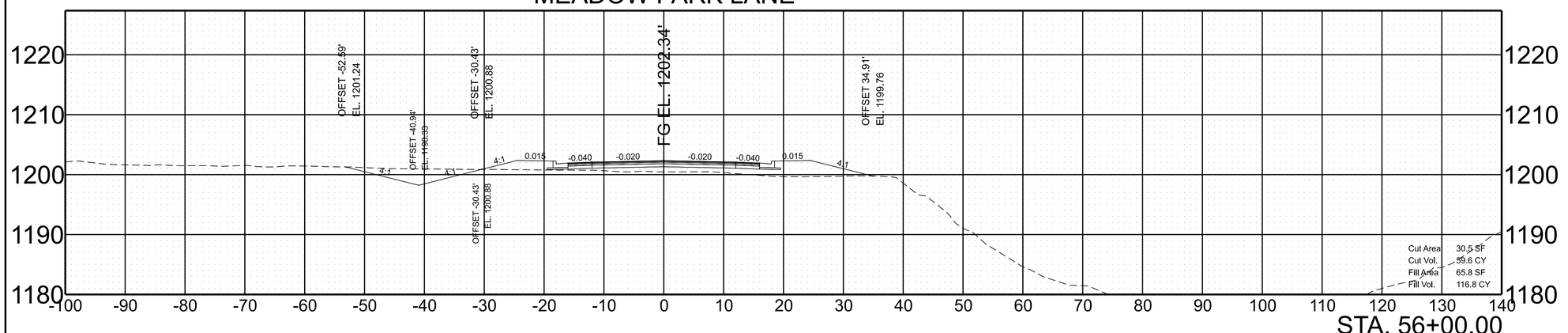
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	99
PIH	2026	82956-3594-04	102
PS&E	2026	82956-3594-04	102

MEADOW PARK LANE



STA. 56+50.00

MEADOW PARK LANE



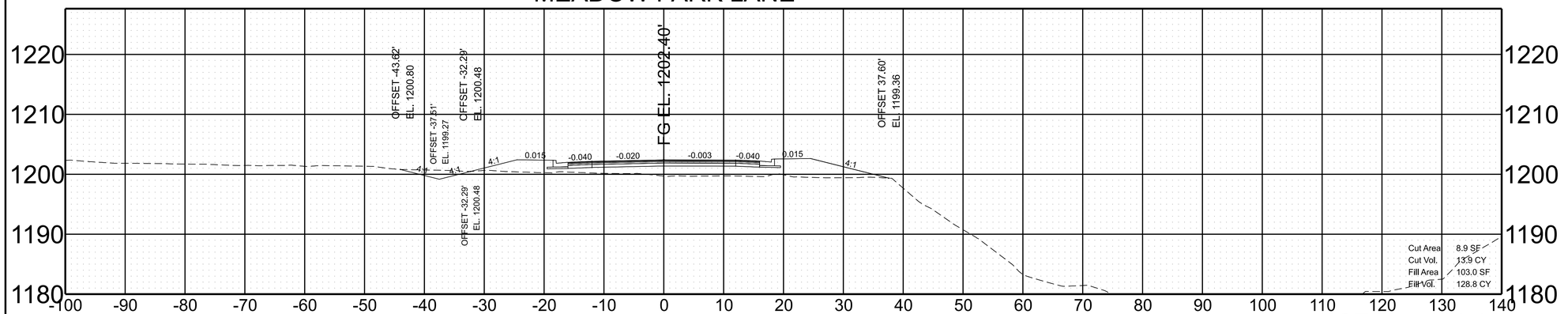
STA. 56+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 56+00.00
	1"=10' VERT.	END STA. 56+50.00

5/22/2026 11:21:11 AM
F:\37\37743\37743002\04_CAD\TRNS\BASEDRAWINGS\PLOT\02APLN-SHT-XS-MEADOWPARKLANE.DGN

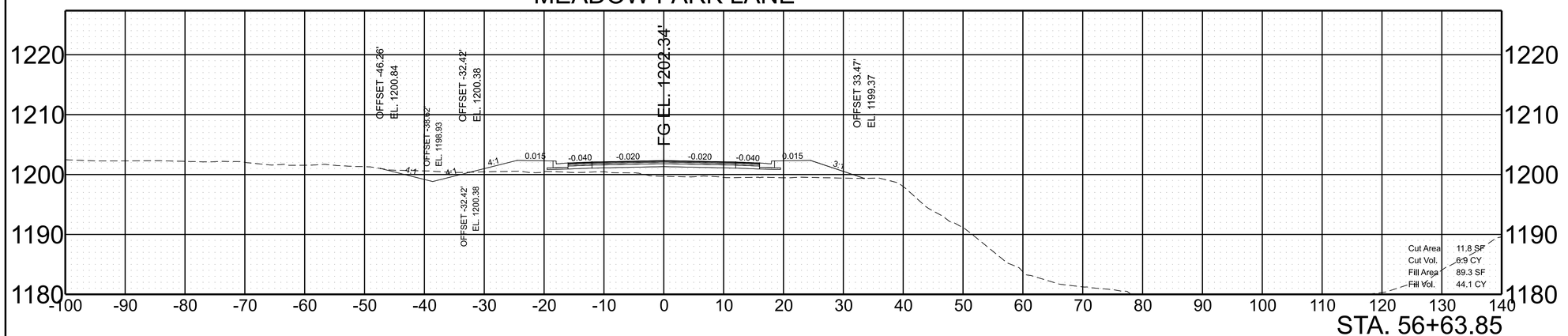
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	100
PIH	2026	82956-3594-04	103
PS&E	2026	82956-3594-04	103

MEADOW PARK LANE



STA. 57+00.00

MEADOW PARK LANE



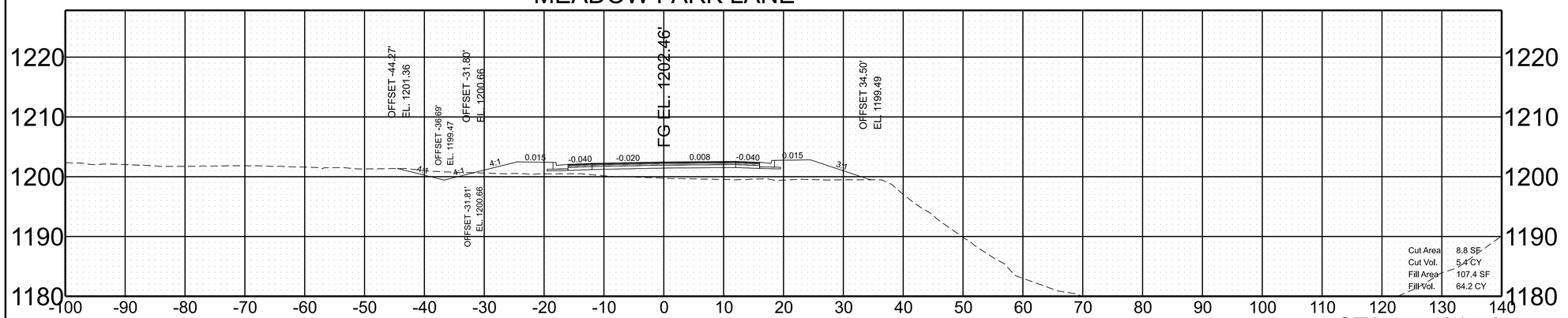
STA. 56+63.85

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 56+63.85
	1"=10' VERT.	END STA. 57+00.00

5/22/2026 11:21:15 AM
F:\37\37743\37743002\04_CAD\TRNS\BASEDRAWINGS\PLOT\02APLN-SHT-XS-MEADOWPARKLANE.DGN

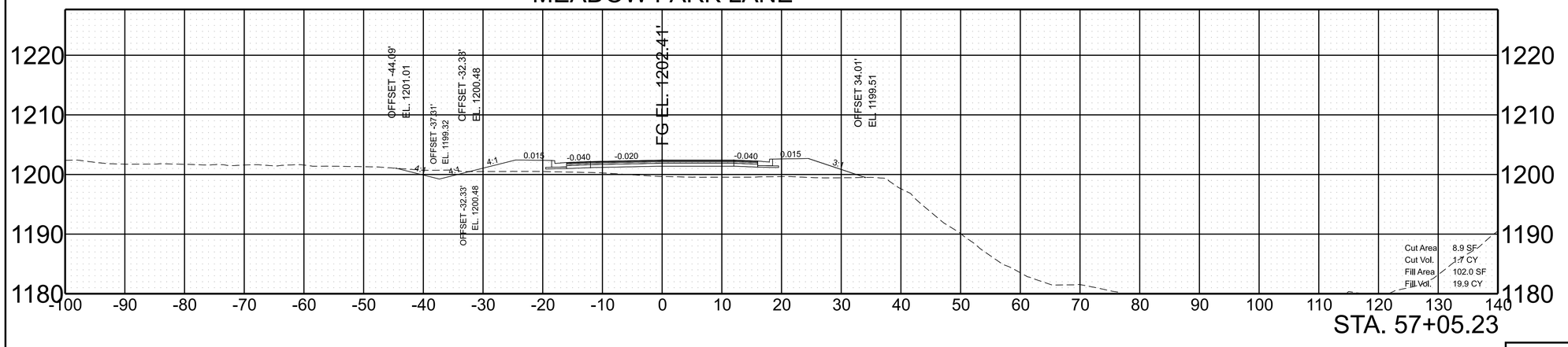
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	101
PIH	2026	82956-3594-04	104
PS&E	2026	82956-3594-04	104

MEADOW PARK LANE



STA. 57+21.78

MEADOW PARK LANE



STA. 57+05.23

SCALE:	1"=10' HORIZ.	BEGIN STA. 57+05.23
	1"=10' VERT.	END STA. 57+21.78

5/22/2026 11:21:18 AM
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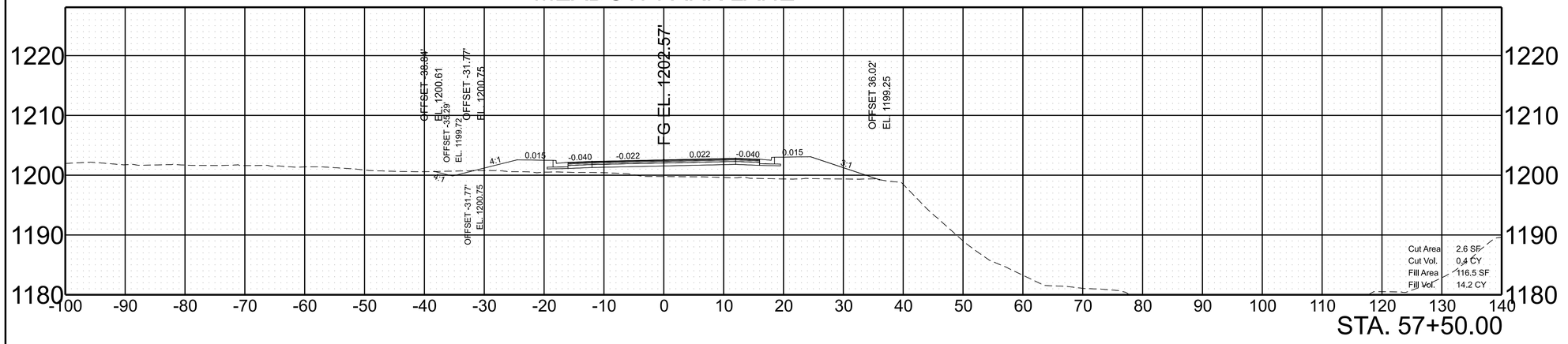
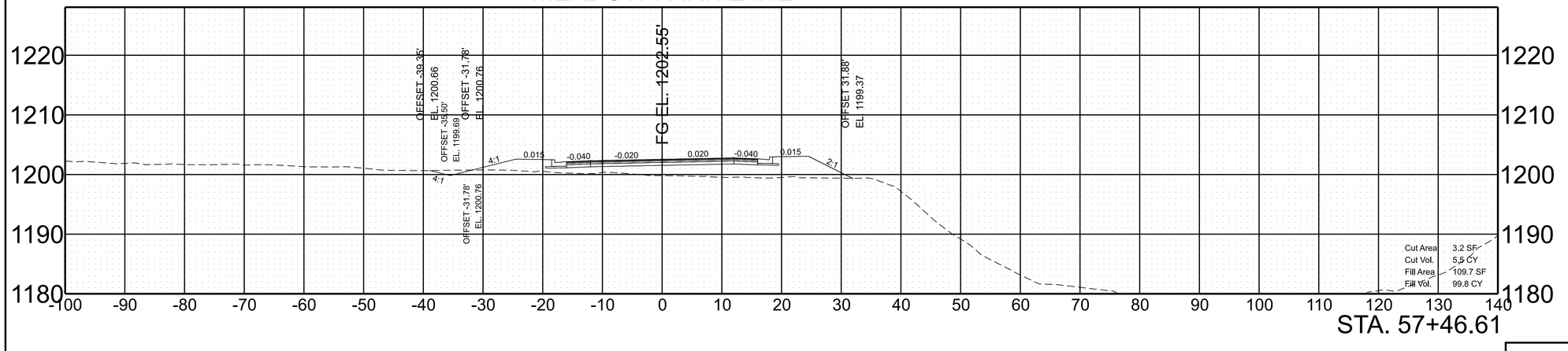
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	102
PIH	2026	82956-3594-04	105
PS&E	2026	82956-3594-04	105

MEADOW PARK LANE



STA. 57+50.00

MEADOW PARK LANE



STA. 57+46.61

SCALE:	1"=10' HORIZ.	BEGIN STA. 57+46.61
	1"=10' VERT.	END STA. 57+50.00

5/22/2026 11:21:21 AM
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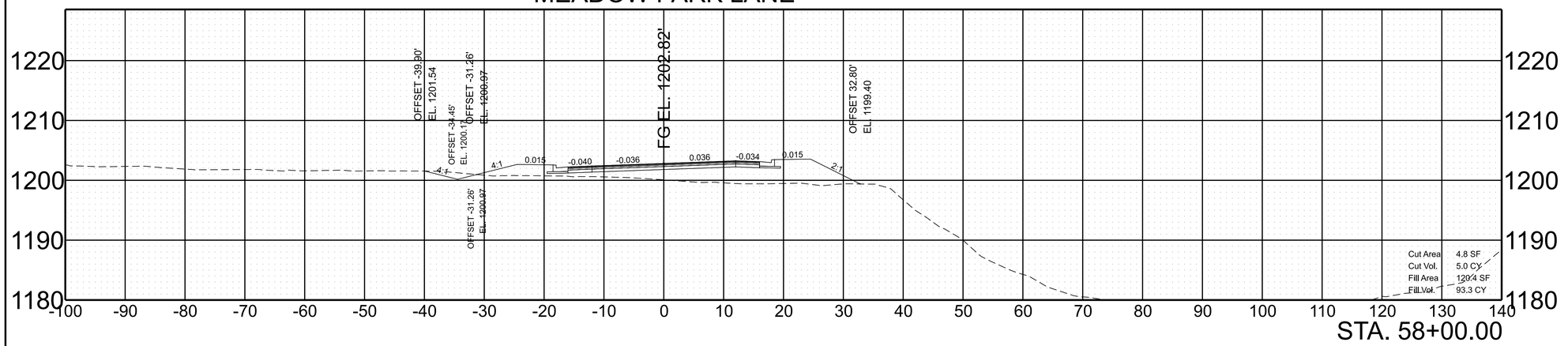
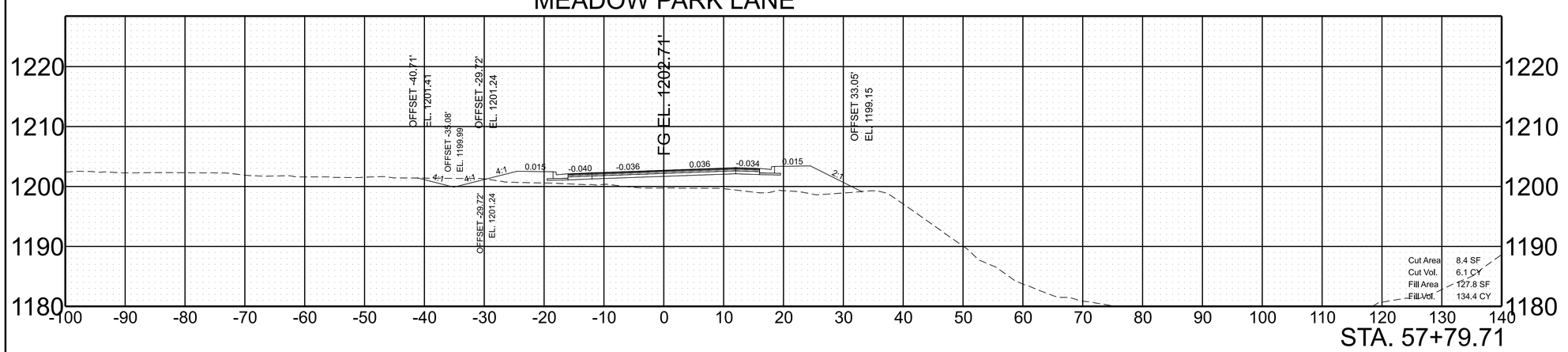
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	103
PIH	2026	82956-3594-04	106
PS&E	2026	82956-3594-04	106

MEADOW PARK LANE



STA. 58+00.00

MEADOW PARK LANE



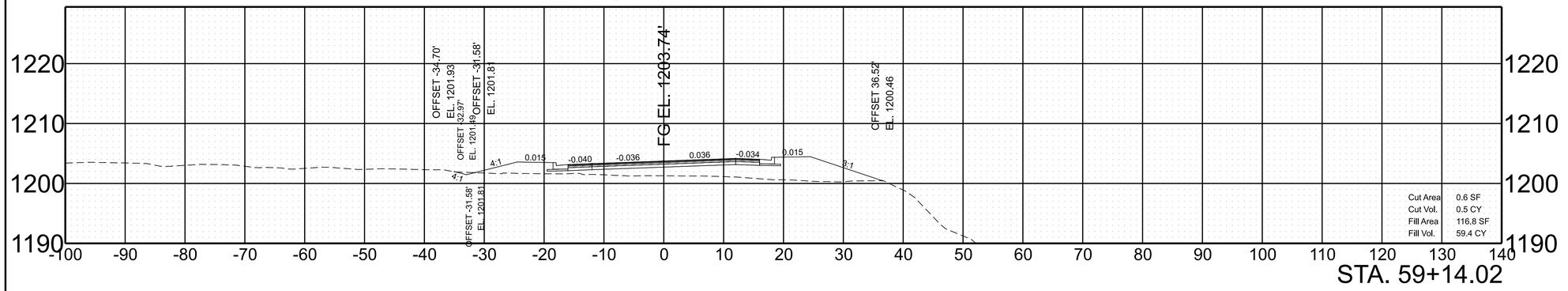
STA. 57+79.71

SCALE:			
	1"=10'	HORIZ.	BEGIN STA. 57+79.71
	1"=10'	VERT.	END STA. 58+00.00

5/22/2026 11:21:26 AM
F:\37\3774\3774302\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARK.LANE.DGN

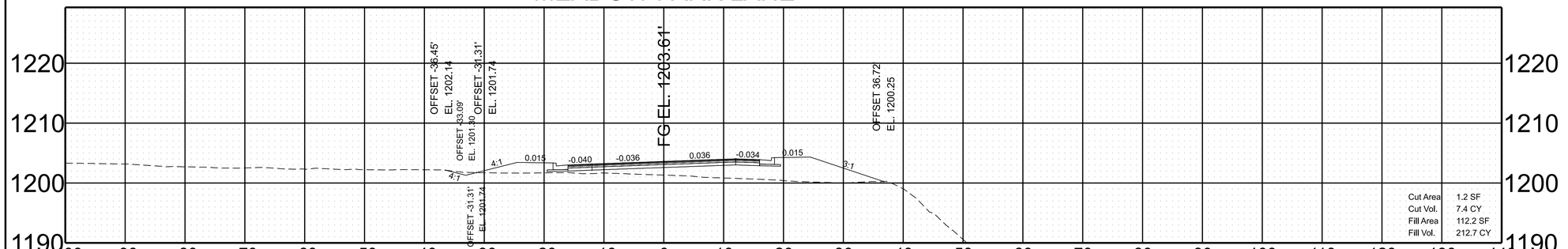
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	104
PIH	2026	82956-3594-04	107
PS&E	2026	82956-3594-04	107

MEADOW PARK LANE



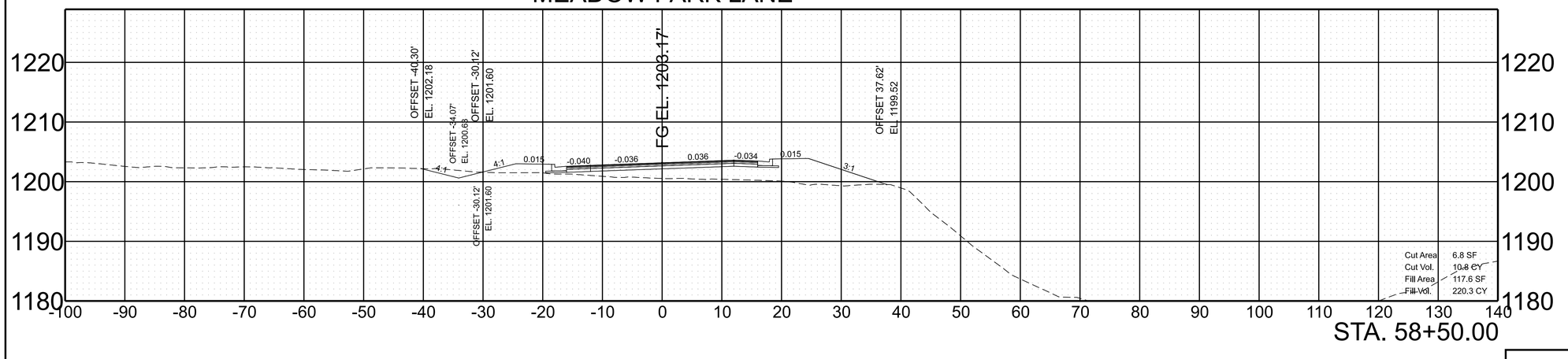
STA. 59+14.02

MEADOW PARK LANE



STA. 59+00.00

MEADOW PARK LANE



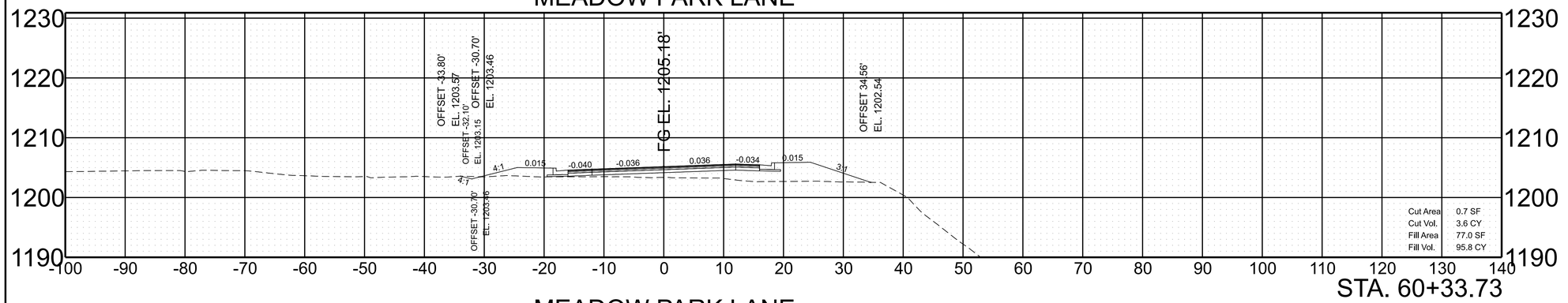
STA. 58+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 58+50.00 END STA. 59+14.02

5/22/2026 11:21:30 AM
F:\37\3774\3774302\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARK.LANE.DGN

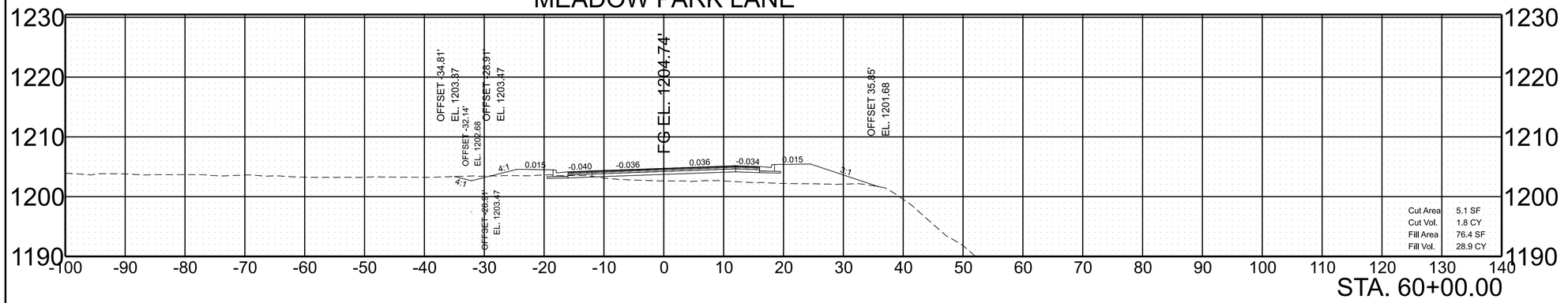
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	105
PIH	2026	82956-3594-04	108
PS&E	2026	82956-3594-04	108

MEADOW PARK LANE



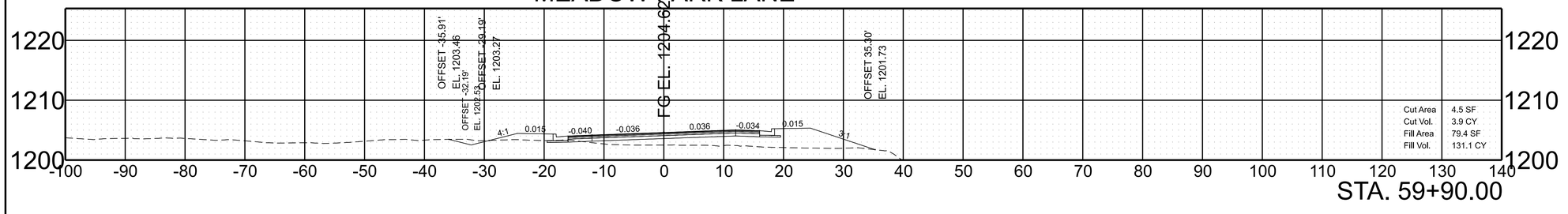
STA. 60+33.73

MEADOW PARK LANE



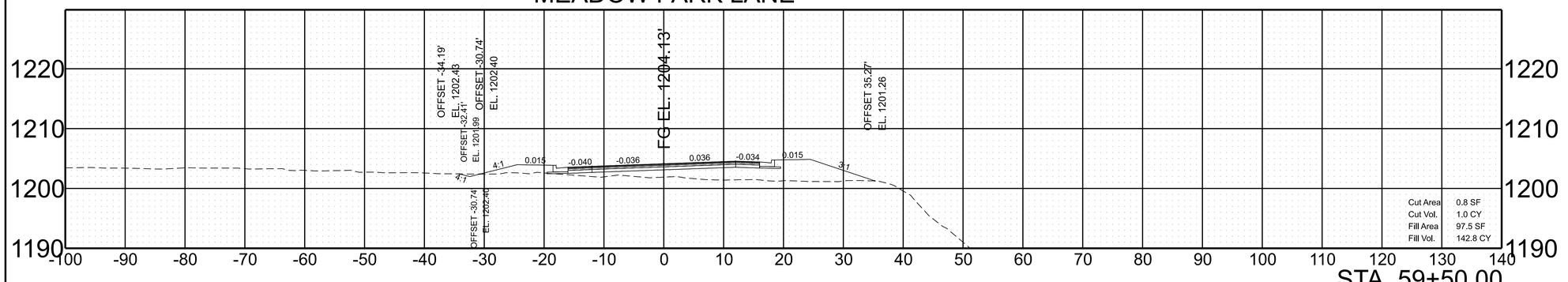
STA. 60+00.00

MEADOW PARK LANE



STA. 59+90.00

MEADOW PARK LANE



STA. 59+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 59+50.00
	1"=10' VERT.	END STA. 60+33.73

5/22/2026 11:21:36 AM
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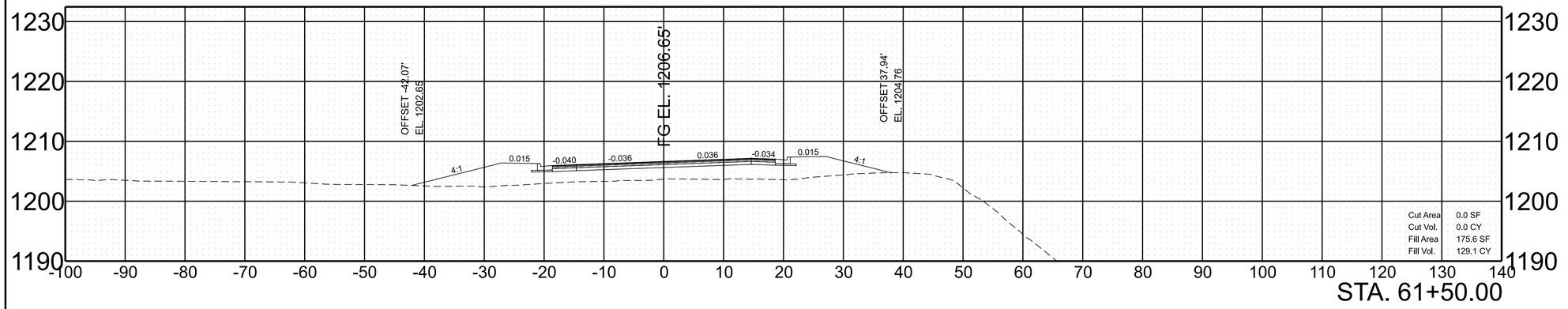
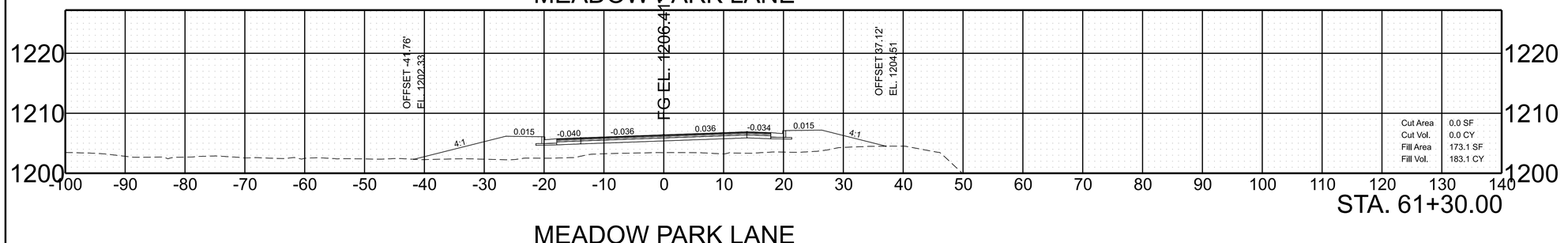
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	106
PIH	2026	82956-3594-04	109
PS&E	2026	82956-3594-04	109

MEADOW PARK LANE



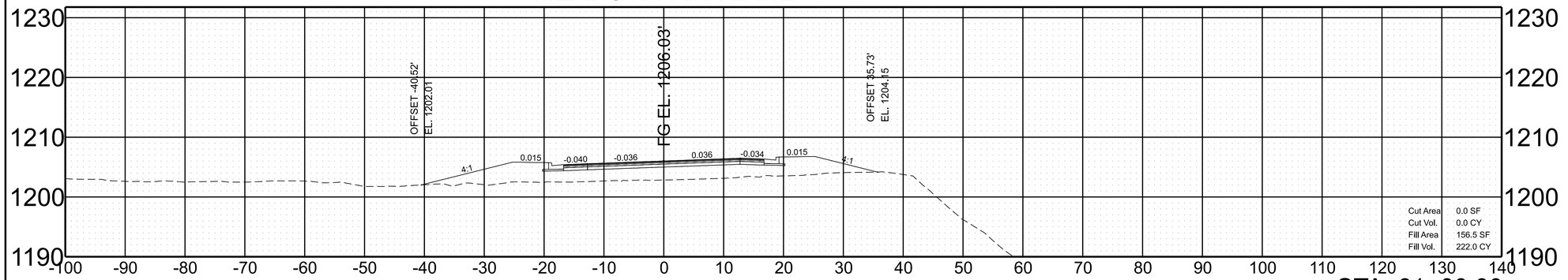
STA. 61+50.00

MEADOW PARK LANE



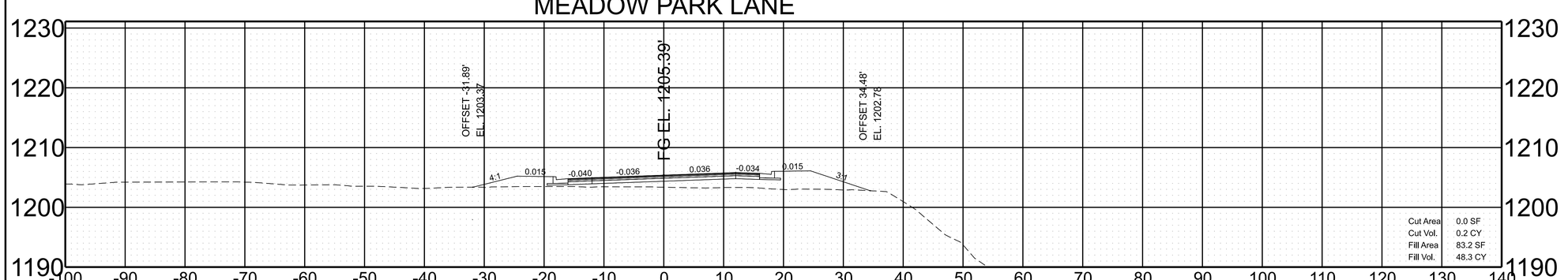
STA. 61+30.00

MEADOW PARK LANE



STA. 61+00.00

MEADOW PARK LANE



STA. 60+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 60+50.00
	1"=10' VERT.	END STA. 61+50.00

5/22/2026 11:21:41 AM
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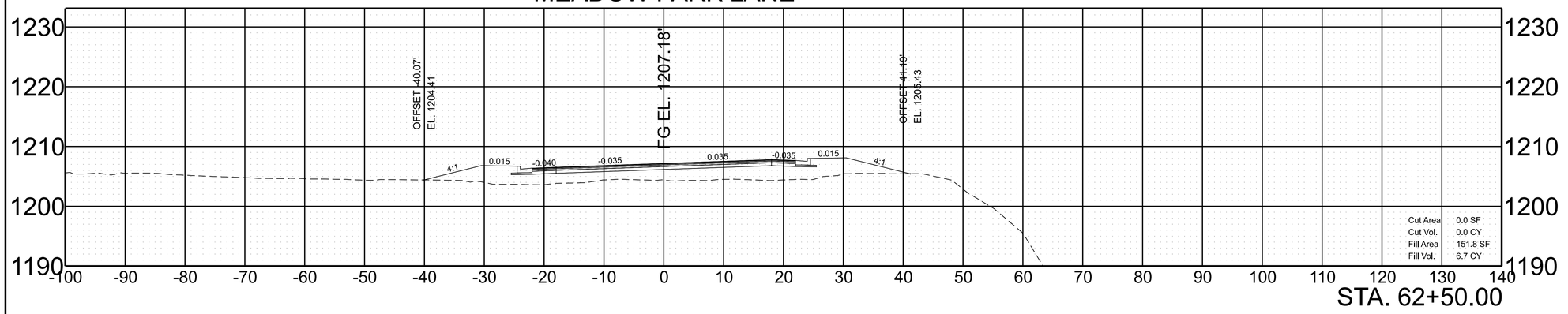
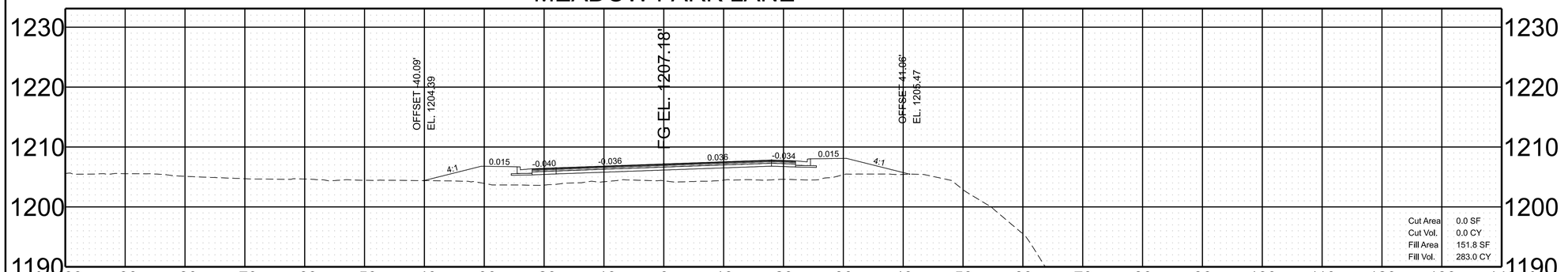
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	107
PIH	2026	82956-3594-04	110
PS&E	2026	82956-3594-04	110

MEADOW PARK LANE



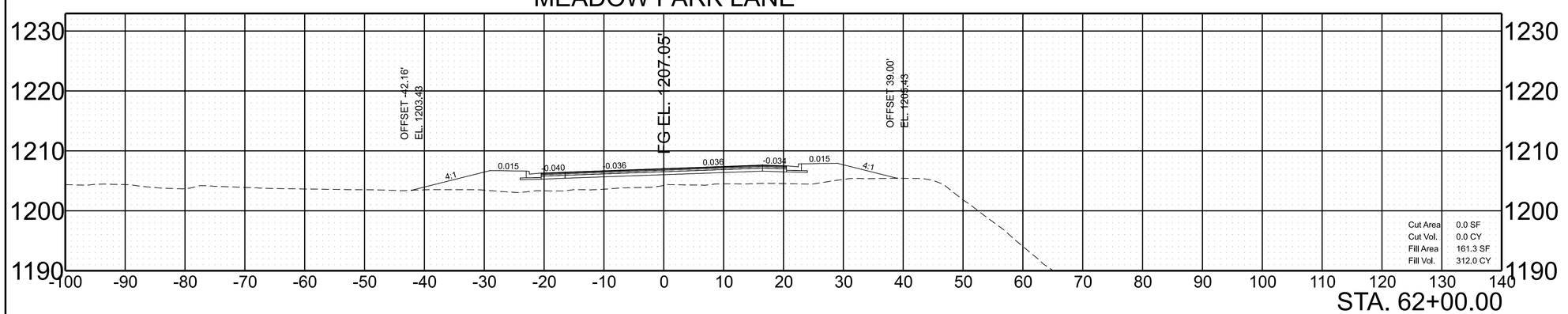
STA. 62+50.00

MEADOW PARK LANE



STA. 62+48.81

MEADOW PARK LANE



STA. 62+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 62+00.00
	1"=10' VERT.	END STA. 62+50.00

5/22/2026 11:21:47 AM
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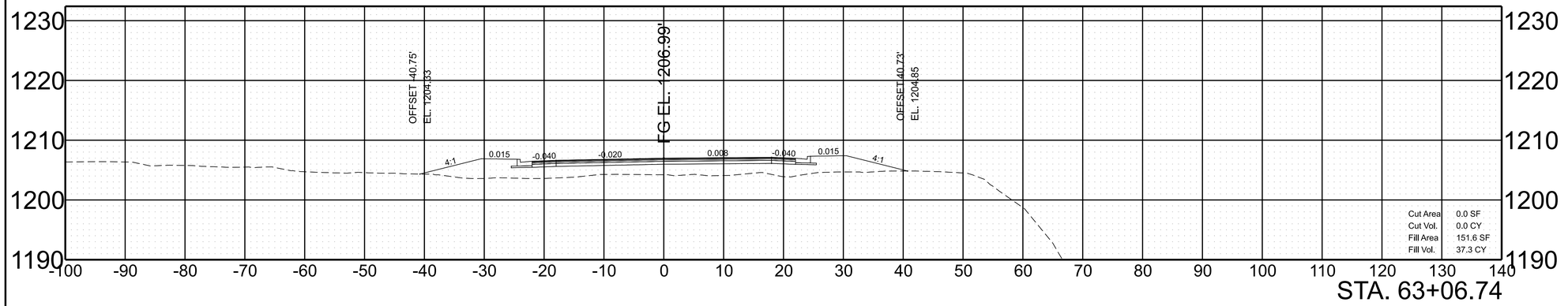
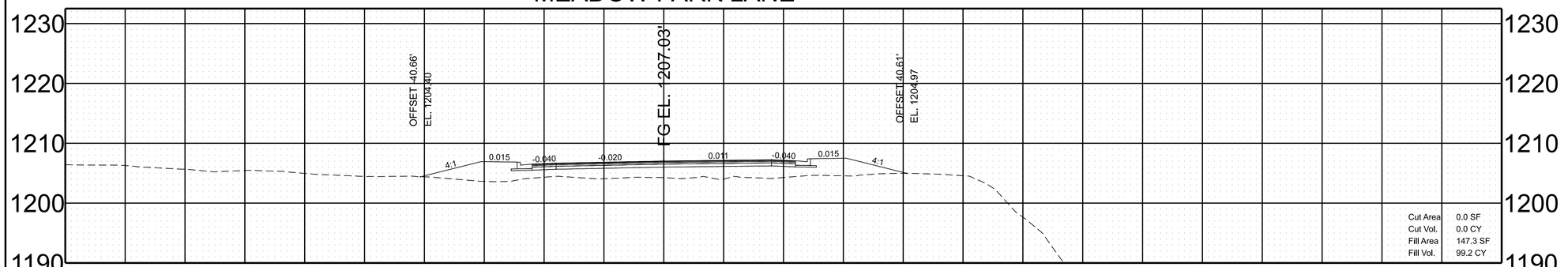
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	108
PIH	2026	82956-3594-04	111
PS&E	2026	82956-3594-04	111

MEADOW PARK LANE



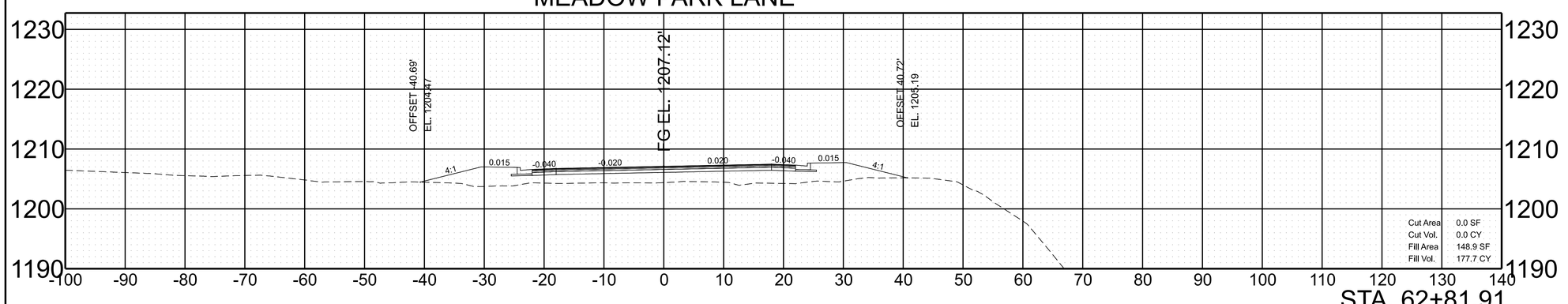
STA. 63+06.74

MEADOW PARK LANE



STA. 63+00.00

MEADOW PARK LANE



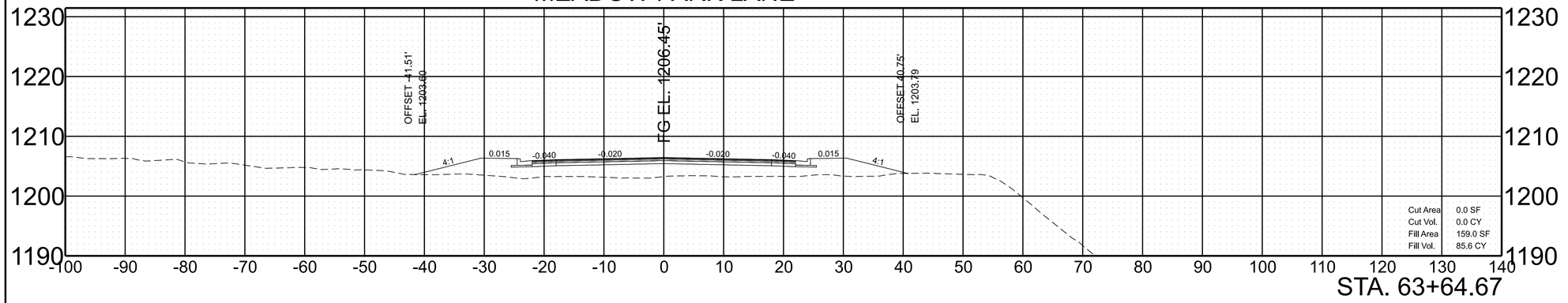
STA. 62+81.91

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 62+81.91 END STA. 63+06.74

5/22/2026 11:21:51 AM
F:\37\37743\37743002\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

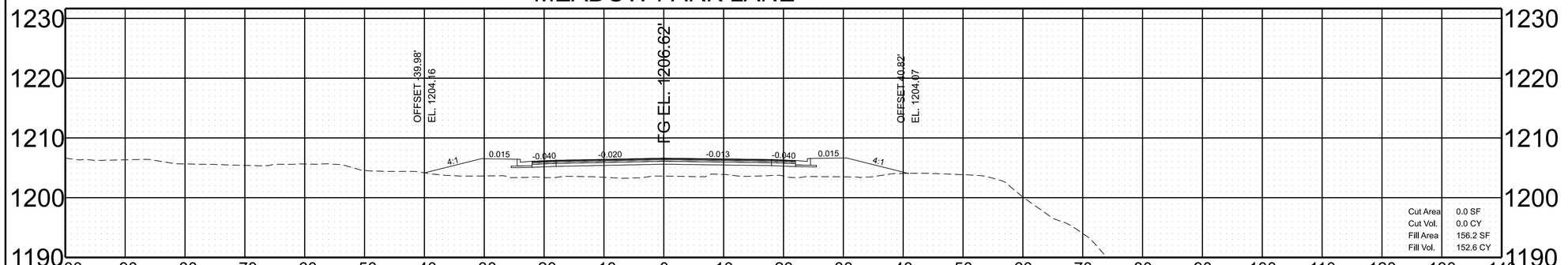
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	109
PIH	2026	82956-3594-04	112
PS&E	2026	82956-3594-04	112

MEADOW PARK LANE



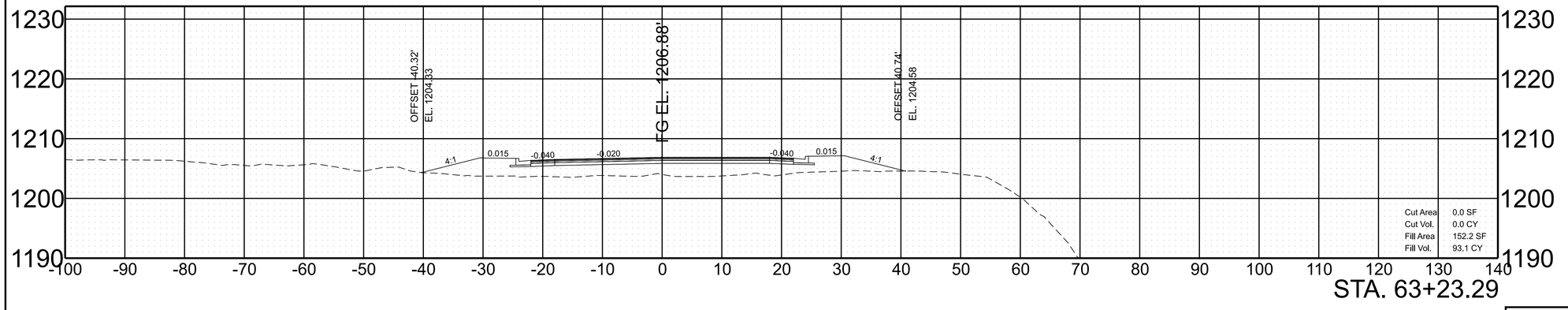
STA. 63+64.67

MEADOW PARK LANE



STA. 63+50.00

MEADOW PARK LANE



STA. 63+23.29

SCALE:	1"=10' HORIZ.	BEGIN STA. 63+23.29
	1"=10' VERT.	END STA. 63+64.67

5/22/2026 11:21:56 AM
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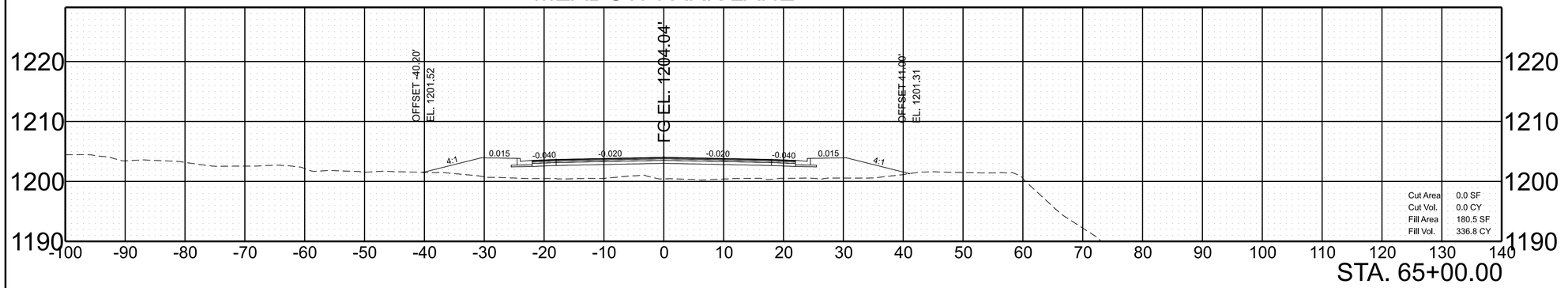
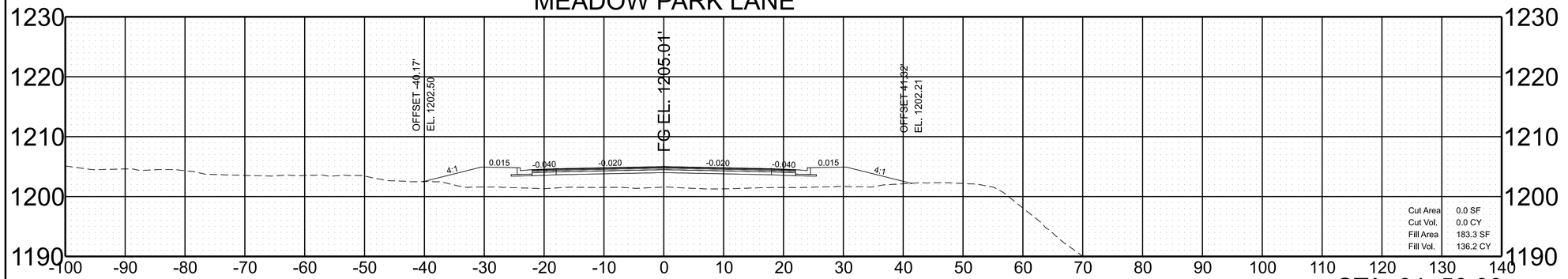
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	110
PIH	2026	82956-3594-04	113
PS&E	2026	82956-3594-04	113

MEADOW PARK LANE



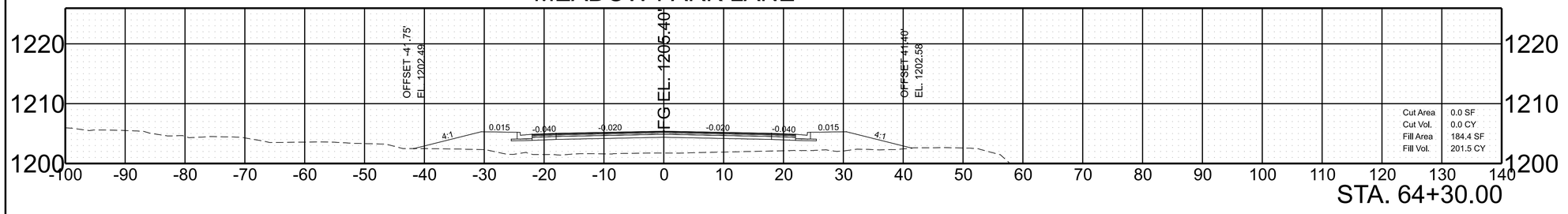
STA. 65+00.00

MEADOW PARK LANE



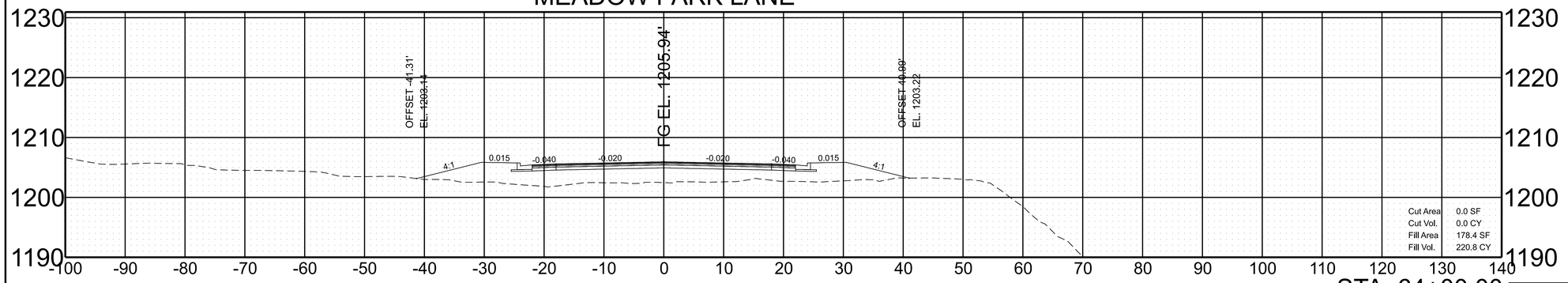
STA. 64+50.00

MEADOW PARK LANE



STA. 64+30.00

MEADOW PARK LANE



STA. 64+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 64+00.00 END STA. 65+00.00

5/22/2026 11:22:01 AM
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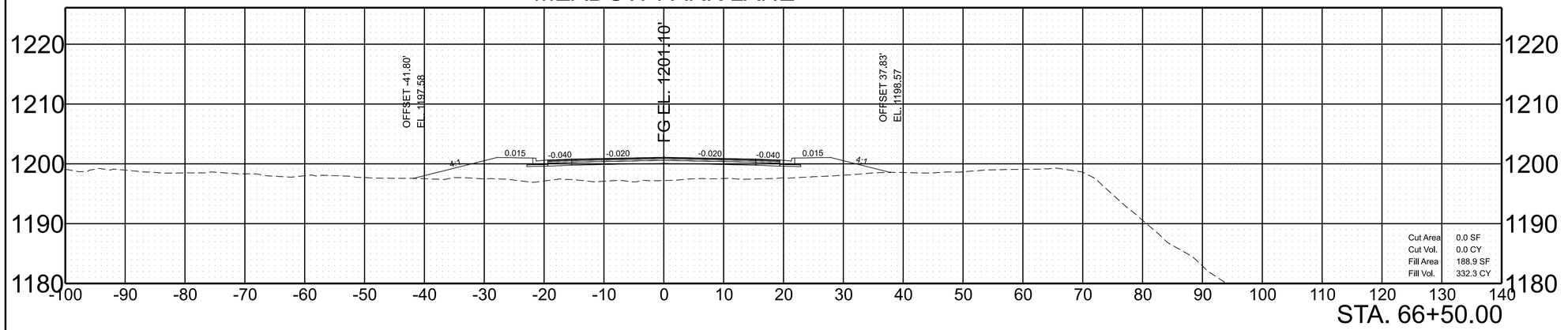
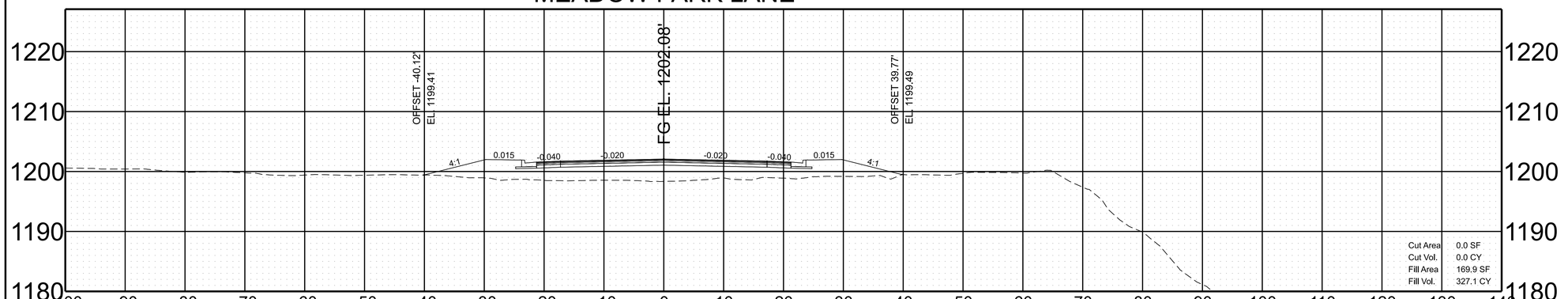
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	111
PIH	2026	82956-3594-04	114
PS&E	2026	82956-3594-04	114

MEADOW PARK LANE



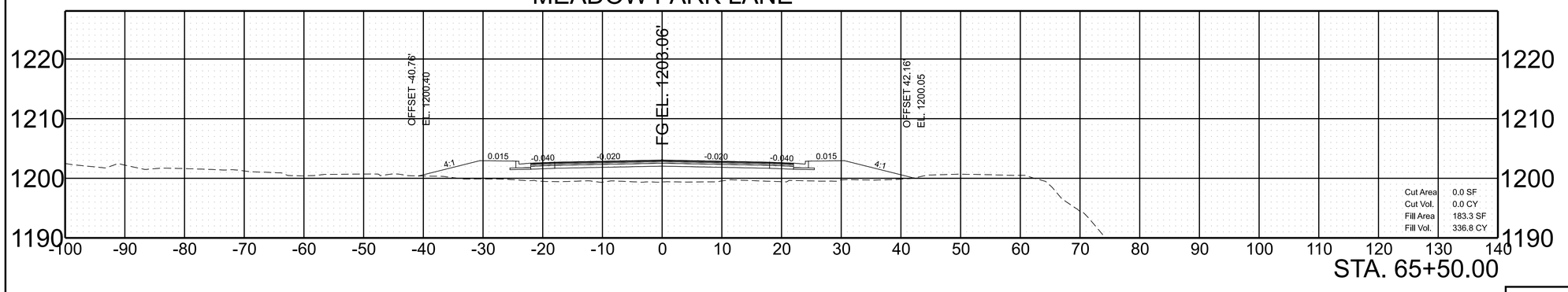
STA. 66+50.00

MEADOW PARK LANE



STA. 66+00.00

MEADOW PARK LANE



STA. 65+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 65+50.00
	1"=10' VERT.	END STA. 66+50.00

5/22/2026 11:22:07 AM
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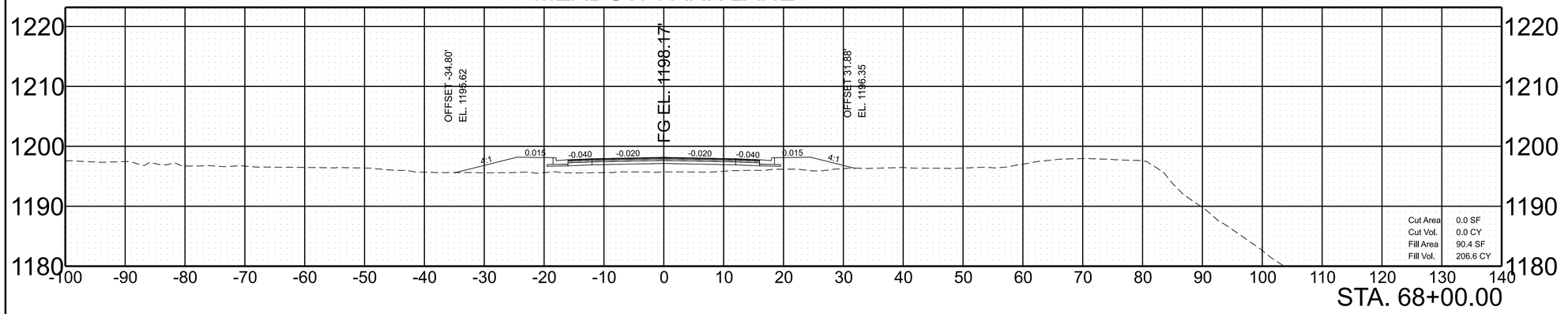
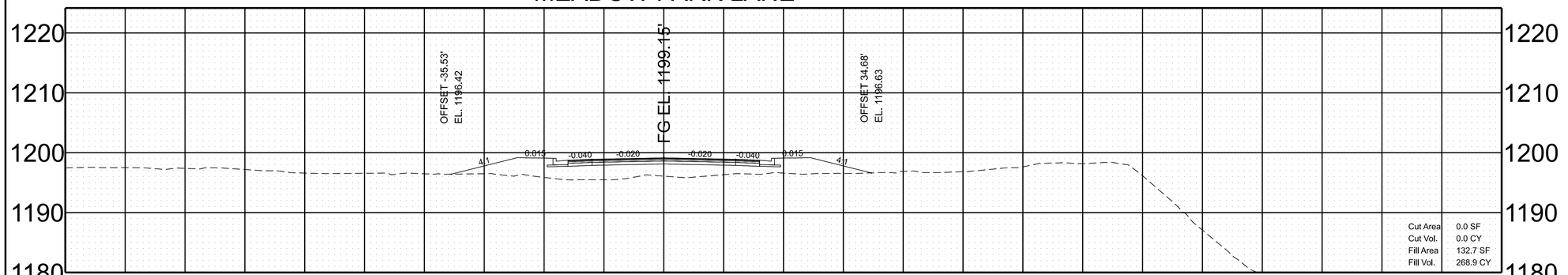
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	112
PIH	2026	82956-3594-04	115
PS&E	2026	82956-3594-04	115

MEADOW PARK LANE



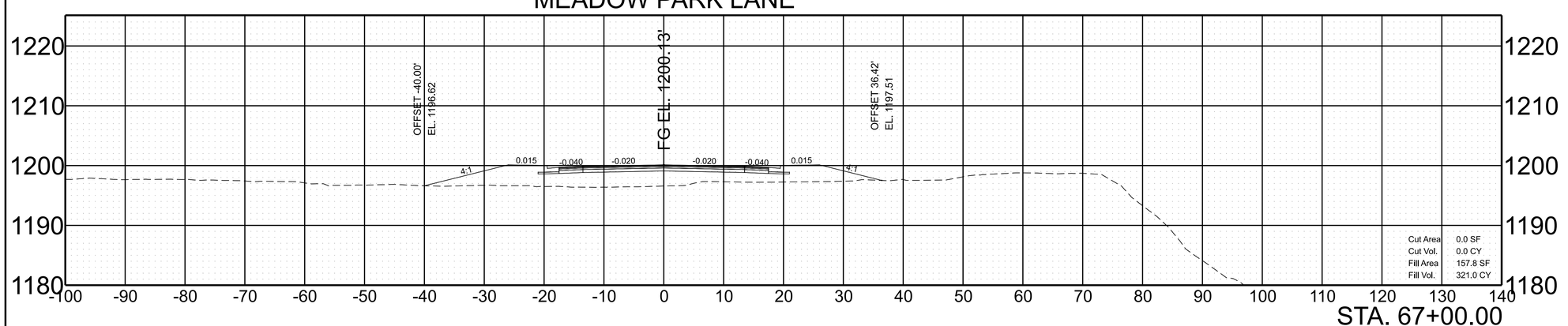
STA. 68+00.00

MEADOW PARK LANE



STA. 67+50.00

MEADOW PARK LANE



STA. 67+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 67+00.00 END STA. 68+00.00

5/22/2026 11:22:11 AM
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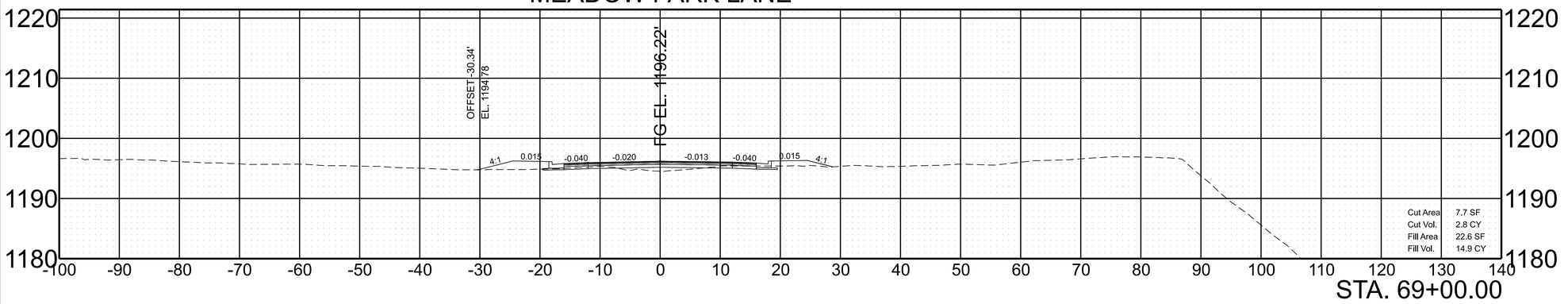
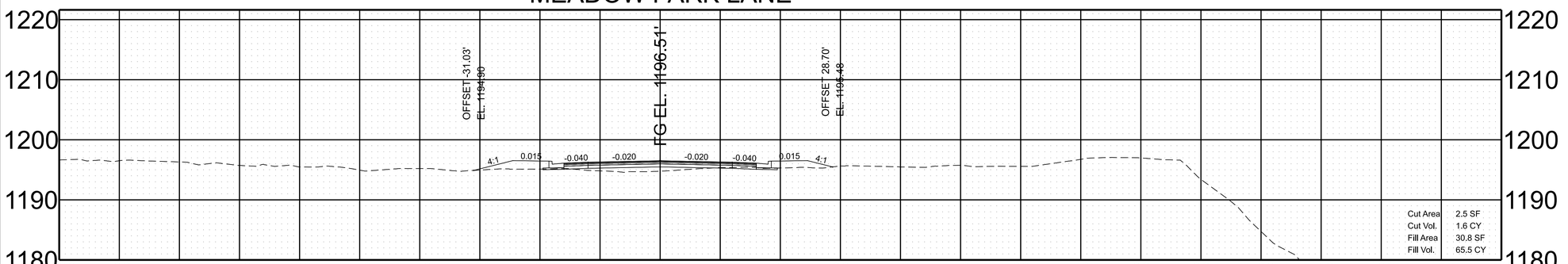
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	113
PIH	2026	82956-3594-04	116
PS&E	2026	82956-3594-04	116

MEADOW PARK LANE



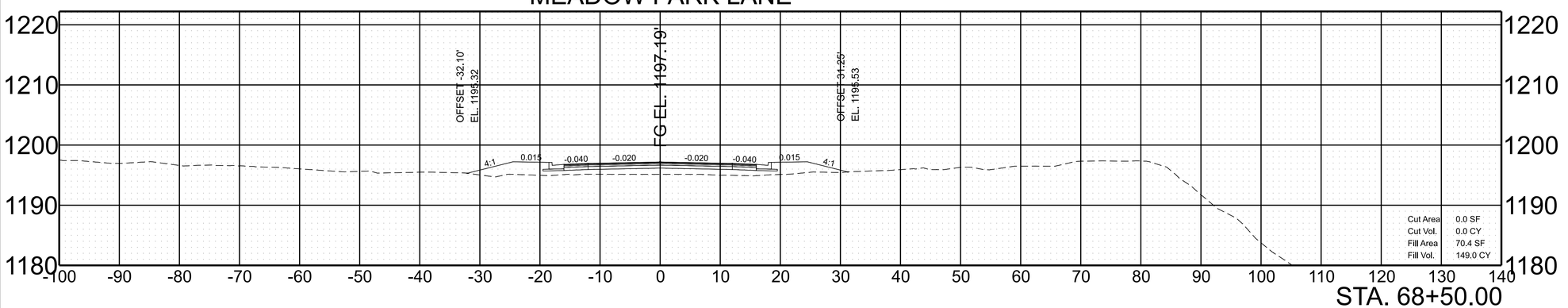
STA. 69+00.00

MEADOW PARK LANE



STA. 68+84.93

MEADOW PARK LANE



STA. 68+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 68+50.00 END STA. 69+00.00

5/22/2026 11:22:16 AM
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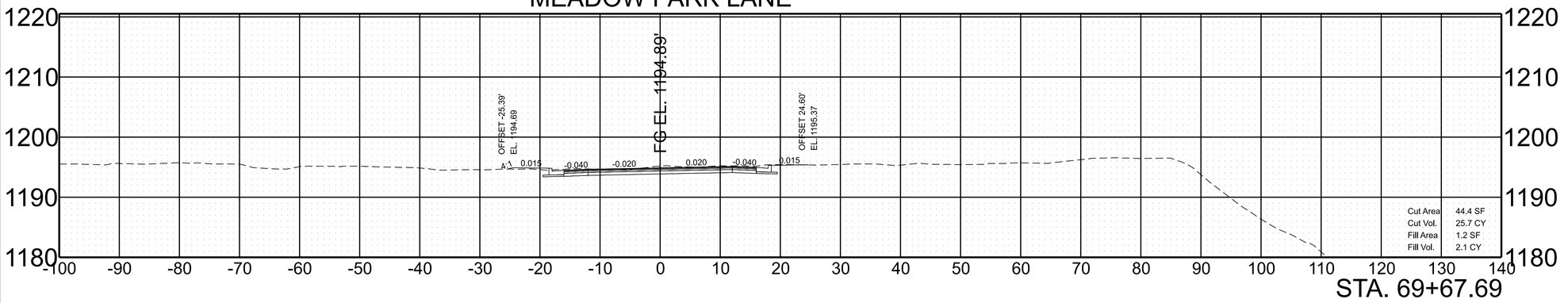
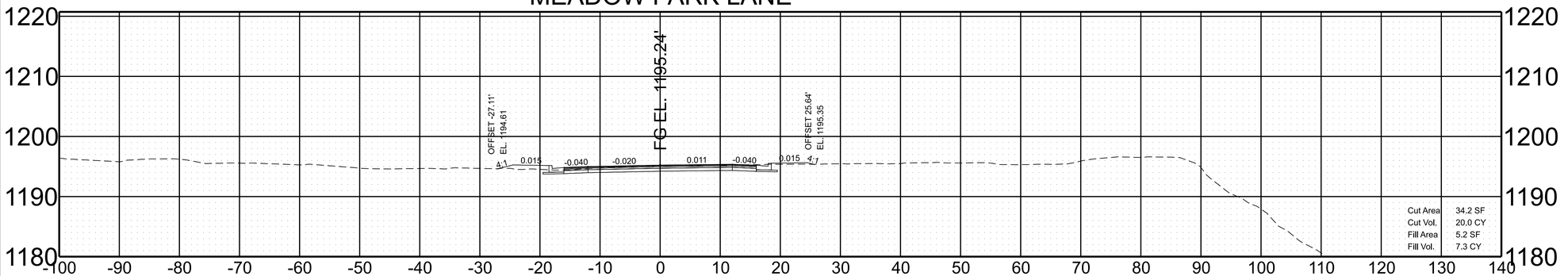
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	114
PIH	2026	82956-3594-04	117
PS&E	2026	82956-3594-04	117

MEADOW PARK LANE



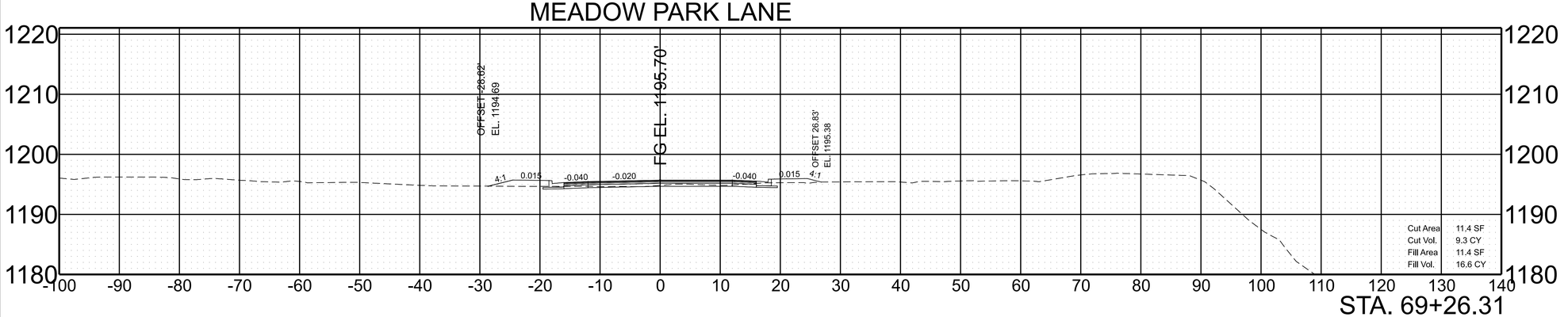
STA. 69+67.69

MEADOW PARK LANE



STA. 69+50.00

MEADOW PARK LANE



STA. 69+26.31

SCALE:	1"=10' HORIZ.	BEGIN STA. 69+26.31
	1"=10' VERT.	END STA. 69+67.69

5/22/2026 11:22:21 AM
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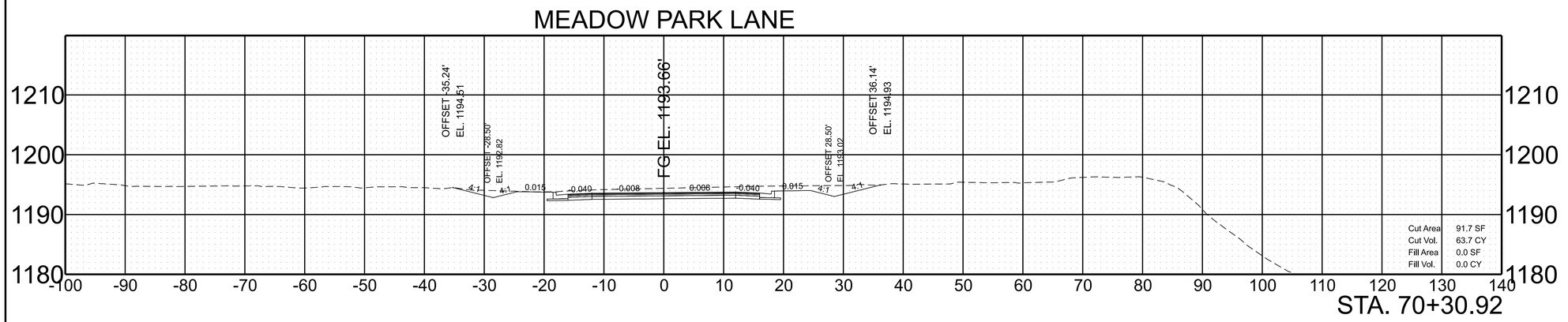
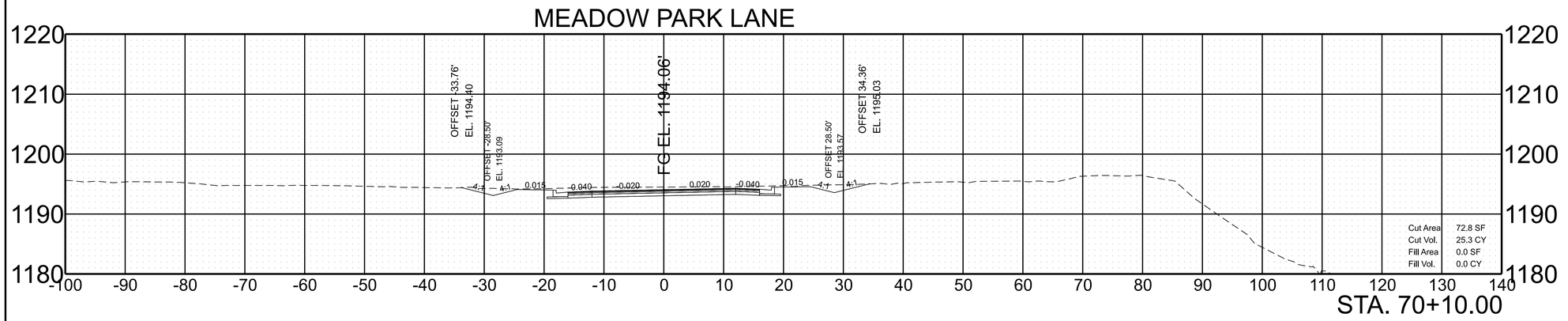
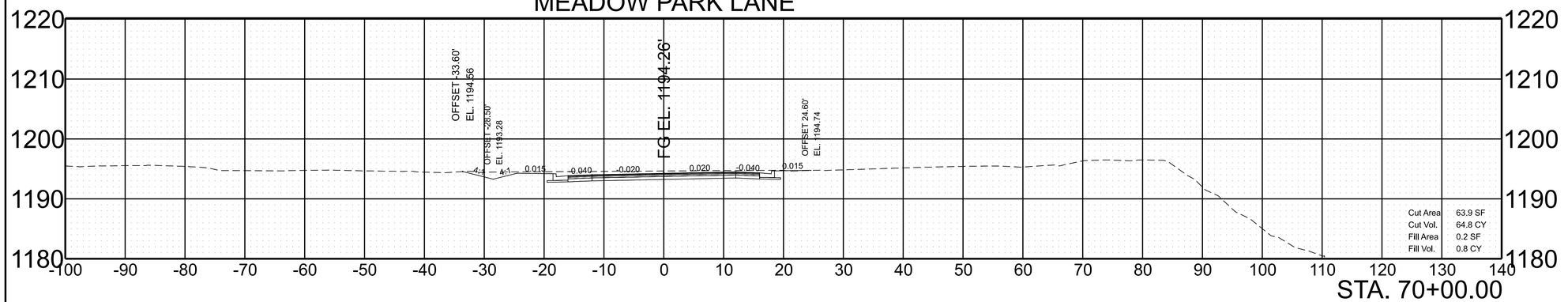
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	115
PIH	2026	82956-3594-04	118
PS&E	2026	82956-3594-04	118





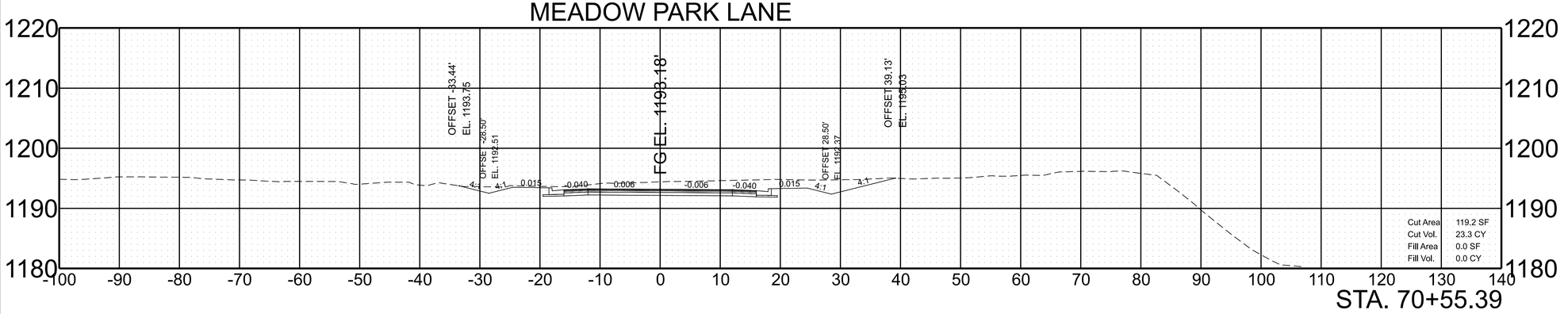


SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 70+00.00 END STA. 70+30.92

5/22/2026 11:22:25 AM
F:\37\37743\37743002\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-MEADOWPARKLANE.DGN

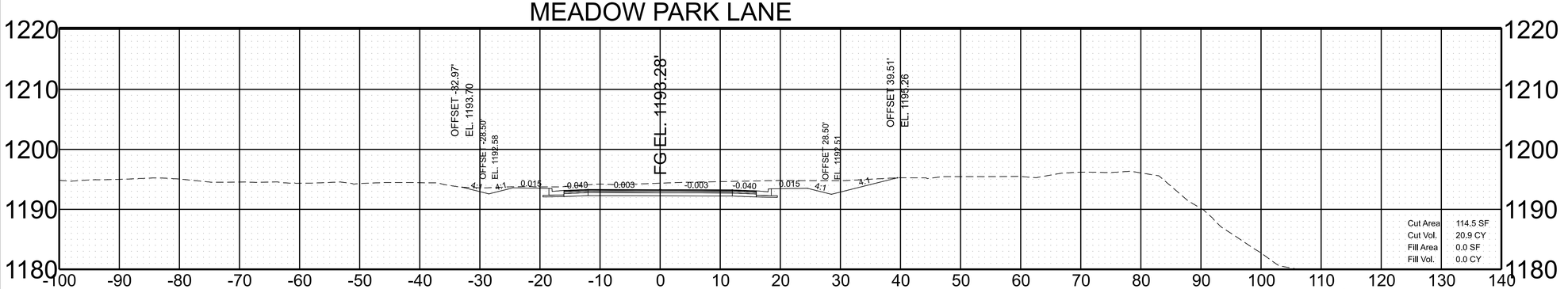
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	116
PIH	2026	82956-3594-04	119
PS&E	2026	82956-3594-04	119

MEADOW PARK LANE



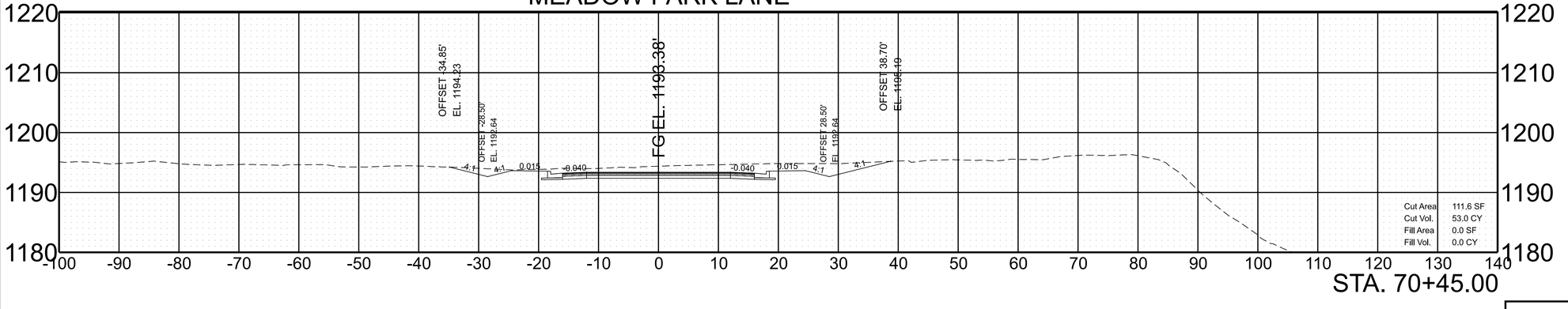
STA. 70+55.39

MEADOW PARK LANE



STA. 70+50.00

MEADOW PARK LANE



STA. 70+45.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 70+45.00 END STA. 70+55.39

5/22/2026 11:22:30 AM
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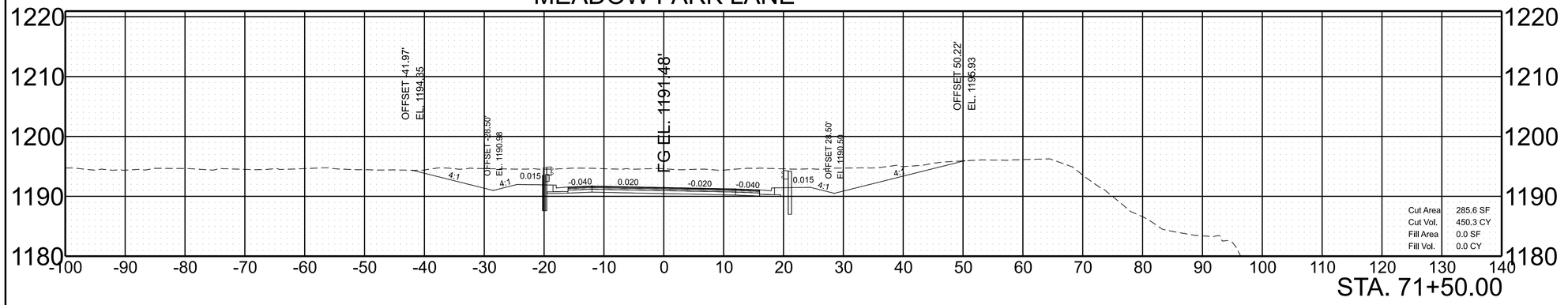
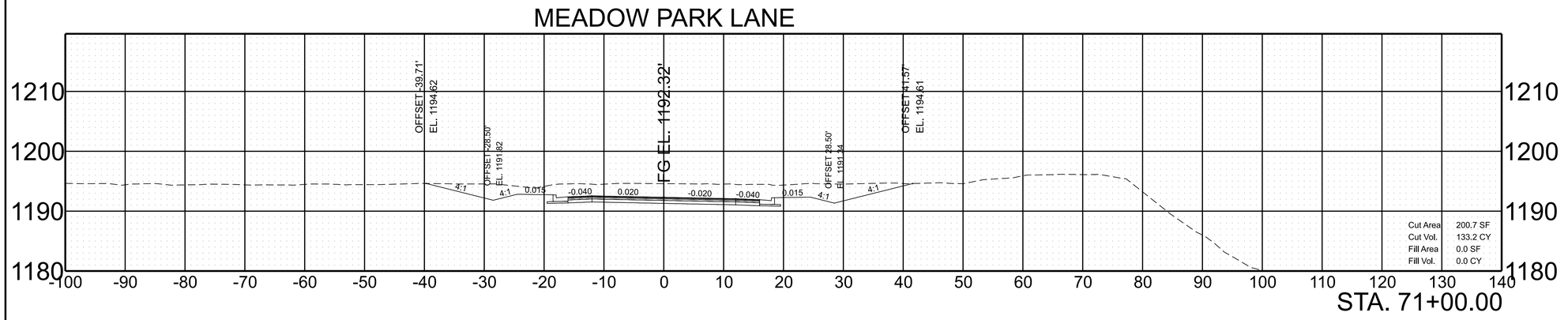
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	117
PIH	2026	82956-3594-04	120
PS&E	2026	82956-3594-04	120

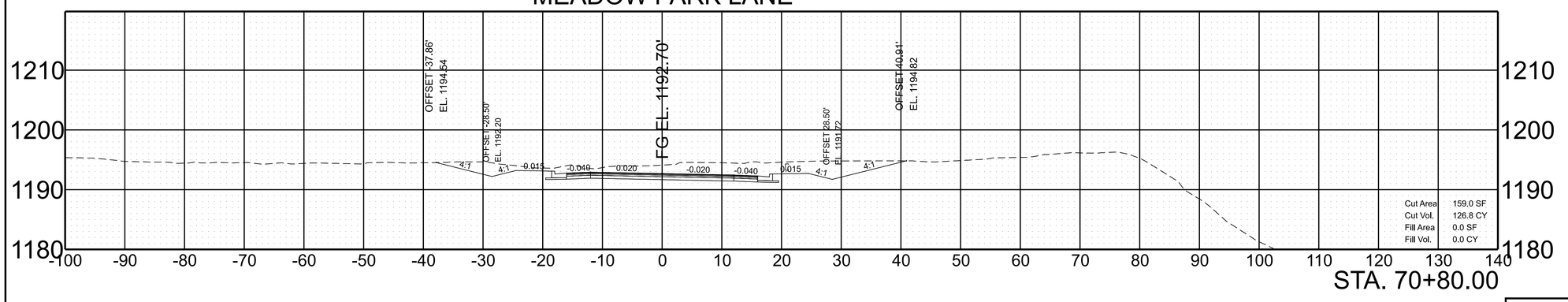
MEADOW PARK LANE



MEADOW PARK LANE



MEADOW PARK LANE



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 70+80.00 END STA. 71+50.00

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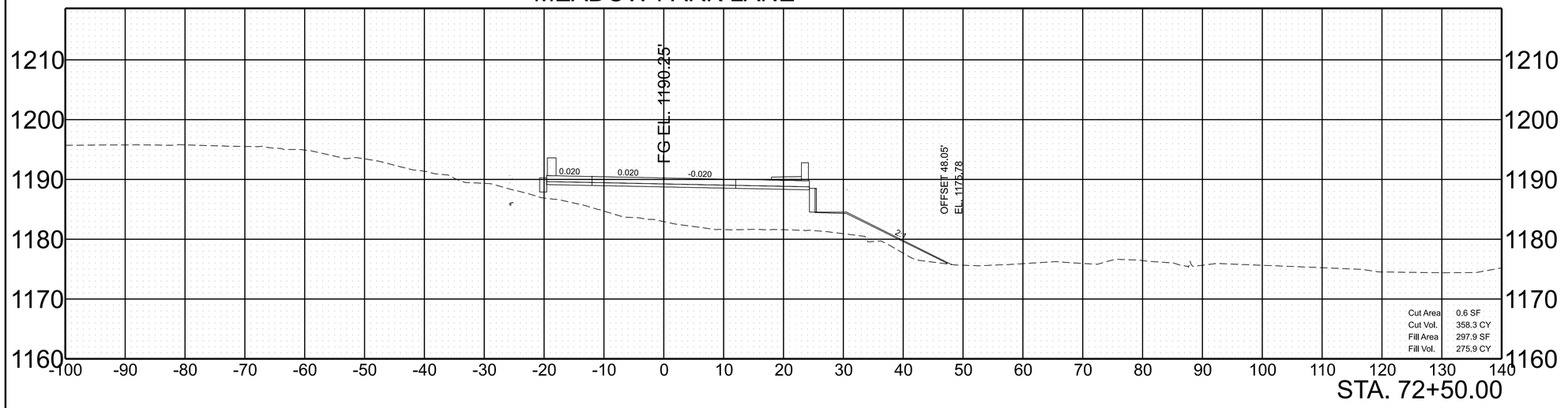
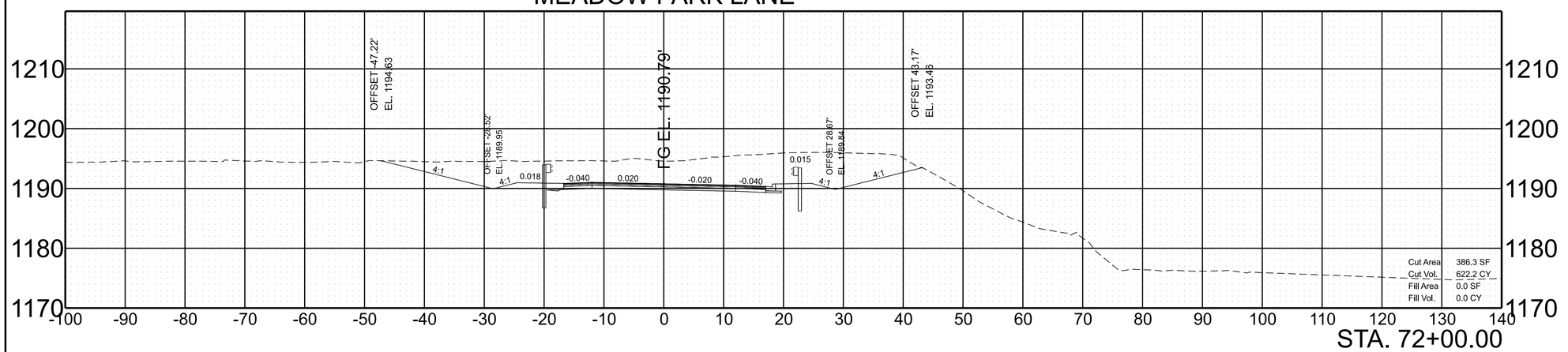
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	118
PIH	2026	82956-3594-04	121
PS&E	2026	82956-3594-04	121

MEADOW PARK LANE



STA. 72+50.00

MEADOW PARK LANE



STA. 72+00.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 72+00.00
	1"=10' VERT.	END STA. 72+50.00

5/22/2026 11:22:39 AM
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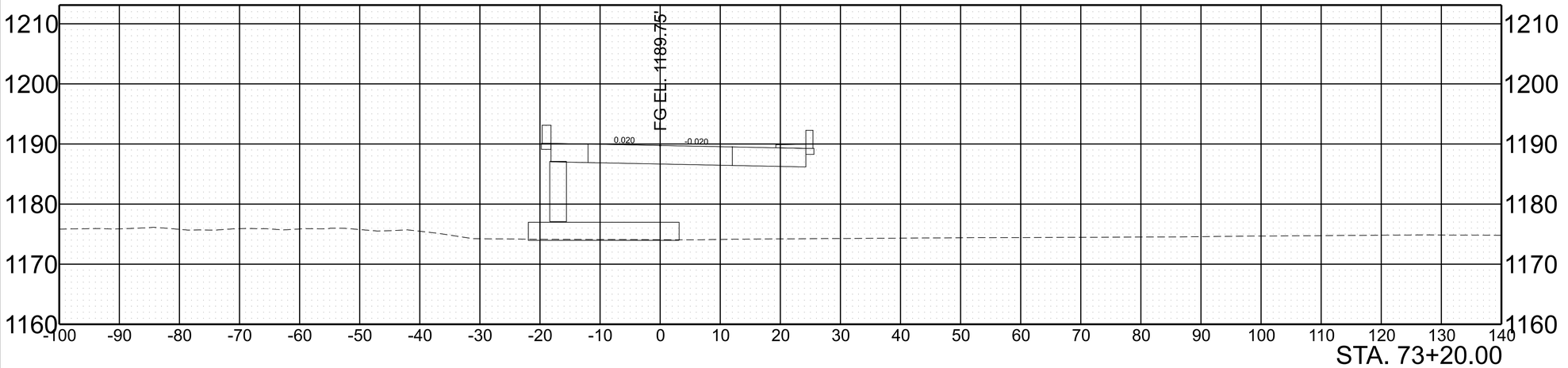
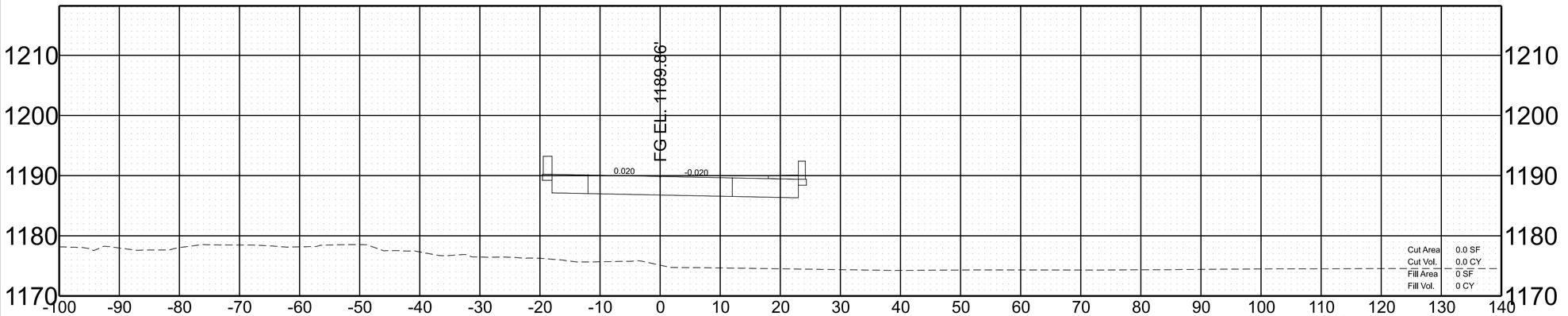
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	119
PIH	2026	82956-3594-04	122
PS&E	2026	82956-3594-04	122

MEADOW PARK LANE



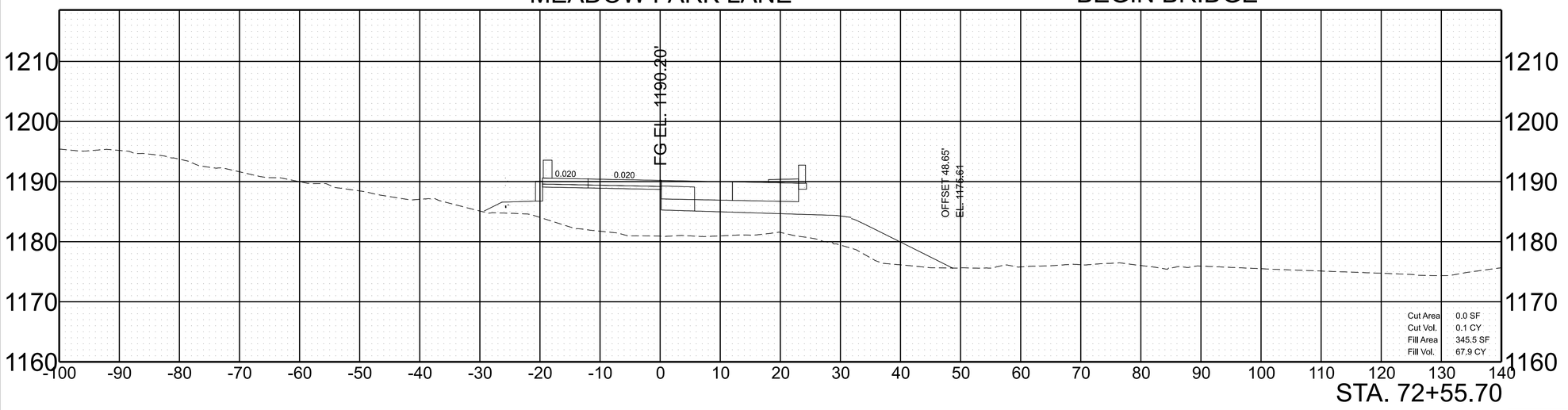
STA. 73+20.00

MEADOW PARK LANE



STA. 73+00.00

MEADOW PARK LANE — BEGIN BRIDGE



STA. 72+55.70

SCALE:	1"=10' HORIZ.	BEGIN STA. 72+55.70
	1"=10' VERT.	END STA. 73+00.00

5/22/2026 11:22:42 AM
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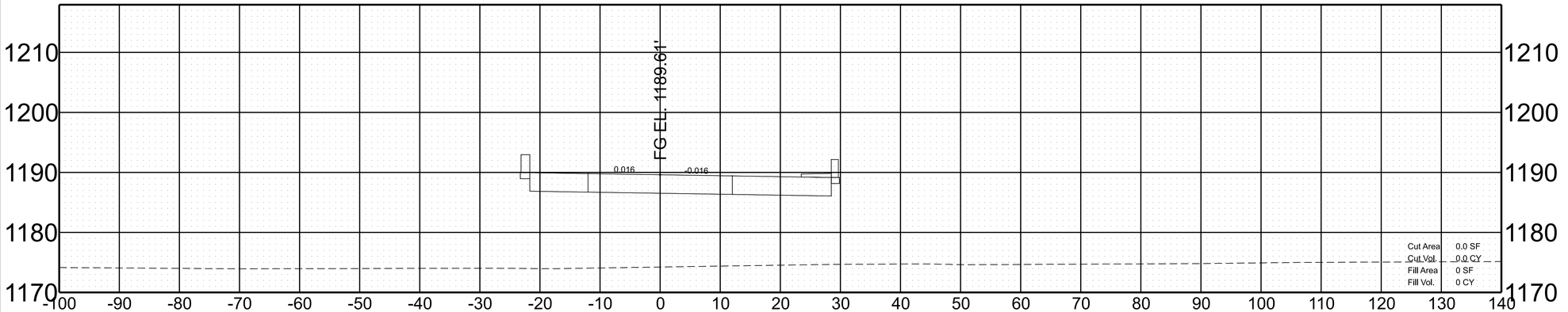
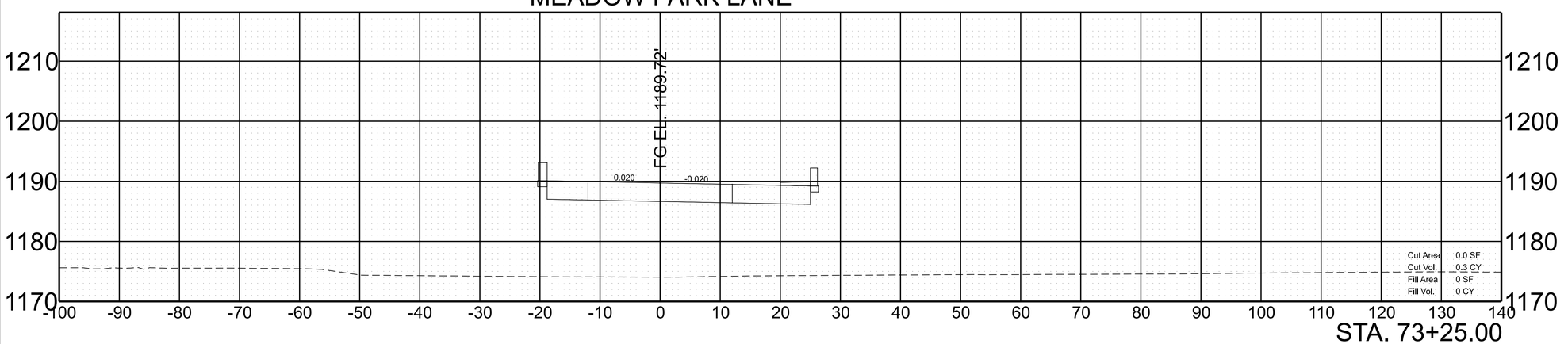
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	120
PIH	2026	82956-3594-04	123
PS&E	2026	82956-3594-04	123

MEADOW PARK LANE



STA. 73+48.02

MEADOW PARK LANE



STA. 73+25.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 73+25.00
	1"=10' VERT.	END STA. 73+48.02

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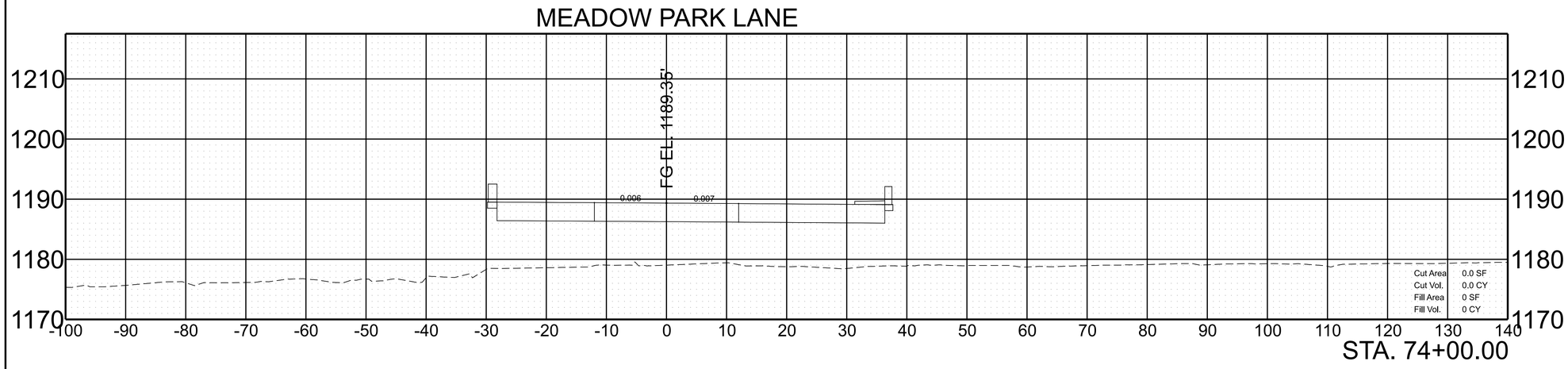
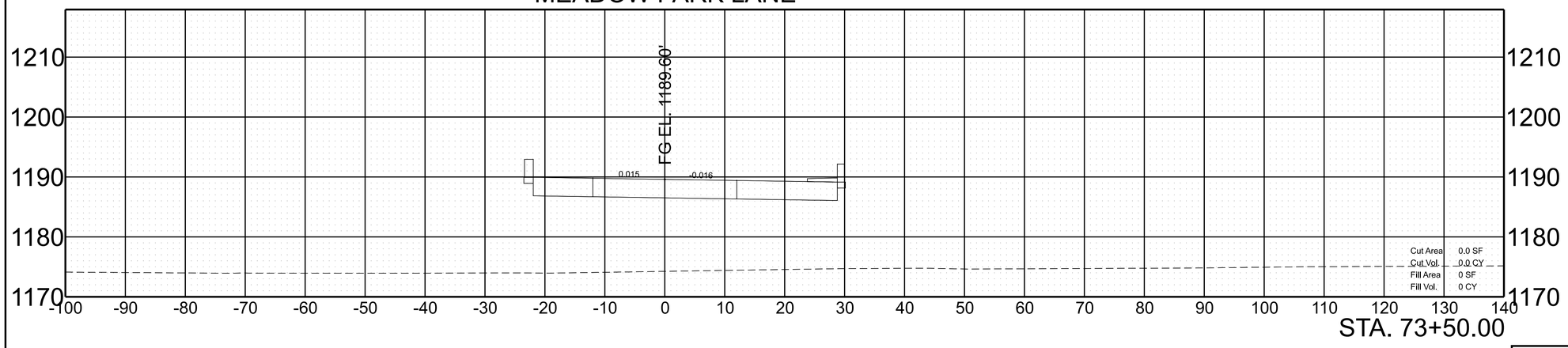
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	121
PIH	2026	82956-3594-04	124
PS&E	2026	82956-3594-04	124





SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 73+50.00 END STA. 74+00.00

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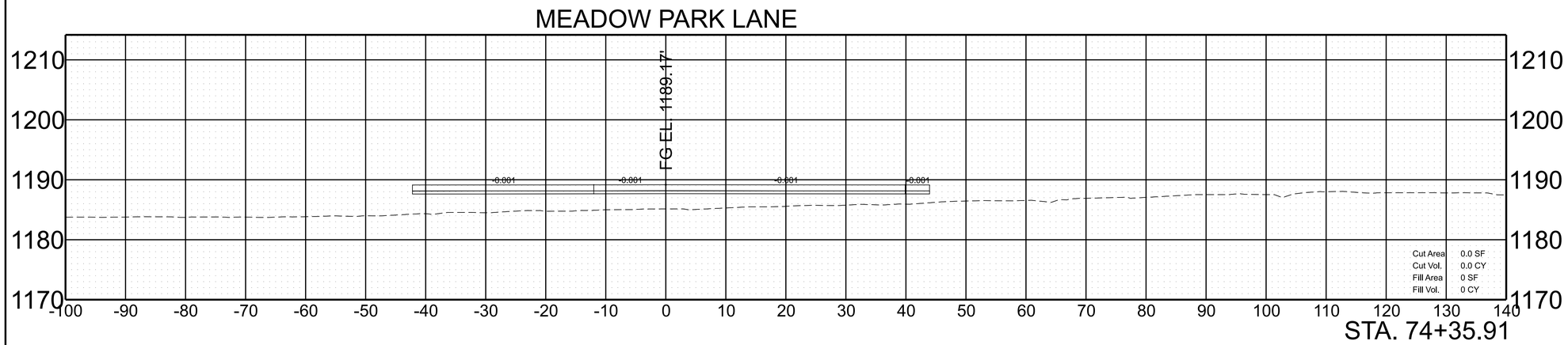
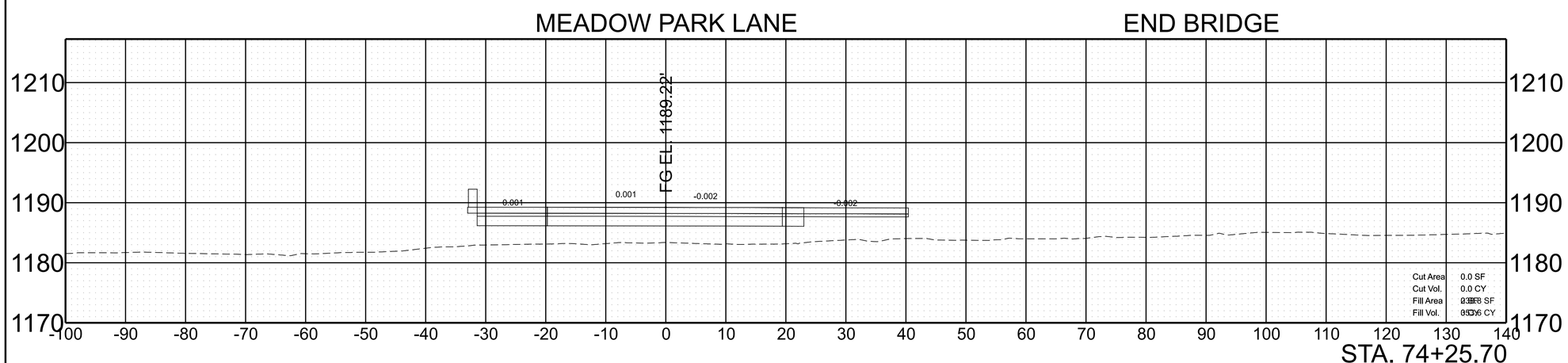
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	122
PIH	2026	82956-3594-04	125
PS&E	2026	82956-3594-04	125





SCALE:	1"=10' HORIZ.	BEGIN STA. 74+25.70
	1"=10' VERT.	END STA. 74+35.91

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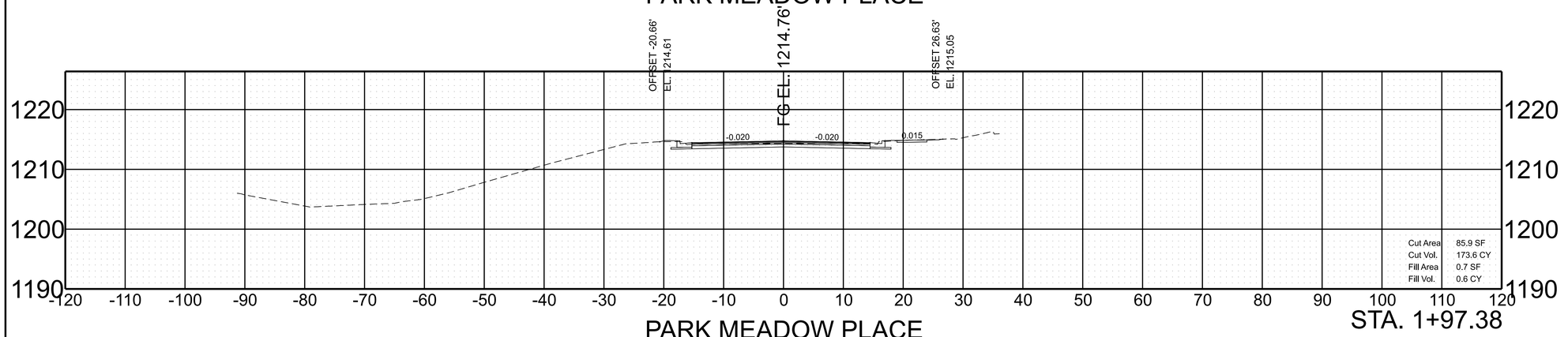
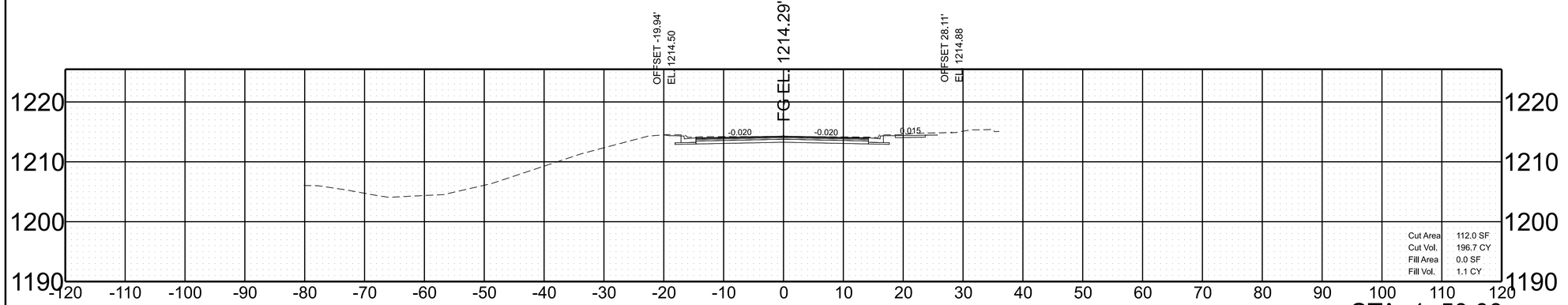
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	123
PIH	2026	82956-3594-04	126
PS&E	2026	82956-3594-04	126

PARK MEADOW PLACE



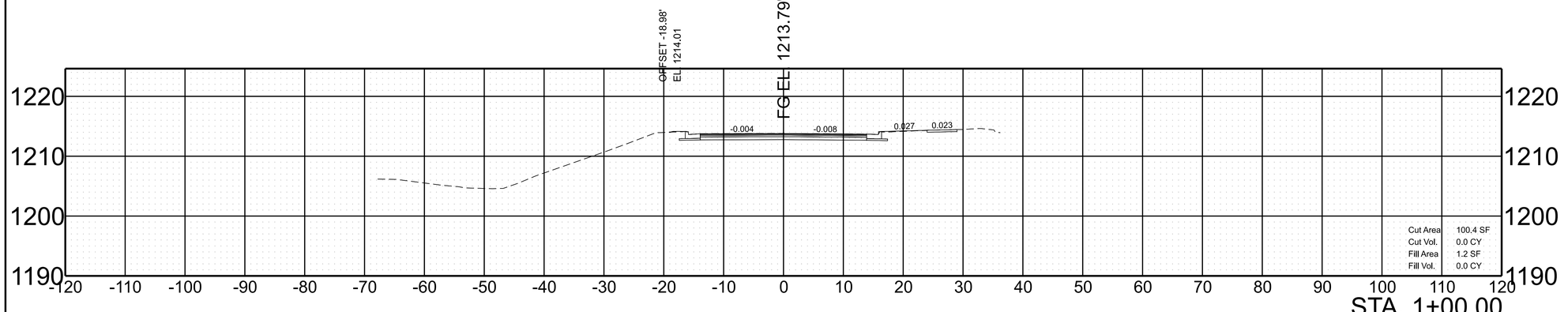
STA. 1+97.38

PARK MEADOW PLACE



STA. 1+50.00

PARK MEADOW PLACE



STA. 1+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 1+00.00 END STA. 1+97.38

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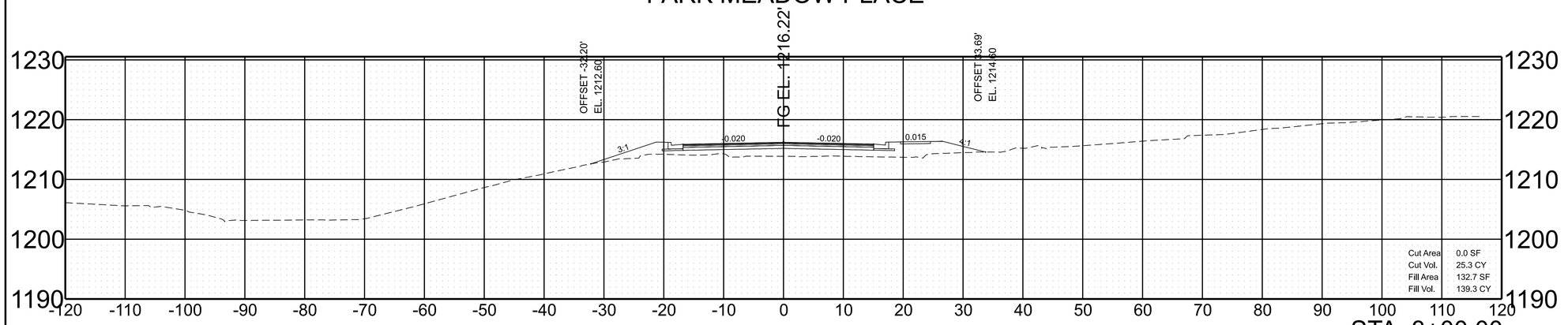
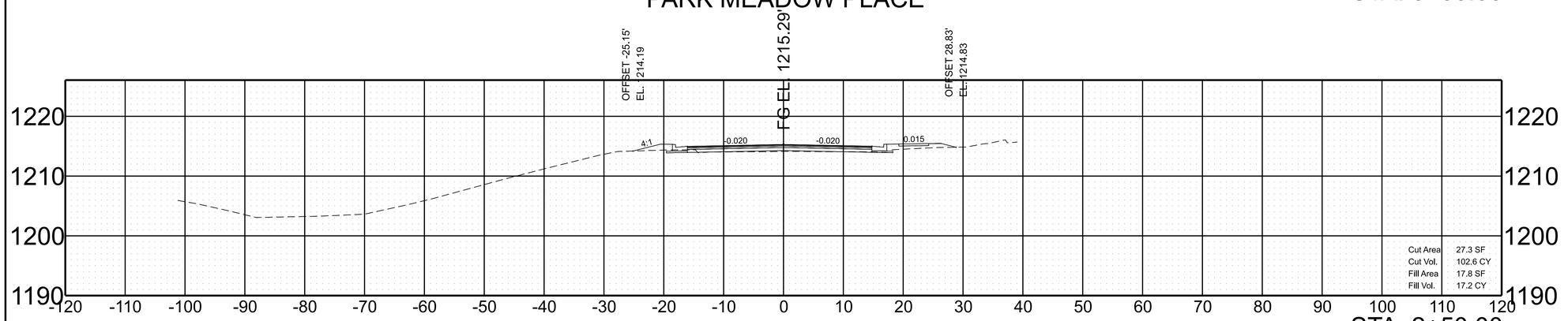
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	124
PIH	2026	82956-3594-04	127
PS&E	2026	82956-3594-04	127

PARK MEADOW PLACE



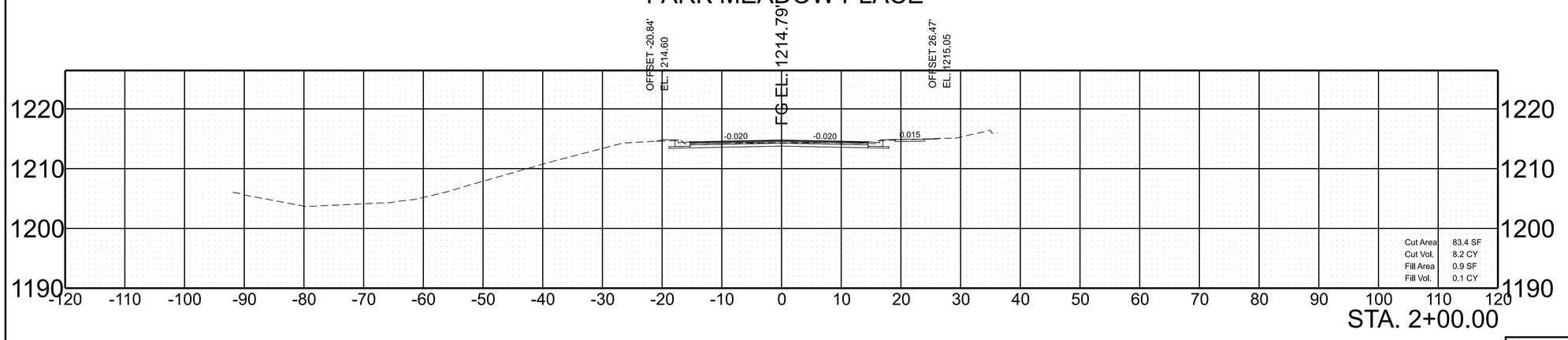
STA. 3+00.00

PARK MEADOW PLACE



STA. 2+50.00

PARK MEADOW PLACE



STA. 2+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 2+00.00 END STA. 3+00.00

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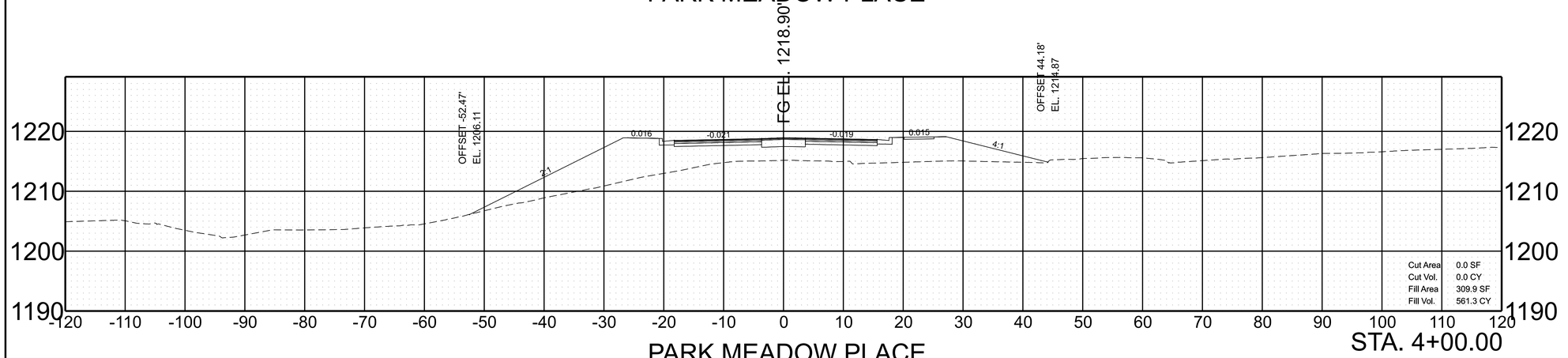
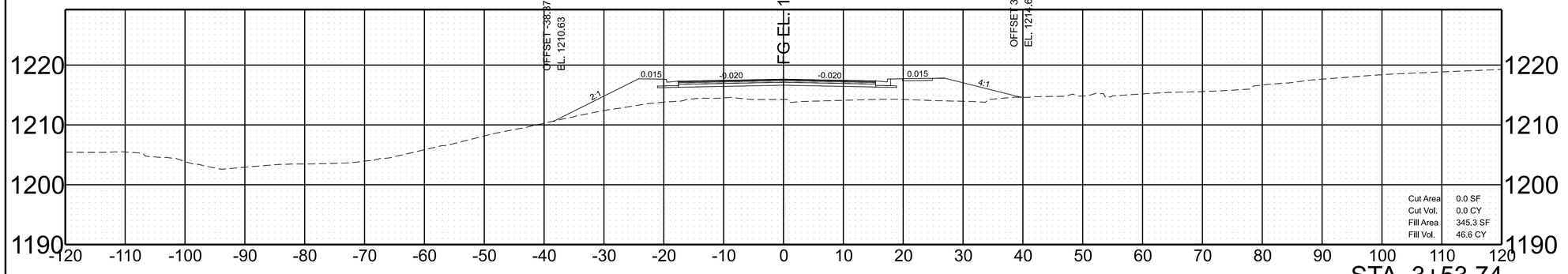
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	125
PIH	2026	82956-3594-04	128
PS&E	2026	82956-3594-04	128

PARK MEADOW PLACE



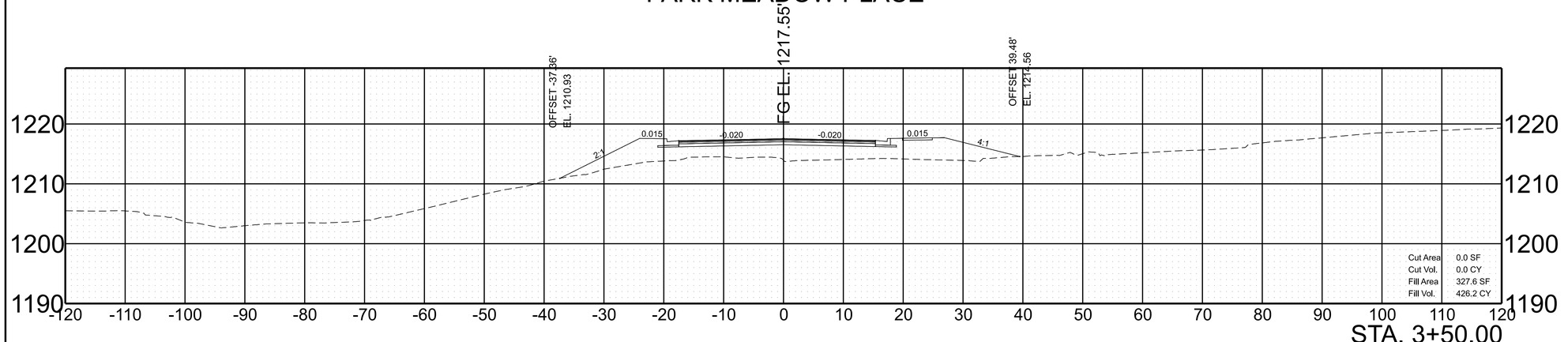
STA. 4+00.00

PARK MEADOW PLACE



STA. 3+53.74

PARK MEADOW PLACE



STA. 3+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 3+50.00 END STA. 4+00.00

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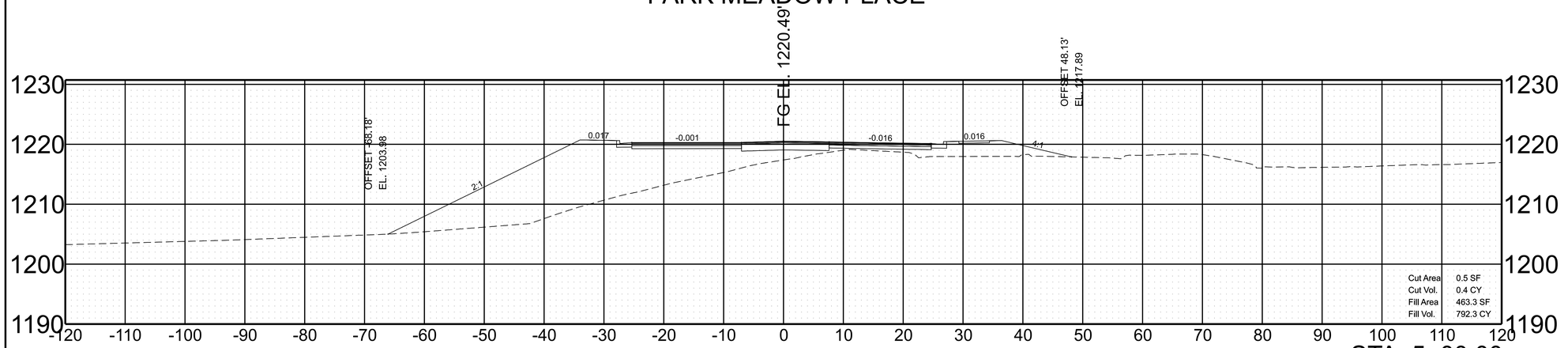
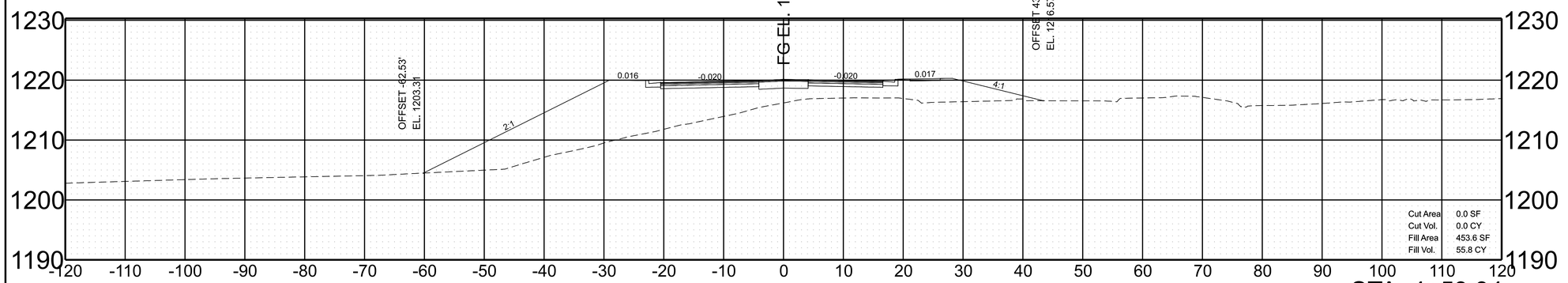
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	126
PIH	2026	82956-3594-04	129
PS&E	2026	82956-3594-04	129

PARK MEADOW PLACE



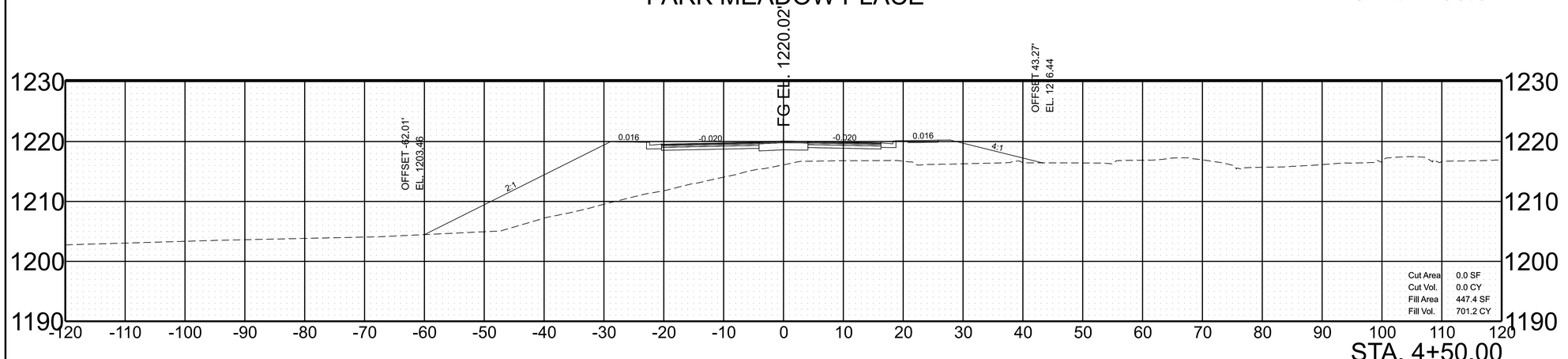
STA. 5+00.00

PARK MEADOW PLACE



STA. 4+53.34

PARK MEADOW PLACE



STA. 4+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 4+50.00 END STA. 5+00.00

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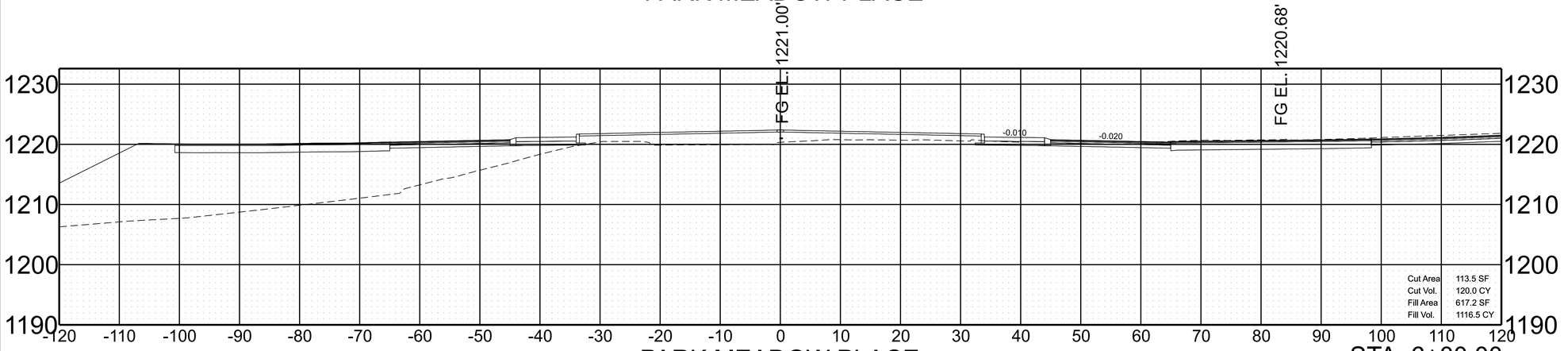
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	127
PIH	2026	82956-3594-04	130
PS&E	2026	82956-3594-04	130

END CONST. STA. 6+00.00

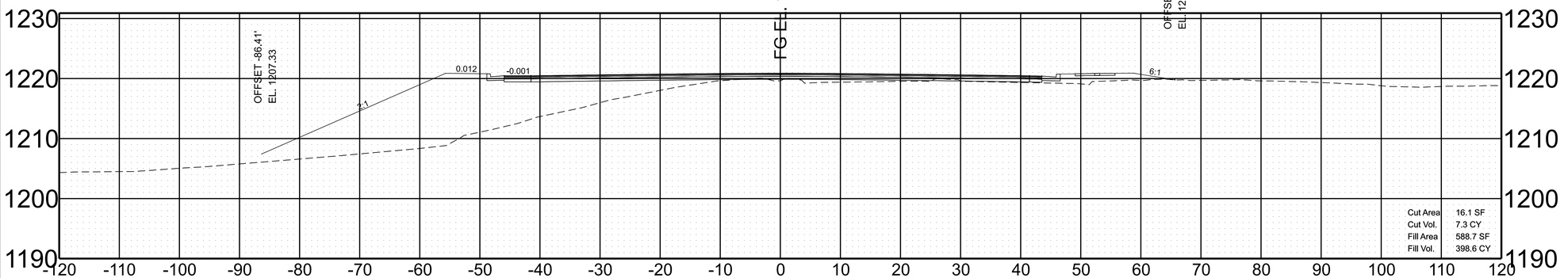
PARK MEADOW PLACE



PARK MEADOW PLACE

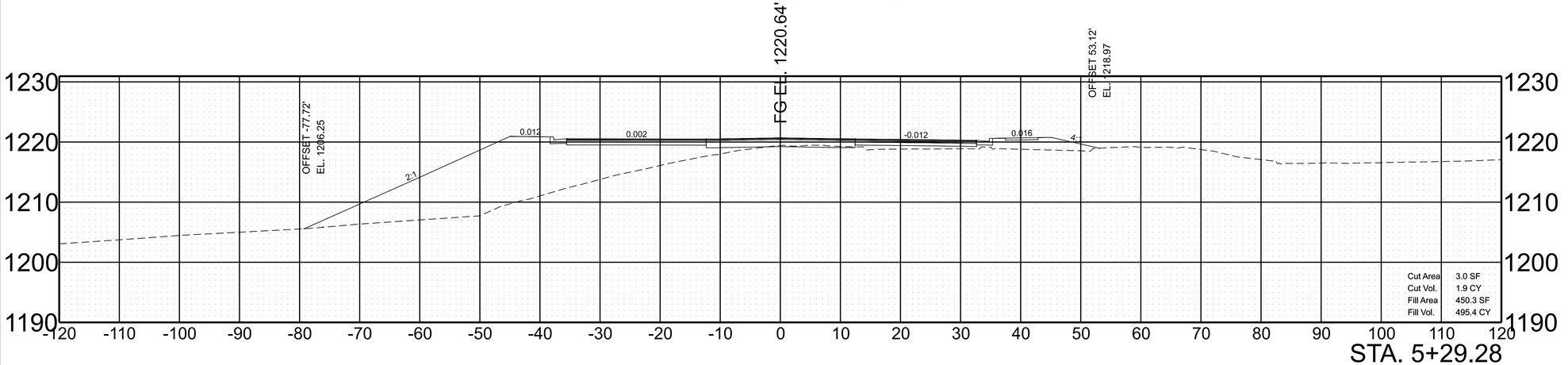
STA. 6+00.00

PARK MEADOW PLACE



PARK MEADOW PLACE

STA. 5+50.00



STA. 5+29.28

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 5+29.28 END STA. 6+00.00

5/26/2026 8:20:48 AM
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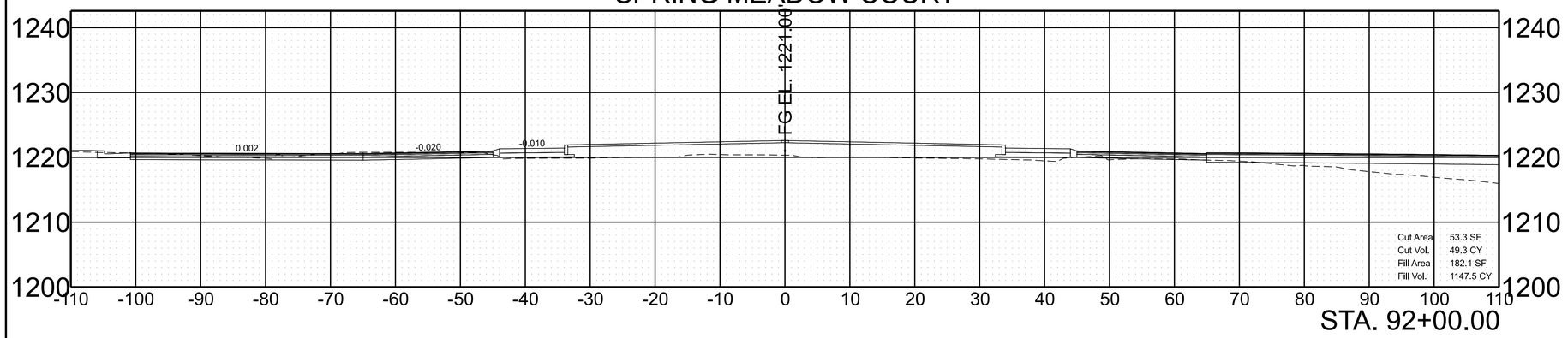
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	128
PIH	2026	82956-3594-04	131
PS&E	2026	82956-3594-04	131

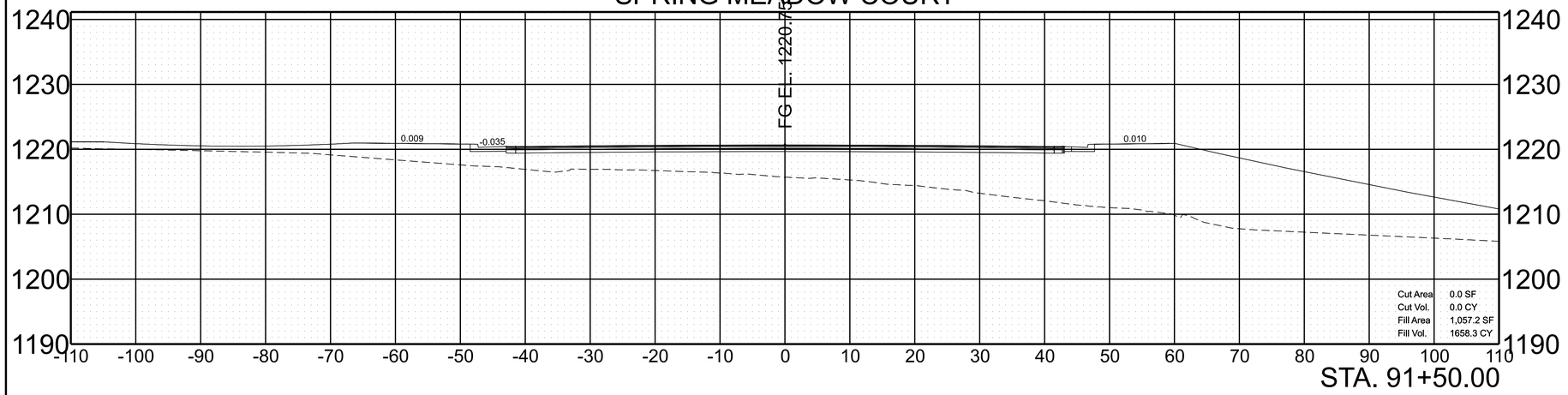
REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.

SPRING MEADOW COURT



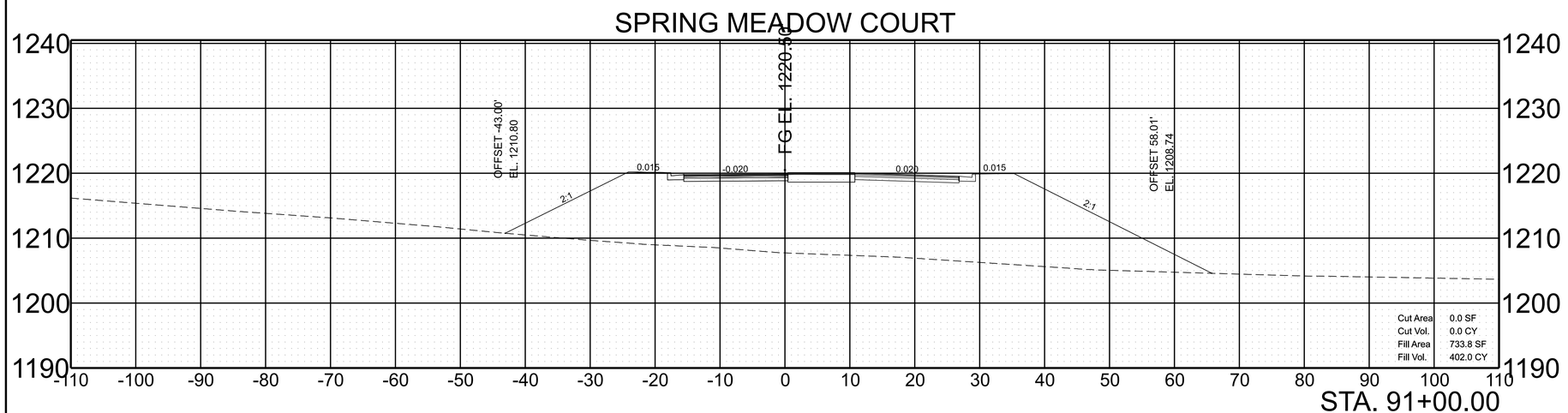
STA. 92+00.00

SPRING MEADOW COURT



STA. 91+50.00

SPRING MEADOW COURT



STA. 91+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 91+50.00
	1"=10' VERT.	END STA. 92+00.00

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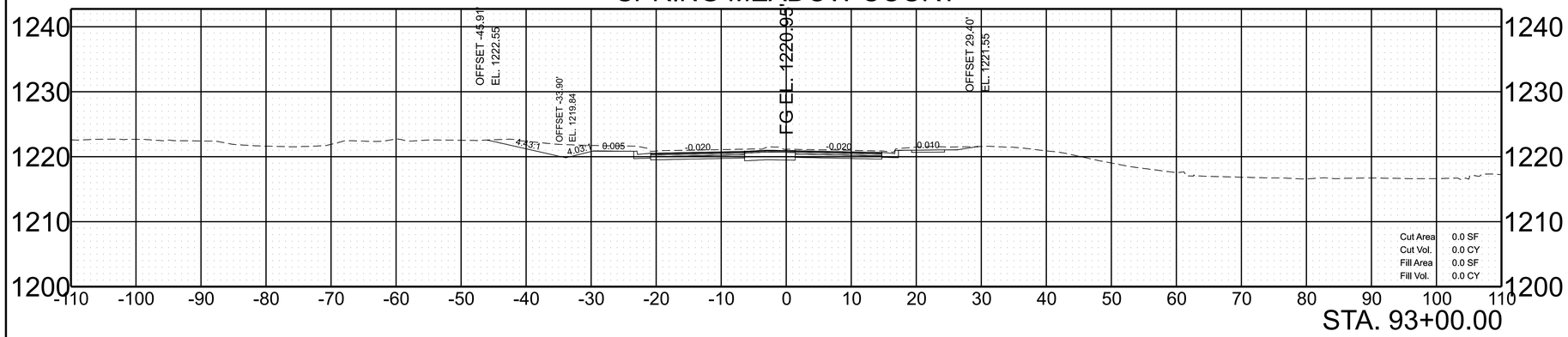
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	129
PIH	2026	82956-3594-04	132
PS&E	2026	82956-3594-04	132

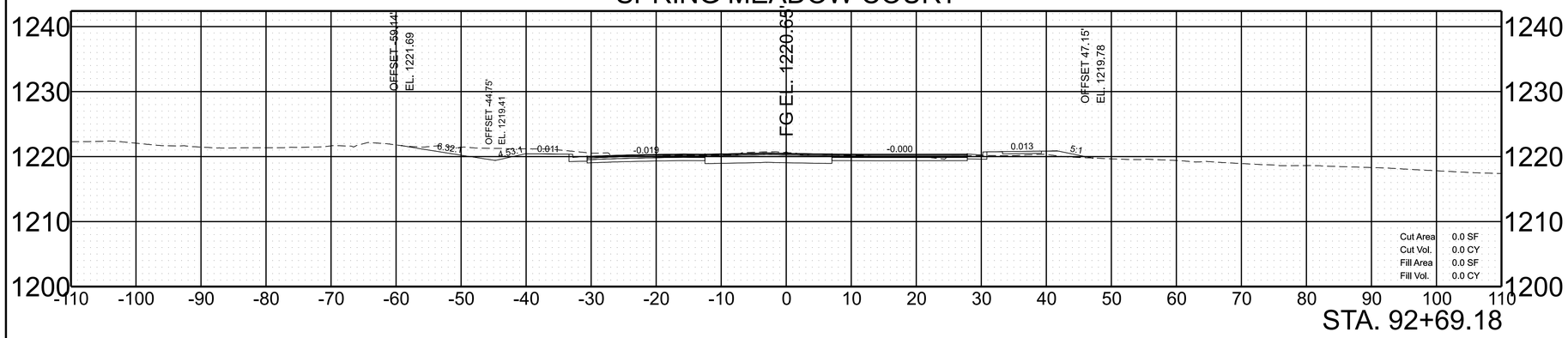
REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.

SPRING MEADOW COURT



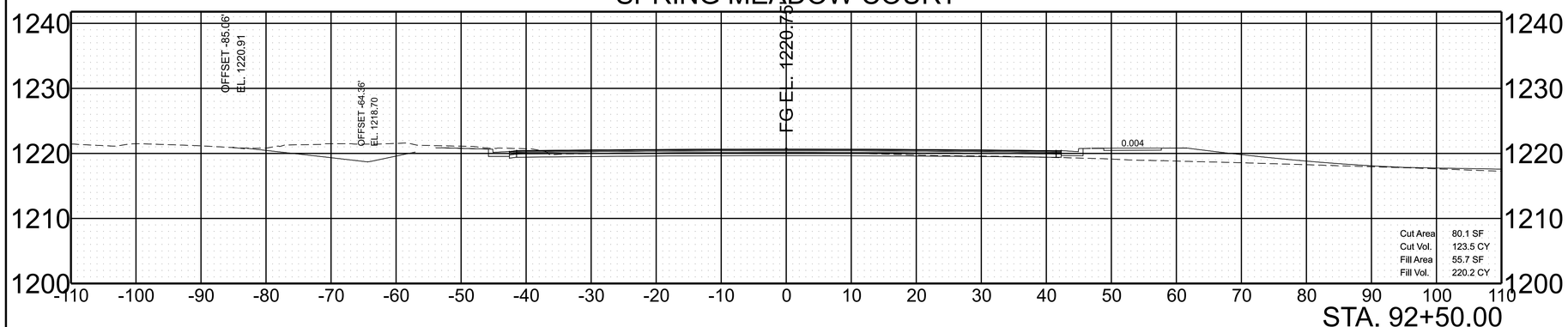
STA. 93+00.00

SPRING MEADOW COURT



STA. 92+69.18

SPRING MEADOW COURT



STA. 92+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 92+50.00
	1"=10' VERT.	END STA. 93+00.00

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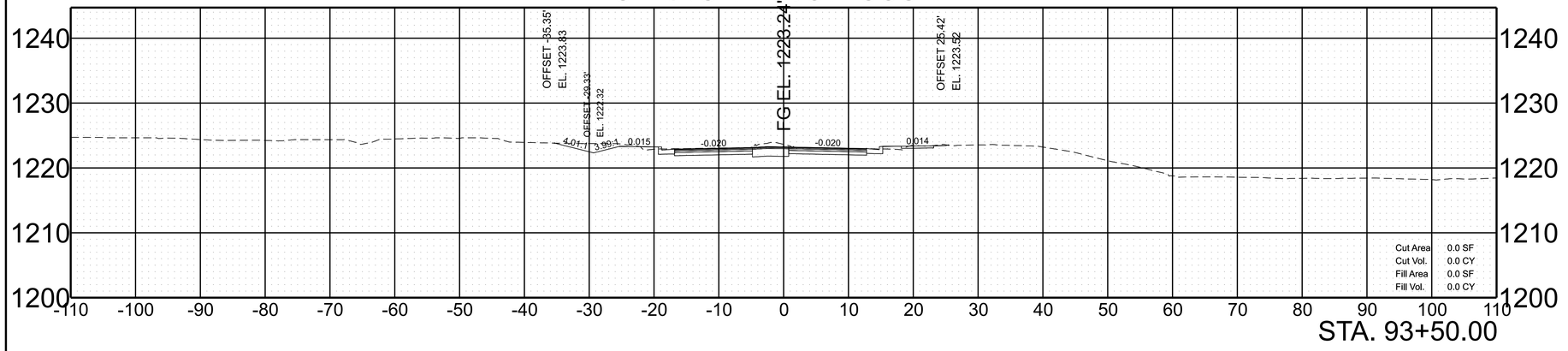
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	130
PIH	2026	82956-3594-04	133
PS&E	2026	82956-3594-04	133

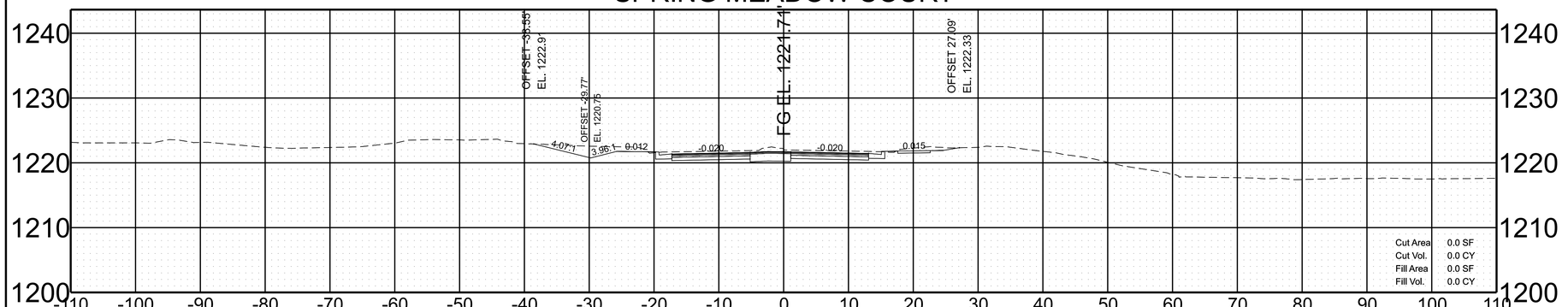
REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.

SPRING MEADOW COURT



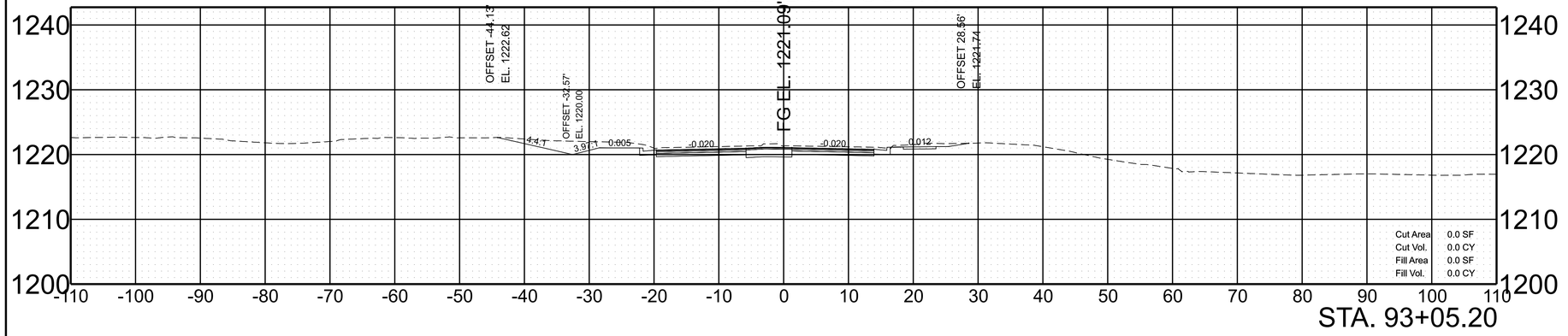
STA. 93+50.00

SPRING MEADOW COURT



STA. 93+21.43

SPRING MEADOW COURT



STA. 93+05.20

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 93+05.20 END STA. 93+50.00

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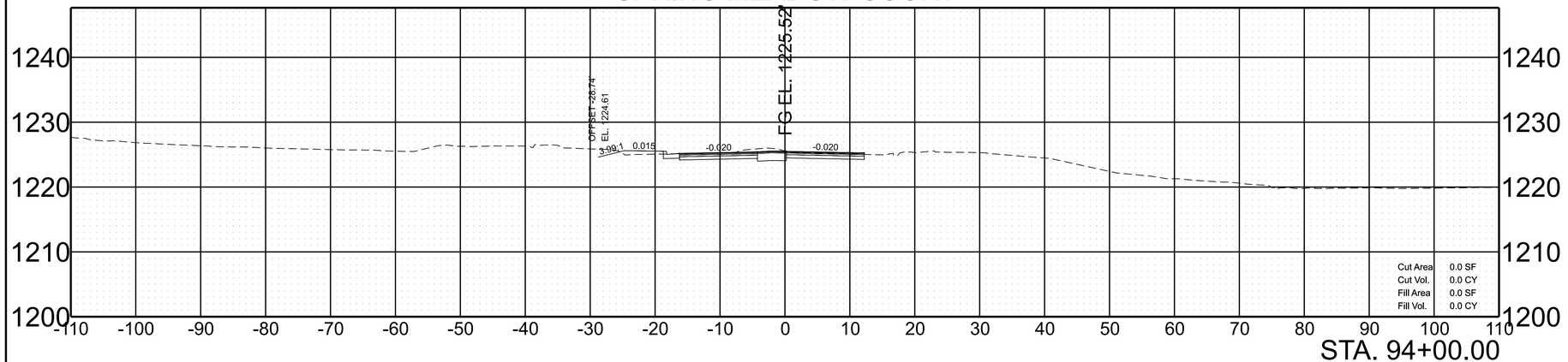
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	131
PIH	2026	82956-3594-04	134
PS&E	2026	82956-3594-04	134

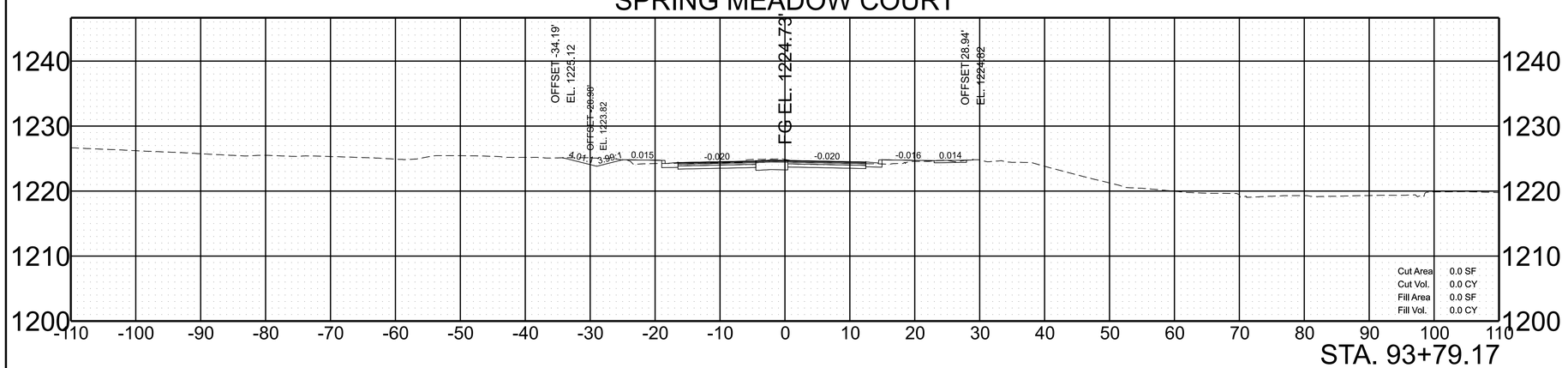
REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.

SPRING MEADOW COURT



STA. 94+00.00

SPRING MEADOW COURT



STA. 93+79.17

SCALE:	1"=10' HORIZ.	BEGIN STA. 93+79.17
	1"=10' VERT.	END STA. 94+00.00

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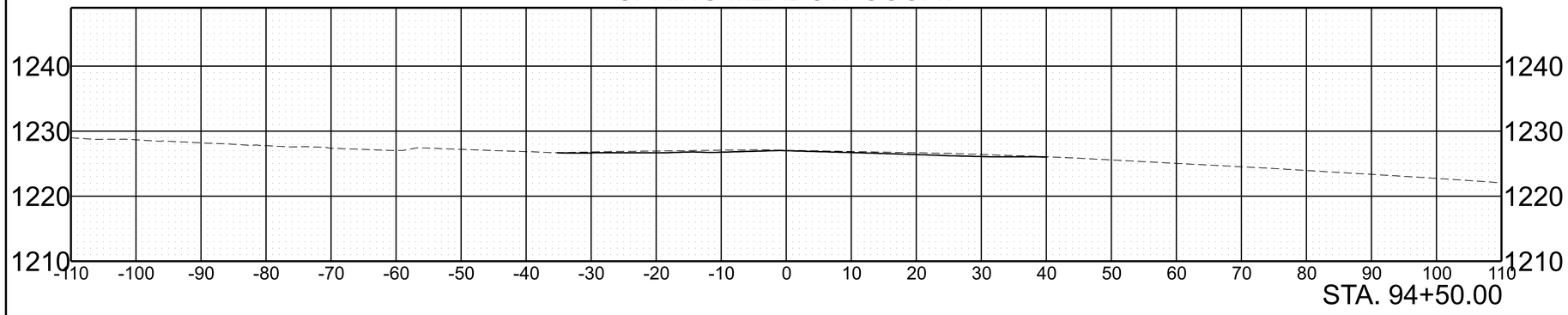
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	132
PIH	2026	82956-3594-04	135
PS&E	2026	82956-3594-04	135

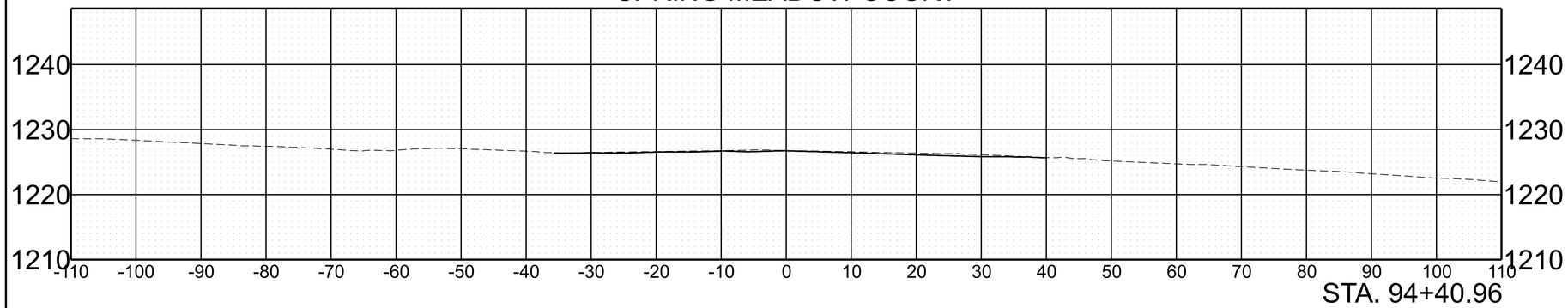
REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.

SPRING MEADOW COURT



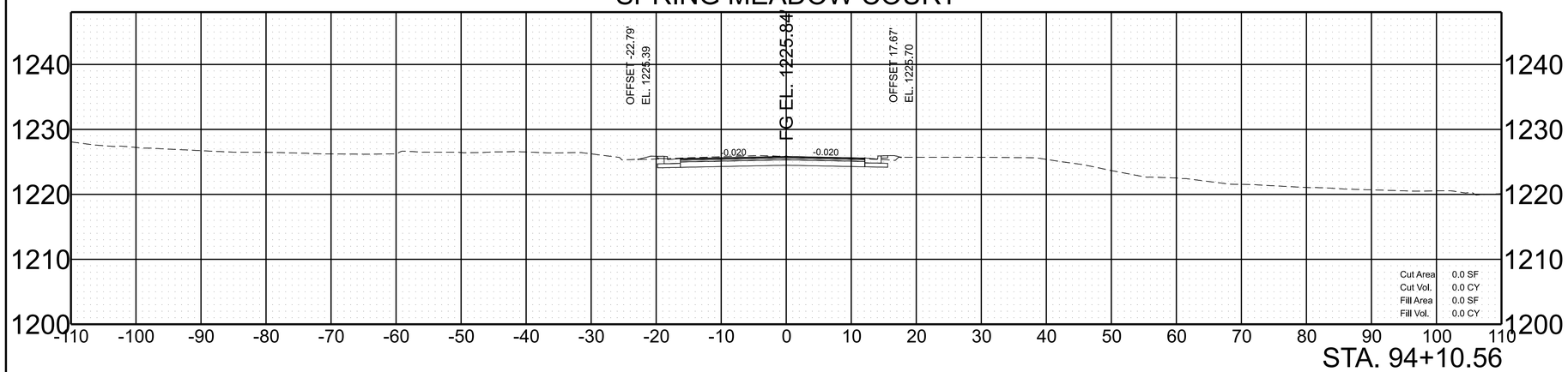
STA. 94+50.00

SPRING MEADOW COURT



STA. 94+40.96

SPRING MEADOW COURT



STA. 94+10.56

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 94+10.56 END STA. 94+50.00

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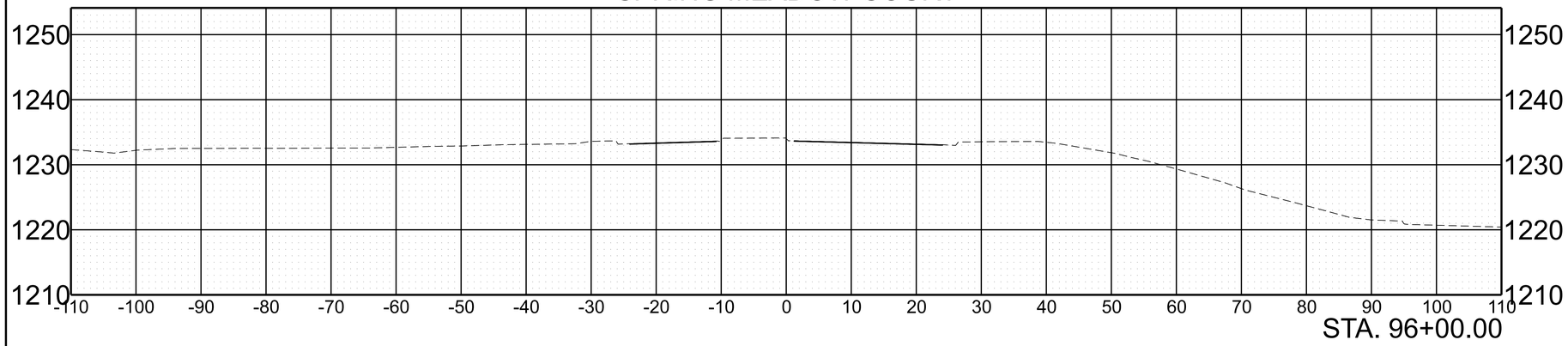
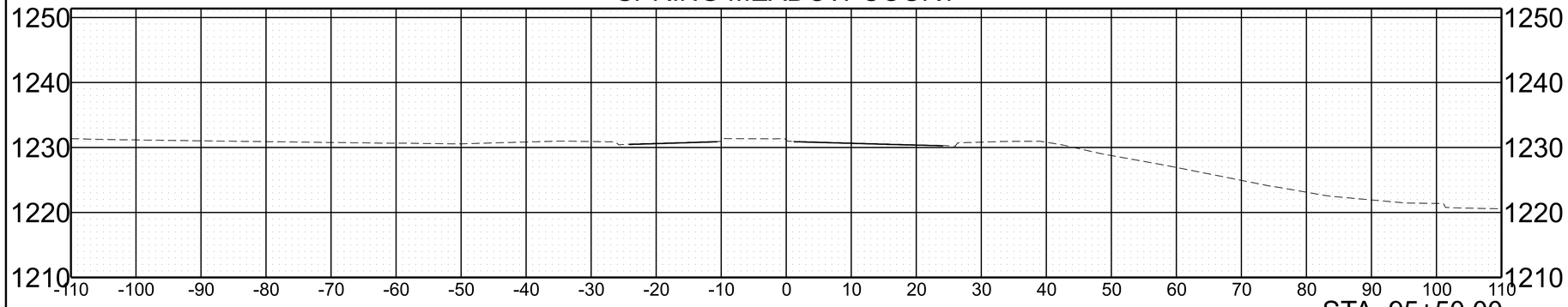
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	133
PIH	2026	82956-3594-04	136
PS&E	2026	82956-3594-04	136

SPRING MEADOW COURT



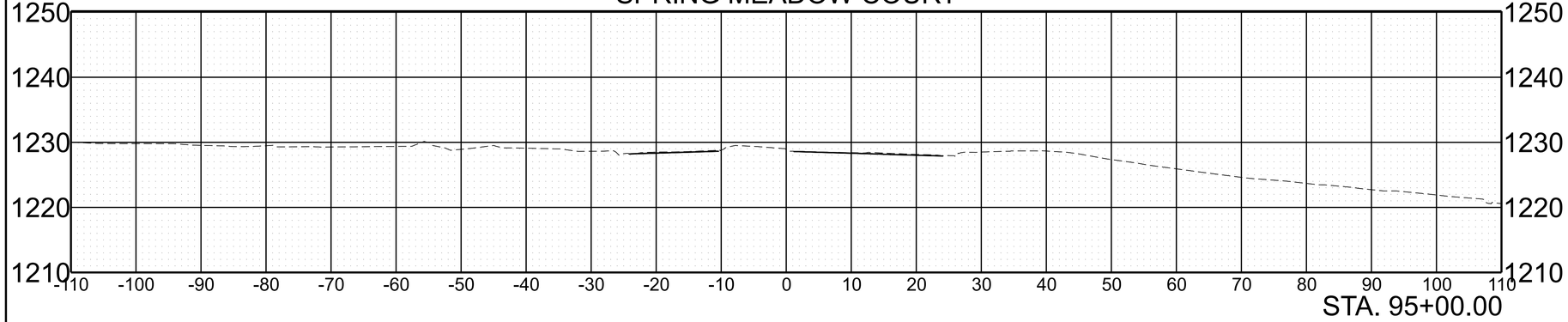
STA. 96+00.00

SPRING MEADOW COURT



STA. 95+50.00

SPRING MEADOW COURT



STA. 95+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 95+00.00
	1"=10' VERT.	END STA. 96+00.00

5/19/2026 4:07:22 PM
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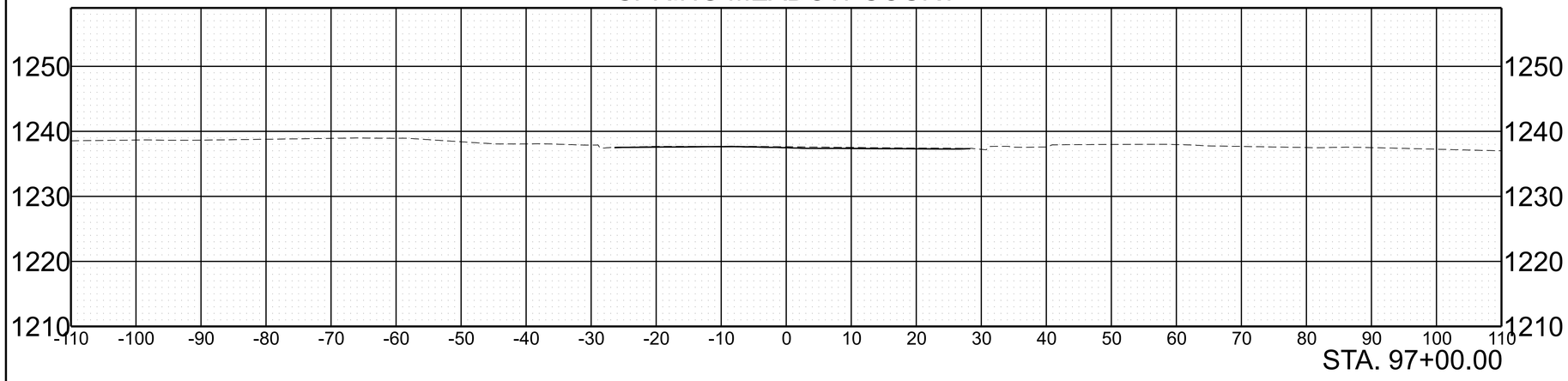
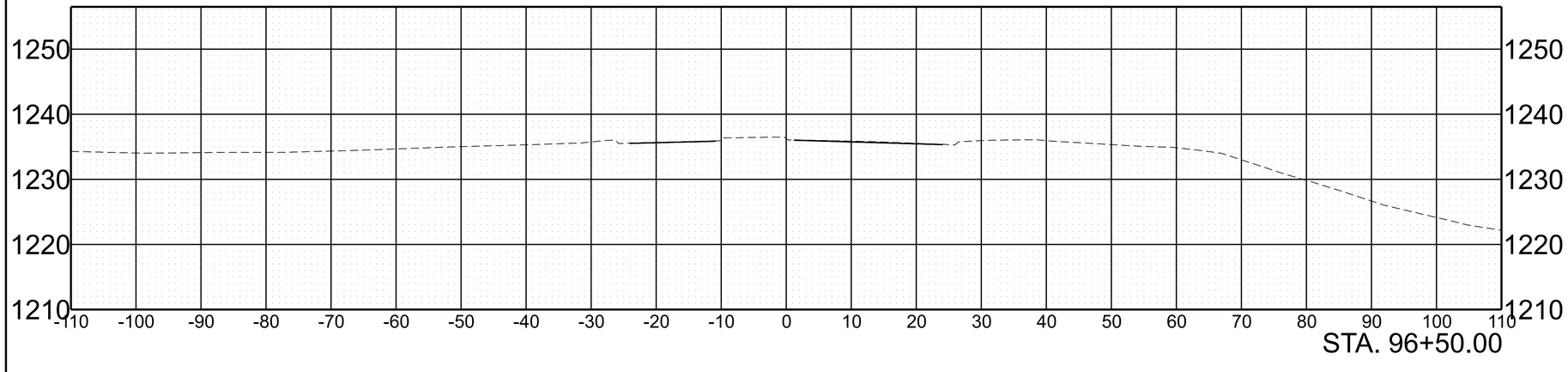
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	134
PIH	2026	82956-3594-04	137
PS&E	2026	82956-3594-04	137

SPRING MEADOW COURT



SPRING MEADOW COURT



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 96+50.00 END STA. 97+00.00

5/19/2026 4:07:25 PM
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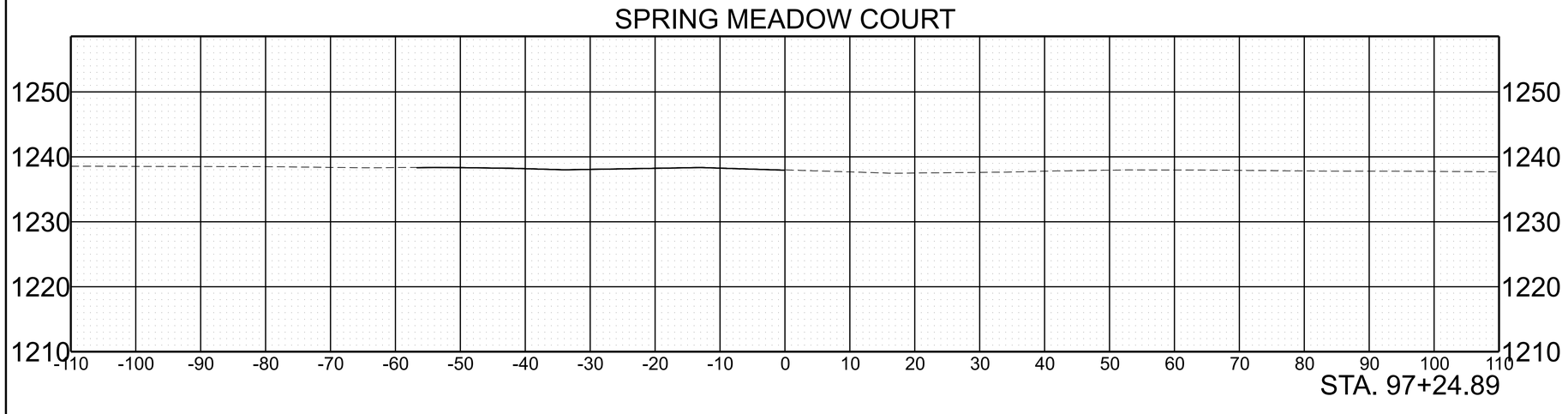
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	135
PIH	2026	82956-3594-04	138
PS&E	2026	82956-3594-04	138



SCALE:		
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	1"=10' VERT.	END STA. 97+24.89

5/19/2026 4:07:26 PM
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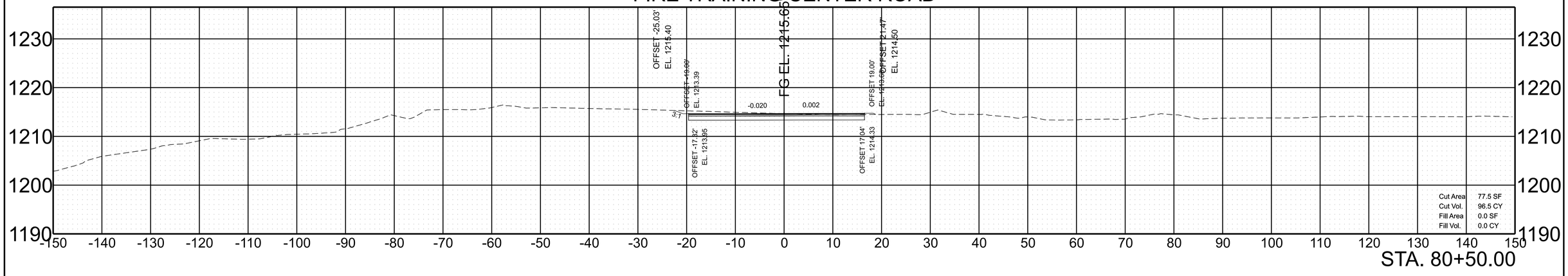
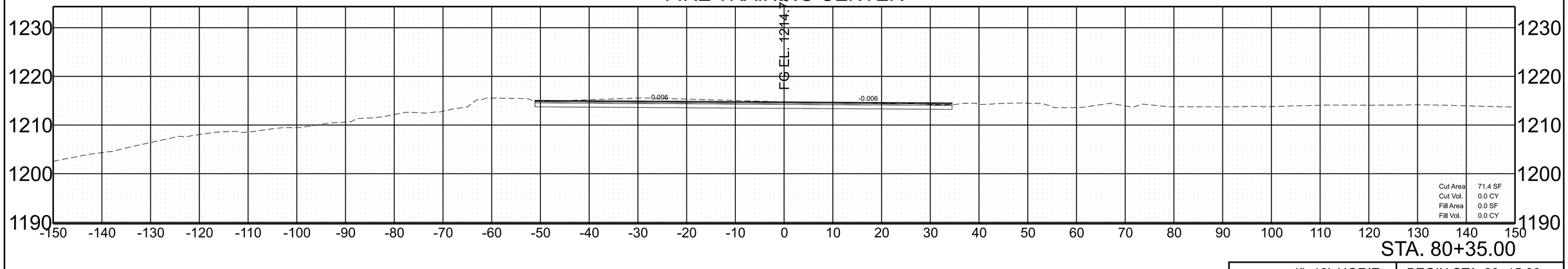
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	137
PIH	2026	82956-3594-04	139
PS&E	2026	82956-3594-04	139

FIRE TRAINING CENTER ROAD



LIMIT OF CONST.
STA. 80+35.00

FIRE TRAINING CENTER



SCALE:	1"=10' HORIZ.	BEGIN STA. 80+15.00
	1"=10' VERT.	END STA. 80+50.00

5/19/2026 4:07:36 PM
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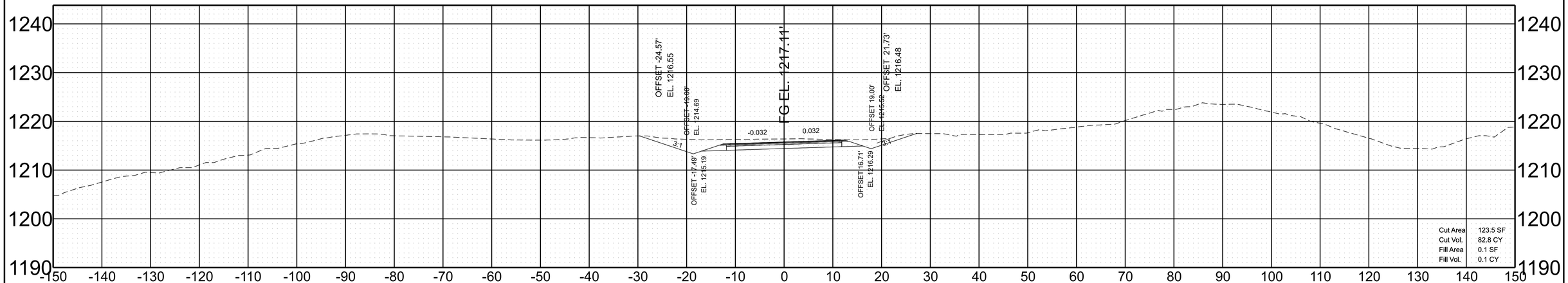
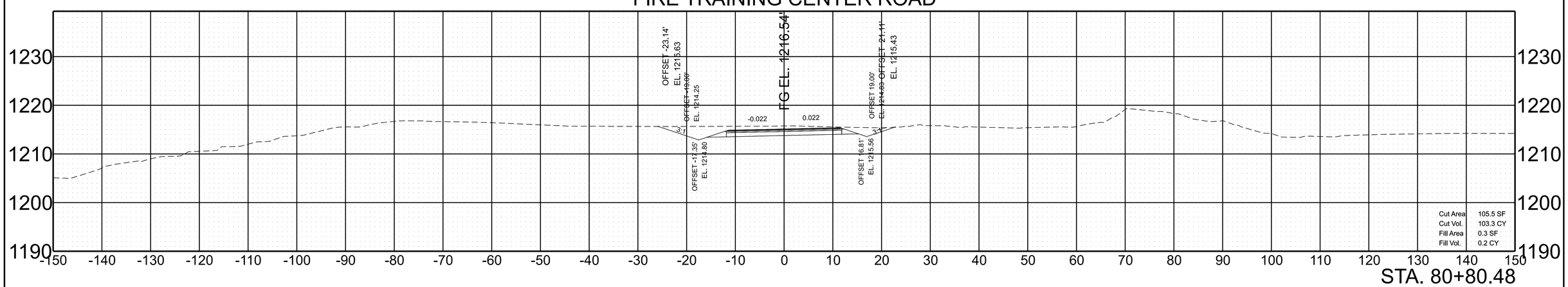
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	138
PIH	2026	82956-3594-04	140
PS&E	2026	82956-3594-04	140

FIRE TRAINING CENTER ROAD



STA. 81+00.00

FIRE TRAINING CENTER ROAD



STA. 80+80.48

SCALE:		
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	1"=10' VERT.	END STA. 81+00.00

5/19/2026 4:07:39 PM
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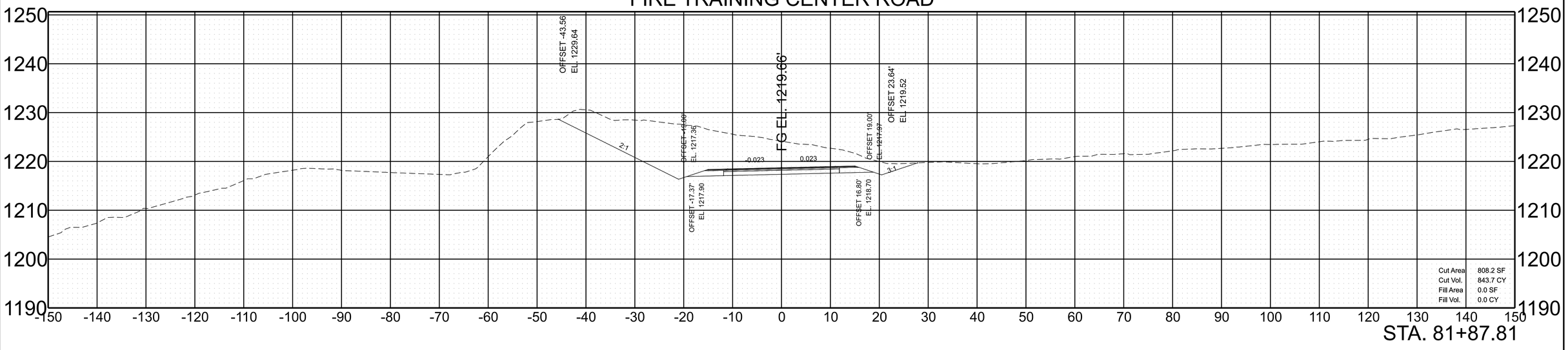
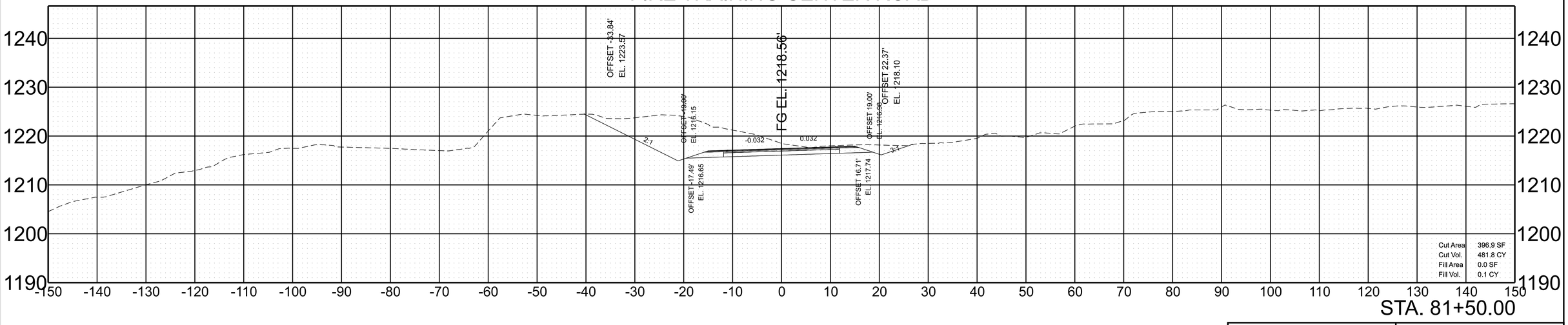
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	139
PIH	2026	82956-3594-04	141
PS&E	2026	82956-3594-04	141

FIRE TRAINING CENTER ROAD



STA. 81+87.81

FIRE TRAINING CENTER ROAD



STA. 81+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 81+50.00
	1"=10' VERT.	END STA. 81+87.81

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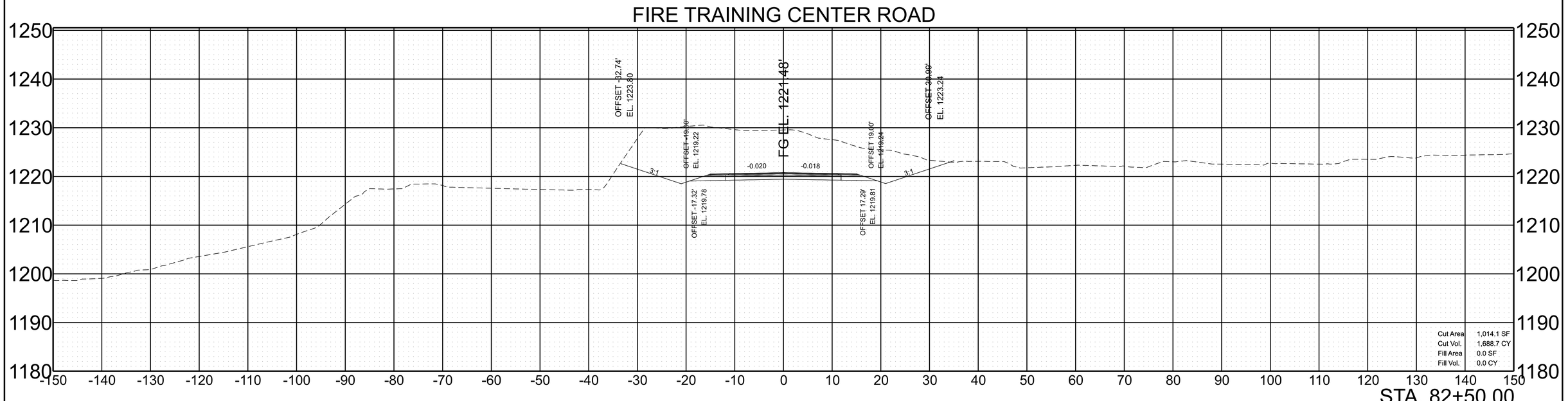
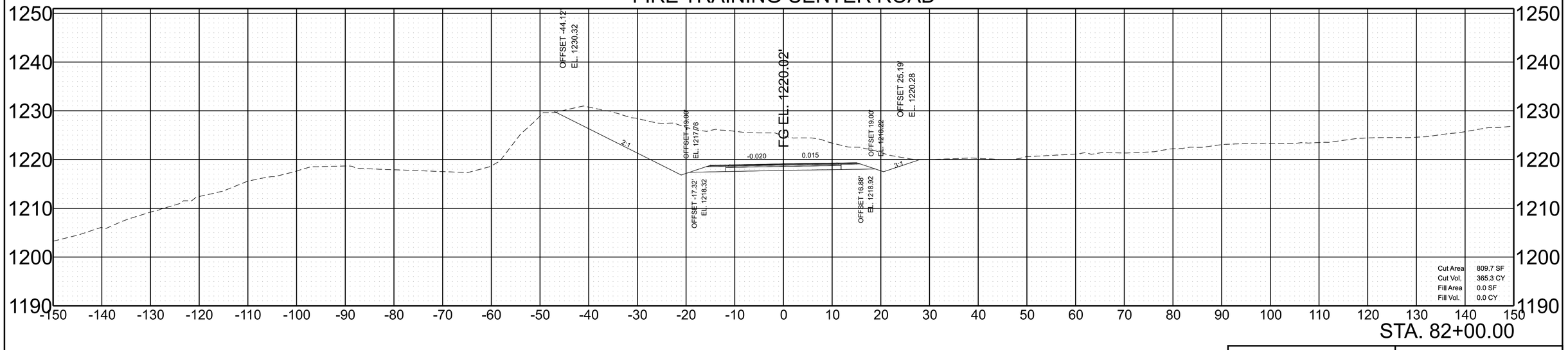
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	140
PIH	2026	82956-3594-04	142
PS&E	2026	82956-3594-04	142





SCALE:	1"=10' HORIZ.	BEGIN STA. 82+00.00
	1"=10' VERT.	END STA. 82+50.00

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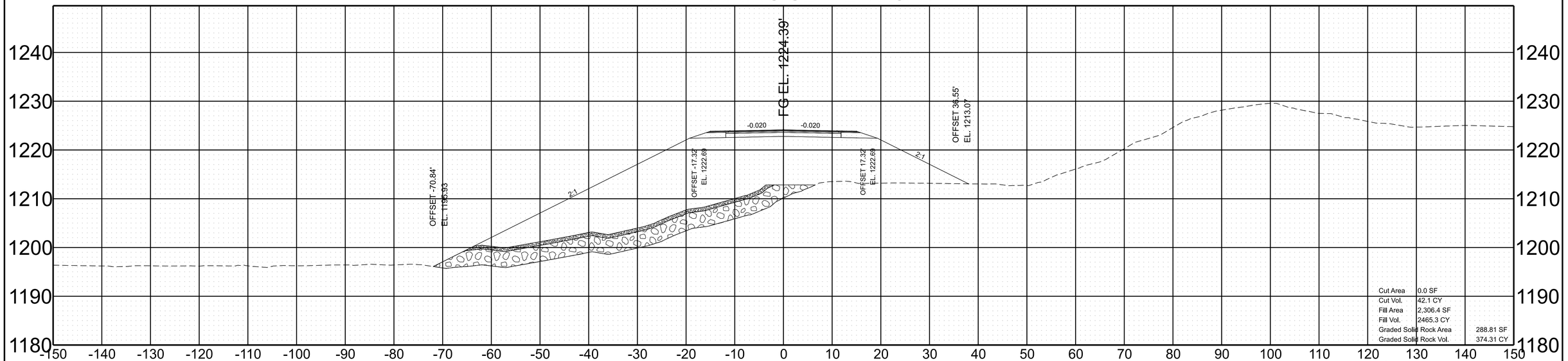
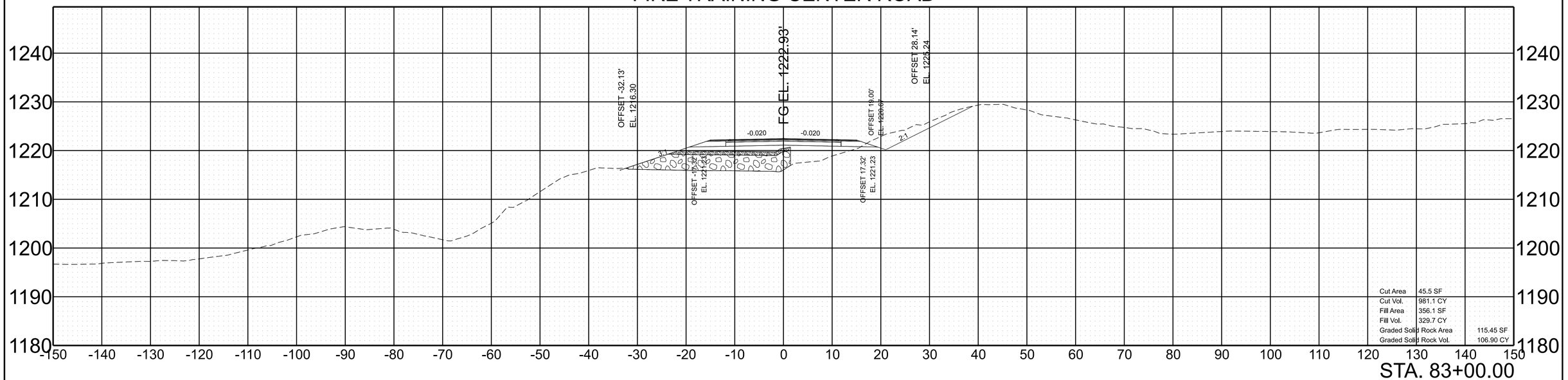
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	141
PIH	2026	82956-3594-04	143
PS&E	2026	82956-3594-04	143

FIRE TRAINING CENTER ROAD



STA. 83+50.00

FIRE TRAINING CENTER ROAD



STA. 83+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 83+00.00
	1"=10' VERT.	END STA. 83+50.00

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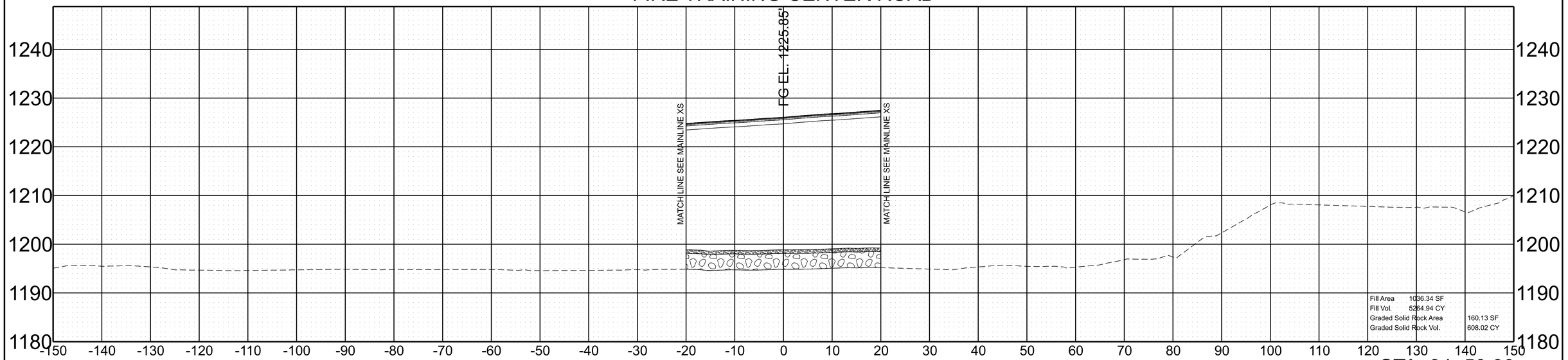
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	142
PIH	2026	82956-3594-04	144
PS&E	2026	82956-3594-04	144

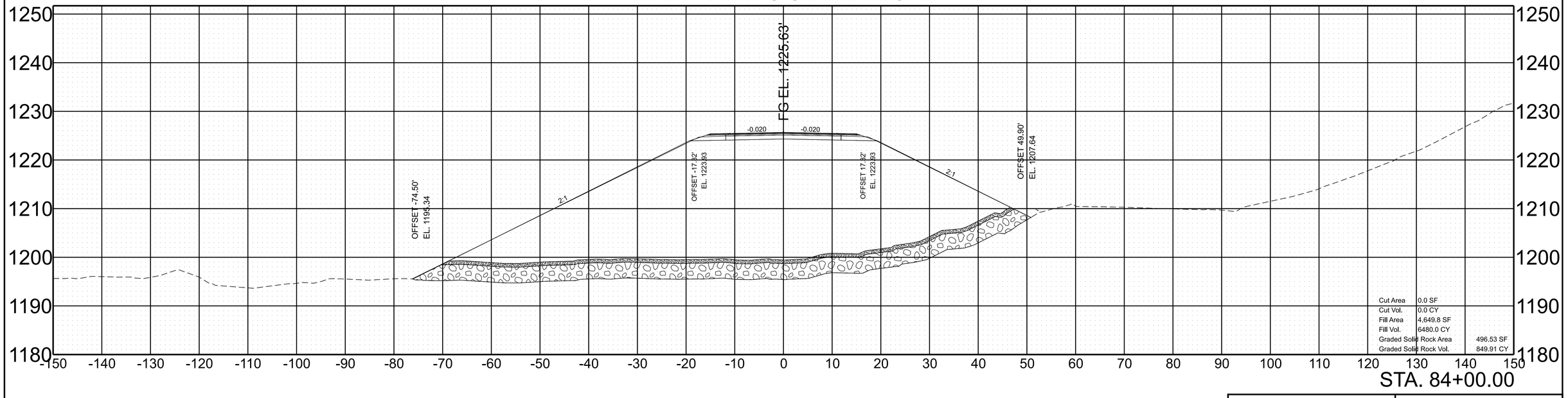
REV. 07-07-26:
REVISED EARTHWORK QUANTITY
FOR STA. 84+50.00

FIRE TRAINING CENTER ROAD



STA. 84+50.00

FIRE TRAINING CENTER ROAD



STA. 84+00.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 84+00.00 END STA. 84+50.00

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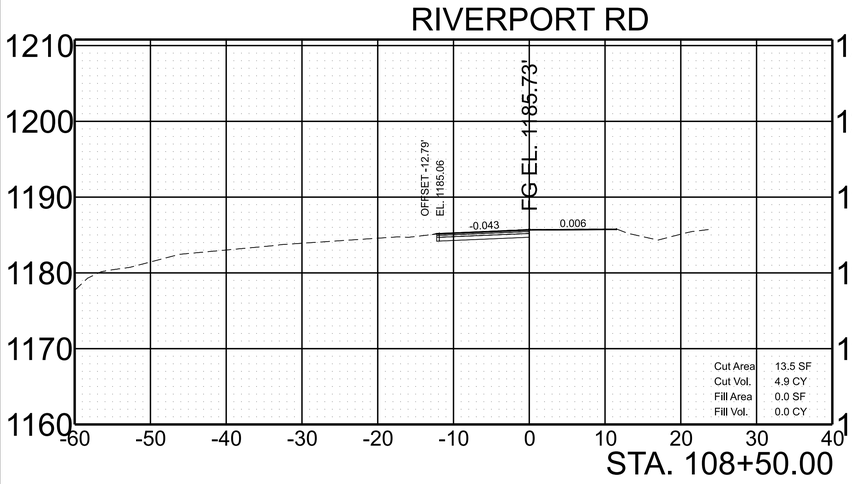
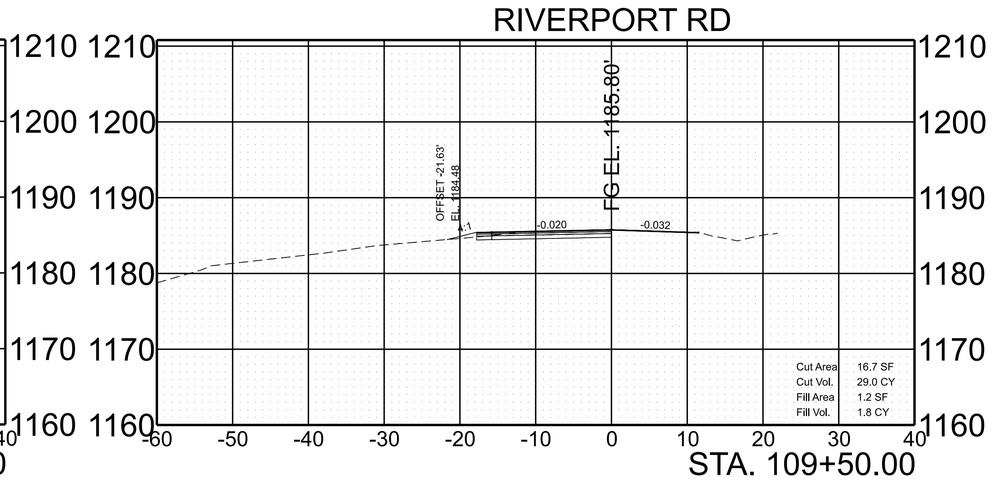
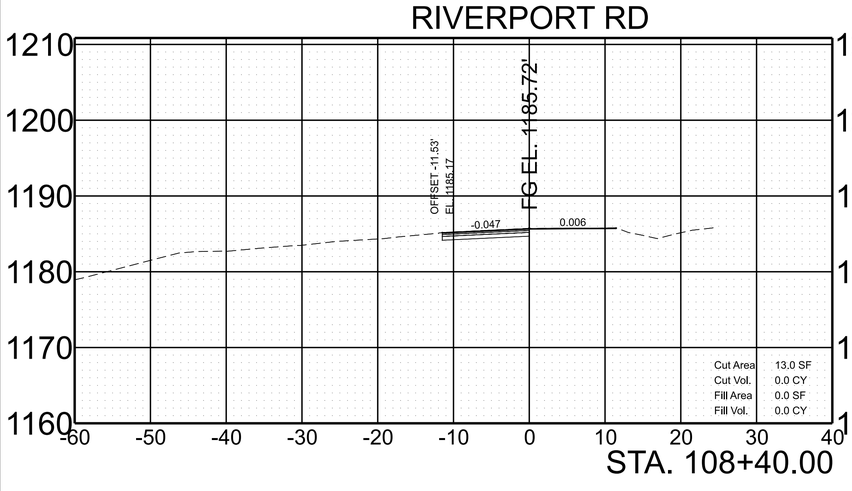
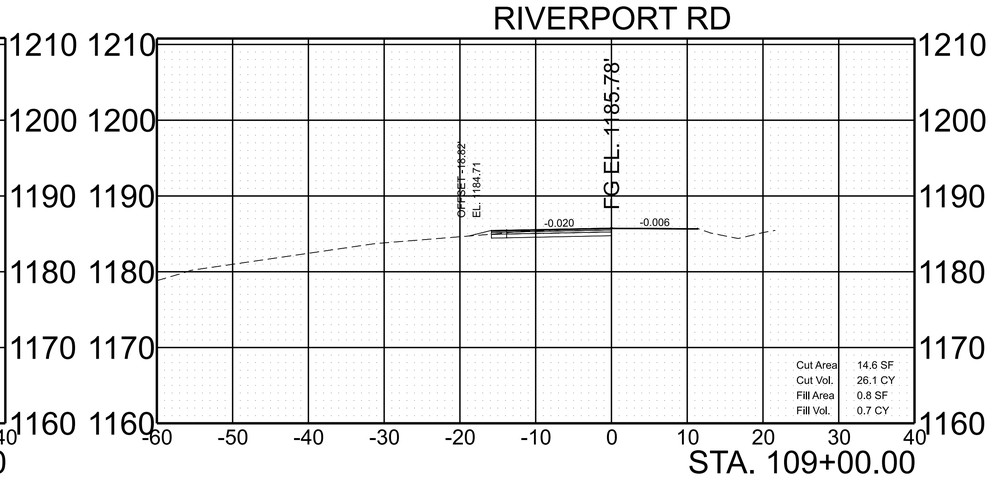
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	143
PIH	2026	82956-3594-04	145
PS&E	2026	82956-3594-04	145

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:		
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	1"=10' VERT.	END STA. 109+50.00

6/30/2026 3:57:31 PM
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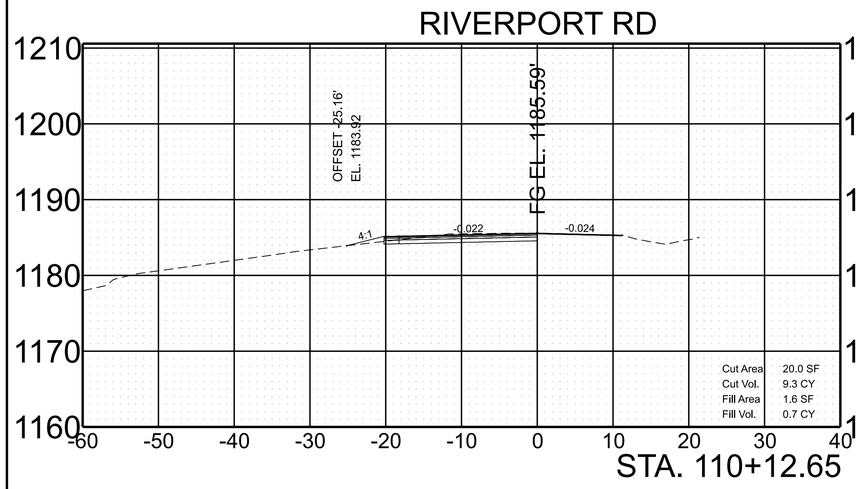
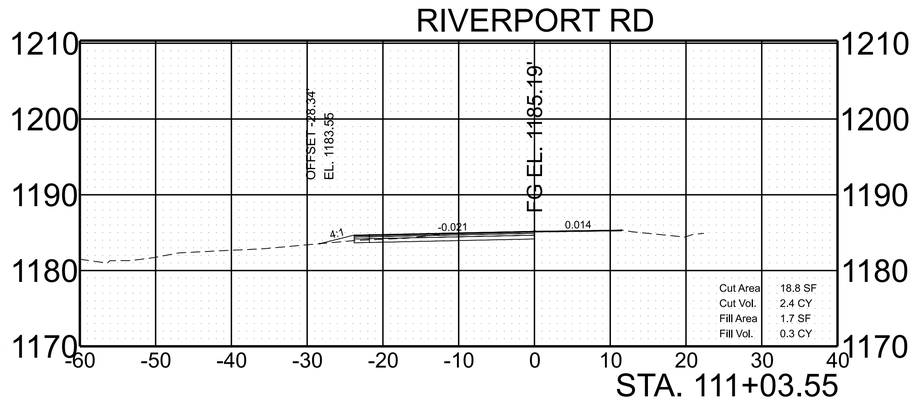
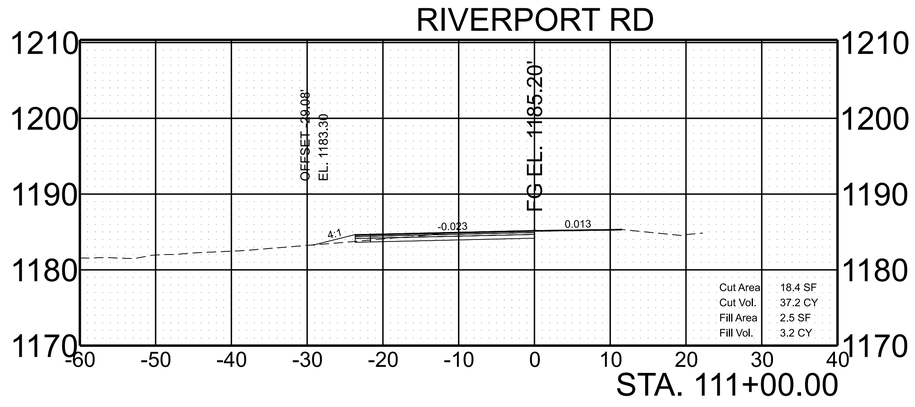
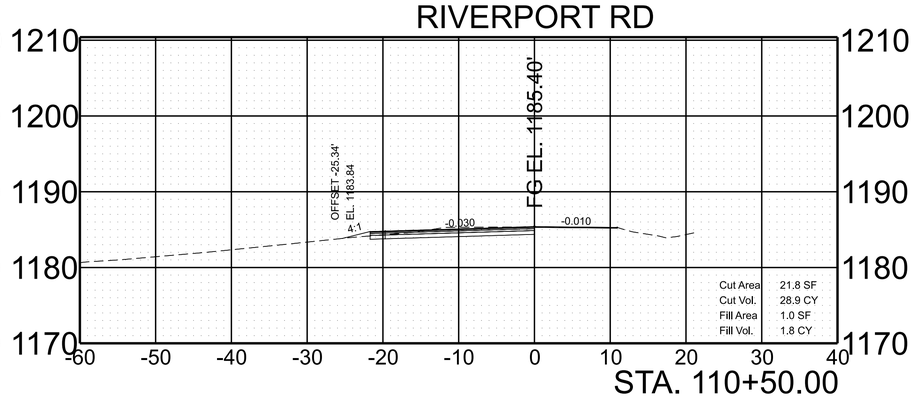
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	144
PIH	2026	82956-3594-04	146
PS&E	2026	82956-3594-04	146

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 110+00.00
	1"=10' VERT.	END STA. 111+03.55

6/30/2026 3:34:03 PM
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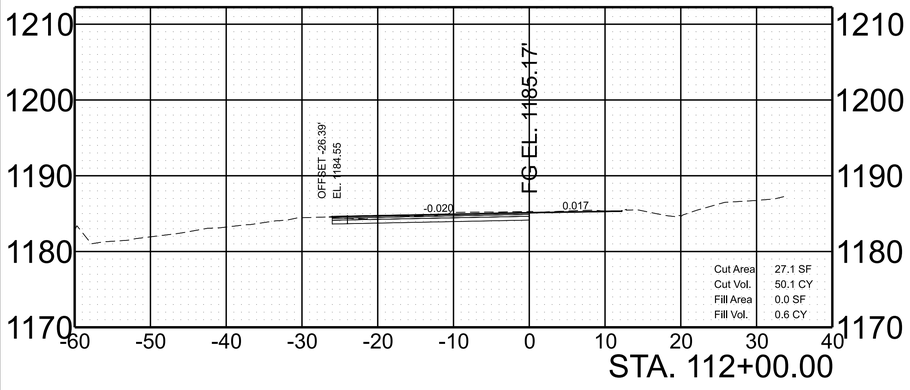
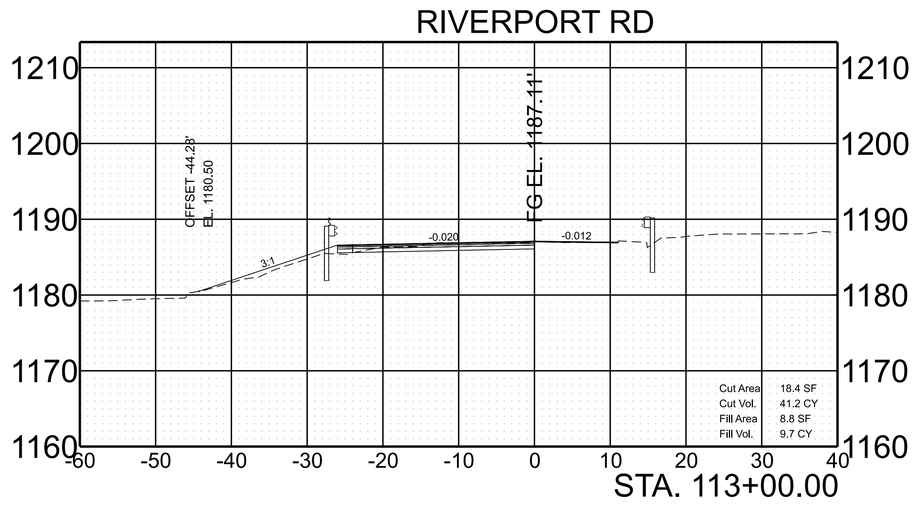
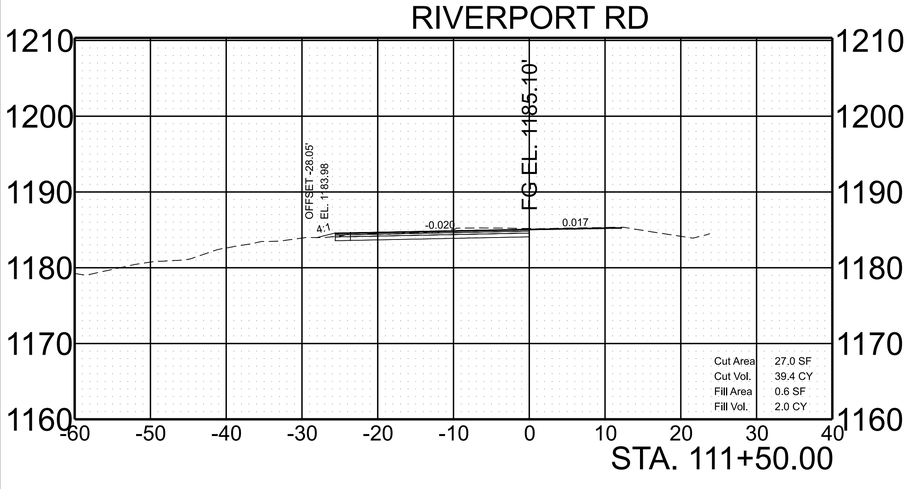
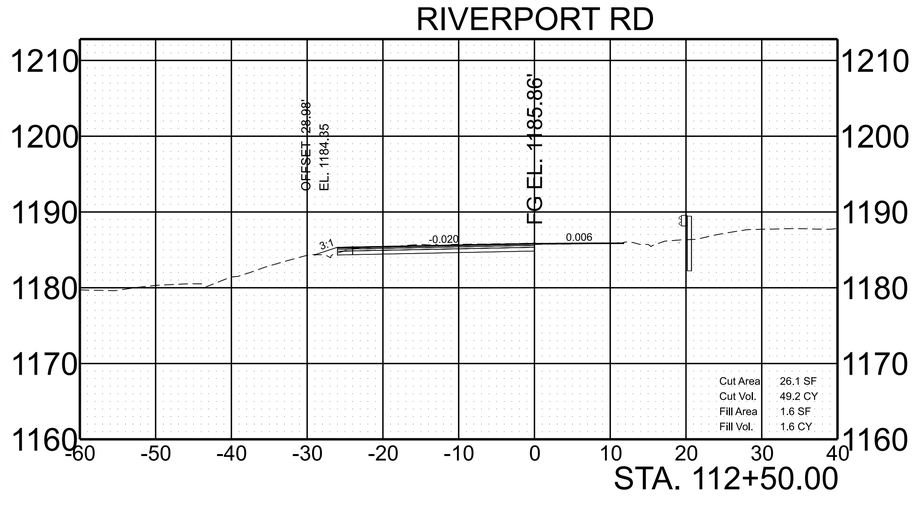
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	145
PIH	2026	82956-3594-04	147
PS&E	2026	82956-3594-04	147

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 111+50.00
	1"=10' VERT.	END STA. 113+00.00

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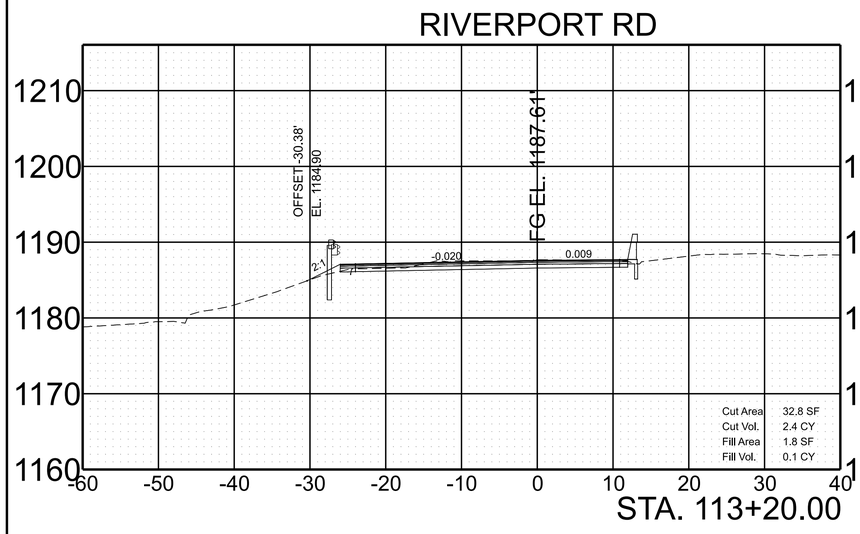
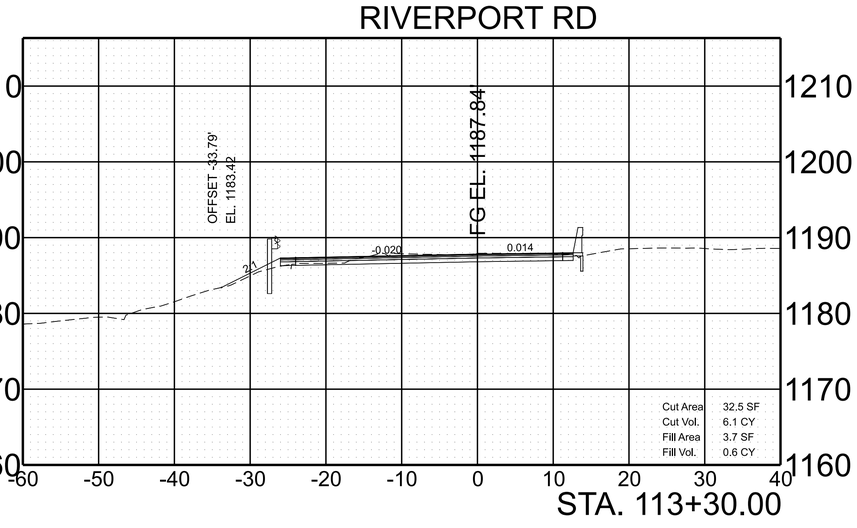
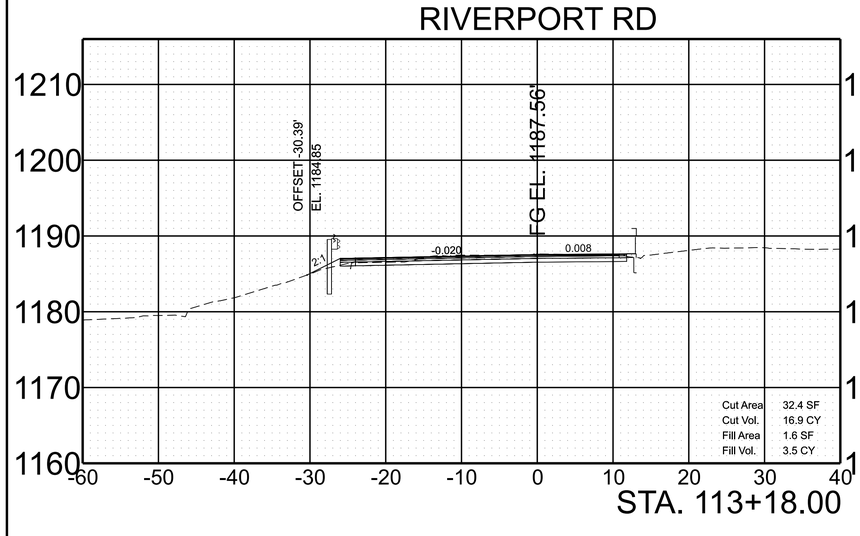
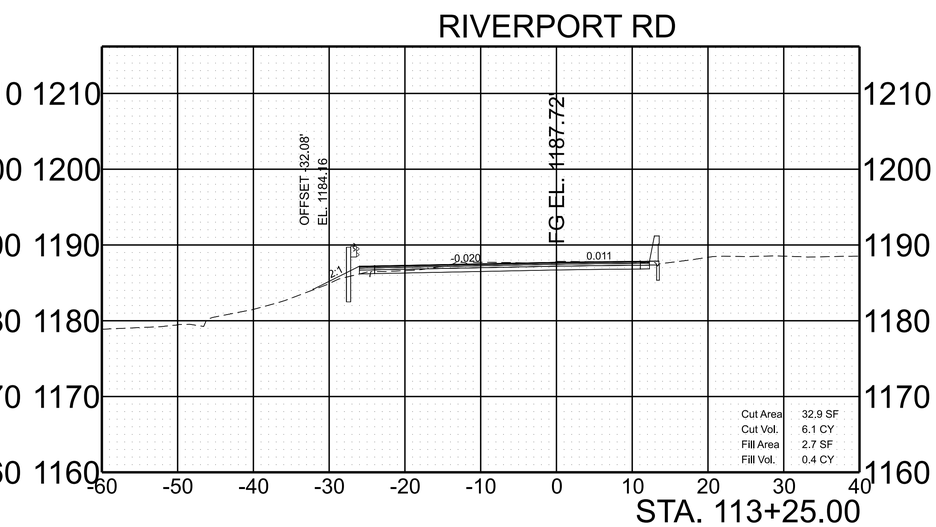
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	146
PIH	2026	82956-3594-04	148
PS&E	2026	82956-3594-04	148

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 113+18.00
	1"=10' VERT.	END STA. 113+30.00

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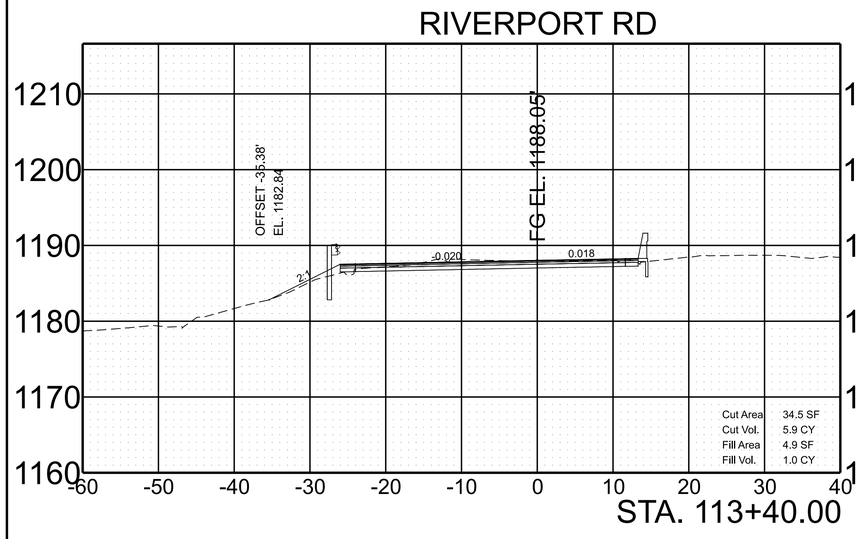
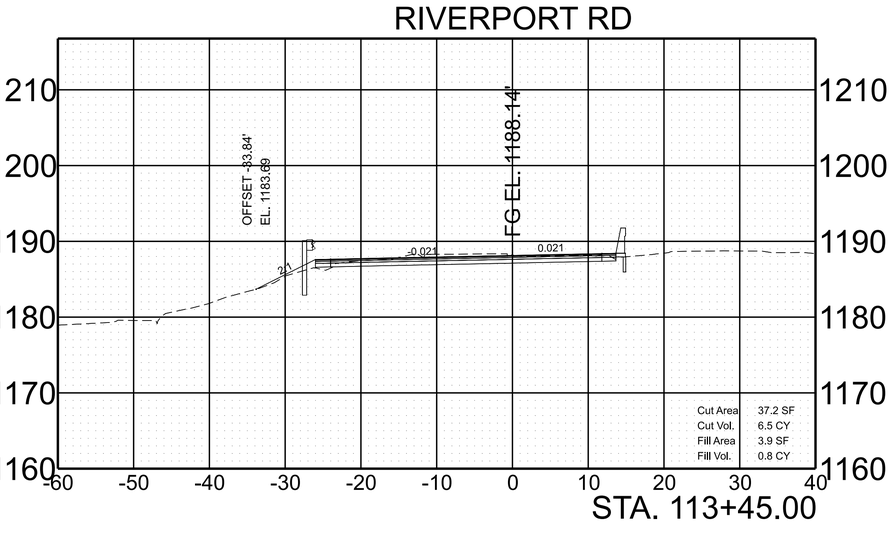
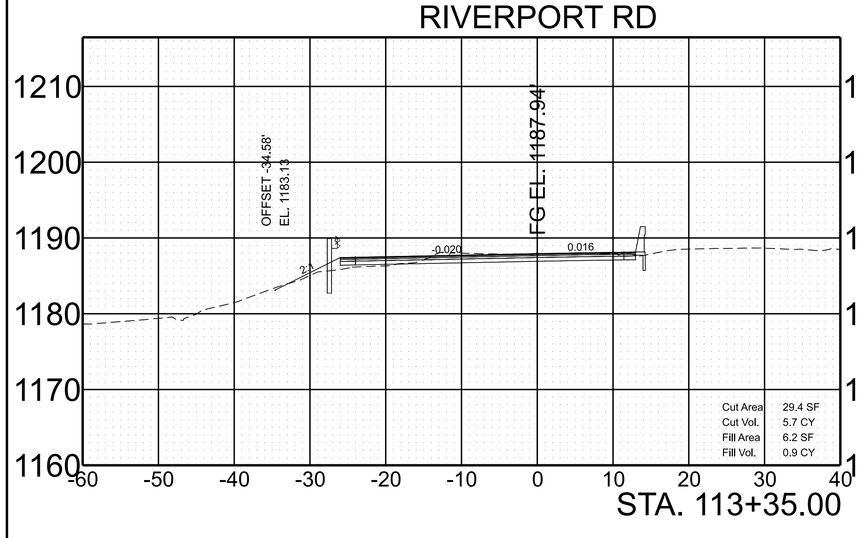
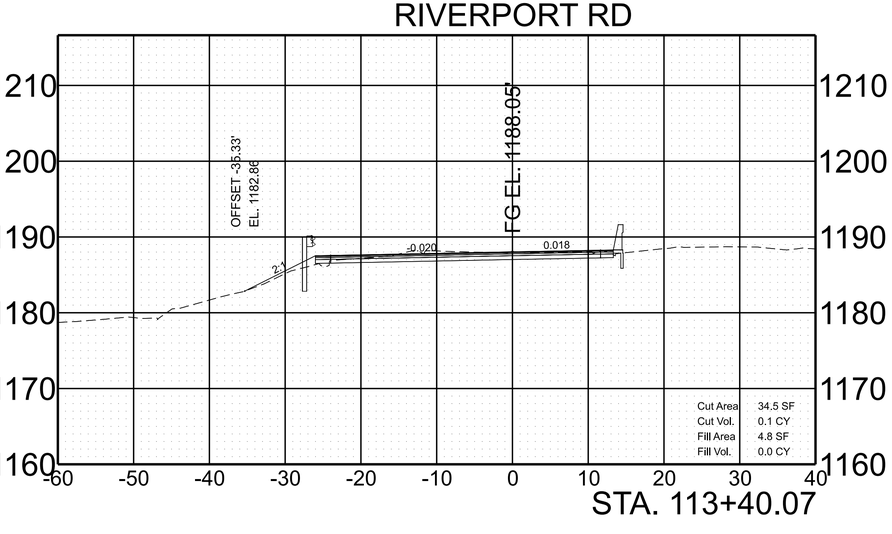
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	147
PIH	2026	82956-3594-04	149
PS&E	2026	82956-3594-04	149

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 113+35.00 END STA. 113+45.00

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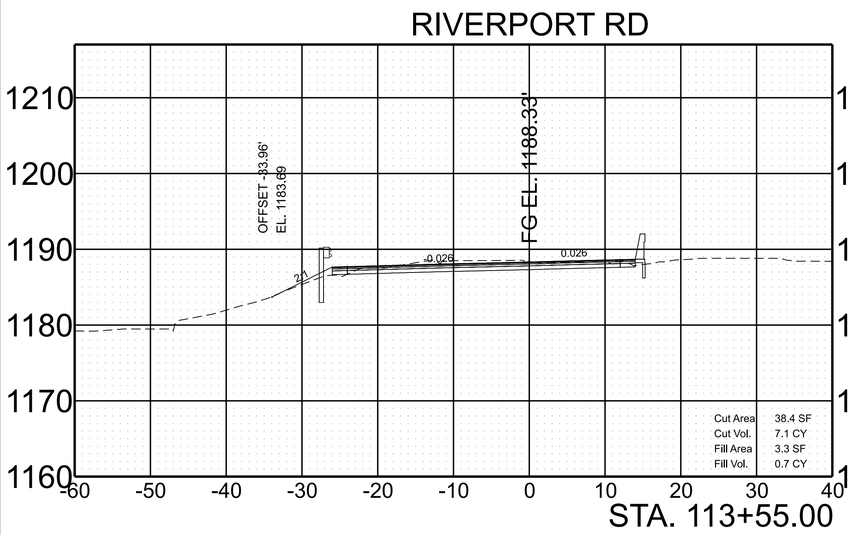
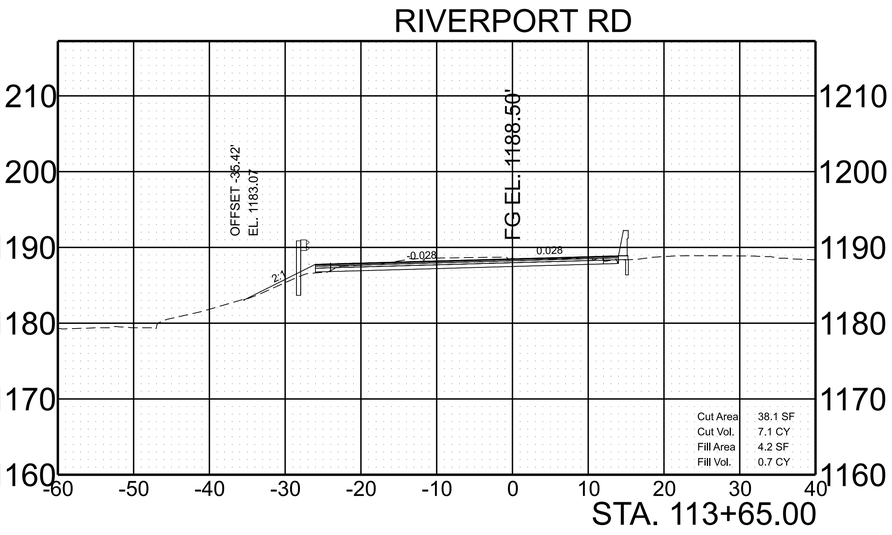
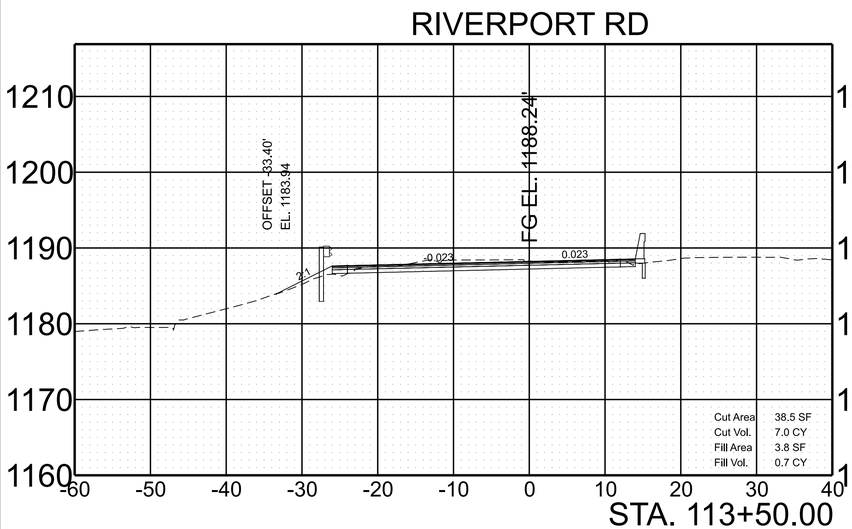
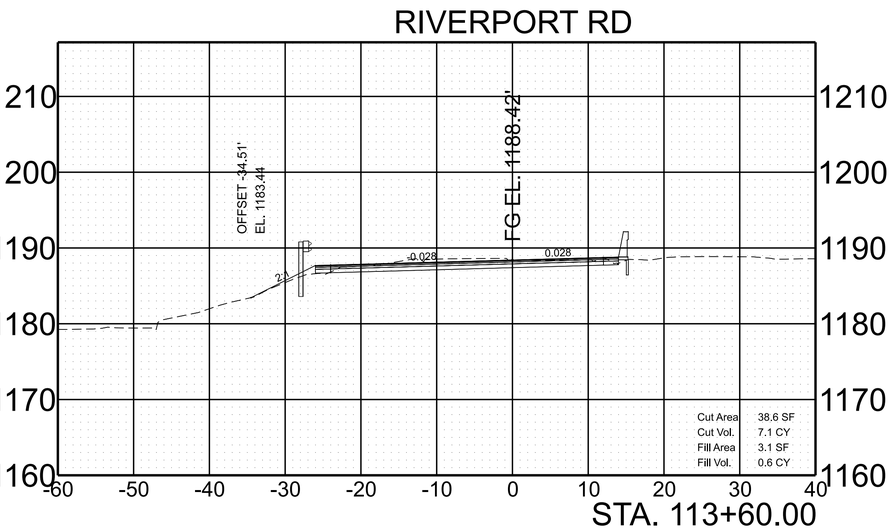
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	148
PIH	2026	82956-3594-04	150
PS&E	2026	82956-3594-04	150

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 113+50.00
	1"=10' VERT.	END STA. 113+65.00

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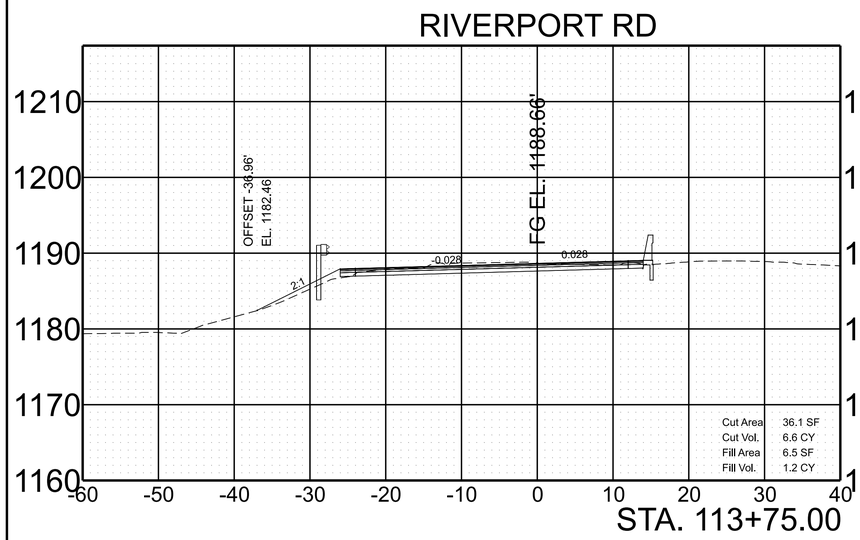
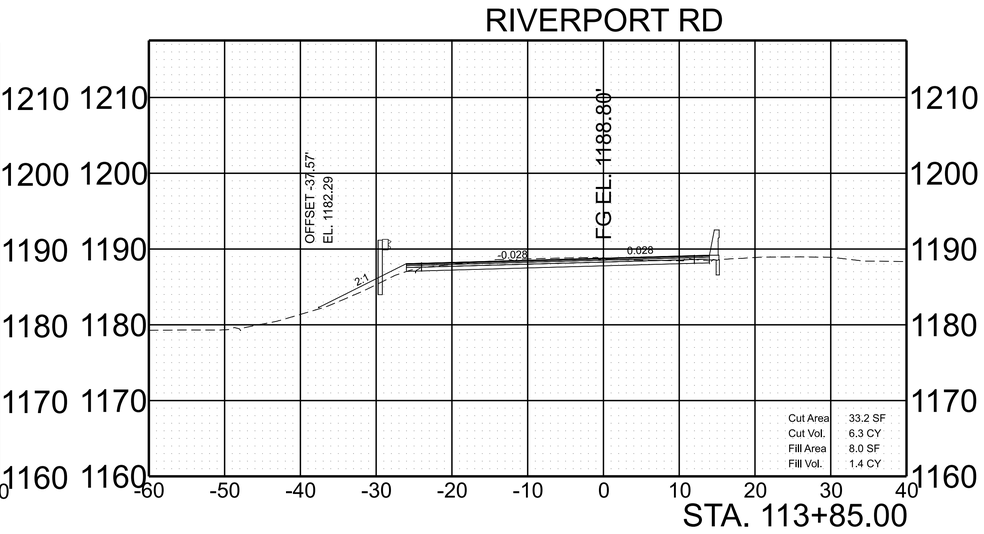
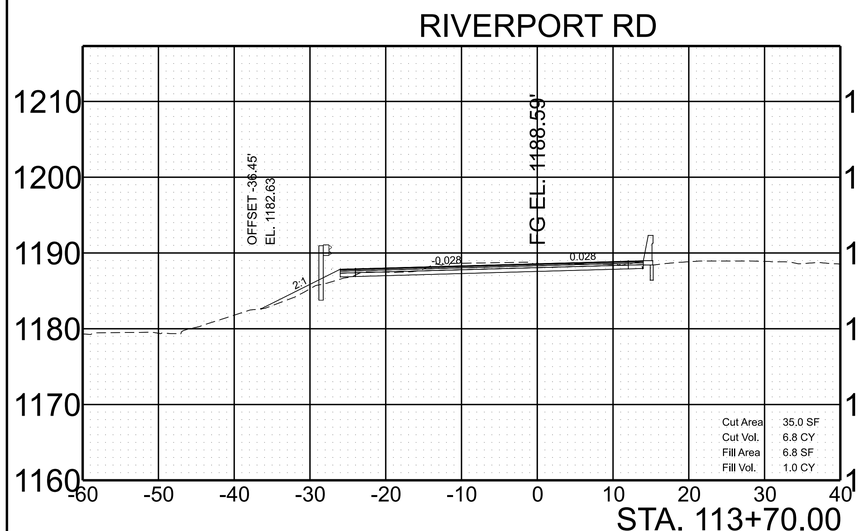
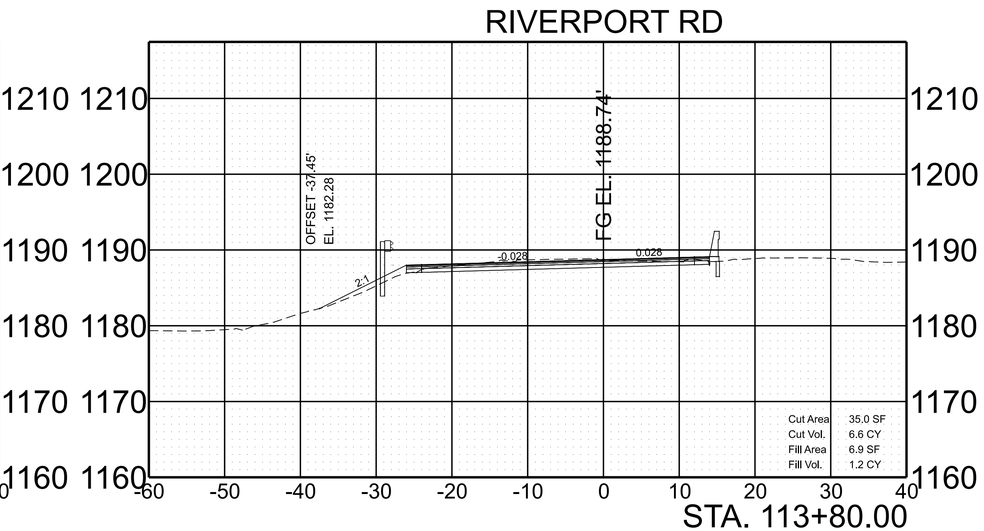
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	149
PIH	2026	82956-3594-04	151
PS&E	2026	82956-3594-04	151

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.







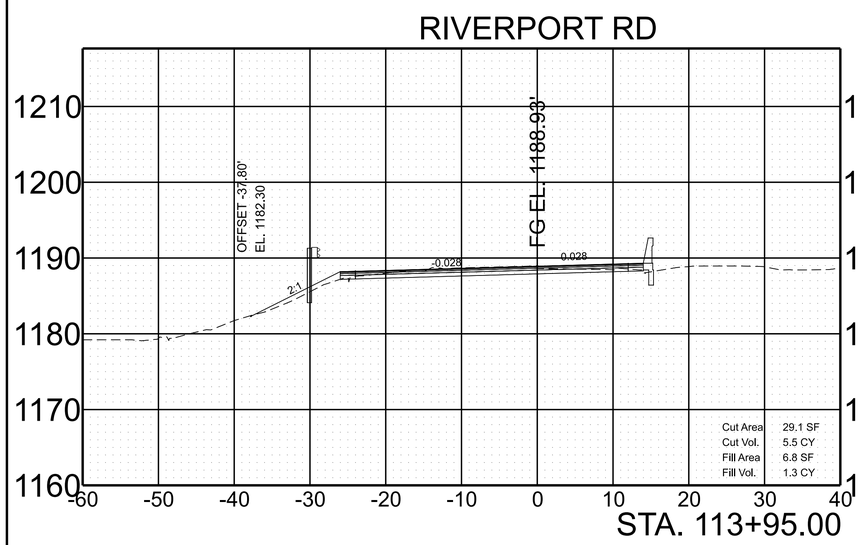


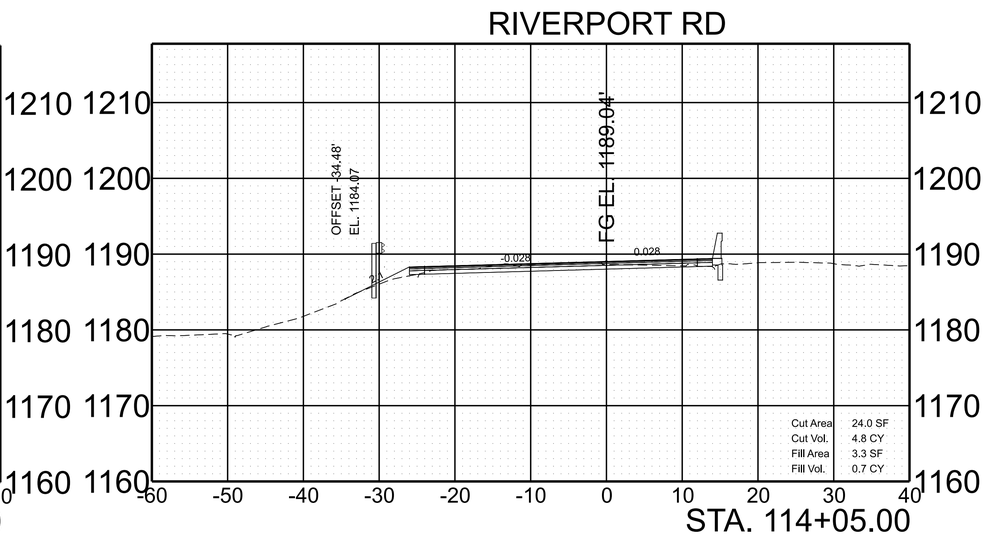
SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 113+70.00 END STA. 113+85.00

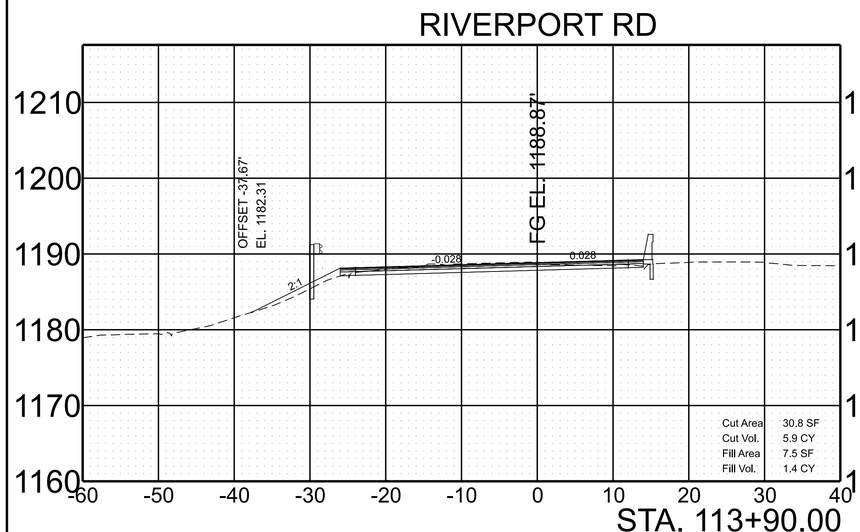
6/30/2026 3:34:22 PM
F:\37\37743\37743\02\04_CAD\TRNS\BASEDRAWINGS\PLOT\82APLN-SHT-XS-SIDEROAD-RIVERPORTROAD.DGN

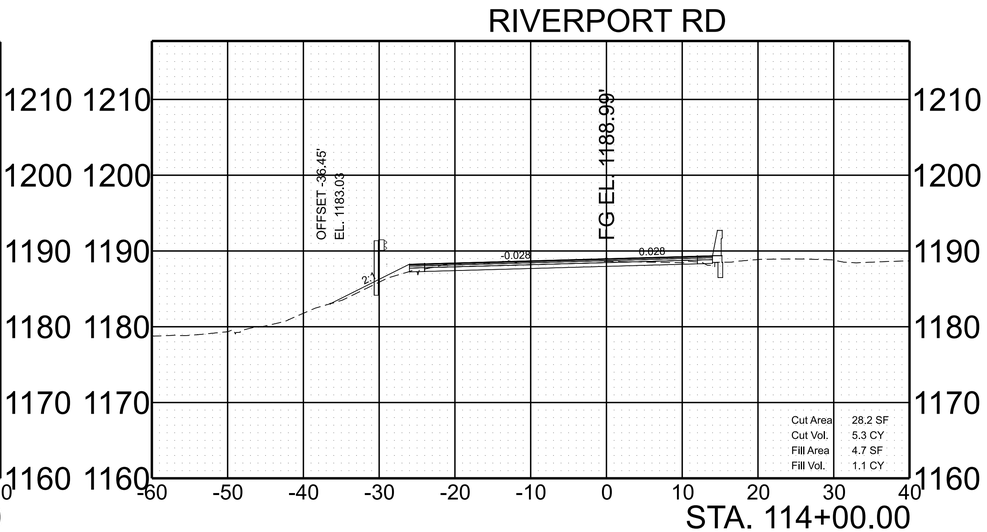
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	150
PIH	2026	82956-3594-04	152
PS&E	2026	82956-3594-04	152

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 113+90.00 END STA. 114+05.00

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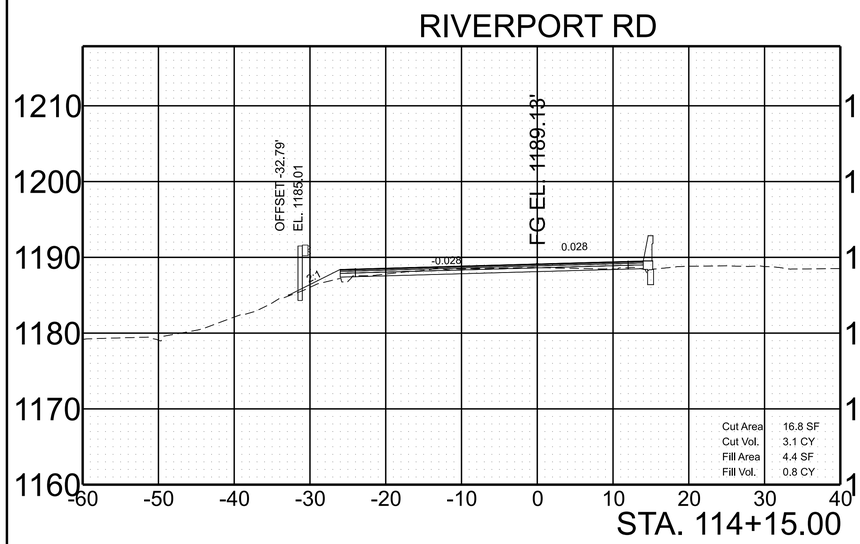
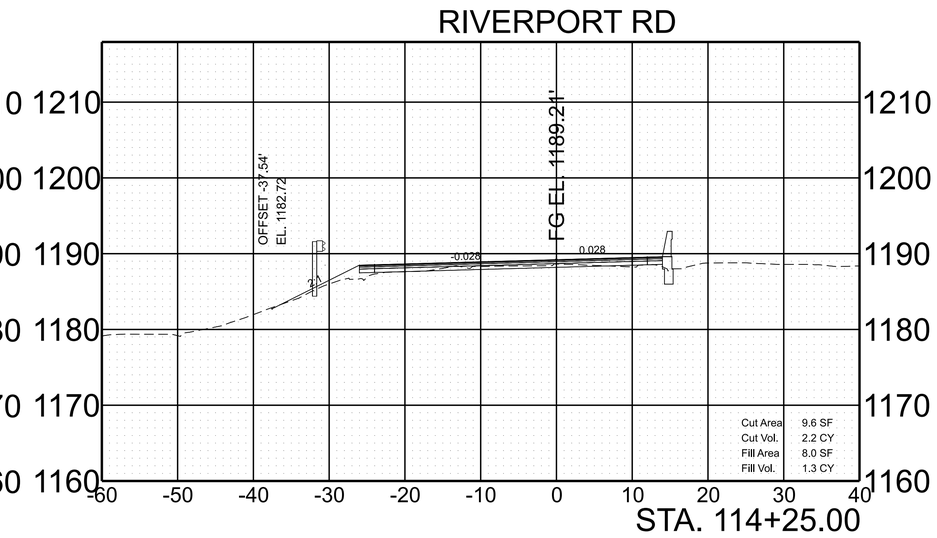
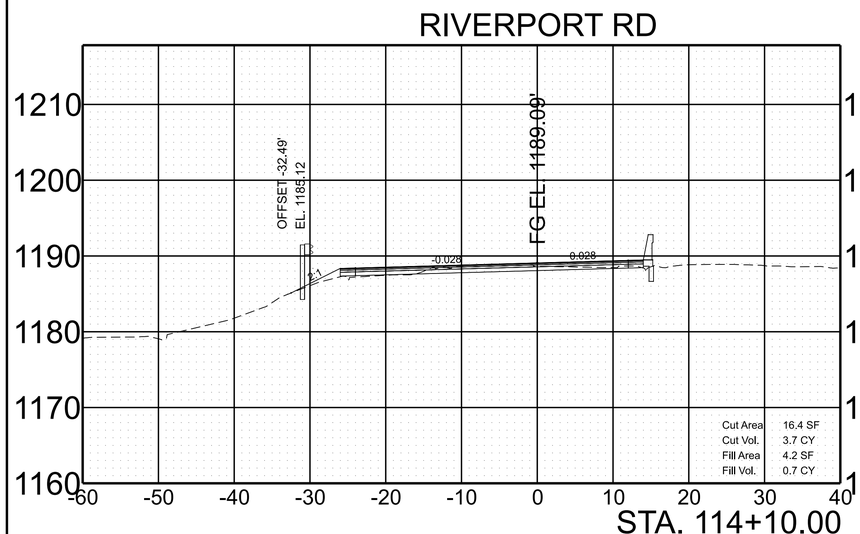
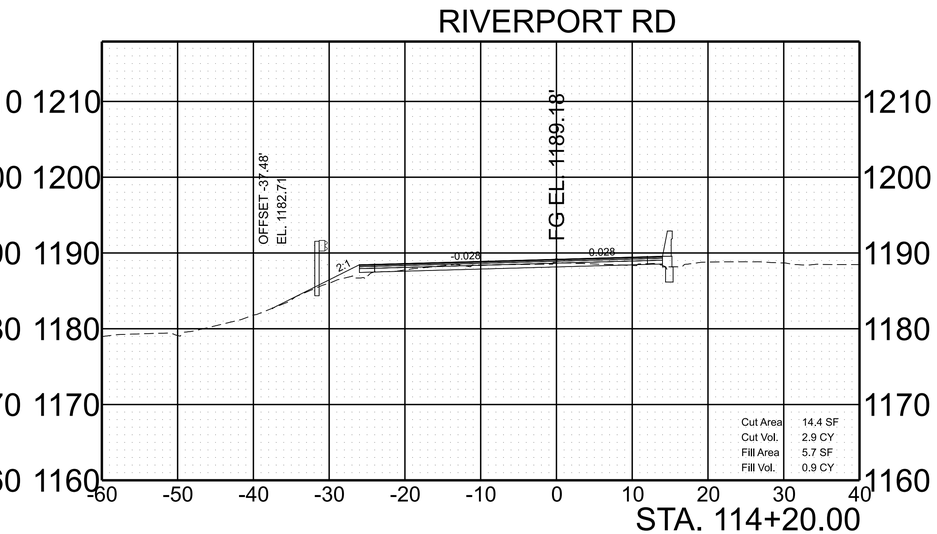
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	151
PIH	2026	82956-3594-04	153
PS&E	2026	82956-3594-04	153

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 114+10.00 END STA. 114+25.00

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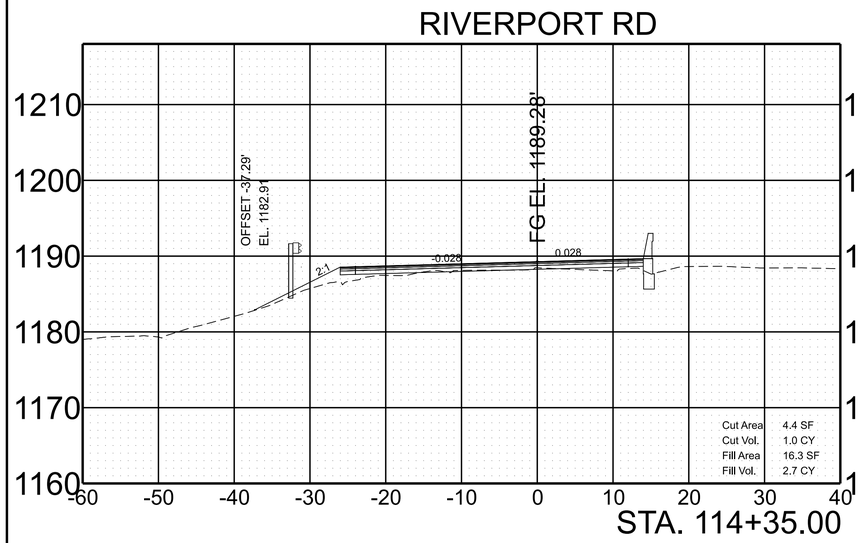
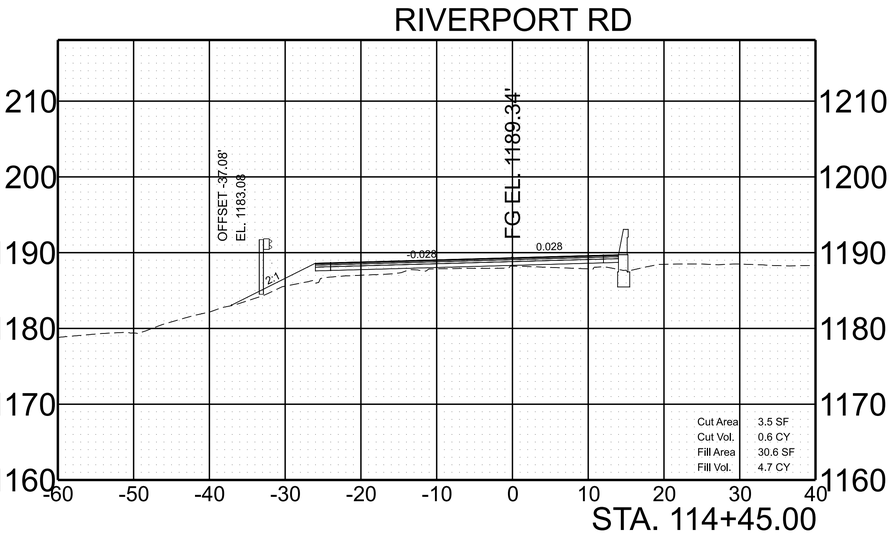
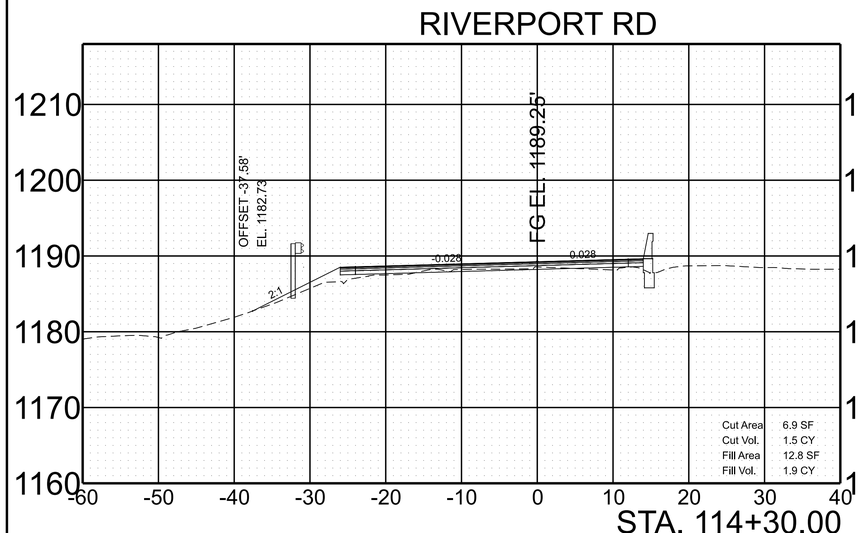
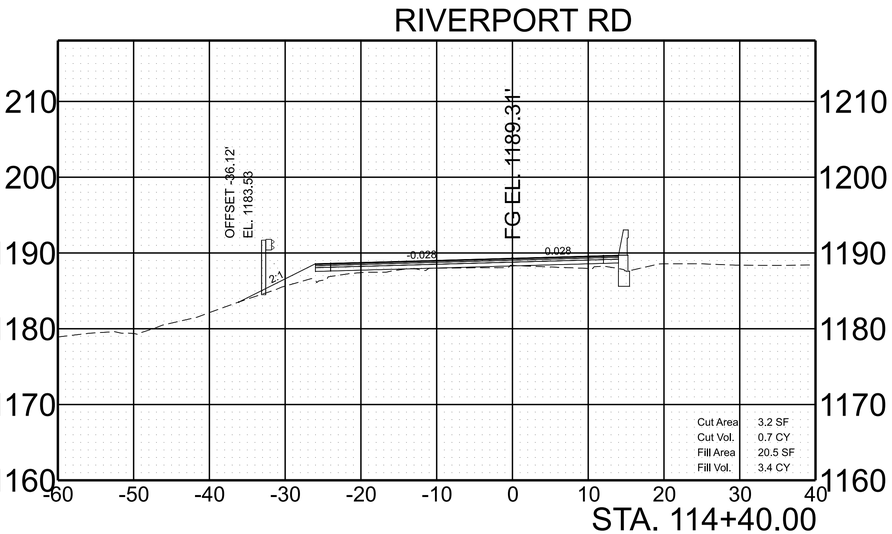
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	152
PIH	2026	82956-3594-04	154
PS&E	2026	82956-3594-04	154

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 114+30.00 END STA. 114+45.00

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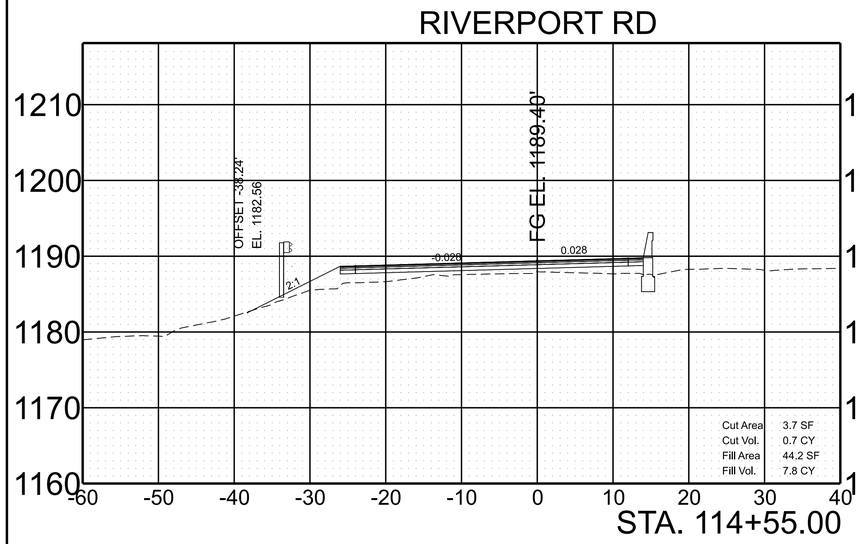
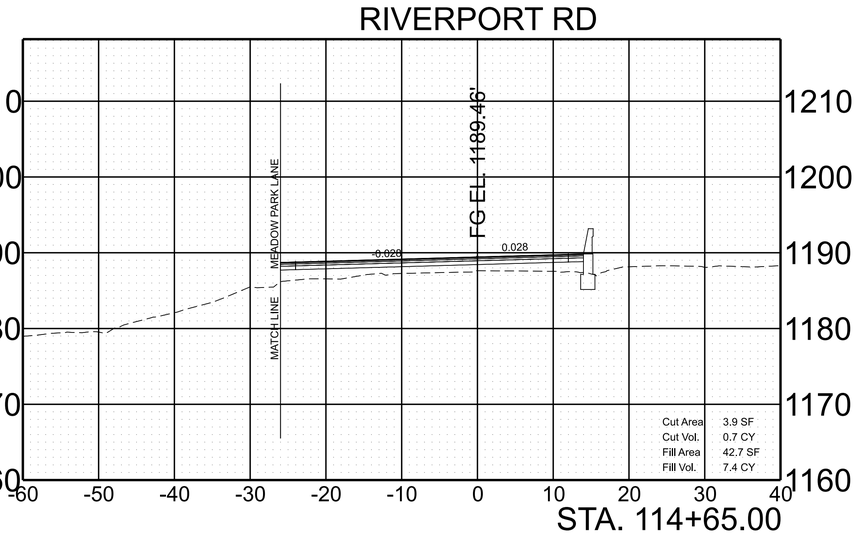
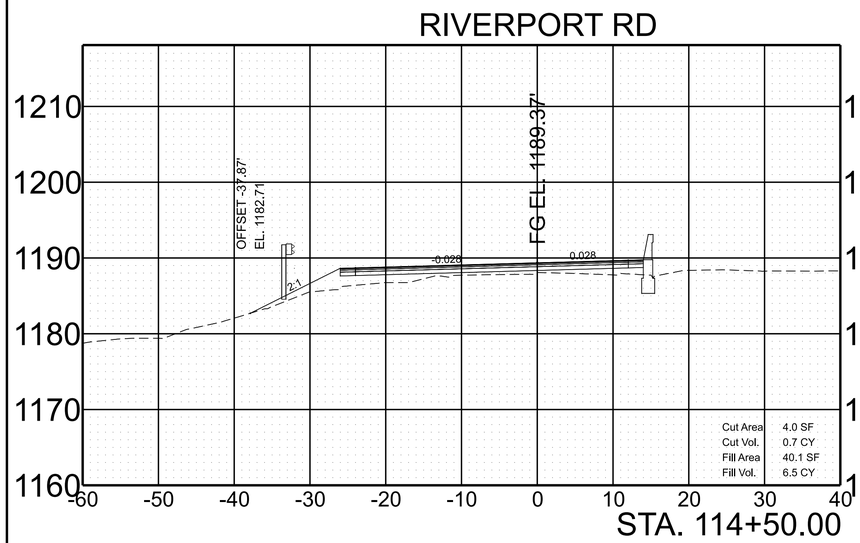
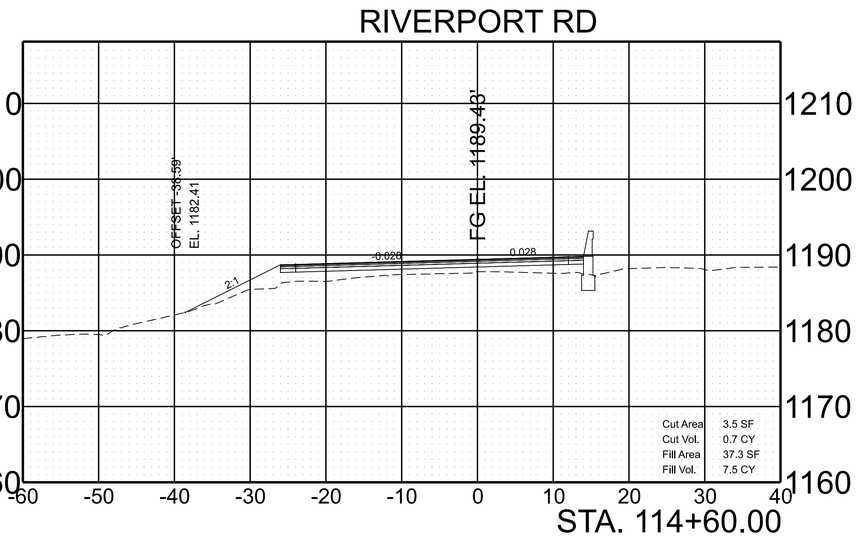
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	153
PIH	2026	82956-3594-04	155
PS&E	2026	82956-3594-04	155

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 114+50.00 END STA. 114+65.00

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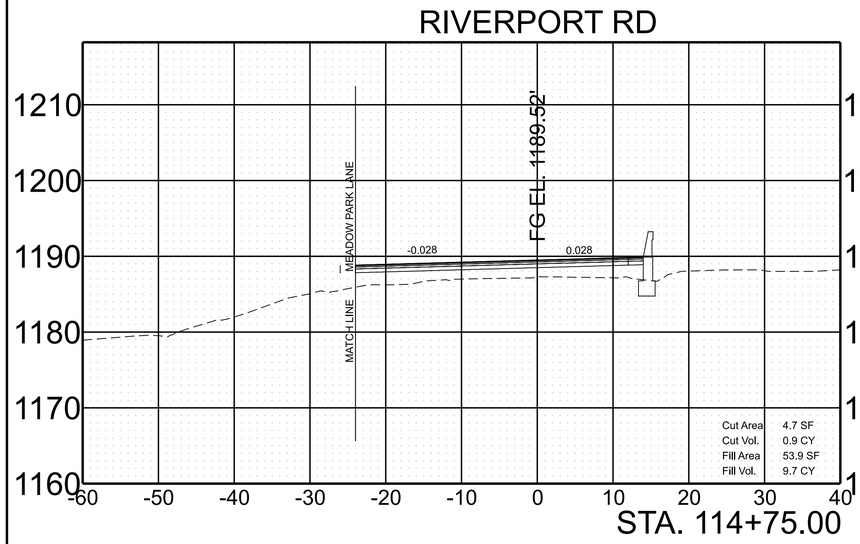
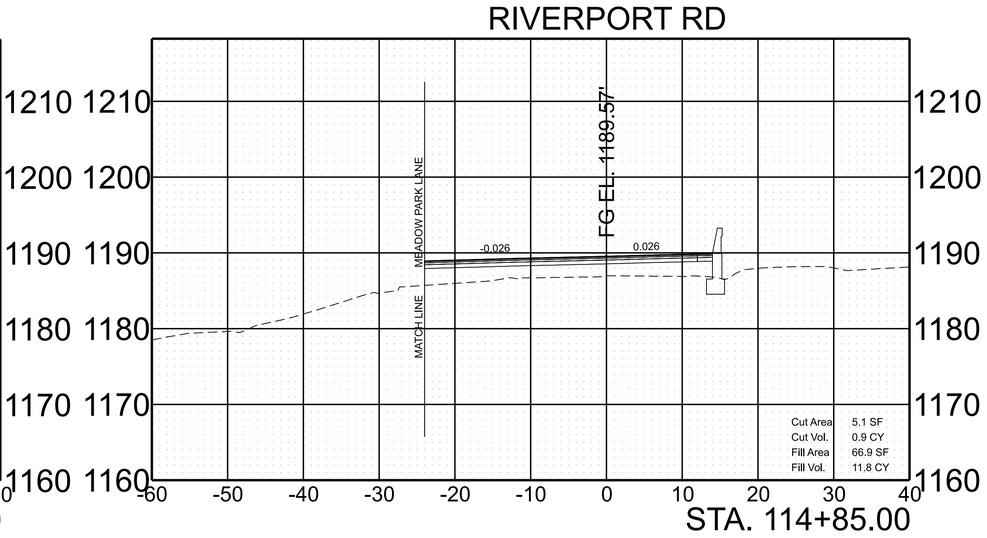
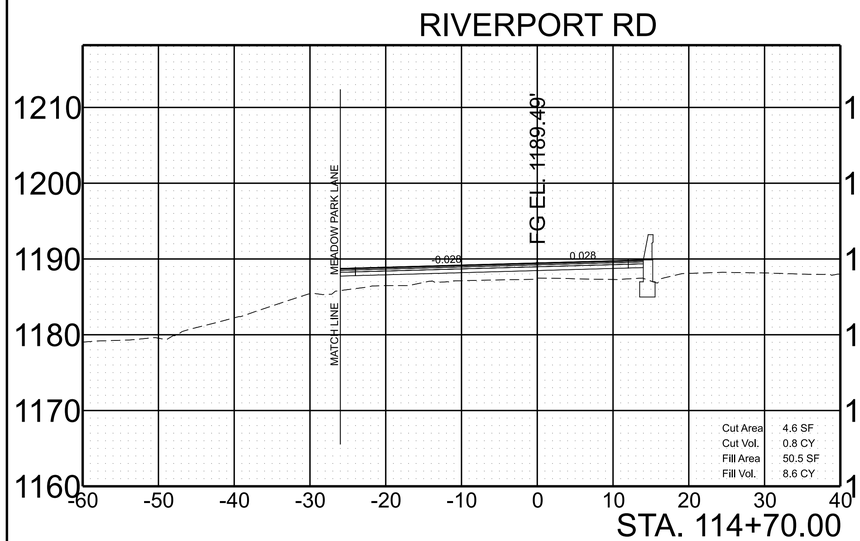
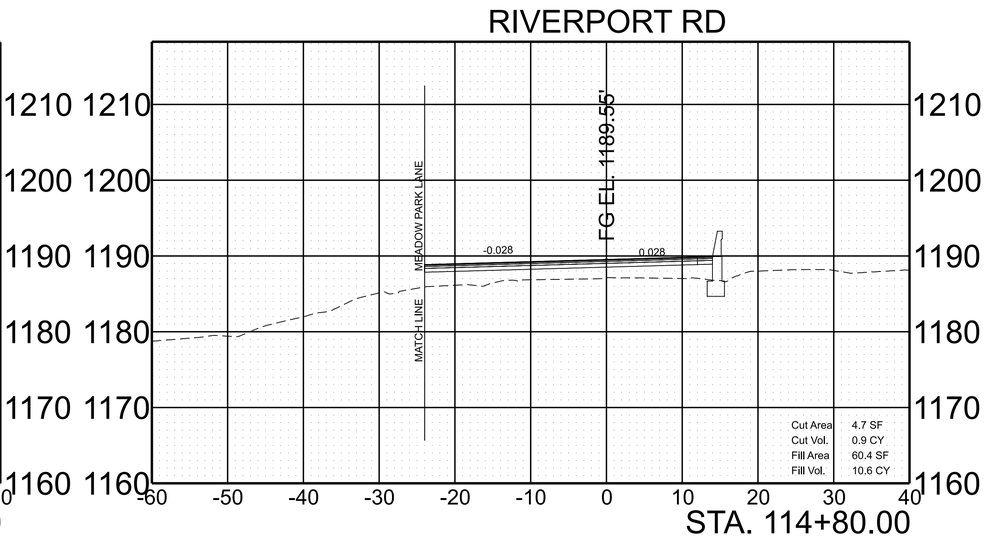
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	154
PIH	2026	82956-3594-04	156
PS&E	2026	82956-3594-04	156

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 114+70.00
	1"=10' VERT.	END STA. 114+85.00

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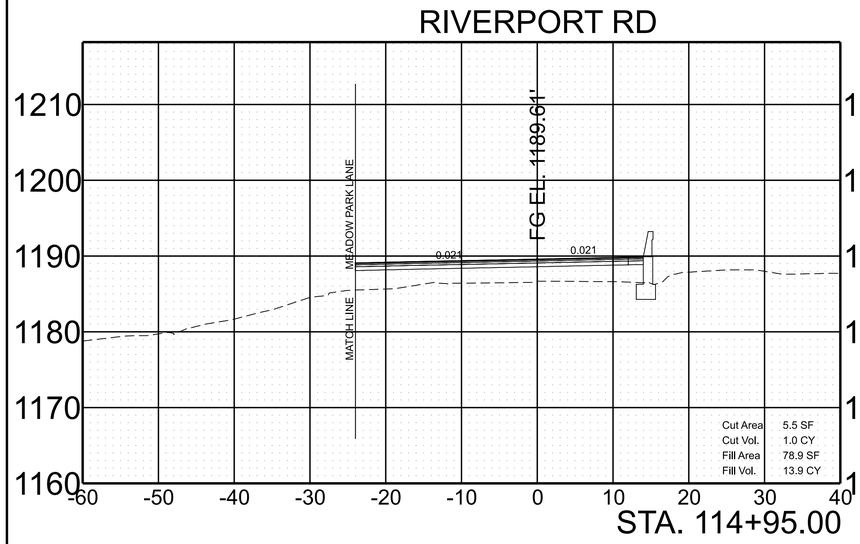
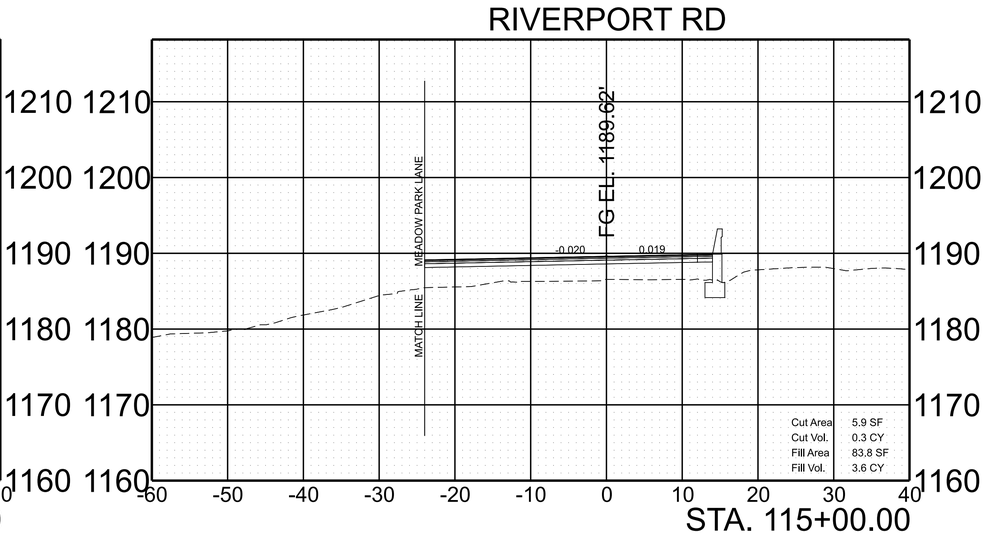
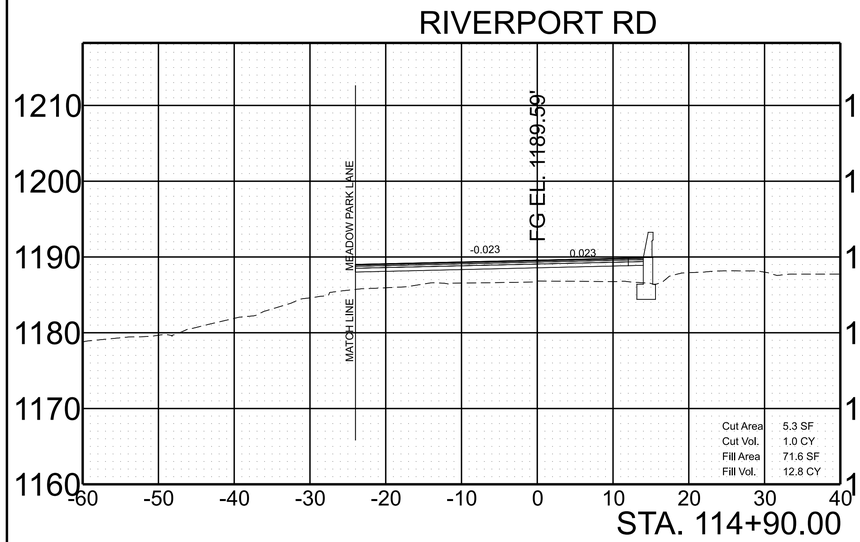
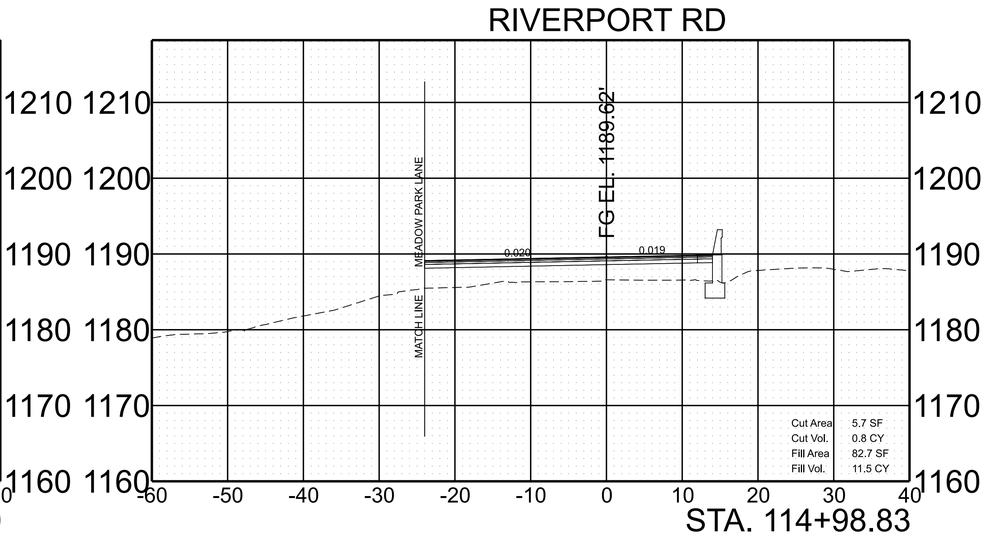
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	155
PIH	2026	82956-3594-04	157
PS&E	2026	82956-3594-04	157

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 114+90.00
	1"=10' VERT.	END STA. 115+00.00

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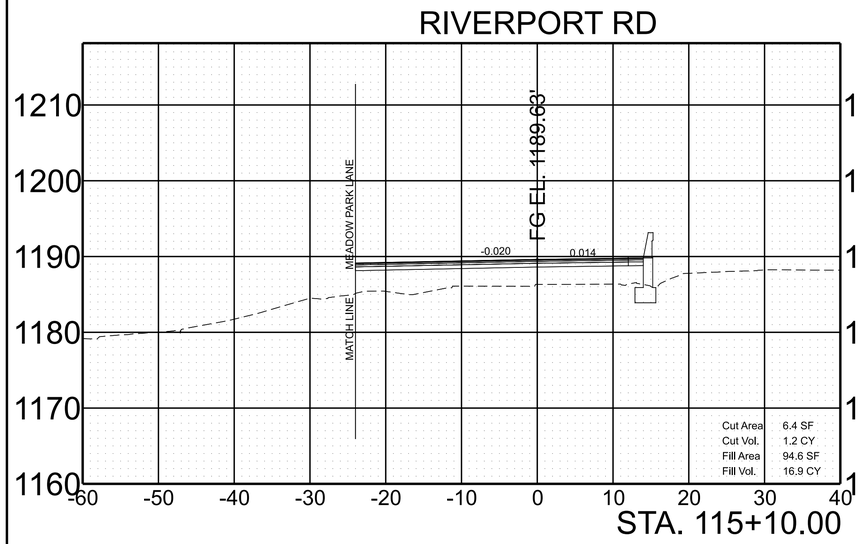
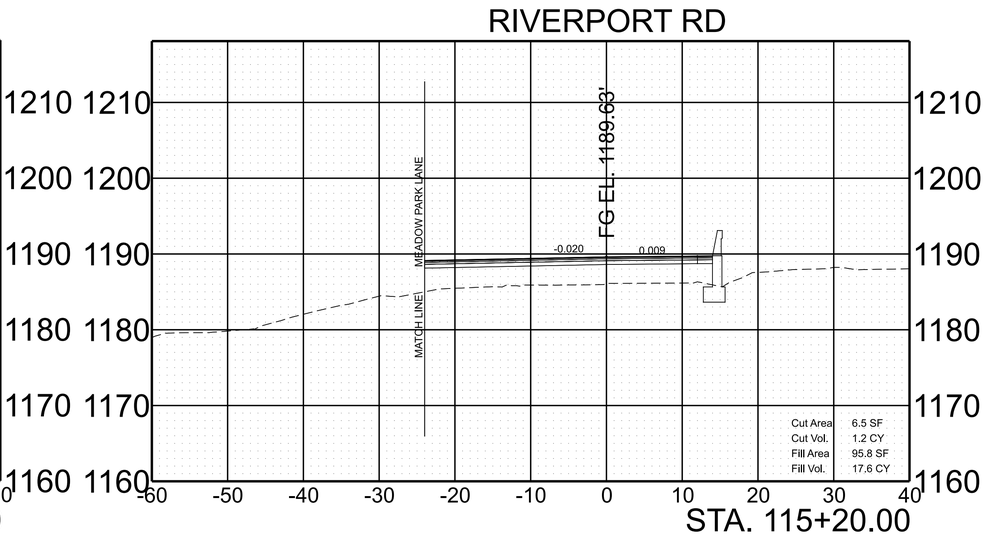
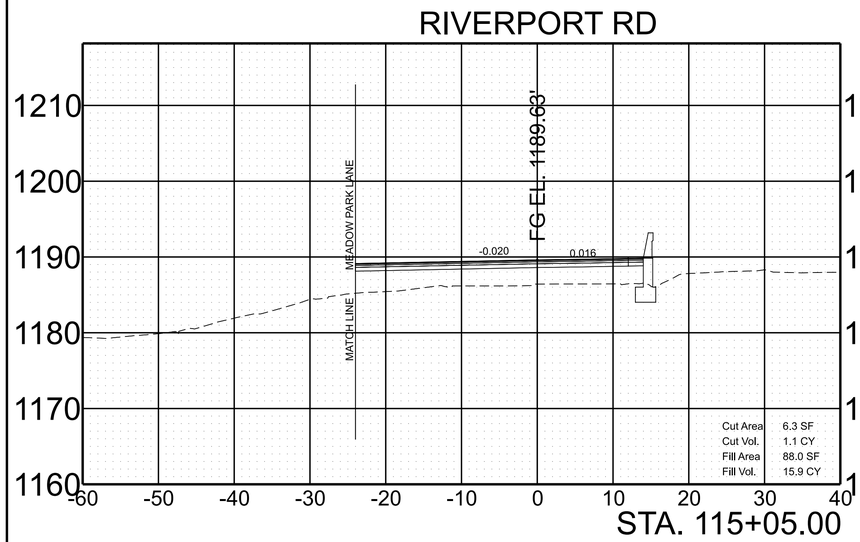
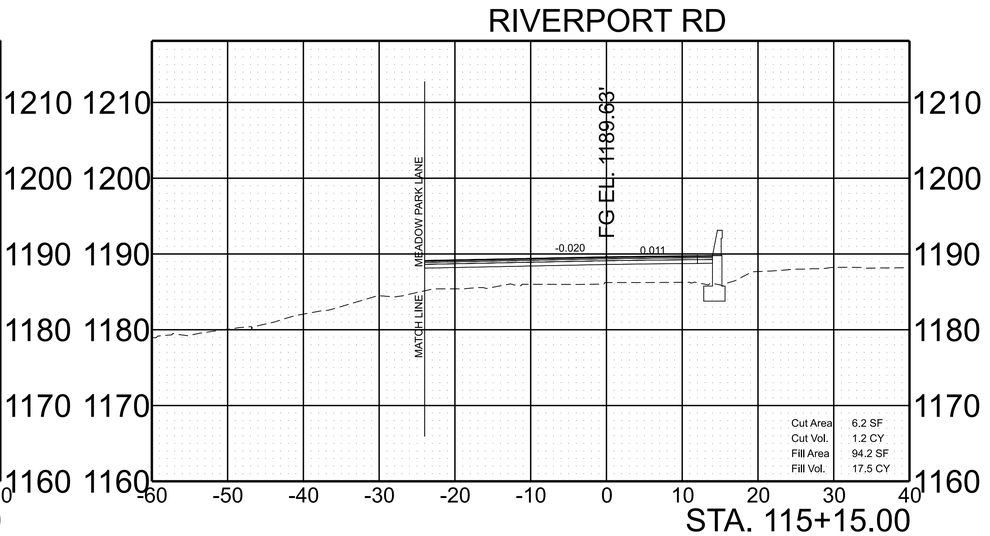
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	156
PIH	2026	82956-3594-04	158
PS&E	2026	82956-3594-04	158

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 115+05.00 END STA. 115+20.00

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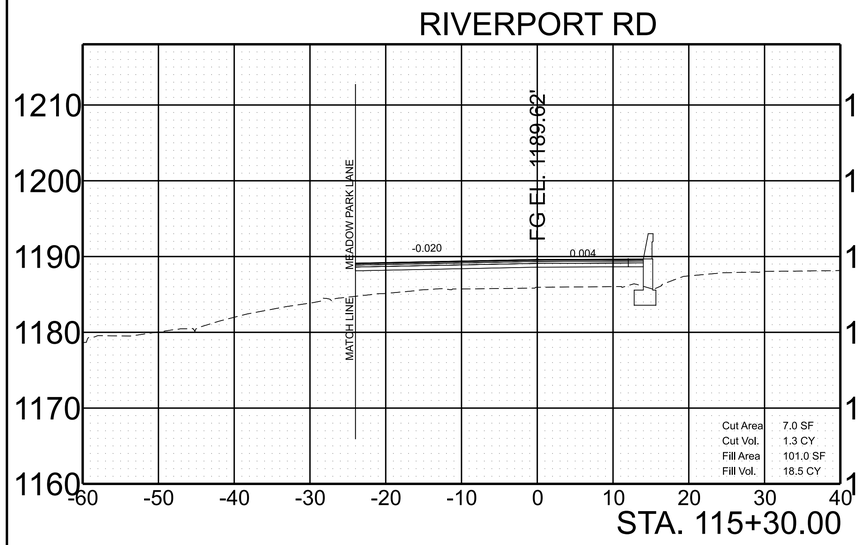
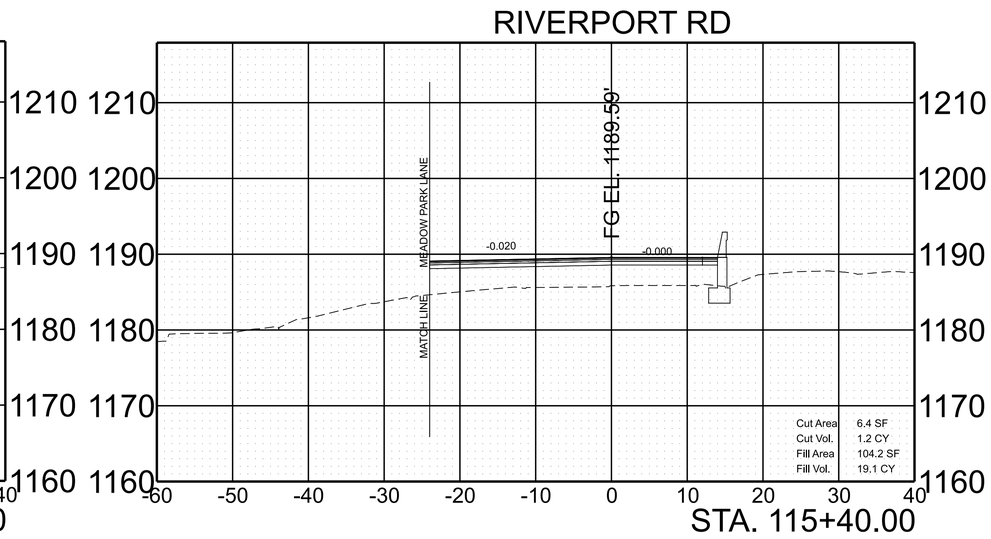
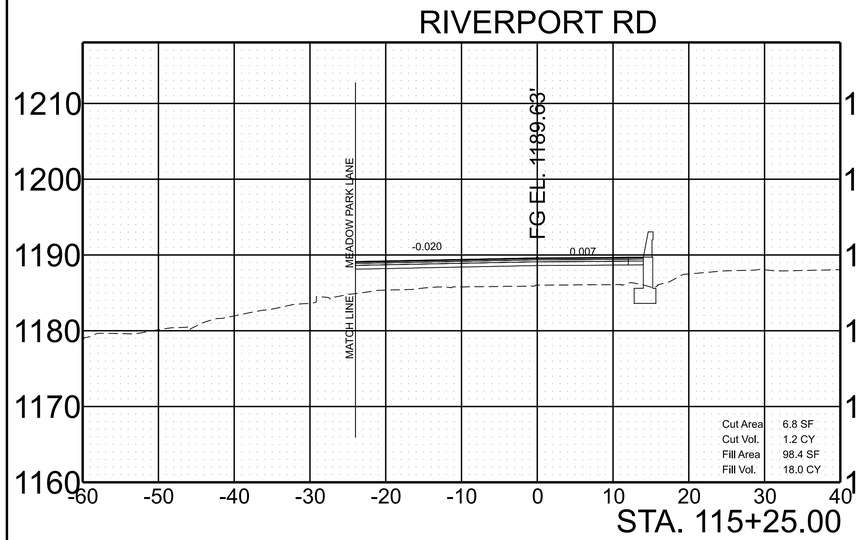
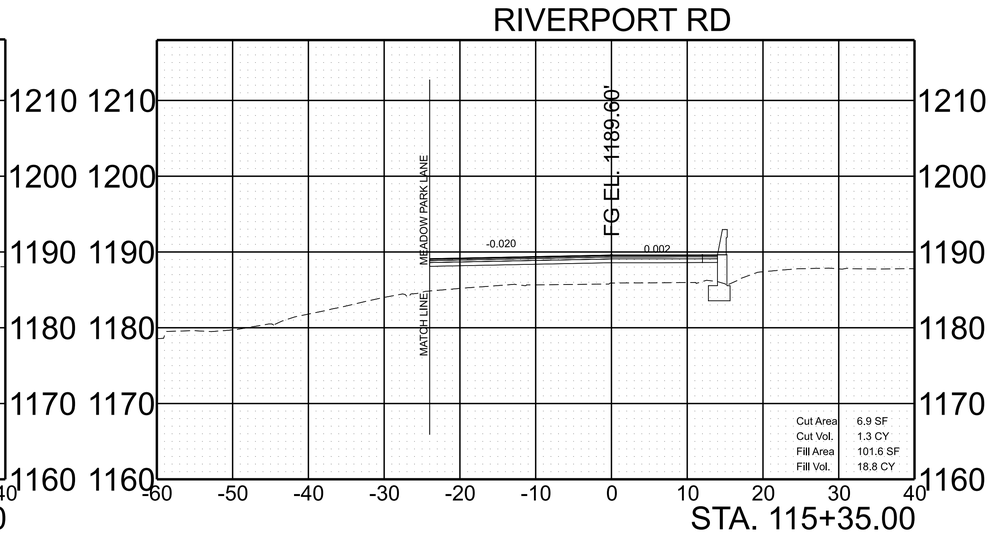
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	157
PIH	2026	82956-3594-04	159
PS&E	2026	82956-3594-04	159

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 115+25.00 END STA. 115+40.00

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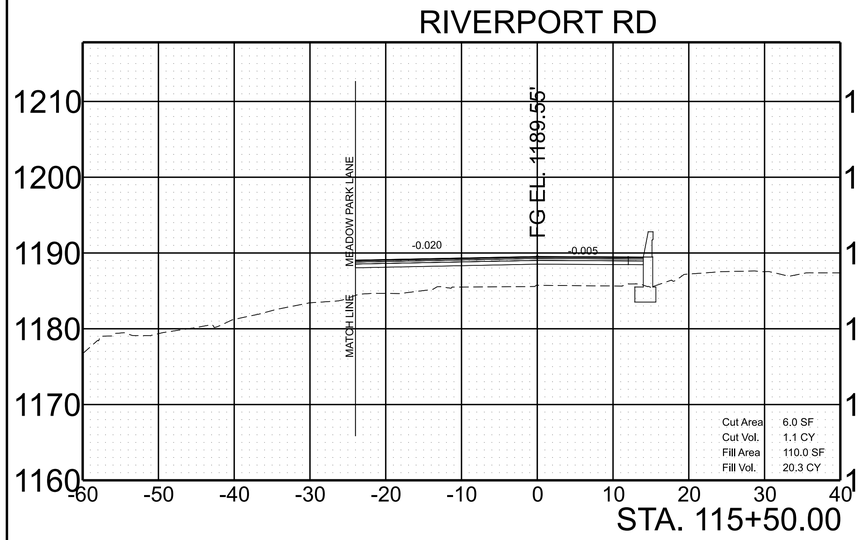
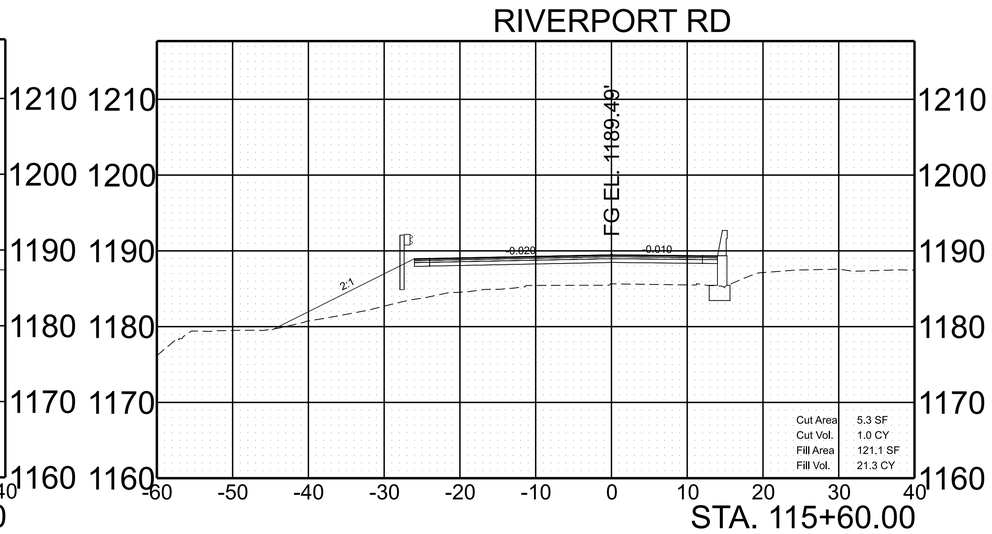
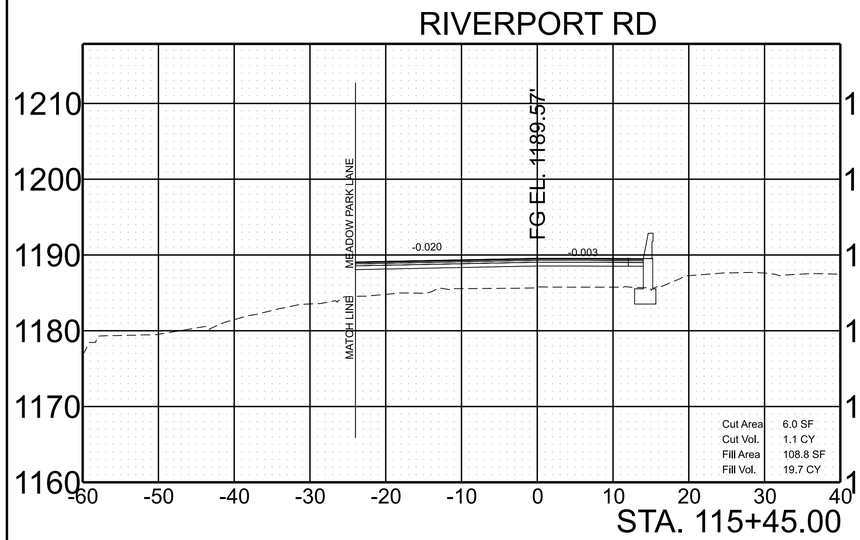
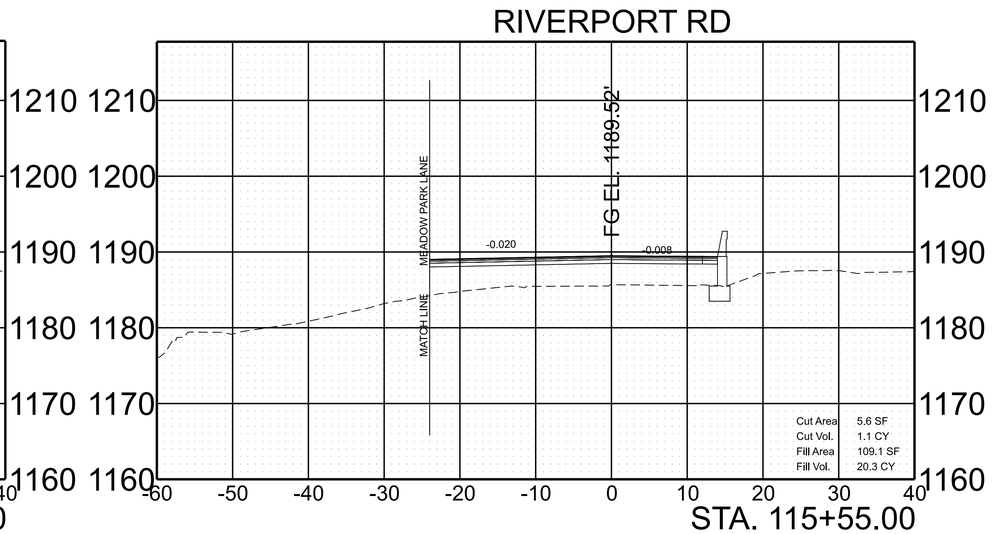
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	158
PIH	2026	82956-3594-04	160
PS&E	2026	82956-3594-04	160

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 115+45.00
	1"=10' VERT.	END STA. 115+60.00

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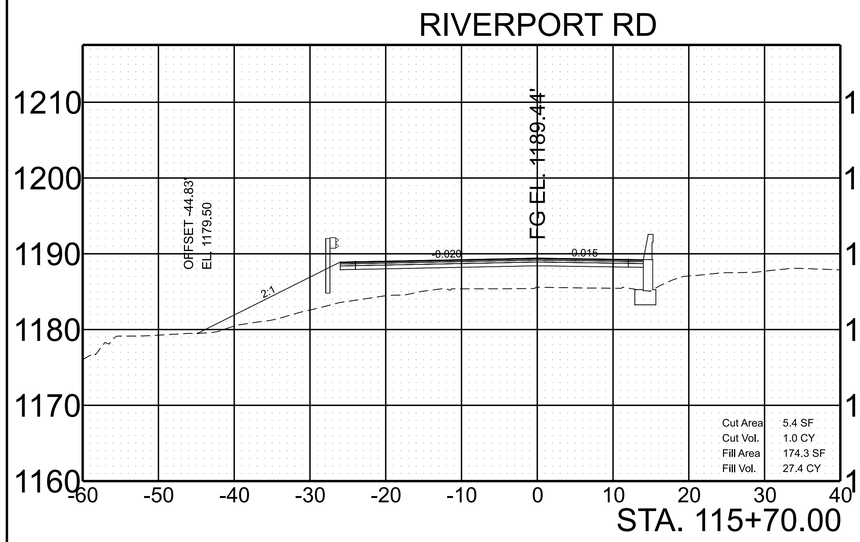
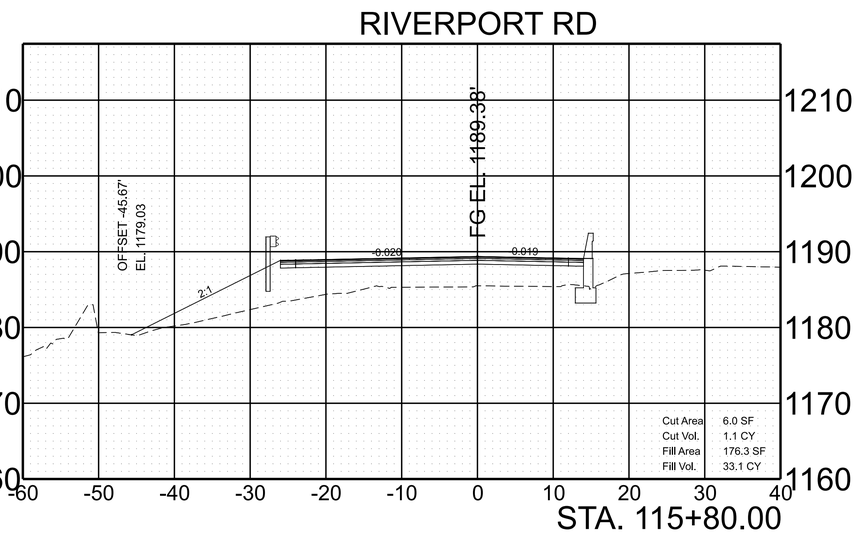
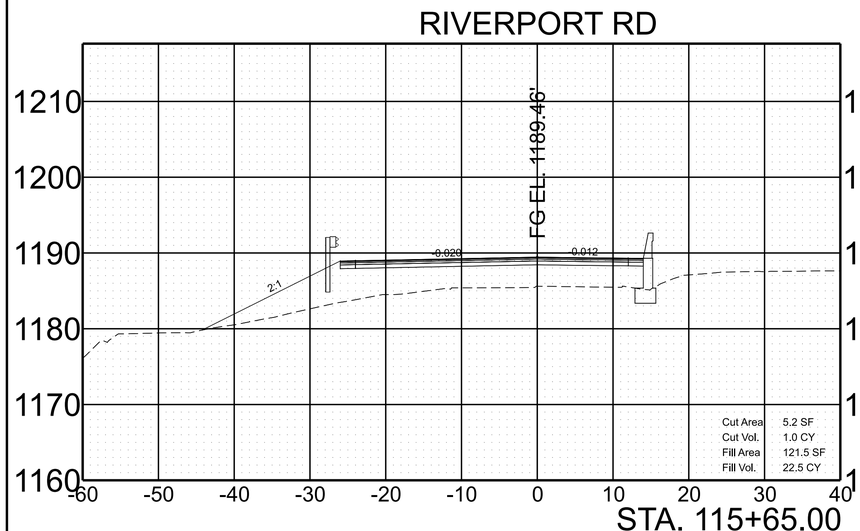
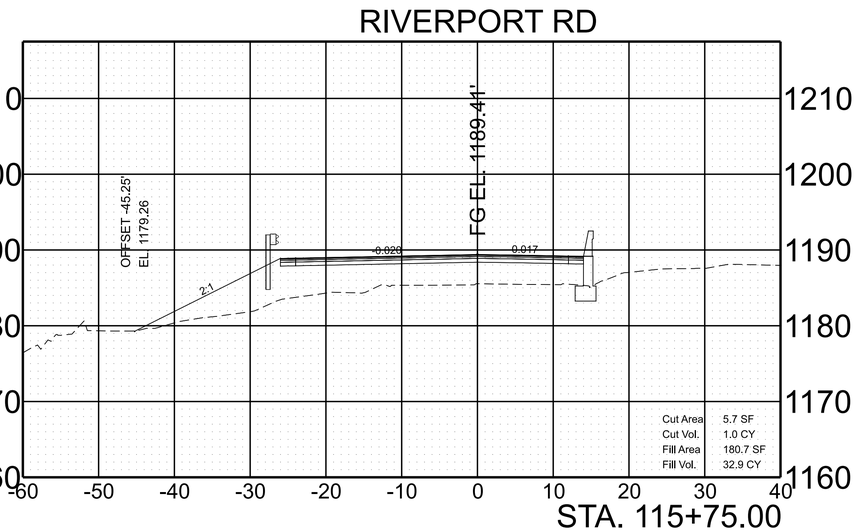
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	159
PIH	2026	82956-3594-04	161
PS&E	2026	82956-3594-04	161

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 115+65.00 END STA. 115+80.00

6/30/2026 3:35:01 PM
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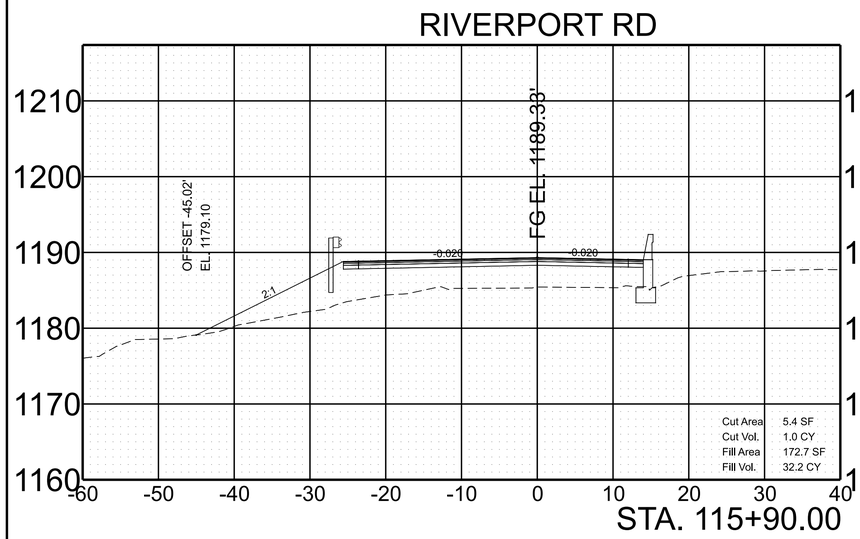
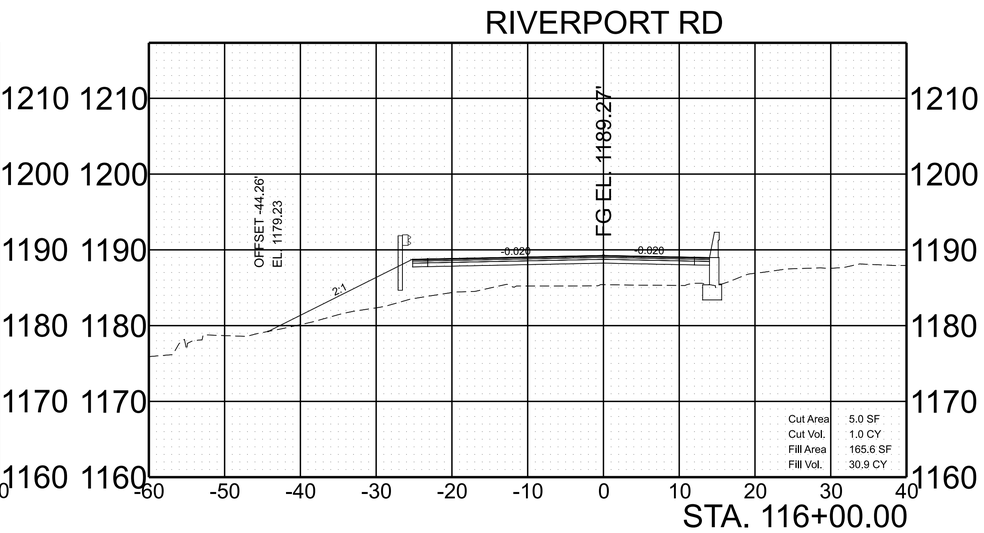
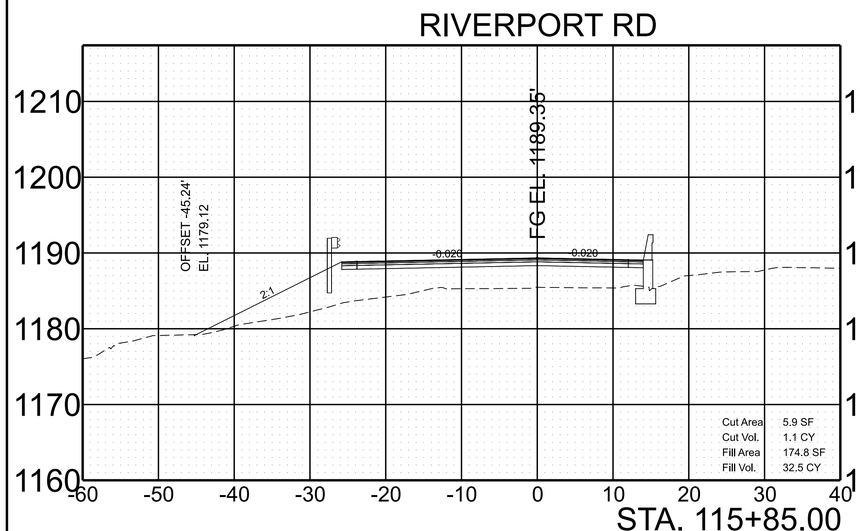
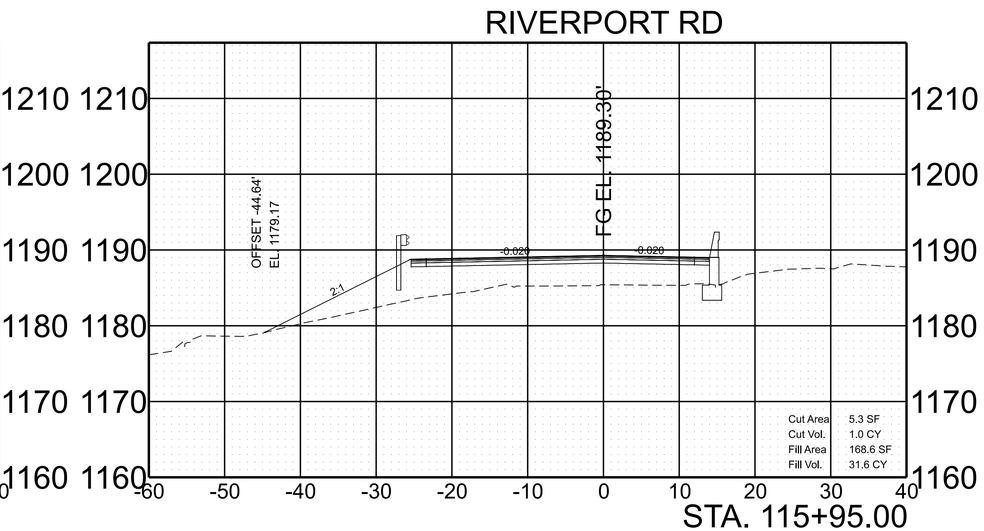
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	160
PIH	2026	82956-3594-04	162
PS&E	2026	82956-3594-04	162

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 115+85.00 END STA. 116+00.00

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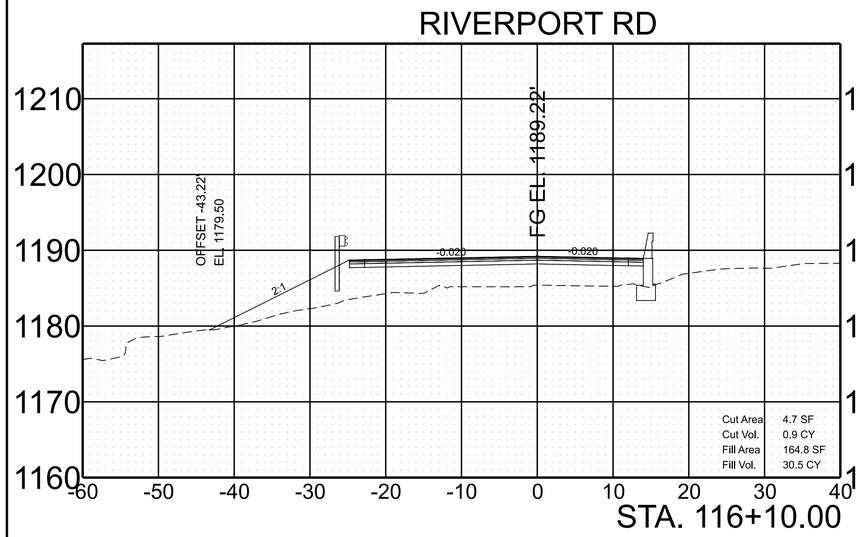
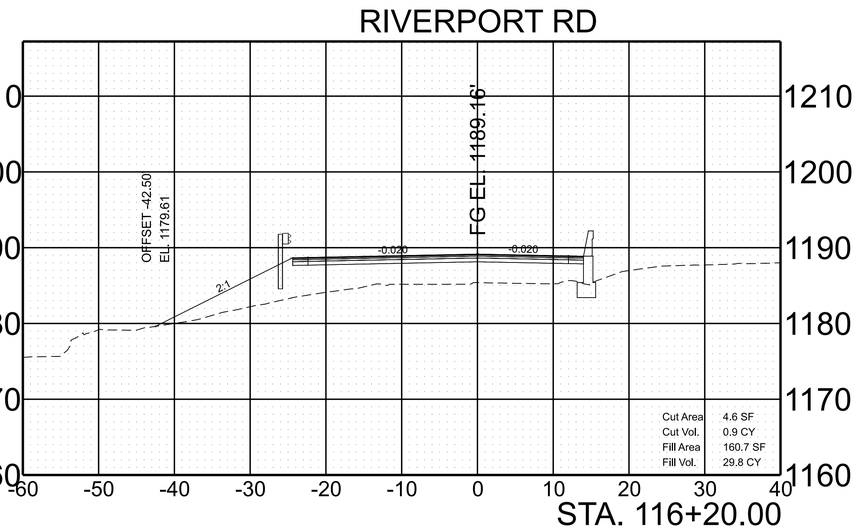
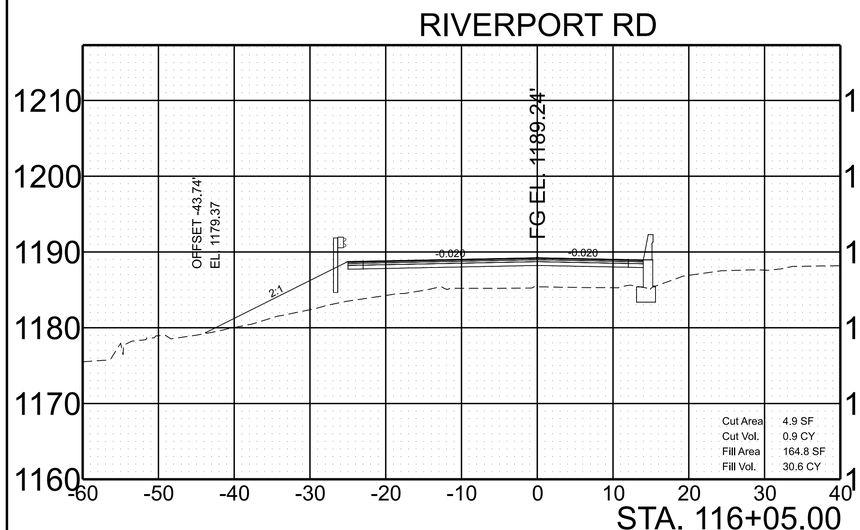
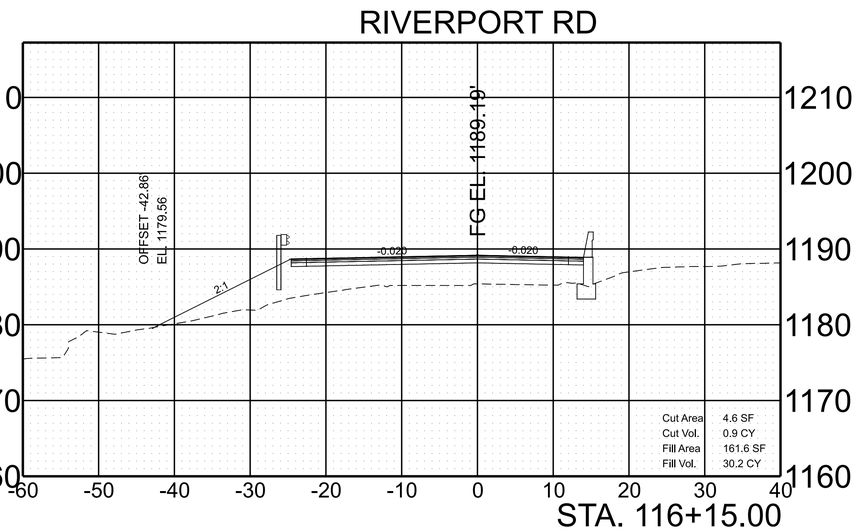
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	161
PIH	2026	82956-3594-04	163
PS&E	2026	82956-3594-04	163

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE: 1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 116+05.00 END STA. 116+20.00

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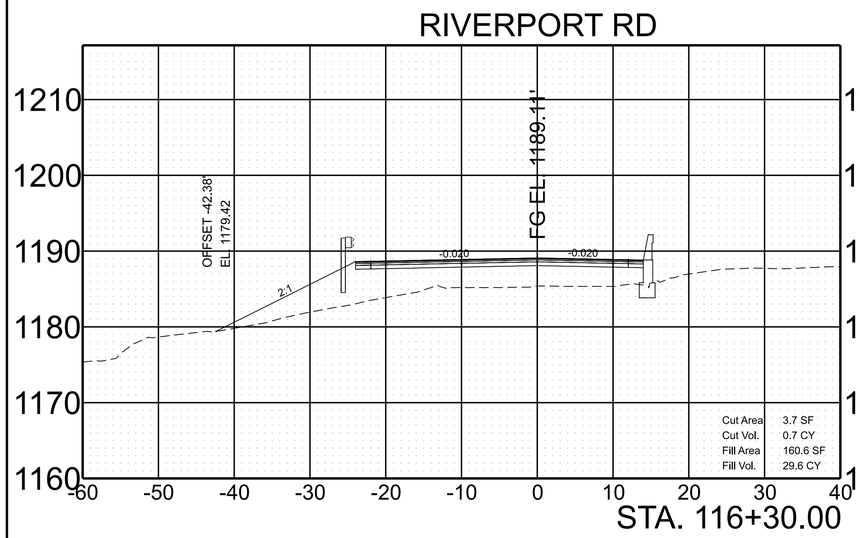
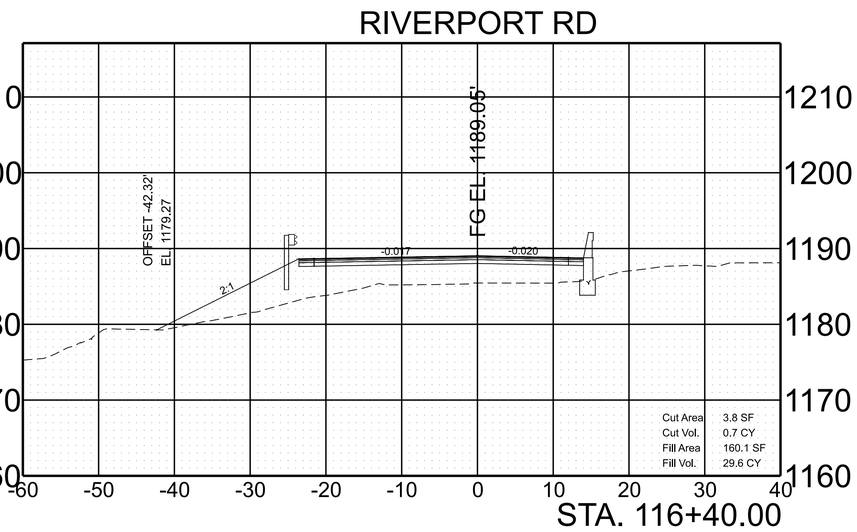
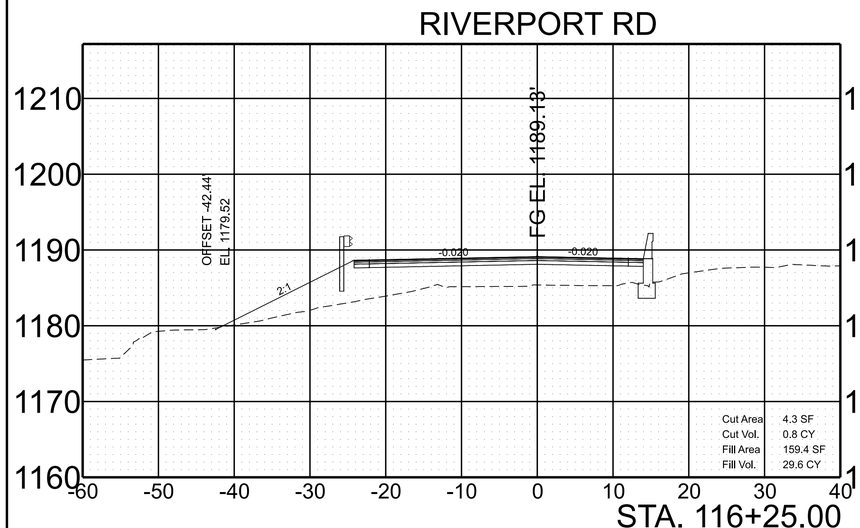
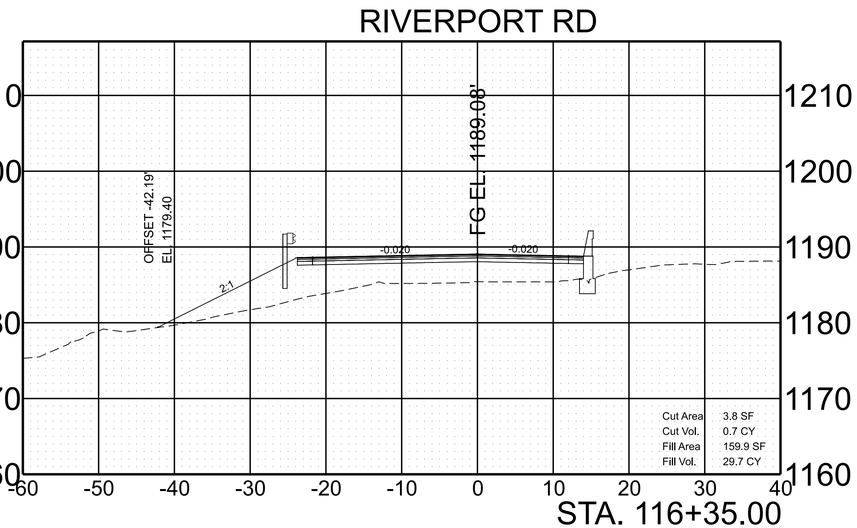
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	162
PIH	2026	82956-3594-04	164
PS&E	2026	82956-3594-04	164

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 116+25.00 END STA. 116+40.00

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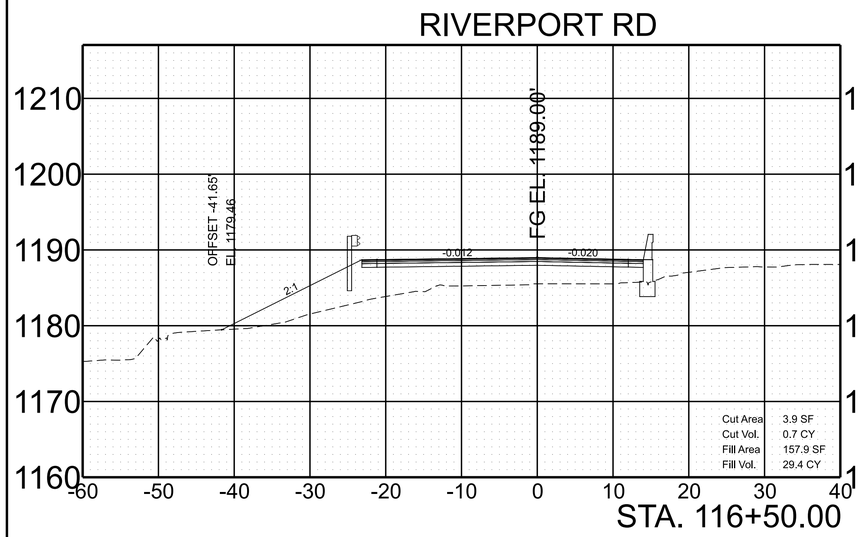
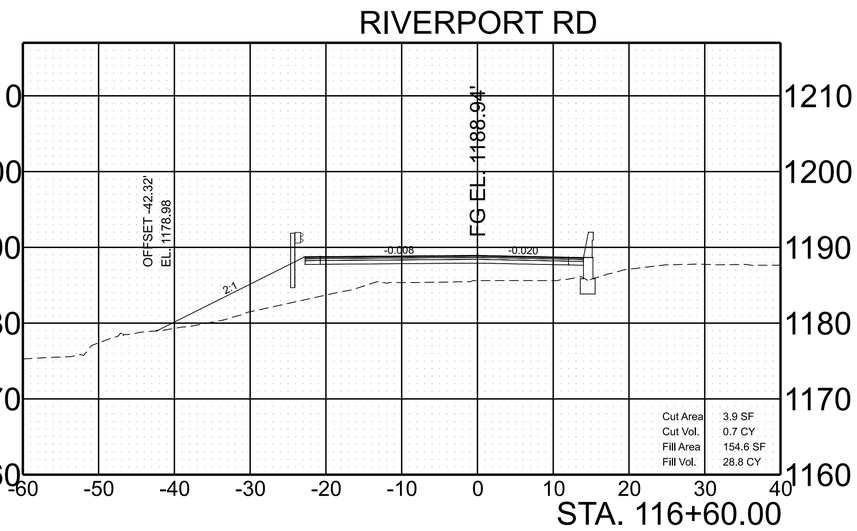
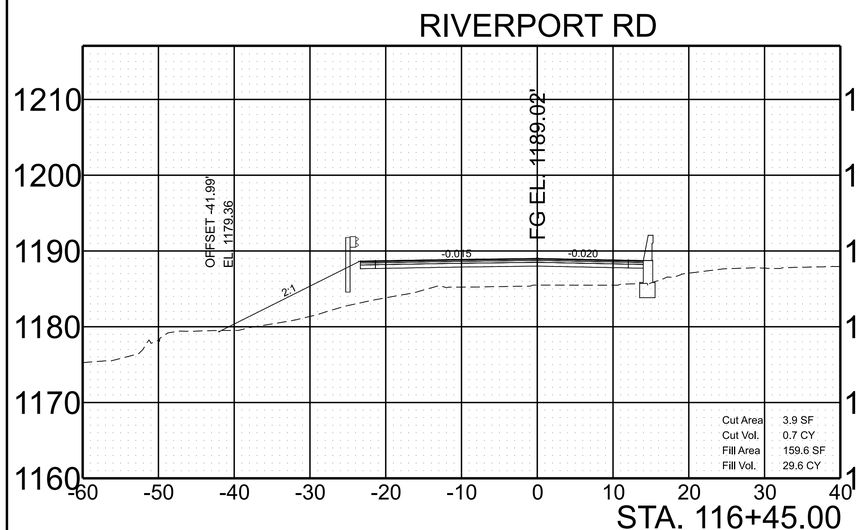
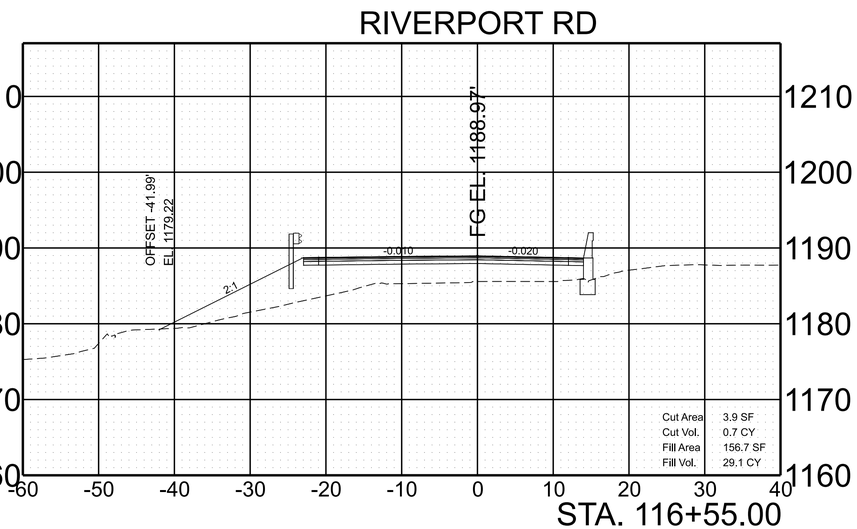
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	163
PIH	2026	82956-3594-04	165
PS&E	2026	82956-3594-04	165

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 116+45.00 END STA. 116+60.00

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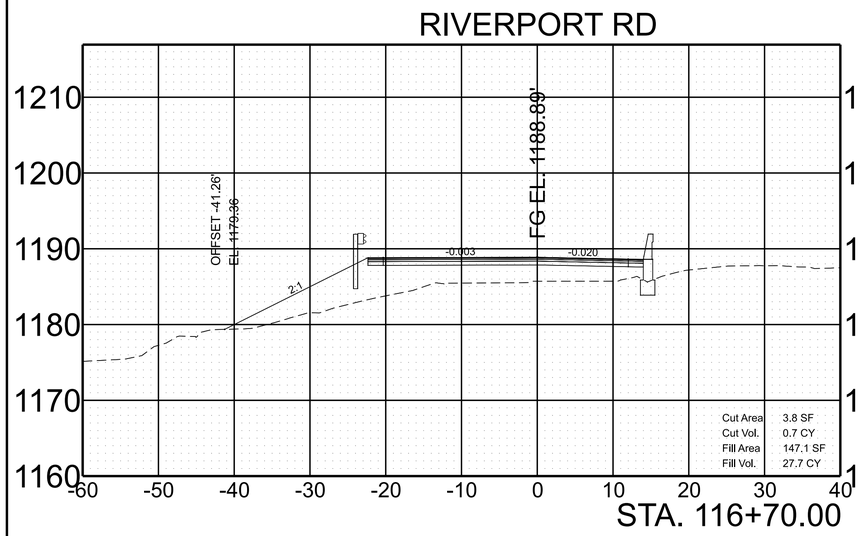
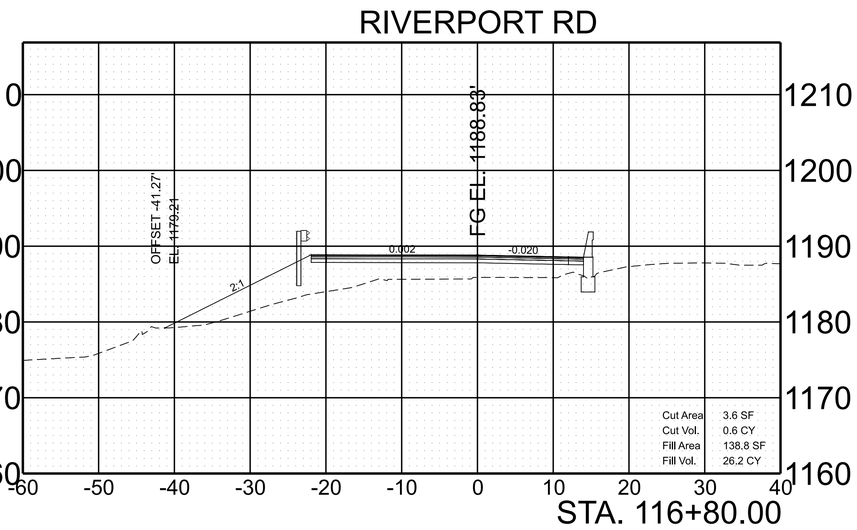
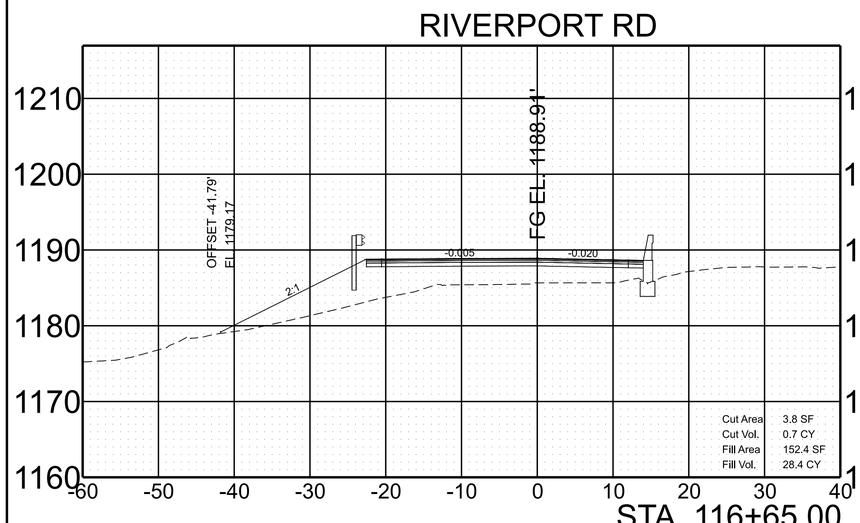
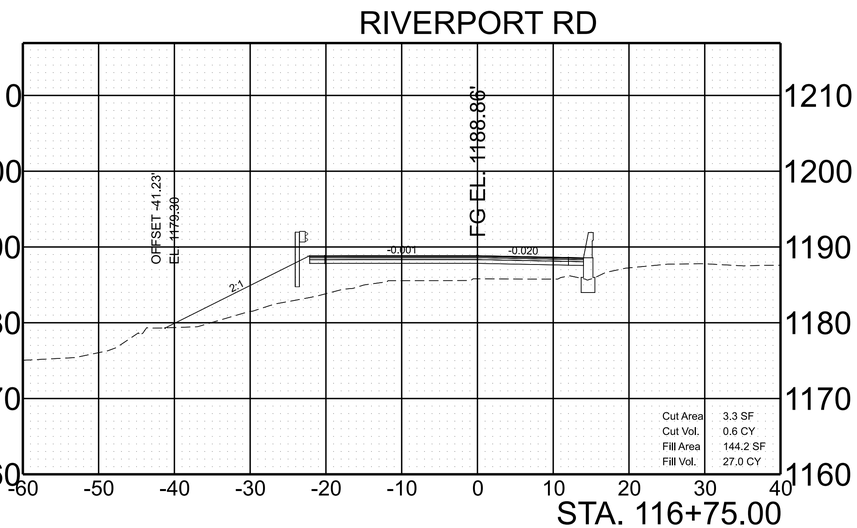
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	164
PIH	2026	82956-3594-04	166
PS&E	2026	82956-3594-04	166

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 116+65.00
	1"=10' VERT.	END STA. 116+80.00

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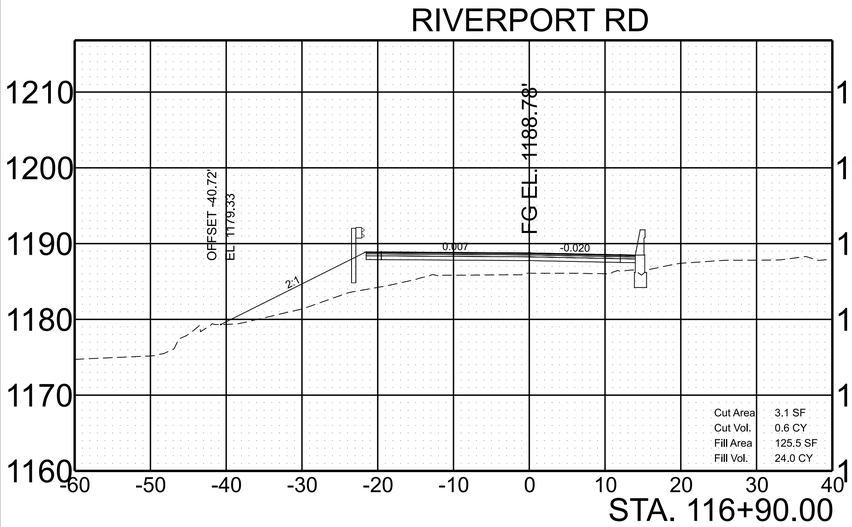
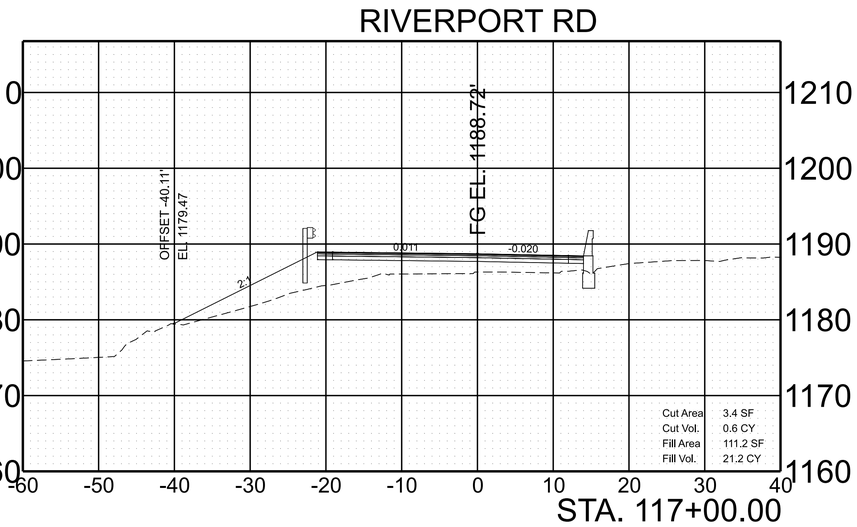
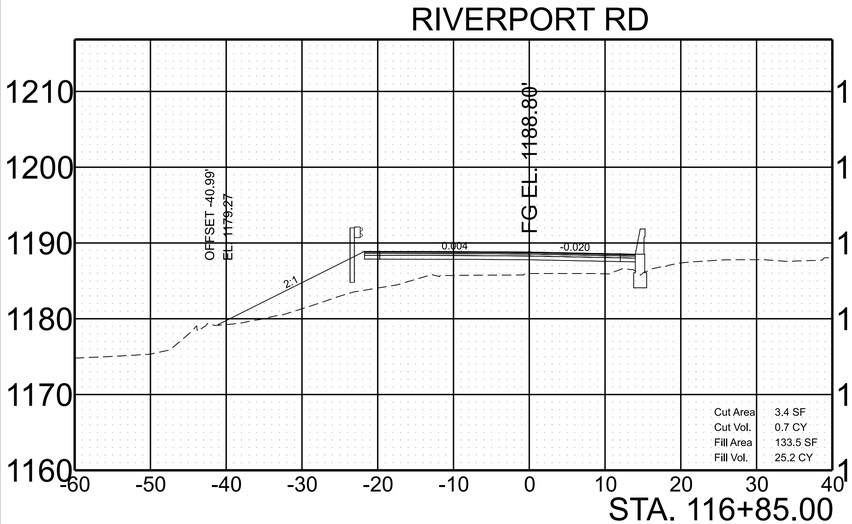
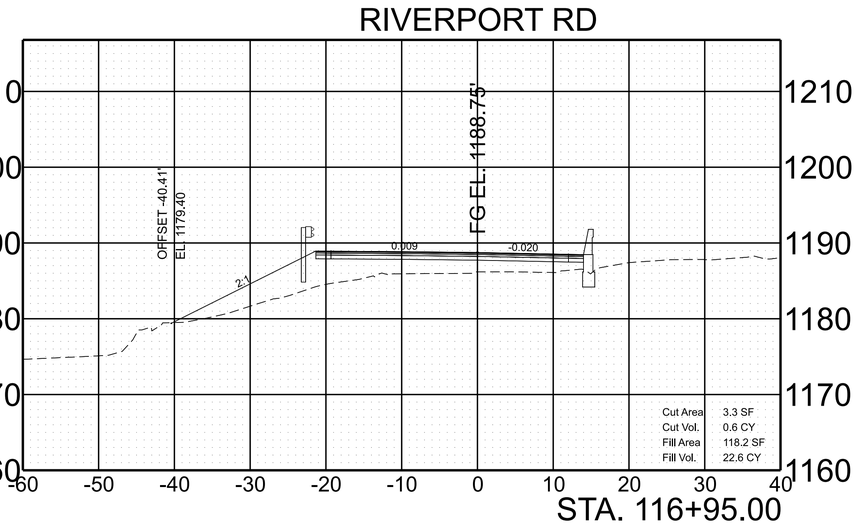
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	165
PIH	2026	82956-3594-04	167
PS&E	2026	82956-3594-04	167

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 116+85.00
	1"=10' VERT.	END STA. 117+00.00

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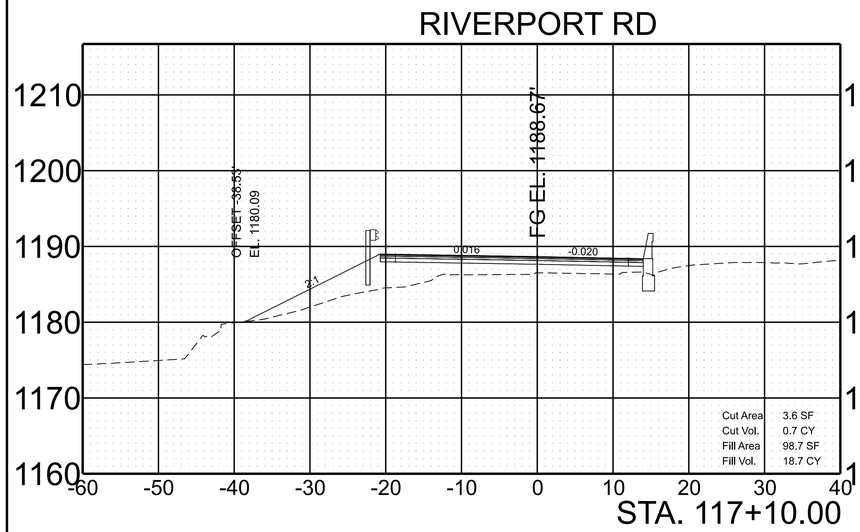
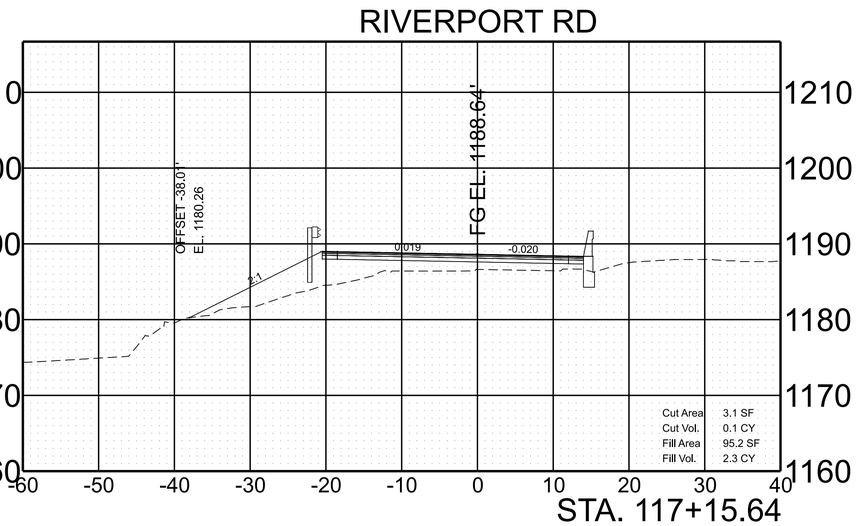
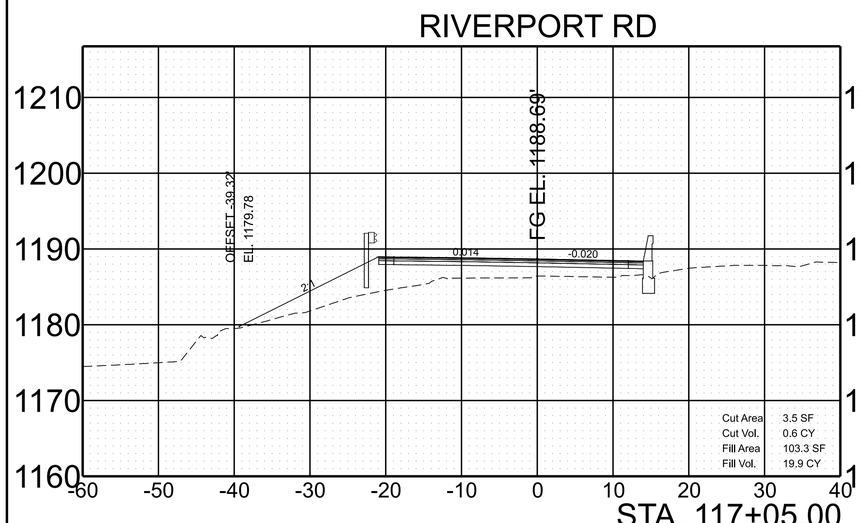
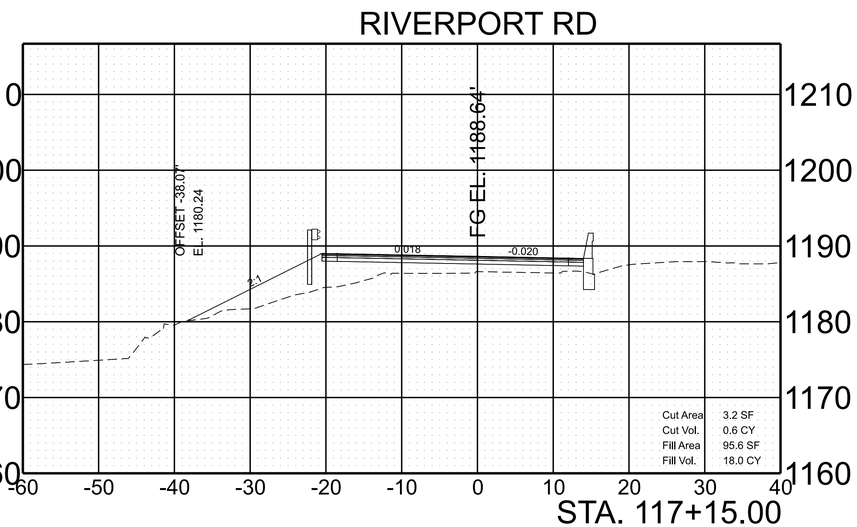
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	166
PIH	2026	82956-3594-04	168
PS&E	2026	82956-3594-04	168

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 117+05.00 END STA. 117+15.64

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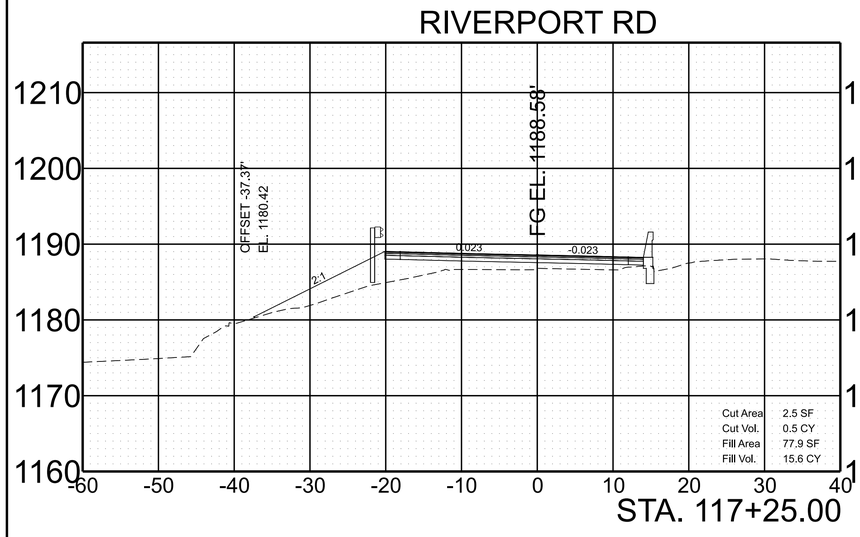
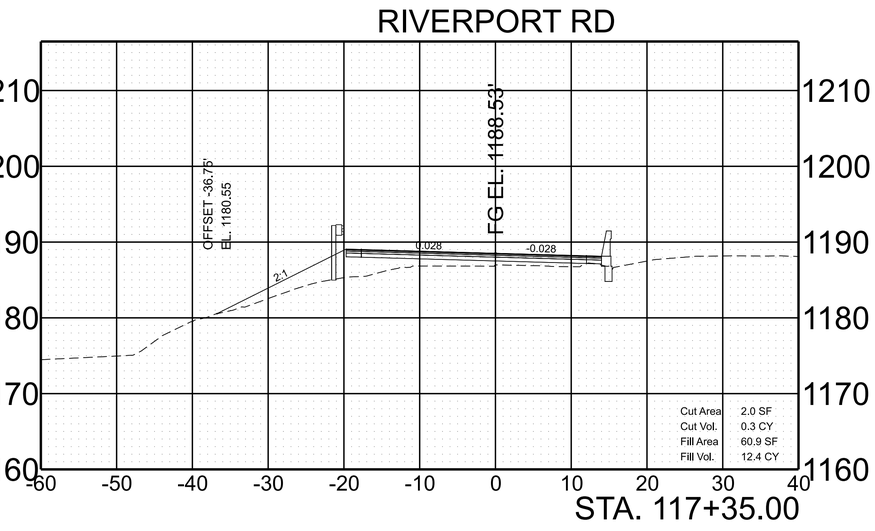
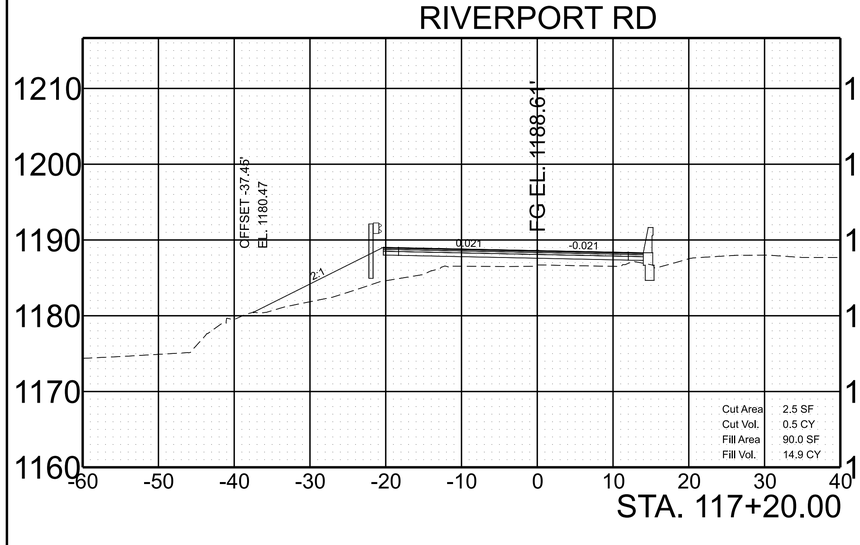
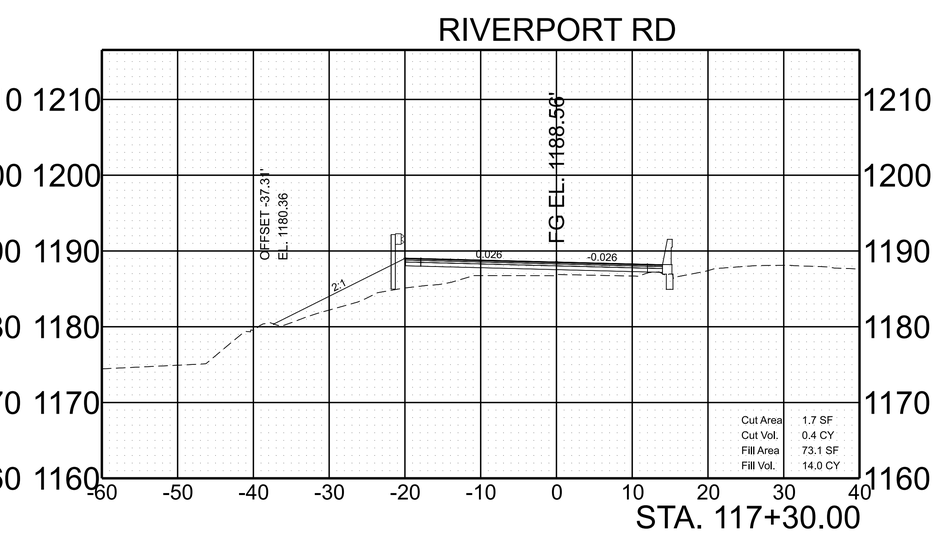
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	167
PIH	2026	82956-3594-04	169
PS&E	2026	82956-3594-04	169

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ.	BEGIN STA. 117+20.00
	1"=10' VERT.	END STA. 117+35.00

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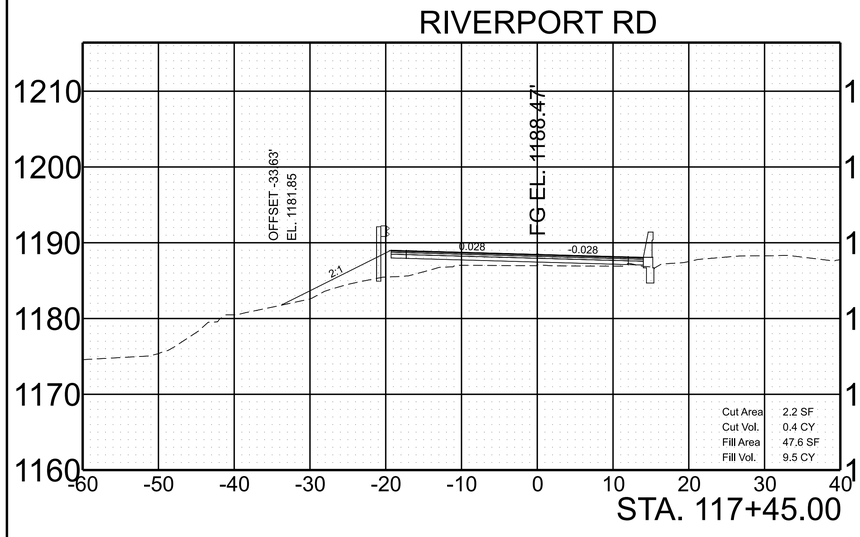
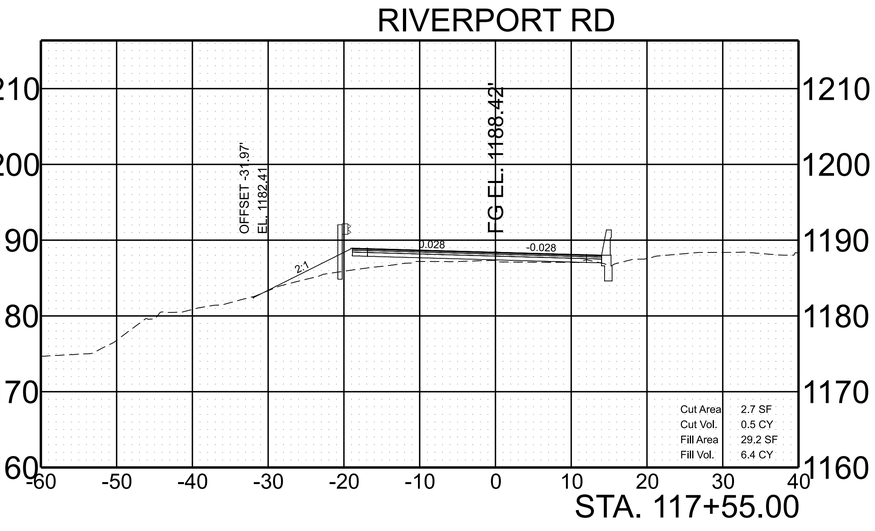
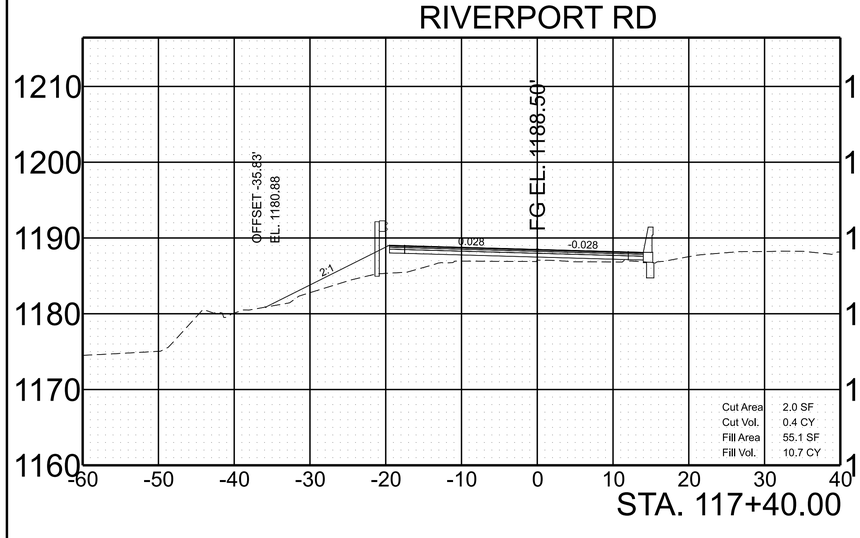
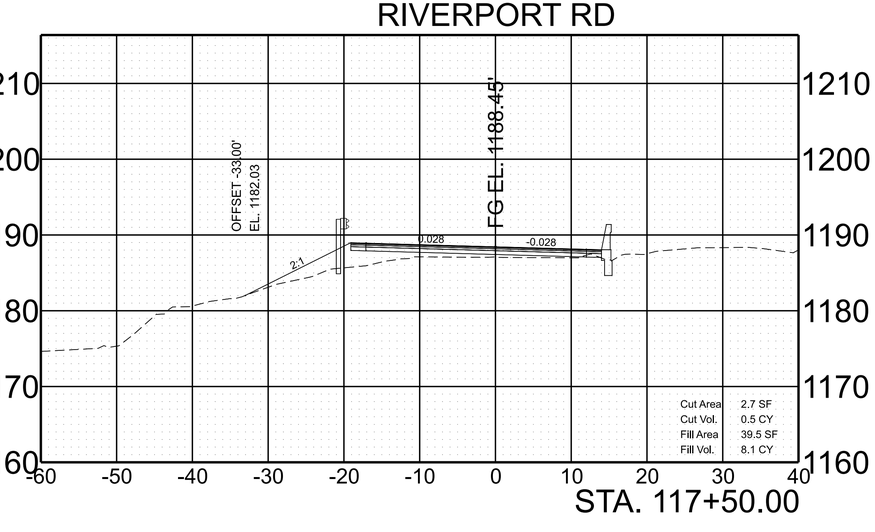
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	168
PIH	2026	82956-3594-04	170
PS&E	2026	82956-3594-04	170

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









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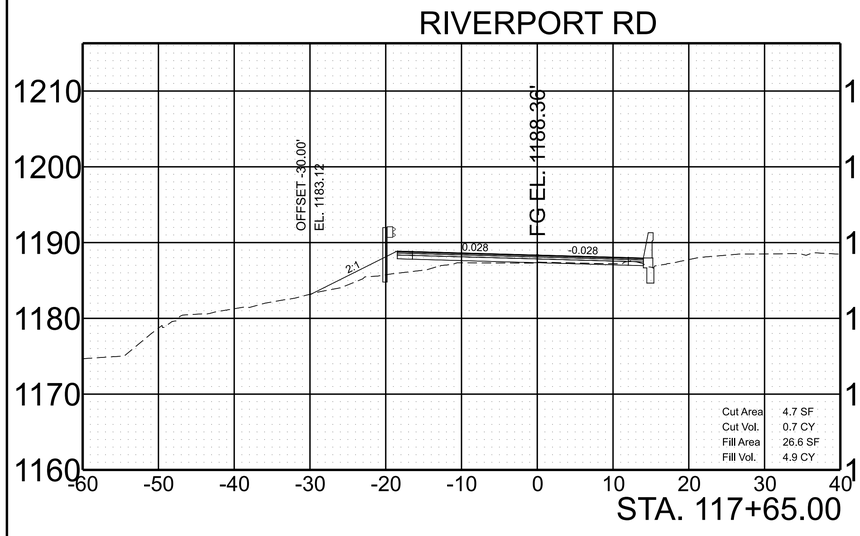
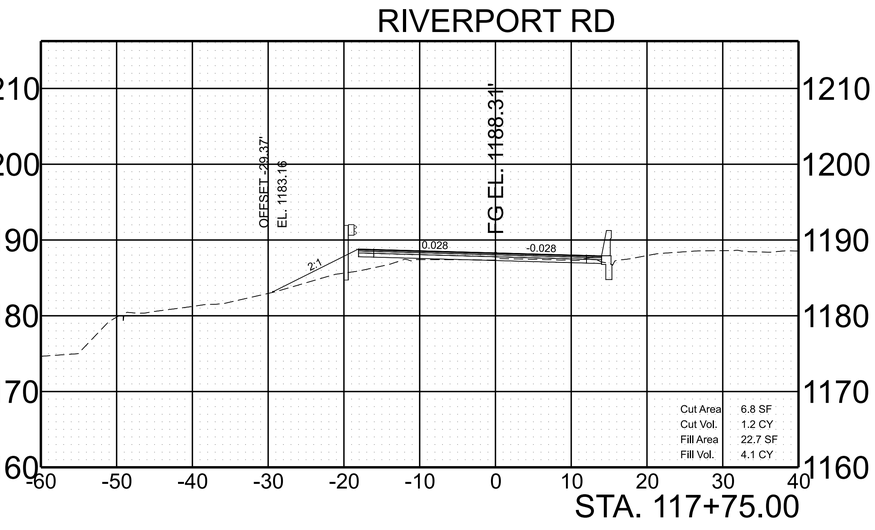
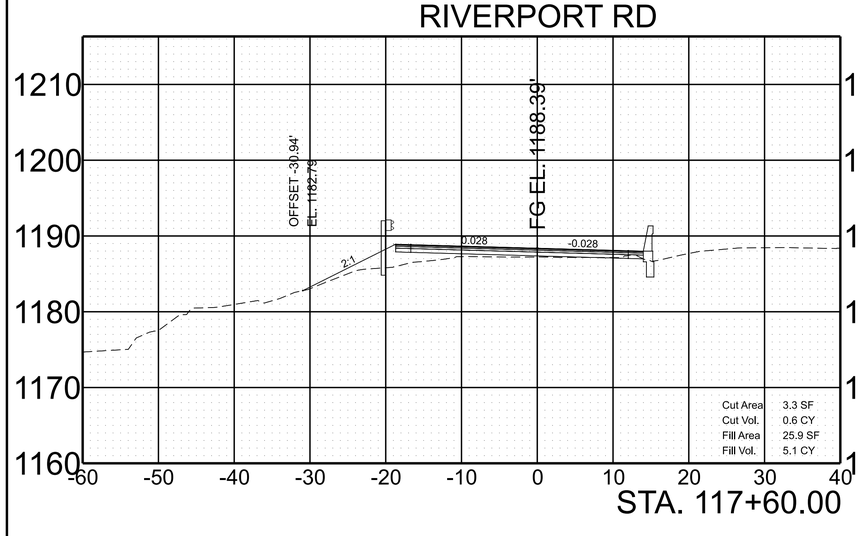
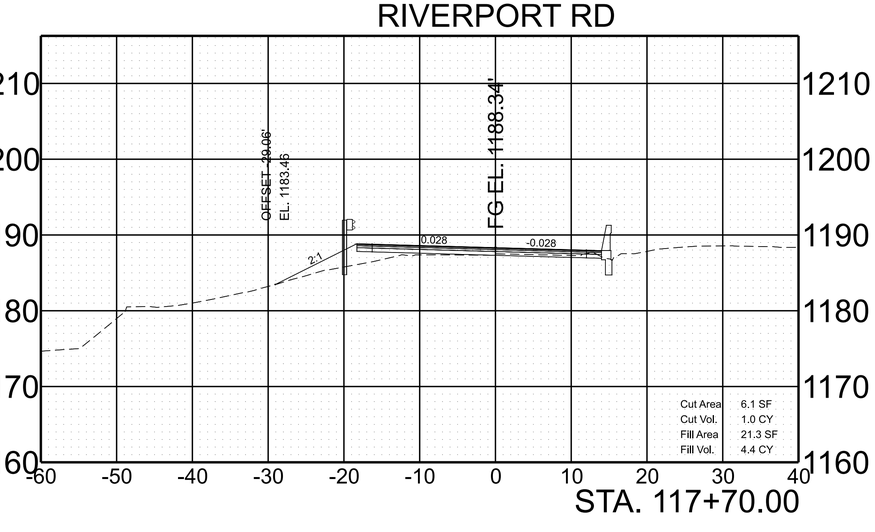
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	169
PIH	2026	82956-3594-04	171
PS&E	2026	82956-3594-04	171

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









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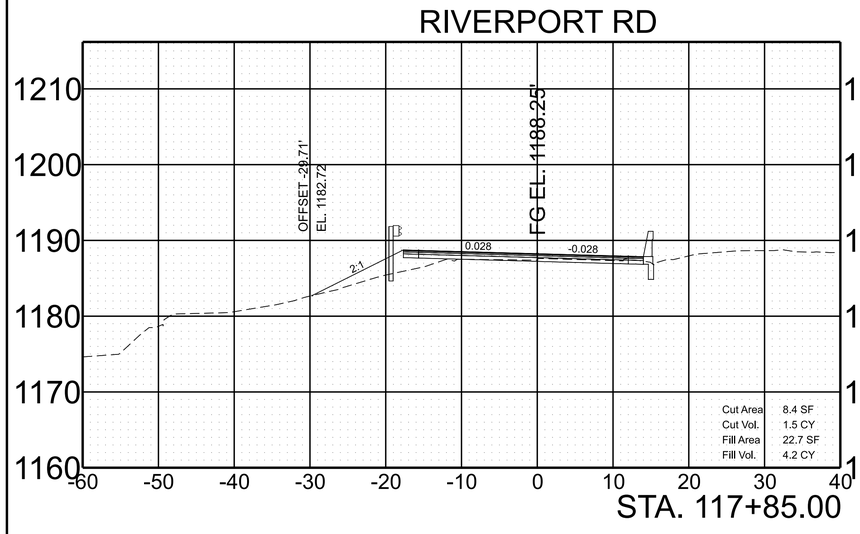
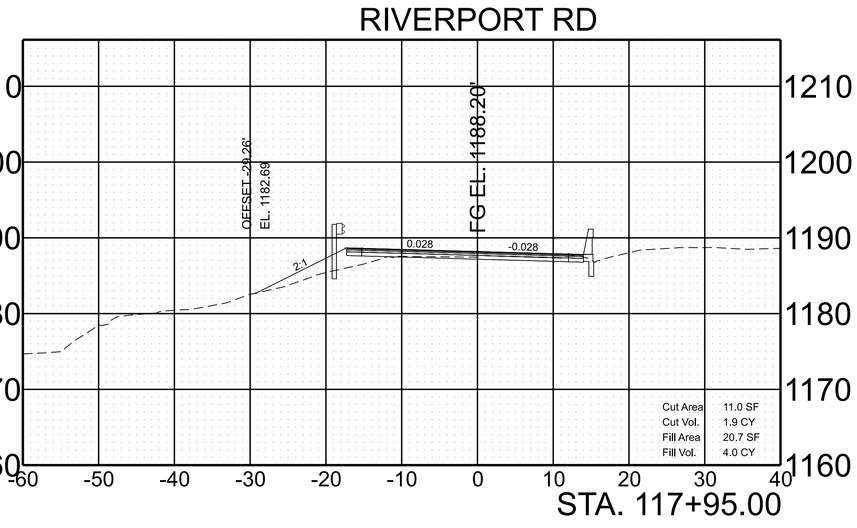
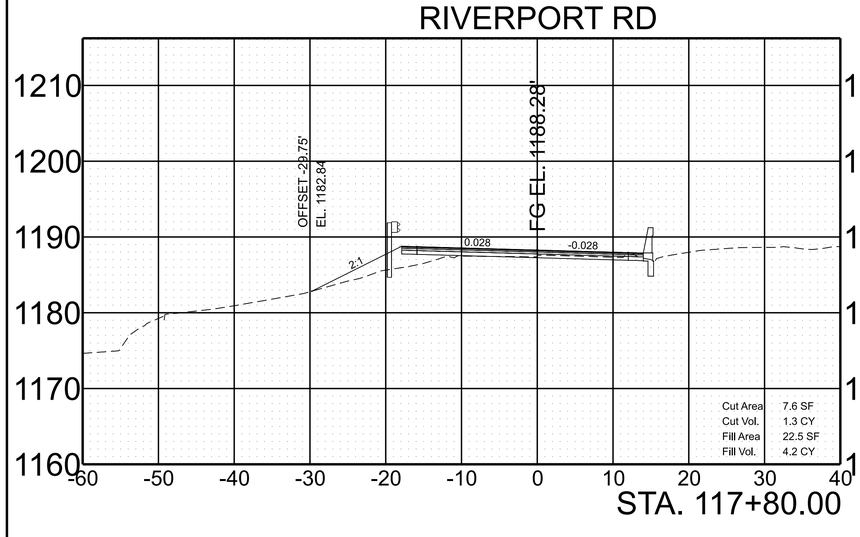
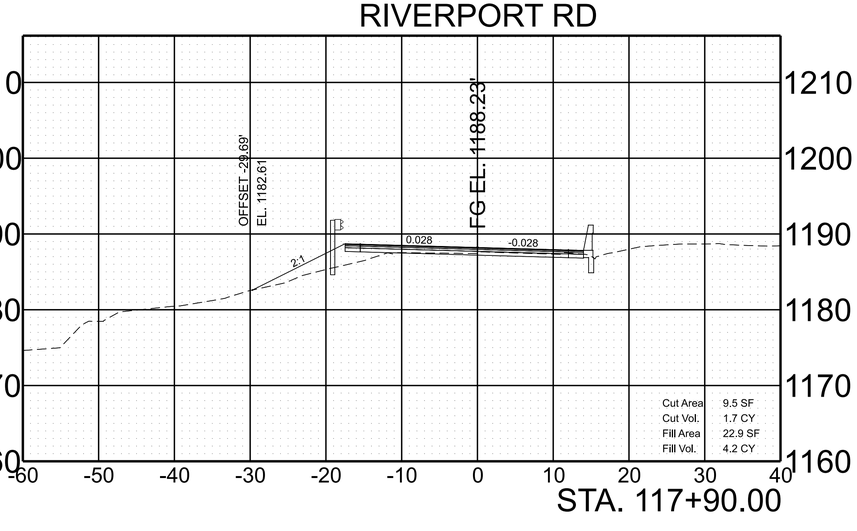
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	170
PIH	2026	82956-3594-04	172
PS&E	2026	82956-3594-04	172

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 117+80.00 END STA. 117+95.00

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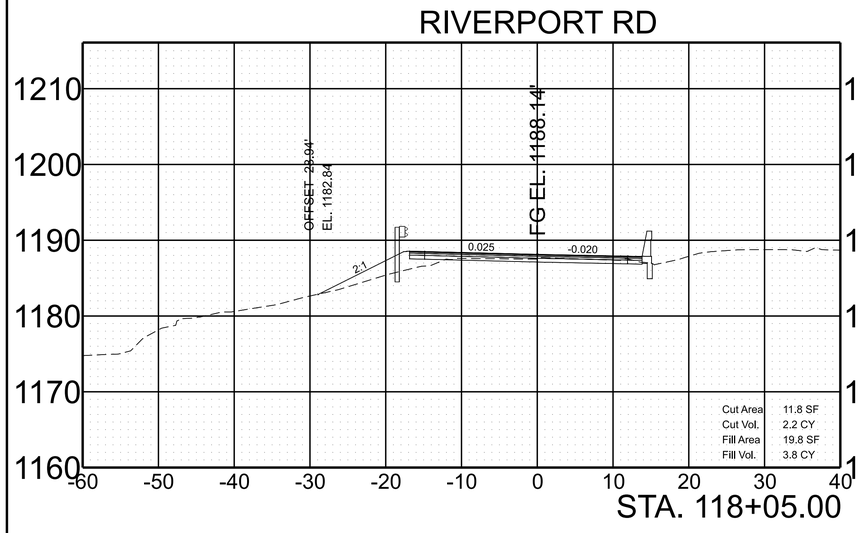
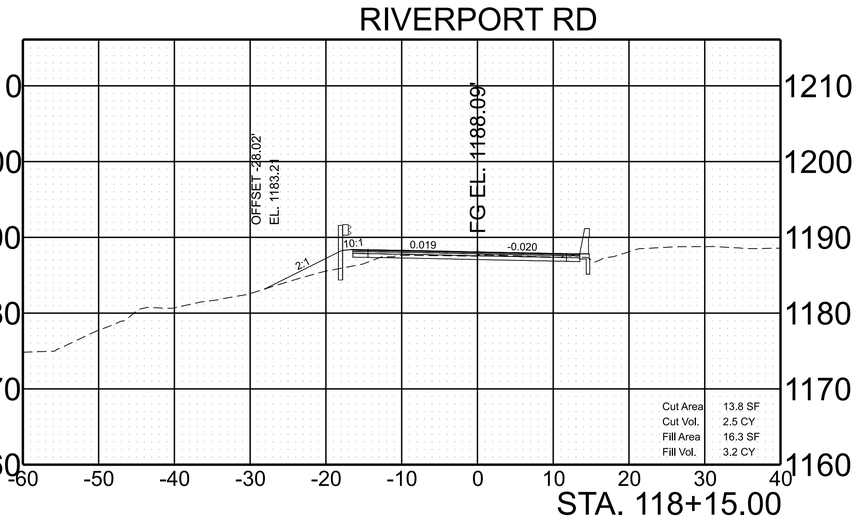
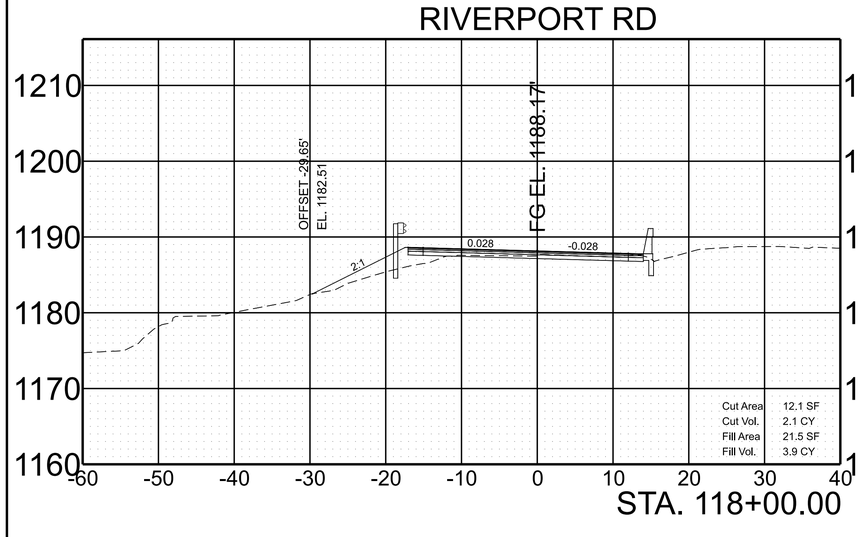
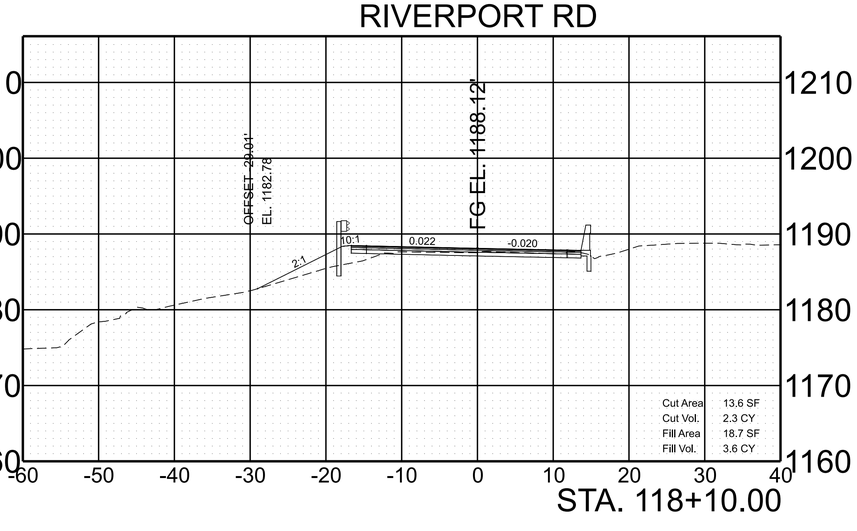
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	171
PIH	2026	82956-3594-04	173
PS&E	2026	82956-3594-04	173

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 118+00.00 END STA. 118+15.00

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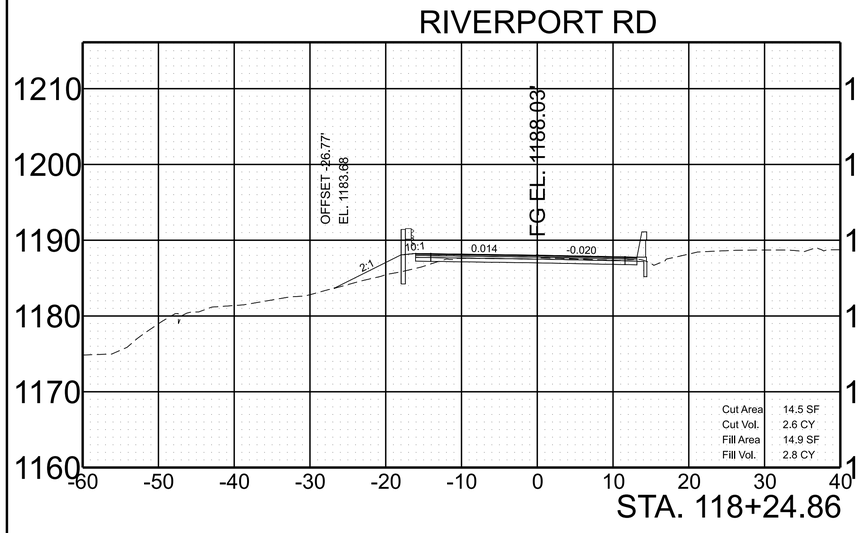
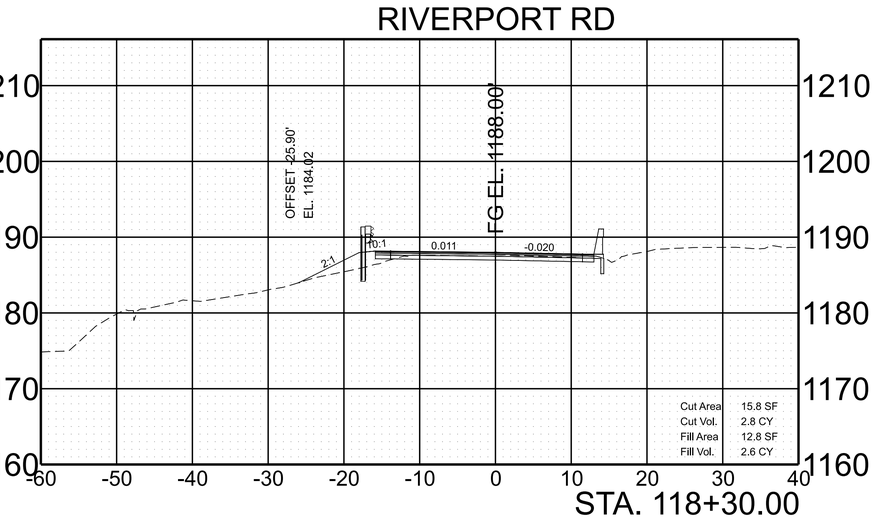
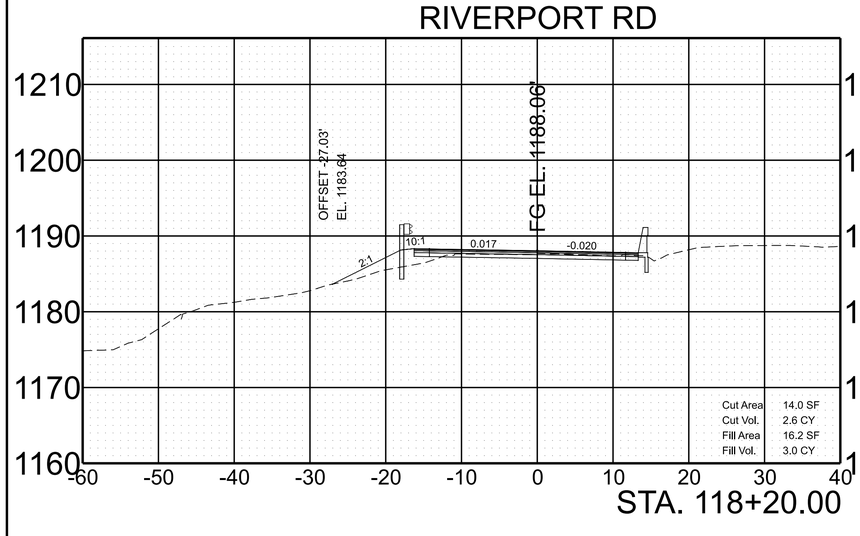
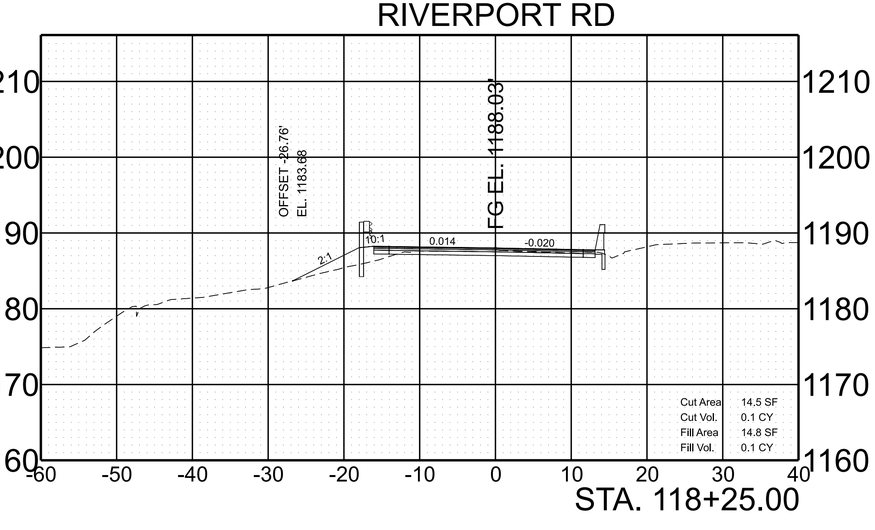
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	172
PIH	2026	82956-3594-04	174
PS&E	2026	82956-3594-04	174

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









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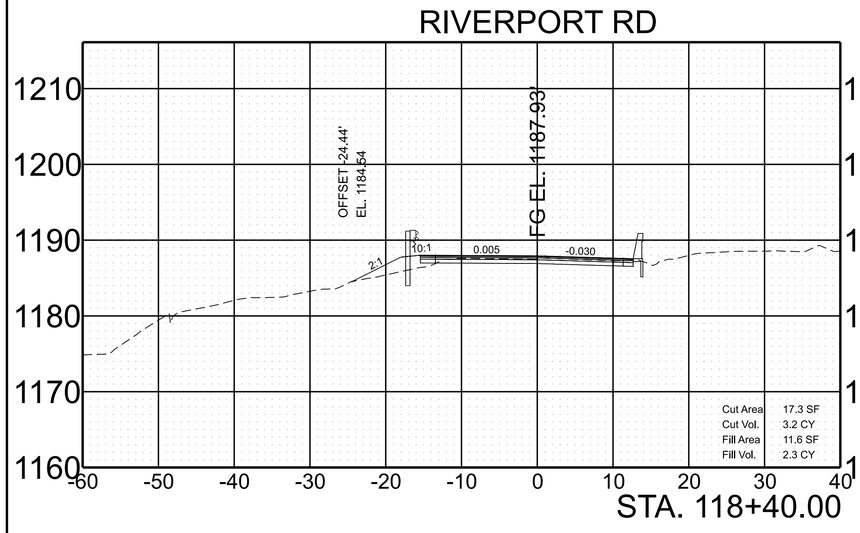
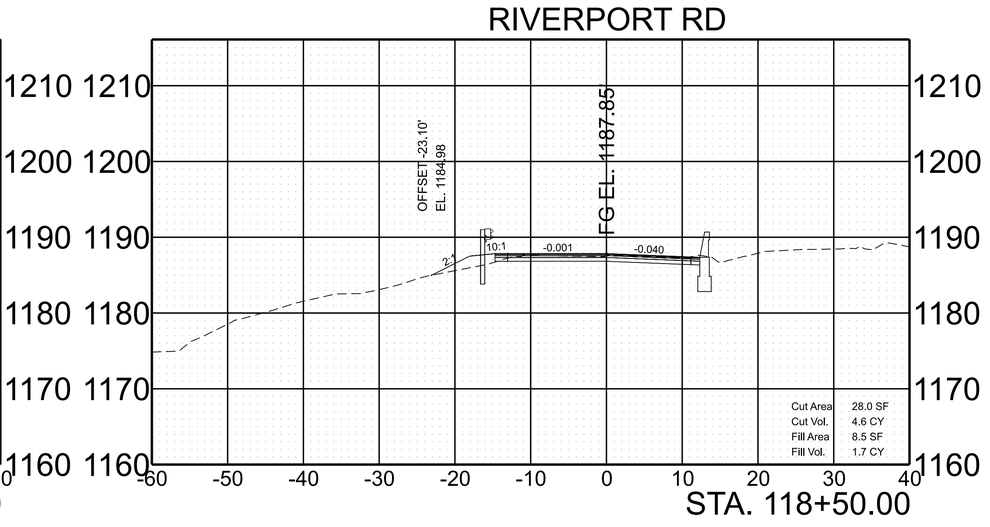
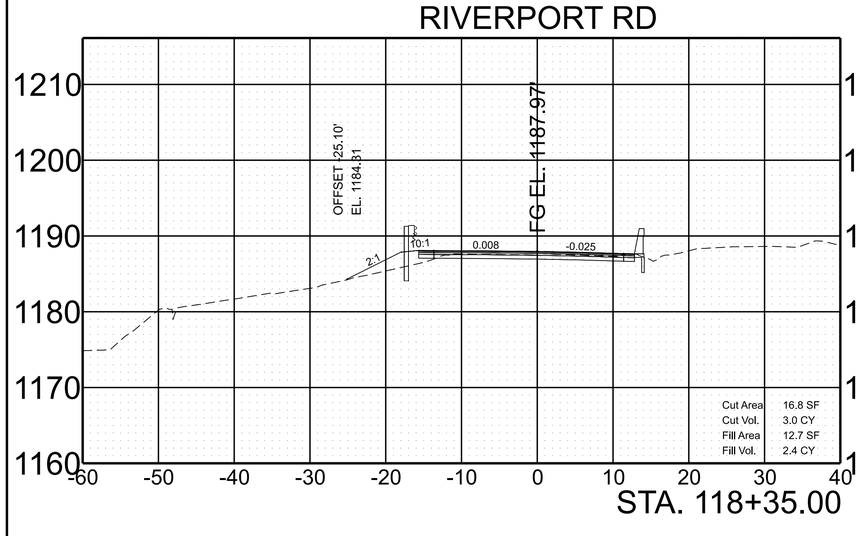
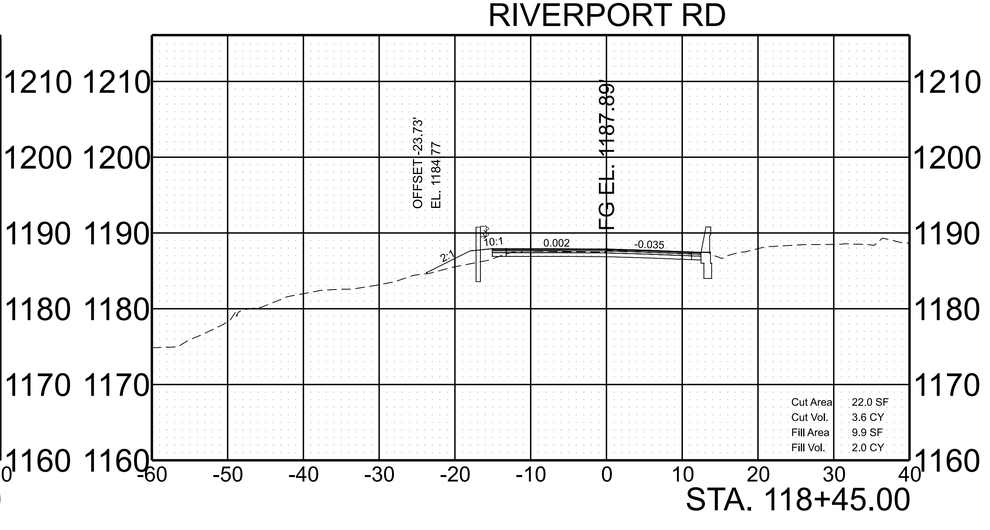
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	173
PIH	2026	82956-3594-04	175
PS&E	2026	82956-3594-04	175

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.









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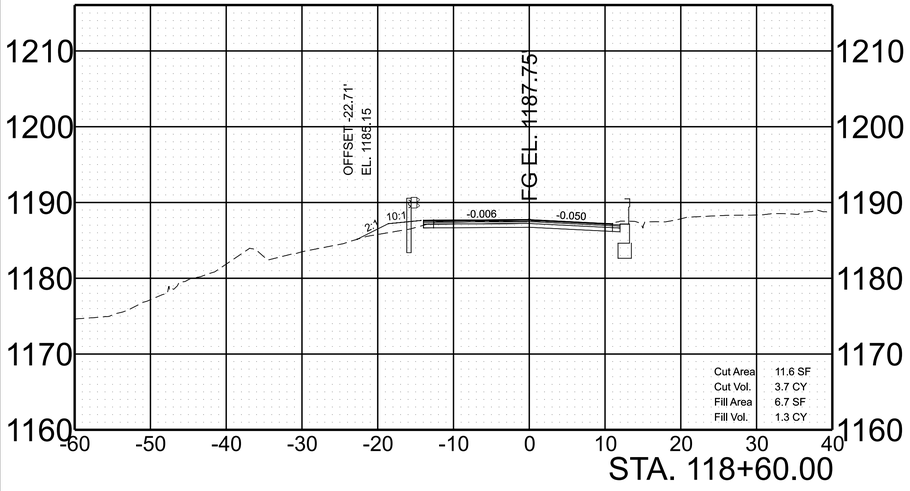
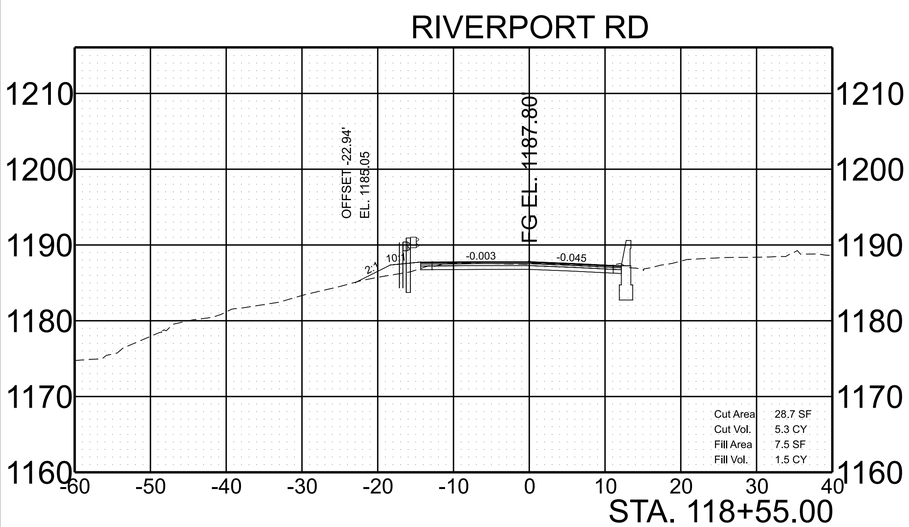
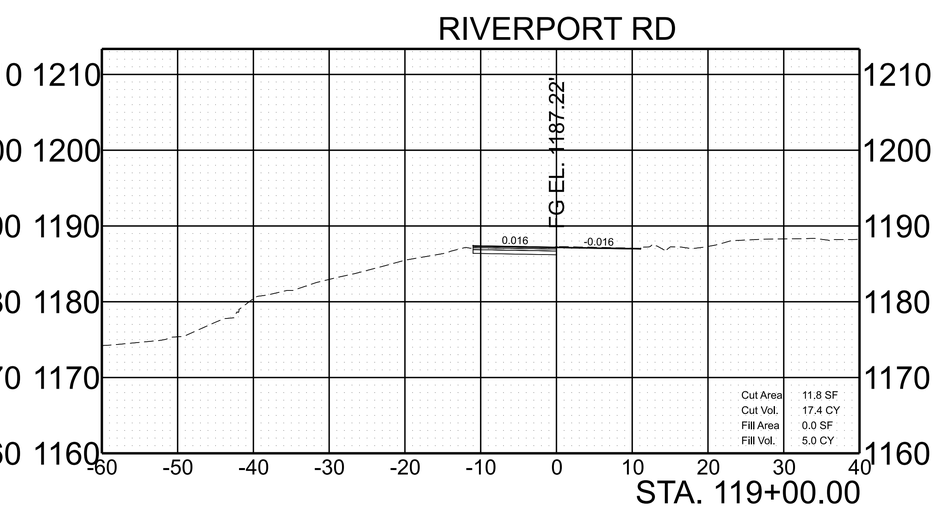
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	174
PIH	2026	82956-3594-04	176
PS&E	2026	82956-3594-04	176

REV. 07-07-26:
ADDED EARTHWORK TO CROSS-SECTIONS.







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PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T1
PIH	2026	82956-3594-04	T1
PS&E	2026	82956-3594-04	T1

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE REGIONAL TRAFFIC ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

   IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   a. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE
DROP-OFF NOTES
FOR
TRAFFIC CONTROL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T2
PIH	2026	82956-3594-04	T2
PS&E	2026	82956-3594-04	T2

REV. 07-07-26:
ADDED ADDITIONAL TRAFFIC CONTROL NOTES.

TRAFFIC CONTROL NOTES

THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY.
OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

ALL CONSTRUCTION SIGNS ON THE PROJECT SHALL BE COVERED WHEN WORK WILL NOT BE AFFECTING TRAFFIC. COST OF COVERING/UNCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE TDOT MANAGER.

TRAFFIC CONTROL PHASING

1. INSTALL TEMPORARY TRAFFIC CONTROL SIGNAGE AND DEVICES AT PROJECT LIMITS.
2. INSTALL HAUL ROADS.
3. CONSTRUCT MEADOW PARK LANE FROM STA. 10+00.00 TO STA. 35+75.50. MAINTAIN ACCESS TO FIRE TRAINING CENTER.
4. CONSTRUCT ROUNDABOUT
5. INSTALL TEMPORARY TRAFFIC SIGNAL SYSTEM FOR RIVERPORT ROAD.
6. CONSTRUCT WIDENED PORTION OF RIVERPORT ROAD WITH ONE WAY TEMP SIGNAL.
7. CONSTRUCT RETAINING WALL PORTION OF RIVERPORT ROAD WITH ONE WAY SIGNAL.
8. CONSTRUCT BRIDGES AND INTERSECTION AT RIVERPORT ROAD.
9. CONSTRUCT REMAINDER OF MEADOW PARK LANE.
10. REMOVE HAUL ROADS.
11. APPLY FINAL PAVING, STRIPING, AND SIGNING.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	TEMPORARY BARRICADE (TYPE III)
	SIGN (CONSTRUCTION)
	WORK ZONE
	CHANGEABLE MESSAGE SIGN
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	TRAFFIC FLOW
	FLEXIBLE DRUM
	TEMPORARY CRASH CUSHION

TABULATED TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
712-01	TRAFFIC CONTROL	LS	1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3100
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	6
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
712-04.50	BARRIER RAIL DELINEATOR	EACH	40
712-05.01	WARNING LIGHTS (TYPE A)	EACH	100
712-06	SIGNS (CONSTRUCTION)	S.F.	513
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	400
712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	1800
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	3
730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1

712-06, SIGNS (CONSTRUCTION) TABULATION

MUTCD SIGN NO.	DESCRIPTION	SIZE L X W	S.F.	NO. REQ'D	ITEM NO. 712-06 S.F.
W20-1	ROAD WORK 500 FT	48" X 48"	16	2	32.0
W20-1	ROAD WORK 1000 FT	48" X 48"	16	4	64.0
W20-1	ROAD WORK 1/2 MILE	48" X 48"	16	4	64.0
W20-1	ROAD WORK 1 MILE	48" X 48"	16	2	32.0
W20-4	ONE LANE ROAD 1500 FT	48" X 48"	16	2	32.0
G20-1	ROAD WORK NEXT X MILES	64" X 24"	11	4	44.0
G20-2	END ROAD WORK	48" X 24"	8	4	32.0
W3-3	SIGNAL AHEAD	48" X 48"	16	2	32.0
W3-4	BE PREPARED TO STOP	48" X 48"	16	2	32.0
R10-6(MOD)	STAY IN LANE TO EXTEND GREEN	30" X 42"	9	2	18.0
R10-6(MOD)	STOP HERE ON RED	24" X 36"	6	2	12.0
W20-7	FLAGGER	36" X 36"	9	2	18.0
W16-2P	1000 FEET	24" X 18"	3	2	6.0
R11-2	ROAD CLOSED	48" X 30"	10	4	40.0
R11-4	ROAD CLOSED TO THRU TRAFFIC	48" X 30"	10	1	10.0
W20-3F	ROAD CLOSED	36" X 36"	9	3	27.0
W1-4R	REVERSE CURVE	36" X 36"	9	2	18.0
TOTAL					**513.0**

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7/7/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES, LEGEND AND TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	T3

N

105

110

70

120

25

MEADOW PARK LANE

RIVERPORT ROAD

RIVERPORT ROAD

500'

500'

500'

1600'

500'

① END ROAD WORK
G20-2
(48"X24")

② ROAD WORK 500 FT
W20-1
(48"X48")

② ROAD WORK 500 FT
W20-1
(48"X48")

③ ROAD WORK 1000 FT
W20-1
(48"X48")

④ ROAD WORK 1/2 MILE
W20-1
(48"X48")

① END ROAD WORK
G20-2
(48"X24")

END R.O.W. PROJECT NO. 82956-2594-04
STA. 74+59.91 MEADOW PARK LANE
N 817230.0859 E 2978747.9999

STA. 74+59.91 MEADOW PARK LANE ≡
STA. 115+13.00 RIVERPORT ROAD
N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04
STA. 74+35.91 MEADOW PARK LANE
N 817211.4044 E 2978732.9311

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COMMERCE
No. 136719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIVERPORT ROAD GENERAL TRAFFIC CONTROL

STA. 101+00.00 TO STA. 125+00.00
SCALE: 1" = 200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T3
PIH	2026	82956-3594-04	T3
PS&E	2026	82956-3594-04	T4

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00	PARK MEADOW PLACE =	
STA. 10+00.00	MEADOW PARK LANE =	
STA. 92+00.00	SPRING MEADOW COURT	
N 811689.4126 E 2979062.6905		

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

LIMIT OF CONST. STA. 91+00.00
SEE SHEET 12 FOR PROFILE

LIMIT OF CONST. STA. 1+00.00
SEE SHEET 13 FOR PROFILE

MATCH LINE STA. 15+00
SEE SHEET NO. T5

WTL-4
WTL-4
WTL-3

MEADOW PARK LANE
N20°17'44"W
N29°12'23"W
N09°55'55"W
N01°59'45"W
N26°04'05"W
N13°16'13"W
PARK MEADOW PLACE

N89°59'36"E 3,000.00'

PROP. CURB RAMP
PER CR-20

ASP
C&G
C&C
Gr.

STA. 1+00.00
N: 811214.4116
E: 2979201.8842

ROAD CLOSED — R11-2 (48" X 30")

TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS

ROAD CLOSED 250 FT — W20-3F (36" x 36")

④ ROAD WORK 1 MILE	③ ROAD WORK 1/2 MILE	② ROAD WORK 1000 FT	① ROAD WORK NEXT 1/4 MILE	⑤ END ROAD WORK
W20-1 (48"X48")	W20-1 (48"X48")	W20-1 (48"X48")	G20-1 (64"X24")	G20-2 (48"X24")

STA. 97+53.30	SPRING MEADOW COURT =	
STA. 137+96.11	S.R. 126 (S. WILCOX DRIVE)	
N 811743.9042 E 2978612.8457		

3,096.36'N

SPRING MEADOW COURT

ROAD CLOSED TO THRU TRAFFIC — R11-4 (36" x 24")

SEE OPPOSITE APPROACH FOR SIGNING TYPICAL

S.R. 126 (S. WILCOX DRIVE)

LIMIT OF CONST. STA. 134+70.00

LIMIT OF CONST. STA. 140+50.00

500'
2600'
1600'
1000'

5 10 15 95 135 140

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 5+00 TO STA. 15+00
SCALE: 1" = 50'

PHASE 1

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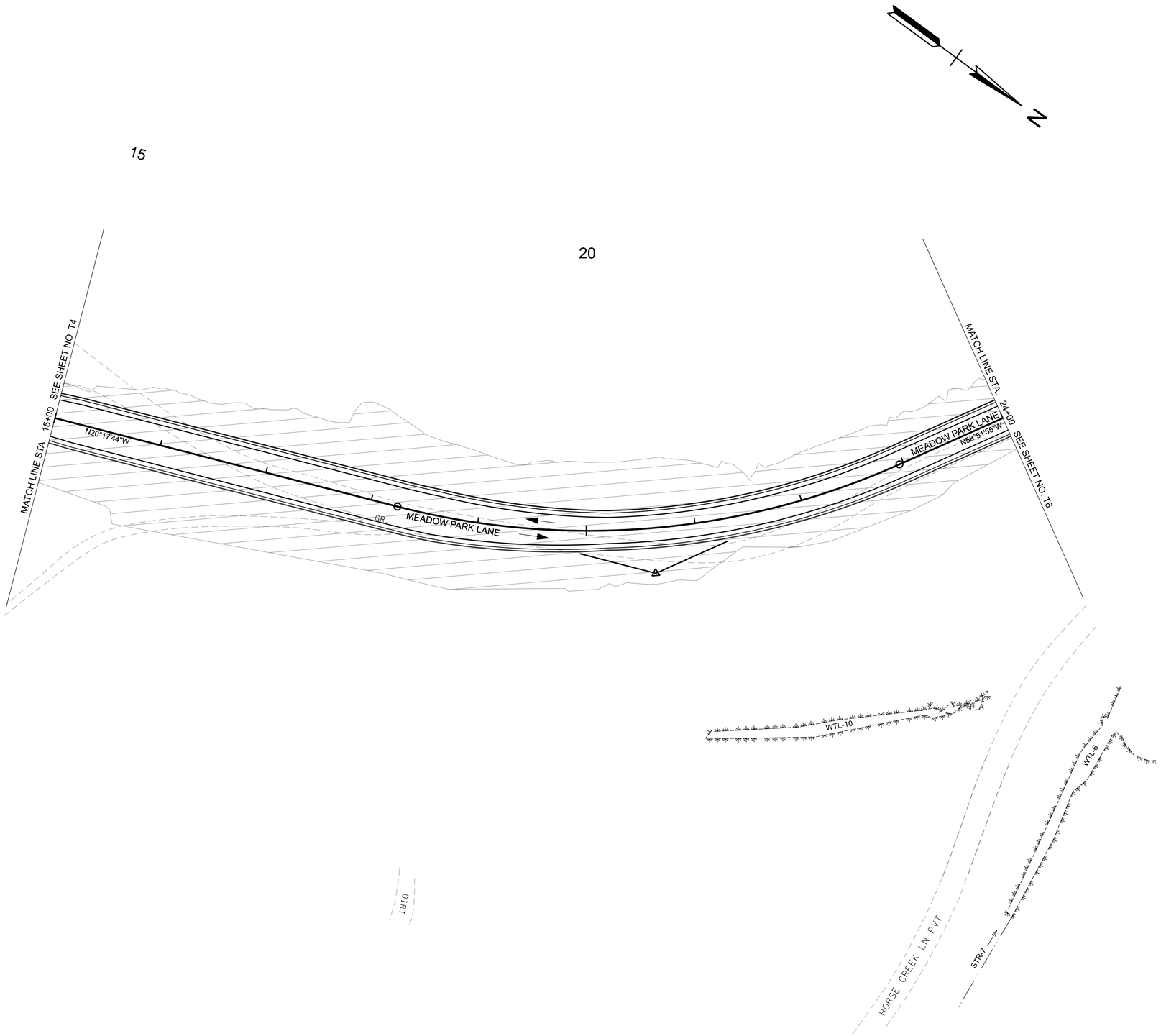
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T4
PIH	2026	82956-3594-04	T4
PS&E	2026	82956-3594-04	T5



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STATE OF TENNESSEE
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TRAFFIC CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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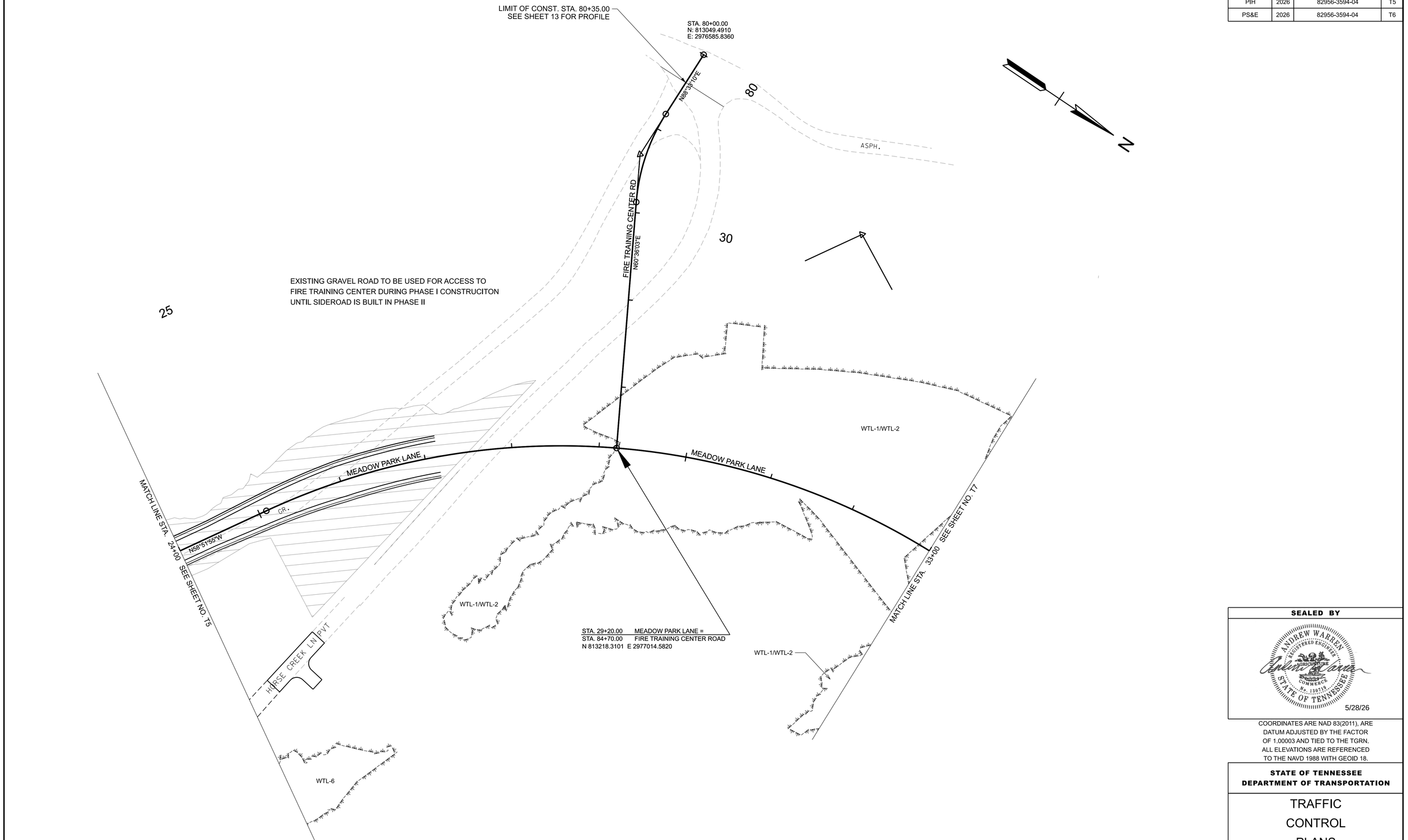
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T5
PIH	2026	82956-3594-04	T5
PS&E	2026	82956-3594-04	T6



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TRAFFIC CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

PHASE 1

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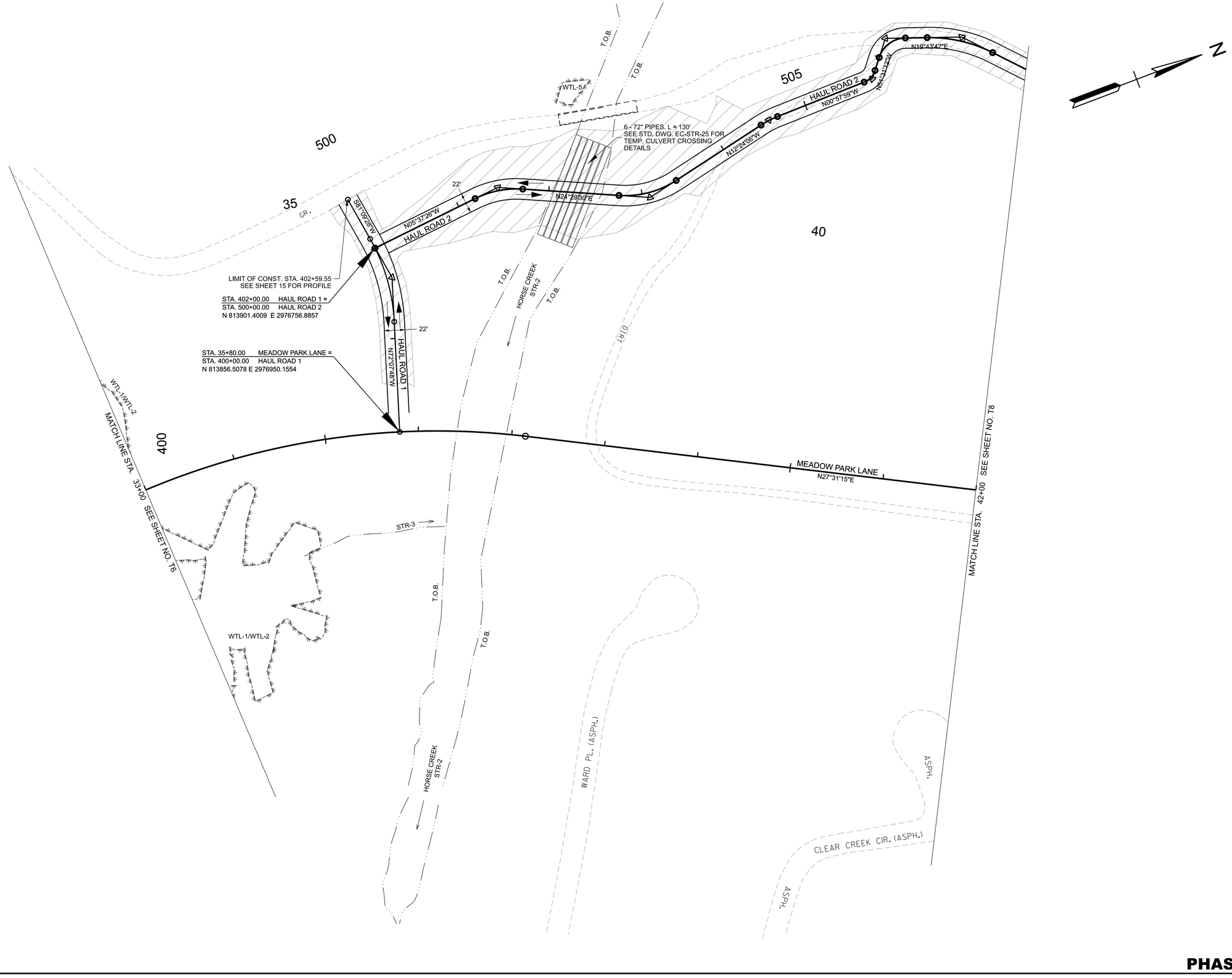
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T6
PIH	2026	82956-3594-04	T6
PS&E	2026	82956-3594-04	T7



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

PHASE 1

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T7
PIH	2026	82956-3594-04	T7
PS&E	2026	82956-3594-04	T8

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

PHASE 1

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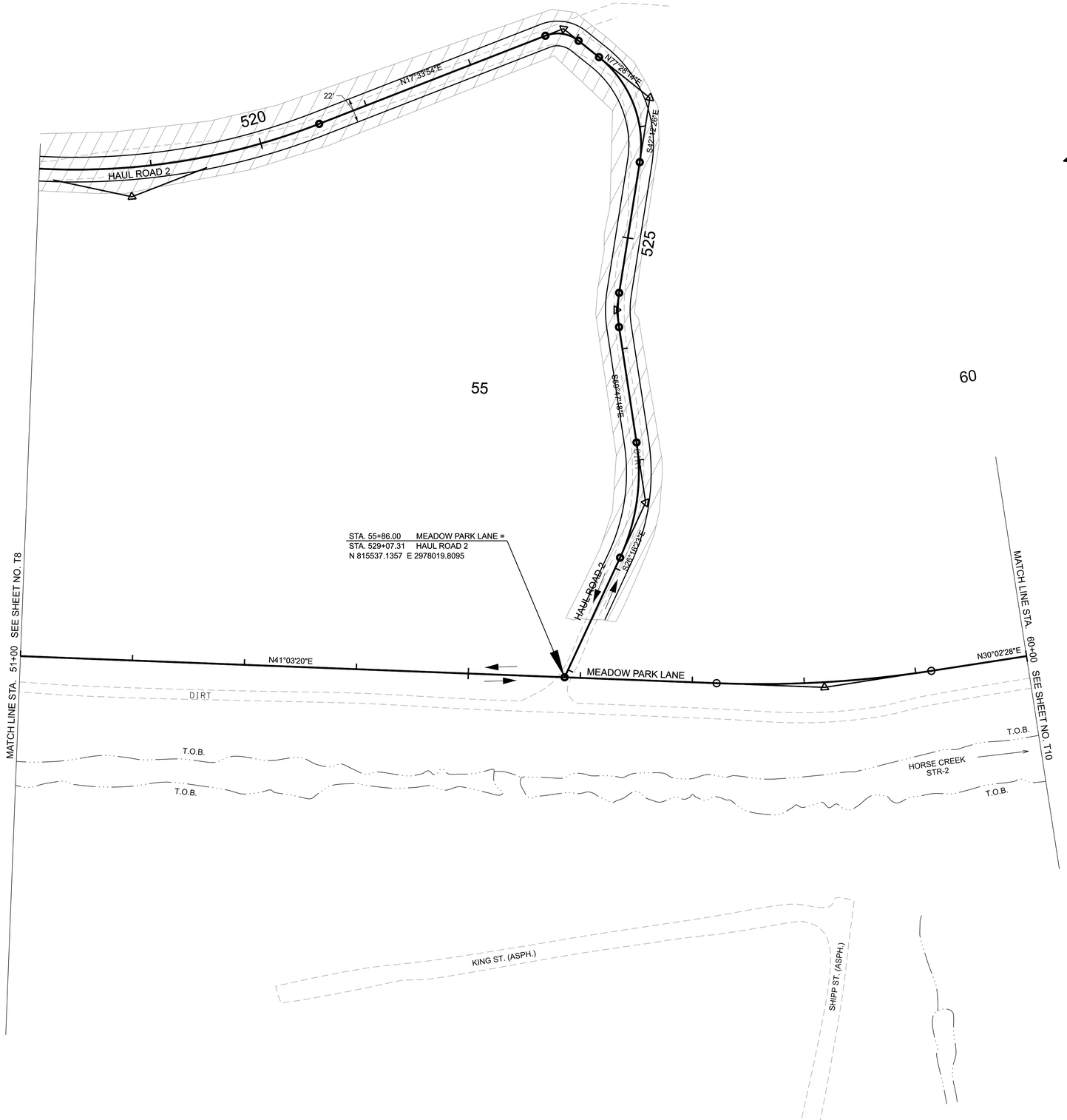
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T8
PIH	2026	82956-3594-04	T8
PS&E	2026	82956-3594-04	T9



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TRAFFIC CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

PHASE 1

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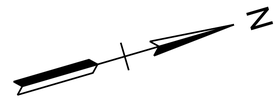
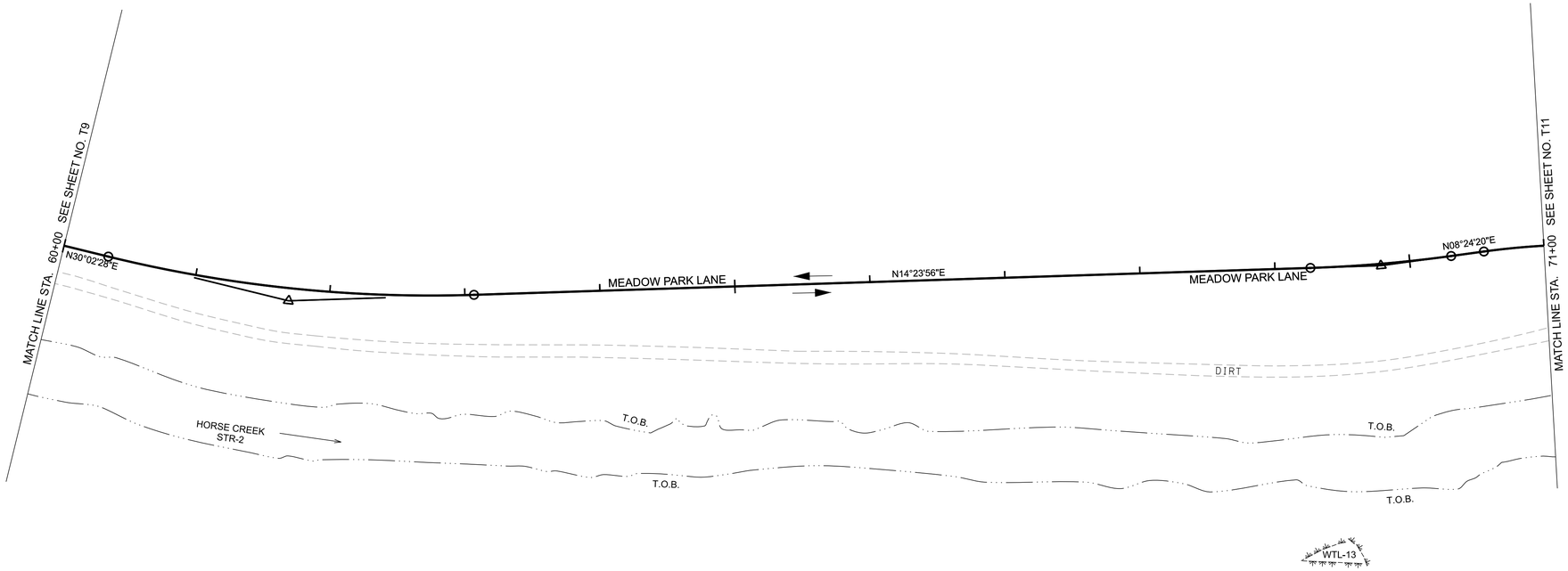
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T9
PIH	2026	82956-3594-04	T9
PS&E	2026	82956-3594-04	T10



60

65

70



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TRAFFIC CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

PHASE 1

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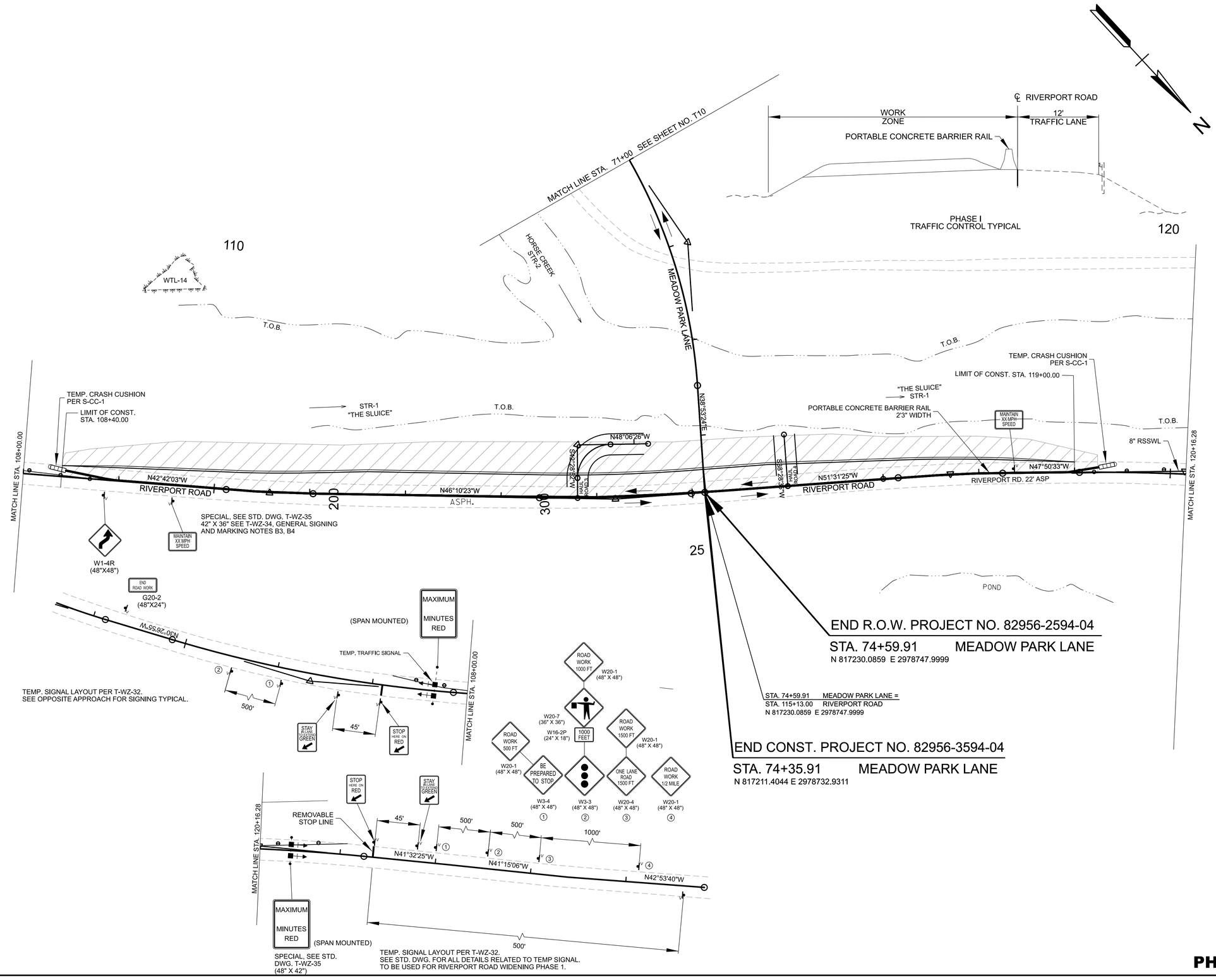
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T10
PIH	2026	82956-3594-04	T10
PS&E	2026	82956-3594-04	T11



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T11
PIH	2026	82956-3594-04	T11
PS&E	2026	82956-3594-04	T12

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2979062.6905

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

LIMIT OF CONST. STA. 91+00.00
SEE SHEET 12 FOR PROFILE

LIMIT OF CONST. STA. 1+00.00
SEE SHEET 13 FOR PROFILE

MATCH LINE STA. 15+00
SEE SHEET NO. T13

MEADOW PARK LANE

PARK MEADOW PLACE

N13°16'13"W
N26°04'05"W
N01°59'45"W
N09°55'55"W
N29°12'23"W
N20°17'44"W

ROAD CLOSED TO THRU TRAFFIC
R11-4
(36" x 24")

STA. 1+00.00
N: 812144.116
E: 2978201.8842

STA. 11+00.00
N: 812144.116
E: 2978201.8842

END GRADING
BEGIN RESURFACING
STA. 94+31.00

SPRING MEADOW COURT
N83°56'56"E

STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457

④ ROAD WORK 1 MILE	③ ROAD WORK 1/2 MILE	② ROAD WORK 1000 FT	① ROAD WORK NEXT 1/4 MILE
W20-1 (48"X48")	W20-1 (48"X48")	W20-1 (48"X48")	G20-1 (64"X24")

⑤ END ROAD WORK
G20-2
(48"X24")

500'
2600'
1600'
1000'

LIMIT OF CONST.
STA. 134+70.00

LIMIT OF CONST.
STA. 140+50.00

S.R. 126 (S. WILCOX DRIVE)

SEE OPPOSITE APPROACH FOR SIGNING TYPICAL

ASP
C&G
ST

5 10 15 95 135 140

N

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ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 5+00 TO STA. 15+00
SCALE: 1" = 50'

PHASE 2

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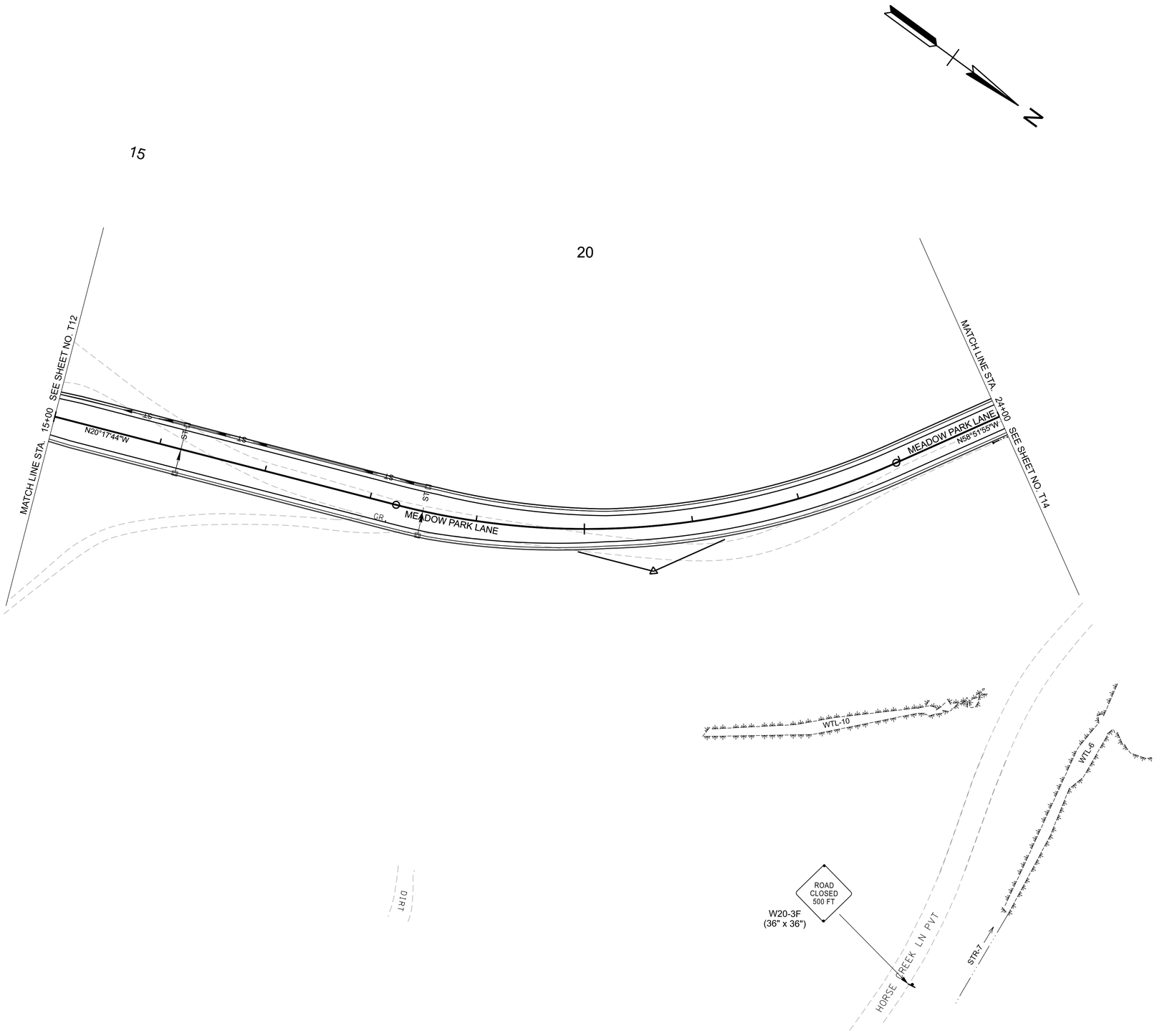
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T12
PIH	2026	82956-3594-04	T12
PS&E	2026	82956-3594-04	T13



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ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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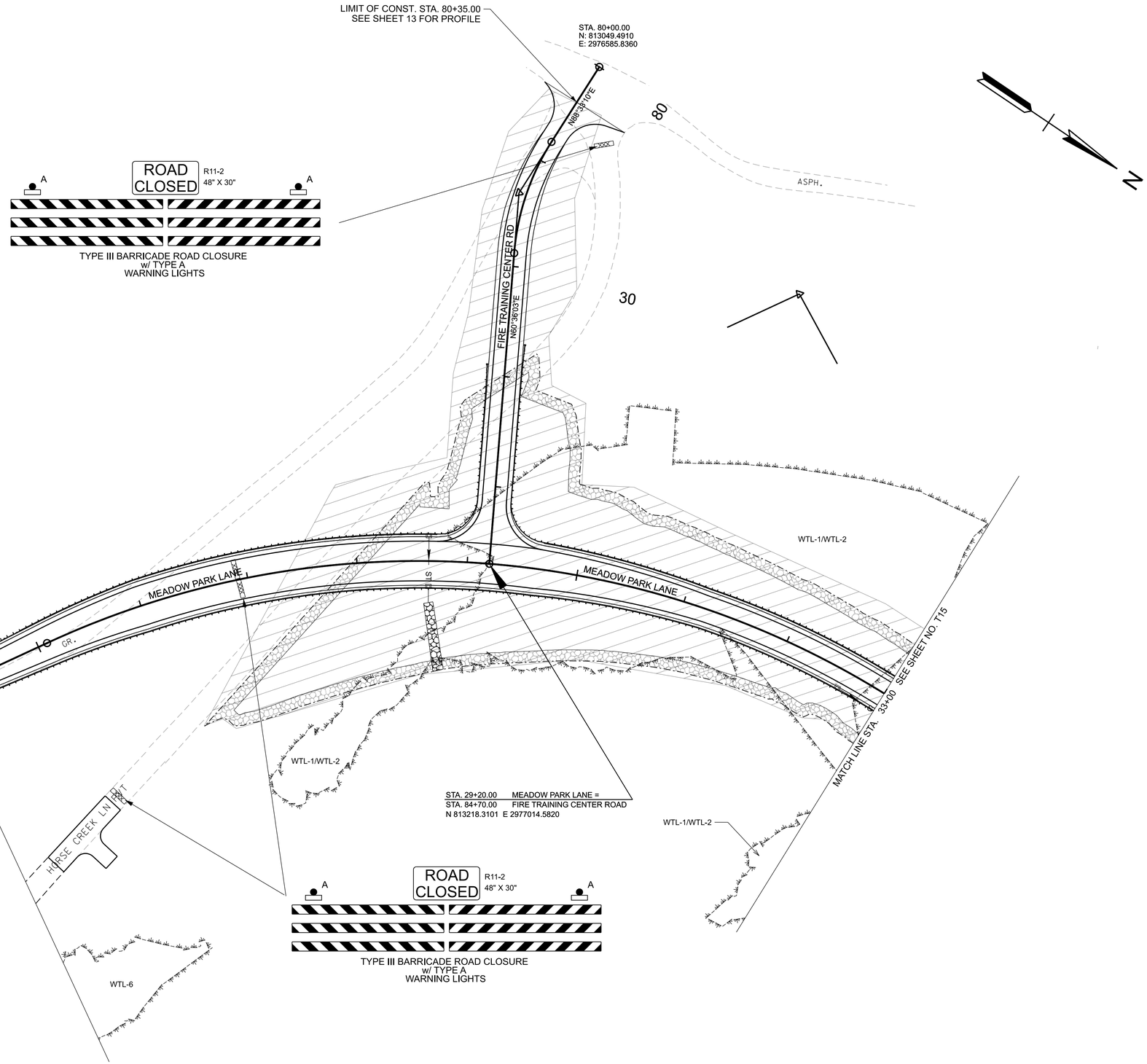
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T13
PIH	2026	82956-3594-04	T13
PS&E	2026	82956-3594-04	T14



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ANDREW WARREN
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MUNICIPAL PUBLIC COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

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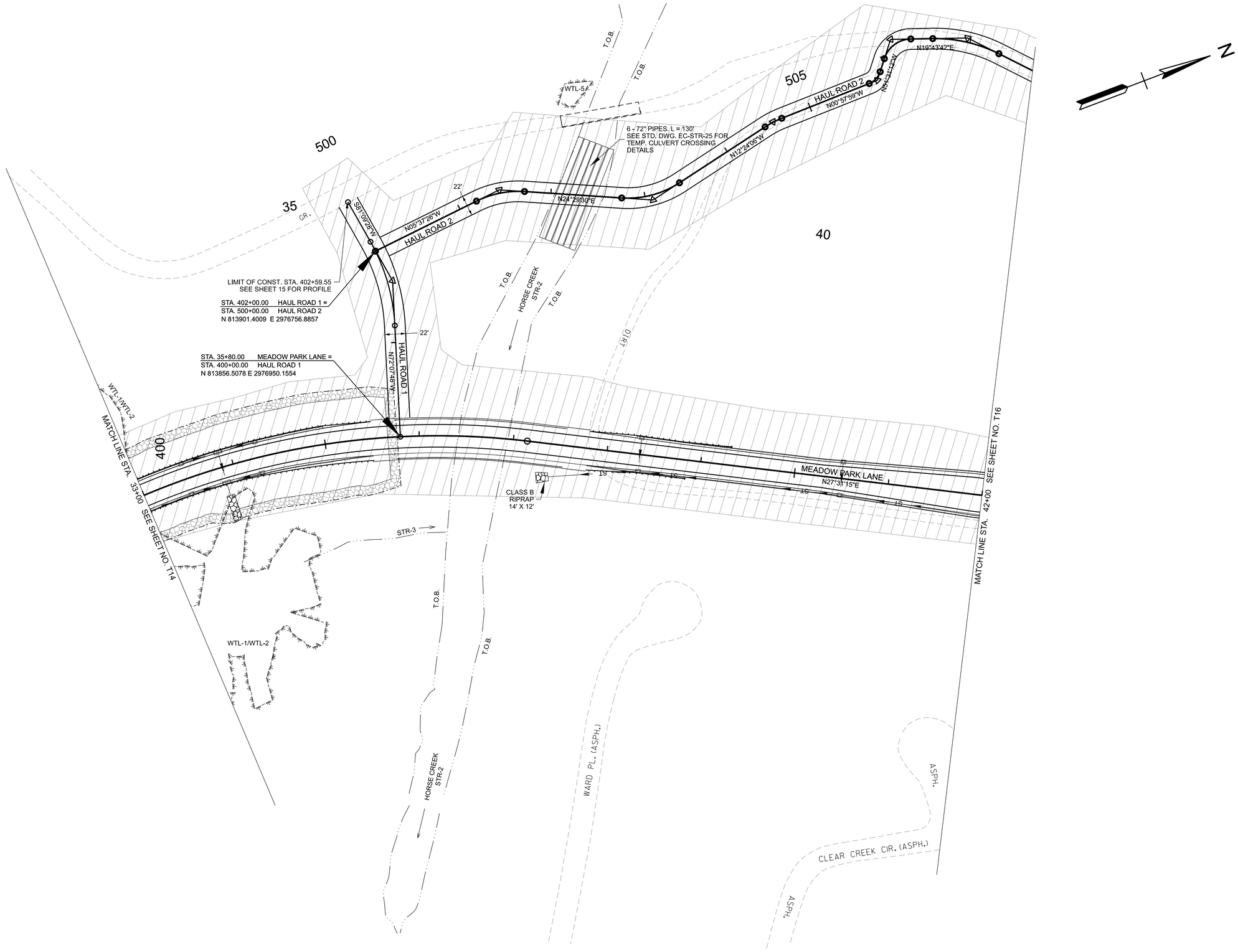
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T14
PIH	2026	82956-3594-04	T14
PS&E	2026	82956-3594-04	T15



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No. 130719
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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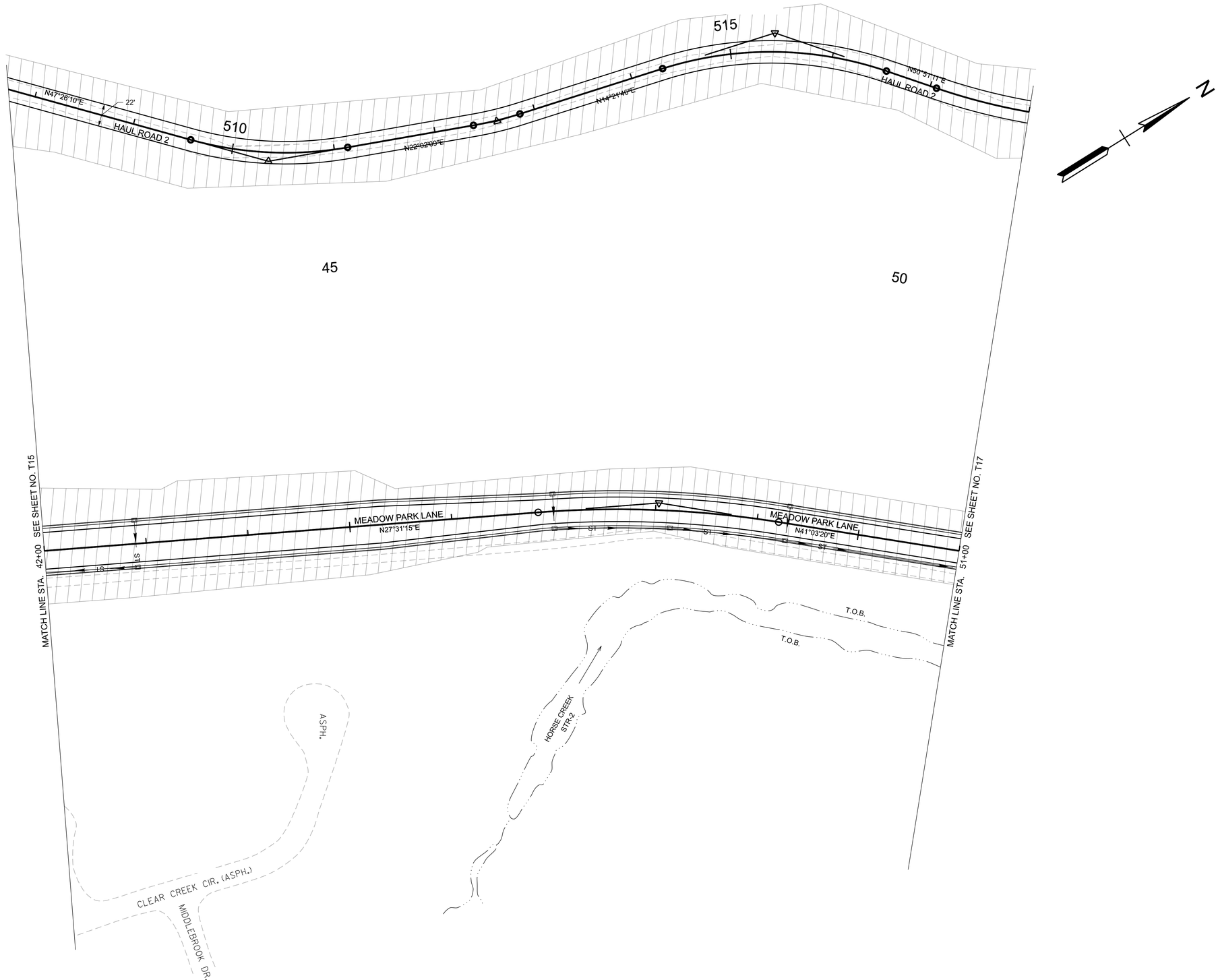
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T15
PIH	2026	82956-3594-04	T15
PS&E	2026	82956-3594-04	T16



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ANDREW WARREN
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AGRICULTURE
COMMERCE
No. 136719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

PHASE 2

5/21/2026 10:13:57 AM
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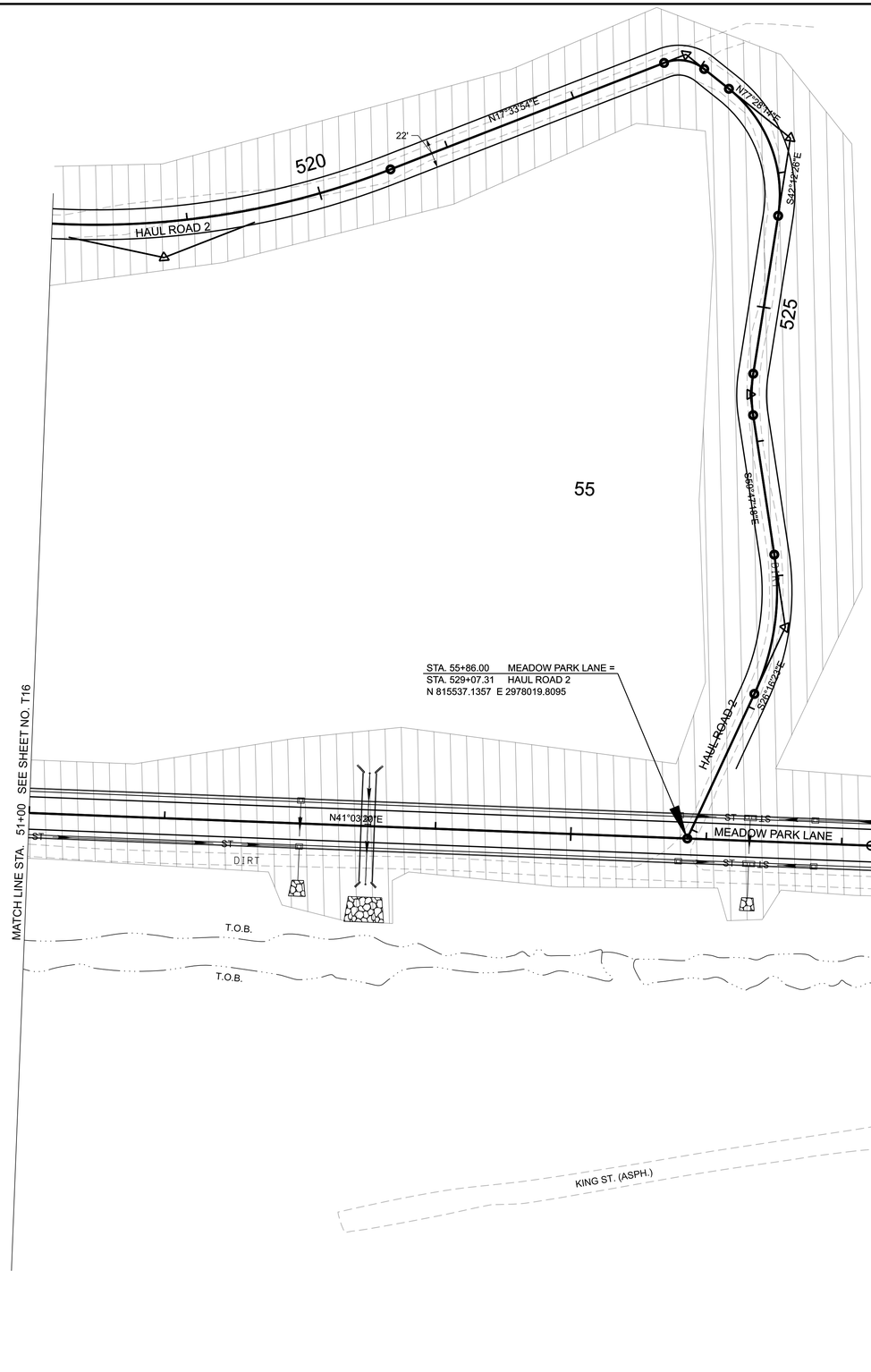
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T16
PIH	2026	82956-3594-04	T16
PS&E	2026	82956-3594-04	T17



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No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

PHASE 2

5/21/2026 10:13:59 AM
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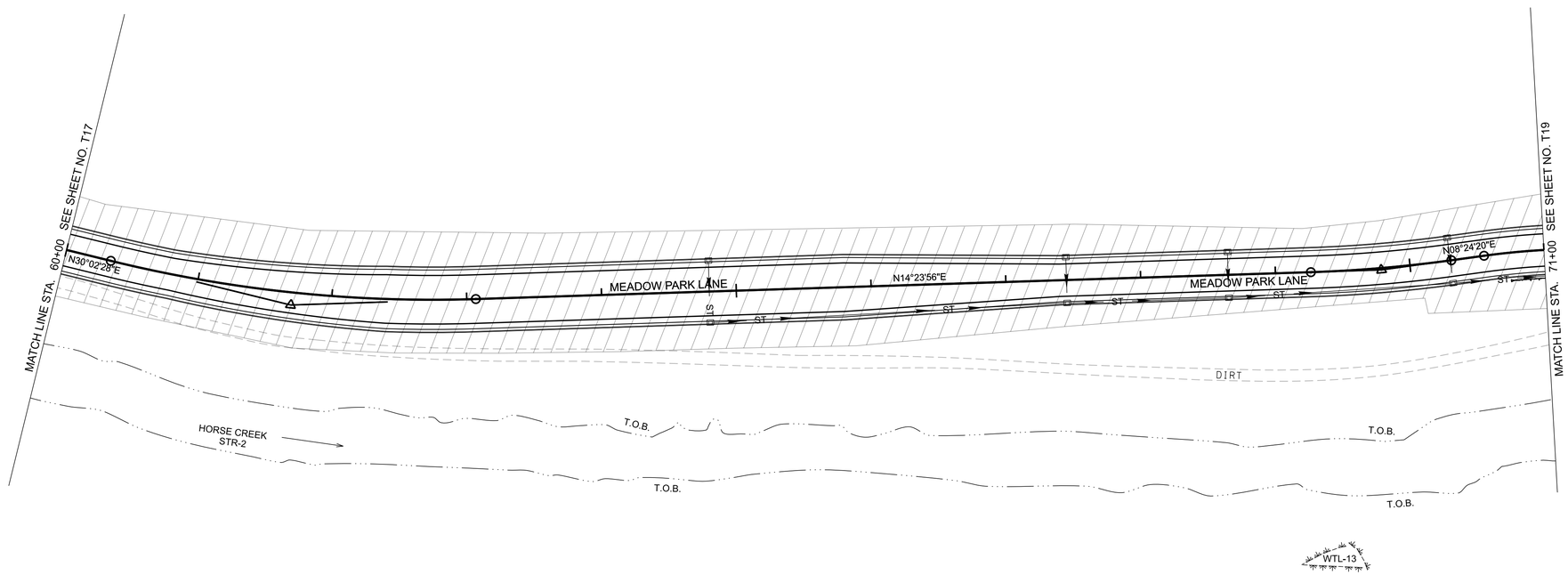
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T17
PIH	2026	82956-3594-04	T17
PS&E	2026	82956-3594-04	T18



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AGRICULTURE
COMMERCE
No. 130718
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

PHASE 2

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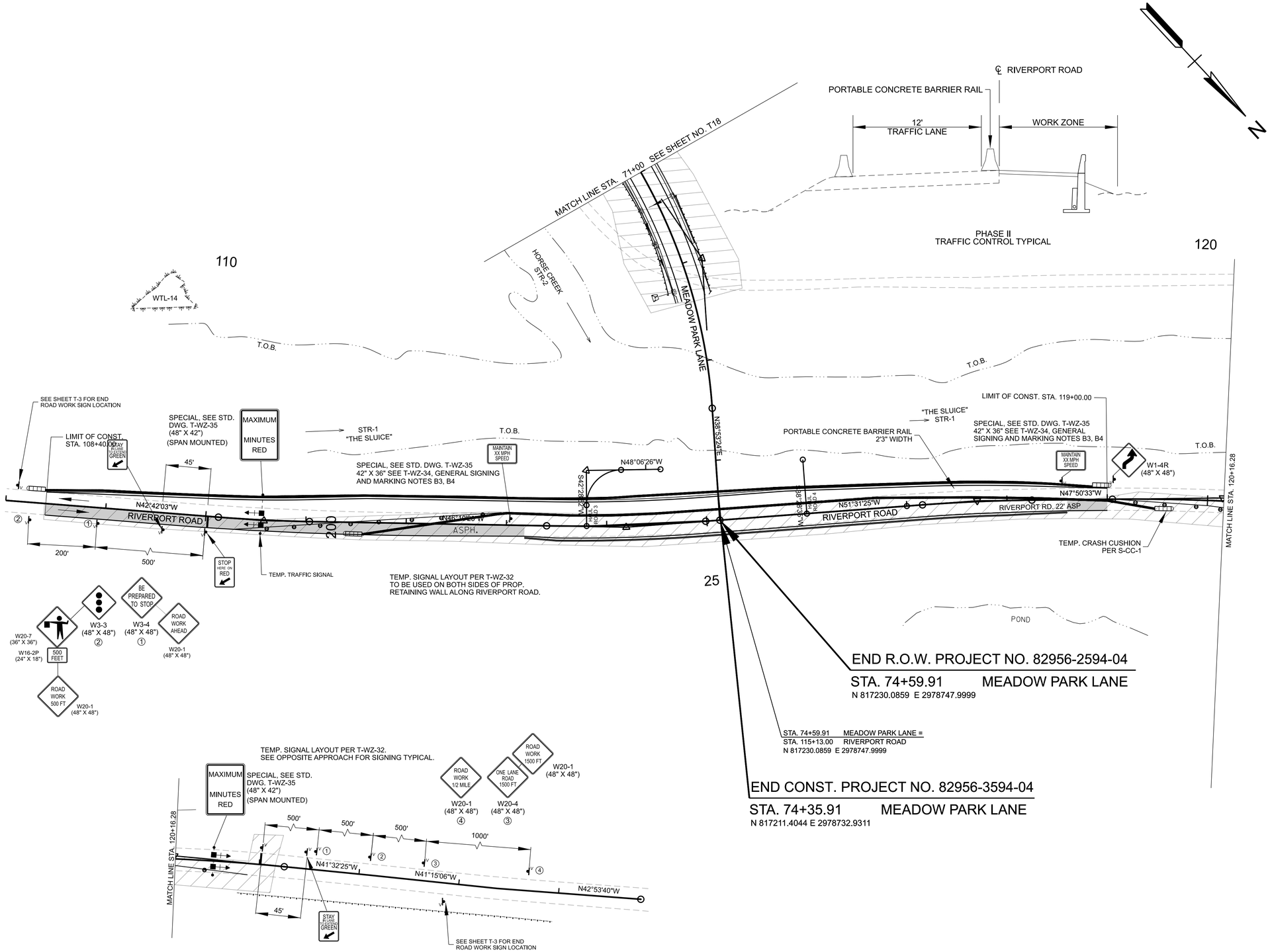
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T18
PIH	2026	82956-3594-04	T18
PS&E	2026	82956-3594-04	T19



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ANDREW WARREN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 130719 STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

PHASE 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T19
PIH	2026	82956-3594-04	T19
PS&E	2026	82956-3594-04	T20

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2979062.6905

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

LIMIT OF CONST. STA. 91+00.00
SEE SHEET 12 FOR PROFILE

MATCH LINE STA. 15+00
SEE SHEET NO. T21

LIMIT OF CONST. STA. 1+00.00
SEE SHEET 13 FOR PROFILE

PARK MEADOW PLACE
N13°16'13"W
N26°04'05"W
N09°55'55"W
N01°59'45"W
N29°12'23"W
MEADOW PARK LANE
N20°17'44"W

ROAD CLOSED TO THRU TRAFFIC

PROP. CURB RAMP PER CR-20

END GRADING
BEGIN RESURFACING
STA. 94+31.00

STA. 1+00.00
N: 811714.4116
E: 2978201.8842

FLOWERBED
CURB
FLAG
ASPH.
C&G
CB-10
CB-11
CB-12
CB-13
ST
N21°32'39"E
N37°56'36"E
SPRING MEADOW COURT

STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457

④ ROAD WORK 1 MILE	③ ROAD WORK 1/2 MILE	② ROAD WORK 1000 FT	① ROAD WORK NEXT 1/4 MILE
W20-1 (48"X48")	W20-1 (48"X48")	W20-1 (48"X48")	G20-1 (64"X24")

⑤ END ROAD WORK
G20-2 (48"X24")

CONC.
LANDSCAPE

⑤ 500'
LIMIT OF CONST. STA. 134+70.00

④ 2600' ③ 1600' ② 1000' ①

SEE OPPOSITE APPROACH FOR SIGNING TYPICAL

S.R. 126 (S. WILCOX DRIVE)

LIMIT OF CONST. STA. 140+50.00

R11-4 (36" x 24")

15 5 10 95 135 140

N

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ANDREW WARREN
REGISTERED ENGINEER
PRINCIPAL
COMMERCE
No. 130715
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 5+00 TO STA. 15+00
SCALE: 1" = 50'

PHASE 3

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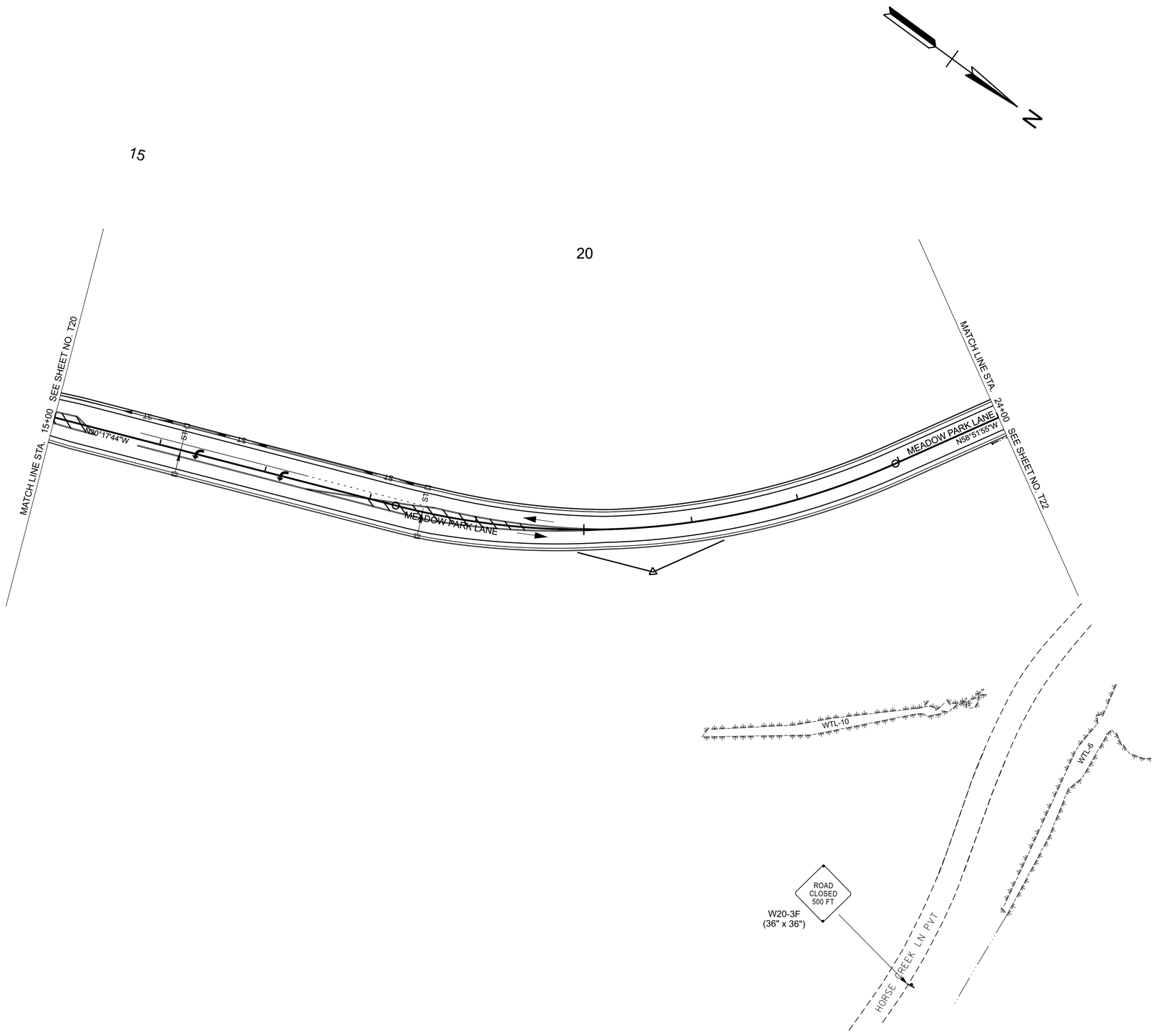
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T20
PIH	2026	82956-3594-04	T20
PS&E	2026	82956-3594-04	T21



PHASE 3

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ANDREW WARREN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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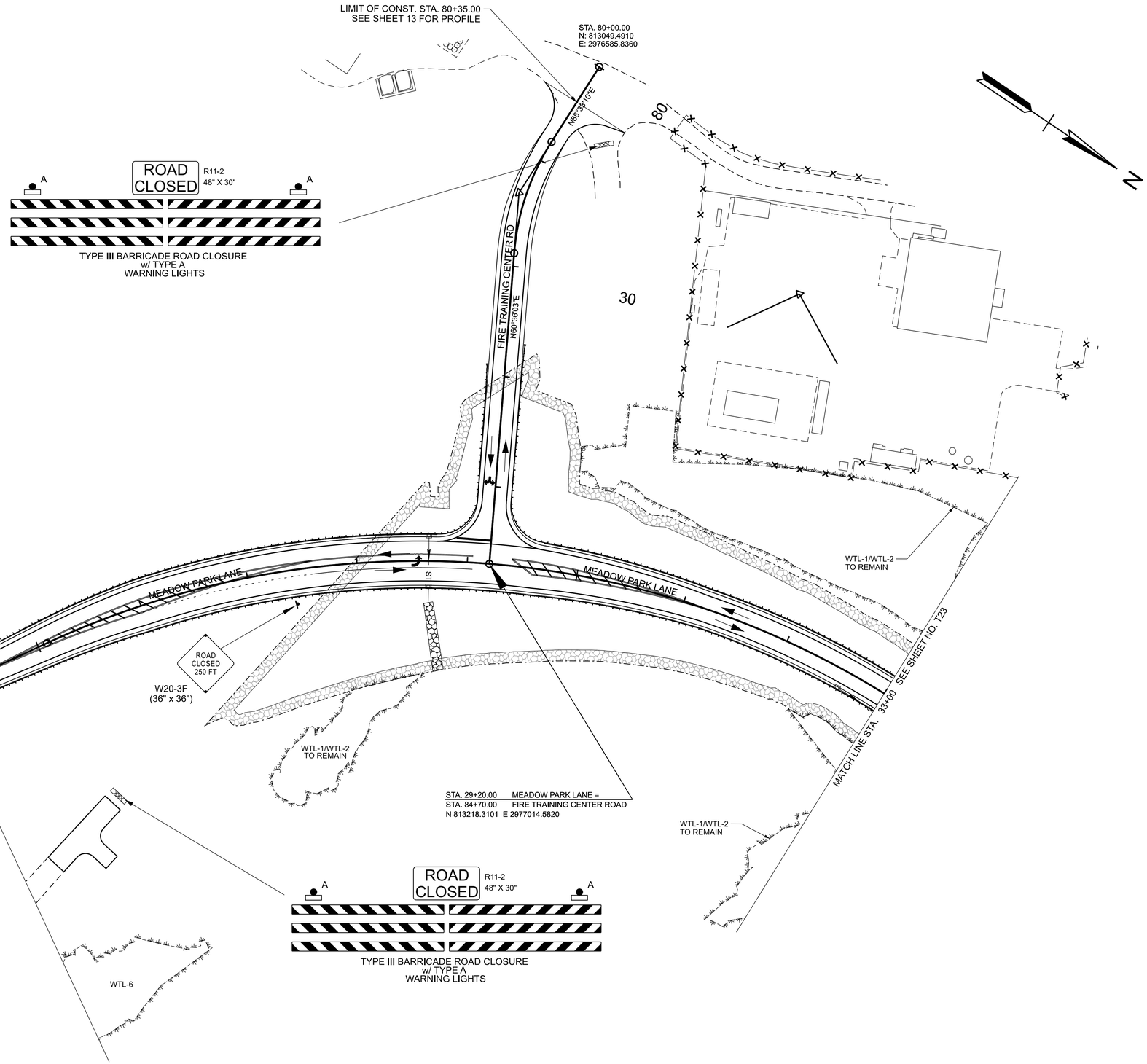
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T21
PIH	2026	82956-3594-04	T21
PS&E	2026	82956-3594-04	T22



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No. 130719
STATE OF TENNESSEE

5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

PHASE 3

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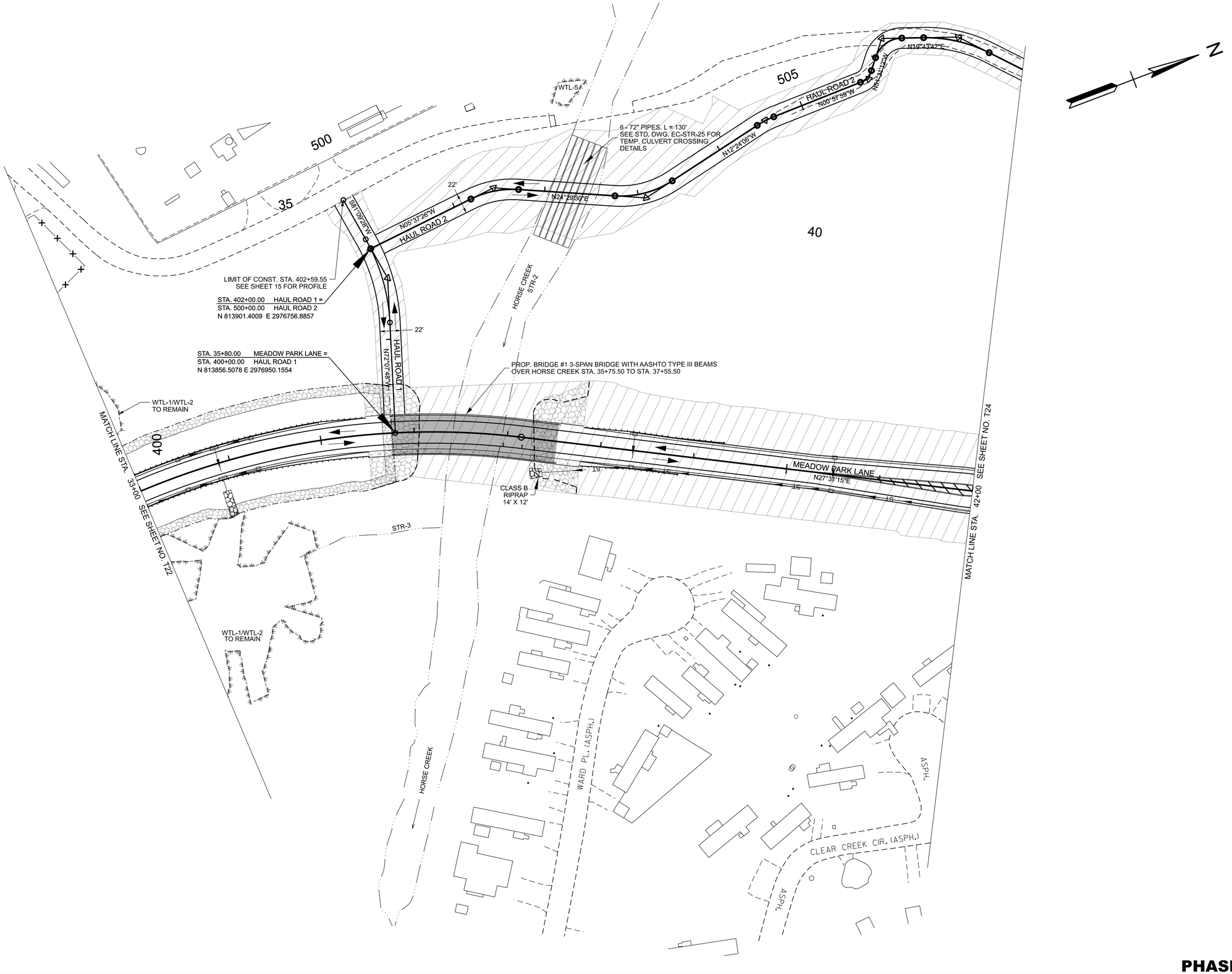
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T22
PIH	2026	82956-3594-04	T22
PS&E	2026	82956-3594-04	T23



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REGISTERED ENGINEER
LICENSE NO. 130719
STATE OF TENNESSEE
5/28/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

5/21/2026 10:14:43 AM
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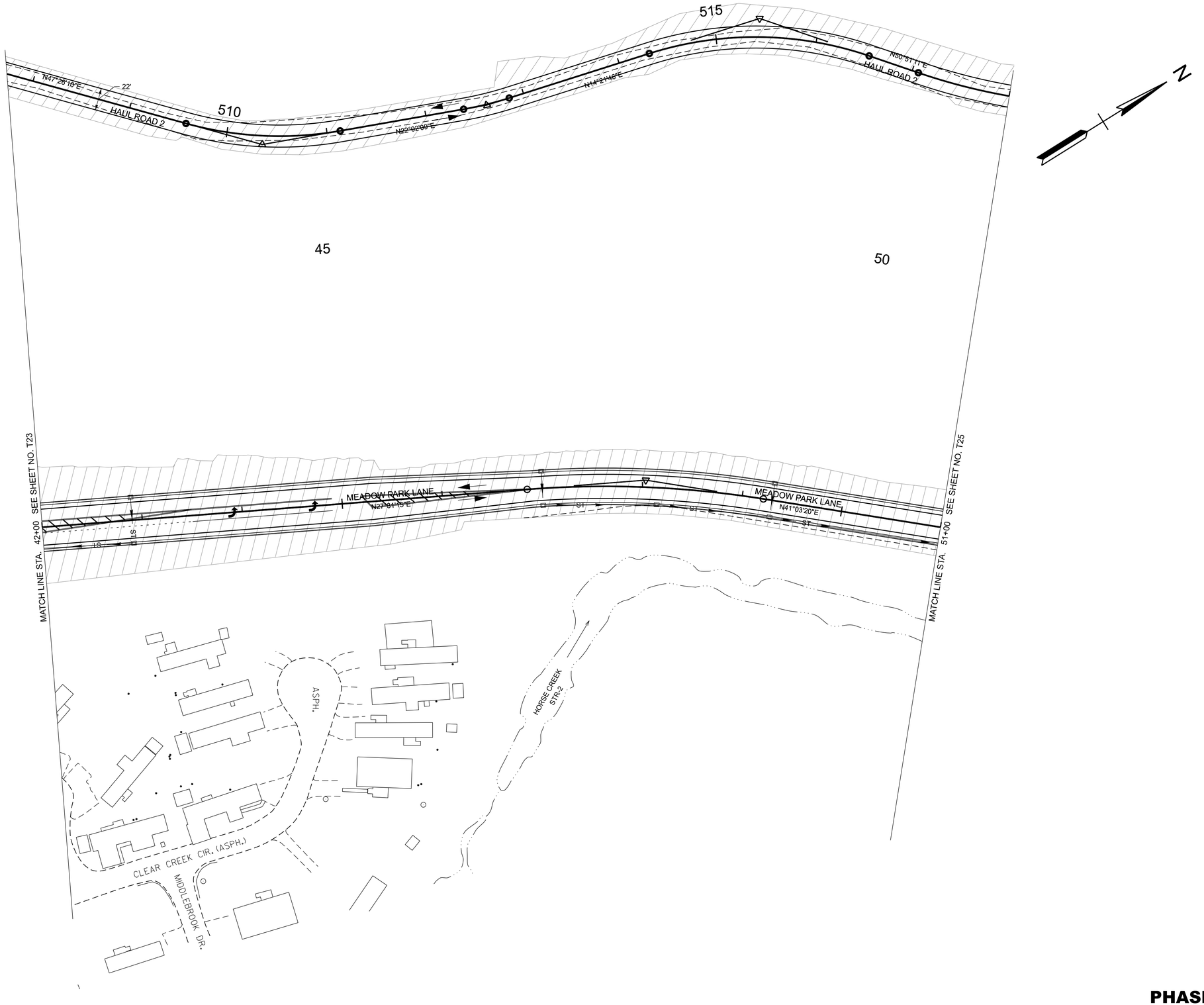
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T23
PIH	2026	82956-3594-04	T23
PS&E	2026	82956-3594-04	T24



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No. 130718
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

PHASE 3

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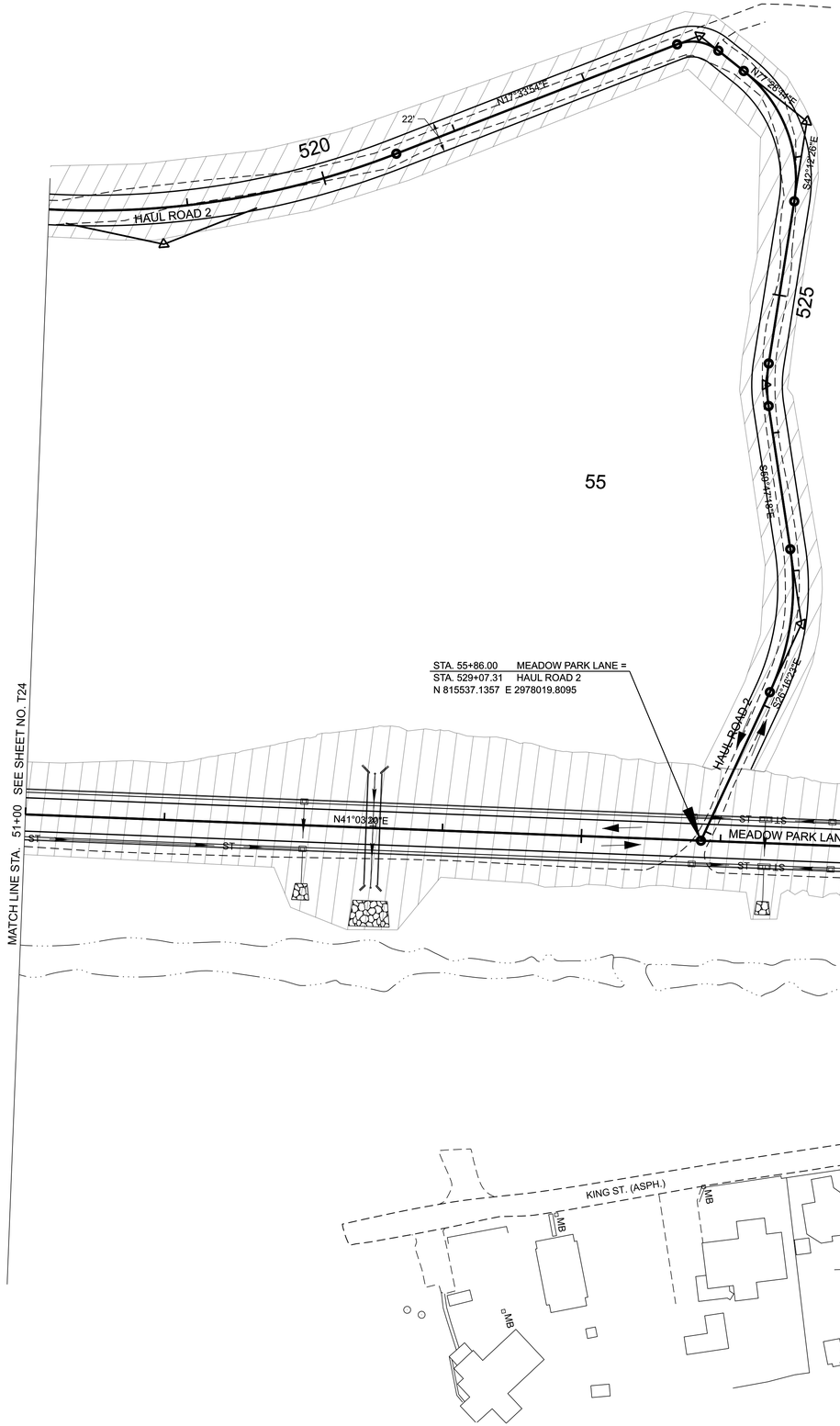
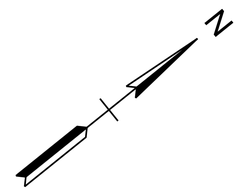
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T24
PIH	2026	82956-3594-04	T24
PS&E	2026	82956-3594-04	T25





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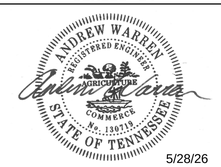

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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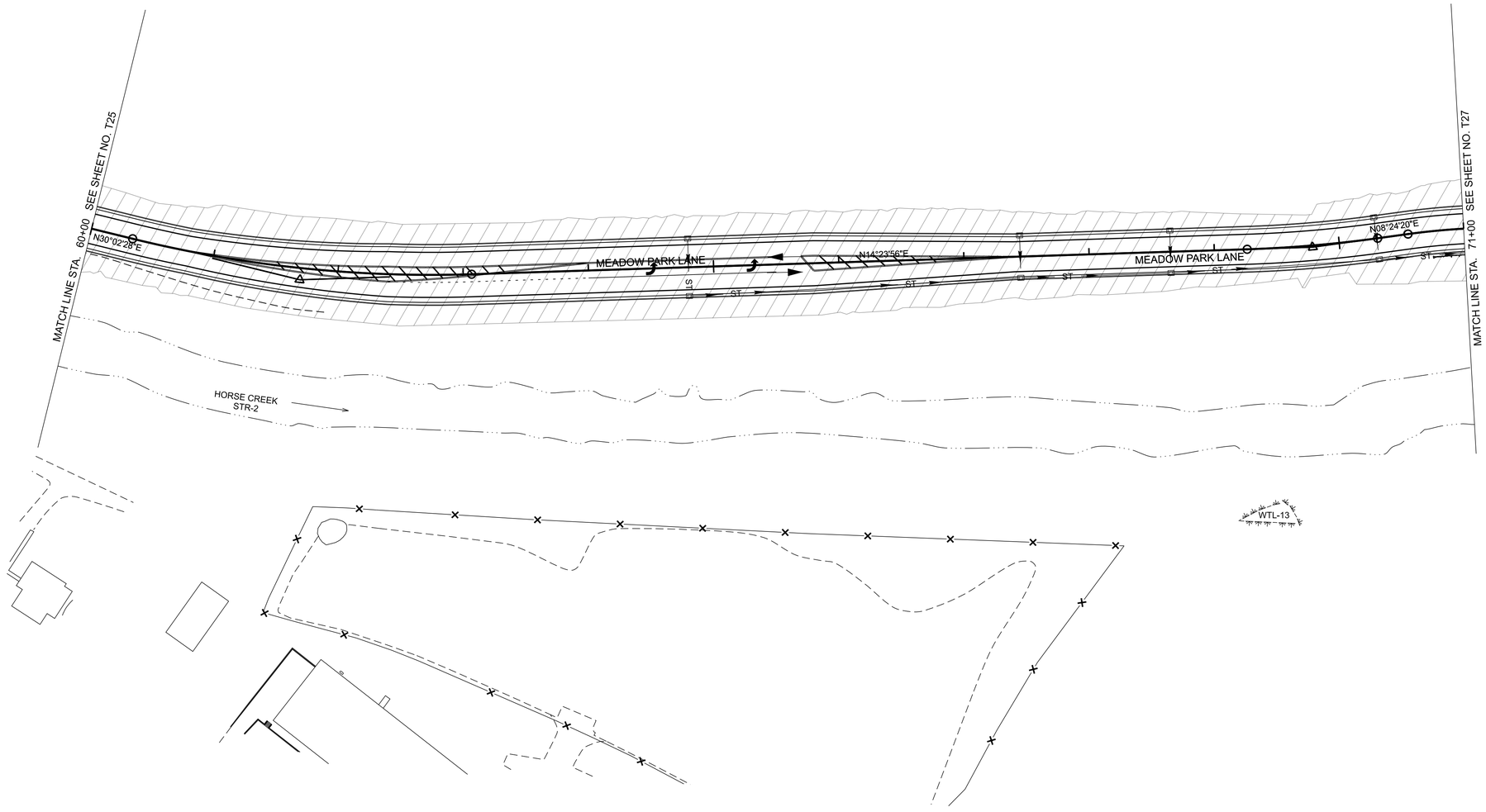
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T25
PIH	2026	82956-3594-04	T25
PS&E	2026	82956-3594-04	T26



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AGRICULTURE
COMMERCE
No. 130718
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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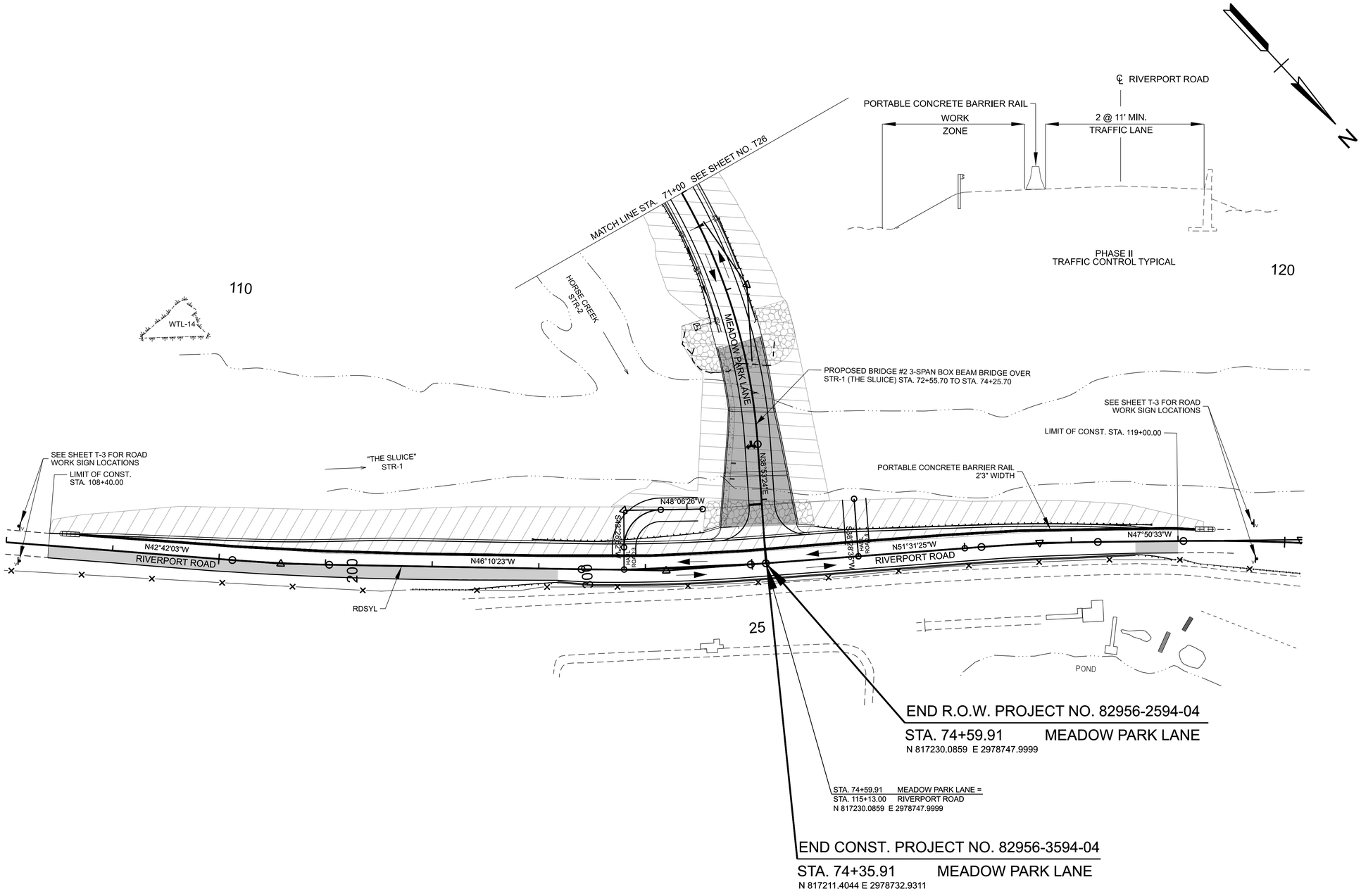
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	T26
PIH	2026	82956-3594-04	T26
PS&E	2026	82956-3594-04	T27



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REGISTERED ENGINEER
MERICUPUBS
COMMERCE
No. 130719
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

PHASE 3

5/21/2026 10:14:55 AM
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THIS DOCUMENT HAS BEGUN DIGITALLY SIGNED AND SEALED BY:

Kevin.Mcalister@bargedesign.com

Digitally signed by Kevin.Mcalister@bargedesign.com
DN: E=Kevin.Mcalister@bargedesign.com, CN=Kevin.Mcalister@bargedesign.com
Reason: I am the author of this document
Date: 2026.07.02 08:27:33-05'00'

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COMPANY NAME: BARGE DESIGN SOLUTIONS
ADDRESS: 615 3RD AVE S #700
NASHVILLE, TN 37210
CITY, STATE: NASHVILLE, TN
PE NAME, PE NUMBER: KEVIN MCALISTER, PE NO. 110079

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME (BRIDGE NO. 1)	SHEET NO.
SIGNATURE SHEET	STRUCTURE-SIGN1
INDEX OF BRIDGES AND ESTIMATED QUANTITIES	B-1
LAYOUT OF BRIDGE	U-101-78
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79
FOUNDATION DATA SHEET (1 OF 2)	U-101-80
FOUNDATION DATA SHEET (2 OF 2)	U-101-81
SUPERSTRUCTURE	U-101-82
SUPERSTRUCTURE DETAILS (1 OF 3)	U-101-83
SUPERSTRUCTURE DETAILS (2 OF 3)	U-101-84
SUPERSTRUCTURE DETAILS (3 OF 3)	U-101-85
SCREED PLAN	U-101-86
STAKEOUT PLAN	U-101-87
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 1	U-101-88
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 2	U-101-89
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 3	U-101-90
BEAM TABLES AND ESTIMATED QUANTITIES	U-101-91
ABUTMENT NO. 1	U-101-92
ABUTMENT NO. 1 DETAILS	U-101-93
ABUTMENT NO. 2	U-101-94
ABUTMENT NO. 2 DETAILS	U-101-95
ABUTMENT NO. 2 STEEL PILE DETAILS	U-101-95A
BENT NO. 1	U-101-96
BENT NO. 2	U-101-97
BENT NO. 1 AND NO. 2 DETAILS	U-101-98
FINAL FOUNDATION DATA	U-101-99
BILL OF STEEL	U-101-100

SHEET NAME (BRIDGE NO. 2)	SHEET NO.
LAYOUT OF BRIDGE	U-101-101
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-102
FOUNDATION DATA SHEET (1 OF 2)	U-101-103
FOUNDATION DATA SHEET (2 OF 2)	U-101-104
SUPERSTRUCTURE (1 OF 2)	U-101-105
SUPERSTRUCTURE (2 OF 2)	U-101-106
SUPERSTRUCTURE DETAILS (1 OF 5)	U-101-107
SUPERSTRUCTURE DETAILS (2 OF 5)	U-101-108
SUPERSTRUCTURE DETAILS (3 OF 5)	U-101-109
SUPERSTRUCTURE DETAILS (4 OF 5)	U-101-110
SUPERSTRUCTURE DETAILS (5 OF 5)	U-101-111
SCREED PLAN	U-101-112
STAKEOUT PLAN	U-101-113
PRESTRESSED BEAM DETAILS (27"X48" BOX BEAMS, SPAN NO. 1)	U-101-114
PRESTRESSED BEAM DETAILS (27"X48" BOX BEAMS, SPAN NO. 2)	U-101-115
PRESTRESSED BEAM DETAILS (27"X48" BOX BEAMS, SPAN NO. 3)	U-101-116
ABUTMENT NO. 1	U-101-117
ABUTMENT NO. 1 DETAILS	U-101-118
ABUTMENT NO. 1 STEEL PILE DETAILS	U-101-118A
ABUTMENT NO. 2 (1 OF 2)	U-101-119
ABUTMENT NO. 2 (2 OF 2)	U-101-120
ABUTMENT NO. 2 DETAILS (1 OF 2)	U-101-121
ABUTMENT NO. 2 DETAILS (2 OF 2)	U-101-122
PIER NO. 1	U-101-123
PIER NO. 1 DETAILS	U-101-124
PIER NO. 2	U-101-125
PIER NO. 2 DETAILS	U-101-126
FINAL FOUNDATION DATA	U-101-127
BILL OF STEEL (1 OF 2)	U-101-128
BILL OF STEEL (2 OF 2)	U-101-129

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	STRUCTURE-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Kevin.Mcalister@bargedesign.com

Digitally signed by Kevin.Mcalister@bargedesign.com
DN: E=Kevin.Mcalister@bargedesign.com, CN=Kevin.Mcalister@bargedesign.com
Reason: I am the author of this document
Date: 2026.07.02 08:17:26-05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

COMPANY NAME: BARGE DESIGN SOLUTIONS
ADDRESS: 615 3RD AVE S #700
NASHVILLE, TN 37210
CITY, STATE: NASHVILLE, TN
PE NAME, PE NUMBER: KEVIN MCALISTER, PE NO. 110079

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME (BRIDGE NO. 1)	SHEET NO.
SIGNATURE SHEET	STRUCTURE-SIGN2
INDEX OF BRIDGES AND ESTIMATED QUANTITIES	B-1
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79

SHEET NAME (BRIDGE NO. 2)	SHEET NO.
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-102

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	STRUCTURE-SIGN2

REV. 07-07-26: ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

7/2/2026 8:28:12 AM
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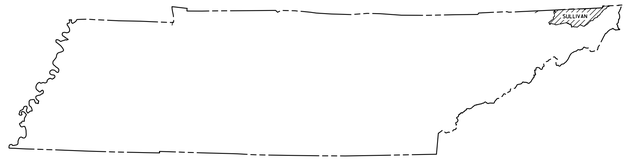

SULLIVAN COUNTY

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-1

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	07-07-2026	KSM	REMOVED STRUCTURE-SIGN1 FROM LIST OF DAWINGS; REVISED ITEM NO. 204.10.02, ITEM NO. 204.10.03, ITEM NO. 204.10.03.

ESTIMATED QUANTITIES 1

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	XO81 QUANTITY	X381 QUANTITY
				BRIDGE NO. 1 MEADOW PARK LANE OVER HORSE CREEK STATION 36+65.50 CONTINUOUS PRECAST PRESTRESSED CONCRETE TYPE III BEAMS WITH COMPOSITE CONCRETE DECK SLAB THREE SPAN BRIDGE SPAN NO. 1 = 50'-0" SPAN NO. 2 = 80'-0" SPAN NO. 3 = 50'-0" TOTAL LENGTH = 180'-0" 36'-0" ROADWAY WIDTH WITH STD-11-2 AND STD 11-3 PARAPET AND 5'-0" SIDEWALK 90°00'00" SKEW LAYOUT DWG. NO. U-101-78	BRIDGE NO. 2 MEADOW PARK LANE OVER SOUTH FOLK HOLTSON RIVER STATION 73+40.70 CONTINUOUS PRECAST PRESTRESSED CONCRETE BOX BEAMS WITH COMPOSITE CONCRETE DECK SLAB THREE SPAN BRIDGE SPAN NO. 1 = 60'-0" SPAN NO. 2 = 60'-0" SPAN NO. 3 = 50'-0" TOTAL LENGTH = 170'-0" 36'-0" TO 66'-7" ROADWAY WIDTH WITH STD-11-2 AND STD-11-3 PARAPET AND 5'-0" SIDEWALK ABUTMENT NO. 1 = 77°40'42" SKEW PIER NO. 1 = 83°55'43" SKEW PIER NO. 2 = 87°17'41" SKEW ABUTMENT NO. 2 = 87°17'41" SKEW LAYOUT DWG. NO. U-101-101
204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	381	354	27
204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	201	132	69
204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	52	22	30
204-05	ROCK DRILLING (BRIDGES)	L.F.	108	36	72
204-10.01	FOUNDATION PREPARATION (BENT NO. 1, STA. 36+25.00)	L.S.	1	1	0
204-10.02	FOUNDATION PREPARATION (PIER NO. 1, STA. 73+15.70)	L.S.	1	0	1
204-10.03	FOUNDATION PREPARATION (BENT NO. 2, STA. 37+05.50)	L.S.	1	1	0
204-10.04	FOUNDATION PREPARATION (PIER NO. 2, STA. 73+75.70)	L.S.	1	0	1
204-14	CORE DRILLING FOR PILES (ROCK)	L.F.	200	90	110
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	141	66	75
604-02.03	EPOXY COATED REINFORCING STEEL	LB.	213,888	80,999	132,889
604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	657	284	373
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	120,210	48,741	71,469
604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	444	220	224
604-03.09	CLASS DS CONCRETE (BRIDGES)	C.Y.	560	269	291
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	1,813	946	867
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1,767	720	1,047
606-03.03	STEEL PILES (12 INCH)	L.F.	500	278	222
606-03.06	PILE TIPS (STEEL PIULES, 12 INCH)	EA.	19	9	10
610-10.45	DECK DRAINS	EA.	6	3	3
615-01.03	PRESTRESSED CONCRETE I-BEAM (TYPE III)	L.F.	868	868	0
615-02.10	PRESTRESSED CONCRETE BOX BEAM (27"X48")	L.F.	986	0	986
620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	823	422	401
710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	236	122	114
710-09.02	6" PIPE UNDERDRAIN	L.F.	84	51	33

LIST OF STANDARD DRAWINGS

	DWG. NO.	REV. DATE
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-2SS	05-31-24
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISC. ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-23
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	06-05-23
STANDARD CONCRETE CLASSIC RAIL	STD-11-2	04-15-20
STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL	STD-11-3	04-15-20
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR I-BEAMS	STD-14-2	03-06-24
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-24

1 LIST OF DRAWINGS (BRIDGE NO. 1)

	DWG. NO.	REV. DATE
INDEX OF BRIDGES AND ESTIMATED QUANTITIES	B-1	
LAYOUT OF BRIDGE	U-101-78	
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79	
FOUNDATION DATA SHEET (1 OF2)	U-101-80	
FOUNDATION DATA SHEET (2 OF 2)	U-101-81	
SUPERSTRUCTURE	U-101-82	
SUPERSTRUCTURE DETAILS (1 OF 3)	U-101-83	
SUPERSTRUCTURE DETAILS (2 OF 3)	U-101-84	
SUPERSTRUCTURE DETAILS (3 OF 3)	U-101-85	
SCREED PLAN	U-101-86	
STAKEOUT PLAN	U-101-87	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 1	U-101-88	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 2	U-101-89	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 3	U-101-90	
BEAM TABLES AND ESTIMATED QUANTITIES	U-101-91	
ABUTMENT NO. 1	U-101-92	
ABUTMENT NO. 1 DETAILS	U-101-93	
ABUTMENT NO. 2	U-101-94	

LIST OF DRAWINGS (BRIDGE NO. 1 CONT.)

	DWG. NO.	REV. DATE
ABUTMENT NO. 2 DETAILS	U-101-95	
ABUTMENT NO. 2 STEEL PILE DETAILS	U-101-95A	
BENT NO. 1	U-101-96	
BENT NO. 2	U-101-97	
BENTS NO. 1 AND NO. 2 DETAILS	U-101-98	
FINAL FOUNDATION DATA	U-101-99	
BILL OF STEEL	U-101-100	

LIST OF DRAWINGS (BRIDGE NO. 2)

	DWG. NO.	REV. DATE
LAYOUT OF BRIDGE	U-101-101	
GENERAL NOTES AND ESTIMATED QUANTITES	U-101-102	
FOUNDATION DATA SHEET (1 OF 2)	U-101-103	
FOUNDATION DATA SHEET (2 OF 2)	U-101-104	
SUPERSTRUCTURE (1 OF 2)	U-101-105	
SUPERSTRUCTURE (2 OF 2)	U-101-106	
SUPERSTRUCTURE DETAILS (1 OF 4)	U-101-107	
SUPERSTRUCTURE DETAILS (2 OF 4)	U-101-108	
SUPERSTRUCTURE DETAILS (3 OF 4)	U-101-109	
SUPERSTRUCTURE DETAILS (4 OF 4)	U-101-110	
FRAMING PLAN	U-101-111	
SCREED PLAN	U-101-112	
STAKEOUT PLAN	U-101-113	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO. 1)	U-101-114	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO. 2)	U-101-115	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO. 3)	U-101-116	
ABUTMENT NO. 1	U-101-117	
ABUTMENT NO. 1 DETAILS	U-101-118	
ABUTMENT NO. 1 STEEL PILE DETAILS	U-101-118A	
ABUTMENT NO. 2 (1 OF 2)	U-101-119	
ABUTMENT NO. 2 (2 OF 2)	U-101-120	
ABUTMENT NO.2 DETAILS (1 OF 2)	U-101-121	
ABUTMENT NO. 2 DETAILS (2 OF 2)	U-101-122	
PIER NO. 1	U-101-123	
PIER NO. 1 DETAILS	U-101-124	
PIER NO. 2	U-101-125	
PIER NO. 2 DETAILS	U-101-126	
FINAL FOUNDATION DATA	U-101-127	
BILL OF STEEL (1 OF 2)	U-101-128	
BILL OF STEEL (2 OF 2)	U-101-129	

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF BRIDGES AND ESTIMATED BRIDGE QUANTITIES

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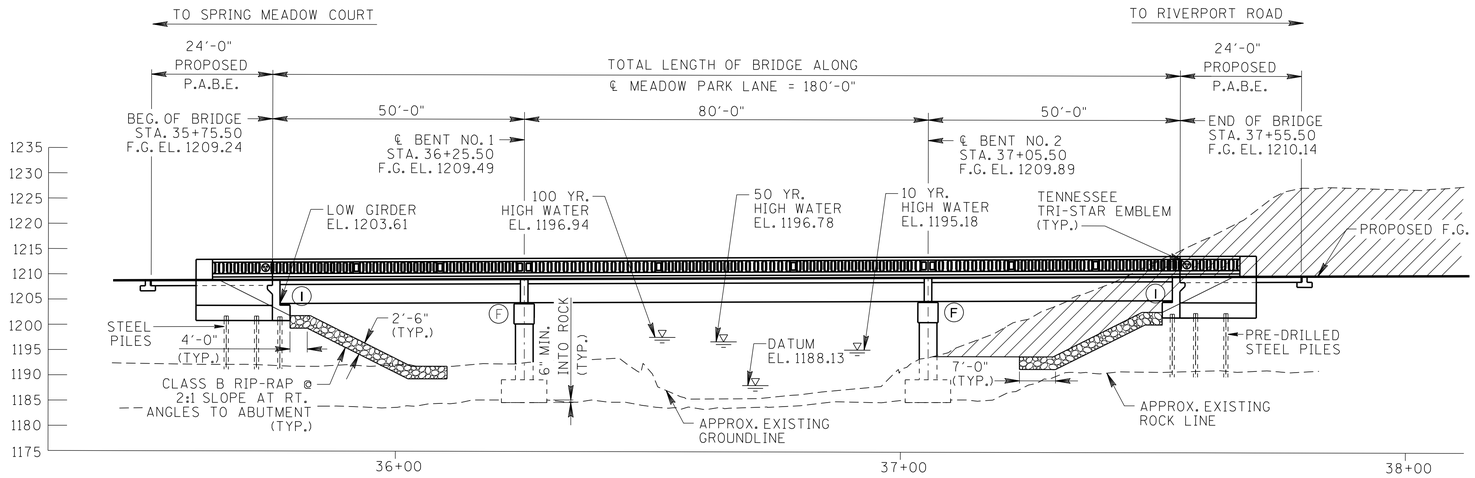
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION

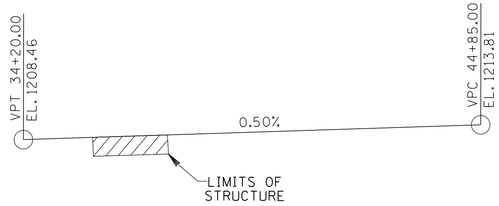
SCALE: 1" = 15'

▨ DENOTES: APPROX. AREA OF EXISTING GROUND TO BE EXCAVATED AND INCLUDED AS ROADWAY ITEM (TYP.)

Ⓘ DENOTES: INTEGRAL SUPPORT CONDITION

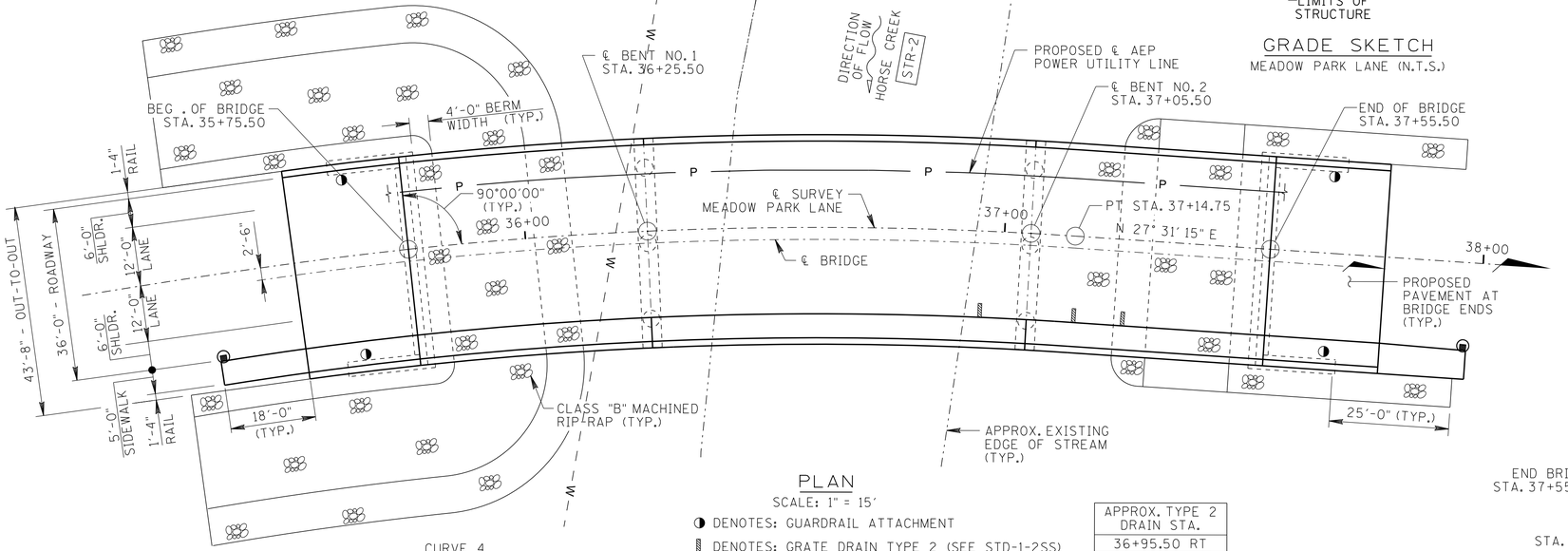
Ⓕ DENOTES: FIXED SUPPORT CONDITION

NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.
100 YEAR SCOUR DEPTH AT ELEVATION 1158.78.
500 YEAR SCOUR DEPTH AT ELEVATION 1152.96.



GRADE SKETCH

MEADOW PARK LANE (N.T.S.)



PLAN

SCALE: 1" = 15'

◑ DENOTES: GUARDRAIL ATTACHMENT

▨ DENOTES: GRATE DRAIN TYPE 2 (SEE STD-1-2SS)

◉ DENOTES: ROADWAY CATCH BASIN DRAINS WITH CURB INLETS

APPROX. TYPE 2 DRAIN STA.
36+95.50 RT
37+15.50 RT
37+45.50 RT

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT , ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

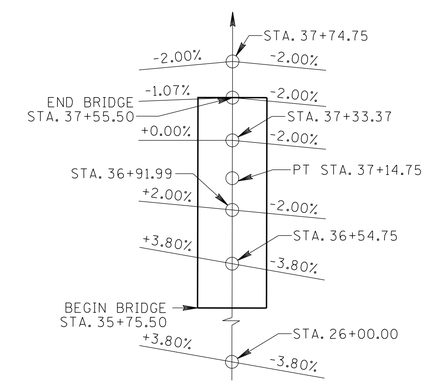
CURVE 4
PI 32+59.64
N 813314.6007
E 2976655.0395
Δ 86°23'10" RT.
D 07°09'43"
R 800.00'
L 1206.18'
T 751.07'
LC 1095.13'
BC N15°40'19.8"W
SE 0.038 FT/FT
TRANS. LENGTH = 122'
DESIGN SPEED = 40 MPH

CURVE DATA

MEADOW PARK LANE

TRANSITION SKETCH

MEADOW PARK LANE (N.T.S.)



LIST OF DRAWINGS

	DWG. NO.	REV. DATE
LAYOUT OF BRIDGE	U-101-78	
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79	
FOUNDATION DATA SHEET (1 OF 2)	U-101-80	
FOUNDATION DATA SHEET (2 OF 2)	U-101-81	
SUPERSTRUCTURE	U-101-82	
SUPERSTRUCTURE DETAILS (1 OF 3)	U-101-83	
SUPERSTRUCTURE DETAILS (2 OF 3)	U-101-84	
SUPERSTRUCTURE DETAILS (3 OF 3)	U-101-85	
SCREED PLAN	U-101-86	
STAKEOUT PLANS	U-101-87	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 1	U-101-88	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 2	U-101-89	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 3	U-101-90	
BEAM TABLES AND ESTIMATED QUANTITIES	U-101-91	
ABUTMENT NO. 1	U-101-92	
ABUTMENT NO. 1 DETAILS	U-101-93	
ABUTMENT NO. 2	U-101-94	
ABUTMENT NO. 2 DETAILS	U-101-95	
ABUTMENT NO. 2 STEEL PILE DETAILS	U-101-95A	
BENT NO. 1	U-101-96	
BENT NO. 2	U-101-97	
BENTS NO. 1 AND NO. 2 DETAILS	U-101-98	
FINAL FOUNDATION DATA	U-101-99	
BILL OF STEEL	U-101-100	

LIST OF STANDARD DRAWINGS

	DWG. NO.	REV. DATE
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-2SS	05-31-24
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISC. ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-23
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	06-05-23
STANDARD CONCRETE CLASSIC RAIL	STD-11-2	04-15-20
STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL	STD-11-3	04-15-20
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR I-BEAMS	STD-14-2	03-06-24

HYDRAULIC DATA

DRAINAGE AREA	46.99 SQ. MI.
DESIGN DISCHARGE (100 YEAR)	5,000 CFS
WATER AREA PROVIDED BELOW EL. 1196.61	797.14 SQ. FT.
100 YEAR VELOCITY	6.27 FPS
100 YEAR BRIDGE BACKWATER	0.79 FT. AT EL. 1196.94
500 YEAR DISCHARGE	7,500 CFS
ROADWAY OVERTOPPING ELEVATION	1,209.24

2046 ADT = 3,890
36'-0" ROADWAY,
5'-0" SIDEWALK RIGHT SIDE,
STD-11-2 PARAPET LEFT SIDE,
STD-11-3 PARAPET RIGHT SIDE,
DESIGN SPEED = 40 MPH

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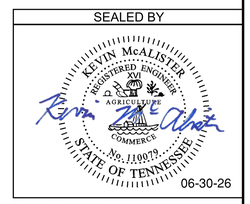

PIN NO.: 131034.00

DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

LAYOUT OF BRIDGE

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-78

CLASS "B" RIP-RAP 1,373 TONS

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ESTIMATED QUANTITIES ⚠1

FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	BENT NO. 1	BENT NO. 2	ABUT. NO. 2
(1)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	354	-	77	89	111	77
(1)	204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	132	-	-	66	66	-
(1)	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	22	-	-	11	11	-
(1)	204-05	ROCK DRILLING	L.F.	36	-	-	18	18	-
(11)	204-10.01	FOUNDATION PREPARATION (BENT NO. 1, STA. 36+25.50)	L.S.	1	-	-	1	-	-
(11)	204-10.03	FOUNDATION PREPARATION (BENT NO. 2, STA. 37+05.50)	L.S.	1	-	-	-	1	-
	204-14	CORE DRILLING FOR PILES (ROCK)	L.F.	90	-	-	-	-	90
(2)	303-01.02	GRANULAR BACKFULL (BRIDGES)	TON	66	-	33	-	-	33
(3)	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	80,999	77,508	1,725	-	-	1,766
(4)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	284	-	48	94	94	48
	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	48,741	2,892	5,696	17,230	17,129	5,794
(5)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	220	-	110	-	-	110
(6)	604-03.09	CLASS DS CONCRETE (BRIDGE DECK)	C.Y.	269	269	-	-	-	-
	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	946	702	38	85	82	39
	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	720	720	-	-	-	-
	606-03.03	STEEL PILES (12 INCH)	L.F.	278	-	170	-	-	108
(10)	606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EA.	9	-	9	-	-	-
	610-10.45	DECK DRAINS (GRATE DRAINS TYPE 2)	EA.	3	3	-	-	-	-
(7)	615-01.03	PRESTRESSED CONCRETE I-BEAM (TYPE III)	L.F.	868	868	-	-	-	-
	620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	422	360	31	-	-	31
	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	122	-	54	-	-	68
(9)	710-09.02	6" PIPE UNDERDRAIN	L.F.	51	-	17	-	-	34

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-3

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
⚠1 1	07-07-2026	KSM	REVISED ITEM NO. 204.10.03

FOOTNOTES:

1. EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT BENTS.
2. GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.
3. REINFORCING STEEL FOR SIDEWALKS SHALL BE INCLUDED IN COST OF EPOXY COATED REINFORCING STEEL.
4. THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 26 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE (BRIDGES), ITEM NO. 604-03.01.
5. PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.
6. CONCRETE FOR SIDEWALKS SHALL BE INCLUDED IN COST OF CLASS D (BRIDGES).
7. COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.
8. THE COST OF BITUMINOUS-FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
9. COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
10. THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.
11. SEE FOUNDATION PREPARATION NOTE THIS SHEET.

GENERAL NOTES:

SPECIFICATIONS & LOADING

(1) CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION).

(2) DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.

(3) LOADING:
- A. HL-93 LIVE LOAD INCREASED BY 10% (MULTIPLIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
- B. SEISMIC DESIGN CATEGORY A WITH AS= 0.174, SDS= 0.346, SD1= 0.146, (1000 YEAR RETURN PERIOD)
- C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

(4) CONCRETE: TO BE CLASS A (CAST-IN-PLACE) F'C =3000 PSI EXCEPT AS NOTED OTHERWISE.

(5) BRIDGE DECKS: CLASS DS CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

(6) BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

(7) BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE REMAIN-IN-PLACE STEEL, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWINGS STD-14-2, AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

(8) REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

FOUNDATION ELEMENTS

(9) FOUNDATION PREPARATION: SEE SECTION 204 OF THE STANDARD SPECIFICATIONS. IF IT IS DETERMINED THAT COFFERDAMS ARE REQUIRED, THEY SHALL BE IN ACCORDANCE WITH SECTION 204.09 OF THE STANDARD SPECIFICATIONS.

(10) SPREAD FOOTINGS FOR BENTS: FOOTINGS SHALL BE EMBEDDED 6 INCHES INTO SOUND ROCK. AS AN ALTERNATE, FOOTINGS MAY BE PLACED DIRECTLY ON CLEAN, SOUND ROCK WITH #8 BARS (1'-0" EMB., 1'-0" PROJ.) SPACED AT 2'-0" MAXIMUM GRID WITH A MAXIMUM EDGE DISTANCE TO THE OUTER BARS OF 1'-6" ALONG BOTH THE LENGTH AND WIDTH OF THE FOOTINGS. AFTER EXCAVATION TO ROCK FOR FOOTING HAS BEEN COMPLETED, HOLES 6" DEEP SHALL BE DRILLED AT POINTS DESIGNATED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES SHALL DETERMINE THE FINAL FOOTING ELEVATIONS. NO REINFORCING STEEL FOR BENT COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

(11) ABUTMENTS ON FILL: THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

(13) END-BEARING STEEL PILES: TO BE HP 12X53 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 135 TONS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

(14) PILE TIPS: PILES SHALL BE EQUIPPED WITH CAST STEEL POINTS. ALSO, SEE STANDARD DRAWING STD-5-1 FOR ADDITIONAL NOTES.

MISCELLANEOUS GENERAL NOTES

(15) UTILITIES: IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.

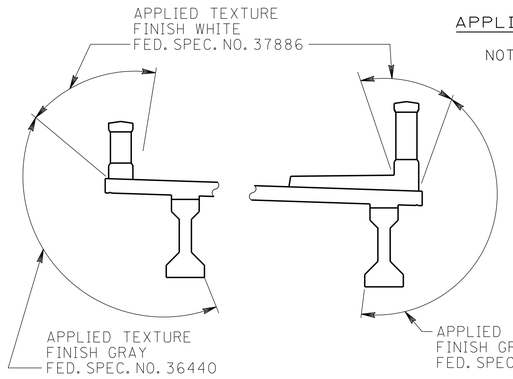
(16) SHOP DRAWINGS: SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

(17) PARAPET SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWING STD-11-2 AND STD-11-3. THE PARAPETS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.

(18) RIP-RAP: MACHINED RIP-RAP SHALL BE CLASS B IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.08.

(19) FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.

APPLIED TEXTURE FINISH SKETCH



NOTE: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, BENTS, AND EXTERIOR PORTIONS OF ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, AMS-STD-595A, COLOR. NO. 36440)

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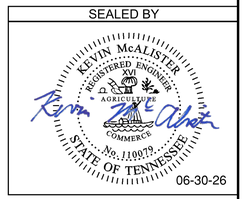

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
GENERAL NOTES AND ESTIMATED QUANTITIES
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-79

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

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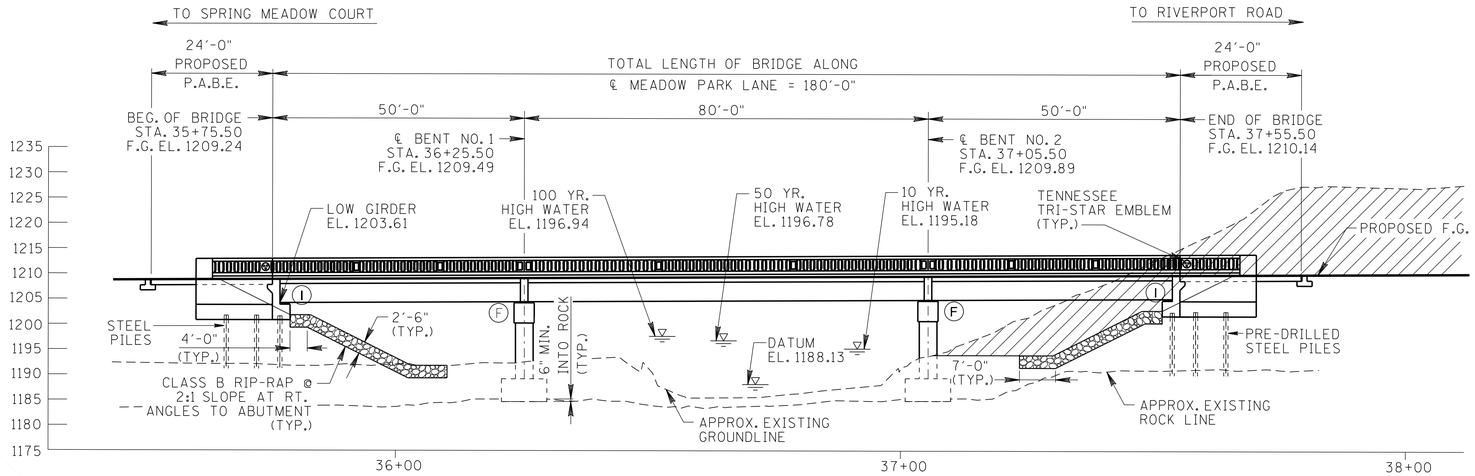


ELEVATION

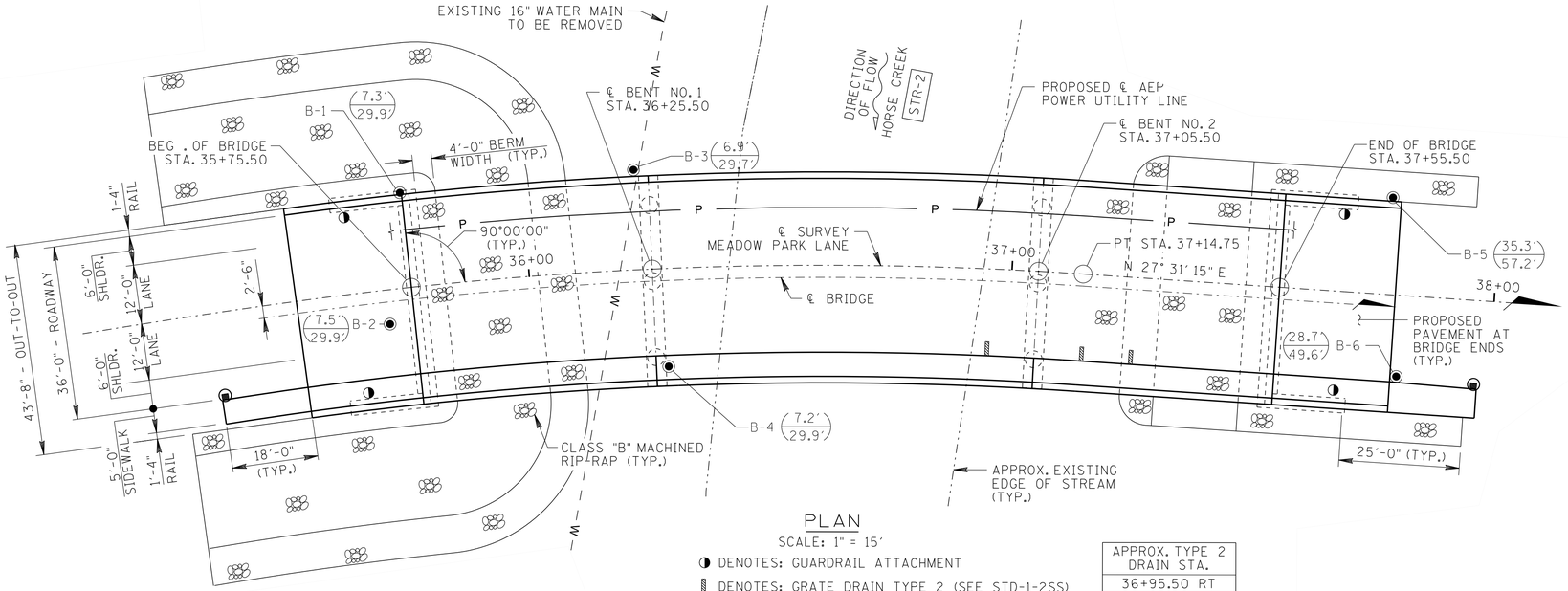
SCALE: 1" = 15'

▨ DENOTES: APPROX. AREA OF EXISTING GROUND TO BE EXCAVATED AND INCLUDED AS ROADWAY ITEM (TYP.)

Ⓘ DENOTES: INTEGRAL SUPPORT CONDITION

Ⓕ DENOTES: FIXED SUPPORT CONDITION

NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.
100 YEAR SCOUR DEPTH AT ELEVATION 1158.78.
500 YEAR SCOUR DEPTH AT ELEVATION 1152.96.



PLAN

SCALE: 1" = 15'

◑ DENOTES: GUARDRAIL ATTACHMENT

▨ DENOTES: GRATE DRAIN TYPE 2 (SEE STD-1-2SS)

◉ DENOTES: ROADWAY CATCH BASIN DRAINS WITH CURB INLETS

APPROX. TYPE 2 DRAIN STA.
36+95.50 RT
37+15.50 RT
37+45.50 RT

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-4

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

LEGEND

B-X◉ BORING LOCATION AND NUMBER

(X.X' / X.X') BORING LOCATION, DEPTH TO REFUSAL (ABOVE LINE) BOTTOM OF HOLE (BELOW LINE)

TABLE OF BORING LOCATIONS

BORING NO.	STATION	OFFSET	GROUND ELEVATION	DEPTH TO ROCK	ROCK ELEVATION
BR1-01	35+75.22	19.7 LT	1191.9	7.3	1184.60
BR1-02	35+70.26	7.1 RT	1191.4	7.5	1183.90
BR1-03	36+22.60	20.7 LT	1191.8	6.9	1184.90
BR1-04	36+28.09	20.3 RT	1192.6	7.2.	1185.40
BR1-05	37+77.67	20.1 LT	1227.3	35.3	1192.00
BR1-06	37+80.81	16.8 RT	1227.4	28.7	1198.70

NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.

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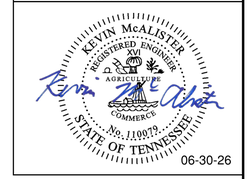

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
FOUNDATION DATA SHEET
(1 OF 2)
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-80

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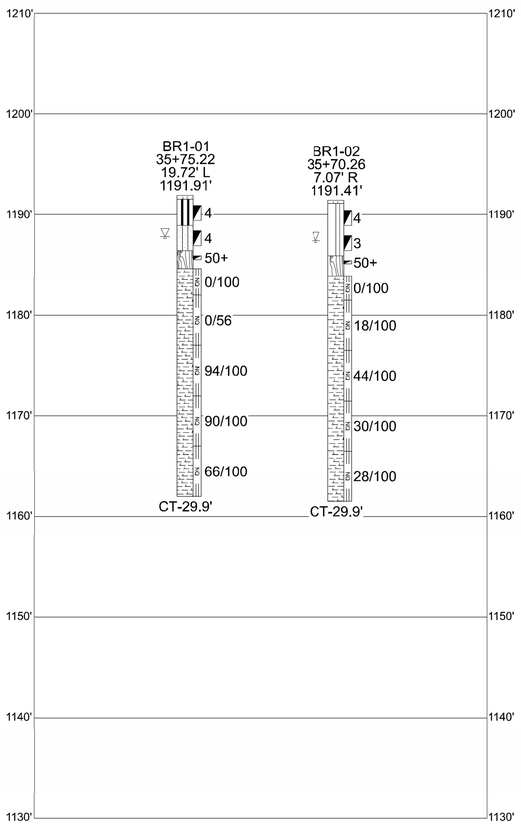
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-5

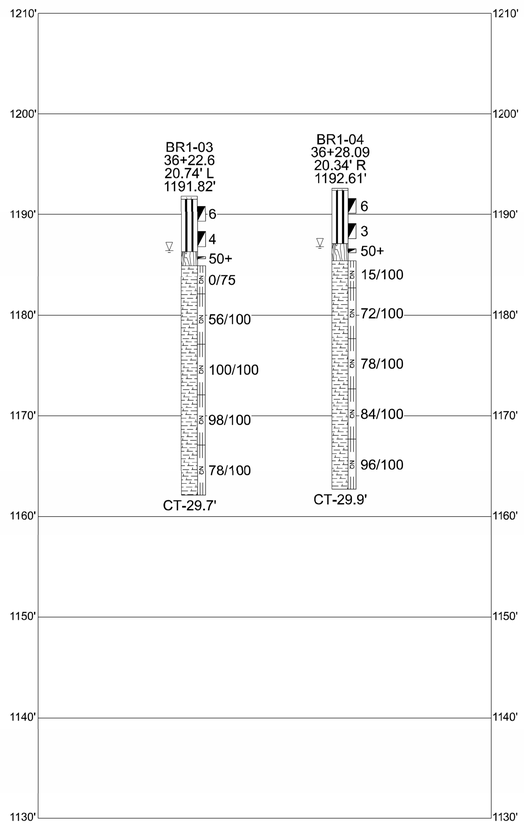
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

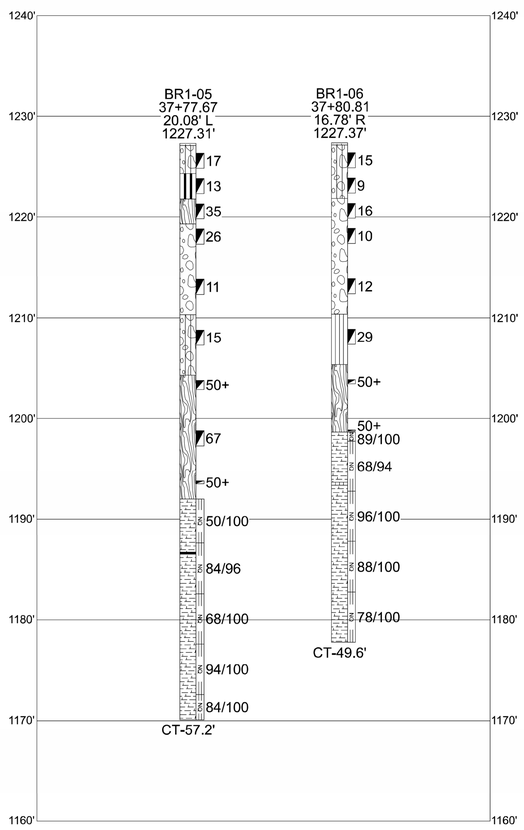
ABUTMENT 1



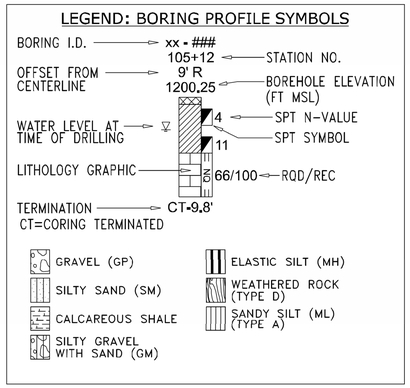
PIER 1



ABUTMENT 2



LEGEND: BORING PROFILE SYMBOLS



NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
FOUNDATION DATA SHEET
(2 OF 2)
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-81

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
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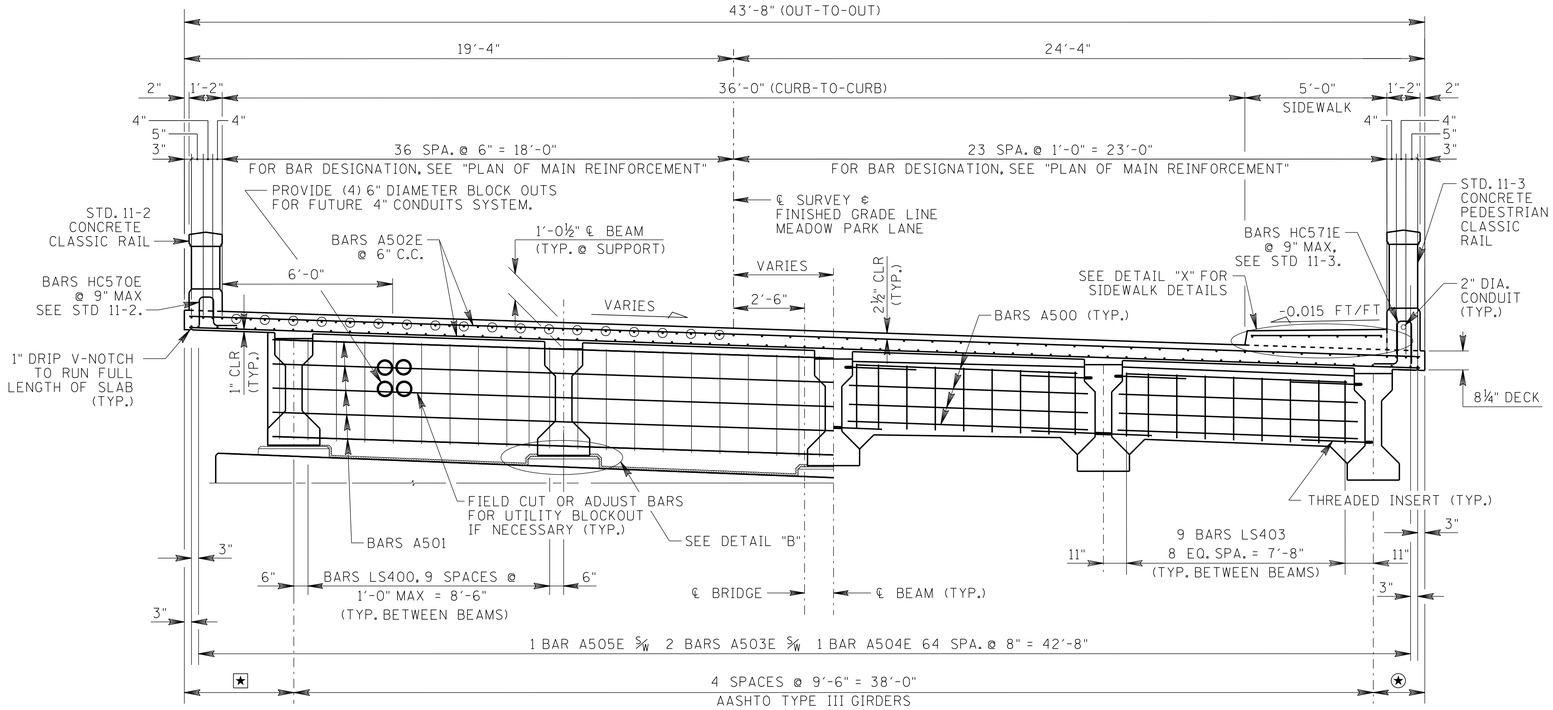


TYPICAL HALF-SECTION AT BENT

TYPICAL HALF-SECTION AT MID-SPAN

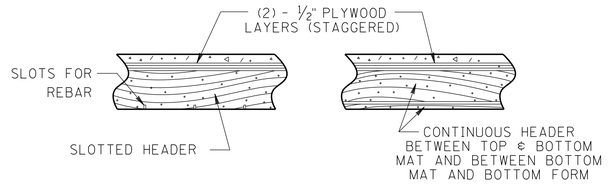
⊙ DENOTES: CUT-OFF BARS

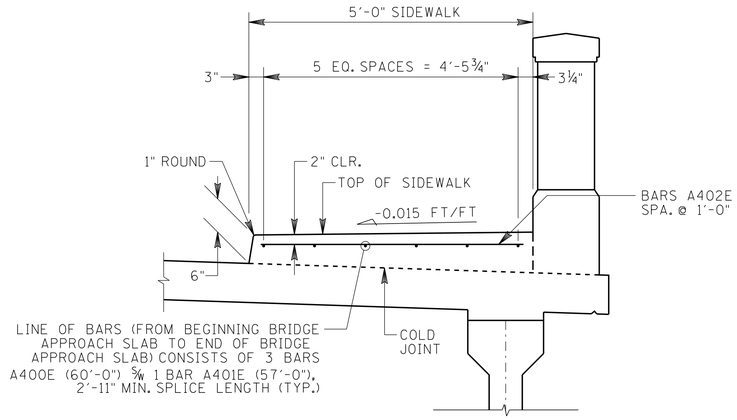
★ DENOTES: VARIES FROM 2'-10" TO 3'-10¼"

Ⓐ DENOTES: VARIES FROM 2'-10" TO 1'-9¾"

TYPICAL CROSS SECTION

(LOOKING FORWARD ON SURVEY)



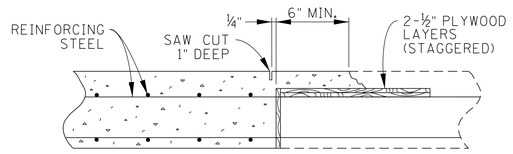


DETAIL "X"

(N.T.S.)

ALTERNATE "A" ALTERNATE "B"

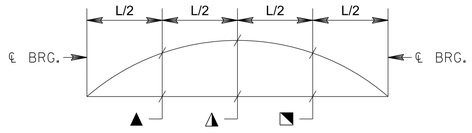
ALTERNATE HEADER DETAILS



SLAB CONSTRUCTION JOINT DETAIL

(N.T.S.)

DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING:
1) NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN INTERIOR SUPPORT.
2) THE SLAB IN THE MIDDLE SECTION OF BOTH ADJACENT SPANS MUST BE POURED TO WITHIN AT LEAST 15 FEET OF THE SUPPORTS EITHER PRIOR TO OR CONCURRENTLY WITH THE SLAB OVER AN INTERIOR SUPPORT.
3.) ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ON THIS SHEET.



DEAD LOAD CORRECTION CURVE

	▲	◮	◥
BEAM 1	⅛"	3/16"	⅛"
BEAM 2	⅛"	3/16"	⅛"
BEAM 3	⅛"	3/16"	⅛"
BEAM 4	⅛"	3/16"	⅛"
BEAM 5	⅛"	3/16"	⅛"
BEAM 6	1"	1 7/16"	1"
BEAM 7	1 1/16"	1 9/16"	1 1/16"
BEAM 8	1 1/16"	1 ½"	1 1/16"
BEAM 9	1"	1 7/16"	1"
BEAM 10	¾"	1 1/16"	¾"
BEAM 11	⅛"	3/16"	⅛"
BEAM 12	⅛"	3/16"	⅛"
BEAM 13	⅛"	3/16"	⅛"
BEAM 14	⅛"	3/16"	⅛"
BEAM 15	⅛"	3/16"	⅛"

DEAD LOAD CORRECTION CURVE: THIS CURVE IS FOR DEAD LOAD OF SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER THE SLAB IS IN PLACE.

NOTE: PRESTRESSED DECK PANELS ARE NOT ALLOWED.

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-6

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

GENERAL NOTES:

NOTE: OUTSIDE EDGE OF SLAB AND PARAPET TO CONFORM TO HORIZONTAL CURVE.

NOTE: NO PORTION OF THE PARAPET SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

ANCHOR BOLTS AT BENTS: ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.

NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. ALSO, SEE STD 11-2 AND STD 11-3.

NOTE: THE SUPPORT DIAPHRAGMS AT THE BENTS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DAIPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.

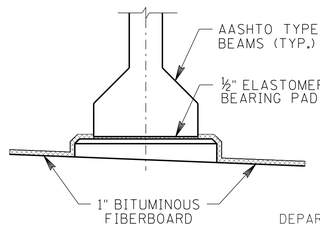
NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE POURED AND CURED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS AND PERMANENT INTERMEDIATE DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR THE ALIGNMENT, THE PLACEMENT AND THE INSTALLATION OF THE UTILITY CONDUIT SYSTEM, INCLUDING THE UTILITY HANGERS. ALSO, THE CONTRACTOR SHALL SUBMIT UTILITY ATTACHMENT SYSTEM WITH CALCULATIONS FOR REVIEW AND APPROVAL BEFORE ANY INSTALLATIONS.

NOTE: REFER TO ELECTRIC UTILITY RELOCATION SHEET U5-12 AND U5-13 FOR THE UTILITY HANGER DETAILS. UTILITY HANGER ANCHOR SYSTEM SHALL BE DESIGNED FOR A DESIGN CAPACITY OF 800 LBS MIN.

ESTIMATED QUANTITIES

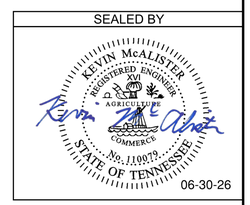
CLASS "DS" CONCRETE (BRIDGE DECK) (C.Y.)	CLASS "DS" CONCRETE (SIDEWALK) (C.Y.)	STEEL BAR REINFORCEMENT (LB.)	EPOXY COATED REINFORCING STEEL (LB.)
248	21	2,892	77,508



DETAIL "B"

(N.T.S.)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

SUPERSTRUCTURE

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-82

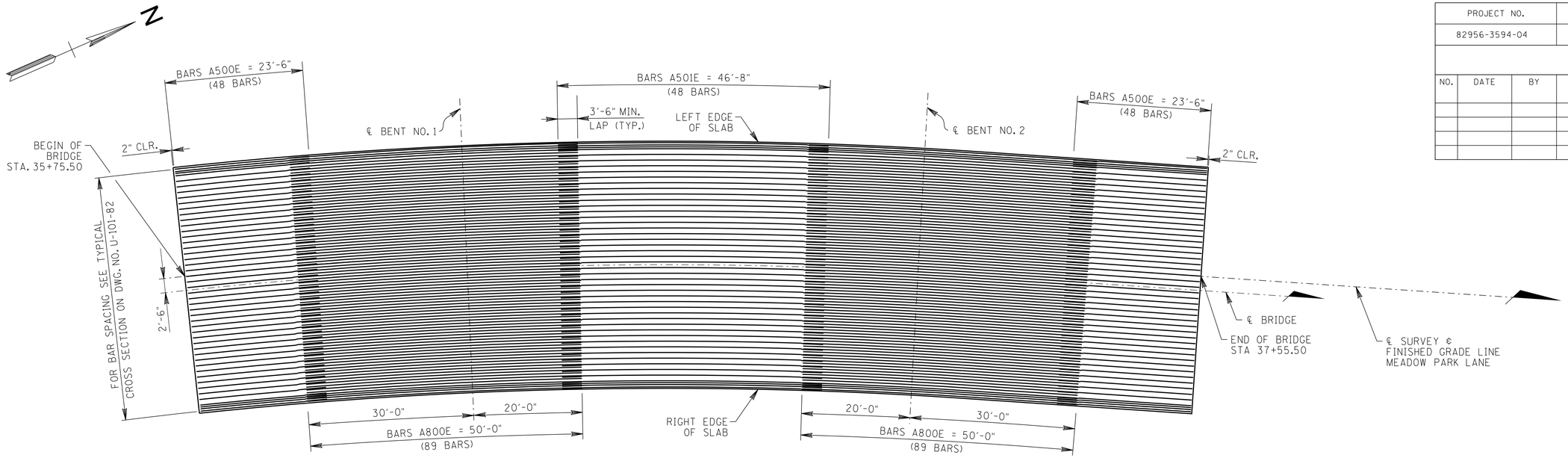
PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

6/24/2026 4:15:27 PM
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_05 SUPERSTRUCTURE CROSS SECTION.DGN

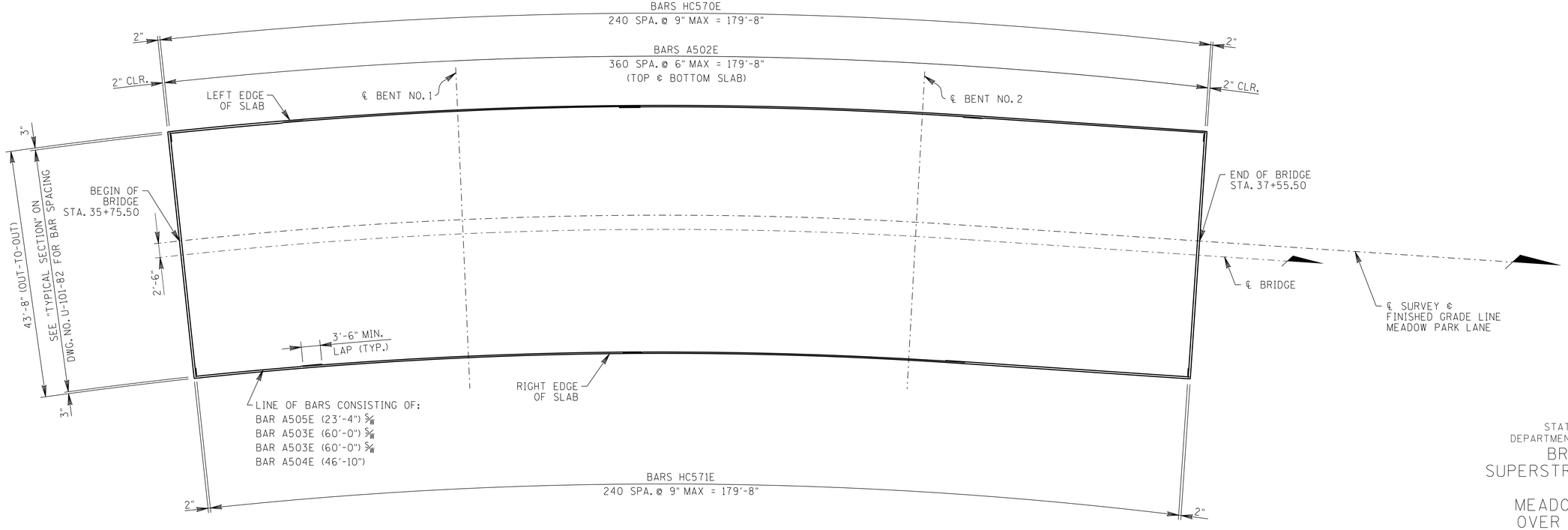
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-7

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



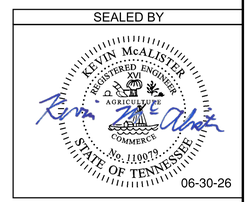
PLAN OF MAIN REINFORCEMENT
(N.T.S.)



SLAB PLAN
(N.T.S.)

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
SUPERSTRUCTURE DETAILS
(1 OF 3)
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-83

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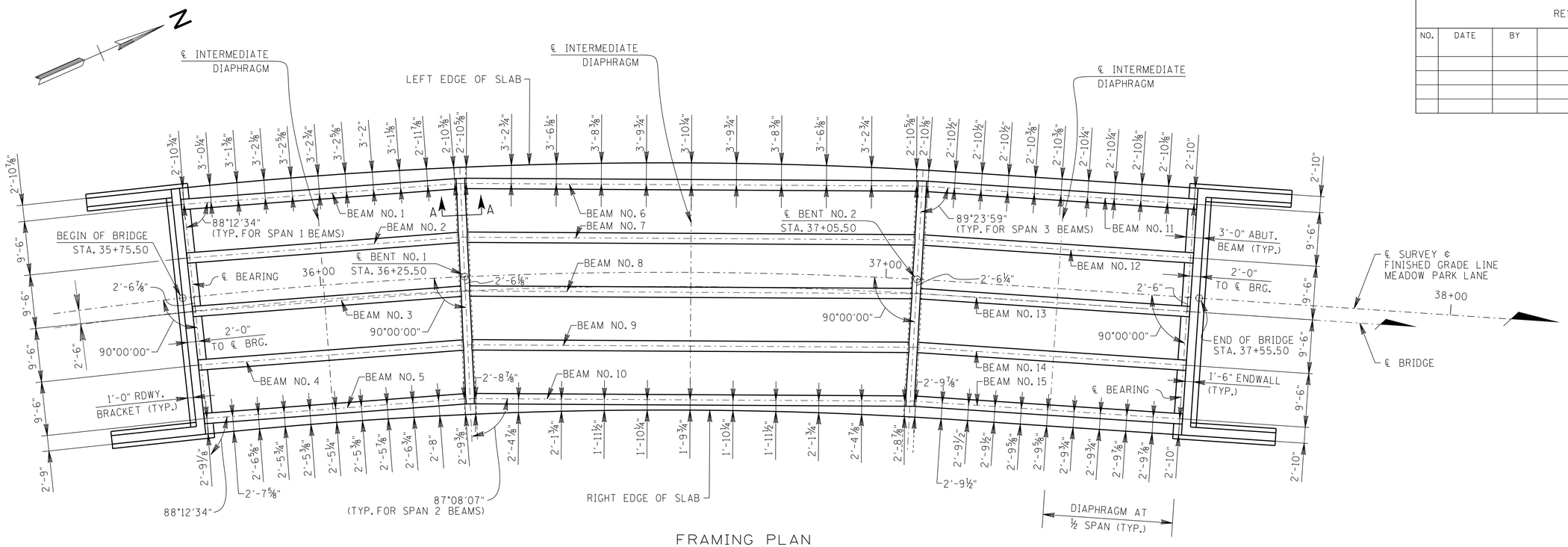
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-8

REVISIONS

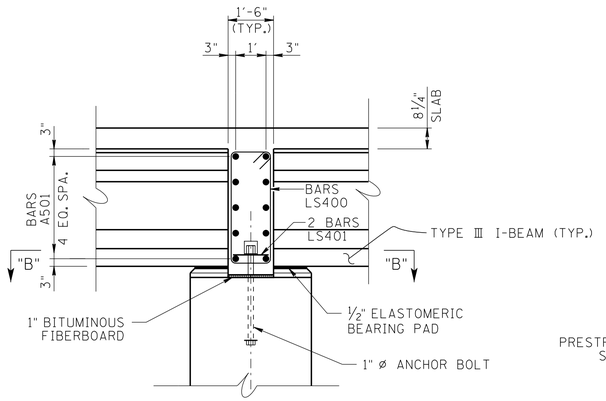
NO.	DATE	BY	BRIEF DESCRIPTION



FRAMING PLAN

(N.T.S)

NOTE: BEAM SPACING AT BENTS NOT SHOWN FOR CLARITY. BEAM SPACING AT BENTS IS THE SAME THROUGHOUT ALL SUBSTRUCTURES.

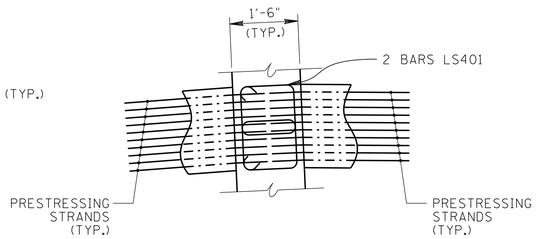


SECTION "A"-"A"

(N.T.S.)

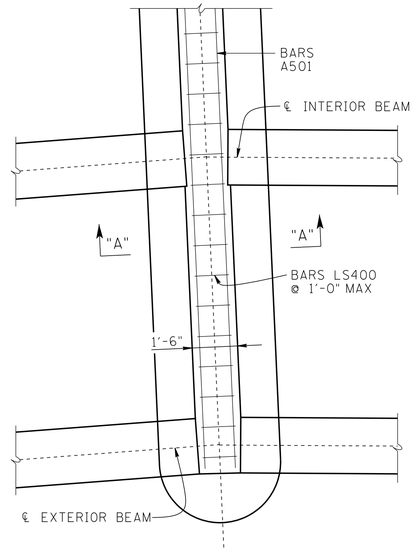
(TYP.)

NOTE: A501 BAR "TO BE CUT IN FIELD" ACCORDINGLY AT EXTERIOR END FACE OF DIAPHRAGM.



SECTION "B"-"B"

(N.T.S)



PART PLAN OF DIAPHRAGM

(N.T.S)

PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 110079 STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1 SUPERSTRUCTURE DETAILS (2 OF 3)

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-84

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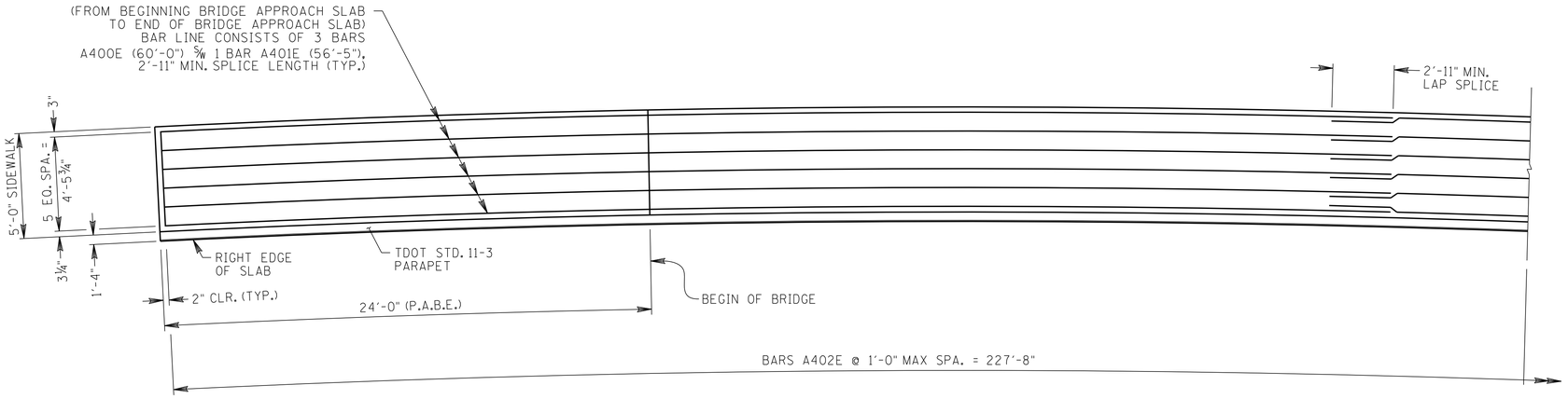
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-9

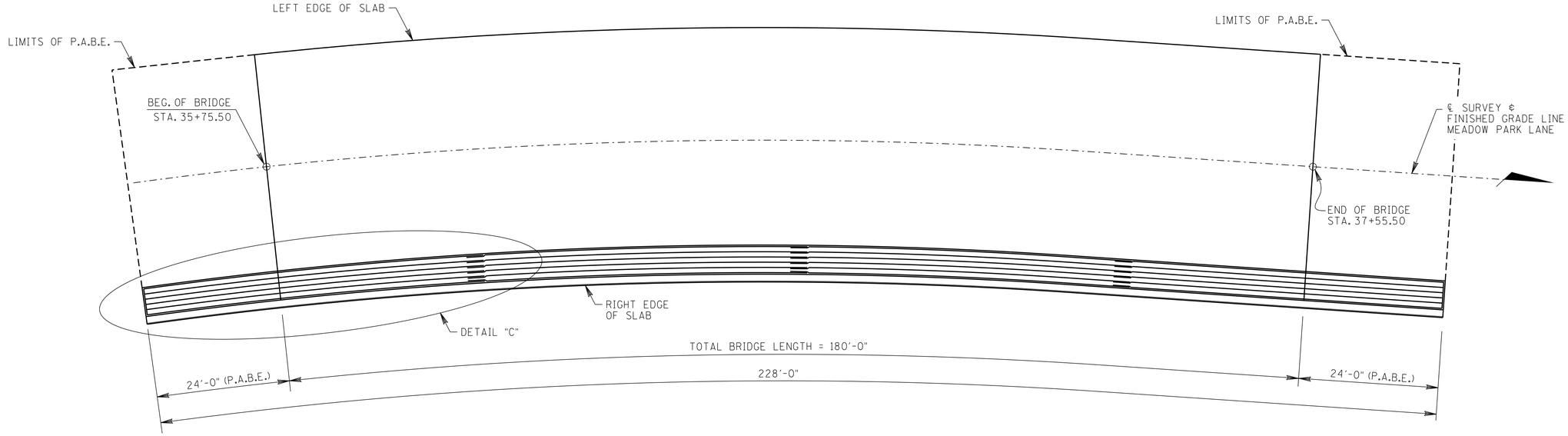
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



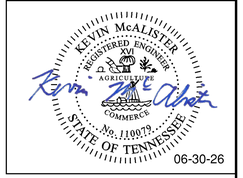
DETAIL "C"
(N.T.S.)

NOTE: SEE DETAIL "X" ON SHEET NO. U-101-82 FOR SECTION VIEW OF SIDEWALK.



SIDEWALK REINFORCEMENT PLAN
(N.T.S.)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
SUPERSTRUCTURE DETAILS
(3 OF 3)
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-85

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

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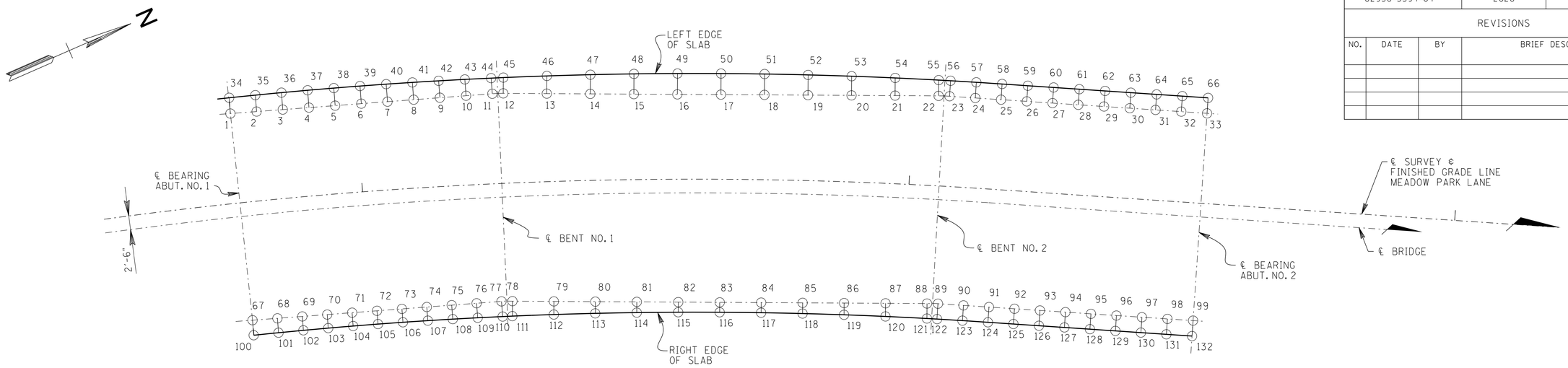
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_08 SIDEWALK.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-10

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



SCREED PLAN

(N.T.S)

SCREED TABLE

	PT.	STATION	ELEVATION	PT.	STATION	ELEVATION	PT.	STATION	ELEVATION	PT.	STATION	ELEVATION
SPAN 1	1	35+77.46	1209.87	34	35+77.54	1209.98	67	35+77.56	1208.43	100	35+77.48	1208.32
	2	35+82.16	1209.89	35	35+82.23	1210.01	68	35+82.25	1208.44	101	35+82.18	1208.35
	3	35+86.87	1209.91	36	35+86.92	1210.03	69	35+86.94	1208.46	102	35+86.89	1208.37
	4	35+91.58	1209.93	37	35+91.61	1210.05	70	35+91.63	1208.49	103	35+91.60	1208.39
	5	35+96.28	1209.95	38	35+96.30	1210.08	71	35+96.32	1208.51	104	35+96.31	1208.42
	6	36+00.99	1209.97	39	36+00.99	1210.10	72	36+01.01	1208.53	105	36+01.02	1208.44
	7	36+05.70	1210.00	40	36+05.68	1210.12	73	36+05.71	1208.55	106	36+05.72	1208.46
	8	36+10.40	1210.02	41	36+10.37	1210.15	74	36+10.40	1208.58	107	36+10.43	1208.49
	9	36+15.11	1210.05	42	36+15.06	1210.17	75	36+15.09	1208.61	108	36+15.14	1208.51
	10	36+19.82	1210.08	43	36+19.74	1210.19	76	36+19.78	1208.63	109	36+19.85	1208.53
	11	36+24.52	1210.11	44	36+24.43	1210.22	77	36+24.47	1208.66	110	36+24.56	1208.56
SPAN 2	12	36+26.48	1210.12	45	36+26.62	1210.23	78	36+26.53	1208.67	111	36+26.39	1208.57
	13	36+34.27	1210.14	46	36+34.40	1210.27	79	36+34.31	1208.70	112	36+34.22	1208.61
	14	36+42.08	1210.17	47	36+42.18	1210.31	80	36+42.10	1208.73	113	36+42.04	1208.65
	15	36+49.88	1210.20	48	36+49.95	1210.34	81	36+49.90	1208.76	114	36+49.86	1208.68
	16	36+57.69	1210.22	49	36+57.73	1210.36	82	36+57.70	1208.83	115	36+57.68	1208.76
	17	36+65.50	1210.20	50	36+65.50	1210.32	83	36+65.50	1208.95	116	36+65.50	1208.89
	18	36+73.31	1210.18	51	36+73.27	1210.29	84	36+73.30	1209.07	117	36+73.32	1209.02
	19	36+81.12	1210.16	52	36+81.05	1210.25	85	36+81.10	1209.20	118	36+81.14	1209.15
	20	36+88.92	1210.14	53	36+88.82	1210.22	86	36+88.90	1209.33	119	36+88.96	1209.28
	21	36+96.73	1210.13	54	36+96.60	1210.19	87	36+96.69	1209.40	120	36+96.78	1209.36
	22	37+04.52	1210.11	55	37+04.38	1210.15	88	37+04.47	1209.45	121	37+04.61	1209.40
SPAN 3	23	37+06.48	1210.11	56	37+06.51	1210.14	89	37+06.53	1209.46	122	37+06.50	1209.41
	24	37+11.10	1210.09	57	37+11.11	1210.12	90	37+11.33	1209.49	123	37+11.32	1209.44
	25	37+15.75	1210.08	58	37+15.74	1210.10	91	37+16.10	1209.51	124	37+16.10	1209.45
	26	37+20.47	1210.07	59	37+20.46	1210.08	92	37+20.77	1209.53	125	37+20.78	1209.48
	27	37+25.19	1210.05	60	37+25.18	1210.06	93	37+25.45	1209.56	126	37+25.45	1209.50
	28	37+29.90	1210.04	61	37+29.90	1210.04	94	37+30.12	1209.58	127	37+30.13	1209.52
	29	37+34.62	1210.02	62	37+34.62	1210.02	95	37+34.80	1209.60	128	37+34.80	1209.55
	30	37+39.34	1210.01	63	37+39.34	1210.00	96	37+39.47	1209.63	129	37+39.48	1209.57
	31	37+44.06	1210.00	64	37+44.06	1209.98	97	37+44.15	1209.65	130	37+44.15	1209.59
	32	37+48.78	1209.98	65	37+48.78	1209.96	98	37+48.82	1209.67	131	37+48.83	1209.62
	33	37+53.50	1209.97	66	37+53.50	1209.94	99	37+53.50	1209.70	132	37+53.50	1209.64

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

SCREED PLAN

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

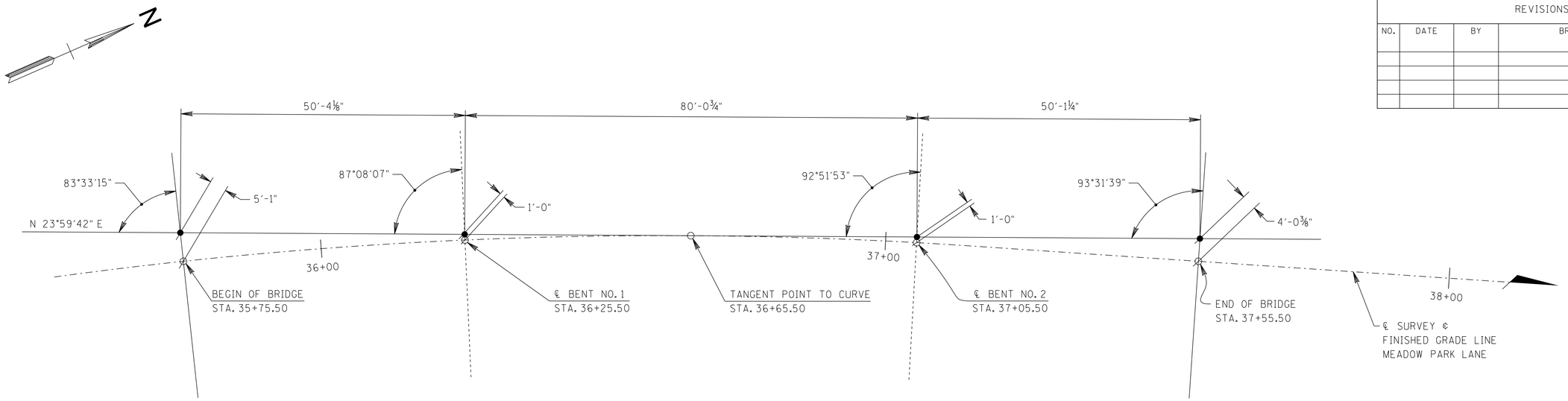
U-101-86

6/24/2026 4:15:40 PM
F:\37\37743\3774302\04_CADD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_09 BRIDGE SCREED.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-11

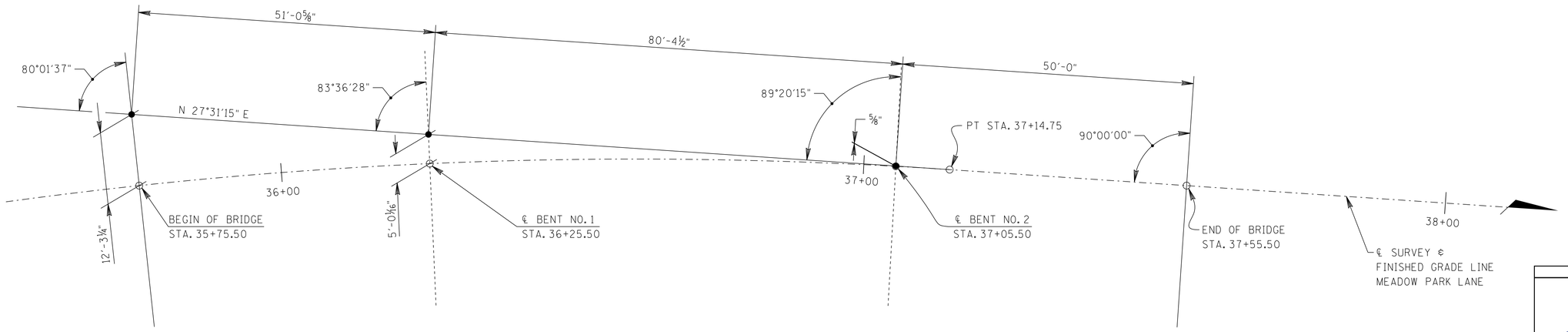
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



STAKE OUT PLAN

(N.T.S.)



ALTERNATE STAKE OUT PLAN

(N.T.S.)

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

STAKEOUT PLAN

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-87

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

6/24/2026 4:15:43 PM
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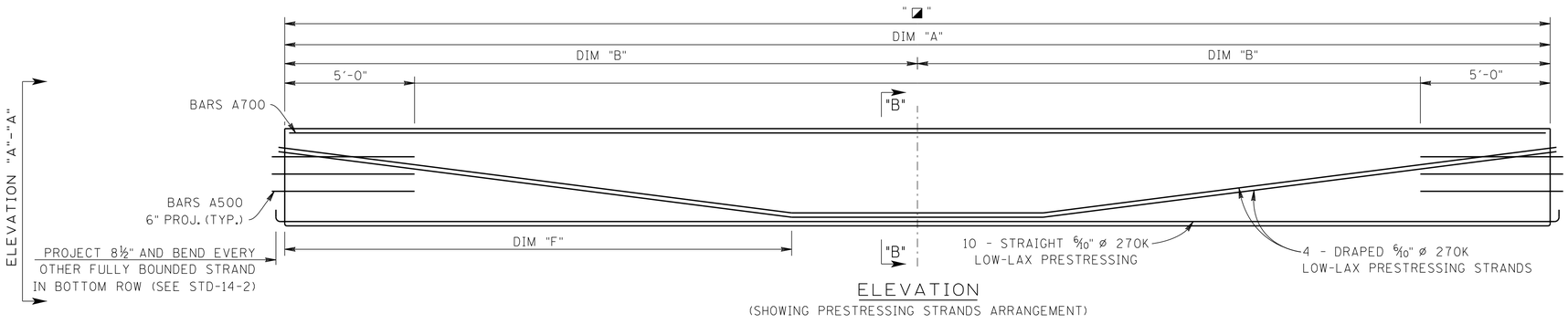
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-12

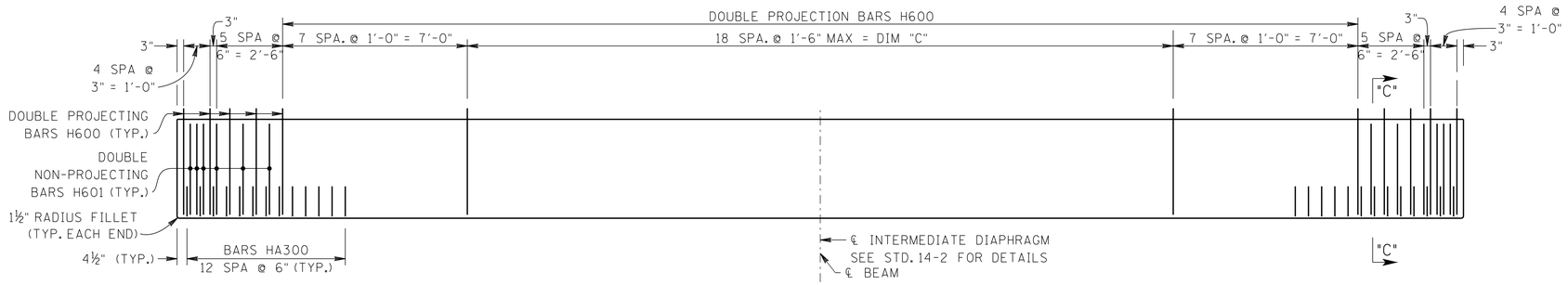
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION

(SHOWING PRESTRESSING STRANDS ARRANGEMENT)



ELEVATION

(SHOWING STIRRUPS ARRANGEMENT)

NOTE: SEE DWG. NO. U-101-91 FOR TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES.

DATA PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.86 LANES
SHEAR = 0.93 LANES

UTILITY DEAD LOAD: DW = 26.2 PLF
COMPOSITE DEAD LOADS: DC = 318 PLF
DW = 252 PLF

COMPOSITE DESIGN SLAB STRENGTH F'C = 4,000 PSI

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

PRESTRESSED STRAND DATA:

LOW-LAX ASTM A416 GRADE 270 KSI UNCOATED 7-WIRE STRANDS
DIAMETER = 0.6 INCH
AREA = 0.217 SQ. IN
INITIAL JACKING FORCE = 43,943 LBS.

BEAM NOTES:

SEE STD 14-2 FOR I-BEAM STANDARD DETAILS, NOTES, AND REINFORCING.

ALL BEAMS ARE AASHTO - PCI STANDARD TYPE Ⅲ.

THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

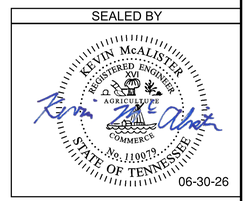
THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 8,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 7,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

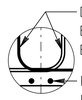
TOP FLANGE TO BE CLEAN, FREE OF LAITENANCE, AND INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF ¼".

THREADED INSERTS FOR DIAPHRAGM SHALL BE INSTALLED PER PLANS.

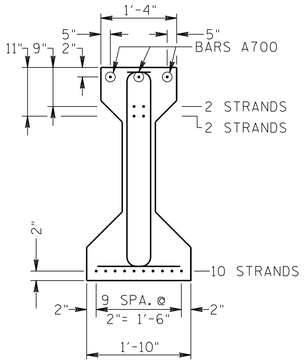
CONTRACTOR SHALL FIELD VERIFY BEAM LENGTH PRIOR TO FABRICATING BEAMS. SHOULD FIELD MEASUREMENTS VARY GREATER THAN 2", THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IN ORDER TO VERIFY THE BEAM DESIGN AND MAKE ANY ADJUSTMENTS NECESSARY.

SEALED BY





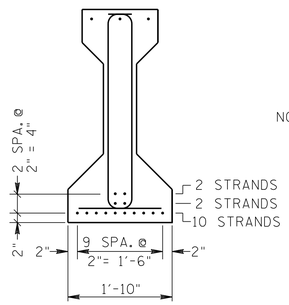
DETAIL "X"



ELEVATION "A"-"A"

(N.T.S.)

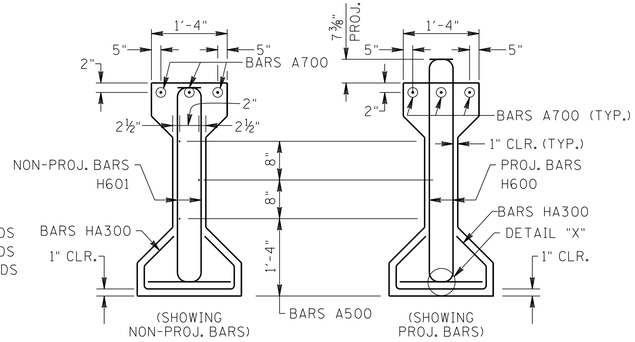
(SHOWING STRAND PATTERN @ BEAM END)



SECTION "B"-"B"

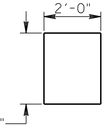
(N.T.S.)

(SHOWING STRAND PATTERN @ BEAM MIDPOINT)



SECTION "C"-"C"

(N.T.S.)



(BENT NO. 1 & BENT NO. 2)

BEARING PAD DIMENSION

NOTE: OTHERWISE NOTED, REFER TO STD 14-2 FOR BEARING PAD DIMENSIONS

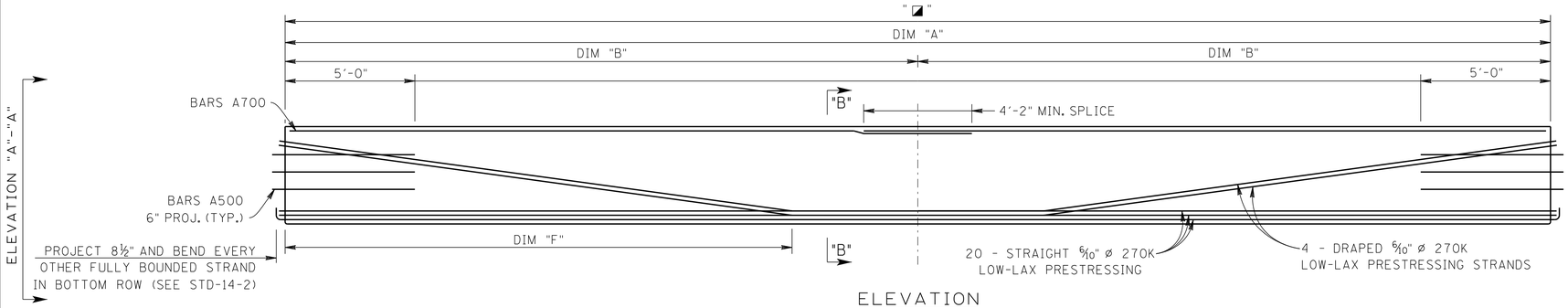
PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

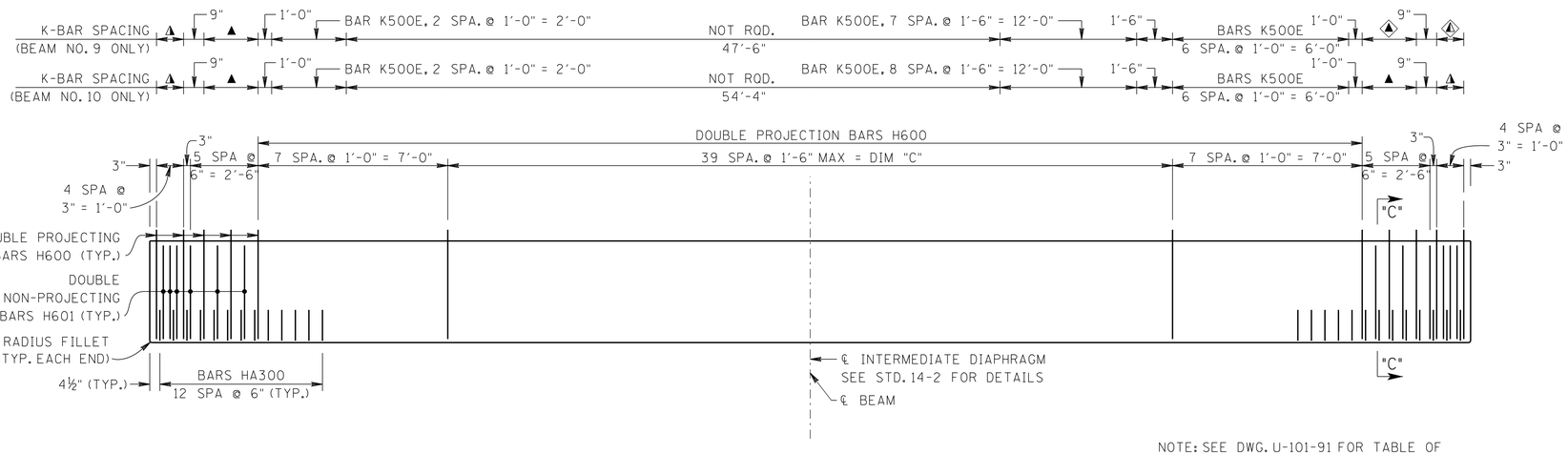
BRIDGE NO. 1
PRESTRESSED AASHTO TYPE Ⅲ
I-BEAM, SPAN NO. 1
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-88

6/24/2026 4:15:46 PM
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_11 BEAM001.DGN



ELEVATION
(SHOWING PRESTRESSING STRANDS ARRANGMENT)

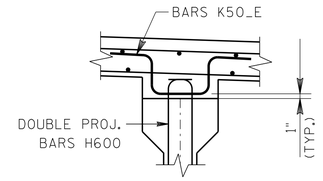


ELEVATION
(SHOWING STIRRUPS ARRAGMENT)

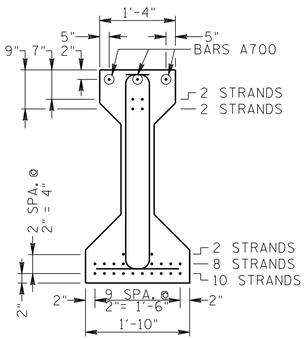
▲ DENOTES: BARS K500E, 2 SPA. @ 1'-0" = 2'-0"
◮ DENOTES: BARS K500E, 1 SPA. @ 1'-0"" = 1'-0"
◈ DENOTES: BARS K501E, 2 SPA. @ 1'-0" = 2'-0"
◭ DENOTES: BARS K501E, 1 SPA. @ 1'-0" = 1'-0"

NOTE: SEE DWG. U-101-91 FOR TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES.

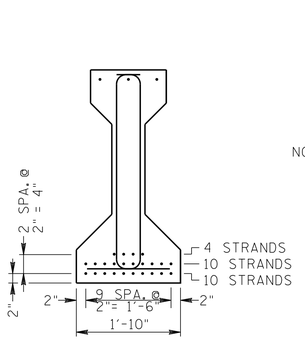
⊠ DENOTES: DOUBLE PROJ. H600 BAR LENGTH
8¼" (BEAM NO. 6)
7⅜" (BEAM NO. 7)
7⅜" (BEAM NO. 8)
6½" (BEAM NO. 9)
5¾" (BEAM NO. 10)



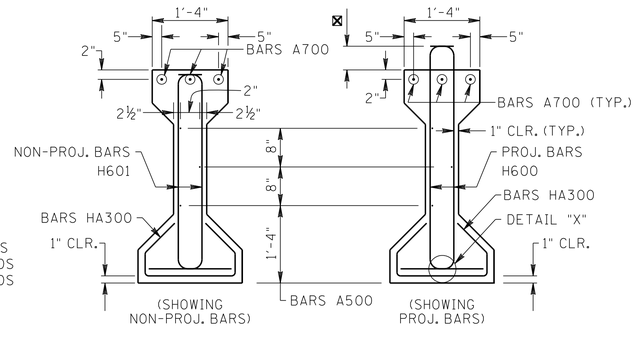
DETAIL SHOWING K BARS
(N.T.S.)
(TYP @ BEAM NO. 9 @ 10.)



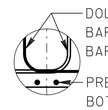
ELEVATION "A"-"A"
(N.T.S.)
(SHOWING STRAND PATTERN @ BEAM END)



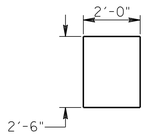
SECTION "B"-"B"
(N.T.S.)
(SHOWING STRAND PATTERN @ BEAM MIDPOINT)



SECTION "C"-"C"
(N.T.S.)



DETAIL "X"



(BENT NO. 1 & BENT NO. 2)
BEARING PAD DIMENSION
NOTE: OTHERWISE NOTED, REFER TO STD 14-2 FOR BEARING PAD DIMENSIONS

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-13

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

DATA PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.86 LANES
SHEAR = 0.93 LANES

UTILITY DEAD LOAD: DW = 26.2 PLF
COMPOSITE DEAD LOADS: DC = 318 PLF
DW = 119 PLF

COMPOSITE DESIGN SLAB STRENGTH F'C = 4,000 PSI

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

PRESTRESSED STRAND DATA:

LOW-LAX ASTM A416 GRADE 270 KSI UNCOATED 7-WIRE STRANDS
DIAMETER = 0.6 INCH
AREA = 0.217 SQ. IN
INITIAL JACKING FORCE = 43,943 LBS.

BEAM NOTES:

SEE STD 14-2 FOR I-BEAM STANDARD DETAILS, NOTES, AND REINFORCING.

ALL BEAMS ARE AASHTO - PCI STANDARD TYPE Ⅲ.

THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 8,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 7,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

TOP FLANGE TO BE CLEAN, FREE OF LAITENANCE, AND INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF ¼".

THREADED INSERTS FOR DIAPHRAGM SHALL BE INSTALLED PER PLANS.

CONTRACTOR SHALL FIELD VERIFY BEAM LENGTH PRIOR TO FABRICATING BEAMS. SHOULD FIELD MEASUREMENTS VARY GREATER THAN 2", THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IN ORDER TO VERIFY THE BEAM DESIGN AND MAKE ANY ADJUSTMENTS NECESSARY.

SEALED BY
KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

PIN NO.:	131034.00
DESIGN BY: R. HUANG	DATE: 01/2026
DRAWN BY: R. HUANG	DATE: 01/2026
SUPERVISED BY: K. MCALISTER	DATE: 01/2026
CHECKED BY: I. GLOUDOUA	DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PRESTRESSED AASHTO TYPE Ⅲ
I-BEAM, SPAN NO. 2
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

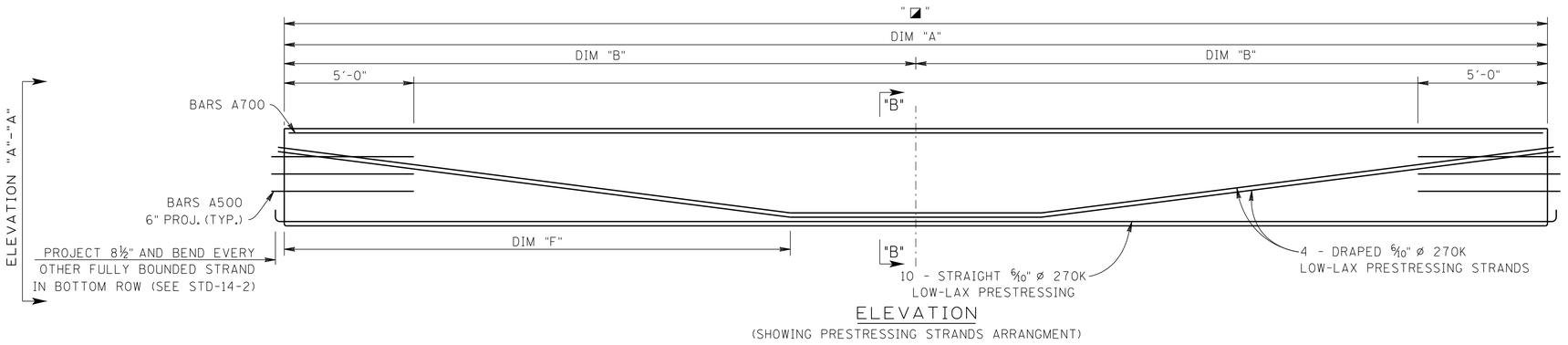
U-101-89

6/24/2026 4:15:49 PM

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-14

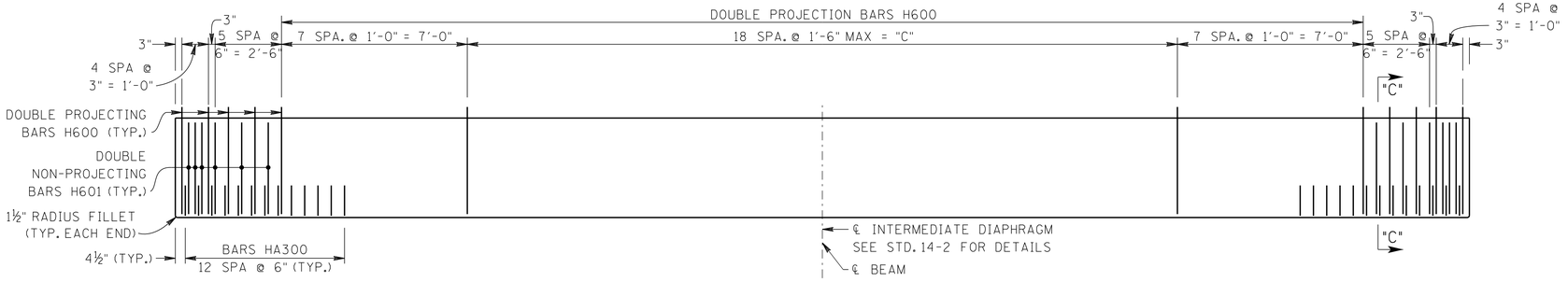
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION

(SHOWING PRESTRESSING STRANDS ARRANGMENT)



ELEVATION

(SHOWING STIRRUPS ARRANGMENT)

NOTE: SEE DWG. NO. U-101-89 FOR TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES.

DATA PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.86 LANES
SHEAR = 0.93 LANES

UTILITY DEAD LOAD: DW = 26.2 PLF
COMPOSITE DEAD LOADS: DC = 318 PLF
DW = 252 PLF

COMPOSITE DESIGN SLAB STRENGTH F'C = 4,000 PSI

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

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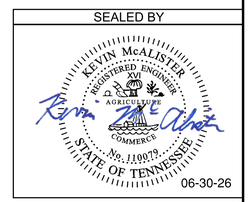
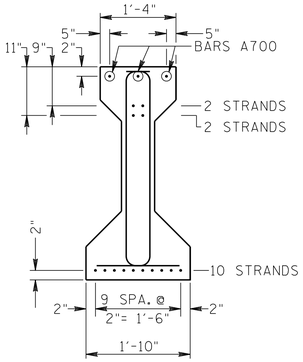
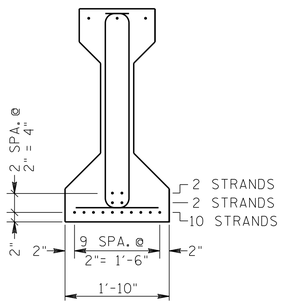
SEALED BY

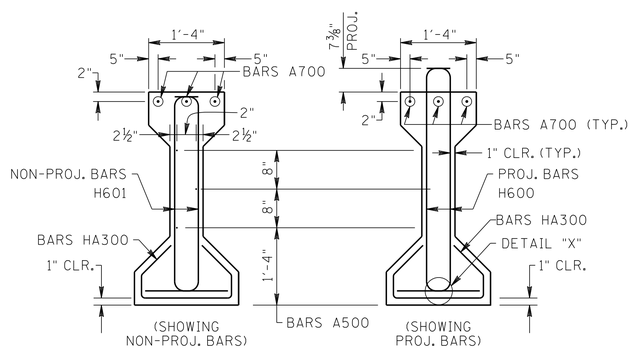




ELEVATION "A"-"A"
(N.T.S.)
(SHOWING STRAND PATTERN @ BEAM END)

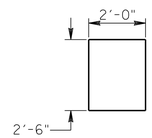


SECTION "B"-"B"
(N.T.S.)
(SHOWING STRAND PATTERN @ BEAM MIDPOINT)



SECTION "C"-"C"
(N.T.S.)

DETAIL "X"



(BENT NO. 1 ℄ BENT NO. 2)
BEARING PAD DIMENSION

NOTE: OTHERWISE NOTED, REFER TO STD 14-2 FOR BEARING PAD DIMENSIONS

PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PRESTRESSED AASHTO TYPE Ⅲ
I-BEAM, SPAN NO. 3
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-90

6/24/2026 4:15:52 PM
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(SPAN 1) TABLE OF DIMENSIONS

BEAM	DIM "A"	DIM "B"	DIM "C"	DIM "F"
NO. 1	48'-9"	24'-4½"	26'-9"	19'-6"
NO. 2	48'-2"	24'-1"	26'-2"	19'-3"
NO. 3	47'-7"	23'-9½"	25'-7"	19'-0"
NO. 4	47'-0"	23'-6"	25'-0"	18'-10"
NO. 5	46'-5"	23'-2½"	24'-5"	18'-7"

(SPAN 2) TABLE OF DIMENSIONS

BEAM	DIM "A"	DIM "B"	DIM "C"	DIM "F"
NO. 6	80'-2"	40'-1"	58'-2"	32'-0"
NO. 7	79'-2"	39'-7"	57'-2"	31'-8"
NO. 8	78'-3"	39'-1½"	56'-3"	31'-3"
NO. 9	77'-4"	38'-8"	55'-4"	30'-11"
NO. 10	76'-4"	38'-2"	54'-4"	30'-6"

(SPAN 3) TABLE OF DIMENSIONS

BEAM	DIM "A"	DIM "B"	DIM "C"	DIM "F"
NO. 11	48'-0"	24'-0"	26'-0"	19'-2"
NO. 12	47'-10"	23'-11"	25'-10"	19'-1"
NO. 13	47'-9"	23'-10½"	25'-9"	19'-0"
NO. 14	47'-8"	23'-10"	25'-8"	19'-0"
NO. 15	47'-6"	23'-9"	25'-6"	19'-0"

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-15

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

(SPAN 1) BILL OF STEEL

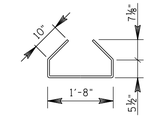
BEAM	BAR	SIZE	NO. REQ'D	LENGTH
NO. 1	A500	5	6	5'-6"
	A700	7	3	48'-3"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 2	A501	5	6	5'-6"
	A700	7	3	47'-8"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 3	A502	5	6	5'-6"
	A700	7	3	47'-1"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 4	A503	5	6	5'-6"
	A700	7	3	46'-6"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 5	A504	5	6	5'-6"
	A700	7	3	45'-11"
	H600	6	80	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"

(SPAN 2) BILL OF STEEL

BEAM	BAR	SIZE	NO. REQ'D	LENGTH
NO. 6	A500	5	6	5'-6"
	A700	7	6	41'-11"
	H600	6	124	5'-7¼"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 7	A501	5	6	5'-6"
	A700	7	6	41'-5"
	H600	6	124	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 8	A502	5	6	5'-6"
	A700	7	6	41'-0"
	H600	6	124	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 9	A503	5	6	5'-6"
	A700	7	6	40'-6"
	H600	6	124	5'-5½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 10	A504	5	6	5'-6"
	A700	7	6	40'-0"
	H600	6	124	5'-4¾"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"

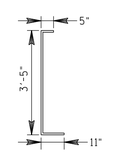
(SPAN 3) BILL OF STEEL

BEAM	BAR	SIZE	NO. REQ'D	LENGTH
NO. 11	A500	5	6	5'-6"
	A700	7	3	47'-6"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 12	A501	5	6	5'-6"
	A700	7	3	47'-4"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 13	A502	5	6	5'-6"
	A700	7	3	47'-3"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 14	A503	5	6	5'-6"
	A700	7	3	47'-2"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"
NO. 15	A504	5	6	5'-6"
	A700	7	3	47'-0"
	H600	6	82	5'-6½"
	H601	6	24	4'-9"
	HA300	3	26	4'-3"

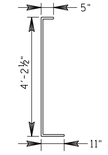


BARS HA300

BARS A



BARS H601



BARS H600

(SPAN 1) ESTIAMTED QUANTITIES - PER BEAM

BEAM	NO. BEAMS REQ'D	PRESTRESSING STRANDS (LOW RELAXATION) LB.	CLASS "P" CONCRETE C.Y.	REINFORCING STEEL LB.
NO. 1	1	522	7	1,215
NO. 2	1	516	7	1,211
NO. 3	1	510	7	1,207
NO. 4	1	504	7	1,204
NO. 5	1	498	7	1,200

(SPAN 2) ESTIAMTED QUANTITIES - PER BEAM

BEAM	NO. BEAMS REQ'D	PRESTRESSING STRANDS (LOW RELAXATION) LB.	CLASS "P" CONCRETE C.Y.	REINFORCING STEEL LB.
NO. 6	1	1,455	12	1,768
NO. 7	1	1,437	12	1,751
NO. 8	1	1,421	12	1,746
NO. 9	1	1,404	12	1,723
NO. 10	1	1,387	11	1,706

(SPAN 3) ESTIAMTED QUANTITIES - PER BEAM

BEAM	NO. BEAMS REQ'D	PRESTRESSING STRANDS (LOW RELAXATION) LB.	CLASS "P" CONCRETE C.Y.	REINFORCING STEEL LB.
NO. 11	1	515	7	1,210
NO. 12	1	513	7	1,209
NO. 13	1	512	7	1,208
NO. 14	1	511	7	1,208
NO. 15	1	510	7	1,207

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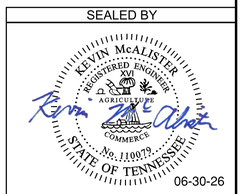


PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
BEAM TABLES AND ESTIMATED QUANTITIES
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-91

6/24/2026 4:15:56 PM
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_14 BEAM TABLES.DGN

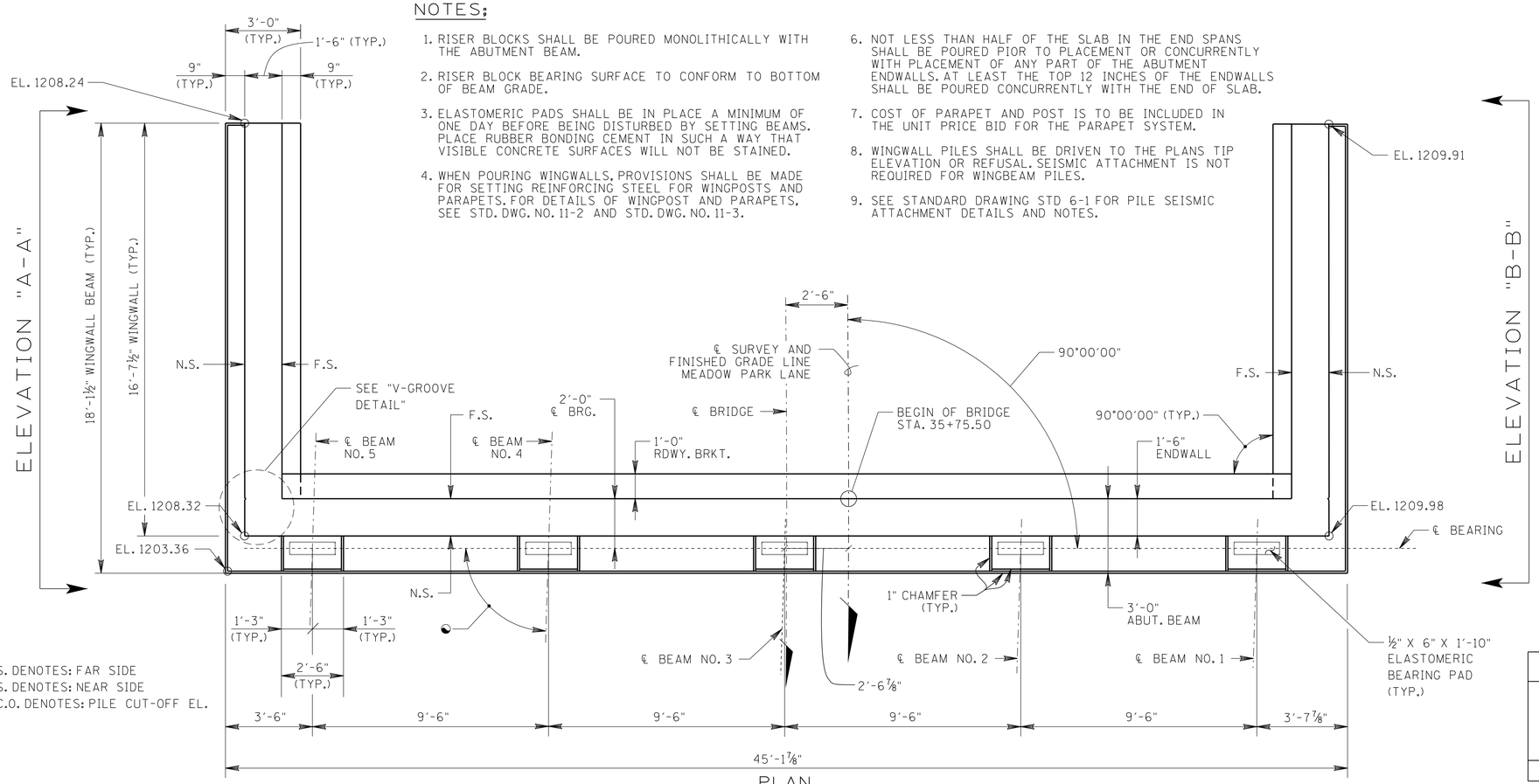
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-16

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

NOTES:

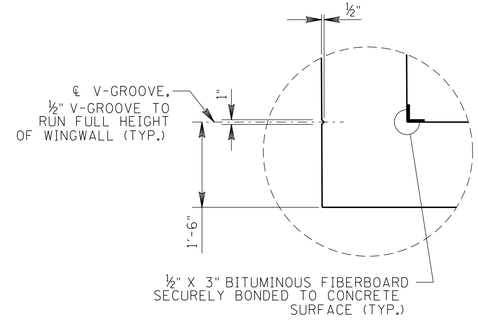
1. RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOST AND PARAPETS, SEE STD. DWG. NO. 11-2 AND STD. DWG. NO. 11-3.
6. NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PIOR TO PLACEMENT OR CONCURRENTLY WITH PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
7. COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
8. WINGWALL PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.
9. SEE STANDARD DRAWING STD 6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.



F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE
P.C.O. DENOTES: PILE CUT-OFF EL.

PLAN
(N.T.S.)

◒ DENOTES; FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-84

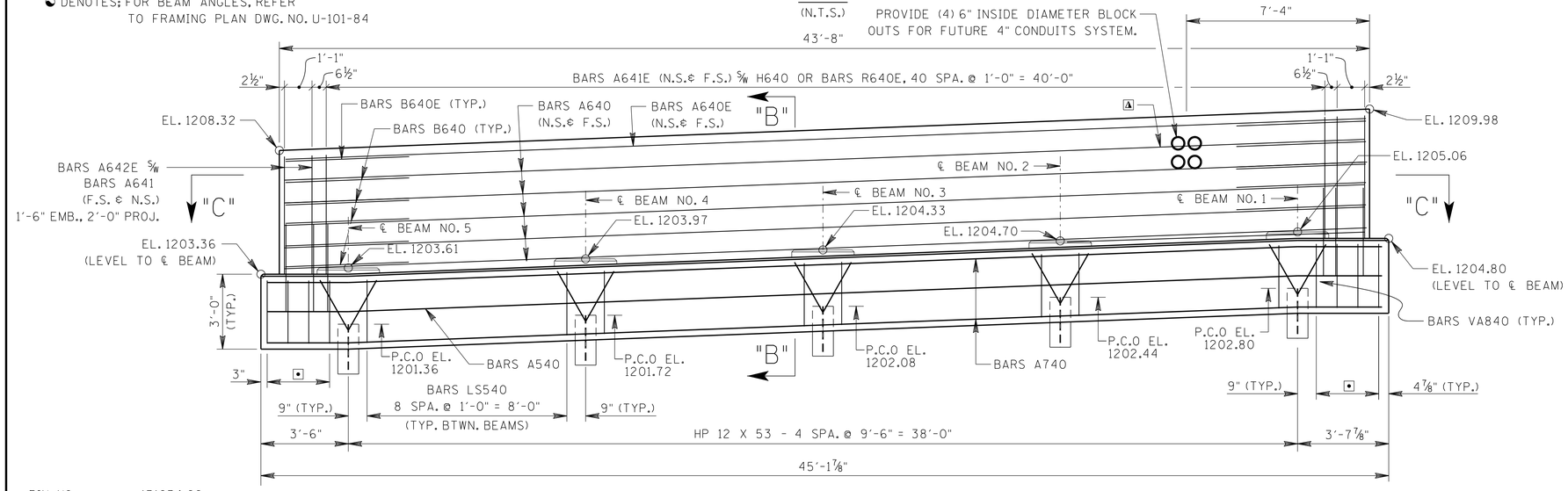


"V-GROOVE DETAIL"
(N.T.S.)

ELEVATION "B-B"

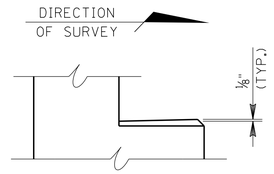
ESTIMATED ABUTMENT QUANTITIES

LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 1	48	1,725	5,696



ELEVATION
(LOOKING BACK ON SURVEY)

⊡ DENOTES: BARS LS540 3 SPA. @ 0'-10" = 2'-6"
△ DENOTES: FIELD CUT OR ADJUST BARS FOR UTILITY BLOCKOUT IF NECESSARY (TYP.)



RISER BLOCK SLOPE DETAIL
(TYP. @ ABUT. NO. 1 ONLY)

SEALED BY
KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
ABUTMENT NO. 1
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

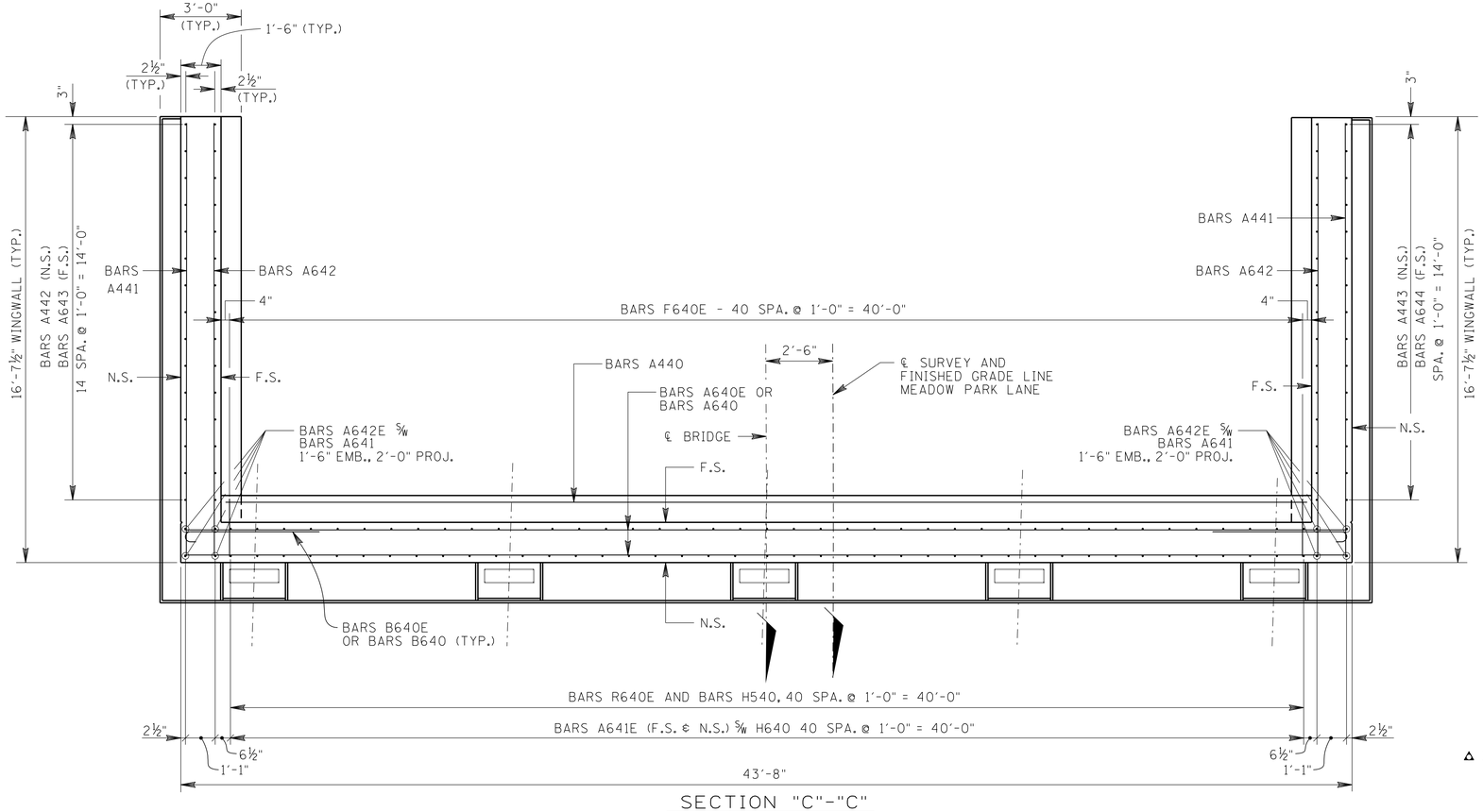
U-101-92

6/24/2026 4:15:59 PM
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_15 ABUTMENTNO.1PLANELEV.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-17

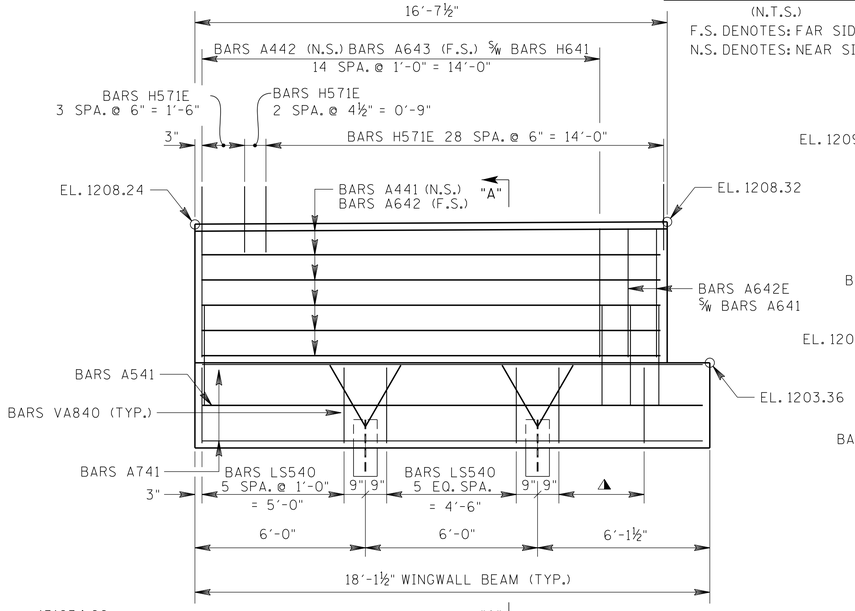
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



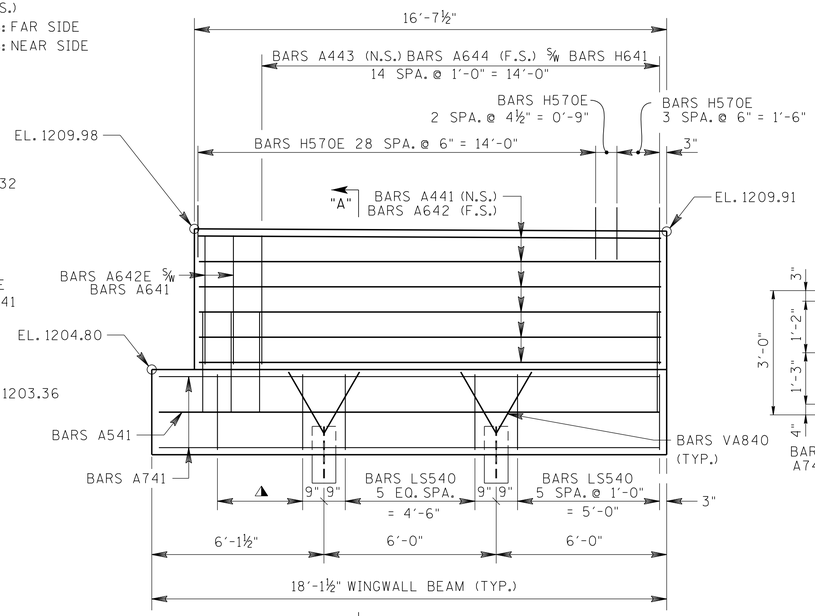
SECTION "C"-"C"
(N.T.S.)

F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE

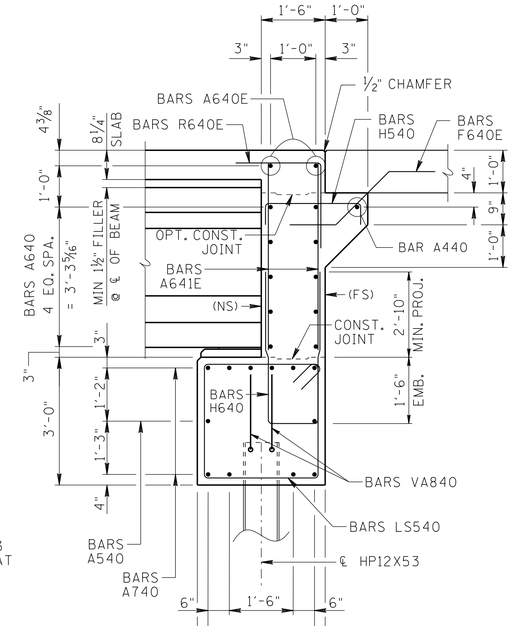


ELEVATION "A"-"A"
(N.T.S.)

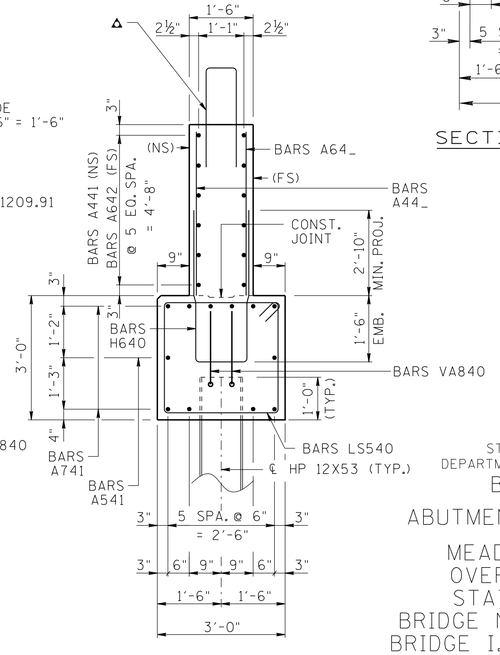
△ DENOTES: BARS LS540 3 SPA. @ 1'-0" = 3'-0"



ELEVATION "B"-"B"
(N.T.S.)

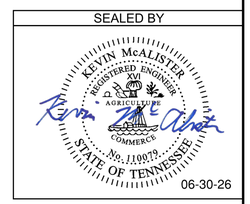


SECTION "B"-"B"
(N.T.S.)



SECTION "A"-"A"
(N.T.S.)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

ABUTMENT NO. 1 DETAILS

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-93

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

F:\37\37743\37743702\04_CADTRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_16 ABUTMENTNO.IDETAIL.DGN
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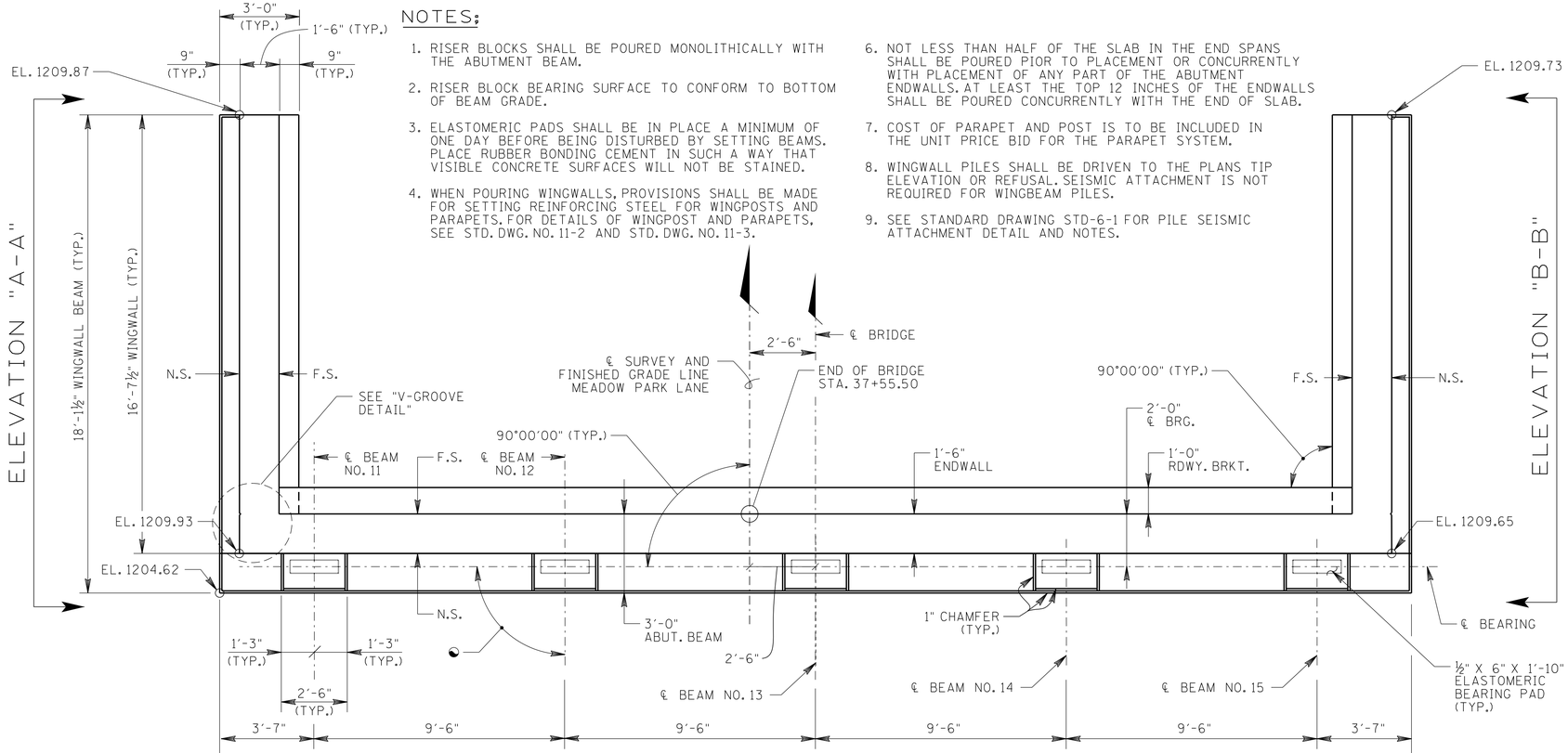
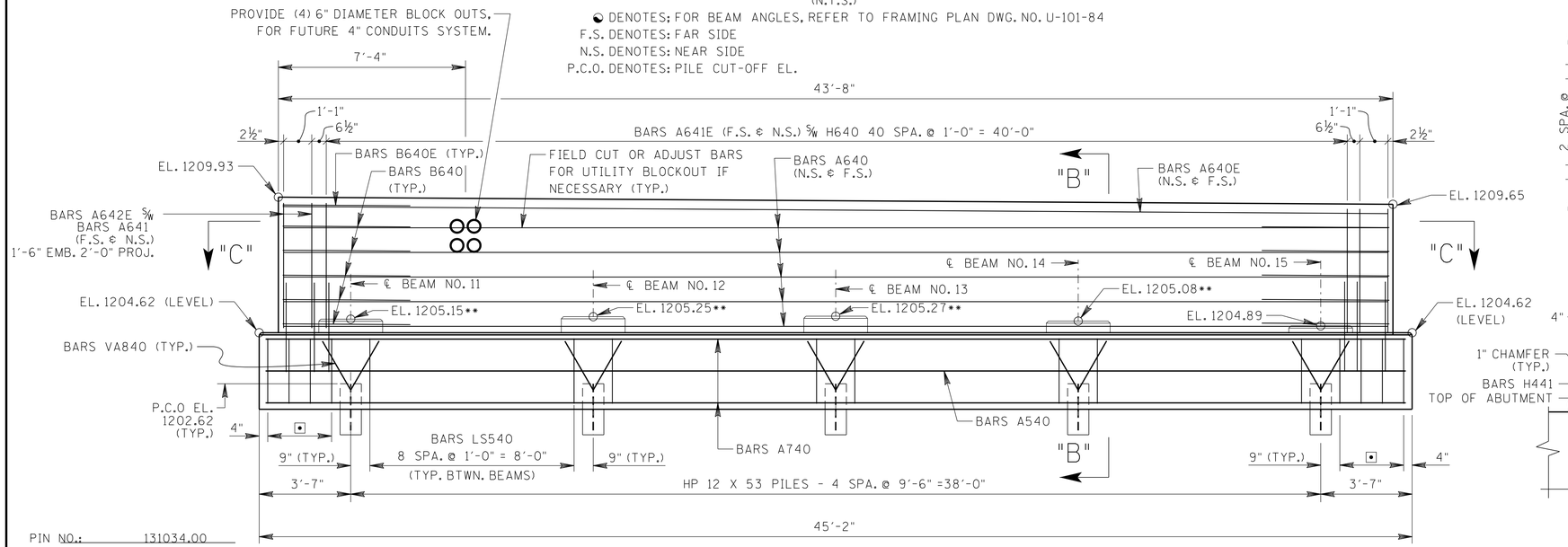
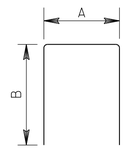
NOTES:

1. RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOST AND PARAPETS, SEE STD. DWG. NO. 11-2 AND STD. DWG. NO. 11-3.
6. NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PIOR TO PLACEMENT OR CONCURRENTLY WITH PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
7. COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
8. WINGWALL PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.
9. SEE STANDARD DRAWING STD-6-1 FOR PILE SEISMIC ATTACHMENT DETAIL AND NOTES.





⊡ DENOTES: BARS LS540-3 SPA. @ 10" = 2'-6"
** DENOTES: REINFORCED RISER BLOCK. SEE REINFORCED RISER DETAIL



BARS H

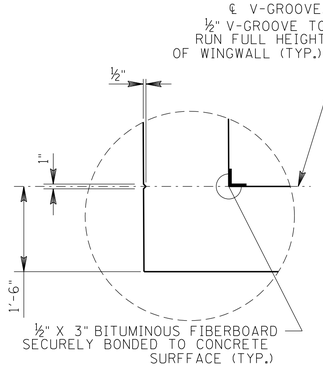
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-18

REVISIONS

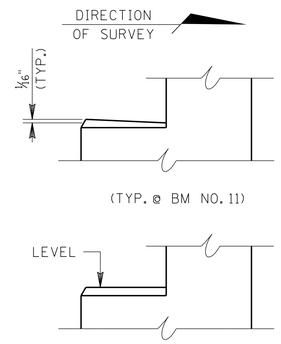
NO.	DATE	BY	BRIEF DESCRIPTION

ESTIMATED ABUTMENT QUANTITIES

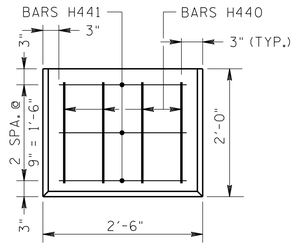
LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 2	48	1,766	5,794



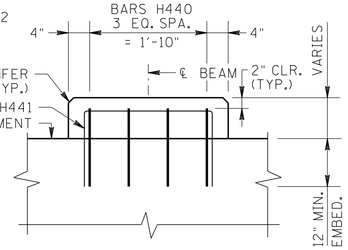
"V-GROOVE DETAIL"
(N.T.S.)



RISER BLOCK SLOPE DETAIL
(N.T.S.)
(TYP. @ ABUT. NO. 2 ONLY)



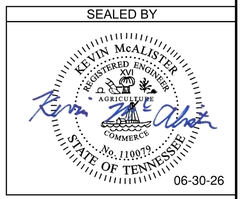
PLAN



ELEVATION

REINFORCED RISER DETAIL
(N.T.S.)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
ABUTMENT NO. 2
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-94

PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

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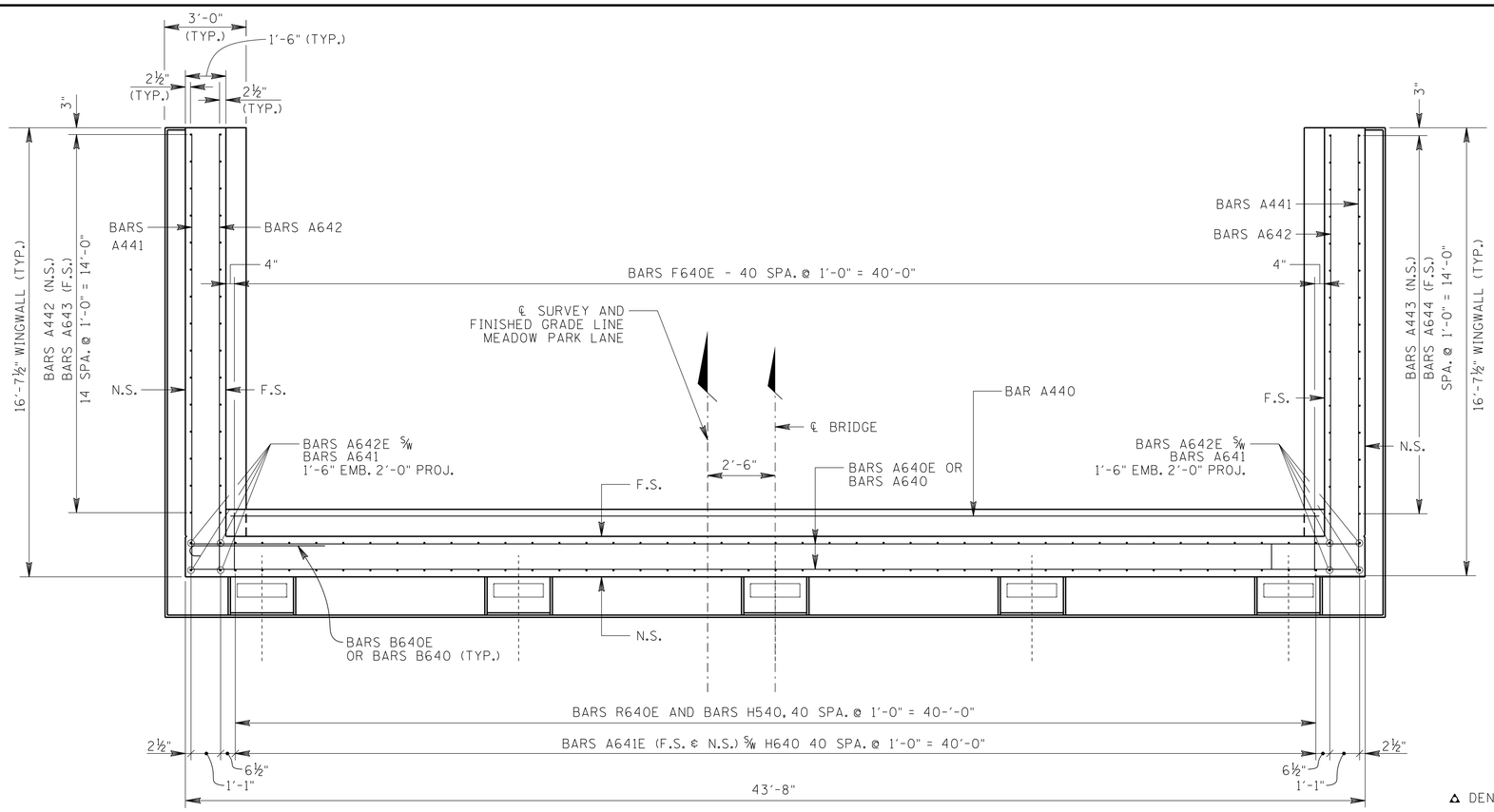
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_17 ABUTMENTNO.2PLANELEV.DGN

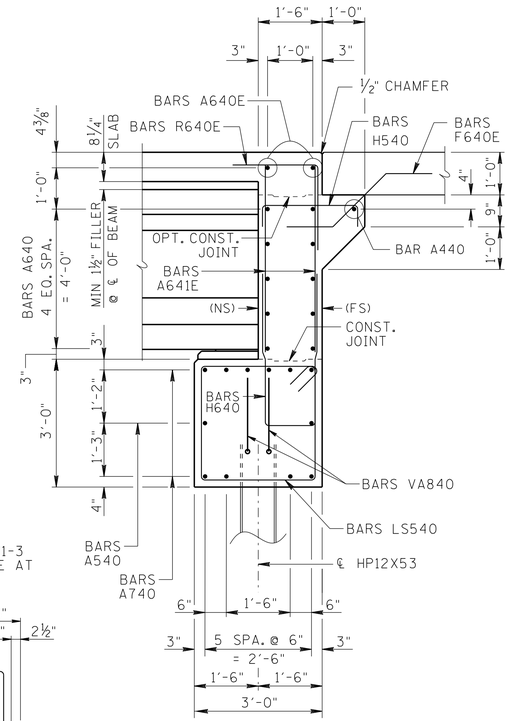
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-19

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

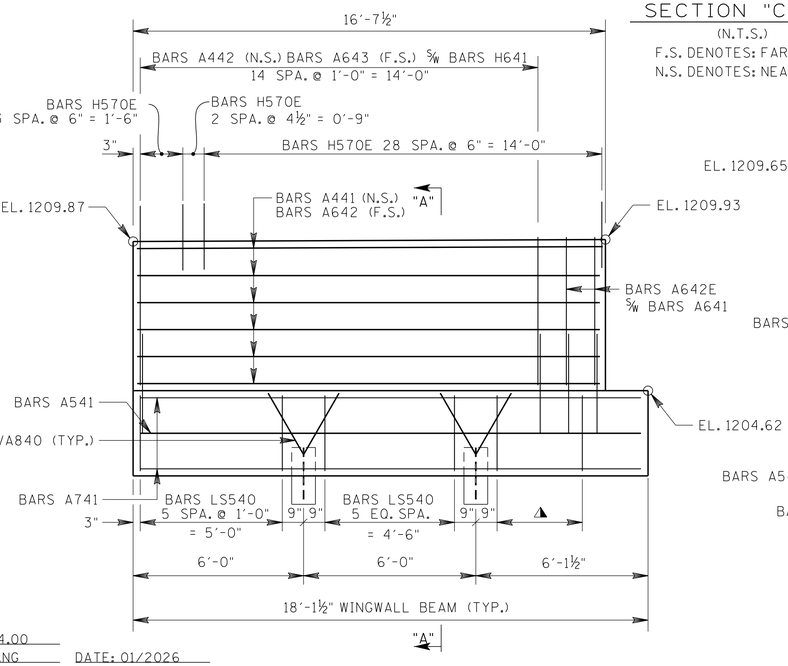


SECTION "C"-"C"
(N.T.S.)
F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE



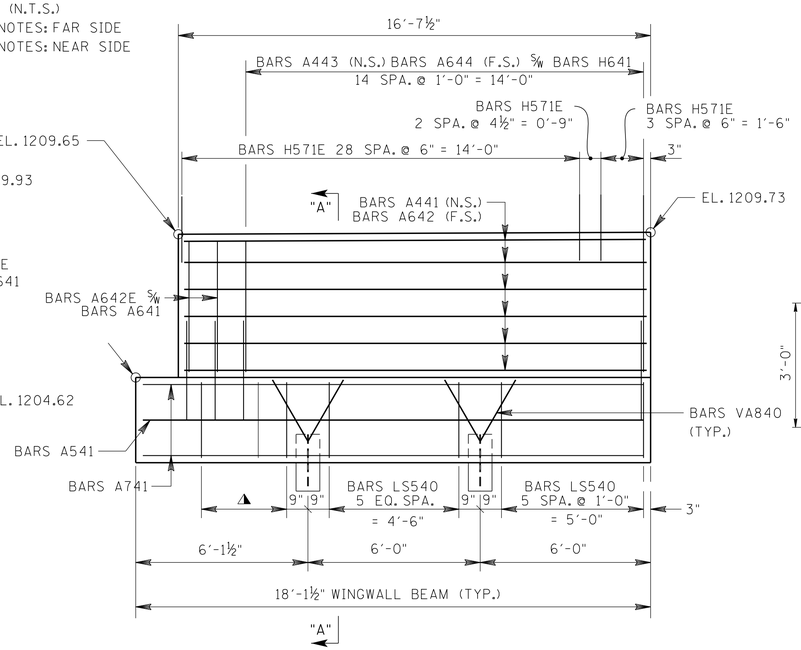
SECTION "B"-"B"
(N.T.S.)

△ DENOTES: BARS H571E AT SDG 11-3 RAIL AND BARS H570E AT SDG 11-2 RAIL.

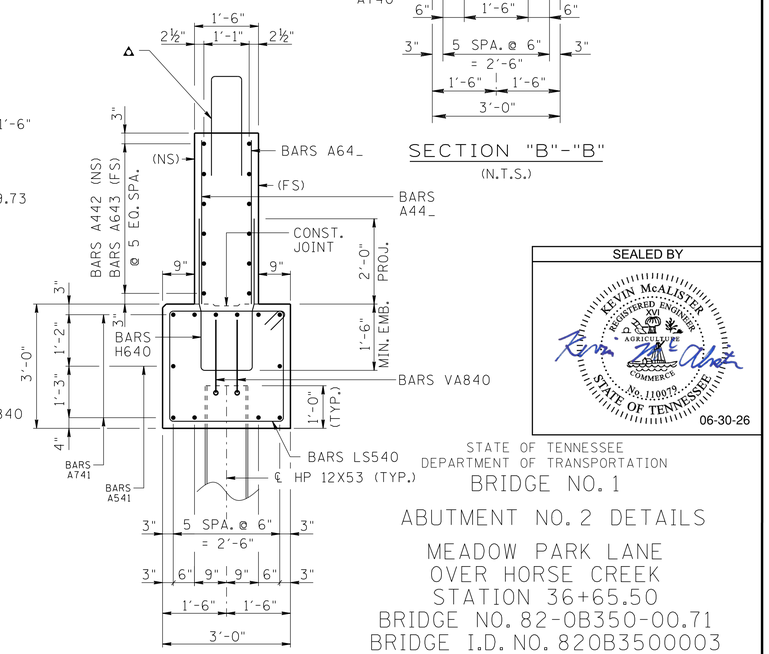


ELEVATION "A"-"A"
(N.T.S.)

△ DENOTES: BARS LS540 3 SPA. @ 1'-0" = 3'-0"



ELEVATION "B"-"B"
(N.T.S.)



SECTION "A"-"A"
(N.T.S.)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

ABUTMENT NO. 2 DETAILS

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-95

PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

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F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_18 ABUTMENTNO.2DETAIL.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-20

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

PRE-DRILLED PILE NOTES

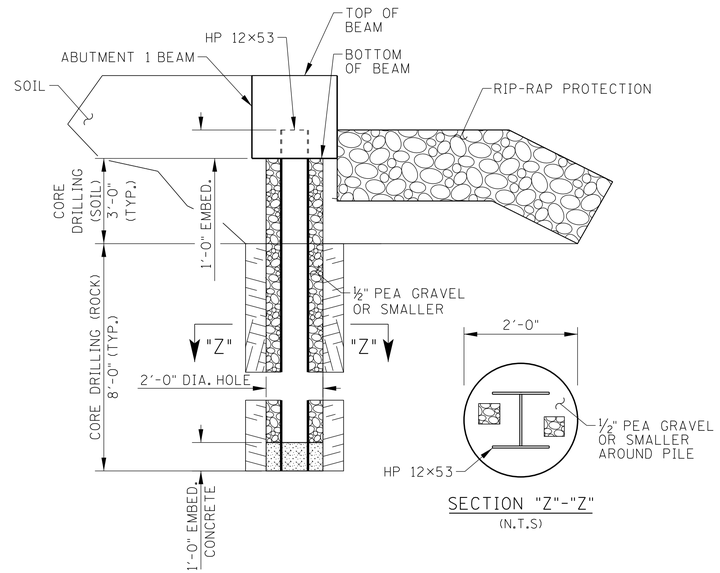
1. ALL PILES AT ABUTMENT NO. 2 SHALL BE INSTALLED ACCORDING TO THE DETAILS SHOWN ON THIS SHEET. STEEL PILE TIPS ARE NOT REQUIRED.

2. A 2'-0" DIAMETER HOLE (10'-0" MINIMUM IN LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF CORE DRILLING (ROCK) AND CORE DRILLING (SOIL) WILL VARY DUE TO LOCATION OF ROCK LINE.

3. THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE, AND THE PILE SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.

4. AS SOON AS THE CONCRETE HAS OBTAINED ITS INITIAL SET AND IT IS ABLE TO STABILIZE THE PILE TIP LOCATION IN THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH PEA GRAVEL. THE TOP OF THE PILE SHALL BE BRACED IN A MANNER THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

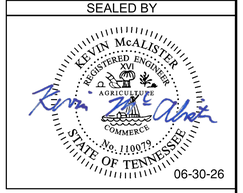
5. BASIS FOR PAYMENT:
THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES, PILE END ENCASEMENT, BACKFILLING WITH PEA GRAVEL, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NO. 204-14, CORE DRILLING FOR PILES (ROCK).



SECTION "Z"-"Z"
(N.T.S)

PRE-DRILLED PILE DETAILS
(N.T.S)

SEALED BY

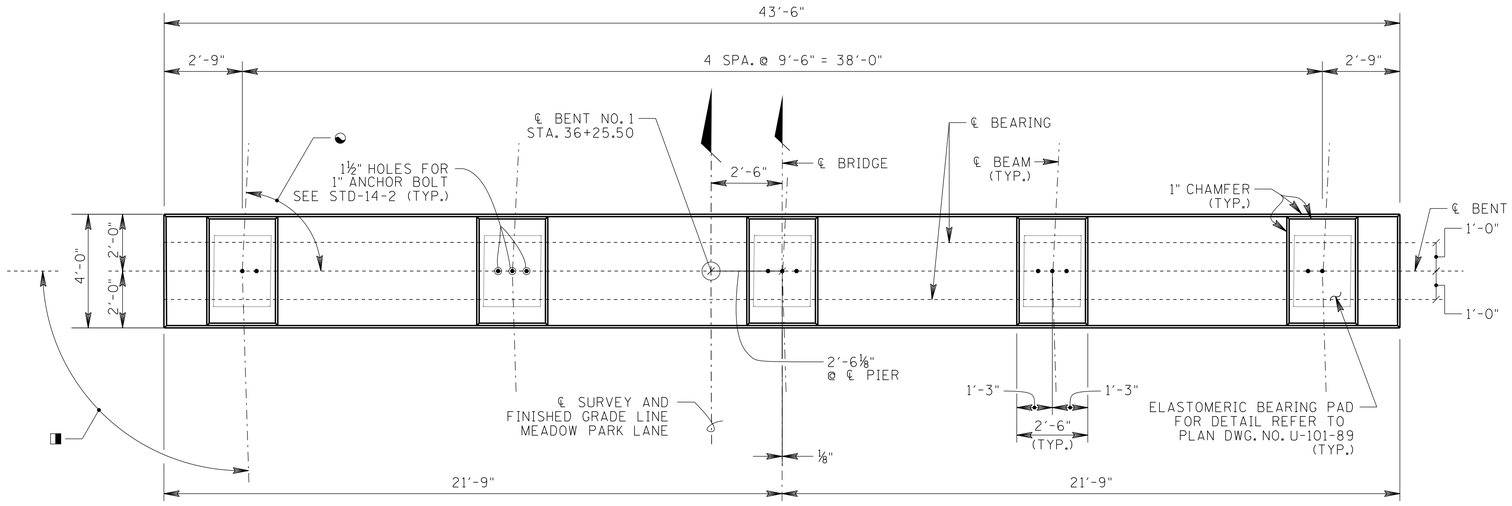


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
ABUTMENT NO. 2
STEEL PILE DETAILS
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-95A

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

6/24/2026 4:16:12 PM
F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_18A ABUTMENTNO.2STEELPILEDETAIL.DGN



PLAN

(N.T.S.)

◨ DENOTES: 91°47'26" BEAM ANGLE MEASURED FROM ℄ BEAM TO ℄ PIER.

◓ DENOTES; FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-84

▲ DENOTES: BARS T550
3 EQ. SPA. = 2'-9 11/16" (COL. 1)
2 EQ. SPA. = 2'-0 7/8" (COL. 2)
2 EQ. SPA. = 1'-4 3/8" (COL. 3)

Ⓐ DENOTES: BARS T550, 7 SPA. @ 4" MAX = 2'-4"
Ⓑ DENOTES: BARS LS550, 7 SPA. 6" = 3'-6"
Ⓒ DENOTES: BARS H550, 4 SPA. 1'-0" = 4'-0"
Ⓓ DENOTES: 11 BARS T550
10 SPA. @ 4" = 3'-4"

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
94	17,230

** DENOTES: REINFORCED RISER BLOCK, SEE REINFORCED RISER DETAIL

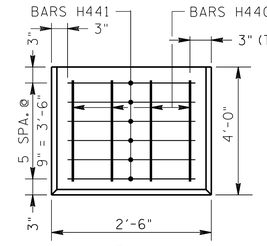
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-21

REVISIONS

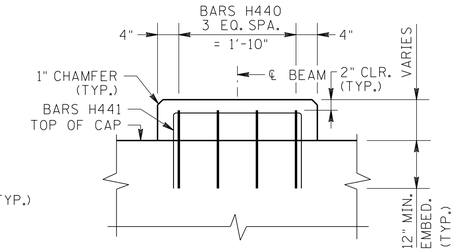
NO.	DATE	BY	BRIEF DESCRIPTION

NOTES:

1. WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
2. RISER BLOCKS TO BE POURED MONLITHICALLY WITH BENT CAP.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. COLUMN STEEL SHALL EXTEND 3'-0" INTO BENT CAP.



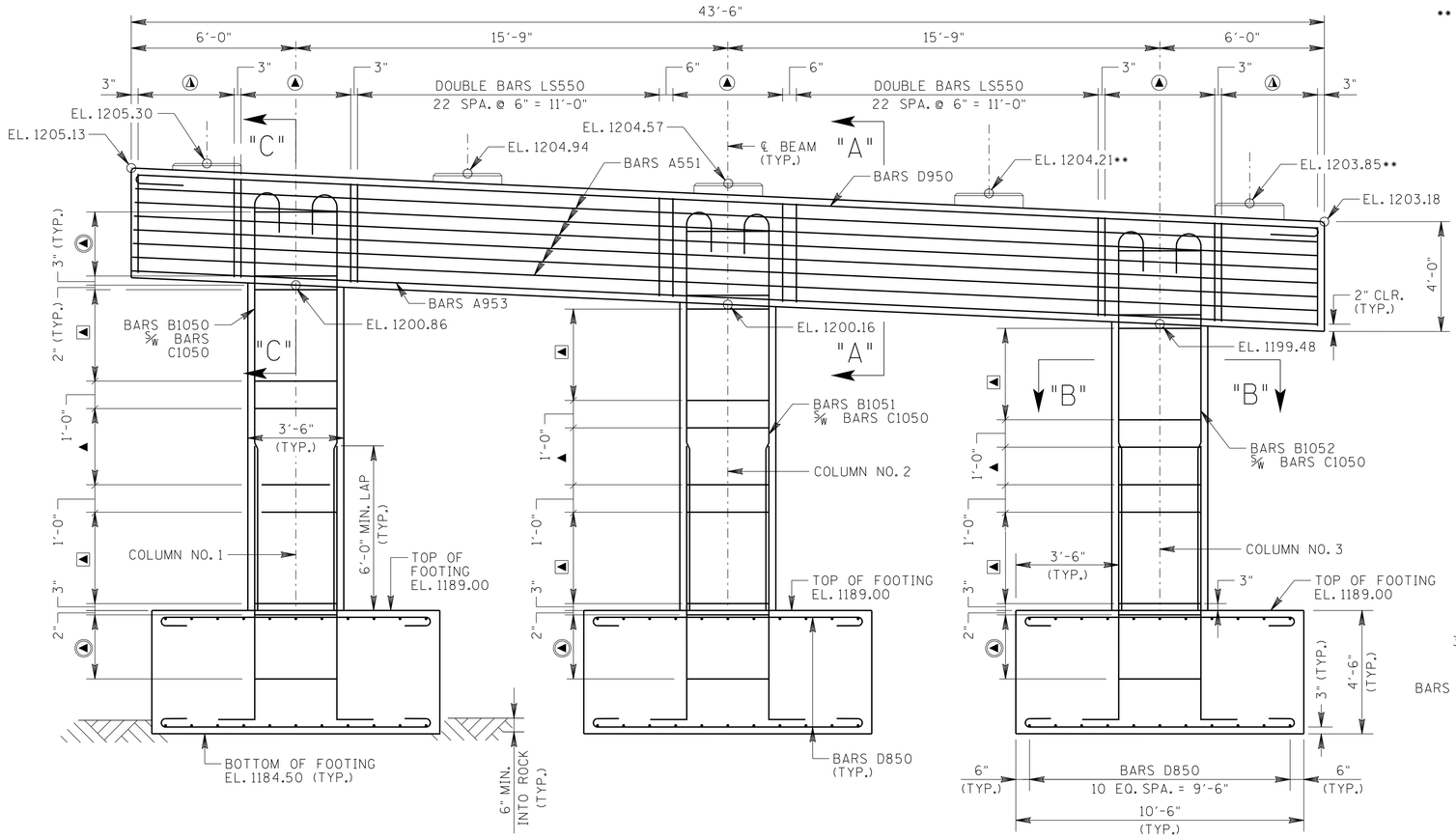
PLAN



ELEVATION

REINFORCED RISER DETAIL

(N.T.S.)

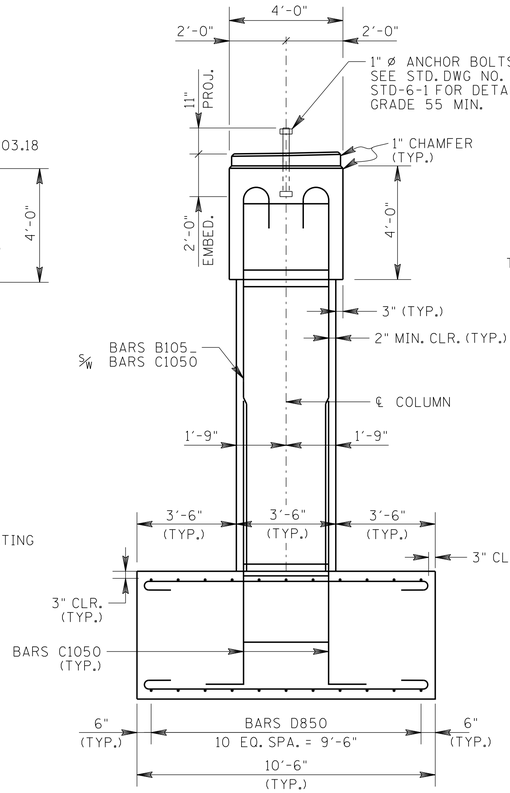


ELEVATION

(N.T.S.)

(LOOKING FORWARD ON SURVEY)

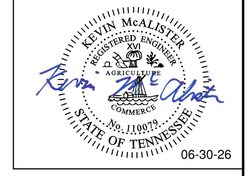
NOTE: SEE DWG U-101-98 FOR SECTION "A"-"A", "B"-"B", AND "C"-"C" DETAILS



END ELEVATION

(N.T.S.)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

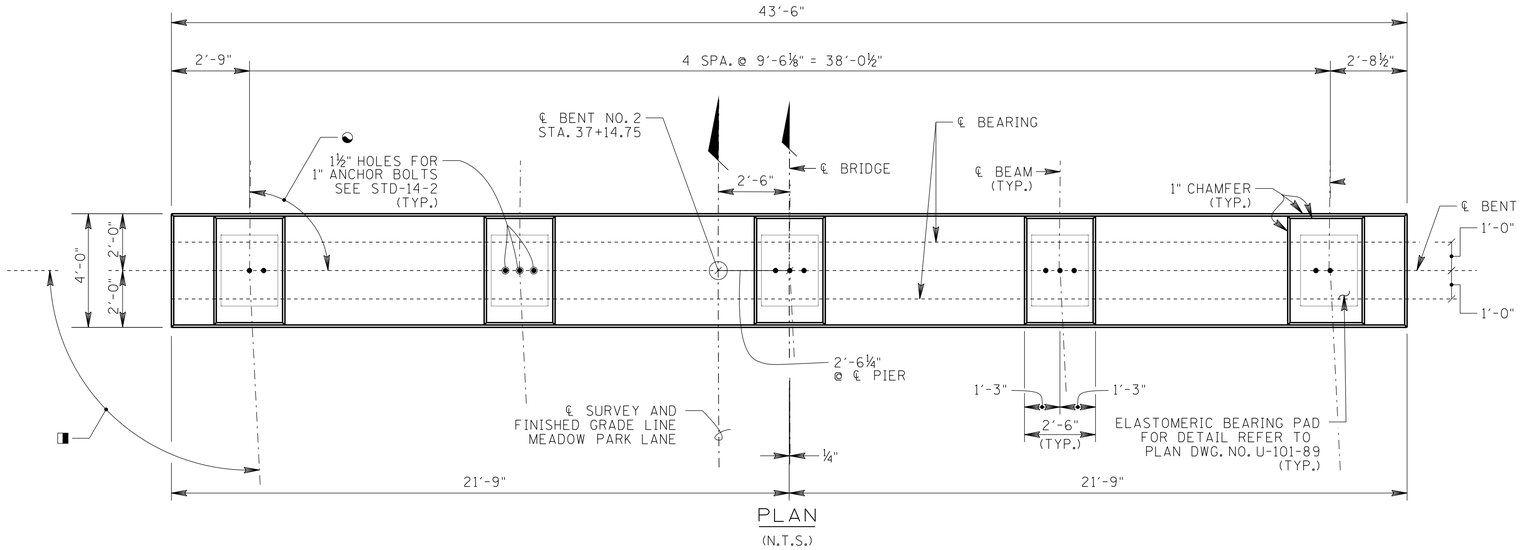
BENT NO. 1

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-96

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

6/24/2026 4:16:15 PM
F:\37\37743\374302\04_CAD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_19 BENTNO.1PLANELEV.DGN



PLAN

(N.T.S.)

◨ DENOTES: 91°47'26" BEAM ANGLE MEASURED FROM ℄ BEAM TO ℄ PIER.

◒ DENOTES; FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-84

▲ DENOTES: BARS T550
2 EQ. SPA. = 1'-11¼" (COL. 1)
2 EQ. SPA. = 1-7⅜" (COL. 2)
2 EQ. SPA. = 1'-3⁹⁄₁₆" (COL. 3)

▲ DENOTES: 11 BARS T550
10 SPA. @ 4" = 3'-4"

Ⓐ DENOTES: BARS T550, 7 SPA. @ 4" = 2'-4"
Ⓐ DENOTES: BARS LS550, 7 SPA. 6" = 3'-6"
Ⓐ DENOTES: BARS H550, 4 SPA. 1'-0" = 4'-0"

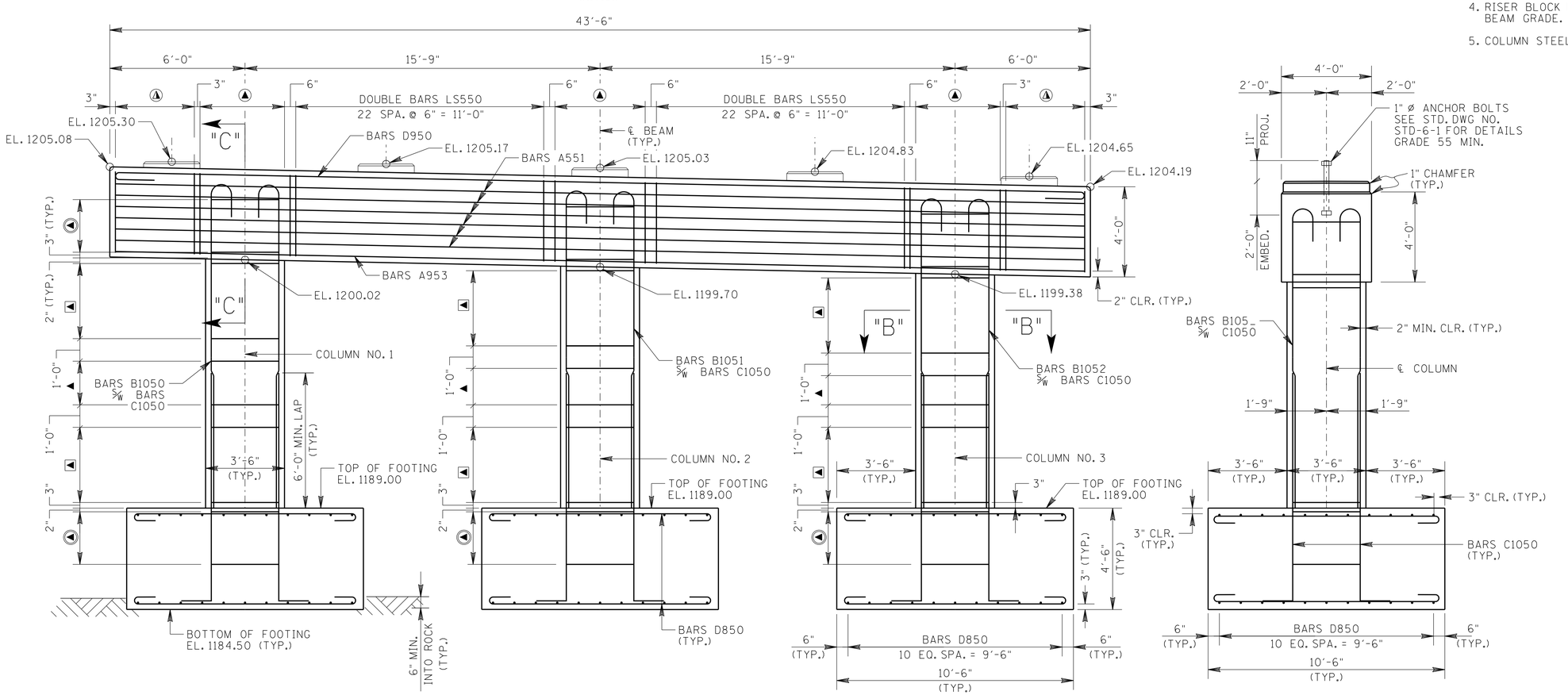
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-22

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

NOTES;

1. WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
2. RISER BLOCK(S) TO BE POURED MONLITHICALLY WITH CAP BEAM.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. COLUMN STEEL TO EXTEND 3'-0" INTO CAP BEAM.



ELEVATION

(N.T.S.)

(LOOKING FORWARD ON SURVEY)

NOTE: SEE DWG U-101-98 FOR SECTIONS "A"-"A", "B"-"B", AND "C"-"C" DETAILS

END ELEVATION

(N.T.S.)

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
94	17,129

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

BENT NO. 2

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-97

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

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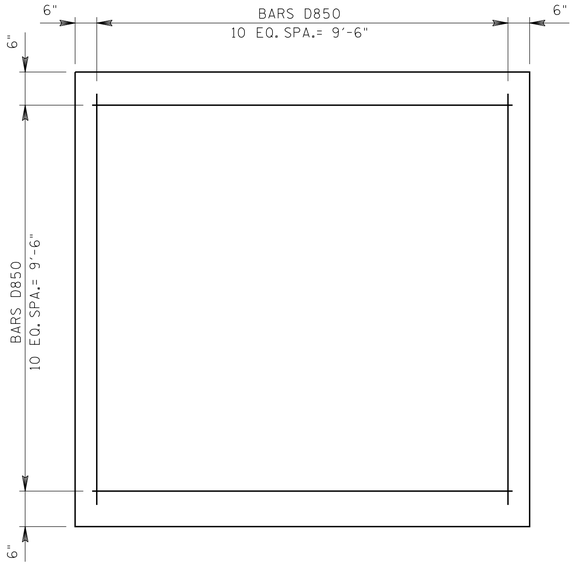
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-23

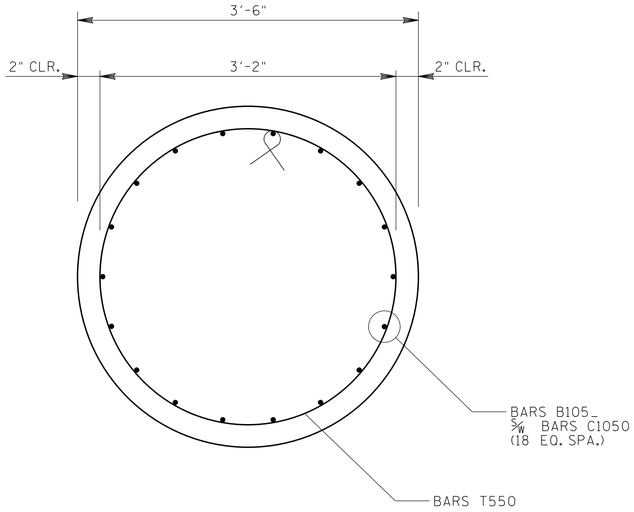
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PLAN OF FOOTING

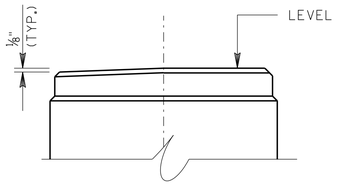
(N.T.S)
(BENT NO.1 AND NO.2)
(10'-6" X 10'-6" X 4'-6")



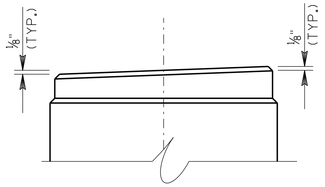
SECTION "B"-"B"

(N.T.S)

DIRECTION OF SURVEY



(TYP. @ BEAM NO. 6)



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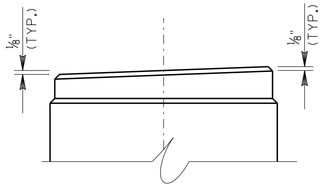

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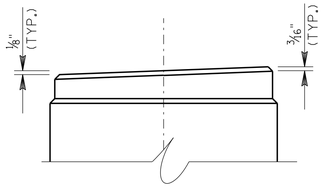

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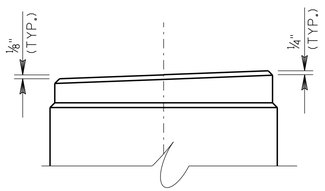
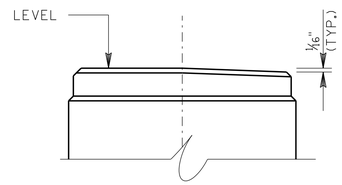


(TYP. @ BEAM NO. 10)

RISER BLOCK SLOPE

(N.T.S)
(BENT NO. 1 ONLY)

DIRECTION OF SURVEY



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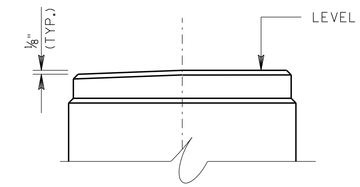

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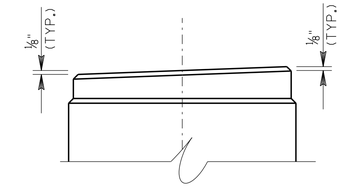

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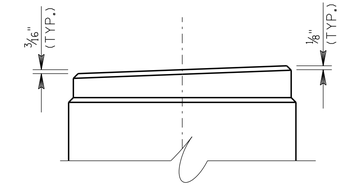

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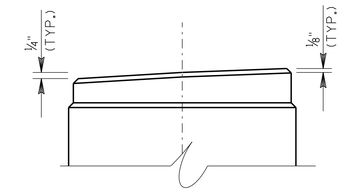
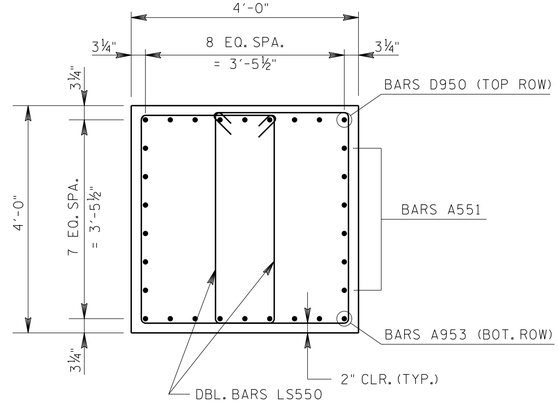


(TYP. @ BEAM NO. 15)

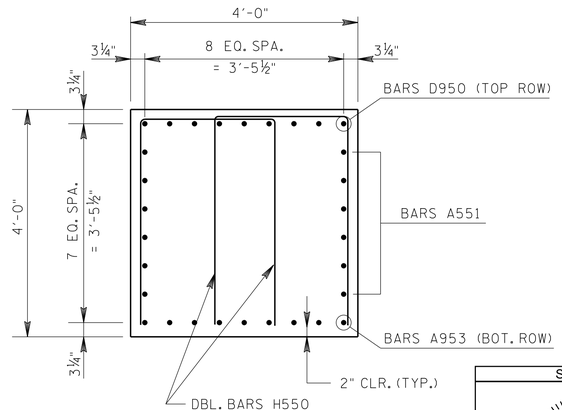
RISER BLOCK SLOPE

(N.T.S)
(BENT NO. 2 ONLY)



SECTION "A"-"A"

(N.T.S)



SECTION "C"-"C"

(N.T.S)

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

BENTS NO. 1 AND NO. 2 DETAILS

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-98

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

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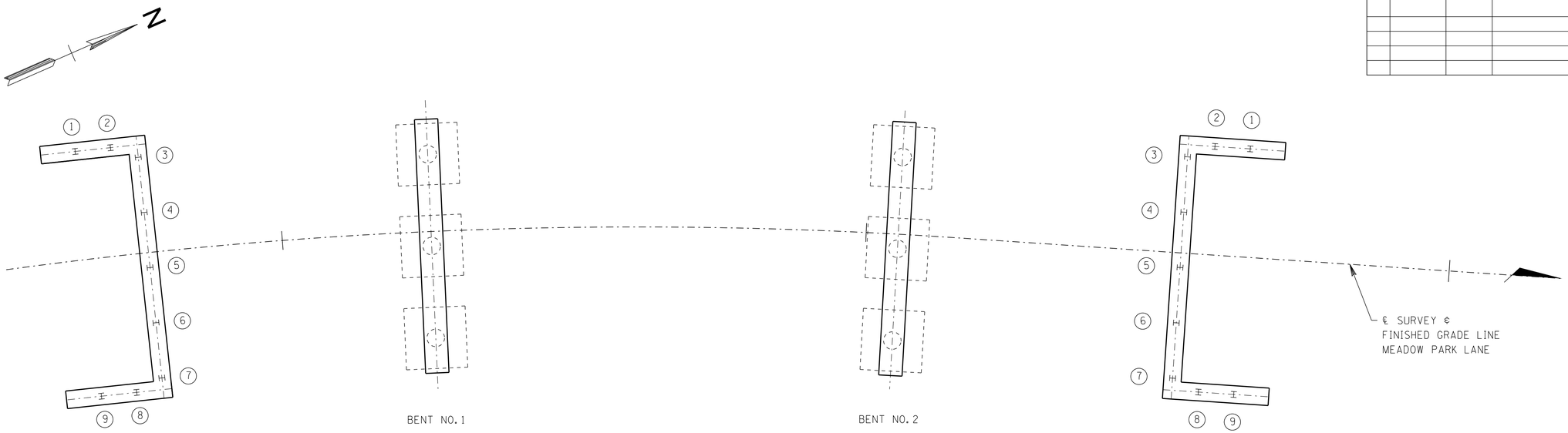
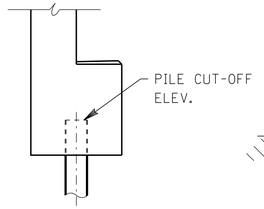
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-24

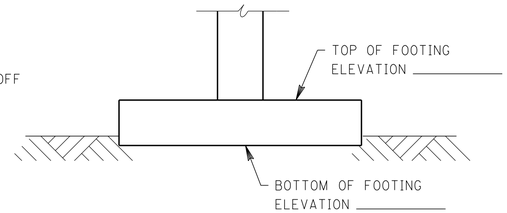
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

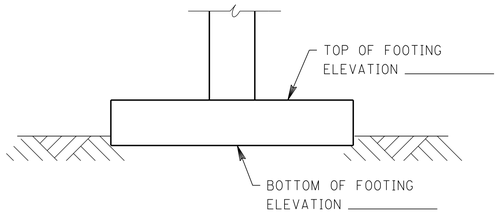




TYP. @ ABUTMENT



PIER NO. 1



PIER NO. 2

NOTE:

THIS DRAWING IS FOR FOUNDATION INFORMATION ONLY AND IS NOT TO BE USED AS A LAYOUT.

NOTE: TO CONTRACTOR AND CONSTRUCTION OFFICE
THE BLANKS ON THIS SHEET ARE TO BE FILLED IN BY THE CONSTRUCTION OFFICE AND/OR FIELD ENGINEER GIVING AS-BUIILT CONDITIONS. AFTER COMPLETION IT IS TO BE SENT TO THE DIVISION OF STRUCTURES TO BECOME PART OF THE FINAL BRIDGE DOCUMENTS.

TABLE OF PILE DATA

		1	2	3	4	5	6	7	8	9
ABUTMENT NO. 1	PILE CUT-OFF ELEVATION									
	PILE TIP ELEVATION									
	IN PLACE PILE LENGTH									
ABUTMENT NO. 2	PILE CUT-OFF ELEVATION									
	PILE TIP ELEVATION									
	IN PLACE PILE LENGTH									

SEALED BY

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

FINAL FOUNDATION DATA

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-99

PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

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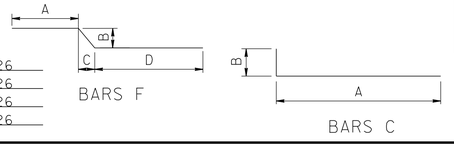
SUPERSTRUCTURE

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		EPOXY						
A400E	SIDEWALK	4	18	60'-0"				60'-0"
A401E	SIDEWALK	4	6	56'-5"				56'-5"
A402E	SIDEWALK	4	229	4'-8"				4'-8"
A500E	TOP & BOT. SLAB	5	96	23'-6"				23'-6"
A501E	TOP & BOT. SLAB	5	48	46'-8"				46'-8"
A502E	TOP & BOT. SLAB	5	722	43'-4"				43'-4"
A503E	BOT. SLAB	5	134	60'-0"				60'-0"
A504E	BOT. SLAB	5	67	46'-10"				46'-10"
A505E	BOT. SLAB	5	67	23'-4"				23'-4"
A800E	TOP SLAB	8	178	50'-0"				50'-0"
HC570E	OVERHANG	5	241	1'-0"	0'-6"	0'-10"		2'-4"
HC571E	OVERHANG	5	241	1'-6"	0'-6"	0'-10"		2'-10"
K500E	HAUNCH	5	52	0'-10"	1'-0"	0'-6½"	0'-6½"	2'-11"
K501E	HAUNCH	5	5	0'-10"	1'-0"	0'-7"	0'-7"	3'-0"
		REGULAR						
A500	DIAPHRAGM	5	96	8'-7"				8'-7"
A501	DIAPHRAGM	5	20	44'-8"				44'-8"
LS400	DIAPHRAGM	4	84	1'-1⅝"	3'-7½"			10'-4"
LS401	DIAPHRAGM	4	20	1'-1⅝"	1'-1"			5'-3"
LS403	DIAPHRAGM	4	108	0'-7⅝"	2'-1"			6'-3"

ABUTMENT NO. 1

		SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		EPOXY						
A640E	ENDWALL	6	2	43'-4"				43'-4"
A641E	ENDWALL	6	82	4'-9½"				4'-9½"
A642E	ENDWALL	6	8	4'-9½"				4'-9½"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL	6	41	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
R640E	ENDWALL	6	41	3'-2"	3'-0"			6'-2"
H570E	W.W. STD-11-2	5	34	0'-8½"	1'-10"			4'-4½"
H571E	W.W. STD-11-3	5	34	0'-8½"	2'-4"			5'-4½"
		REGULAR						
A440	RDWY BRACKET	4	1	40'-4"				40'-4"
A441	WINGWALL	4	12	16'-2"				16'-2"
A442	WINGWALL	4	15	4'-8½"				4'-8½"
A443	WINGWALL	4	15	4'-11"				4'-11"
A540	ABUTMENT BEAM	5	2	44'-8"				44'-8"
A541	WINGWALL BEAM	5	4	17'-7½"				17'-7½"
A640	ENDWALL	6	10	43'-3¾"				43'-3¾"
A641	WINGWALL BEAM	6	8	3'-6"				3'-6"
A642	WINGWALL	6	12	16'-2"				16'-2"
A643	WINGWALL	6	15	4'-8½"				4'-8½"
A644	WINGWALL	6	15	4'-11"				4'-11"
A740	ABUTMENT BEAM	7	10	44'-8"				44'-8"
A741	WINGWALL BEAM	7	20	17'-7½"				17'-7½"



ABUTMENT NO. 1 (CONT.)

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		REGULAR						
B640	ENDWALL	6	10	5'-0"				5'-8"
H540	ENDWALL	5	41	2'-2"	0'-7"			3'-4"
H640	ABUTMENT AND W.W. BEAM	6	71	1'-2"	4'-4"			9'-10"
LS540	ABUTMENT AND W.W. BEAM	5	76	2'-8"	2'-8"			11'-8"
VA840	ABUTMENT AND W.W. BEAM	8	18	2'-6"				5'-0"

ABUTMENT NO. 2

		SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		EPOXY						
A640E	ENDWALL	6	2	43'-4"				43'-4"
A641E	ENDWALL	6	82	4'-9½"				4'-9½"
A642E	ENDWALL	6	8	4'-9½"				4'-9½"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL	6	41	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
R640E	ENDWALL	6	41	3'-2"	3'-0"			6'-2"
H570E	W.W. STD-11-2	5	34	0'-8½"	1'-10"			4'-4½"
H571E	W.W. STD-11-3	5	34	0'-8½"	2'-4"			5'-4½"
		REGULAR						
A440	RDWY BRACKET	4	1	40'-4"				40'-4"
A441	WINGWALL	4	12	16'-2"				16'-2"
A442	WINGWALL	4	15	5'-0"				5'-0"
A443	WINGWALL	4	15	4'-10"				4'-10"
A540	ABUTMENT BEAM	5	2	44'-8"				44'-8"
A541	WINGWALL BEAM	5	4	17'-7½"				17'-7½"
A640	WINGWALL BEAM	6	10	43'-4"				43'-4"
A641	WINGWALL BEAM	6	8	3'-6"				3'-6"
A642	WINGWALL	6	12	16'-2"				16'-2"
A643	WINGWALL	6	15	5'-0"				5'-0"
A644	WINGWALL	6	15	4'-10"				4'-10"
A740	ABUTMENT BEAM	7	10	44'-8"				44'-8"
A741	WINGWALL BEAM	7	20	17'-7½"				17'-7½"
B640	ENDWALL	6	10	5'-0"				5'-8"
H440	RISER	4	16	1'-7"	1'-7"			4'-9"
H441	RISER	4	12	2'-0"	1'-6"			5'-0"
H540	ENDWALL	5	41	2'-2"	0'-7"			3'-4"
H640	ABUTMENT AND W.W. BEAM	6	41	1'-2"	4'-4"			9'-10"
LS540	ABUTMENT AND W.W. BEAM	5	76	2'-8"	2'-8"			11'-8"
VA840	ABUTMENT AND W.W. BEAM	8	18	2'-6"				5'-0"

BENT NO. 1

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		REGULAR						
A551	CAP	5	12	43'-3"				43'-3"
A953	CAP	9	9	43'-3"				43'-3"
B1050	COLUMN	10	18	14'-9"				16'-2"
B1051	COLUMN	10	18	14'-2"				15'-7"

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTE: DIMENSIONS SHOWN ON THIS SHEET ARE OUTSIDE TO OUTSIDE OF BARS. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY, EXCEPT AS NOTED.

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-25

REVISIONS

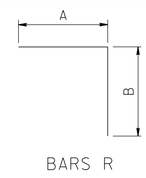
NO.	DATE	BY	BRIEF DESCRIPTION

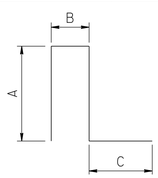
BENT NO. 1 (CONT.)

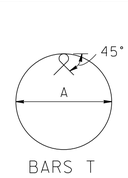
BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		REGULAR						
B1052	COLUMN	10	18	13'-5"				14'-10"
C1050	COLUMN	10	54	10'-1"	1'-3"			11'-11"
D850	FOOTING	8	132	10'-0"				11'-10"
D950	CAP	9	9	43'-3"				45'-9"
H440	RISER	4	8	1'-7"	1'-6"			4'-8"
H441	RISER	4	12	2'-0"	1'-6"			5'-0"
H550	CAP	5	30	2'-4"	3'-8"			9'-8"
LS550	CAP	5	124	2'-4"	3'-8"			12'-9"
T550	COLUMN	3	124	3'-2"				10'-10"

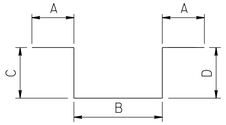
BENT NO. 2

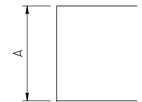
		SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
		REGULAR						
A551	CAP	5	12	43'-3"				43'-3"
A953	CAP	9	9	43'-3"				43'-3"
B1050	COLUMN	10	18	13'-11"				15'-4"
B1051	COLUMN	10	18	13'-9"				15'-2"
B1052	COLUMN	10	18	13'-5"				14'-10"
C1050	COLUMN	10	54	10'-1"	1'-10"			11'-11"
D850	FOOTING	8	132	10'-0"				11'-10"
D950	CAP	9	9	43'-3"				45'-9"
H550	CAP	5	30	2'-4"	3'-8"			9'-8"
LS550	CAP	5	124	2'-4"	3'-8"			12'-9"
T550	COLUMN	5	123	3'-2"				10'-10"

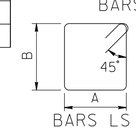


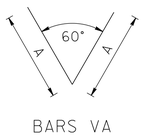












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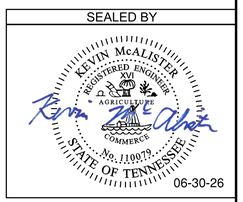


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1

BILL OF STEEL

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

U-101-100

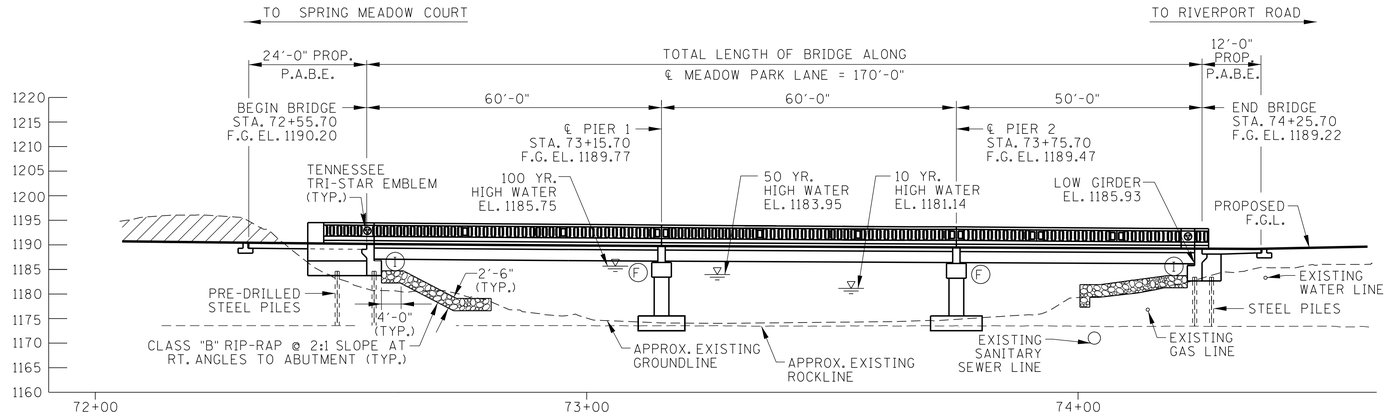
PIN NO.: 131034.00
DESIGN BY: R. HUANG DATE: 01/2026
DRAWN BY: R. HUANG DATE: 01/2026
SUPERVISED BY: K. MCALISTER DATE: 01/2026
CHECKED BY: I. GLOUDOUA DATE: 01/2026

6/24/2026 4:16:27 PM
F:\37\37743\3774302\04_CADD\TRNS\BRIDGE\DGN\BRIDGE01_FINAL\3774302_23 BILL OF STEEL.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-26

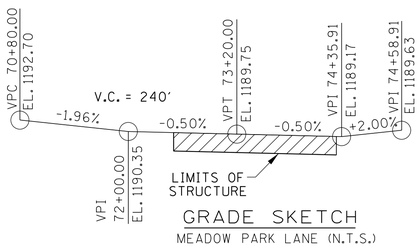
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION
SCALE: 1" = 15'

DATUM ELEVATION NOT PROVIDED IN SURVEY
100 YEAR SCOUR ELEVATION 1168.13
500 YEAR SCOUR ELEVATION 1160.22



GRADE SKETCH
MEADOW PARK LANE (N.T.S.)

CURVE 9
PI 72+05.25
N 817026.3441
E 2978583.6590
Δ 30°29'04" RT.
D 10°25'03"
R 550.00'
L 292.63'
T 149.87'
LC 289.19'
BC N23°38'52.2"E
SE 0.02 FT/FT
TRANS. LENGTH = 100'
DESIGN SPEED = 40 MPH

CURVE DATA
MEADOW PARK LANE (N.T.S.)

LIST OF DRAWINGS

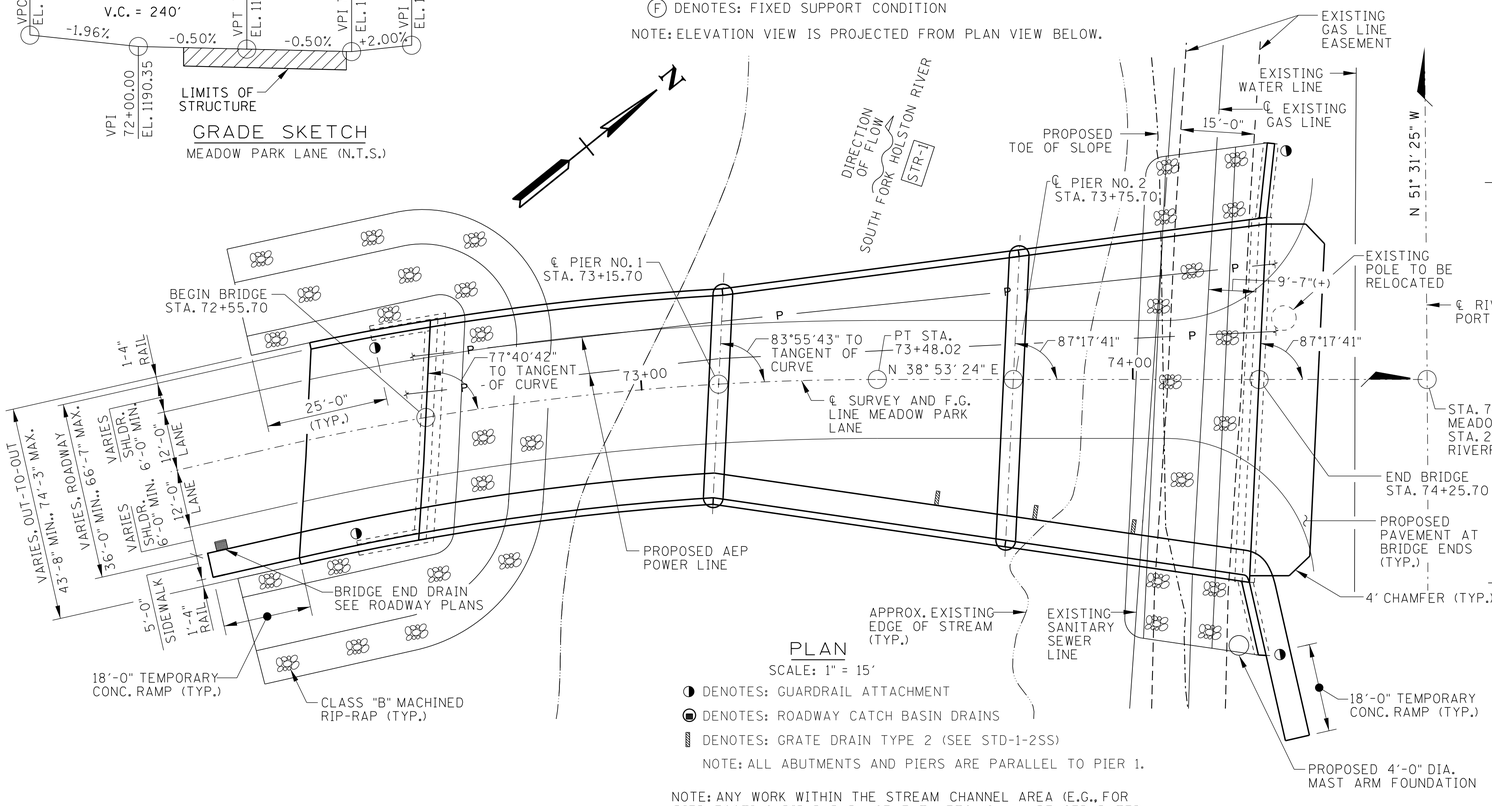
	DWG. NO.
LAYOUT OF BRIDGE	U-101-101
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-102
FOUNDATION DATA SHEET (1 OF 2)	U-101-103
FOUNDATION DATA SHEET (2 OF 2)	U-101-104
SUPERSTRUCTURE (1 OF 2)	U-101-105
SUPERSTRUCTURE (2 OF 2)	U-101-106
SUPERSTRUCTURE DETAILS (1 OF 5)	U-101-107
SUPERSTRUCTURE DETAILS (2 OF 5)	U-101-108
SUPERSTRUCTURE DETAILS (3 OF 5)	U-101-109
SUPERSTRUCTURE DETAILS (4 OF 5)	U-101-110
SUPERSTRUCTURE DETAILS (5 OF 5)	U-101-111
SCREED PLAN	U-101-112
STAKEOUT PLAN	U-101-113
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS) SPAN NO. 1	U-101-114
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS) SPAN NO. 2	U-101-115
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS) SPAN NO. 3	U-101-116
ABUTMENT NO. 1	U-101-117
ABUTMENT NO. 1 DETAILS	U-101-118
ABUTMENT NO. 1 STEEL PILE DETAILS	U-101-118A
ABUTMENT NO. 2 (1 OF 2)	U-101-119
ABUTMENT NO. 2 (2 OF 2)	U-101-120
ABUTMENT NO. 2 DETAILS (1 OF 2)	U-101-121
ABUTMENT NO. 2 DETAILS (2 OF 2)	U-101-122
PIER NO. 1	U-101-123
PIER NO. 1 DETAILS	U-101-124
PIER NO. 2	U-101-125
PIER NO. 2 DETAILS	U-101-126
FINAL FOUNDATION DATA	U-101-127
BILL OF STEEL (1 OF 2)	U-101-128
BILL OF STEEL (2 OF 2)	U-101-129

LIST OF STANDARD DRAWINGS

	DWG. NO.	REV. DATE
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND DECK DRAIN DETAILS	STD-1-2SS	05-31-24
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISC. ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-23
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	06-05-23
STANDARD CONCRETE CLASSIC RAIL	STD-11-2	04-15-20
STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL	STD-11-3	04-15-20
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-24

HYDRAULIC DATA

DRAINAGE AREA	1978.93 SQ. MI.
DESIGN DISCHARGE (100 YEAR)	8,850 CFS
WATER AREA PROVIDED BELOW EL. 1183.34	950.74 SQ. FT.
100 YEAR VELOCITY	7.28 FPS
100 YEAR BRIDGE BACKWATER	0.00 FT. AT EL. 1185.88 FT.
500 YEAR DISCHARGE	14,920 CFS
ROADWAY OVERTOPPING ELEVATION	1,189.22 FT.



PLAN
SCALE: 1" = 15'

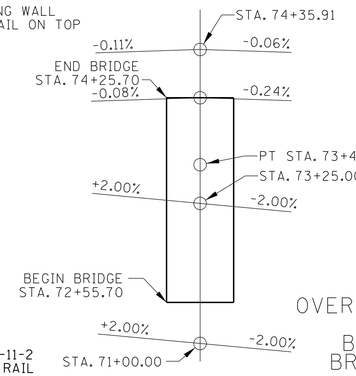
◑ DENOTES: GUARDRAIL ATTACHMENT
◉ DENOTES: ROADWAY CATCH BASIN DRAINS
▒ DENOTES: GRATE DRAIN TYPE 2 (SEE STD-1-2SS)
NOTE: ALL ABUTMENTS AND PIERS ARE PARALLEL TO PIER 1.

▨ DENOTES: APPROX. AREA OF EXISTING GROUND TO BE EXCAVATED AND INCLUDED AS ROADWAY ITEM (TYP.)
Ⓘ DENOTES: INTEGRAL SUPPORT CONDITION
Ⓕ DENOTES: FIXED SUPPORT CONDITION
NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT , ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

APPROX. TYPE 2 DRAIN STATIONS
73+60.00 RT
73+80.00 RT
74+00.00 RT

2046 ADT = 3,890
36'-0" ROADWAY WITH STD-11-2 AND STD-11-3 CONCRETE RAIL
DESIGN SPEED = 40 MPH



TRANSITION SKETCH
MEADOW PARK LANE (N.T.S.)

SEALED BY
KEVIN McALISTER REGISTERED ENGINEER 120 AGRICULTURE COMMERCE No. 110079 STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

LAYOUT OF BRIDGE

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-101

PIN NO.:	131034.00	
DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

MACHINE RIP RAP (CLASS "B") = 961 TONS

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ESTIMATED BRIDGE QUANTITIES (1)

FOOTNOTE	ITEM NO.	DESCRIPTION	UNITS	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	PIER NO. 1	PIER NO. 2	ABUT. NO. 2
(1)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	27	-	7	-	-	20
(1)	204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	69	-	-	17	52	-
(1)	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	30	-	-	12	18	-
(1)	204-05	ROCK DRILLING (BRIDGES)	L.F.	72	-	-	30	42	-
(12)	204-10.02	FOUNDATION PREPARATION (PIER NO.1, STA. 73+15.70)	L.S.	1	-	-	1	-	-
(12)	204-10.04	FOUNDATION PREPARATION (PIER NO.2, STA. 73+75.70)	L.S.	1	-	-	-	1	-
	204-14	CORE DRILLING FOR PILES(ROCK)	L.F.	110	-	110	-	-	-
(2)	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	75	-	21	-	-	54
	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	132,889	129,136	1,448	-	-	2,305
(13)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	373	-	40	114	160	59
	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	71,469	1,042	4,782	22,550	35,875	7,220
(4)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	224	-	124	-	-	100
(5)	604-03.09	CLASS DS CONCRETE (BRIDGE DECK)	C.Y.	291	291	-	-	-	-
(5)	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	867	524	46	106	128	63
(6)	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1,047	1,047	-			-
(7)	606-03.03	STEEL PILES (12 INCH)	L.F.	222	-	117	-	-	105
(8)	606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EA.	10	-	-	-	-	10
	610-10.45	DECK DRAINS (GRATE DRAINS TYPE 2)	EA.	3	3	-	-	-	-
(3)	615-02.10	PRESTRESSED CONCRETE BOX BEAM (27" X 48")	L.F.	986	986	-	-	-	-
(9)	620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	401	342	28	-	-	31
(10)	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	114	-	59	-	-	55
(11)	710-09.02	6" PIPE UNDERDRAIN	L.F.	33	-	17	-	-	16

FOOT NOTES

1. EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT PIERS.
2. GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.
3. NOTE: COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.
4. NOTE: SQUARE YARD FOR PAVEMENT AT BRIDGE ENDS SHALL BE MEASURED AS ROAD SURFACE AREA AND SHALL INCLUDED ALL CONCRETE, REINFORCING STEEL, SIDEWALKS SURFACE FINISH AS PER SP604 AND ANY OTHER INCIDENTALS NECESSARY FOR THE COMPLETE INSTALLATION. PIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL. (1)
5. FOR NOTES AND LIMITS OF TEXTURE COATING, SEE DETAIL ON THIS SHEET.
6. NOTE: COST INCLUDES ALL LABOR AND MATERIALS TO MECHANICALLY GROOVE BRIDGE DECK AND PAVEMENT AT BRIDGE ENDS, INCLUDING THE REMOVAL OF THE GROOVING RESIDUE.
7. NOTE: PILES SHALL BE HP 12 X 53 WITH A MINIMUM YIELD OF 50 KSI.
8. NOTE: THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.
9. ITEM INCLUDES LABOR AND MATERIALS TO CONSTRUCT BRIDGE RAIL PER STANDARD STD 11-2 AND STD 11-3.
10. NOTE: COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
11. NOTE: THE COST OF WATER STOPS, BITUMINOUS-FIBERBOARD, WEEP HOLE PIPING, ETC., AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
12. NOTE: SEE FOUNDATION PREPARATION NOTE THIS SHEET.
13. NOTE: THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 36 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE, ITEM NO. 604-03.01.

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-27

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	07-07-2026	KSM	REVISED ITEM NO. 204.10.02, ITEM NO. 204.10.04

GENERAL NOTES

08112025

SPECIFICATIONS & LOADING

(1) **CONSTRUCTION SPECIFICATIONS**: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION).

(2) **DESIGN SPECIFICATIONS:** 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.

(3) **LOADING**:
- A. HL-93 LIVE LOAD INCREASED BY 10% (MULTIPLIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
- B. SEISMIC DESIGN CATEGORY A WITH A_S= 0.174, S_{DS}= 0.345, S_{D1}= 0.146, (1000 YEAR RETURN PERIOD)
- C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

(4) **CONCRETE:** TO BE CLASS A (CAST-IN-PLACE) F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.

(5) **BRIDGE DECKS:** CLASS DS CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

(6) **BRIDGE DECK SURFACE FINISH**: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

(7) **BRIDGE DECK FORMS**: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE REMAIN-IN-PLACE STEEL. FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWINGS [STD-14-3], AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

(8) **REINFORCING STEEL**: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

FOUNDATION ELEMENTS

(9) **FOUNDATION PREPARATION**: SEE SECTION 204 OF THE STANDARD SPECIFICATIONS. IF IT IS DETERMINED THAT COFFERDAMS ARE REQUIRED, THEY SHALL BE IN ACCORDANCE WITH SECTION 204.09 OF THE STANDARD SPECIFICATIONS.

(10) **SPREAD FOOTINGS FOR PIERS**: FOOTINGS SHALL BE EMBEDDED 6 INCHES INTO SOUND ROCK. AS AN ALTERNATE, FOOTINGS MAY BE PLACED DIRECTLY ON CLEAN, SOUND ROCK WITH #8 BARS (1'-0" EMB., 1'-0" PROJ.) SPACED AT 2'-0" MAXIMUM GRID WITH A MAXIMUM EDGE DISTANCE TO THE OUTER BARS OF 1'-6" ALONG BOTH THE LENGTH AND WIDTH OF THE FOOTINGS. AFTER EXCAVATION TO ROCK FOR FOOTING HAS BEEN COMPLETED, HOLES 6' DEEP SHALL BE DRILLED AT POINTS DESIGNATED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES SHALL DETERMINE THE FINAL FOOTING ELEVATIONS. NO REINFORCING STEEL FOR BENT COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

(11) **END-BEARING STEEL PILES AT PIERS**: FOUNDATIONS FOR PIERS SHALL BE EXCAVATED TO THE BOTTOM OF FOOTING ELEVATIONS SHOWN. ROD SOUNDINGS SHALL THEN BE MADE AS DIRECTED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES WILL DECIDE IF PILES WILL BE USED OR THE FOOTINGS LOWERED TO ROCK. COST OF ROD SOUNDINGS TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO REINFORCING STEEL FOR PIER COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

(12) **END-BEARING STEEL PILES: TO** BE HP12X53 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 135 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

(13) **PILE TIPS:** PILES SHALL BE EQUIPPED WITH CAST STEEL POINTS. ALSO, SEE STANDARD DRAWING STD-5-1 FOR ADDITIONAL NOTES.

(14) **STREAM CHANNEL:** ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER/BENT FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

(15) **ABUTMENTS ON FILL**: THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

MISCELLANEOUS GENERAL NOTES

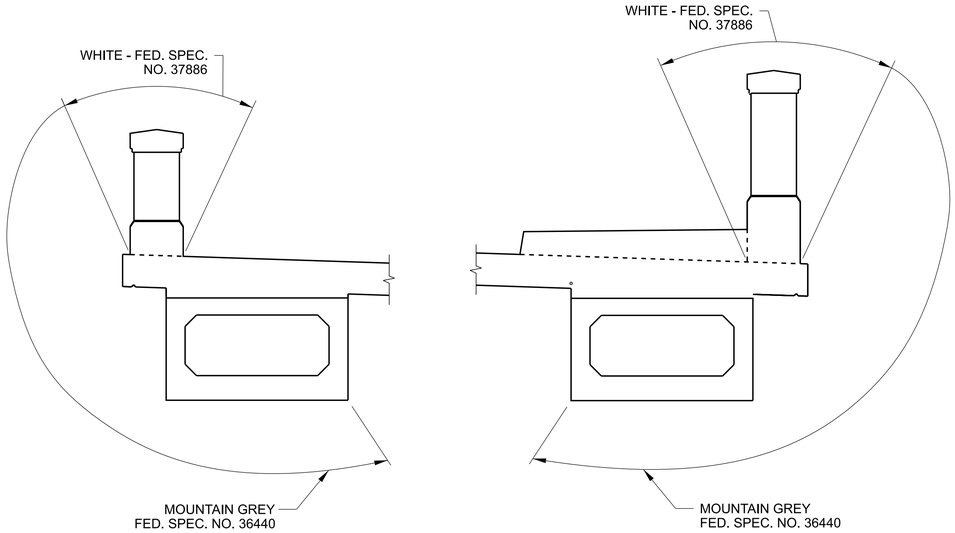
(16) **UTILITIES**: IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.

(17) **SHOP DRAWINGS:** SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

(18) **PARAPET SYSTEM**: BUILD PARAPETS ACCORDING TO STANDARD DRAWING (STD-11-2 AND STD-11-3). THE PARAPETS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.

(19) **RIP-RAP:** MACHINED RIP-RAP SHALL BE CLASS B IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.08.

(20) **FINISHING CONCRETE SURFACES:** CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.



APPLIED TEXTURE FINISH SKETCH

NOTE: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF [THE WINGWALLS, ABUTMENT BEAMS, PIERS, AND EXTERIOR PORTIONS OF THE ENDWALLS] SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, ASTM-STD-595A, COLOR NO. 36440).

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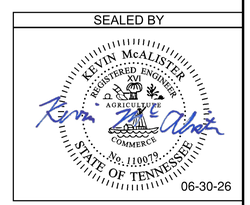

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

GENERAL NOTES AND ESTIMATED QUANTITIES

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-102

PIN NO.: 131034.00

DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

6/24/2026 4:33:16 PM
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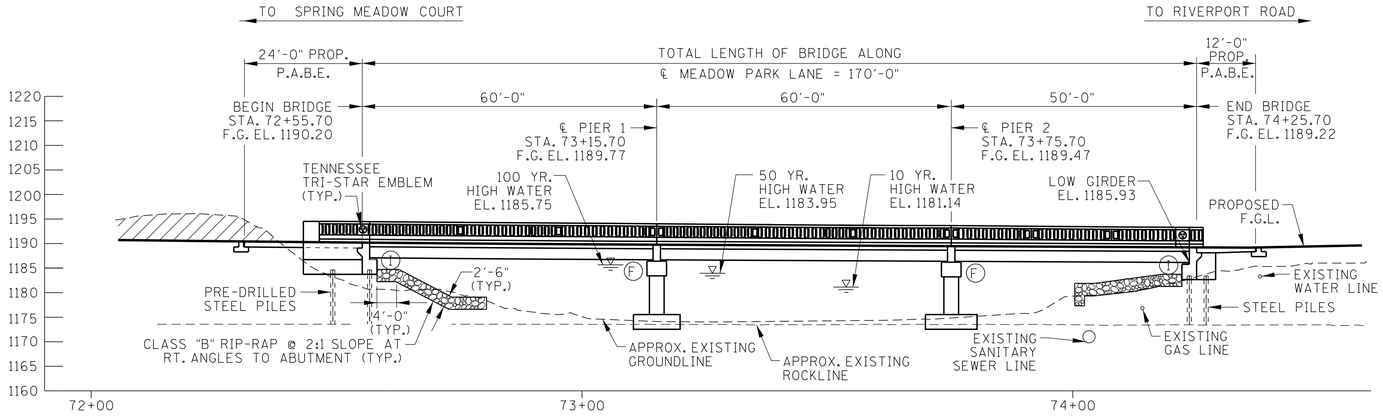
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-28

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION

SCALE: 1" = 15'

DATUM ELEVATION NOT PROVIDED IN SURVEY
100 YEAR SCOUR ELEVATION 1168.13
500 YEAR SCOUR ELEVATION 1160.22

▨ DENOTES: APPROX. AREA OF EXISTING GROUND TO BE EXCAVATED AND INCLUDED AS ROADWAY ITEM (TYP.)

Ⓘ DENOTES: INTEGRAL SUPPORT CONDITION

Ⓕ DENOTES: FIXED SUPPORT CONDITION

NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.

LEGEND

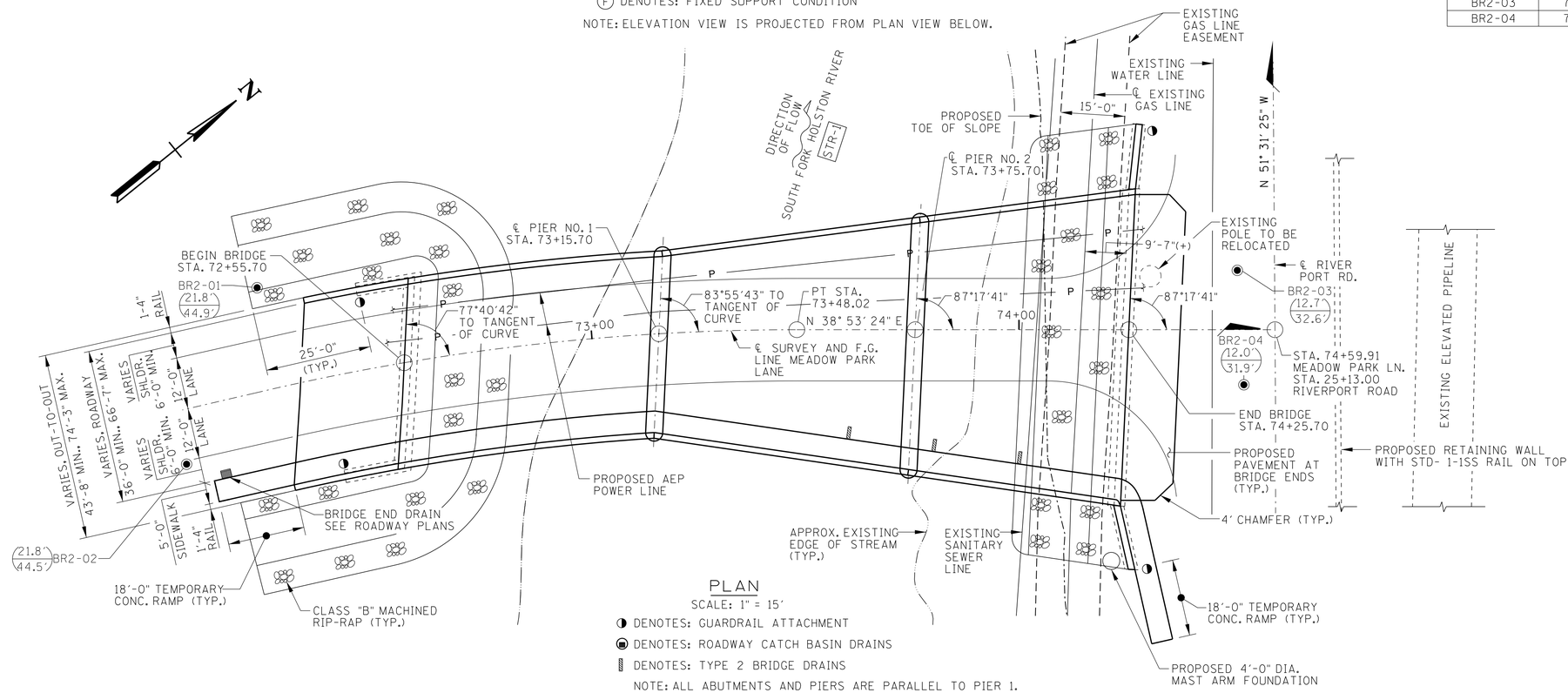
BRX-XX◉ BORING LOCATION AND NUMBER

(X.X' / X.X') BORING LOCATION, DEPTH TO REFUSAL (ABOVE LINE) BOTTOM OF HOLE (BELOW LINE)

TABLE OF BORING LOCATIONS

BORING NO.	STATION	OFFSET	GROUND ELEVATION	DEPTH TO ROCK	ROCK ELEVATION
BR2-01	72+26.20	24.33' LT	1195.90	21.8'	1174.10
BR2-02	72+01.74	11.73' RT	1195.14	21.8'	1173.34
BR2-03	74+50.21	14.24' LT	1185.54	12.7'	1172.84
BR2-04	74+51.74	12.53' RT	1186.10	12.0'	1174.10

NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.



PLAN

SCALE: 1" = 15'

◑ DENOTES: GUARDRAIL ATTACHMENT

▣ DENOTES: ROADWAY CATCH BASIN DRAINS

▨ DENOTES: TYPE 2 BRIDGE DRAINS

NOTE: ALL ABUTMENTS AND PIERS ARE PARALLEL TO PIER 1.

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT , ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

APPROX. TYPE 2 DRAIN STA.
73+60.00 RT
73+80.00 RT
74+00.00 RT

SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 110079 STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

FOUNDATION DATA SHEET (1 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-103

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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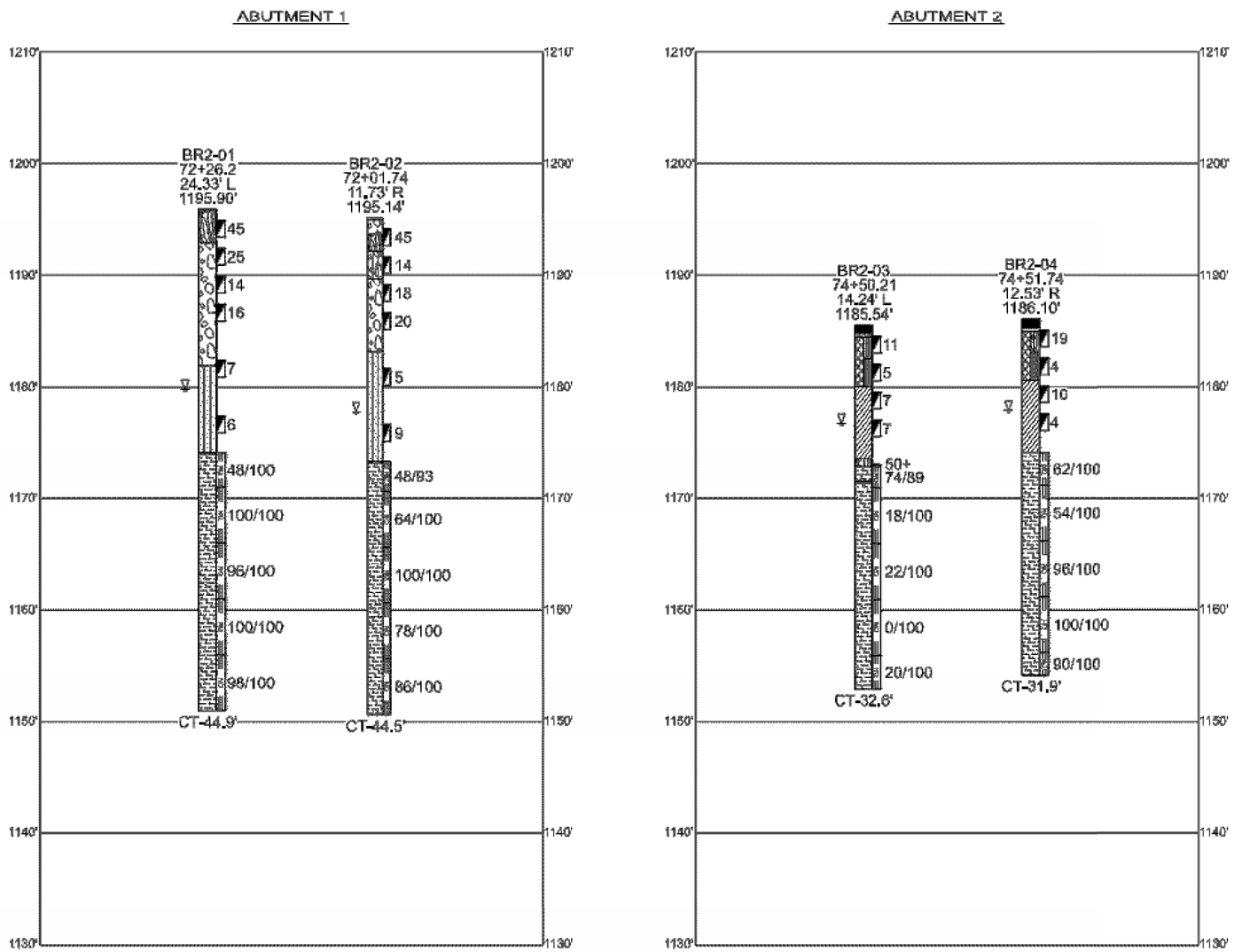
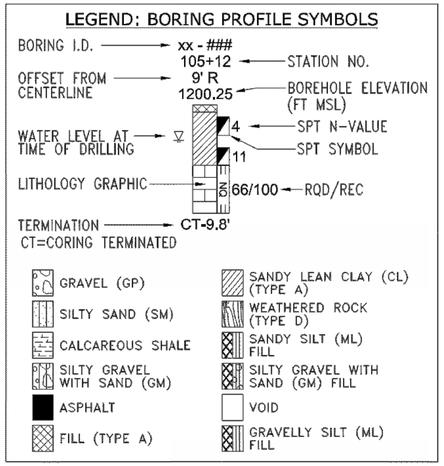
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-29

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION





NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY.

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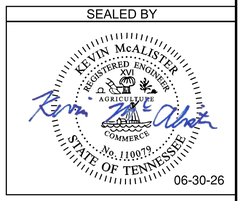

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

FOUNDATION DATA SHEET (2 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-104

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SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

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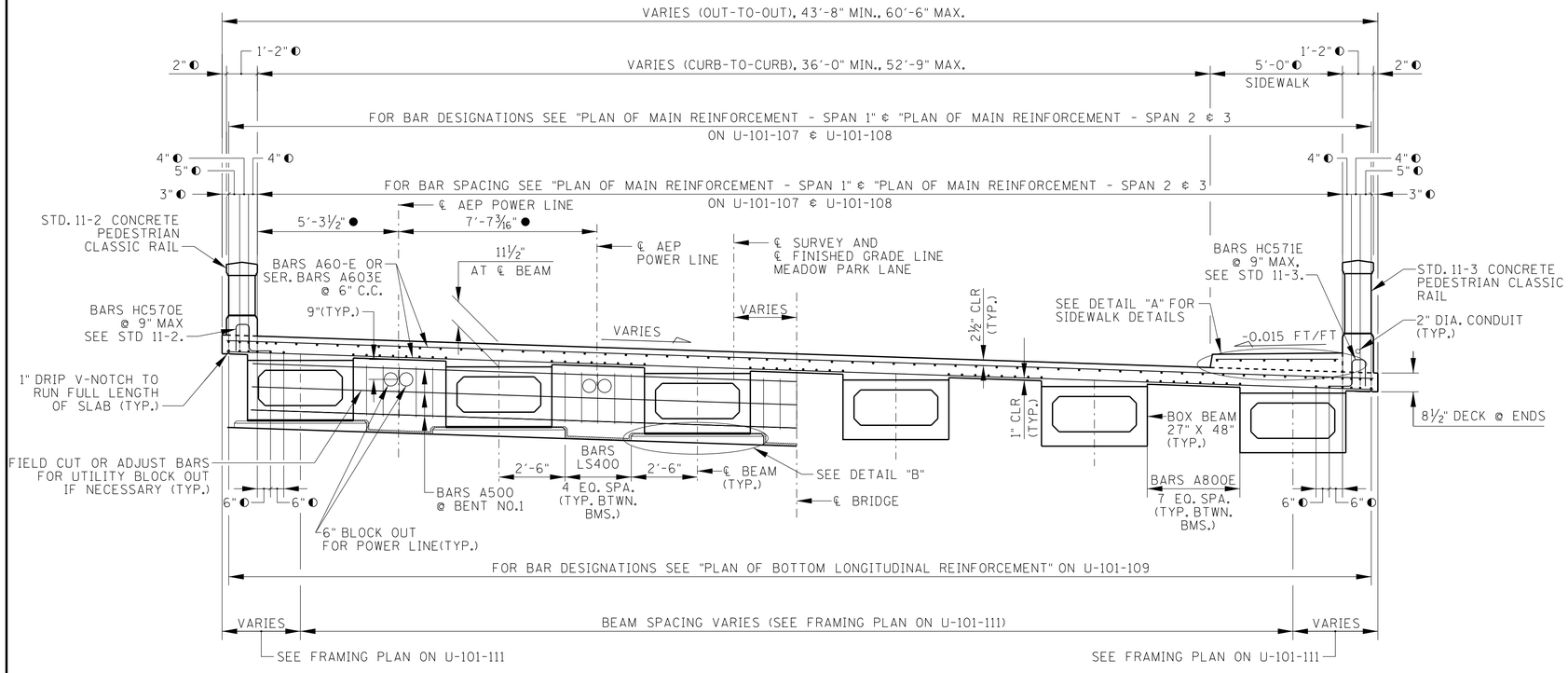
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-30

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



TYPICAL HALF-SECTION AT PIER NO.1

TYPICAL HALF-SECTION AT MID-SPAN - SPAN 1 & 2

NOTES:

1. NO PORTION OF THE PARAPET SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.
2. ANCHOR BOLT ASSEMBLIES AT PIERS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
3. WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. ALSO, SEE STD 11-2 AND STD 11-3.
4. THE SUPPORT DIAPHRAGMS AT THE PIERS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DIAPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE POURED AND CURED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.
6. OUTSIDE EDGE OF SLAB AND PARAPET TO CONFORM TO HORIZONTAL CURVE.
7. REFER TO ELECTRIC UTILITY RELOCATION SHEET U5-14 AND U5-15 FOR THE UTILITY HANGER DETAILS. UTILITY HANGER ANCHOR SYSTEM SHALL BE DESIGN FOR A DESIGN CAPACITY OF 800 LBS MIN.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE ALIGNMENT, THE PLACEMENT AND INSTALLATION OF THE UTILITY CONDUIT SYSTEM, INCLUDING THE UTILITY HANGERS. ALSO, THE CONTRACTOR SHALL SUBMIT UTILITY ATTACHMENT SYSTEM WITH CALCULATIONS FOR REVIEW AND APPROVAL BEFORE ANY INSTALLATIONS.

ESTIMATED QUANTITIES

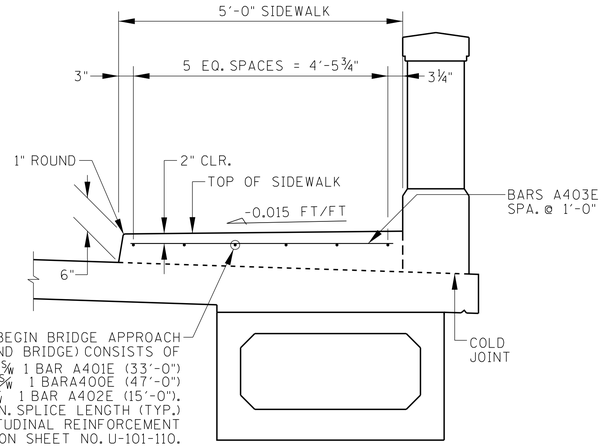
CLASS "DS" CONCRETE (C.Y.)	STEEL BAR REINFORCEMENT (LB.)	EPOXY COATED REINFORCING STEEL (LB.)
291	1,042	129,136

TYPICAL CROSS SECTION - SPAN 1 & SPAN 2

(LOOKING FORWARD ON SURVEY) (N.T.S.)

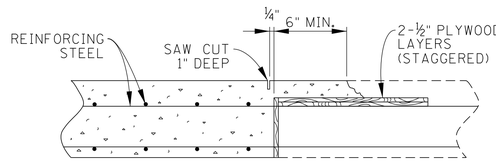
◐ DENOTES: BARS SPACING MEASURED PARALLEL TO EDGE OF BRIDGE

● DENOTES: DIMENSION MEASURED ALONG ℄ PIER NO.1



DETAIL "A"

(N.T.S.)

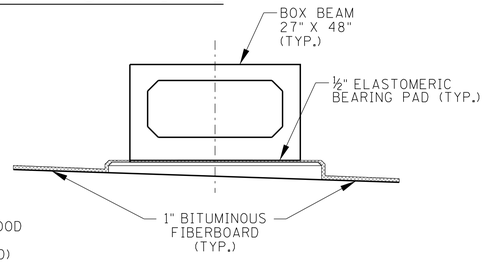


SLAB CONSTRUCTION JOINT DETAIL

(N.T.S.)

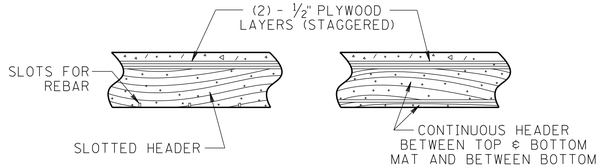
DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING:

1) NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN INTERIOR SUPPORT.
2) THE SLAB IN THE MIDDLE SECTION OF BOTH ADJACENT SPANS MUST BE POURED TO WITHIN AT LEAST 15 FEET OF THE SUPPORTS EITHER PRIOR TO OR CONCURRENTLY WITH THE SLAB OVER AN INTERIOR SUPPORT.
3.) ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ON THIS SHEET.



DETAIL "B"

(N.T.S.)



ALTERNATE "A" ALTERNATE "B"

ALTERNATE HEADER DETAILS

(N.T.S.)

SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 119079 STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE (1 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-105

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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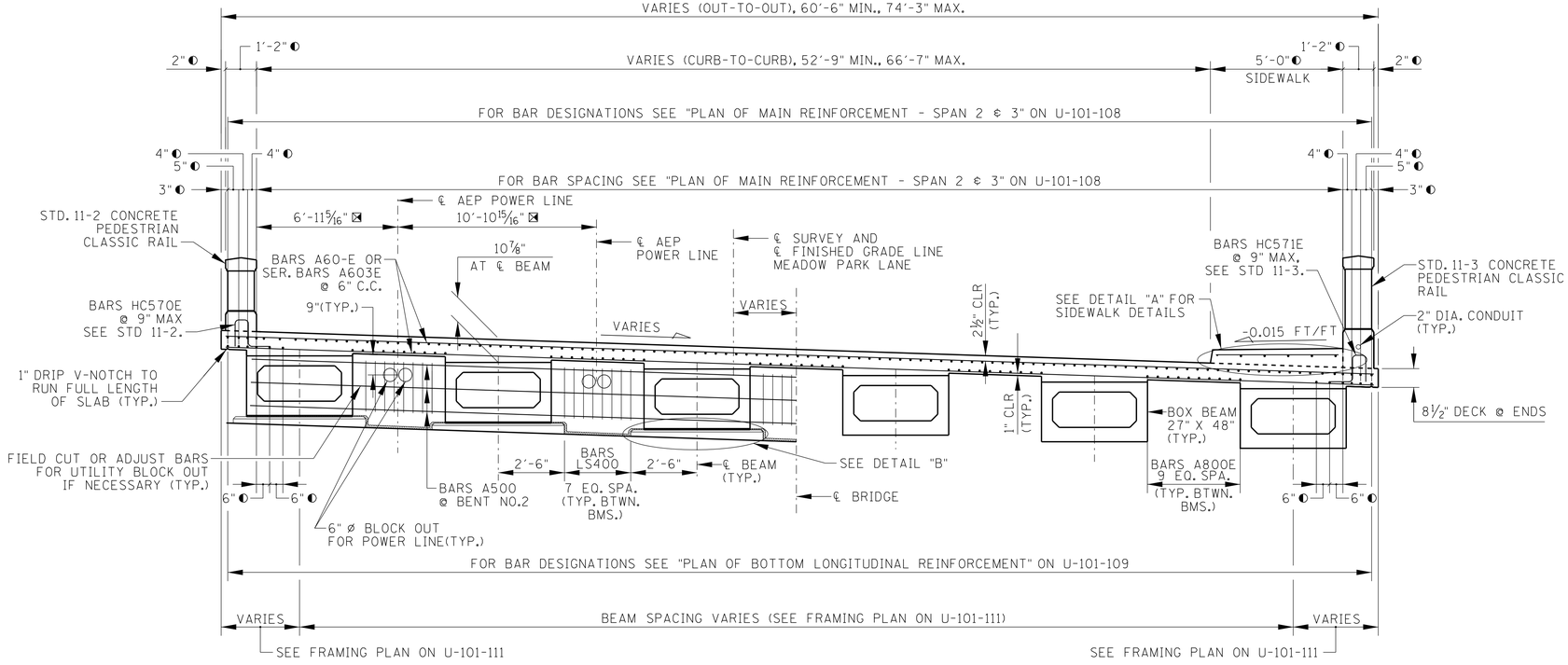


TYPICAL HALF-SECTION AT PIER NO.2

TYPICAL HALF-SECTION AT MID-SPAN - SPAN 3

TYPICAL CROSS SECTION - SPAN 3

(LOOKING FORWARD ON SURVEY) (N.T.S.)

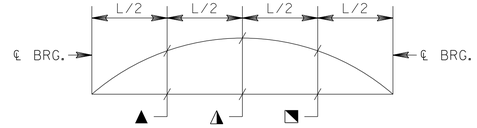
◐ DENOTES: BARS SPACING MEASURED PARALLEL TO EDGE OF BRIDGE

⊠ DENOTES: DIMENSION MEASURED ALONG ℄ PIER NO.2

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-31

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



DEAD LOAD CORRECTION CURVE

	▲	◭	◹
BEAM 1	1/2"	1 1/16"	1/2"
BEAM 2	1/2"	1 1/16"	1/2"
BEAM 3	1/2"	1 1/16"	1/2"
BEAM 4	1/2"	1 1/16"	1/2"
BEAM 5	1/2"	1 1/16"	1/2"
BEAM 6	7/16"	5/8"	7/16"
BEAM 7	1/2"	3/4"	1/2"
BEAM 8	9/16"	13/16"	9/16"
BEAM 9	9/16"	13/16"	9/16"
BEAM 10	9/16"	13/16"	9/16"
BEAM 11	9/16"	13/16"	9/16"
BEAM 12	1/2"	1 1/16"	1/2"
BEAM 13	1/4"	3/8"	1/4"
BEAM 14	5/16"	1/2"	5/16"
BEAM 15	5/16"	1/2"	5/16"
BEAM 16	5/16"	1/2"	5/16"
BEAM 17	5/16"	1/2"	5/16"
BEAM 18	1/4"	3/8"	1/4"

DEAD LOAD CORRECTION CURVE: THIS CURVE IS FOR DEAD LOAD OF SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER THE SLAB IS IN PLACE.

NOTE: PRESRESSED DECK PANELS ARE NOT ALLOWED.

NOTES:

1. NO PORTION OF THE PARAPET SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.
2. ANCHOR BOLT ASSEMBLIES AT PIERS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
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4. THE SUPPORT DIAPHRAGMS AT THE PIERS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DIAPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.
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SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 119079 STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE (2 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-106

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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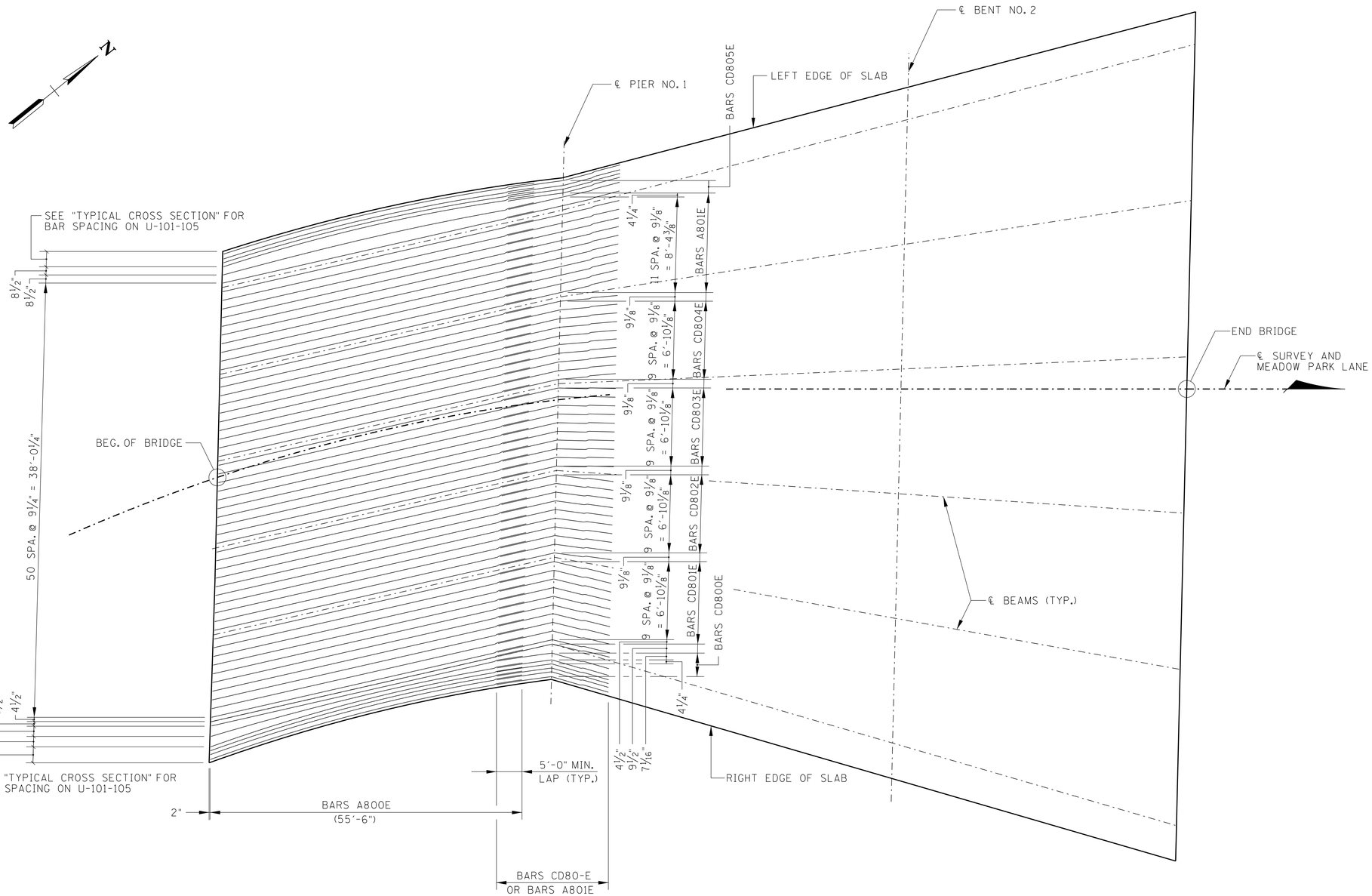
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-32

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PLAN OF MAIN REINFORCEMENT - SPAN 1

(N.T.S.)

NOTE: BAR SPACING MEASURED PERPENDICULAR TO ℄ PIER NO. 1

SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 110079 STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE DETAILS (1 OF 5)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-107

PIN NO.: 131034.00

DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

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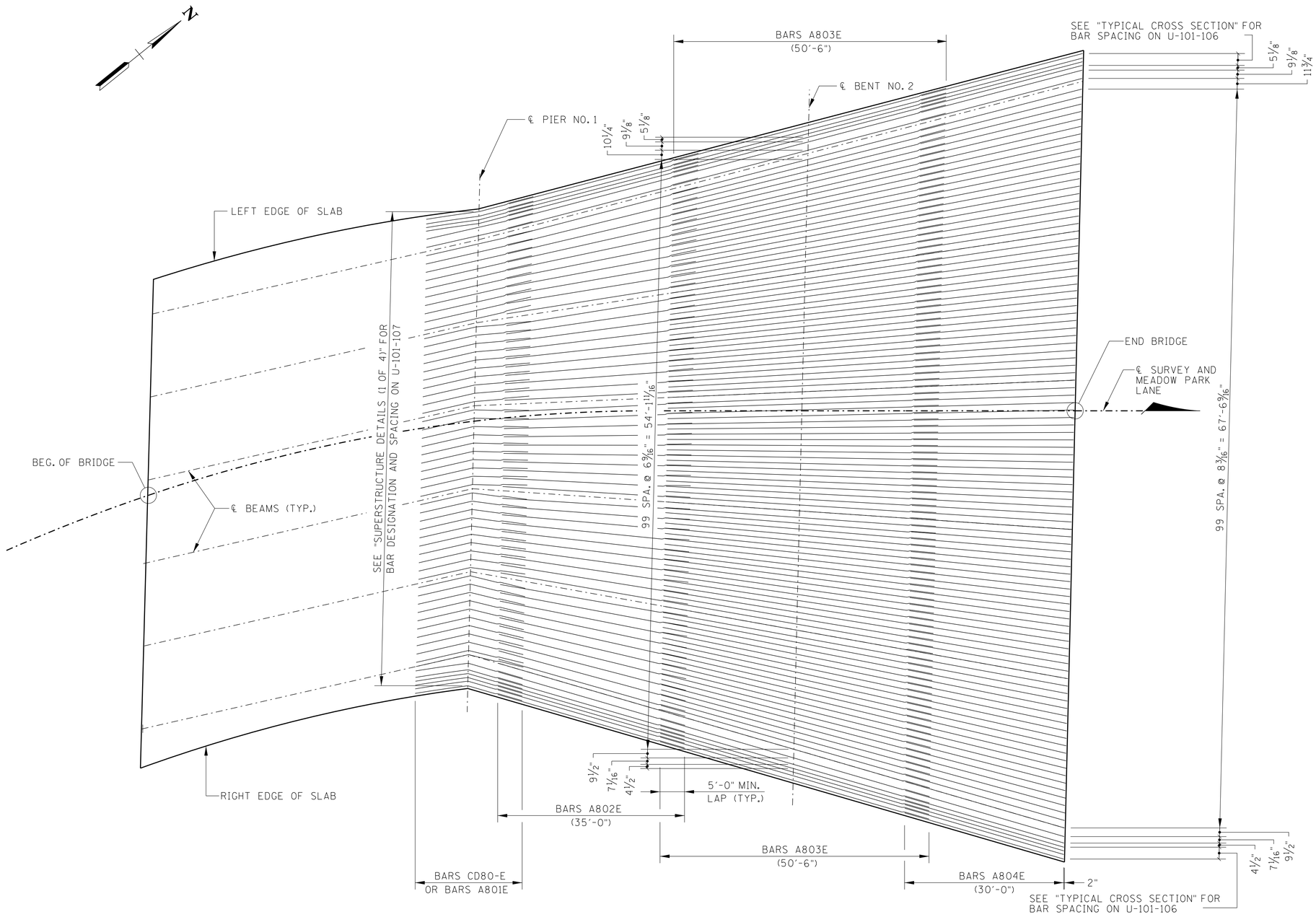
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-33

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PLAN OF MAIN REINFORCEMENT - SPAN 2 & 3
(N.T.S.)
NOTE: BAR SPACING MEASURED PERPENDICULAR TO ℄ PIER NO. 2

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

SUPERSTRUCTURE DETAILS (2 OF 5)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-108

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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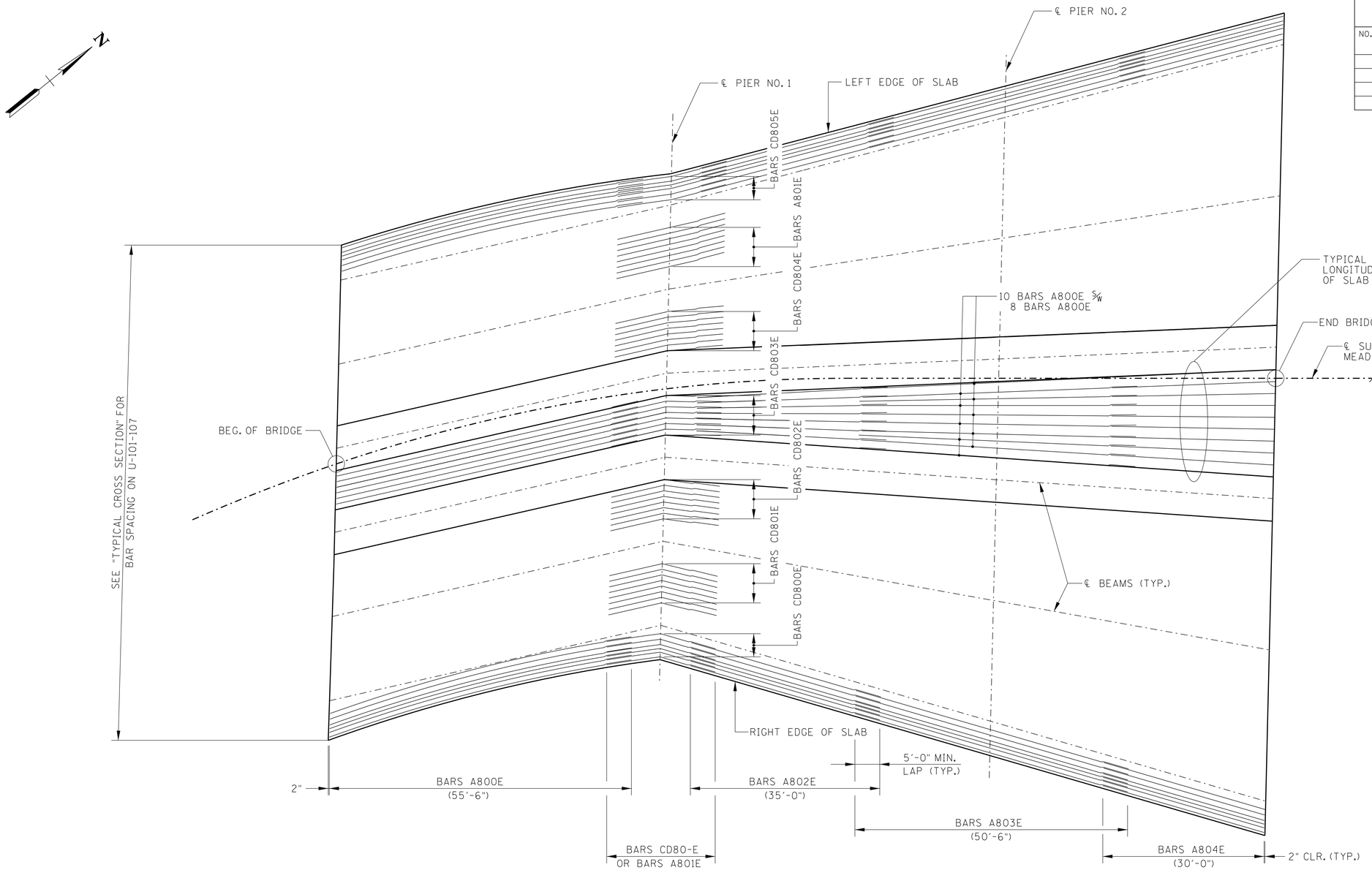
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-34

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



SLAB PLAN
(N.T.S.)

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE DETAILS (3 OF 5)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-109

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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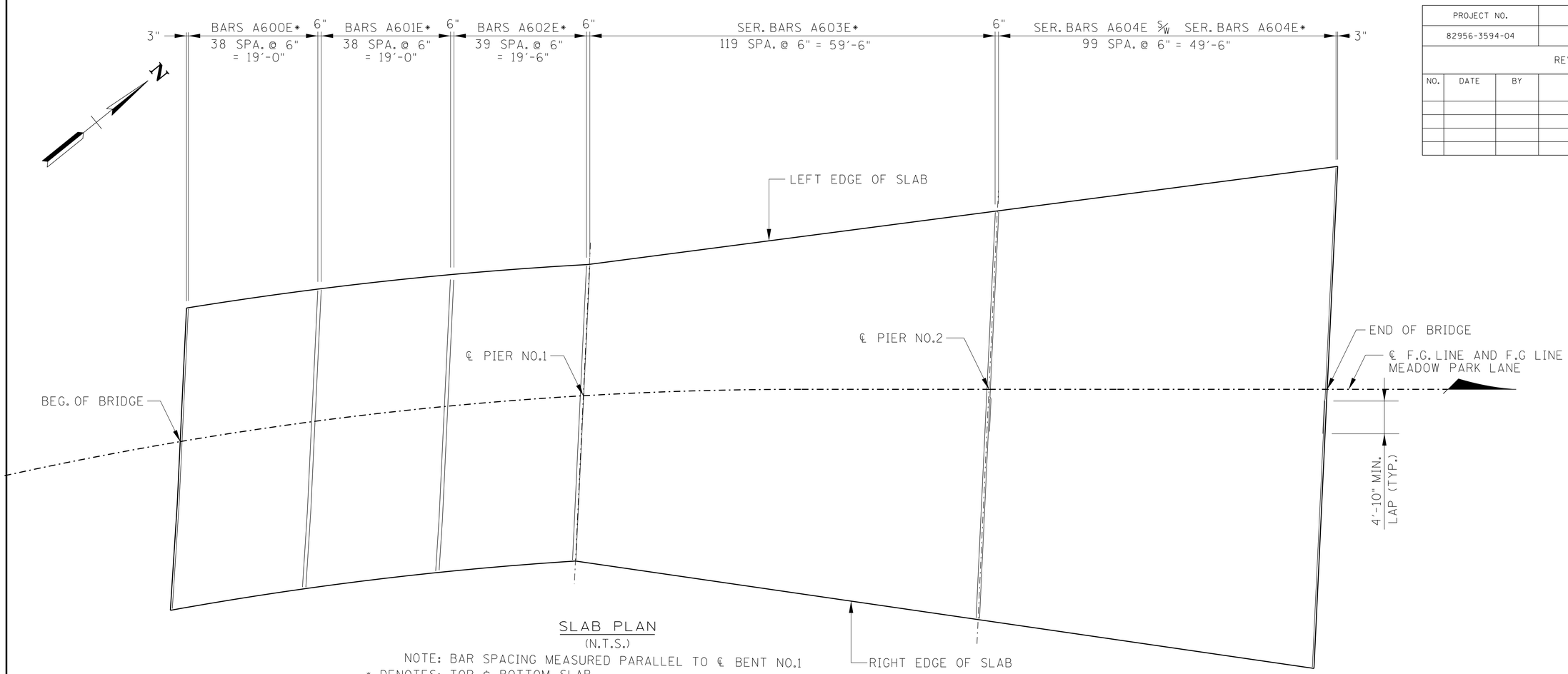
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-35

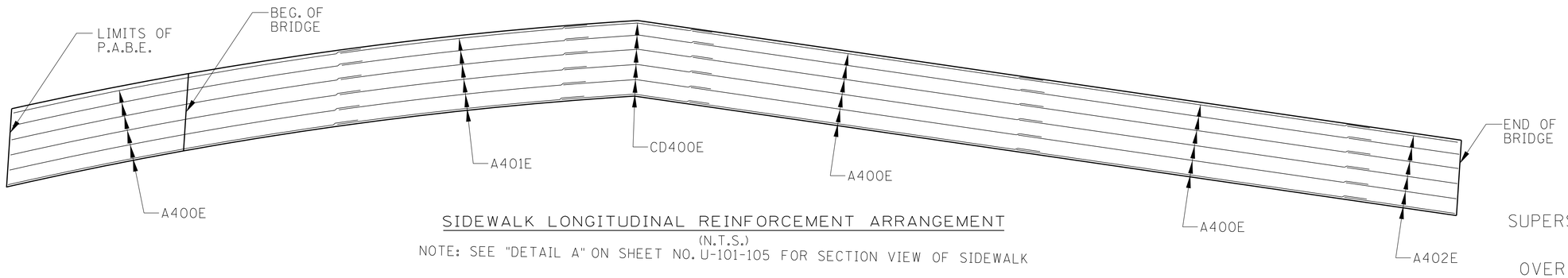
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



SLAB PLAN
(N.T.S.)

NOTE: BAR SPACING MEASURED PARALLEL TO ℄ BENT NO.1
* DENOTES: TOP & BOTTOM SLAB.



SIDEWALK LONGITUDINAL REINFORCEMENT ARRANGEMENT
(N.T.S.)

NOTE: SEE "DETAIL A" ON SHEET NO. U-101-105 FOR SECTION VIEW OF SIDEWALK

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 119079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE DETAILS (4 OF 5)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-110

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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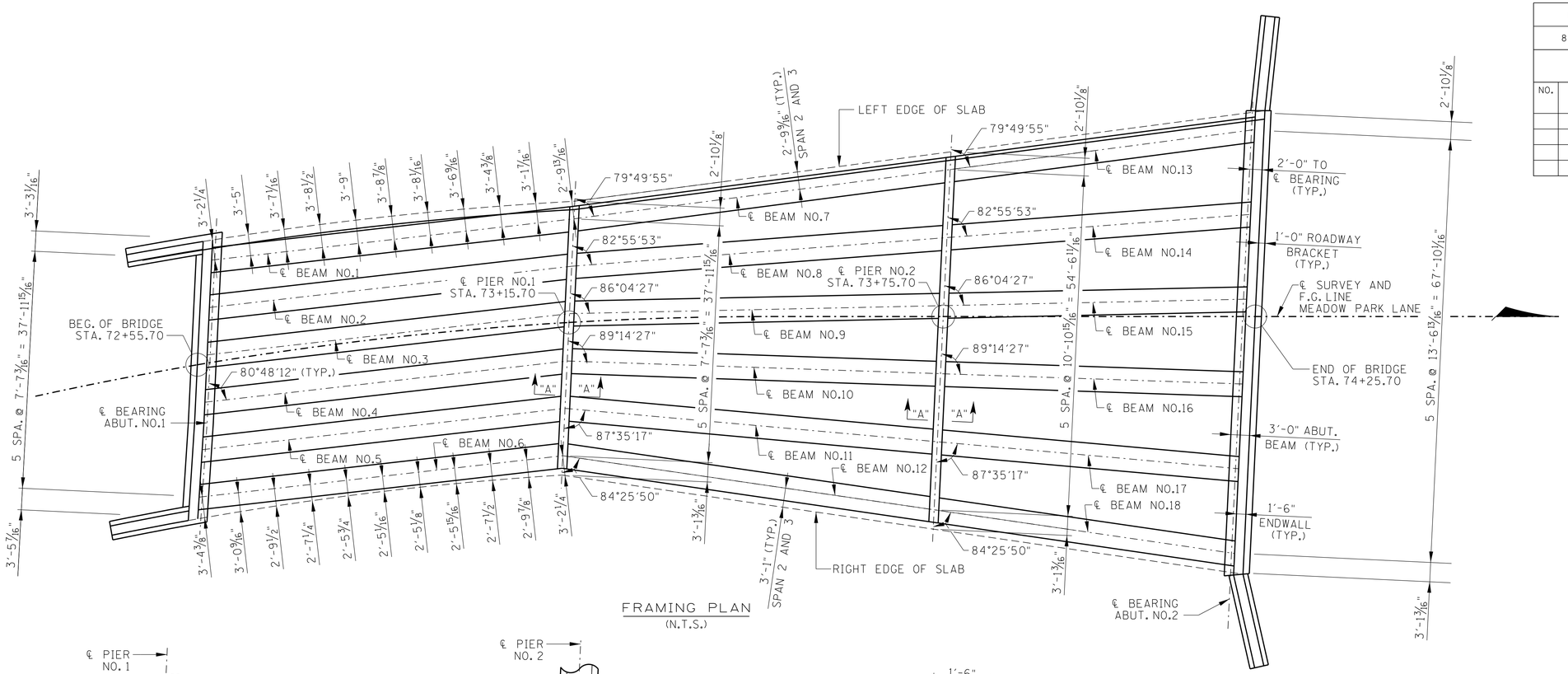
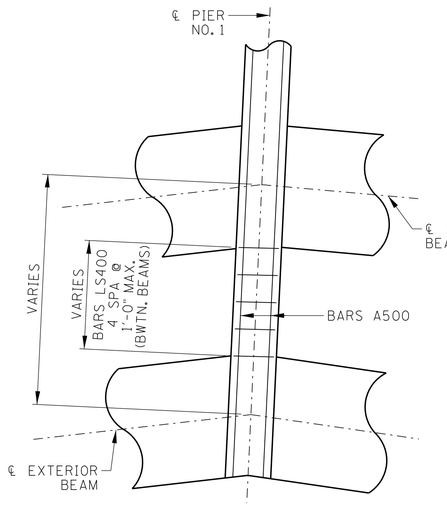
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-36

REVISIONS

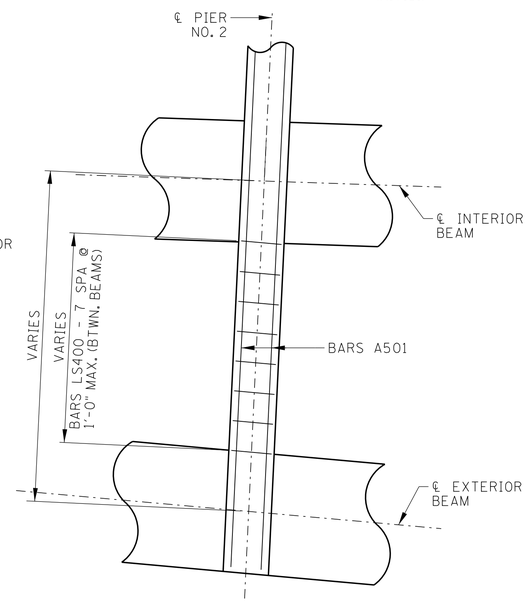
NO.	DATE	BY	BRIEF DESCRIPTION



FRAMING PLAN
(N.T.S.)

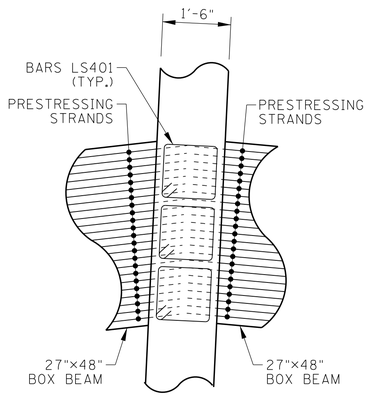


DIAPHRAGM - PIER NO. 1

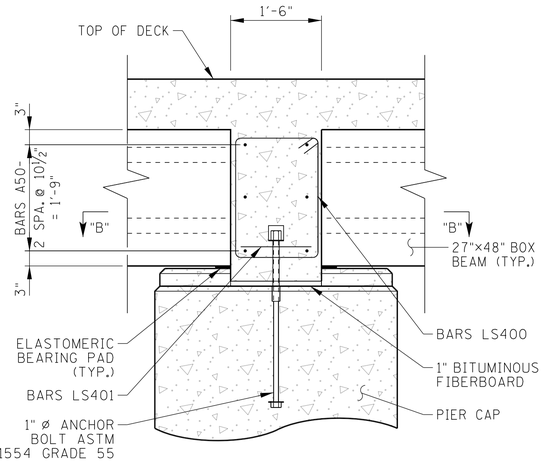


DIAPHRAGM - PIER NO. 2

PLAN OF DIAPHGRAGMS
(N.T.S.)



SECTION "B"-"B"
(N.T.S.)



SECTION "A"-"A"
(N.T.S.)

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SUPERSTRUCTURE DETAILS (5 OF 5)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-111

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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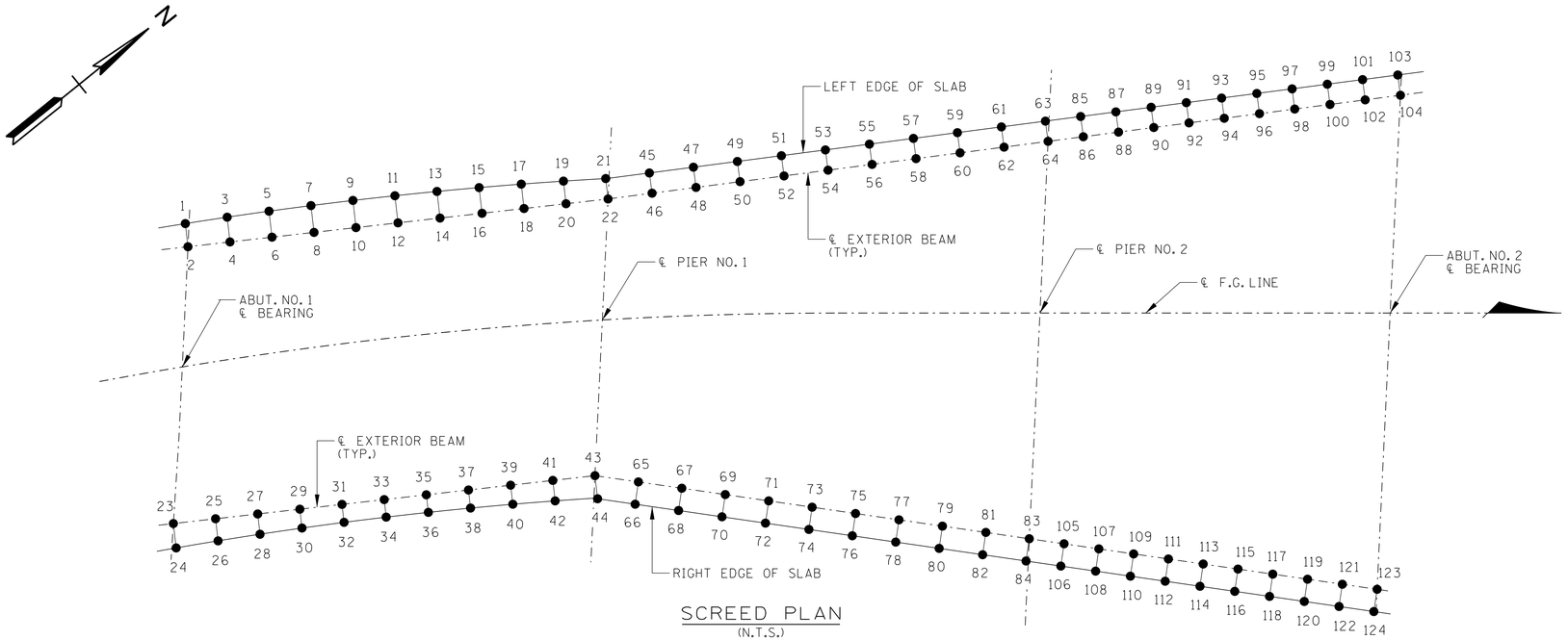
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-37

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



SCREED PLAN
(N.T.S.)

SCREED TABLE

PT.	STATION	ELEVATION	PT.	STATION	ELEVATION	PT.	STATION	ELEVATION	PT.	STATION	ELEVATION
1	72+61.25	1190.53	32	72+76.99	1189.53	63	73+76.46	1189.74	94	74+00.97	1189.49
2	72+61.11	1190.47	33	72+83.09	1189.54	64	73+76.82	1189.70	95	74+05.43	1189.46
3	72+66.85	1190.49	34	72+83.08	1189.49	65	73+19.49	1189.30	96	74+05.80	1189.45
4	72+66.74	1190.42	35	72+89.15	1189.49	66	73+18.85	1189.24	97	74+10.26	1189.41
5	72+72.45	1190.44	36	72+89.16	1189.44	67	73+25.65	1189.25	98	74+10.63	1189.40
6	72+72.37	1190.37	37	72+95.20	1189.45	68	73+25.05	1189.19	99	74+15.09	1189.36
7	72+78.05	1190.40	38	72+95.25	1189.40	69	73+31.84	1189.23	100	74+15.46	1189.35
8	72+78.00	1190.32	39	73+01.25	1189.42	70	73+31.28	1189.17	101	74+19.92	1189.31
9	72+83.65	1190.36	40	73+01.33	1189.37	71	73+38.06	1189.20	102	74+20.29	1189.30
10	72+83.63	1190.28	41	73+07.30	1189.39	72	73+37.53	1189.15	103	74+24.75	1189.26
11	72+89.24	1190.32	42	73+07.42	1189.33	73	73+44.29	1189.19	104	74+25.12	1189.25
12	72+89.27	1190.24	43	73+13.35	1189.36	74	73+43.80	1189.14	105	73+79.01	1189.12
13	72+94.84	1190.28	44	73+13.52	1189.29	75	73+50.43	1189.17	106	73+78.57	1189.09
14	72+94.90	1190.21	45	73+23.06	1190.14	76	73+49.99	1189.12	107	73+83.79	1189.12
15	73+00.44	1190.24	46	73+23.29	1190.07	77	73+56.39	1189.16	108	73+83.33	1189.09
16	73+00.53	1190.17	47	73+28.90	1190.10	78	73+55.94	1189.11	109	73+88.55	1189.11
17	73+06.04	1190.21	48	73+29.16	1190.04	79	73+62.34	1189.14	110	73+88.10	1189.09
18	73+06.16	1190.14	49	73+34.74	1190.06	80	73+61.89	1189.10	111	73+93.31	1189.11
19	73+11.64	1190.18	50	73+35.02	1190.00	81	73+68.29	1189.13	112	73+92.86	1189.09
20	73+11.79	1190.12	51	73+40.56	1190.02	82	73+67.85	1189.10	113	73+98.08	1189.11
21	73+17.25	1190.15	52	73+40.87	1189.97	83	73+74.24	1189.13	114	73+97.64	1189.09
22	73+17.41	1190.09	53	73+46.36	1189.97	84	73+73.80	1189.09	115	74+02.85	1189.11
23	72+52.84	1189.80	54	73+46.70	1189.93	85	73+81.29	1189.69	116	74+02.40	1189.09
24	72+52.63	1189.74	55	73+52.33	1189.93	86	73+81.65	1189.66	117	74+07.61	1189.11
25	72+58.88	1189.74	56	73+52.70	1189.89	87	73+86.12	1189.65	118	74+07.17	1189.10
26	72+58.73	1189.68	57	73+58.36	1189.88	88	73+86.48	1189.62	119	74+12.38	1189.12
27	72+64.93	1189.68	58	73+58.73	1189.84	89	73+90.94	1189.61	120	74+11.94	1189.10
28	72+64.82	1189.63	59	73+64.39	1189.84	90	73+91.31	1189.58	121	74+17.15	1189.12
29	72+70.98	1189.63	60	73+64.76	1189.80	91	73+95.77	1189.56	122	74+16.70	1189.11
30	72+70.91	1189.58	61	73+70.42	1189.79	92	73+96.14	1189.54	123	74+21.91	1189.12
31	72+77.03	1189.58	62	73+70.79	1189.75	93	74+00.60	1189.51	124	74+21.47	1189.11

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

SCREED PLAN

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-112

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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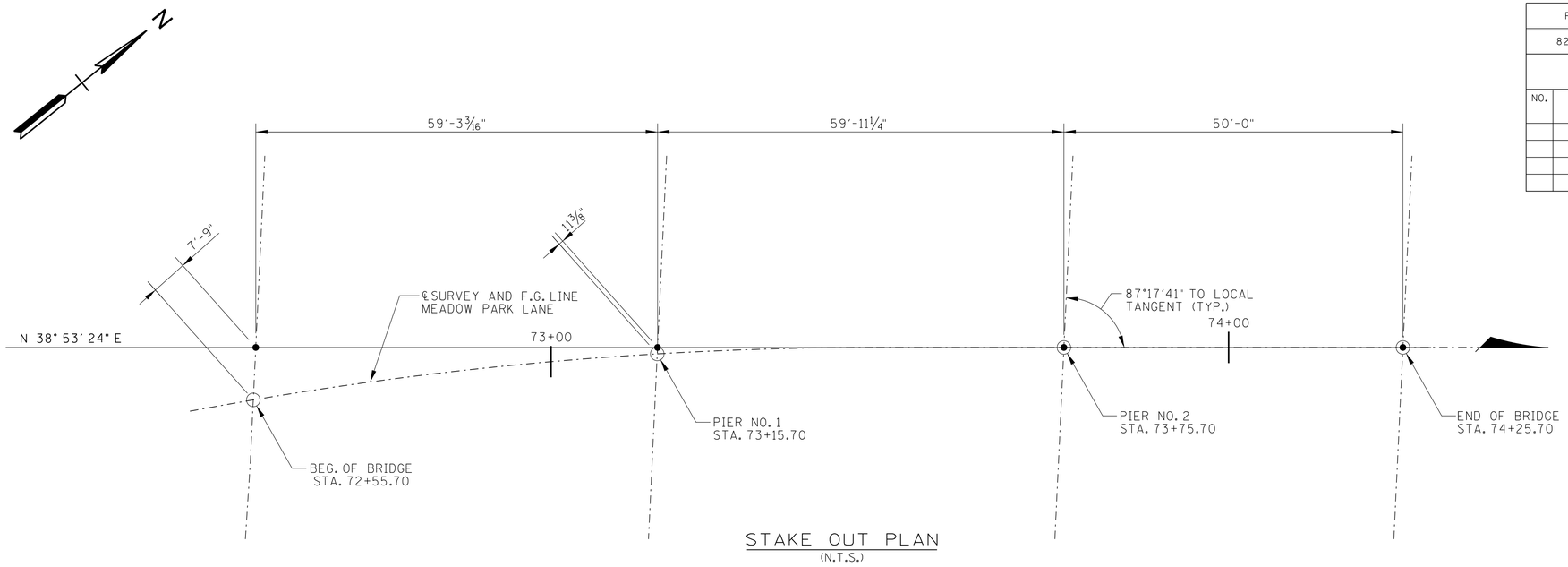
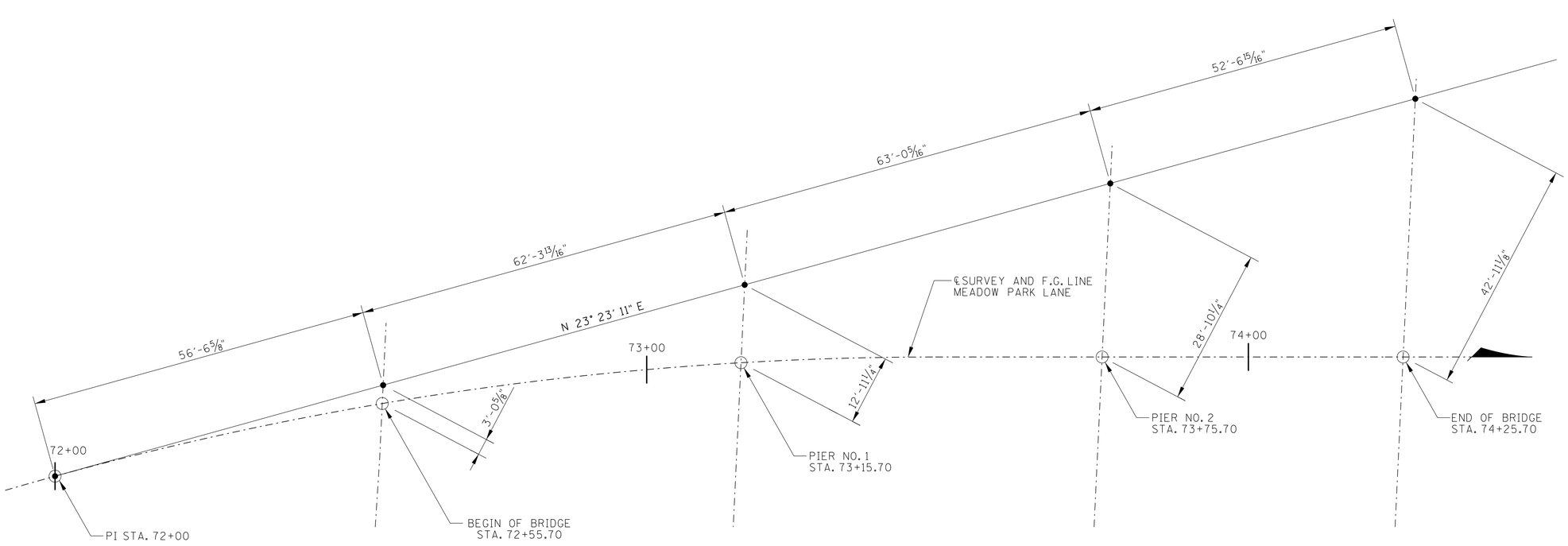
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-38

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



STAKE OUT PLAN
(N.T.S.)



ALTERNATE STAKE OUT PLAN
(N.T.S.)

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

STAKEOUT PLAN

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-113

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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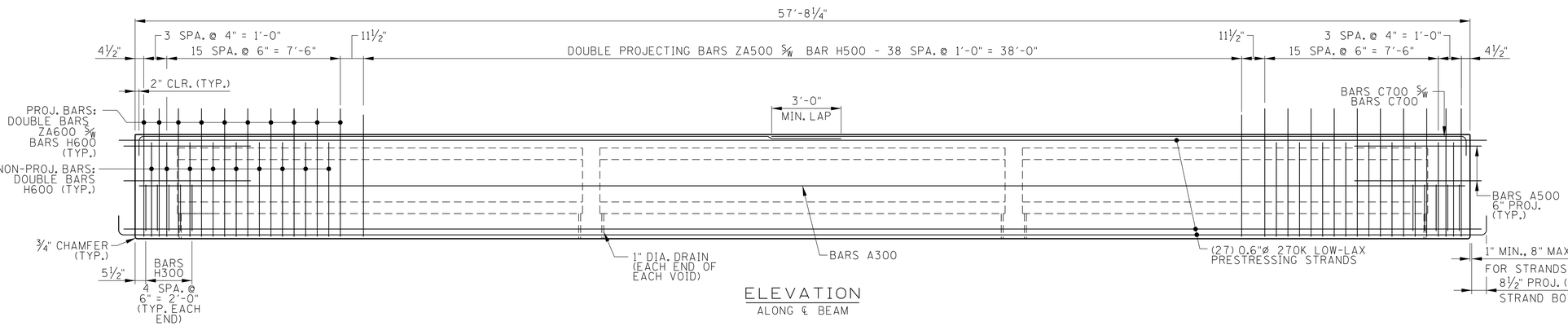
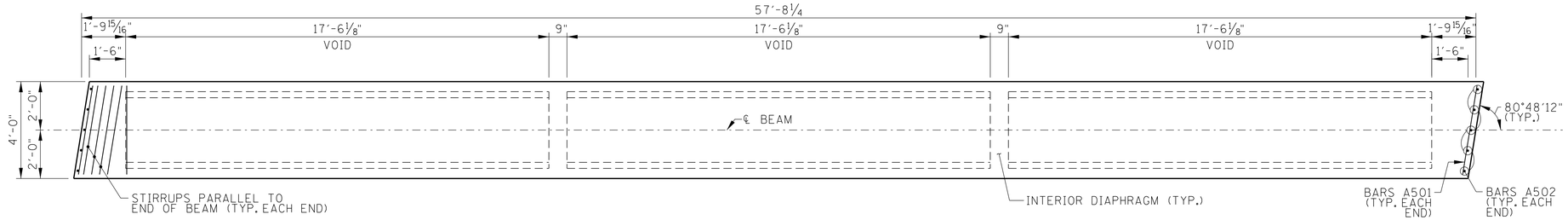
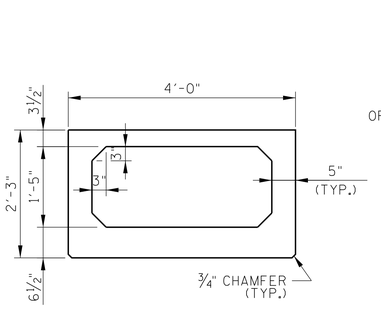


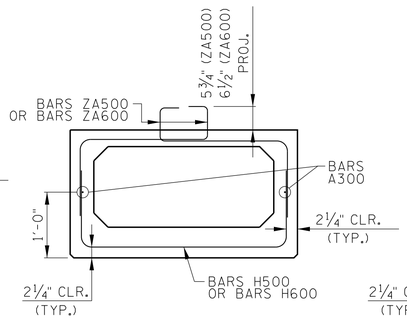
ELEVATION
ALONG ℄ BEAM



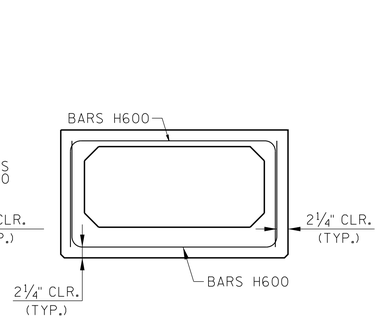
PLAN



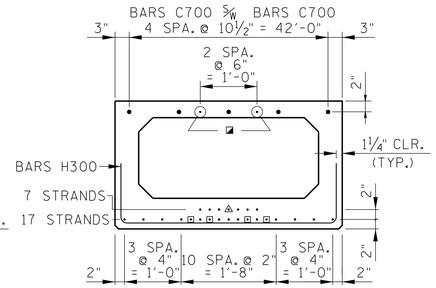
SECTION
(SHOWING PROPERTIES)



SECTION SHOWING REINFORCEMENT
(SHOWING PROJECTING STIRRUPS)



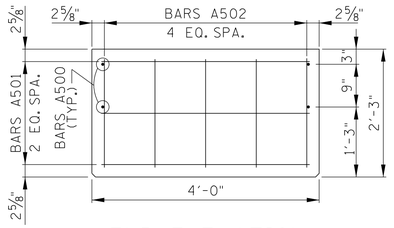
SECTION SHOWING REINFORCEMENT
(SHOWING NON-PROJECTING STIRRUPS)



(26) 0.6" ø 270K LOW-LAX PRESTRESSING STRANDS

SECTION
(SHOWING PRESTRESSING STRANDS)

- ⊡ DEBOND 4′-0" EACH END
- ◬ DEBOND 8′-0" EACH END
- ◪ DENOTES: (2) STRAIGHT 0.6"ø PRESTRESSED STRAND PULLED TO AN INITIAL FORCE OF 5 KIPS



END ELEVATION
(TYPICAL EACH END)

BILL OF STEEL PER BEAM

BAR	SIZE	NO. REQ'D	LENGTH
A300	3	2	57′-4"
A500	5	8	5′-6"
A501	5	6	3′-8"
A502	5	10	1′-11"
C700	7	10	31′-0"
H300	3	10	5′-9½"
H500	5	39	7′-5½"
ZA500	5	78	4′-4¼"
H600	6	56	7′-5½"
ZA600	6	40	4′-5"

ESTIMATED QUANTITIES PER BEAM

NO. REQ'D	CLASS "P" CONCRETE C.Y.	STEEL BAR REINFORCING LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
6	11	2338	1163

PRESTRESSED STRAND DATA:

LOW-LAX, ASTM A416 GRADE 270 KSI, UNCOATED
7-WIRE STRANDS DIAMETER = 0.6 INCH
AREA = 0.217 SQ. IN
INITIAL JACKING FORCE = 43,943 LBS.

DATA PER BEAM:

LIVE LOAD DISTRIBUTION FACTOR IN LANES:
MOMENT 0.918
SHEAR 1.198

COMPOSITE DEAD LOADS:
DC= 196 LB/FT
DW= 244 LB/FT

COMPOSITE DESIGN SLAB STRENGTH: f′c = 4,000 PSI.

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

BEAM NOTES:

SEE STD-14-3 FOR BOX BEAM STANDARD DETAILS, NOTES AND REINFORCING.

THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 9,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 8,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

TOP FLANGE TO BE CLEAN, FREE OF LAITANCE, AND INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF ¼".

ALL BOX BEAMS ARE 27" H X 48" W.

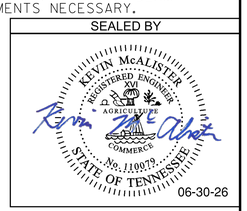
CONTRACTOR SHALL FIELD VERIFY BEAM LENGTH PRIOR TO FABRICATING BEAMS. SHOULD FIELD MEASUREMENTS VARY GREATER THAN 2", THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IN ORDER TO VERIFY THE BEAM DESIGN AND MAKE ANY ADJUSTMENTS NECESSARY.

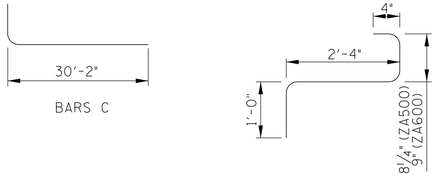
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-39

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

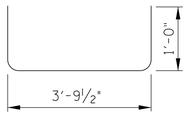
SEALED BY





BARS C

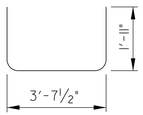
BARS ZA500 OR BARS ZA600



BARS H300

LENGTH

BARS A



BARS H500 OR BARS H600

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PRESTRESSED BEAM DETAILS
27"X48" BOX BEAM - SPAN 1

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-114

5/22/2026 9:07:44 PM
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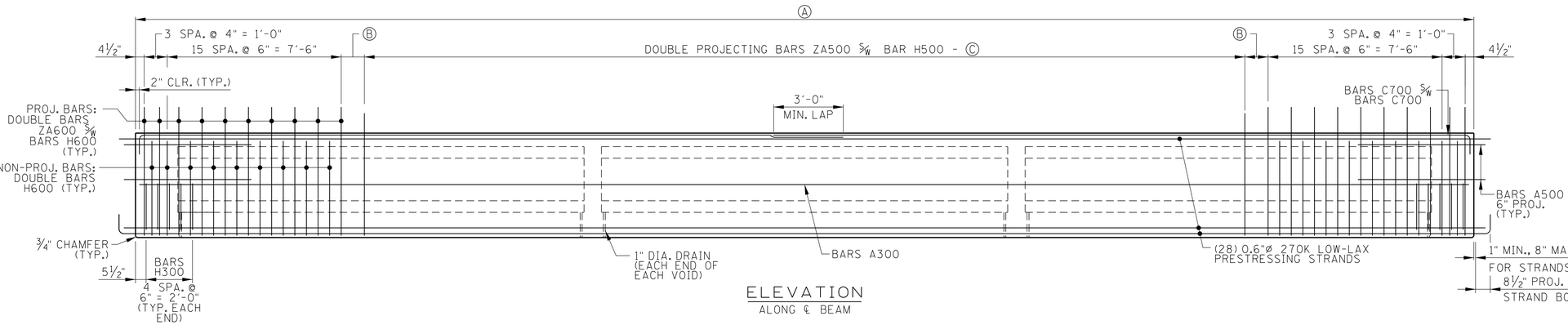
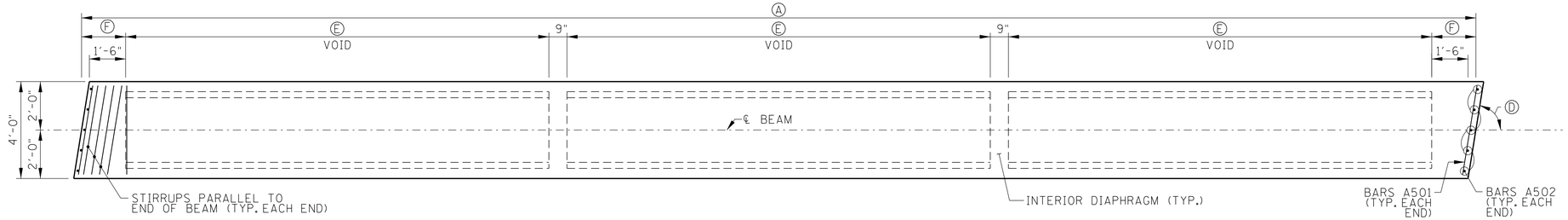
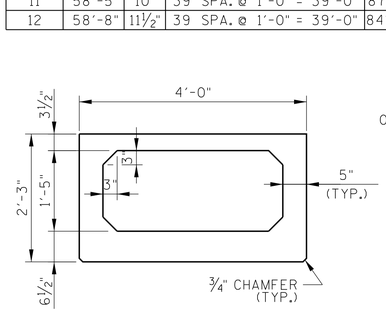


ELEVATION
ALONG ℄ BEAM

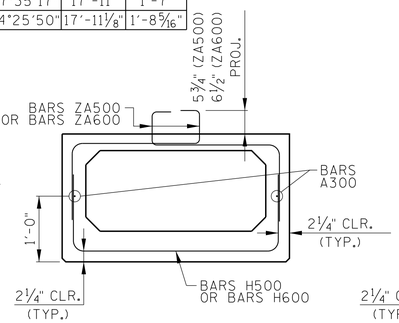


PLAN

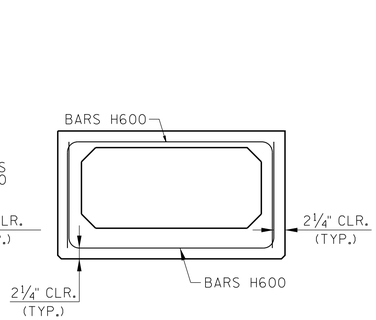
BEAM	A	B	C	D	E	F
7	59'-3⅝"	9⅝"	40 SPA. @ 1'-0" = 40'-0"	79°49'55"	18'-0⅜"	1'-10¼"
8	58'-10"	6½"	40 SPA. @ 1'-0" = 40'-0"	82°55'53"	17'-11⅜"	1'-8¹⁵⁄₁₆"
9	58'-6"	10½"	39 SPA. @ 1'-0" = 39'-0"	86°04'27"	17'-10⅞"	1'-7¹¹⁄₁₆"
10	58'-4½"	9¾"	39 SPA. @ 1'-0" = 39'-0"	89°14'27"	17'-11⅜"	1'-6⅜"
11	58'-5"	10"	39 SPA. @ 1'-0" = 39'-0"	87°35'17"	17'-11"	1'-7"
12	58'-8"	11½"	39 SPA. @ 1'-0" = 39'-0"	84°25'50"	17'-11⅛"	1'-8⁵⁄₁₆"



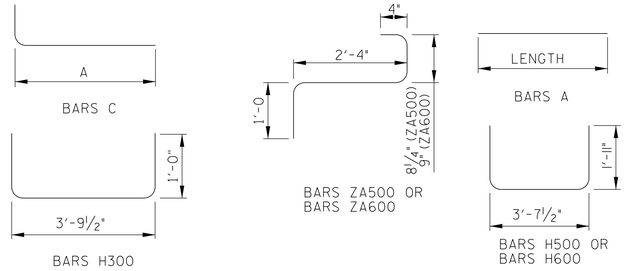
SECTION
(SHOWING PROPERTIES)



SECTION SHOWING REINFORCEMENT
(SHOWING PROJECTING STIRRUPS)

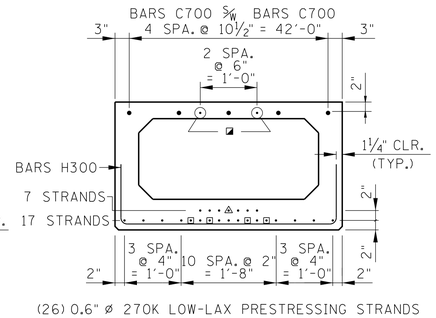


SECTION SHOWING REINFORCEMENT
(SHOWING NON-PROJECTING STIRRUPS)



BILL OF STEEL PER BEAM			
BAR	SIZE	NO. REQ'D	LENGTH
A300	3	2	①
A500	5	8	5'-6"
A501	5	6	3'-8"
A502	5	10	1'-11"
C700	7	10	②
H300	3	10	5'-9½"
H500	5	③	7'-5½"
ZA500	5	④	4'-4¼"
H600	6	56	7'-5½"
ZA600	6	40	4'-5"

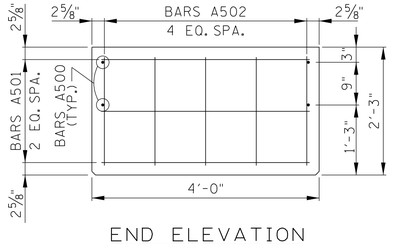
BEAM	①	②	③	④
7	58'-11⅝"	31'-9¹³⁄₁₆"	41	82
8	58'-6"	31'-7"	41	82
9	58'-2"	31'-5"	40	80
10	58'-0½"	31'-4¼"	40	80
11	58'-1"	31'-4½"	40	80
12	58'-4"	31'-6"	40	80



(26) 0.6" ø 270K LOW-LAX PRESTRESSING STRANDS

SECTION
(SHOWING PRESTRESSING STRANDS)

- ▣ DEBOND 4'-0" EACH END
- ◬ DEBOND 8'-0" EACH END
- ◪ DENOTES: (2) STRAIGHT 0.6"ø PRESTRESSED STRAND PULLED TO AN INITIAL FORCE OF 5 KIPS



END ELEVATION
(TYPICAL EACH END)

ESTIMATED QUANTITIES PER BEAM			
BEAM	CLASS "P" CONCRETE C.Y.	STEEL BAR REINFORCING LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
7	12	2390	1194
8	11	2385	1185
9	11	2364	1179
10	11	2363	1176
11	11	2363	1177
12	11	2366	1182

PRESTRESSED STRAND DATA:

LOW-LAX, ASTM A416 GRADE 270 KSI, UNCOATED
7-WIRE STRANDS DIAMETER = 0.6 INCH
AREA = 0.217 SQ. IN
INITIAL JACKING FORCE = 43,943 LBS.

DATA PER BEAM:

LIVE LOAD DISTRIBUTION FACTOR IN LANES:
MOMENT 0.918
SHEAR 1.198

COMPOSITE DEAD LOADS:
DC= 196 LB/FT
DW= 298 LB/FT

COMPOSITE DESIGN SLAB STRENGTH: f'c = 4,000 PSI.

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

BEAM NOTES:

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PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-40

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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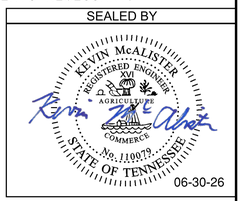

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PRESTRESSED BEAM DETAILS
27"X48" BOX BEAM - SPAN 2

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-115

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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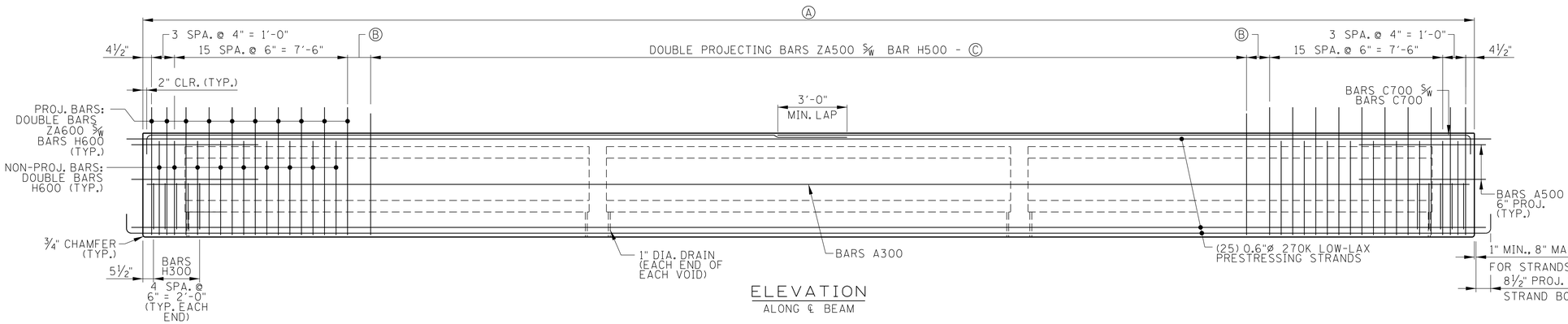
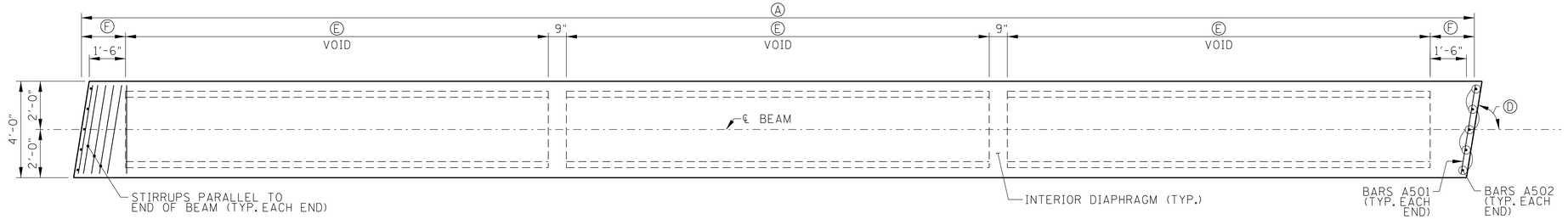
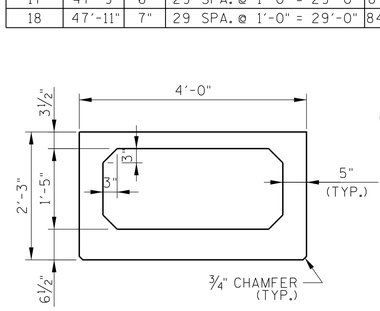


ELEVATION
ALONG ℄ BEAM

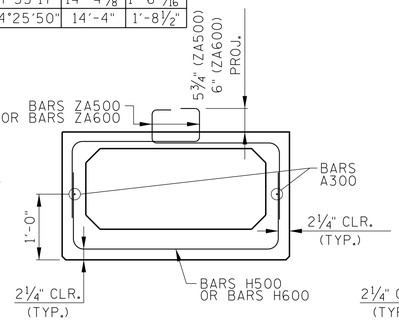


PLAN

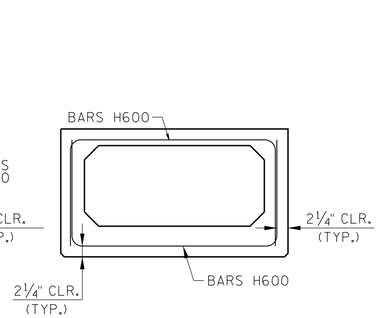
BEAM	A	B	C	D	E	F
13	48'-5½"	10¼"	29 SPA. @ 1'-0" = 29'-0"	79°49'55"	14'-5"	1'-10¼"
14	48'-0¾"	7⅞"	29 SPA. @ 1'-0" = 29'-0"	82°55'53"	14'-4¼"	1'-9"
15	47'-9¾"	6⅜"	29 SPA. @ 1'-0" = 29'-0"	86°04'27"	14'-4⅛"	1'-7¹¹⁄₁₆"
16	47'-8½"	5¾"	29 SPA. @ 1'-0" = 29'-0"	89°14'27"	14'-4⅝"	1'-6⅝"
17	47'-9"	6"	29 SPA. @ 1'-0" = 29'-0"	87°35'17"	14'-4⅜"	1'-6¹⁵⁄₁₆"
18	47'-11"	7"	29 SPA. @ 1'-0" = 29'-0"	84°25'50"	14'-4"	1'-8½"



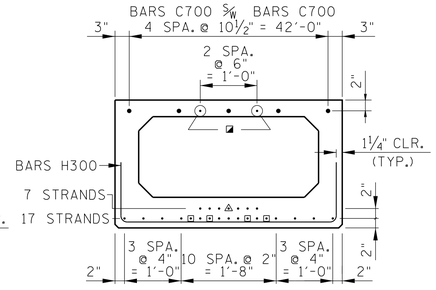
SECTION
(SHOWING PROPERTIES)



SECTION SHOWING REINFORCEMENT
(SHOWING PROJECTING STIRRUPS)



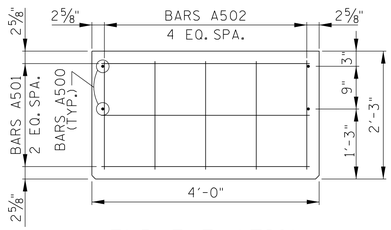
SECTION SHOWING REINFORCEMENT
(SHOWING NON-PROJECTING STIRRUPS)



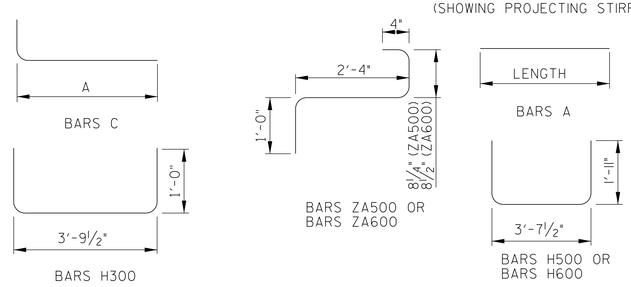
(26) 0.6" ø 270K LOW-LAX PRESTRESSING STRANDS

SECTION
(SHOWING PRESTRESSING STRANDS)

- ▣ DEBOND 4'-0" EACH END
- ◬ DEBOND 8'-0" EACH END
- ◪ DENOTES: (2) STRAIGHT 0.6"ø PRESTRESSED STRAND PULLED TO AN INITIAL FORCE OF 5 KIPS



END ELEVATION
(TYPICAL EACH END)



BILL OF STEEL PER BEAM			
BAR	SIZE	NO. REQ'D	LENGTH
A300	3	2	①
A500	5	8	5'-6"
A501	5	6	3'-8"
A502	5	10	1'-11"
C700	7	10	②
H300	3	10	5'-9½"
H500	5	③	7'-5½"
ZA500	5	④	4'-4¼"
H600	6	56	7'-5½"
ZA600	6	40	4'-6"

BEAM	①	②	③	④
13	48'-1½"	26'-4¾"	30	60
14	47'-8¾"	26'-2⅜"	30	60
15	47'-5¾"	26'-0⅛"	30	60
16	47'-4½"	26'-0¼"	30	60
17	47'-5"	26'-0½"	30	60
18	47'-7"	26'-1½"	30	60

ESTIMATED QUANTITIES PER BEAM			
BEAM	CLASS "P" CONCRETE C.Y.	STEEL BAR REINFORCING LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
13	10	2083	986
14	10	2079	978
15	9	2076	973
16	9	2075	971
17	9	2075	972
18	10	2077	975

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-41

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

PRESTRESSED STRAND DATA:

LOW-LAX, ASTM A416 GRADE 270 KSI, UNCOATED
7-WIRE STRANDS DIAMETER = 0.6 INCH
AREA = 0.217 SQ. IN
INITIAL JACKING FORCE = 43,943 LBS.

DATA PER BEAM:

LIVE LOAD DISTRIBUTION FACTOR IN LANES:
MOMENT 0.918
SHEAR 1.198

COMPOSITE DEAD LOADS:
DC= 196 LB/FT
DW= 378 LB/FT

COMPOSITE DESIGN SLAB STRENGTH: f'c = 4,000 PSI.

ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

BEAM NOTES:

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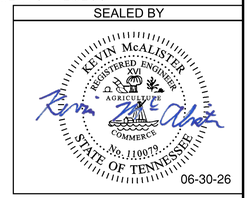
TOP FLANGE TO BE CLEAN, FREE OF LAITANCE, AND INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF ¼".

ALL BOX BEAMS ARE 27" H X 48" W.

CONTRACTOR SHALL FIELD VERIFY BEAM LENGTH PRIOR TO FABRICATING BEAMS. SHOULD FIELD MEASUREMENTS VARY GREATER THAN 2", THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IN ORDER TO VERIFY THE BEAM DESIGN AND MAKE ANY ADJUSTMENTS NECESSARY.

SEALED BY



PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PRESTRESSED BEAM DETAILS 27"X48" BOX BEAM - SPAN 3

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-116

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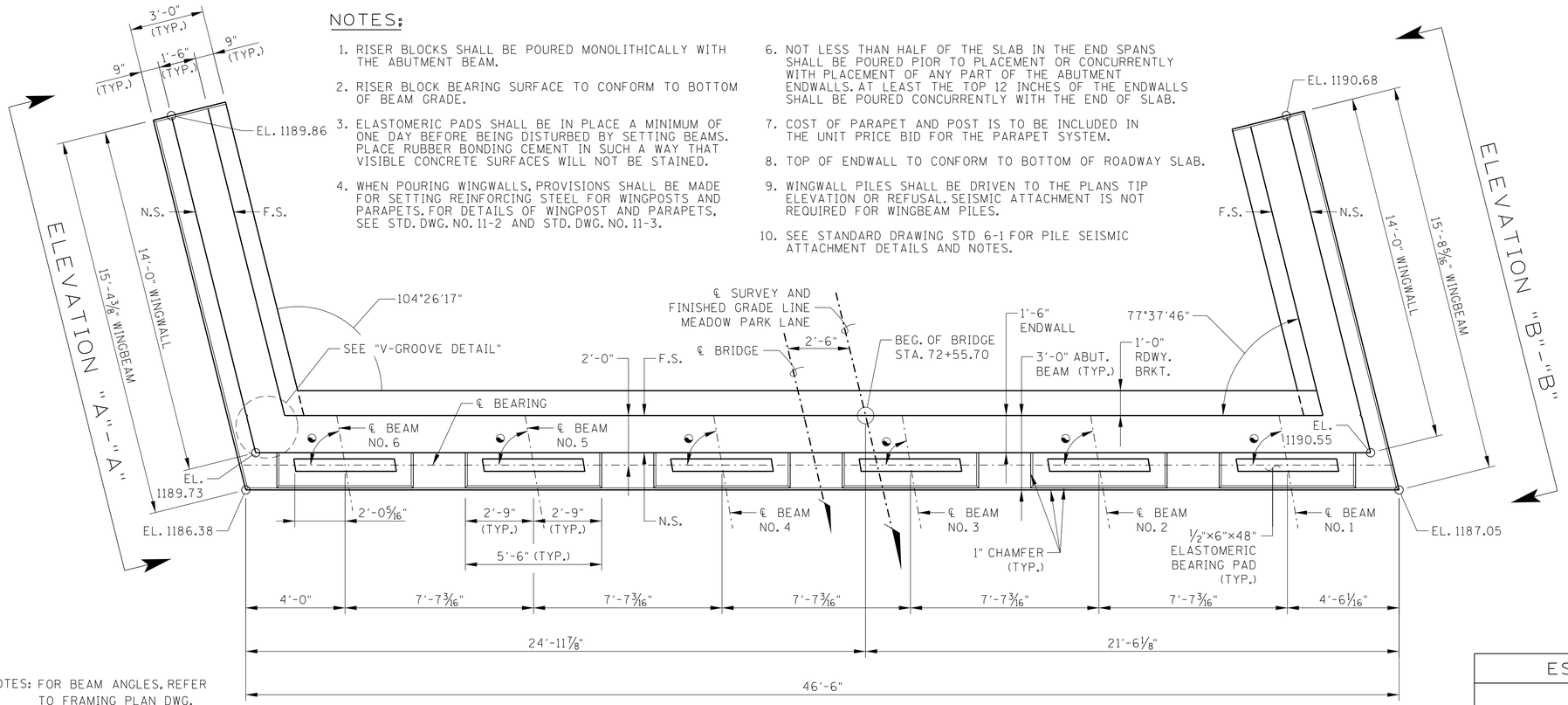
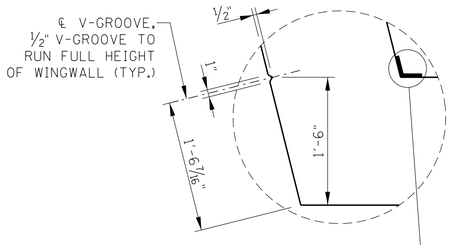
NOTES:

1. RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOST AND PARAPETS, SEE STD. DWG. NO. 11-2 AND STD. DWG. NO. 11-3.
6. NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PIOR TO PLACEMENT OR CONCURRENTLY WITH PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
7. COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
8. TOP OF ENDWALL TO CONFORM TO BOTTOM OF ROADWAY SLAB.
9. WINGWALL PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.
10. SEE STANDARD DRAWING STD 6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.

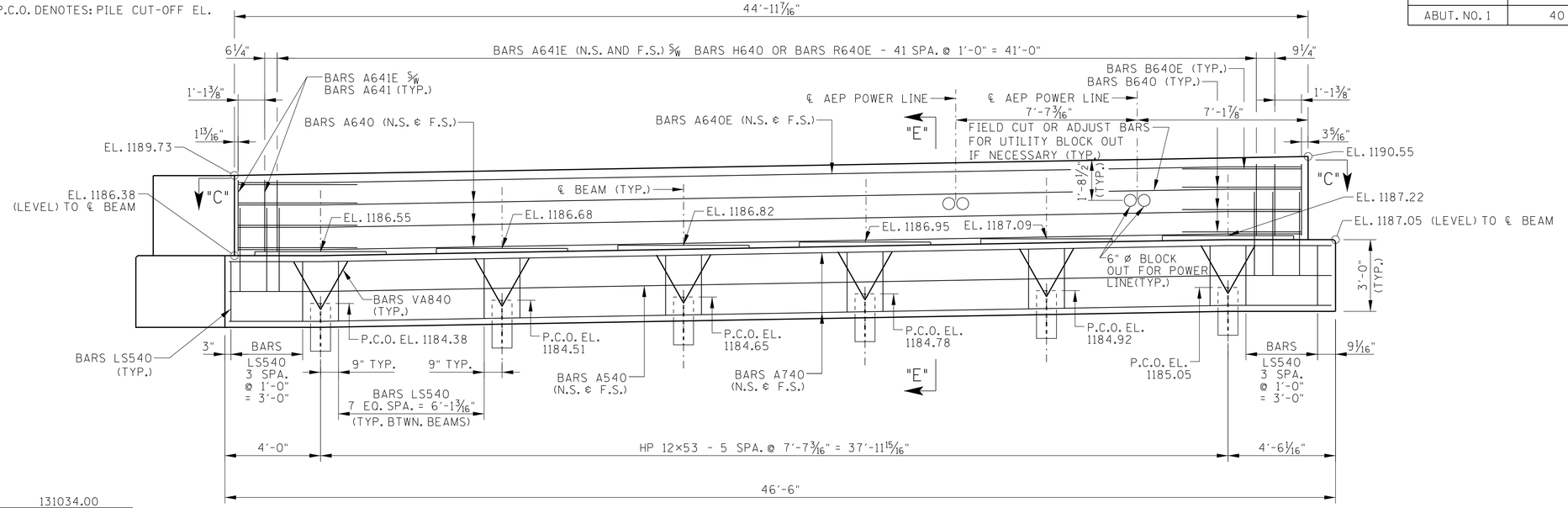


PLAN
(N.T.S.)



"V-GROOVE DETAIL"
(N.T.S.)

◒ DENOTES: FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-111
F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE
P.C.O. DENOTES: PILE CUT-OFF EL.



ELEVATION
(LOOKING BACK ON SURVEY) (N.T.S.)

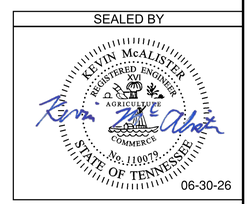
ESTIMATED ABUTMENT QUANTITIES			
LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 1	40	1448	4782

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-42

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

ABUTMENT NO. 1

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-117

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

5/22/2026 9:09:02 PM
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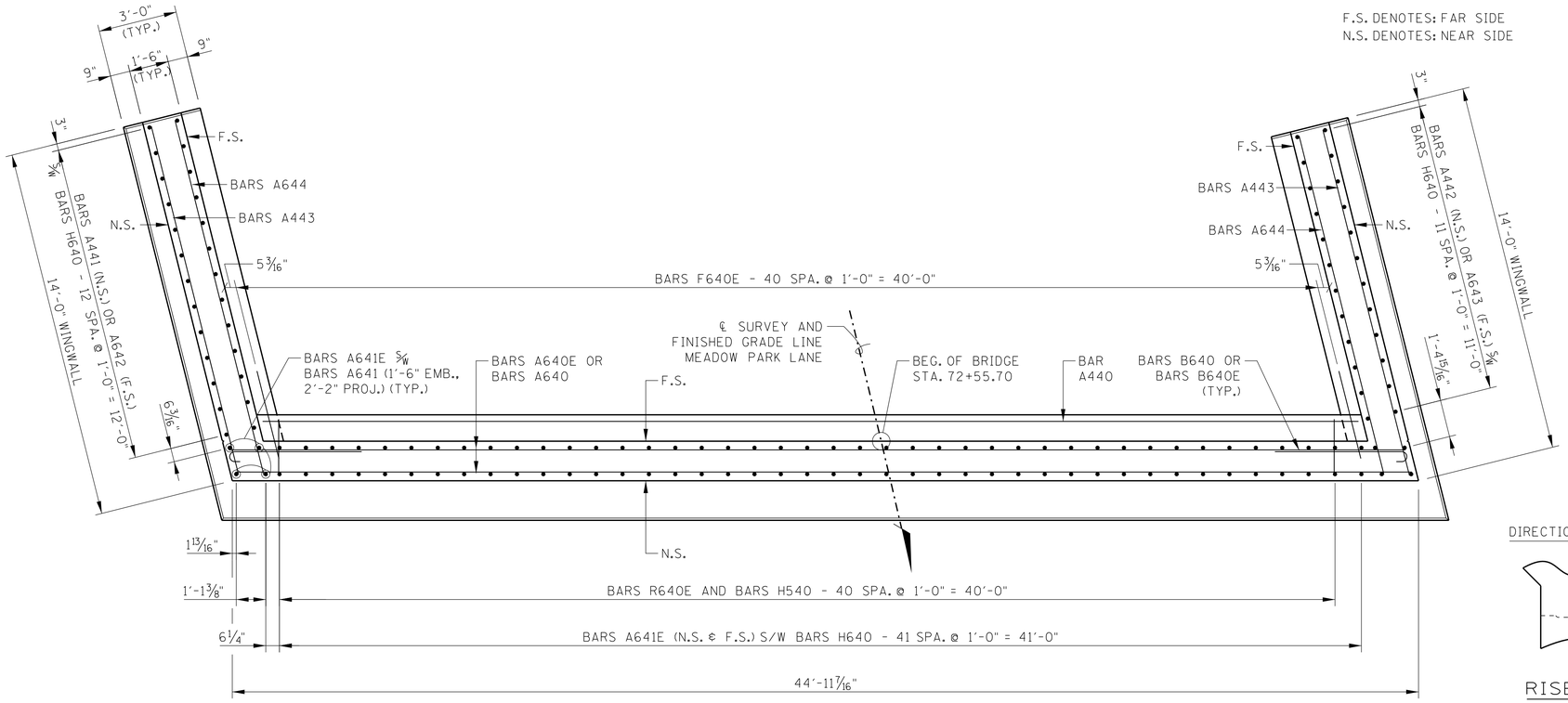
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-43

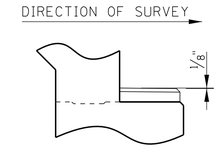
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

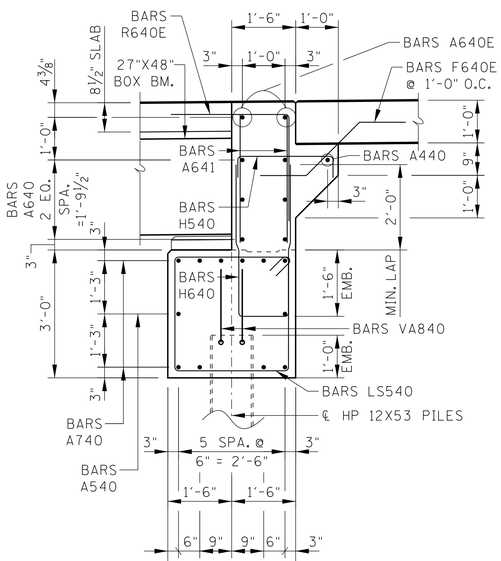
F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE



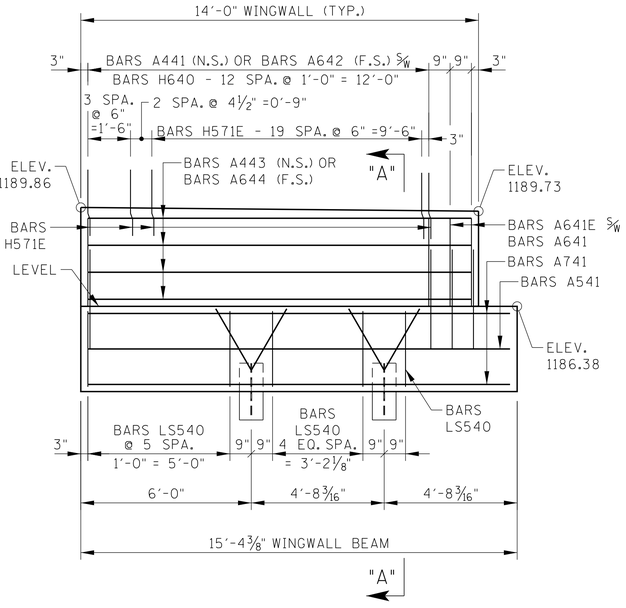
SECTION "C"-"C"
(N.T.S.)



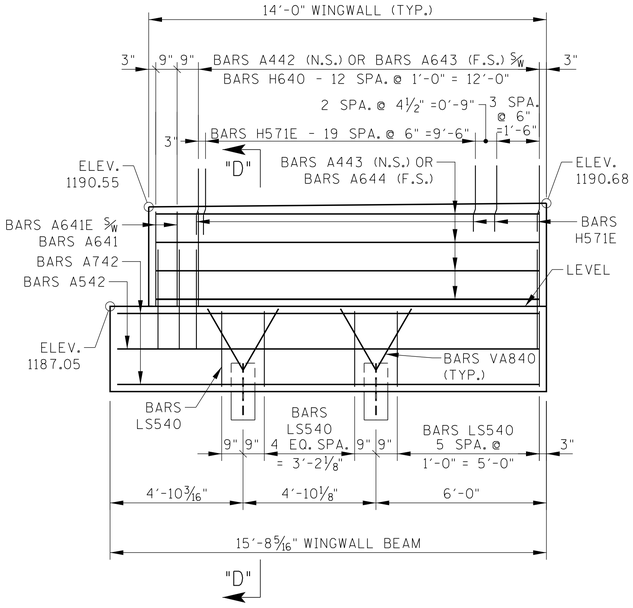
RISER BLOCK SLOPE DETAIL
(N.T.S.)



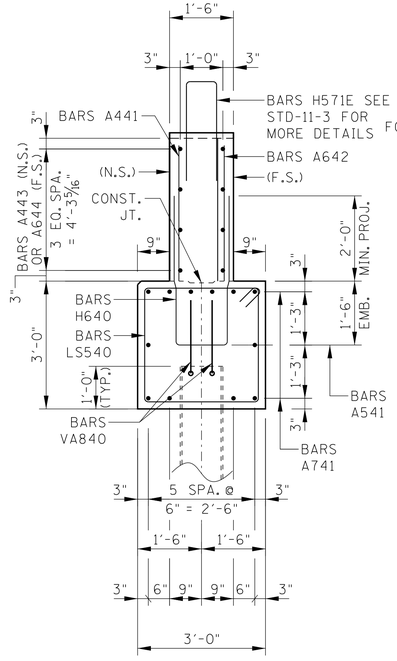
SECTION "E"-"E"
(N.T.S.)



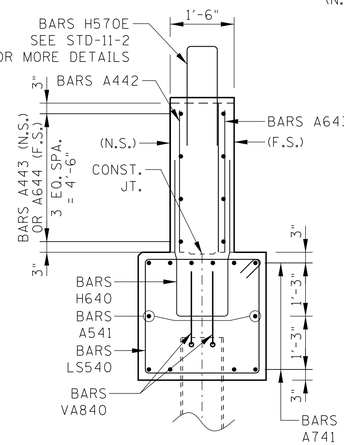
ELEVATION "A"-"A"
(N.T.S.)



ELEVATION "B"-"B"
(N.T.S.)



SECTION "A"-"A"
(N.T.S.)



SECTION "D"-"D"
(SEE SECTION "A"-"A" FOR DIMENSIONS)
(N.T.S.)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

ABUTMENT NO. 1 DETAILS

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-118

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-44

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

PRE-DRILLED PILE NOTES

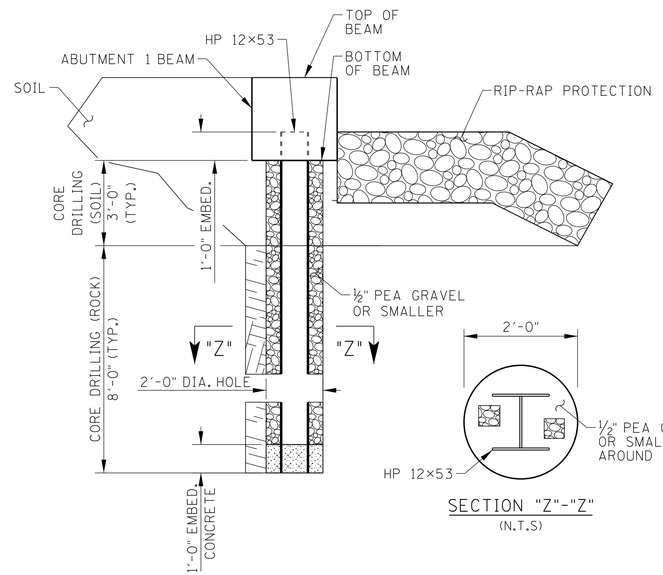
1. ALL PILES AT ABUTMENT NO. 1 SHALL BE INSTALLED ACCORDING TO THE DETAILS SHOWN ON THIS SHEET. STEEL PILE TIPS ARE NOT REQUIRED.

2. A 2'-0" DIAMETER HOLE (10'-0" MINIMUM IN LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF CORE DRILLING (ROCK) AND CORE DRILLING (SOIL) WILL VARY DUE TO LOCATION OF ROCK LINE.

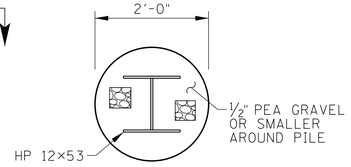
3. THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE, AND THE PILE SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.

4. AS SOON AS THE CONCRETE HAS OBTAINED ITS INITIAL SET AND IT IS ABLE TO STABILIZE THE PILE TIP LOCATION IN THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH PEA GRAVEL. THE TOP OF THE PILE SHALL BE BRACED IN A MANNER THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

5. BASIS FOR PAYMENT:
THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES, PILE END ENCASEMENT, BACKFILLING WITH PEA GRAVEL, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NO. 204-14, CORE DRILLING FOR PILES (ROCK).

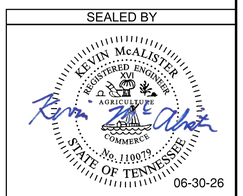


PRE-DRILLED PILE DETAILS
(N.T.S)



SECTION "Z"-"Z"
(N.T.S)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

ABUTMENT NO. 1
STEEL PILE DETAILS

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-118A

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

5/22/2026 9:09:57 PM
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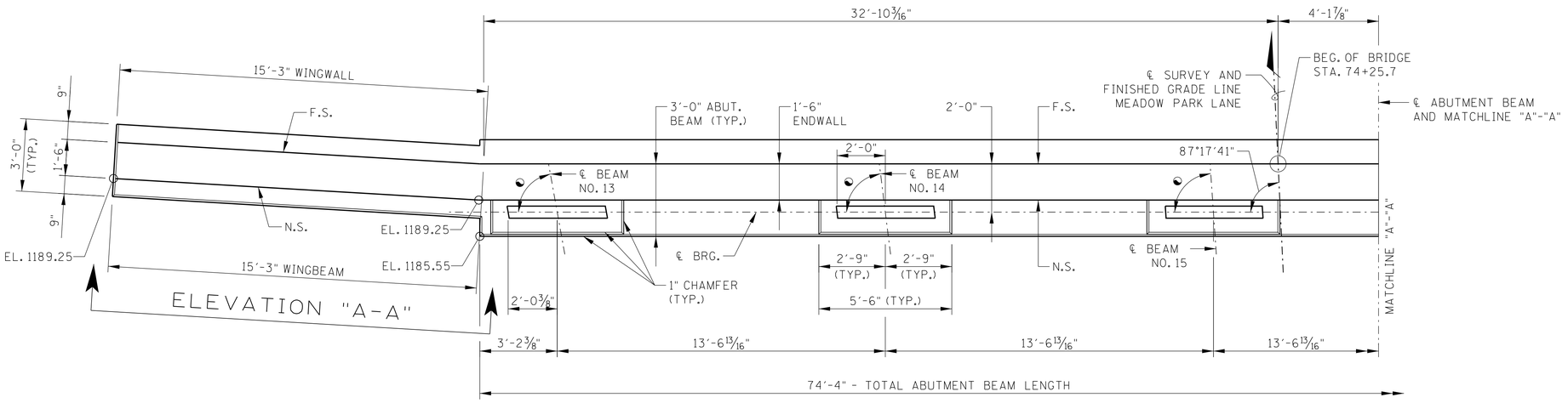
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-45

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PLAN

(N.T.S.)

◒ DENOTES: FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-111

◭ DENOTES: 3 EQ. SPA. = 2-3⅜"

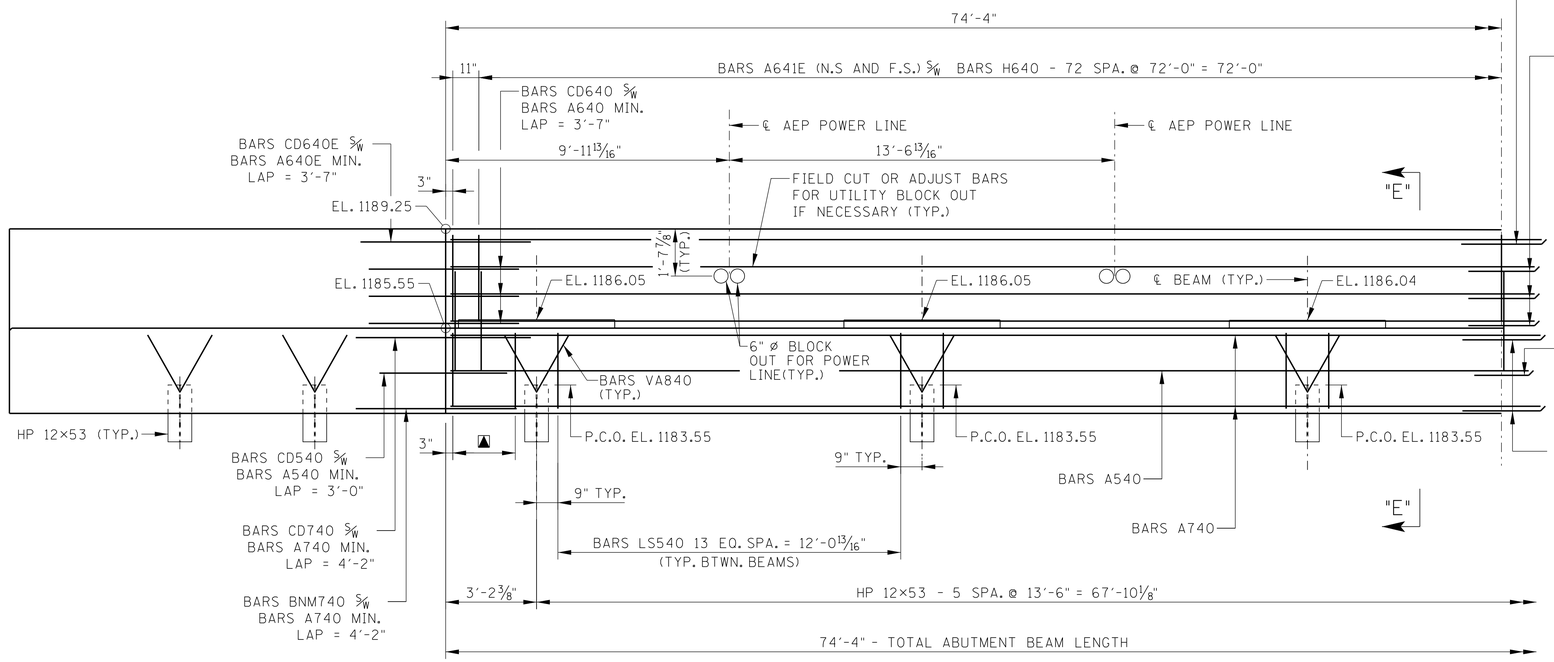
F.S. DENOTES: FAR SIDE

N.S. DENOTES: NEAR SIDE

P.C.O. DENOTES: PILE CUT-OFF EL.

NOTES:

1. RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOST AND PARAPETS, SEE STD. DWG. NO. 11-2 AND STD. DWG. NO. 11-3.
5. NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PIOR TO PLACEMENT OR CONCURRENTLY WITH PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
6. COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
7. TOP OF ENDWALL TO CONFORM TO BOTTOM OF ROADWAY SLAB.
8. WINGWALL PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.
9. SEE STANDARD DRAWING STD-6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.



ELEVATION

(LOOKING AHEAD ON SURVEY) (N.T.S.)

ESTIMATED ABUTMENT QUANTITIES

LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 2	59	2305	7220

SEALED BY

KEVIN McALISTER — REGISTERED ENGINEER — No. 110079 — STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

ABUTMENT NO. 2 (1 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-119

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

5/22/2026 9:10:28 PM
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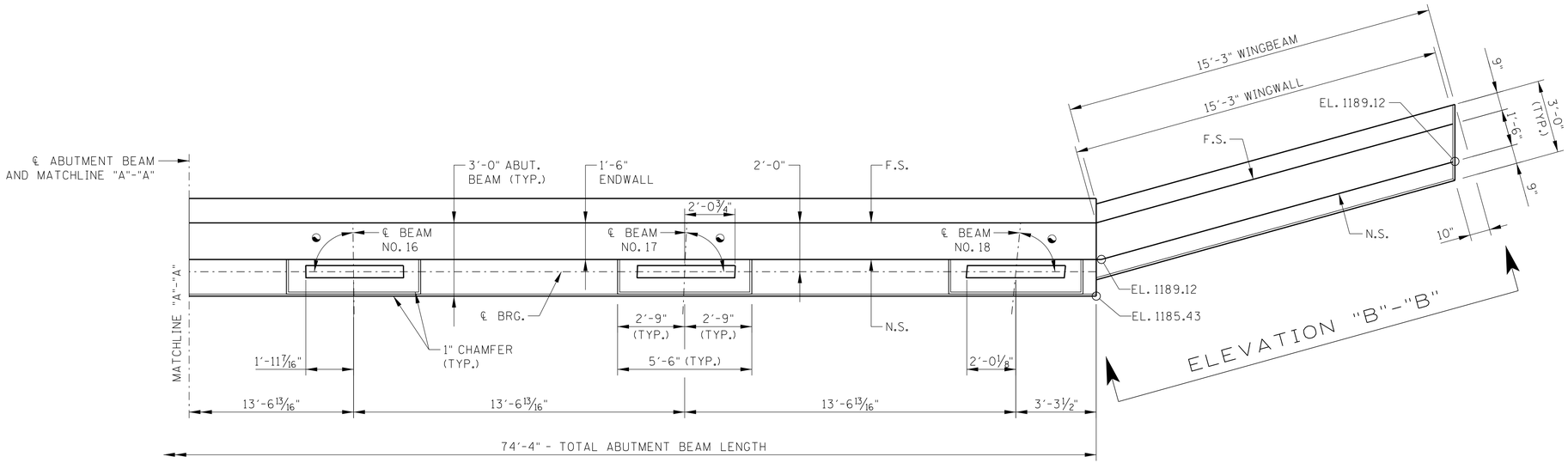

PLAN

(N.T.S.)

- ◒ DENOTES: FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-111
- ◭ DENOTES: 3 EQ. SPA. = 2-3⅜"
- F.S. DENOTES: FAR SIDE
- N.S. DENOTES: NEAR SIDE
- P.C.O. DENOTES: PILE CUT-OFF EL.

NOTES:

1. RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOST AND PARAPETS, SEE STD. DWG. NO. 11-2 AND STD. DWG. NO. 11-3.
5. NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PIOR TO PLACEMENT OR CONCURRENTLY WITH PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
6. COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
7. TOP OF ENDWALL TO CONFORM TO BOTTOM OF ROADWAY SLAB.
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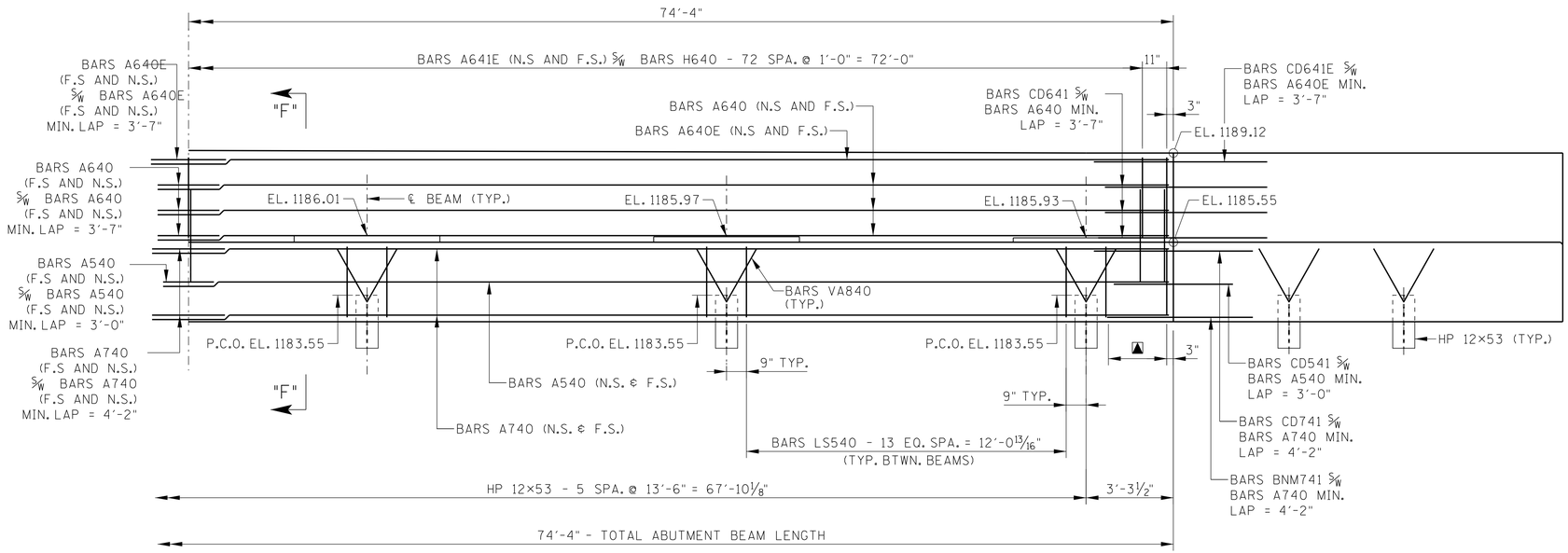
9. SEE STANDARD DRAWING STD-6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.



ELEVATION

(LOOKING AHEAD ON SURVEY) (N.T.S.)

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-46

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SEALED BY

KEVIN McALISTER — REGISTERED ENGINEER — No. 110079 — STATE OF TENNESSEE

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

ABUTMENT NO. 2 (2 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-120

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

5/22/2026 9:11:00 PM
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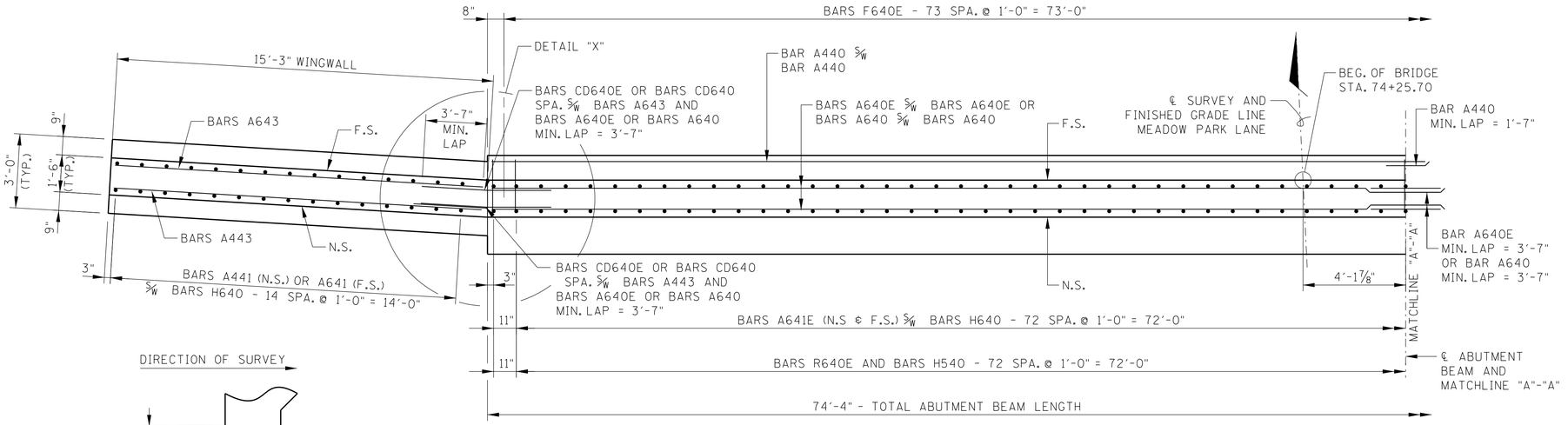
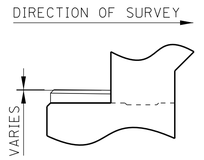
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-47

REVISIONS

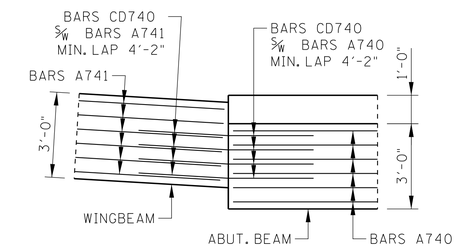
NO.	DATE	BY	BRIEF DESCRIPTION



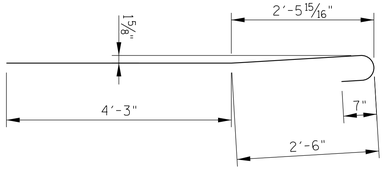
SECTION "C"-"C"
(N.T.S.)
F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE



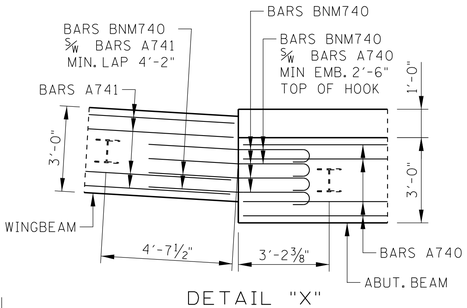
RISER BLOCK
SLOPE DETAIL
1/8" FOR BEAMS 13 - 15
1/16" FOR BEAMS 16 - 17



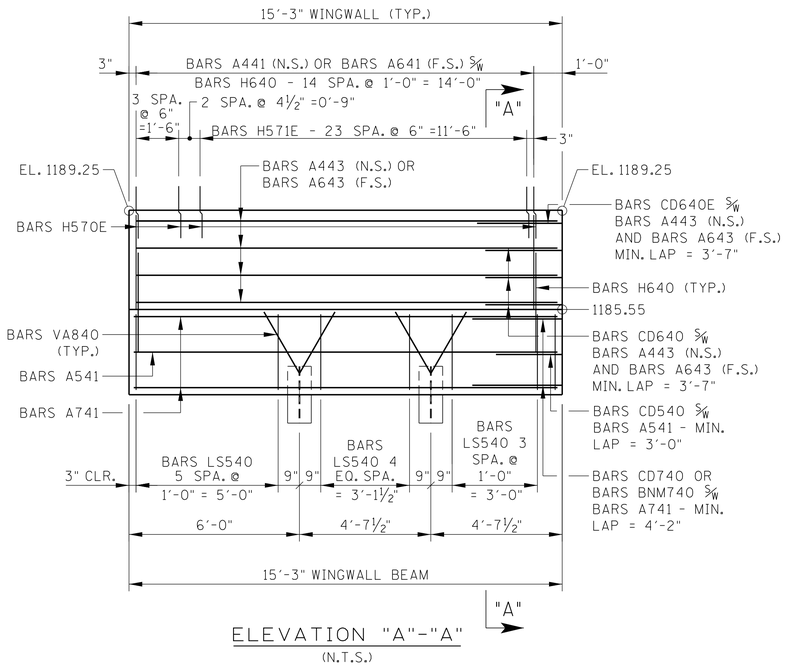
DETAIL "X"
(TOP LAYER) (N.T.S.)



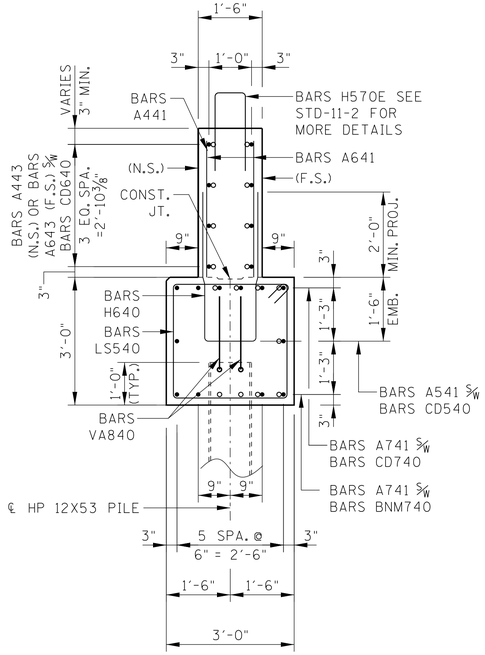
BAR BNM740



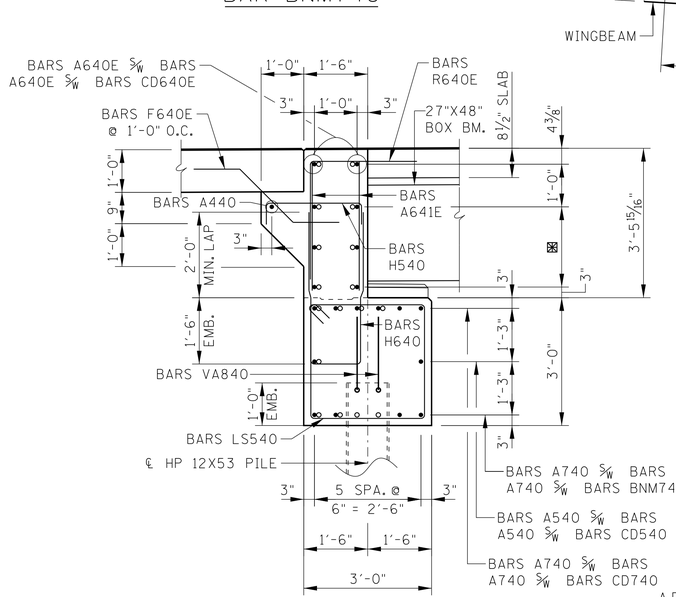
DETAIL "X"
(BOTTOM LAYER) (N.T.S.)



ELEVATION "A"-"A"
(N.T.S.)



SECTION "A"-"A"
(N.T.S.)

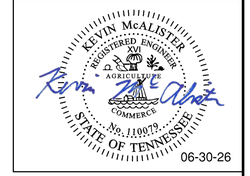


SECTION "E"-"E"
(N.T.S.)

⊠ DENOTES: BARS A640 S/W BARS
A640 S/W BARS CD640
2 EQ. SPA. = 1'-10 9/16"

○ DENOTES: CD OR BNM BARS - SEE DETAIL "X"

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

ABUTMENT NO. 2 DETAILS (1 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-121

PIN NO.: 131034.00

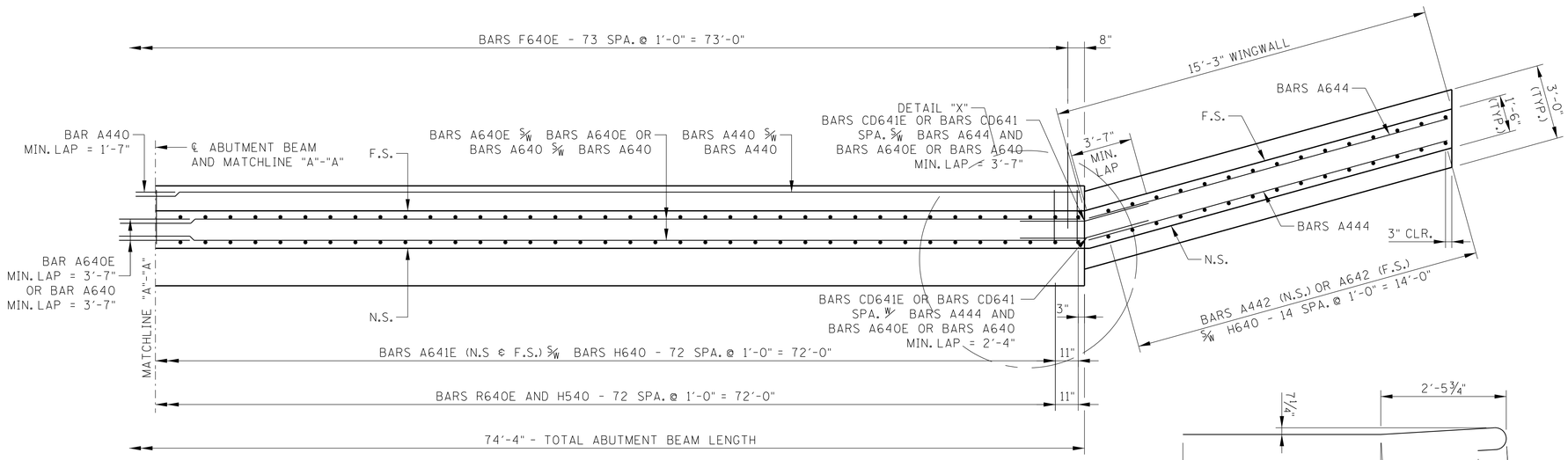
DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

5/22/2026 9:11:32 PM
F:\3737743\3774302\04_CAD\TRNS\BRIDGE\DGN\3774302_BRIDGE02_FINAL.DGN - BRIDGE 2\SIA BRIDGE02 BORDER.DGN

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-48

REVISIONS

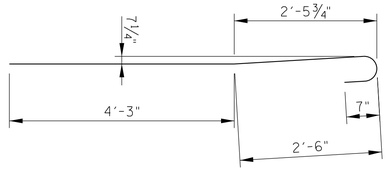
NO.	DATE	BY	BRIEF DESCRIPTION



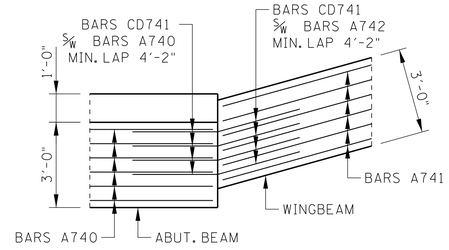
SECTION "C"-"C"

(N.T.S.)

F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE

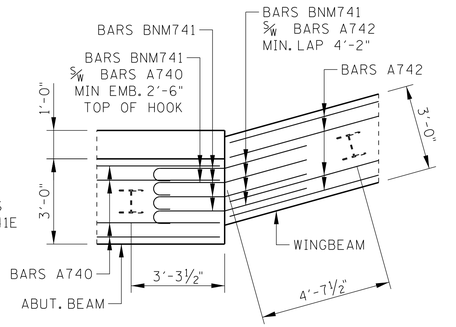


BAR BNM741



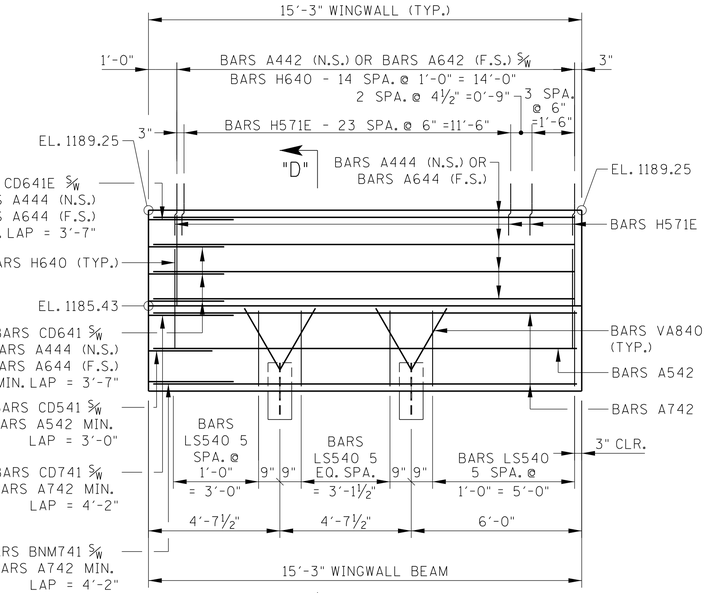
DETAIL "X"

(TOP LAYER) (N.T.S.)



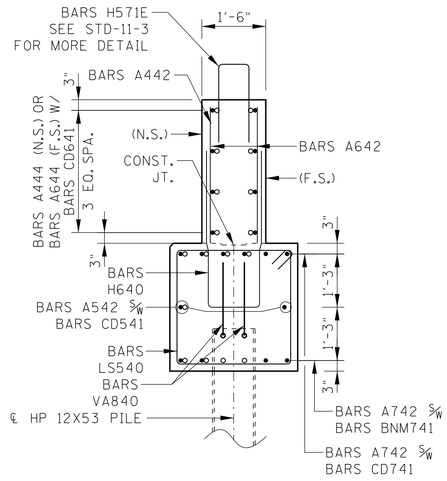
DETAIL "X"

(BOTTOM LAYER) (N.T.S.)



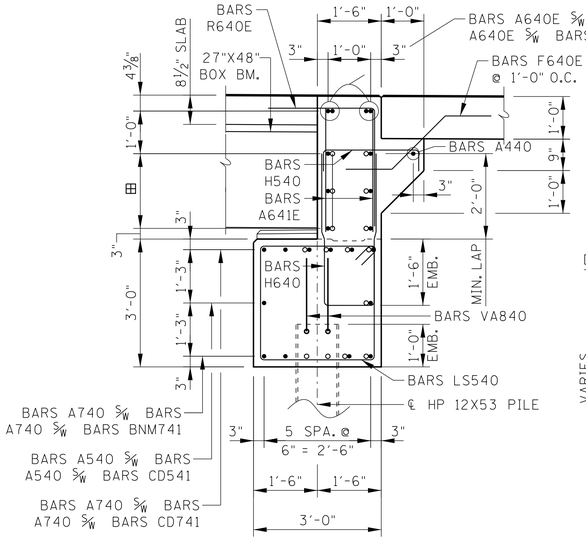
ELEVATION "B"-"B"

(N.T.S.)



SECTION "D"-"D"

(SEE SECTION "A"-"A" FOR DIMENSIONS) (N.T.S.)

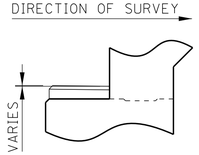


SECTION "F"-"F"

(N.T.S.)

⊞ DENOTES: BARS A640 ℄ BARS
A640 ℄ BARS CD641
2 EQ. SPA. = 1'-10⅜"

○ DENOTES: CD OR BNM BARS - SEE DETAIL "X"



RISER BLOCK SLOPE DETAIL

⅛" FOR BEAMS 13 - 15
1/16" FOR BEAMS 16 - 17

SEALED BY
KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

ABUTMENT NO. 2 DETAILS (2 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-122

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

5/22/2026 9:12:07 PM
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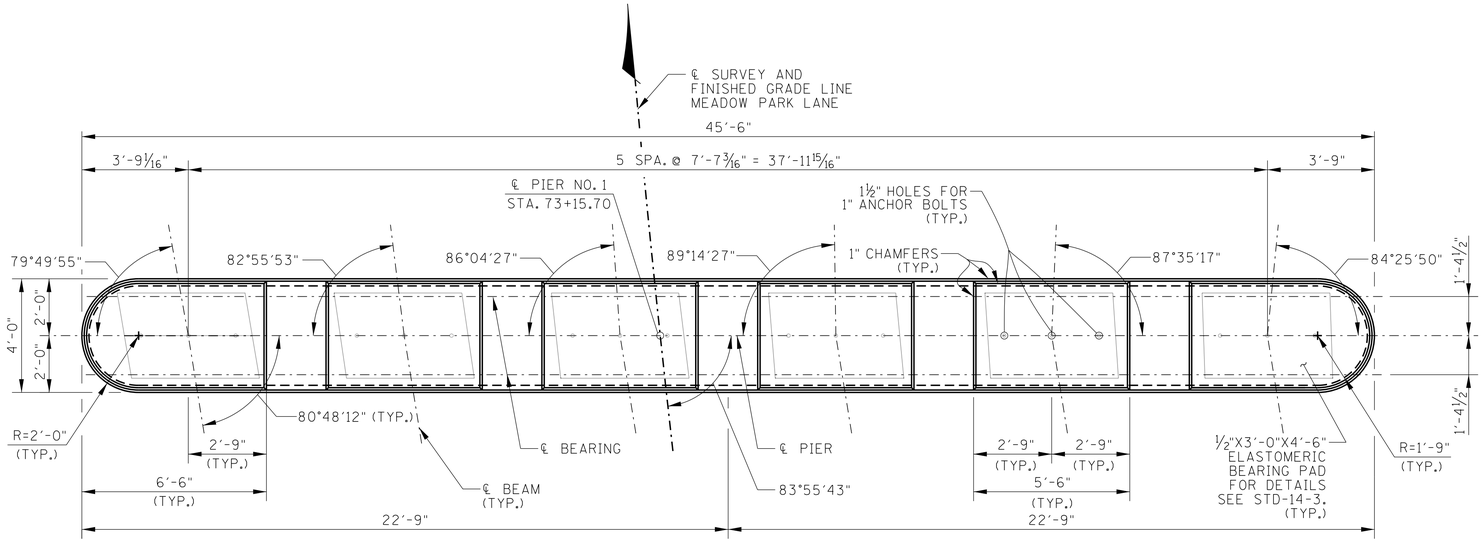
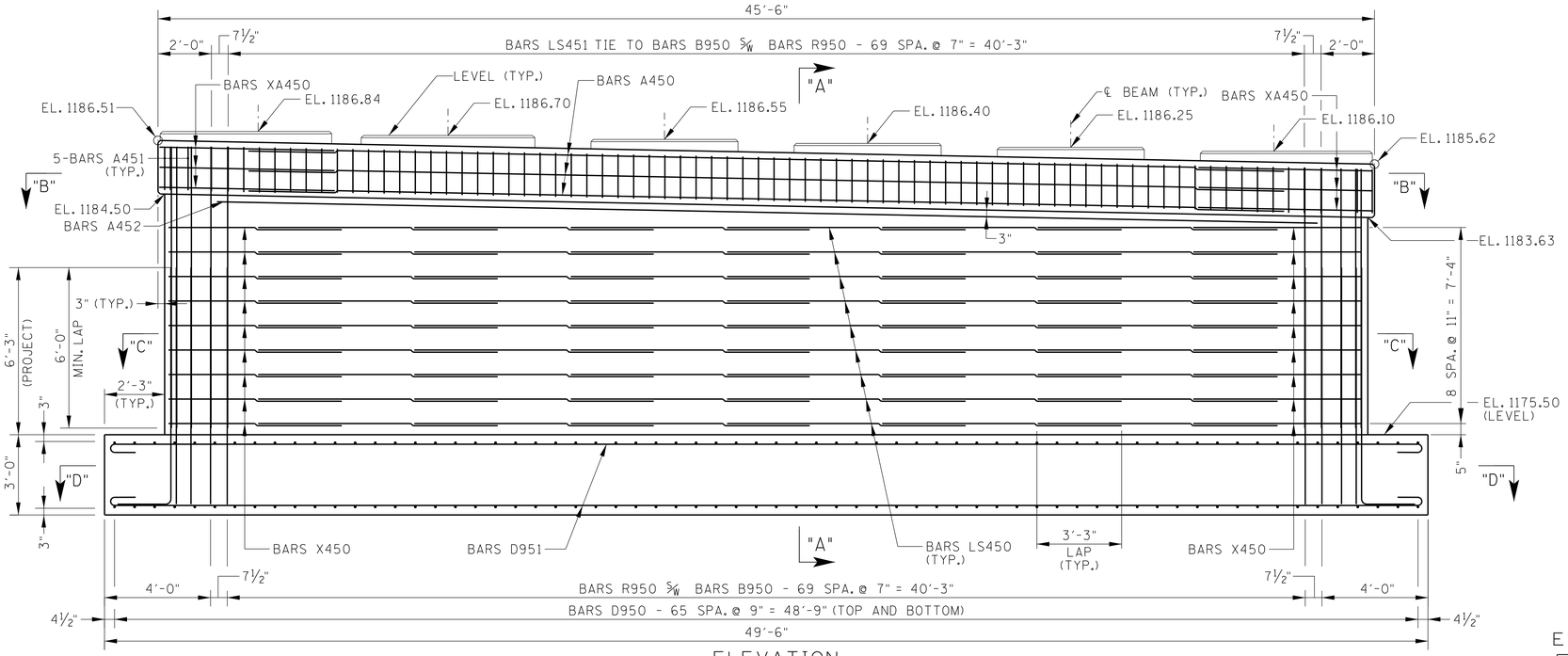
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-49

REVISIONS

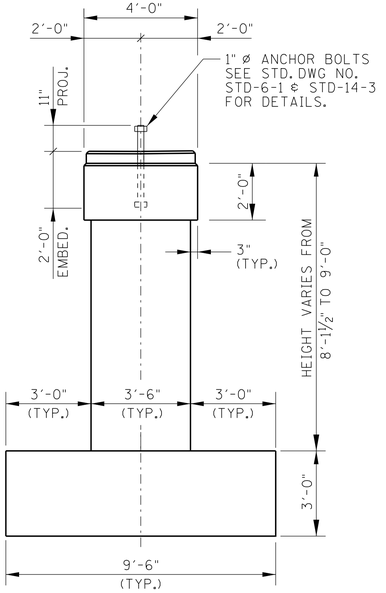
NO.	DATE	BY	BRIEF DESCRIPTION



PLAN
(N.T.S.)



ELEVATION
(LOOKING FORWARD ON SURVEY) (N.T.S.)



END ELEVATION
(N.T.S.)

NOTES:

1. WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
2. RISER BLOCKS TO BE POURED MONLITHICALLY WITH BENT CAP.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. WALL STEEL SHALL EXTEND 1'-10" INTO BENT CAP.

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
114	22,550

SEALED BY

KEVIN McALISTER REGISTERED ENGINEER No. 119079 STATE OF TENNESSEE
06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PIER NO. 1

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-123

PIN NO.: 131034.00

DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

5/22/2026 9:12:33 PM
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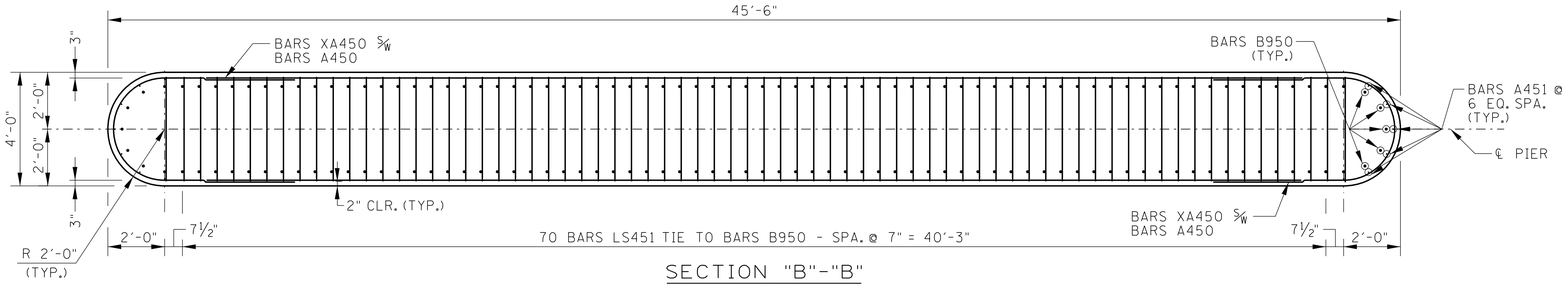
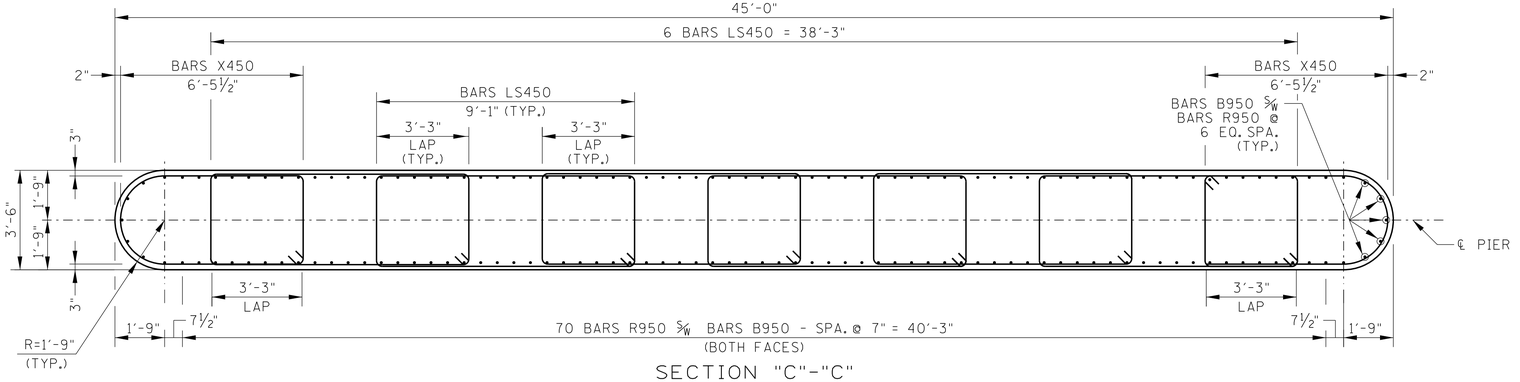
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-50

REVISIONS

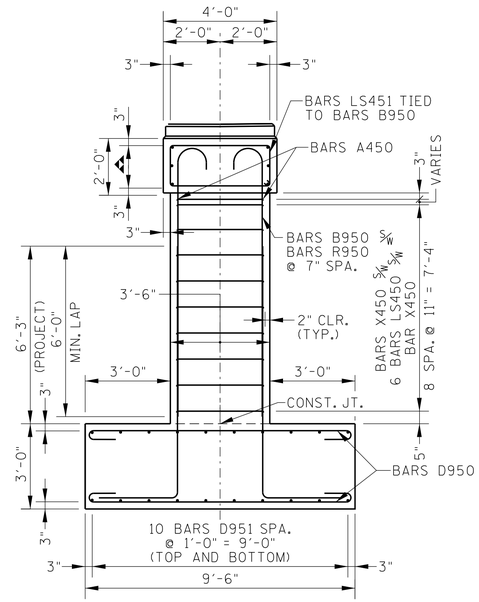
NO.	DATE	BY	BRIEF DESCRIPTION



SECTION "B"-"B"
(N.T.S.)

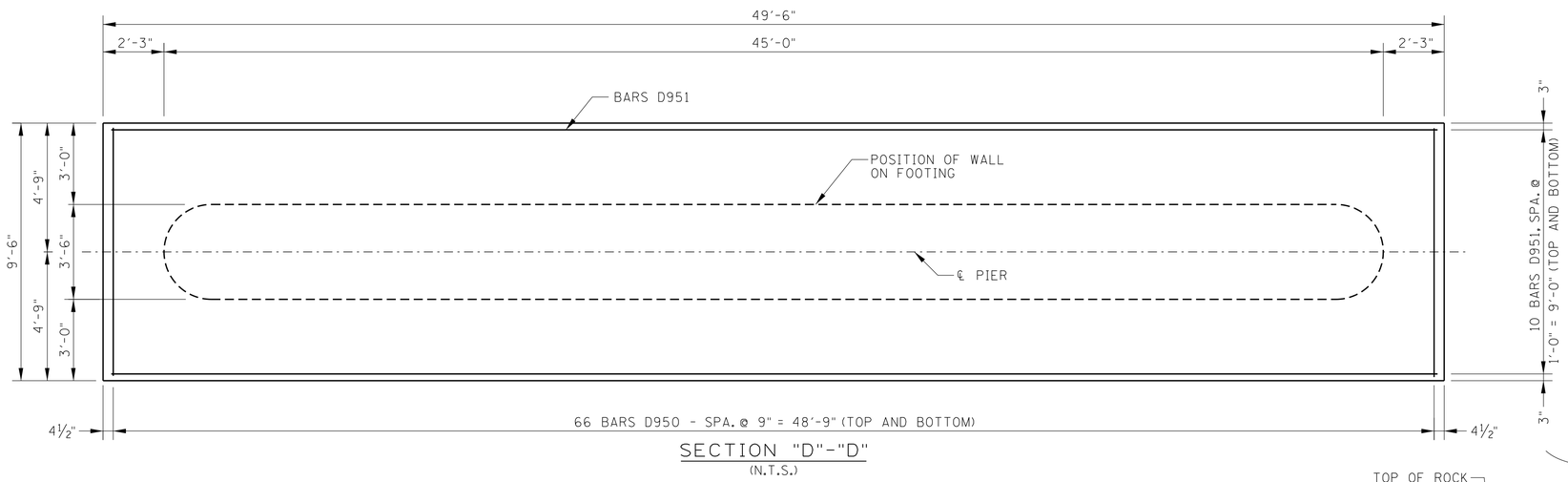


SECTION "C"-"C"
(N.T.S.)

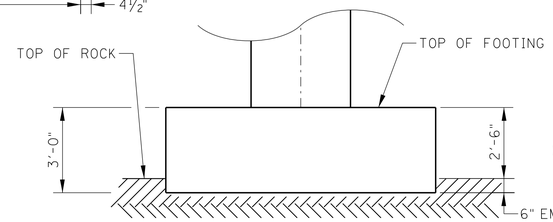


SECTION "A"-"A"
(N.T.S.)

▲ DENOTES: BARS XA450 S/W BARS A450 S/W
BARS XA450 - 2 SPA. @ 9" = 1'-6"



SECTION "D"-"D"
(N.T.S.)



FOOTING DETAIL
(N.T.S.)

SEALED BY

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PIER NO. 1 DETAILS

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-124

PIN NO.:	131034.00	
DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

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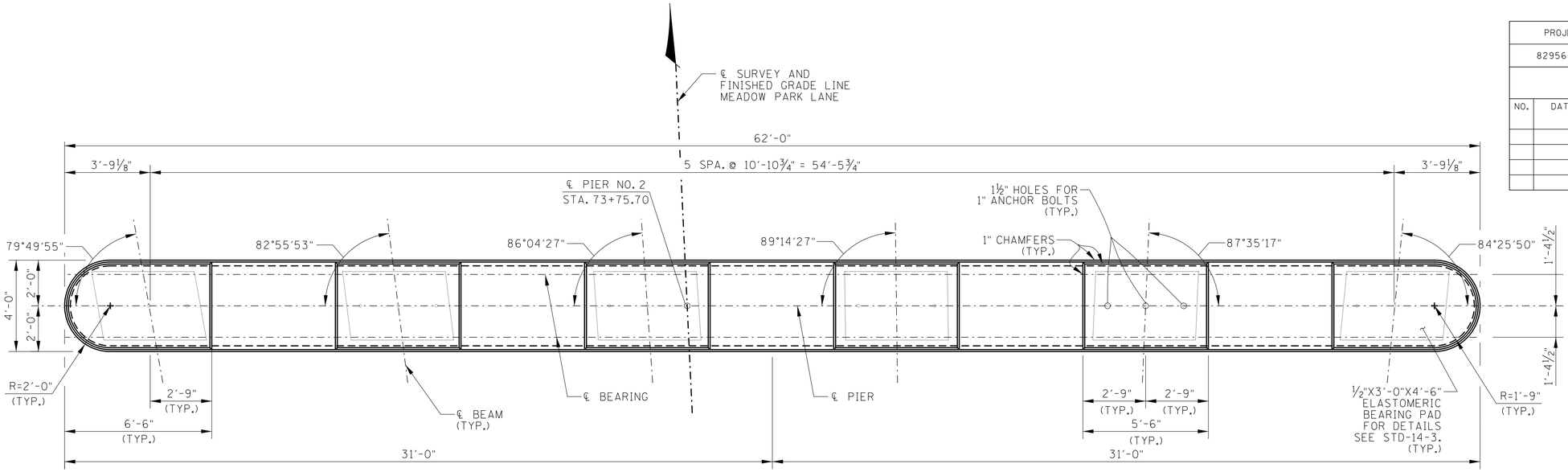
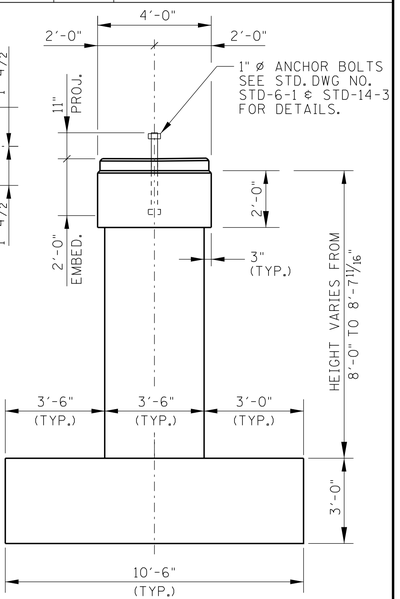
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-51

REVISIONS

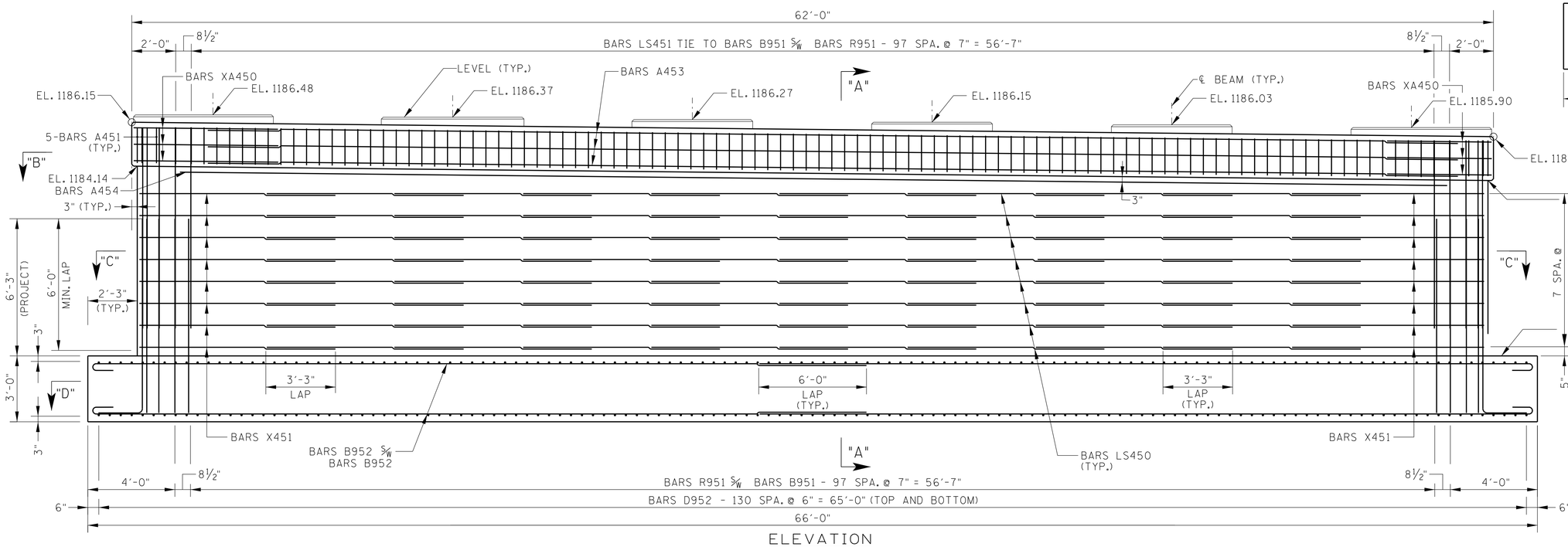
NO.	DATE	BY	BRIEF DESCRIPTION



PLAN
(N.T.S.)



END ELEVATION
(N.T.S.)



ELEVATION
(LOOKING FORWARD ON SURVEY) (N.T.S)

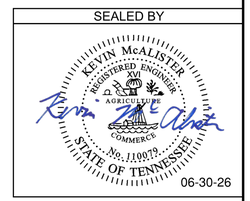
NOTES:

1. WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
2. RISER BLOCKS TO BE POURED MONLITHICALLY WITH BENT CAP.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. WALL STEEL SHALL EXTEND 1′-10" INTO BENT CAP.

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
160	35,875

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PIER NO. 2

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-125

PIN NO.:	131034.00	
DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

5/22/2026 9:13:10 PM
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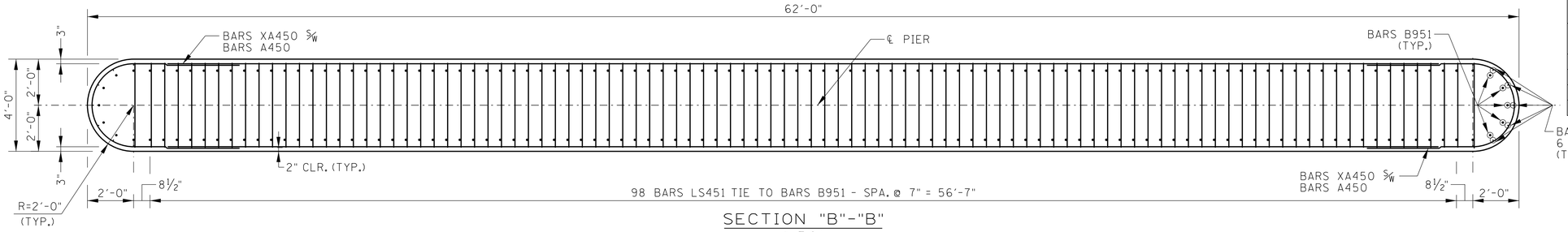
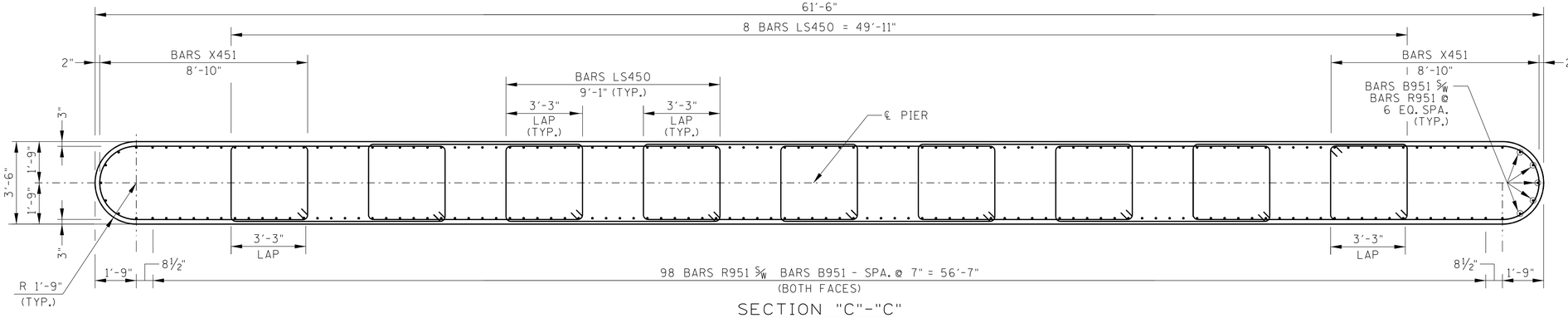
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-52

REVISIONS

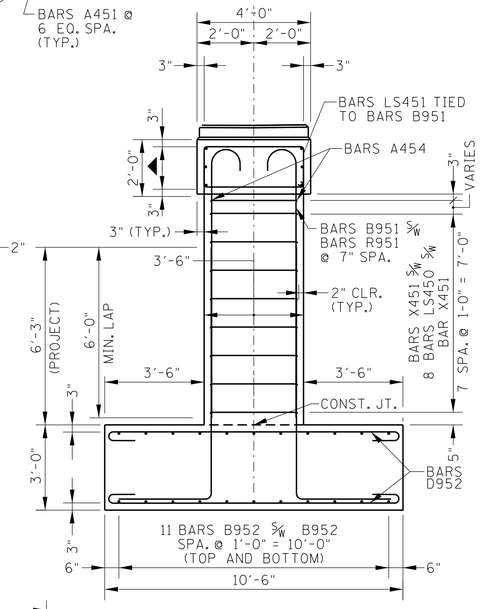
NO.	DATE	BY	BRIEF DESCRIPTION



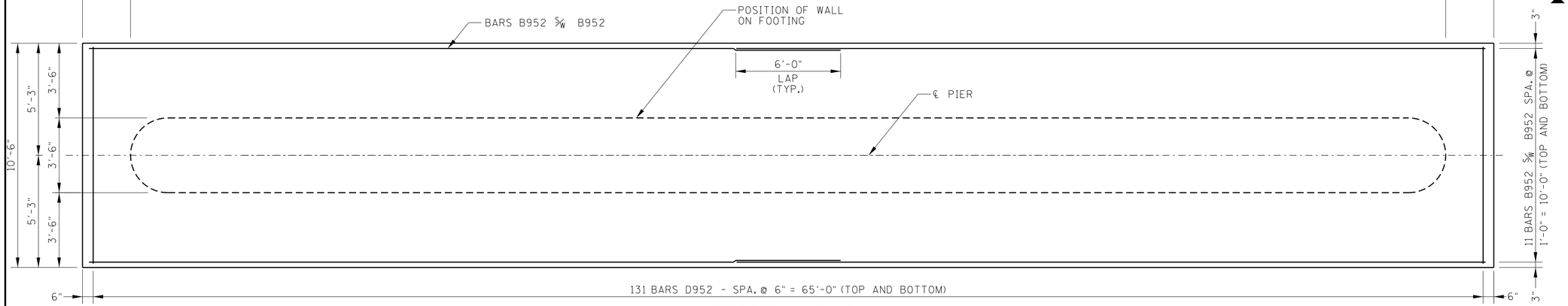
SECTION "B"-"B"
(N.T.S.)



SECTION "C"-"C"
(N.T.S.)



SECTION "A"-"A"

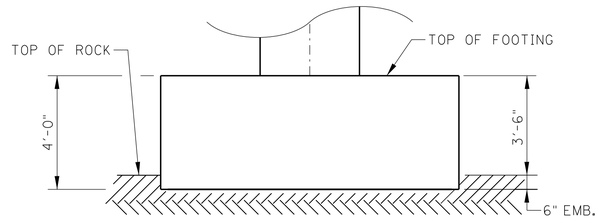


SECTION "D"-"D"
(N.T.S.)

▲ DENOTES: BARS XA450 S/W BARS A453 S/W
BARS XA450 - 2 SPA. @ 9" = 1'-6"

SEALED BY

KEVIN McALISTER
REGISTERED ENGINEER
No. 110079
STATE OF TENNESSEE
06-30-26



FOOTING DETAIL
(N.T.S.)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

PIER NO. 2 DETAILS

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-126

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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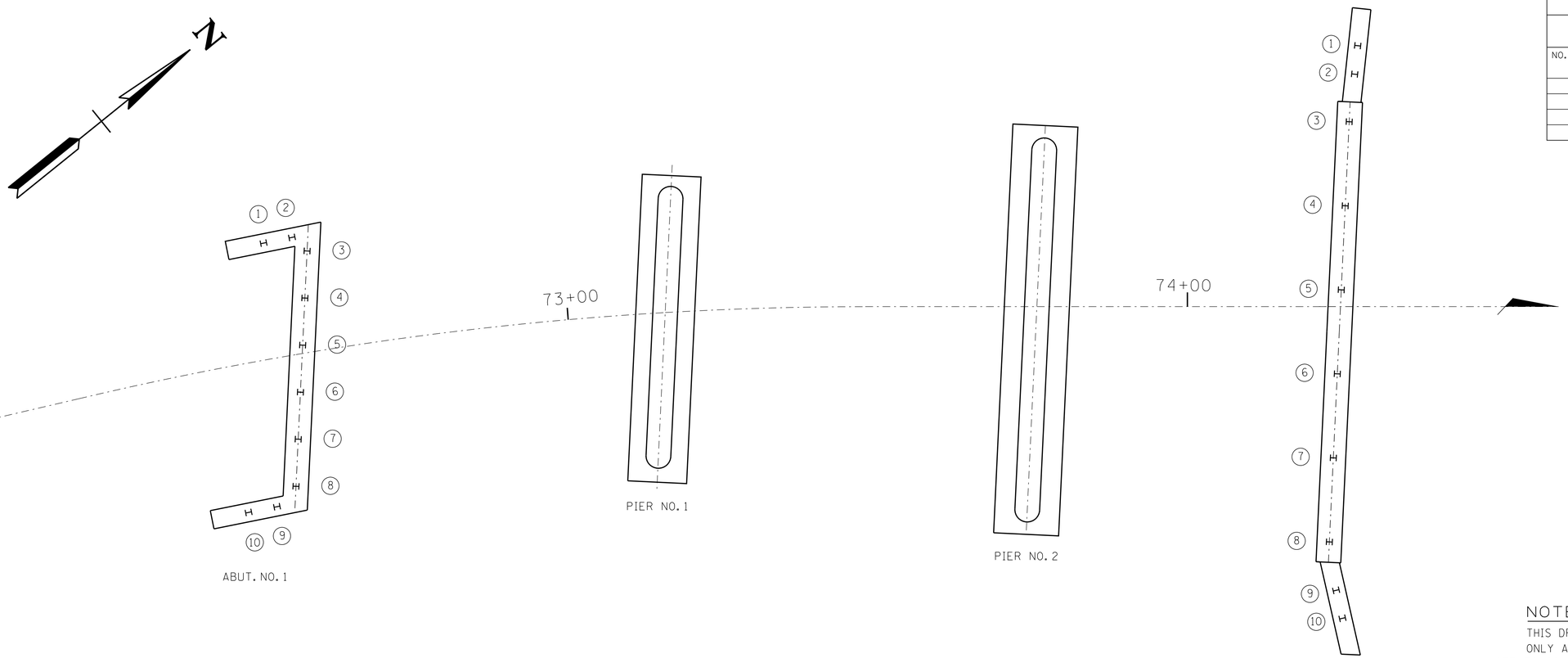
PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-53

REVISIONS

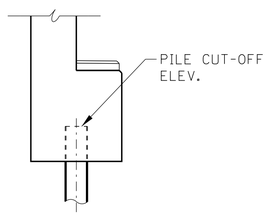
NO.	DATE	BY	BRIEF DESCRIPTION



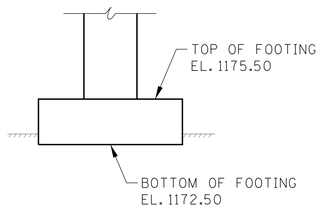
NOTE:

THIS DRAWING IS FOR FOUNDATION INFORMATION ONLY AND IS NOT TO BE USED AS A LAYOUT.

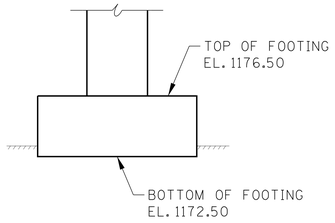
NOTE: TO CONTRACTOR AND CONSTRUCTION OFFICE
THE BLANKS ON THIS SHEET ARE TO BE FILLED IN BY THE CONSTRUCTION OFFICE AND/OR FIELD ENGINEER GIVING AS-BUILT CONDITIONS. AFTER COMPLETION IT IS TO BE SENT TO THE DIVISION OF STRUCTURES TO BECOME PART OF THE FINAL BRIDGE DOCUMENTS.



TYP. @ ABUTMENT
(N.T.S.)



PIER NO. 1
(N.T.S.)



PIER NO. 2
(N.T.S.)

TABLE OF PILE DATA

		1	2	3	4	5	6	7	8	9	10
ABUTMENT NO. 1	PILE CUT-OFF ELEVATION										
	PILE TIP ELEVATION										
	IN PLACE PILE LENGTH										
ABUTMENT NO. 2	PILE CUT-OFF ELEVATION										
	PILE TIP ELEVATION										
	IN PLACE PILE LENGTH										

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

FINAL FOUNDATION DATA

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-127

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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SUPERSTRUCTURE (EPOXY)

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
A400E	SIDEWALK	4	18	47'-0"				47'-0"
A401E	SIDEWALK	4	6	33'-0"				33'-0"
A402E	SIDEWALK	4	6	15'-0"				15'-0"
A403E	SIDEWALK	4	195	4'-8"				4'-8"
CD400E	SIDEWALK	4	6	10'-0"	10'-0"	9'-9 1/8"		20'-0"
HC570E	RAILING	5	224	1'-0"	0'-6"	0'-10"		2'-4"
HC571E	RAILING	5	224	1'-6"	0'-6"	0'-10"		2'-10"
A600E	TOP & BOT. SLAB	6	78	44'-5"				44'-5"
A601E	TOP & BOT. SLAB	6	78	44'-1"				44'-1"
A602E	TOP & BOT. SLAB	6	80	43'-7"				43'-7"
SER	TOP & BOT. SLAB	6	2	VARIES FROM 43'-7" TO 60'-1"				6225'-0"
A603E				(120 BARS)				
SER	TOP & BOT. SLAB	6	4	VARIES FROM 32'-7" TO 39'-5"				3600'-0"
A604E				(100 BARS)				
A800E	TOP & BOT. SLAB	8	112	55'-6"				55'-6"
A801E	TOP & BOT. SLAB	8	19	20'-0"				20'-0"
A802E	TOP & BOT. SLAB	8	112	35'-0"				35'-0"
A803E	TOP & BOT. SLAB	8	174	50'-6"				50'-6"
A804E	TOP & BOT. SLAB	8	174	30'-0"				30'-0"
CD800E	TOP & BOT. SLAB	8	12	10'-0"	10'-0"	9'-9 1/8"		20'-0"
CD801E	TOP & BOT. SLAB	8	19	10'-0"	10'-0"	9'-8 3/4"		20'-0"
CD802E	TOP & BOT. SLAB	8	18	10'-0"	10'-0"	9'-10 1/16"		20'-0"
CD803E	TOP & BOT. SLAB	8	18	10'-0"	10'-0"	9'-11"		20'-0"
CD804E	TOP & BOT. SLAB	8	18	10'-0"	10'-0"	9'-11 5/8"		20'-0"
CD805E	TOP & BOT. SLAB	8	10	10'-0"	10'-0"	9'-11 3/4"		20'-0"

SUPERSTRUCTURE (REGULAR)

A500	DIAPHRAGM	5	6	41'-9"				41'-9"
A501	DIAPHRAGM	5	6	58'-2"				58'-2"
LS400	DIAPHRAGM	4	65	1'-2"	1'-9"			6'-7"
LS401	DIAPHRAGM	4	36	1'-2"	1'-2"			5'-5"

ABUTMENT NO. 1 (EPOXY)

H570E	WINGWALL	5	26	8 1/2"	1'-10"			4'-4 1/2"
H571E	WINGWALL	5	26	8 1/2"	2'-4"			5'-4 1/2"
A640E	BACKWALL	6	2	44'-6 1/2"				44'-6 1/2"
A641E	BACKWALL	6	92	3'-0"				3'-0"
B640E	BACKWALL	6	8	5'-0"				5'-8"
F640E	BACKWALL	6	41	1'-1"	1'-3"	1'-1"	1'-3"	3'-11 1/4"
R640E	BACKWALL	6	41	2'-6"	2'-9 1/4"			5'-3 1/4"

ABUTMENT NO. 1 (REGULAR)

A440	RDWY BRACKET	4	1	44'-6 1/2"				44'-6 1/2"
A441	WINGWALL	4	13	3'-1 1/4"				3'-1 1/4"
A442	WINGWALL	4	13	3'-4"				3'-4"
A443	WINGWALL	4	8	13'-6"				13'-6"

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

ABUTMENT NO. 1 (REGULAR) (CONT.)

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
A540	ABUT. CAP	5	2	46'-2 1/2"				46'-2 1/2"
A541	WINGWALL CAP	5	2	14'-10 3/8"				14'-10 3/8"
A542	WINGWALL CAP	5	2	15'-2 5/16"				15'-2 5/16"
H540	BACKWALL	5	41	2'-3"	0'-6"			3'-3"
LS540	ABUT. CAP	5	74	2'-8"	2'-8"			11'-7"
A640	BACKWALL	6	6	44'-6 1/2"				44'-6 1/2"
A641	BACKWALL	6	8	3'-8"				3'-8"
A642	WINGWALL	6	13	3'-1 1/4"				3'-1 1/4"
A643	WINGWALL	6	13	3'-4"				3'-4"
A644	WINGWALL	6	8	13'-6"				13'-6"
H640	WINGWALL	6	68	1'-2 1/2"	3'-8"			8'-6 1/2"
A740	ABUT. CAP	7	10	46'-2 1/2"				46'-2 1/2"
A741	WINGWALL CAP	7	10	14'-10 3/8"				14'-10 3/8"
A742	WINGWALL CAP	7	10	15'-2 5/16"				15'-2 5/16"
VA840	ABUT. & WINGWALL CAP	8	20	2'-6"				5'-0"

ABUTMENT NO. 2 (EPOXY)

H570E	WINGWALL	5	30	8 1/2"	1'-10"			4'-4 1/2"
H571E	WINGWALL	5	30	8 1/2"	2'-4"			5'-4 1/2"
A640E	BACKWALL	6	4	38'-5"				38'-5"
A641E	BACKWALL	6	150	3'-0 1/2"				3'-0 1/2"
R640E	BACKWALL	6	41	2'-6"	2'-9 1/4"			5'-3 1/4"
F640E	BACKWALL	6	75	1'-1"	1'-3"	1'-1"	1'-3"	3'-11 1/4"
CD640E	WINGWALL	6	2	3'-10"	3'-10"	0'-2 3/4"		7'-8"
CD641E	WINGWALL	6	2	3'-10"	3'-10"	1'-0 1/4"		7'-8"

ABUTMENT NO. 2 (REGULAR)

A440	RDWY BRACKET	4	2	37'-9 1/2"				37'-9 1/2"
A441	WINGWALL	4	15	3'-4"				3'-4"
A442	WINGWALL	4	15	3'-2 1/2"				3'-2 1/2"
A443	WINGWALL	4	4	14'-11"				14'-11"
A444	WINGWALL	4	4	14'-10 3/4"				14'-10 3/4"
A540	ABUT. CAP	5	4	37'-11 1/2"				37'-11 1/2"
A541	WINGWALL CAP	5	2	14'-11"				14'-11"
A542	WINGWALL CAP	5	2	14'-10 3/4"				14'-10 3/4"
CD540	WINGWALL	5	1	3'-3"	3'-3"	0'-2 1/4"		6'-6"
CD541	WINGWALL	5	1	3'-3"	3'-3"	0'-10 1/2"		6'-6"
H540	BACKWALL	5	75	2'-3"	0'-6"			3'-3"
LS540	ABUT. CAP	5	114	2'-8"	2'-8"			11'-7"
A640	BACKWALL	6	12	38'-2"				38'-2"
A641	WINGWALL	6	15	3'-2 3/4"				3'-2 3/4"
A642	WINGWALL	6	15	3'-4"				3'-4"
A643	WINGWALL	6	4	14'-11"				14'-11"
A644	WINGWALL	6	4	14'-10 3/4"				14'-10 3/4"
CD640	WINGWALL	6	6	3'-10"	3'-10"	0'-2 3/4"		7'-8"
CD641	WINGWALL	6	6	3'-10"	3'-10"	1'-0 1/4"		7'-8"
H641	WINGWALL	6	105	1'-2 1/2""	3'-6"			8'-2 1/2"

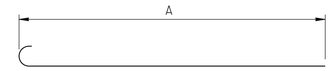
REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTES:

1. DIMENSIONS SHOWN ON THIS SHEET ARE OUTSIDE OF BARS. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY, EXCEPT AS NOTED.
2. BAR NUMBERS ARE REPEATED ON BILL OF STEEL FOR EACH ABUTMENT. THEREFORE IT WILL BE NECESSARY FOR THE SUPPLIER TO SHIP THE BARS TO THE JOB SITE WITH THE SUBSTRUCTURE DESIGNATION INCLUDED AS PART OF THE LABEL.

BARS A



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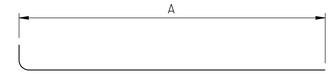

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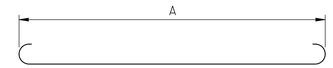

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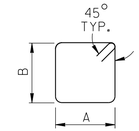
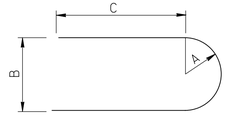


BARS LS



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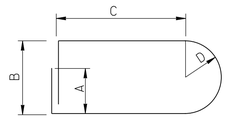

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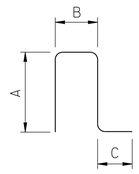

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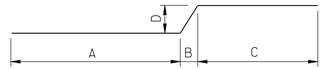

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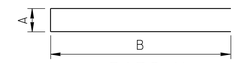

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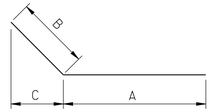
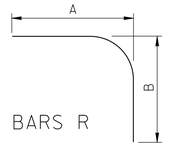


BARS CD



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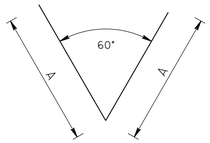


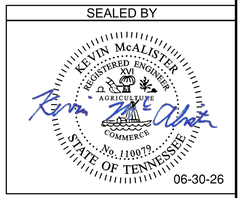
BARS VA

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-54

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

BILL OF STEEL (1 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-128

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ABUTMENT NO. 2 (REGULAR) (CONT.)

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS A	B	C	D	LENGTH
A740	ABUT. CAP	7	20	38′-4½"				38′-4½"
A741	WINGWALL CAP	7	10	14′-11"				14′-11"
A742	WINGWALL CAP	7	10	14′-10¾"				14′-10¾"
BNM740	WINGWALL CAP	7	4	SEE BAR BNM DIAGRAM				7′-5"
BNM741	WINGWALL CAP	7	4	SEE BAR BNM DIAGRAM				7′-5"
CD740	WINGWALL CAP	7	4	4′-5"	4′-5"	0′-3⅛"		8′-10"
CD741	WINGWALL CAP	7	4	4′-5"	4′-5"	1′-2⅛"		8′-10"
VA840	ABUT. & WINGWALL CAP	8	20	2′-6"				5′-0"

PIER NO. 1 (REGULAR)

A450	CAP	4	6	38′-8"				38′-8"
A451	CAP	4	10	1′-6"				1′-6"
A452	WALL	4	2	41′-3"				41′-3"
XA450	CAP	4	6	4′-7"	1′-9"			14′-8"
X450	WALL	4	18	0′-8"	3′-0"	4′-11½"	1′-6"	18′-3½"
LS450	WALL	4	54	9′-1"	3′-0"			24′-11"
LS451	CAP	4	72	3′-8"	1′-6"			11′-1"
D950	FOOTING	8	132	9′-0"				11′-6"
D951	FOOTING	8	20	49′-0"				51′-6"
B950	CAP/WALL	9	154	10′-6"				11′-9"
R950	WALL/FOOTING	9	154	8′-10"	2′-3"			11′-1"

PIER NO. 2 (REGULAR)

A451	CAP	4	10	1′-6"				1′-6"
A453	CAP	4	6	56′-10"				56′-10"
A454	WALL	4	2	57′-9"				57′-9"
XA450	CAP	4	6	4′-7"	1′-9"			14′-8"
X451	WALL	4	16	0′-8"	3′-0"	7′-4"	1′-6"	23′-0½"
LS450	WALL	4	64	9′-1"	3′-0"			24′-11"
LS451	CAP	4	100	3′-8"	1′-6"			11′-1"
B951	CAP/WALL	9	210	10′-2"				11′-5"
B952	FOOTING	8	44	35′-9"				37′-0"
D852	FOOTING	8	262	10′-0"				12′-6"
R950	WALL/FOOTING	9	210	9′-10"	2′-3"			12′-1"

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTES:

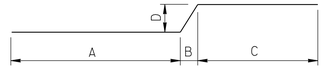
1. DIMENSIONS SHOWN ON THIS SHEET ARE OUTSIDE TO OUTSIDE OF BARS. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY, EXCEPT AS NOTED.
2. BAR NUMBERS ARE REPEATED ON BILL OF STEEL FOR EACH ABUTMENT. THEREFORE IT WILL BE NECESSARY FOR THE SUPPLIER TO SHIP THE BARS TO THE JOB SITE WITH THE SUBSTRUCTURE DESIGNATION INCLUDED AS PART OF THE LABEL.

PROJECT NO.	YEAR	SHEET NO.
82956-3594-04	2026	B-55

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

BARS A



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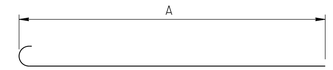

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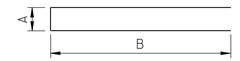

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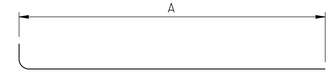

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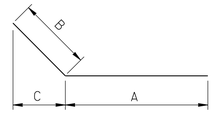

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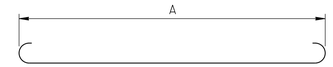
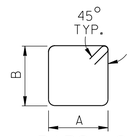


BARS D

BARS R



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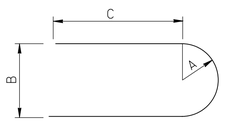
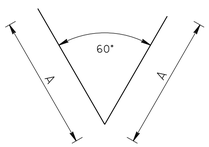


BARS XA



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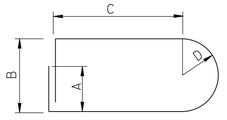

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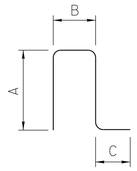

BARS HC

SEALED BY

06-30-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2

BILL OF STEEL (2 OF 2)

MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-129

PIN NO.: 131034.00
DESIGN BY: H. WU DATE: 09/2025
DRAWN BY: H. WU DATE: 09/2025
SUPERVISED BY: K. MCALISTER DATE: 10/2025
CHECKED BY: I. GLOUDOUA DATE: 10/2025

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YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	GEOTECH-SIGN1

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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S&ME, INC.
5801 MIDDLEBROOK PIKE, SUITE A
KNOXVILLE, TN 37921

KRISTEN H. HILL, P.E., NO. 131906

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
GEOTECHNICAL INDEX	G-1
GEOTECHNICAL NOTES, DEFINITIONS & QUANTITES	G-2
GEOTECHNICAL BORING & TEST PIT LAYOUT	G-3
GEOTECHNICAL TEST PIT PROFILE	G-5
GEOTECHNICAL BORING LAYOUT	G-6, G-8, G-11, G-14, G-16, G-18, G-20
GEOTECHNICAL BORING PROFILE	G-4, G-7, G-9, G-10, G-12, G-13, G-15, G-17, G-19, G-21, G-22
GEOTECHNICAL TYPICAL SECTIONS	G-23, G-24

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6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

SIGNATURE SHEET

5/2/2025 6:50:02 AM

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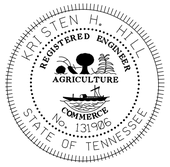

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Kristen Hill

Kristen Hill
2026.07.06 13:51:53 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

S&ME, INC.
5801 MIDDLEBROOK PIKE, SUITE A
KNOXVILLE, TN 37921

KRISTEN H. HILL, P.E., NO. 131906

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN2
GEOTECHNICAL INDEX	G-1
GEOTECHNICAL NOTES, DEFINITIONS & QUANTITES	G-2

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	GEOTECH-SIGN2

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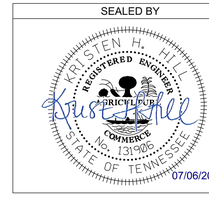

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
	2026	82956-3594-04	G-1

REV. 07-06-2026: UPDATED GEOTECHNICAL INDEX SHEET

GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
SIGNATURE SHEET	GEOTECH-SIGN2
GEOTECHNICAL INDEX	G-1
GEOTECHNICAL NOTES, DEFINITIONS & QUANTITES	G-2
GEOTECHNICAL BORING & TEST PIT LAYOUT	G-3
GEOTECHNICAL TEST PIT PROFILE	G-5
GEOTECHNICAL BORING LAYOUT	G-6, G-8, G-11, G-14, G-16, G-18, G-20
GEOTECHNICAL BORING PROFILE	G-4, G-7, G-9, G-10 G-12, G-13, G-15, G-17, G-19, G-21, G-22
GEOTECHNICAL TYPICAL SECTIONS	G-23, G-24

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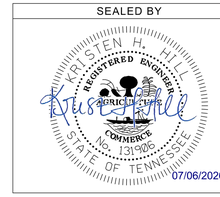

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL INDEX

GES No. 8203324 / PIN 131034.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-2

REV. 07-06-2026: UPDATED GEOTECHNICAL NOTES, DEFINITIONS & QUANITIES SHEET

NOTES

SITE PREPARATION

1. PORTIONS OF PAVEMENTS, UTILITIES, STRUCTURES, AND MISCELLANEOUS IMPROVEMENTS ALONG THE PROJECT ALIGNMENT WILL REQUIRE DEMOLITION AND/OR RELOCATION. ABANDONED UTILITY LINES SHALL BE REMOVED AND REPLACED WITH COMPACTED FILL.

2. IN AREAS LESS THAN 5 FEET BELOW SUBGRADE WHERE SOIL FILL WILL BE PLACED, PROOF ROLLING OF THE EXPOSED SURFACE OF THE SUBGRADE SOILS SHALL BE PERFORMED AFTER COMPLETION OF STRIPPING IN AREAS TO RECEIVE FILL AND ONCE GRADE IS ACHIEVED IN CUT AREAS. PROOF ROLLING SHALL BE PERFORMED USING A FULLY LOADED DUMP TRUCK OR OTHER HEAVY RUBBER TIRED EQUIPMENT APPROVED BY THE GEOTECHNICAL ENGINEER. THE PROOF ROLLING OPERATION SHALL TRAFFIC THE CONSTRUCTION AREA WITH PARALLEL PASSES OF THE VEHICLE STARTING AT ONE SIDE OF THE AREA AND CONTINUING TO THE OTHER. EACH PASS SHALL OVERLAP THE PRECEDING PASS TO ENSURE COMPLETE COVERAGE.

3. STABILIZATION IN THE FORM OF PLACING A 4-FOOT LAYER OF GRADED SOLID ROCK (GSR) ON SOFT ALLUVIAL SOILS WITH SHALLOW GROUNDWATER IS NEEDED IN AREAS OF THE PROJECT. THE GSR SHOULD BE OVERLAIN WITH TYPE IV GEOTEXTILE FABRIC. SEE THE SOILS - TYPICAL SECTION AND BORING LAYOUT SHEETS FOR ANTICIPATED GSR STABILIZATION AREAS AND TYPE IV GEOTEXTILE FABRIC PLACEMENT.

4. FOR THE LARGE FILL PLACEMENT ALONG MEADOW PARK LANE FROM STATION 27+50 TO STATION 35+75.50 SETTLEMENTS ALONG THE EMBANKMENT SHOULD BE MONITORED DURING THE WAITING PERIOD. SETTLEMENT POINTS/MONUMENTS SHOULD BE ESTABLISHED ON THE EMBANKMENT AND SETTLEMENT POINT MEASUREMENTS COLLECTED WEEKLY BY A LICENSED SURVEYOR. THE BENCHMARK UPON WHICH THE SETTLEMENT MEASUREMENTS ARE BASED SHOULD BE ESTABLISHED OUTSIDE THE INFLUENCE OF THE NEW EMBANKMENT FILL. AFTER THE INITIAL 31-DAY WAITING PERIOD, IF THE SETTLEMENT RATE IS LESS THAN OR EQUAL TO 0.1 INCH PER 14 DAY, THE EMBANKMENT MAY BE FINISH GRADED. IF THE SETTLEMENT RATE IS GREATER THAN 0.1 INCH PER 14 DAYS AFTER THE 31-DAY WAITING PERIOD, CONTINUE TO THE WAITING PERIOD AND MONITOR SETTLEMENTS UNTIL THE SETTLEMENT IS LESS THAN 0.1 INCH PER 14 DAYS BEFORE FINISH GRADING THE EMBANKMENT.

5. FOR THE LARGE FILL PLACEMENT ALONG FIRE TRAINING CENTER ROAD FROM STATION 83+50 TO STATION 84+70 SETTLEMENTS ALONG THE EMBANKMENT SHOULD BE MONITORED DURING THE WAITING PERIOD. SETTLEMENT POINTS/MONUMENTS SHOULD BE ESTABLISHED ON THE EMBANKMENT AND SETTLEMENT POINT MEASUREMENTS COLLECTED WEEKLY BY A LICENSED SURVEYOR. THE BENCHMARK UPON WHICH THE SETTLEMENT MEASUREMENTS ARE BASED SHOULD BE ESTABLISHED OUTSIDE THE INFLUENCE OF THE NEW EMBANKMENT FILL. AFTER THE INITIAL 51-DAY WAITING PERIOD, IF THE SETTLEMENT RATE IS LESS THAN OR EQUAL TO 0.1 INCH PER 14 DAY, THE EMBANKMENT MAY BE FINISH GRADED. IF THE SETTLEMENT RATE IS GREATER THAN 0.1 INCH PER 14 DAYS AFTER THE 51-DAY WAITING PERIOD, CONTINUE TO THE WAITING PERIOD AND MONITOR SETTLEMENTS UNTIL THE SETTLEMENT IS LESS THAN 0.1 INCH PER 14 DAYS BEFORE FINISH GRADING THE EMBANKMENT.

COMPACTED FILL

6. THE LABORATORY TEST DATA INDICATES SOILS ALONG THE PROJECT ALIGNMENT CONSIST PREDOMINANTLY OF LOW TO MODERATELY PLASTICITY CLAYEY SOILS (AASHTO TYPE A-4, A-6, AND USCS TYPE CL SOIL). ROADWAY SUBGRADES SHALL BE PROTECTED FROM EXCESSIVE DRYING OR WETTING TO THE EXTENT FEASIBLE. THE BASE STONE SHALL BE PLACED ON ROADWAY SUBGRADES AS SOON AS PRACTICAL TO HELP PROTECT SUBGRADES, AND POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT GRADING OPERATIONS TO HELP PREVENT EXCESSIVE DRYING AND WETTING OF SUBGRADES. THE SURFACE SHALL BE ROLLED SMOOTH TO ENHANCE DRAINAGE IF PRECIPITATION IS EXPECTED. THE GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR TREATMENT IF THE SOILS BECOME EXCESSIVELY WET, DRY OR FROZEN. THE TOP 12 INCHES OF THE ROADWAY SUBGRADE IN BOTH CUT AND FILL AREAS WHERE COMPACTED SOIL FILL WILL BE PLACED SHOULD BE COMPACTED TO 100 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.

GROUNDWATER

7. IF GROUNDWATER OR SEEPS ARE ENCOUNTERED IN CUT AREAS DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO OBSERVE THE AREA AND PROVIDE RECOMMENDATIONS FOR CORRECTIVE MEASURES AT THE TIME OF CONSTRUCTION.

8. DURING PERIODS OF HEAVY RAIN, PERCHED GROUNDWATER CONDITIONS MAY OCCUR AT THE SITE. IF PERCHED OR SHALLOW GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL PROVIDE ADEQUATE DEWATERING MEASURES TO MAINTAIN THE GROUNDWATER LEVEL BELOW THE BOTTOM OF EXCAVATIONS EXCEPT WHEN THE EXCAVATION IS IN ROCK. PUMPING FROM SUMPS CONSTRUCTED OUTSIDE THE EXCAVATION SHOULD BE EFFECTIVE IN DEWATERING THE SOILS ENCOUNTERED IN THE TEST BORINGS. WATER FROM THE PUMPS SHALL BE DISCHARGED BEYOND THE CONSTRUCTION BOUNDARIES TO LIMIT ITS EFFECT ON CONSTRUCTION ACTIVITIES.

SLOPES

9. CONSTRUCTION MAY DISCLOSE THE PRESENCE OF GROUNDWATER SEEPS OR SPRINGS, OR DOWN-SLOPE DIPPING OF THE SOIL PROFILE. THESE CONDITIONS, IF PRESENT, WILL INFLUENCE SLOPE STABILITY. IF SEEPAGE OR OTHER UNFAVORABLE GEOLOGIC CONDITIONS ARE ENCOUNTERED IN CUT SLOPES AT THE TIME OF CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO OBSERVE THE SLOPE AND PROVIDE RECOMMENDATIONS FOR CORRECTIVE MEASURES.

10. VEGETATION SHALL BE ESTABLISHED AS QUICKLY AS POSSIBLE ON SLOPES TO PREVENT EROSION. EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT GUIDELINES.

11. SHOULD SHALLOW SLIDES OR SLUMPS OCCUR, THEY SHALL BE REPAIRED PROMPTLY TO PREVENT FURTHER SLOPE EROSION. REPAIR CAN TYPICALLY BE ACCOMPLISHED BY REMOVING THE SLIDE MATERIAL, EXCAVATING A BENCH WITHIN THE FAILURE ZONE, AND BACKFILLING THE FAILURE ZONE WITH CLASS A-3 MACHINED RIP-RAP (TDOT ITEM NO. 709-05.05).

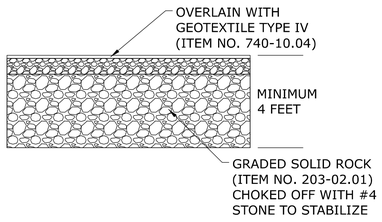
DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS

A. SOIL MATERIAL
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS. THIS MATERIAL WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS SHOWN IN SECTION 2-702.00 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

B. SOLID ROCK MATERIAL
SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS. THIS MATERIAL WOULD HAVE A SIGNIFICANT SWELL FACTOR AS GIVEN IN SWELL FACTORS SHOWN IN SECTION 2-702.00 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

C. SOFT ROCK OR DEGRADABLE ROCK
THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS. THIS MATERIAL WOULD HAVE A RELATIVELY SMALL SHRINK OR SWELL FACTOR DEPENDING ON THE TYPE MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

D. TRANSITIONAL MATERIALS
THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.



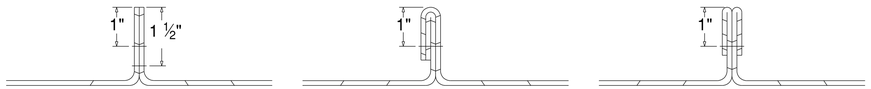
STABILIZATION ROCK PAD DETAIL
NOT TO SCALE

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)(2)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TONS	36,216
(1)(2)	303-10.07	MINERAL AGGREGATE (SIZE 4)	TONS	4,551
(1)(2)	740-10.04	GEOTEXTILE (TYPE IV)	S.Y.	15,541

(1) THESE QUANTITIES ARE TO BE USED AT THE DISCRETION OF THE ENGINEER TO STABILIZE SOFT SUBGRADE AREAS AS DEPICTED ON THE SOILS - TYPICAL SECTIONS AND BORING LAYOUT SHEETS.

(2) FOR USE AS DRAINAGE AND STABILIZATION LAYER AS DEPICTED ON THE SOILS - TYPICAL SECTIONS AND BORING LAYOUT SHEETS.



FLAT OR PRAYER SEAM
TYPE SSd-1

J SEAM
TYPE SSn-1

BUTTERFLY SEAM
TYPE SSa-1

TYPES OF GEOTEXTILE SEAMS
NOT TO SCALE

* STATIONING NOTE
GEOTECHNICAL SHEET G-20 RIVERPORT ROAD STATION 18+40 IS EQUIVALANT TO ROADWAY PLANS RIVERPORT ROAD STATION 108+40.

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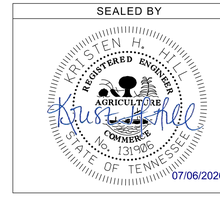

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL NOTES, DEFINITIONS & QUANTITIES

GES No. 8203324 / PIN 131034.00

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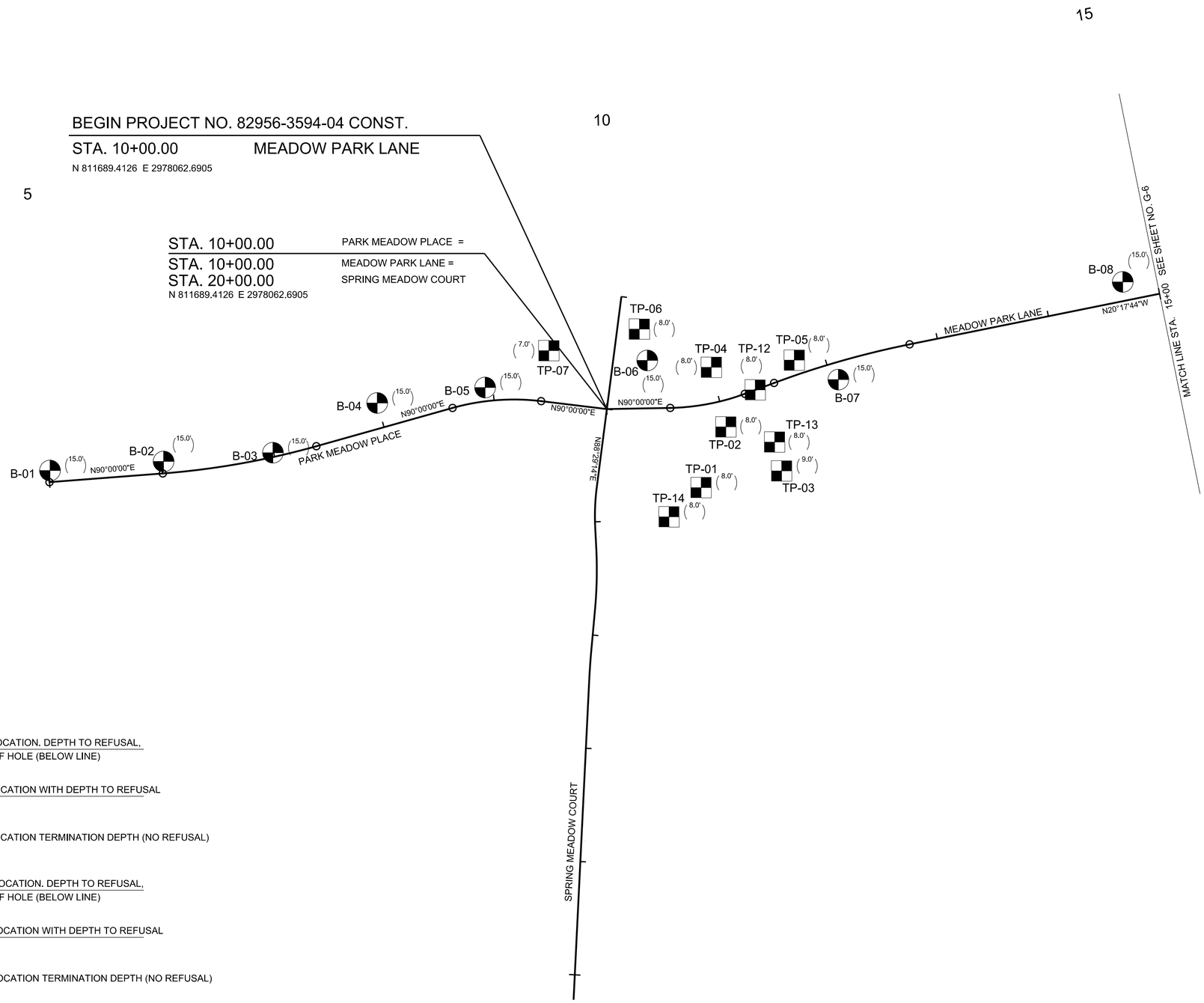
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-3



LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 8203324 / PIN 131034.00

SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE COMMERCE — No. 131906 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHTICAL BORING & TEST PIT LAYOUT

STA. 5+00 TO STA. 15+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-4

BEGIN PROJECT NO. 82956-3594-04 CONST.
STA. 10+00.00 MEADOW PARK LANE
N 811213.6427 E 2978202.0655

STA. 20+00.00 SPRING MEADOW COURT =
STA. 10+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE
N 811689.4126 E 2978062.6905

FINISHED GRADE

EXIST. GROUND

B-01
5+01.25
10.19 L
1213.75
17
9
28
8
19
BT-15'

B-02
6+01.79
10.45 L
1214.21
32
7
18
13
32
BT-15'

B-03
6+99.37
3.77 L
1213.69
28
6
8
12
22
BT-15'

B-04
7+99.97
22.17 L
1212.79
5
14
6
10
5
BT-15'

B-05
8+93.57
12.05 L
1214.88
4
7
12
13
13
BT-15'

B-06
10+36.45
42.23 L
1217.25
7
5
3
7
50+
BT-15'

B-07
12+05.98
15.09 R
1226.54
28
27
26
12
22
BT-15'

B-08
14+70.28
16.69 L
1227.96
16
14
12
12
19
BT-15'

GES No. 8203324 PIN 131034.00

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00

1270 1265 1260 1255 1250 1245 1240 1235 1230 1225 1220 1215 1210 1205 1200 1195 1190 1185 1180 1175 1170

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 ← STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 ← SPT N-VALUE
SPT SYMBOL
11 ← UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'
BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 131906
STATE OF TENNESSEE
6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 5+00.00 TO STA. 15+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-5

STA. 20+00.00 SPRING MEADOW COURT =
STA. 10+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE
N 811689.4126 E 2978062.6905

BEGIN PROJECT NO. 82956-3594-04
STA. 10+00.00 MEADOW PARK LANE
N 811213.6427 E 2978202.0655

FINISHED GRADE
EXIST. GROUND
EXIST. GROUND
0.50%

TP-07 9+43.00 45 L 1220.70 — BT-7' — OFFSET FOR CLARITY
TP-06 10+30.00 70 L 1220.84 — BT-8' — OFFSET FOR CLARITY
TP-01 10+75.00 72 R 1220.70 — BT-8'
TP-14 10+53.00 96 R 1220.73 — BT-8' — OFFSET 175' DOWN FOR CLARITY
TP-04 11+00.00 31 L 1220.74 — BT-8' — OFFSET 65' DOWN FOR CLARITY
TP-02 11+00.00 23 R 1220.74 — BT-8' — OFFSET 100' UP FOR CLARITY
OFFSET FOR CLARITY
TP-03 11+30.00 75 R 1220.90 — BT-9'
TP-12 11+33.00 CL 1220.92 — BT-8' — OFFSET FOR CLARITY
TP-13 11+33.00 49 R 1220.92 — BT-8' — OFFSET FOR CLARITY
TP-05 11+74.00 13 L 1221.36 — BT-8'

GES No. 8203324 PIN 131034.00

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 → STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 → BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING
4 → SPT N-VALUE
11 → SPT SYMBOL / UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC
5 66/100 → RQD/REC
TERMINATION → CT-9.8'
BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 131905
STATE OF TENNESSEE
6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

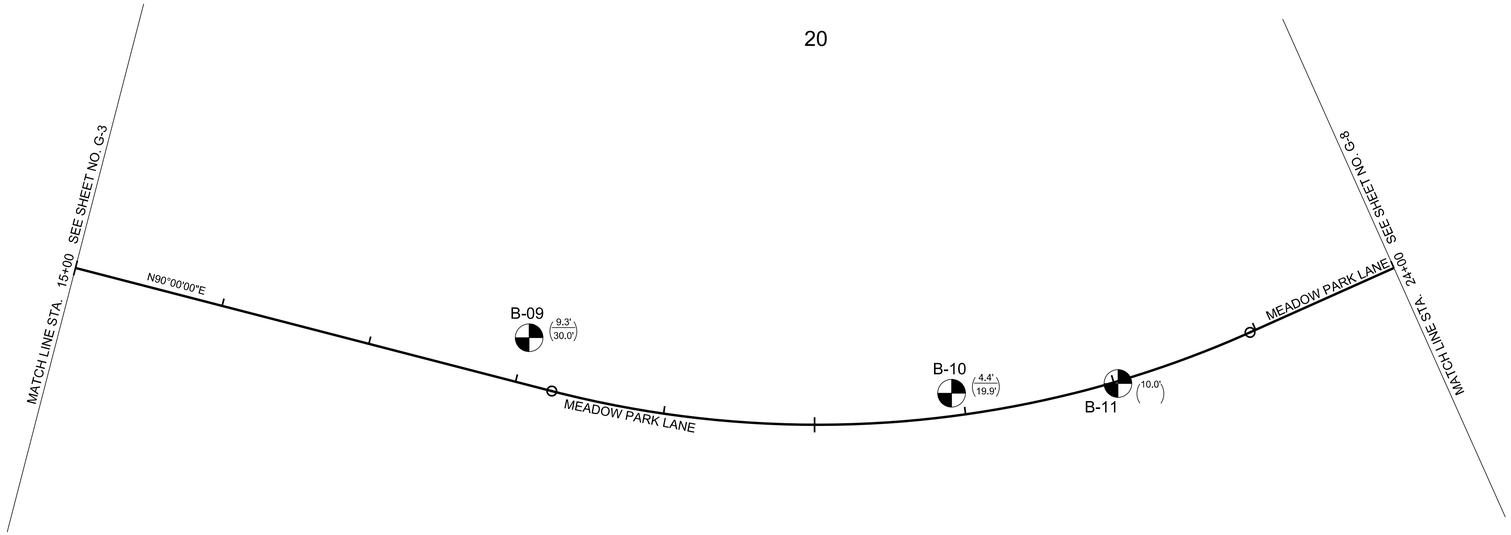
GEOTECHNICAL
TEST PIT
PROFILE
STA. 5+00.00 TO STA. 15+00.00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:03 PM
T:\KNOXVILLE-1430\PROJECTS\2023\23430470A_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-PROPOSED PROFILES-GEOTECH.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-6

15

20



LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 8203324 / PIN 131034.00

SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE — OTMER-CE — No. 131906 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

6/29/2026 3:43:05 PM
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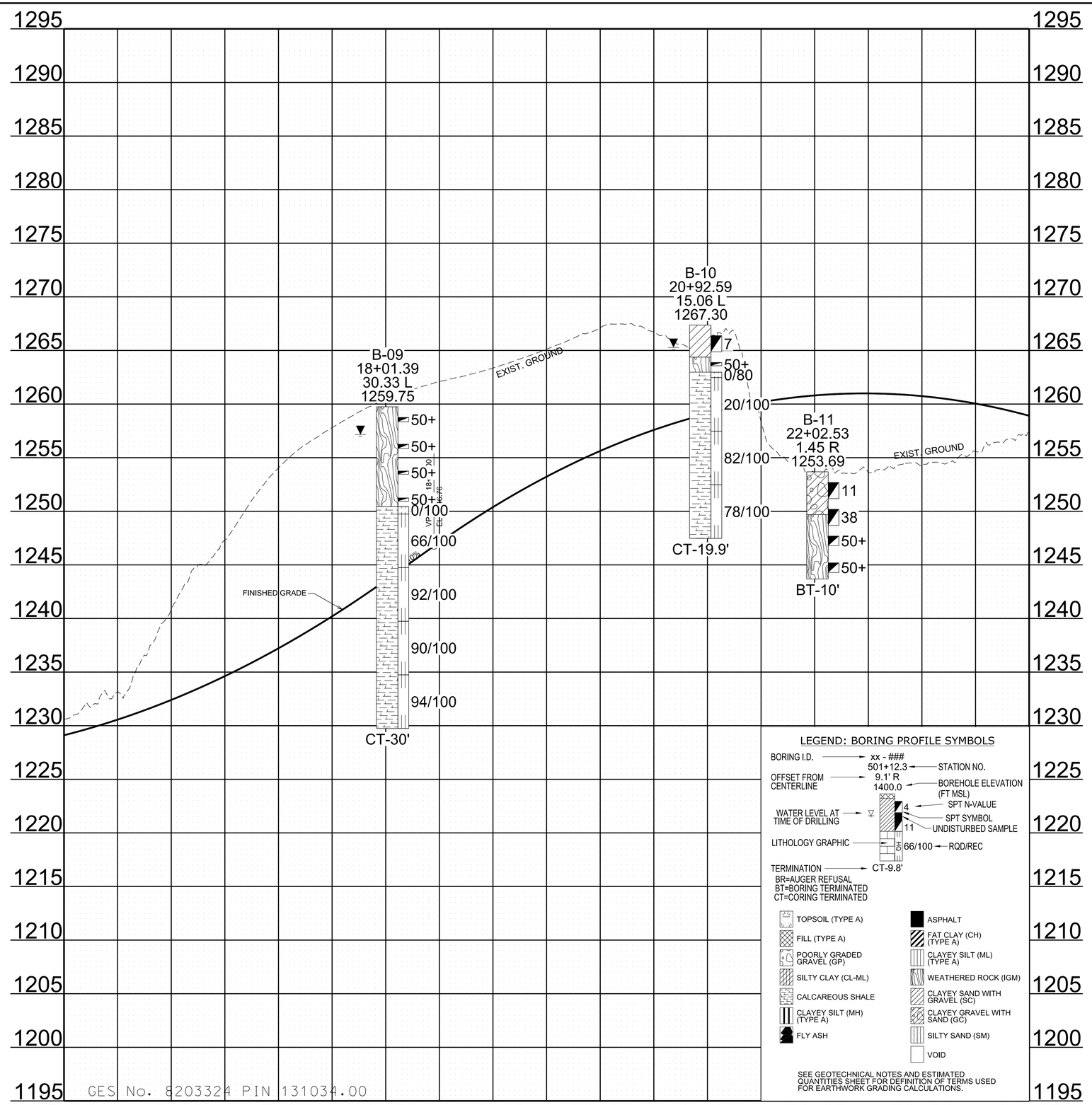
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-7



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 ← STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 ← SPT N-VALUE
SPT SYMBOL
11 ← UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

GES No. 8203324 PIN 131034.00

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131906
STATE OF TENNESSEE

6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE

STA. 15+00.00 TO STA. 24+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:08 PM
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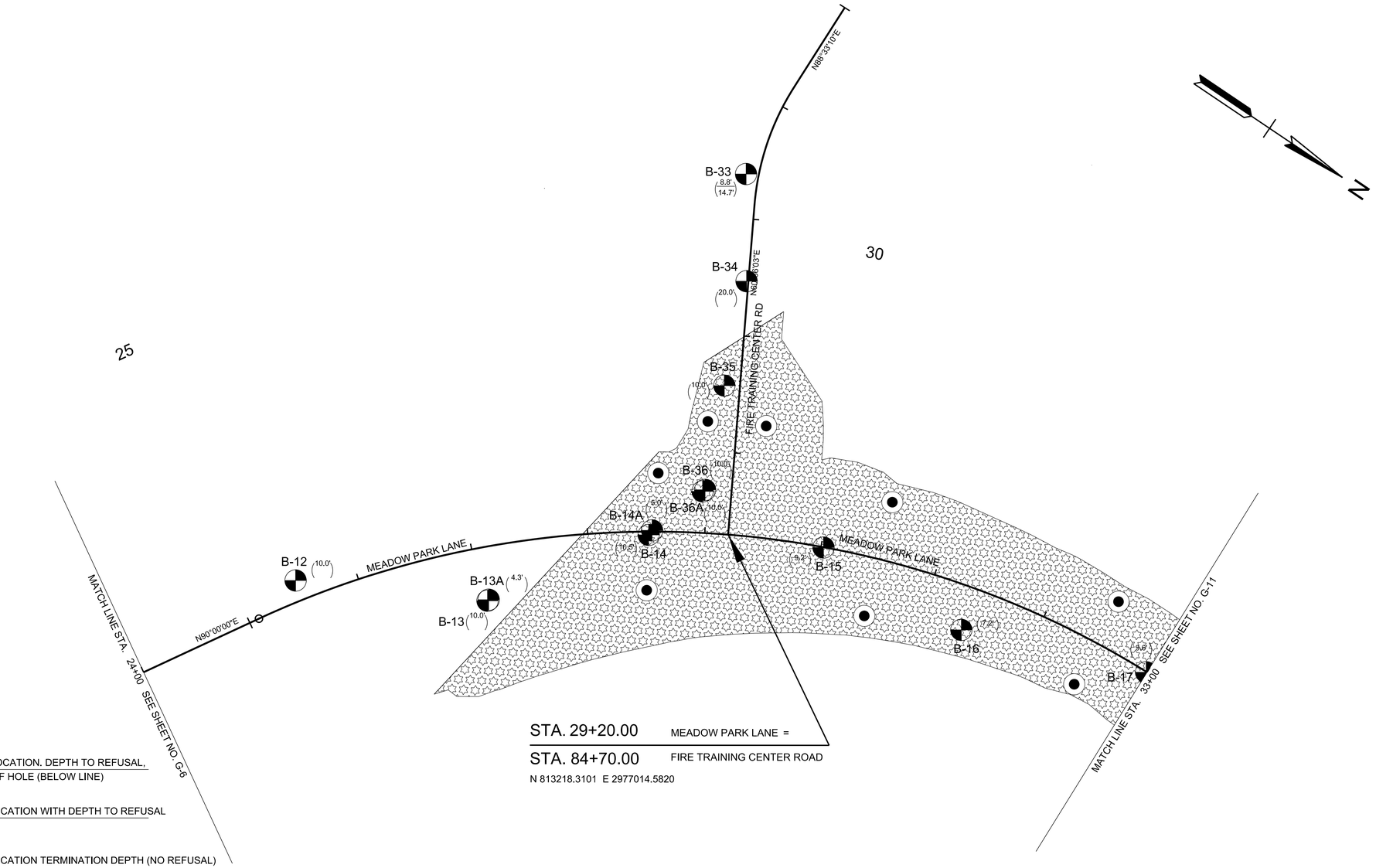
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-8



STA. 29+20.00 MEADOW PARK LANE =

STA. 84+70.00 FIRE TRAINING CENTER ROAD

N 813218.3101 E 2977014.5820

LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

- RECOMMENDED SETTLEMENT MONUMENT (SEE SHEET G-02)

- GRADED SOLID ROCK CHOKED OFF WITH #4 STONE

GES No. 8203324 / PIN 131034.00

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KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 131906 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 24+00 TO STA. 33+00
SCALE: 1" = 50'

6/29/2026 3:43:10 PM
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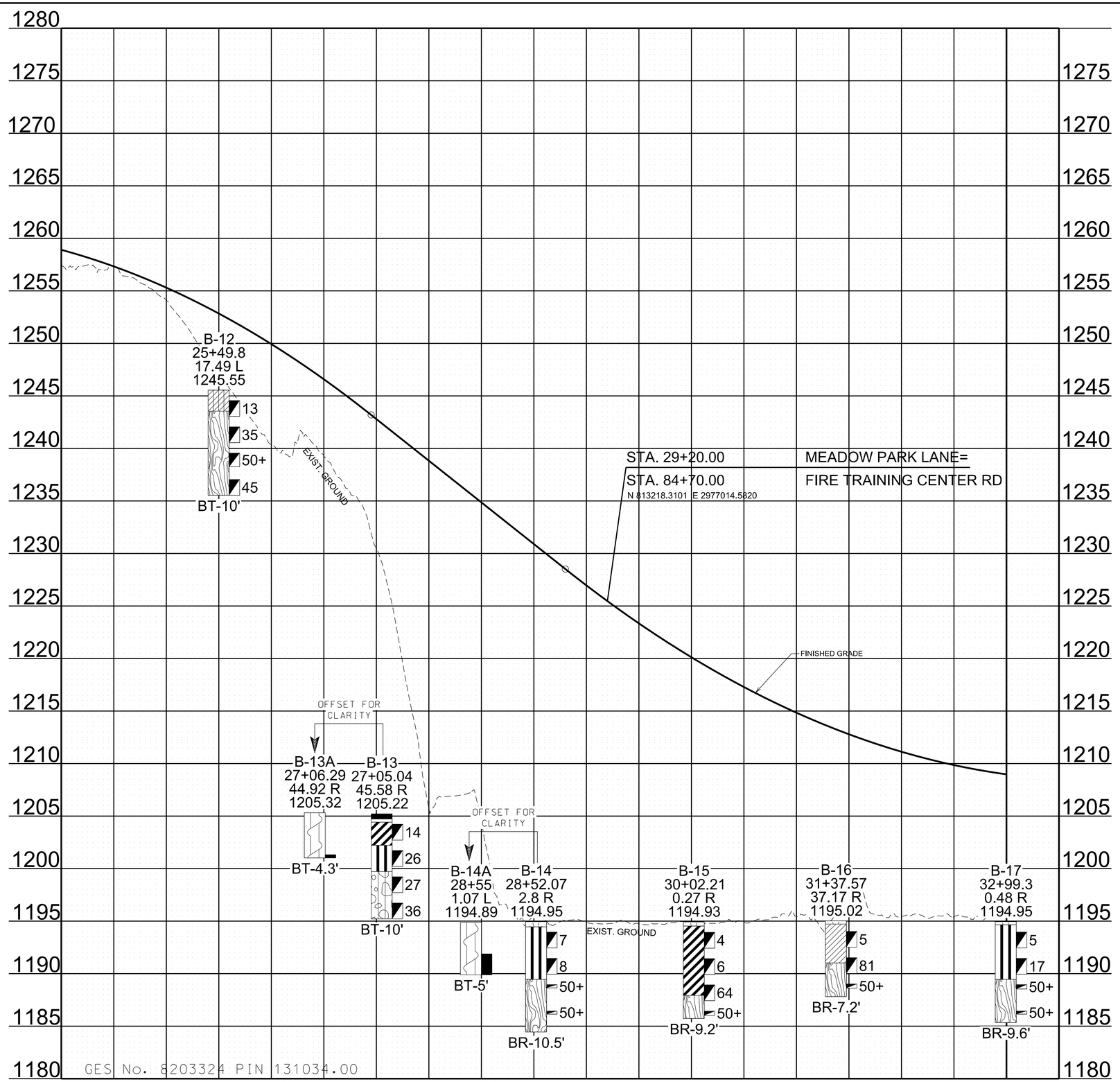
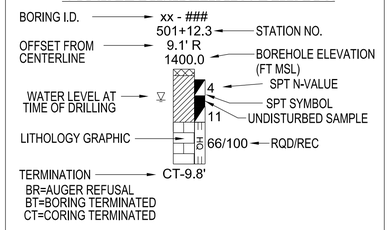
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-9



LEGEND: BORING PROFILE SYMBOLS

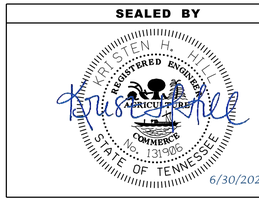


BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- AUGER PROBE
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE

STA. 24+00.00 TO STA. 33+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:12 PM
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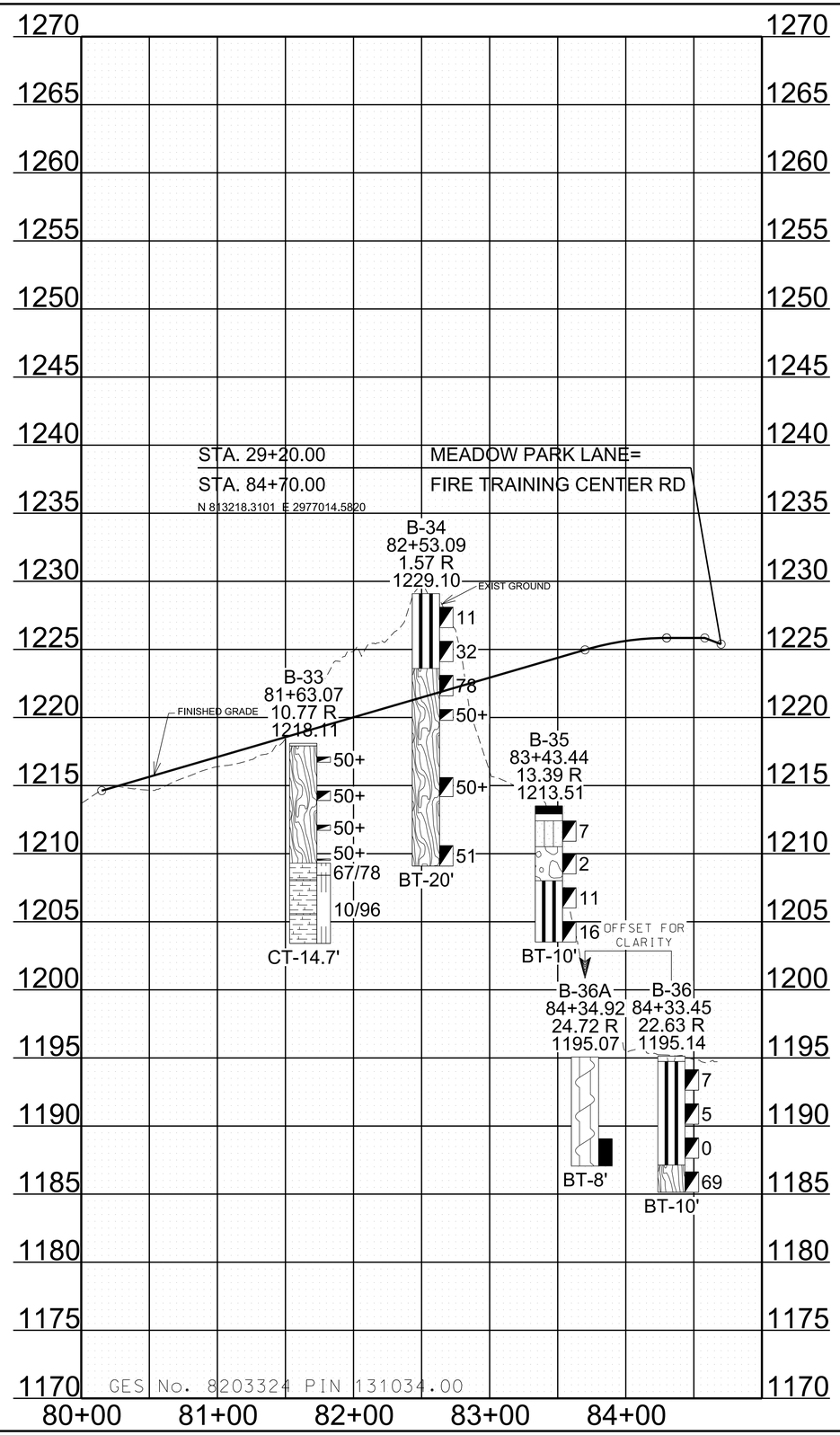
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-10



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 — STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 — BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING
4 — SPT N-VALUE
SPT SYMBOL
11 — UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC
66/100 — RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- ASPHALT
- FILL (TYPE A)
- FAT CLAY (CH) (TYPE A)
- POORLY GRADED GRAVEL (GP)
- CLAYEY SILT (ML) (TYPE A)
- SILTY CLAY (CL-ML)
- WEATHERED ROCK (IGM)
- CALCAREOUS SHALE
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY SILT (MH) (TYPE A)
- CLAYEY GRAVEL WITH SAND (GC)
- AUGER PROBE
- SILTY SAND (SM)

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

FIRE TRAINING CENTER ROAD

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131904
STATE OF TENNESSEE
6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE

STA. 80+15.00 TO STA. 84+70.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:14 PM
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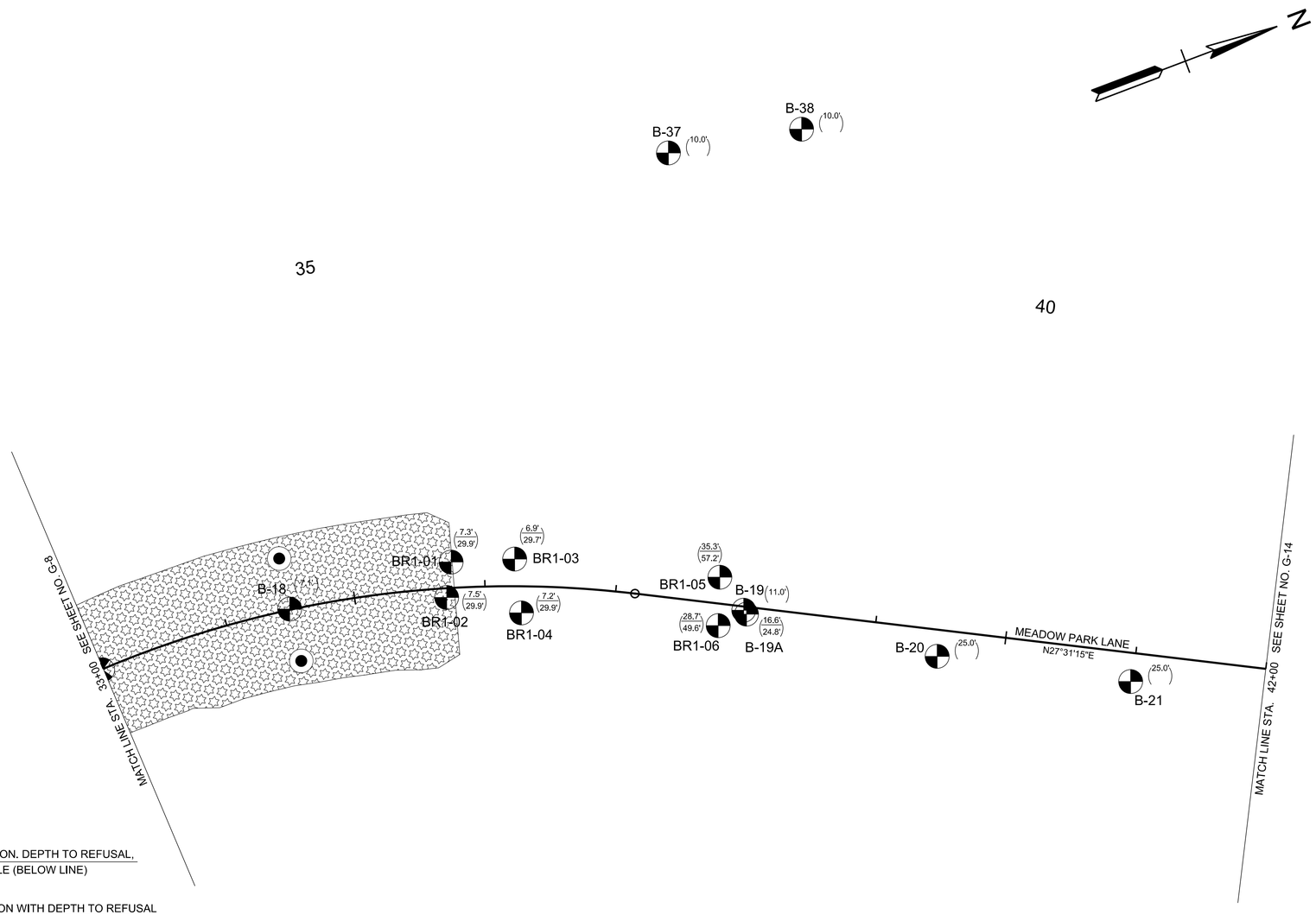
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-11



LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

- RECOMMENDED SETTLEMENT MONUMENT (SEE SHEET G-02)

- GRADED SOLID ROCK CHOKED OFF WITH #4 STONE

GES No. 8203324 / PIN 131034.00

SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 131906 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

6/29/2026 3:43:16 PM
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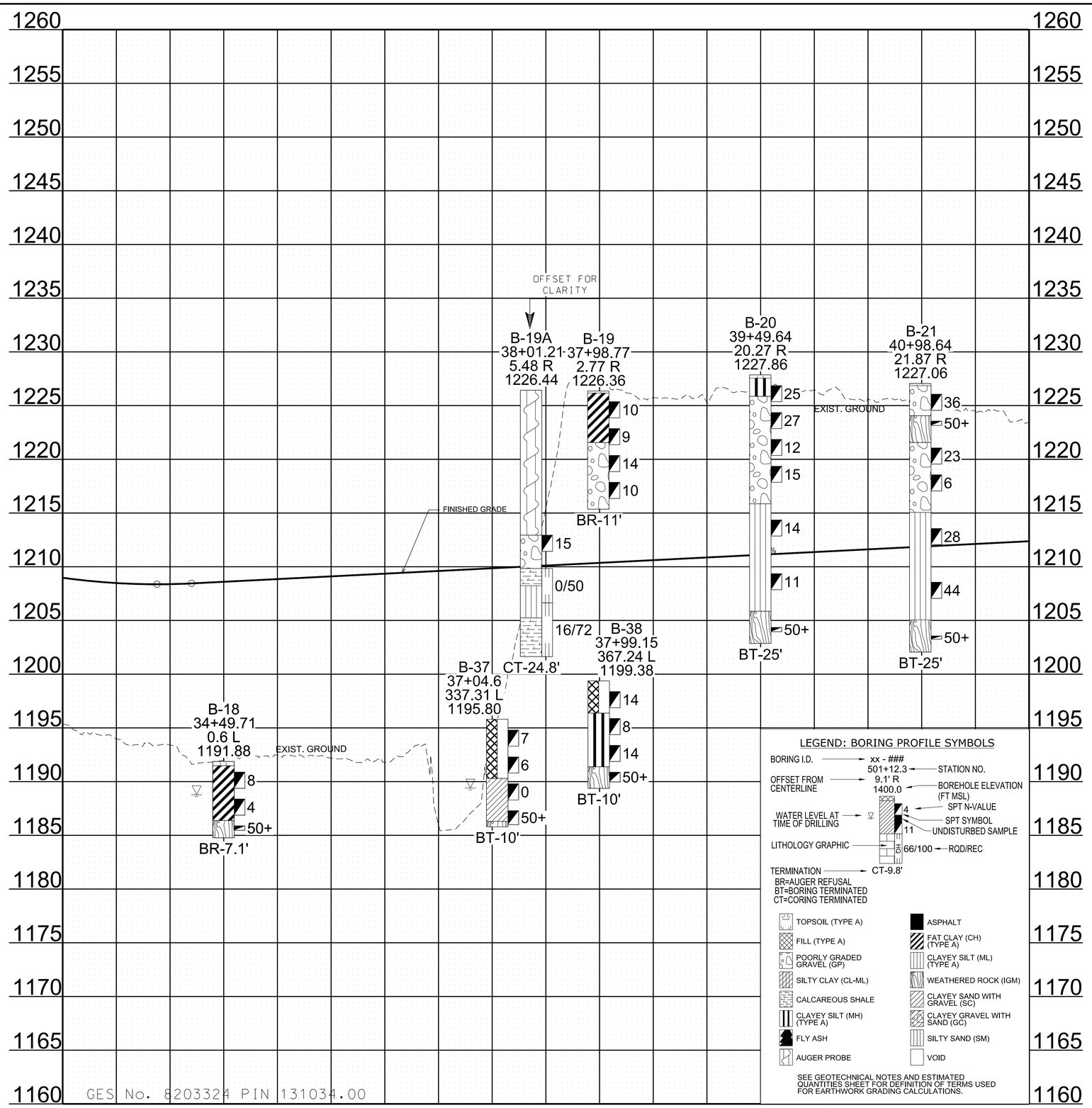
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-12



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 ← STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
SPT N-VALUE
SPT SYMBOL
UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- AUGER PROBE
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 131906
STATE OF TENNESSEE
6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE

STA. 33+00.00 TO STA. 42+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:18 PM
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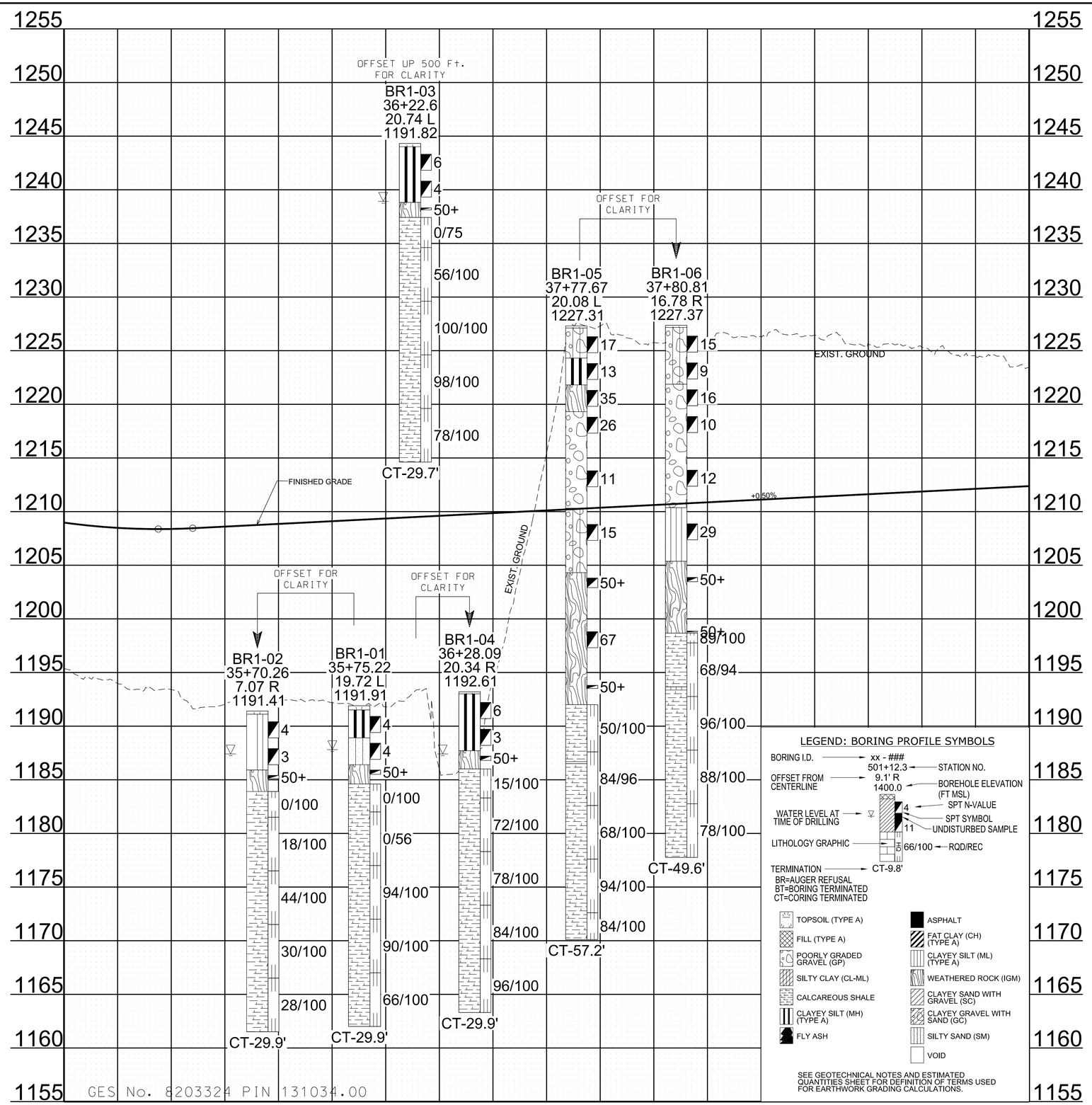
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-13



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 → STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 → BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 → SPT N-VALUE
11 → SPT SYMBOL
UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 → RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
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- FLY ASH
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131906
STATE OF TENNESSEE

6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 33+00.00 TO STA. 42+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:18 PM
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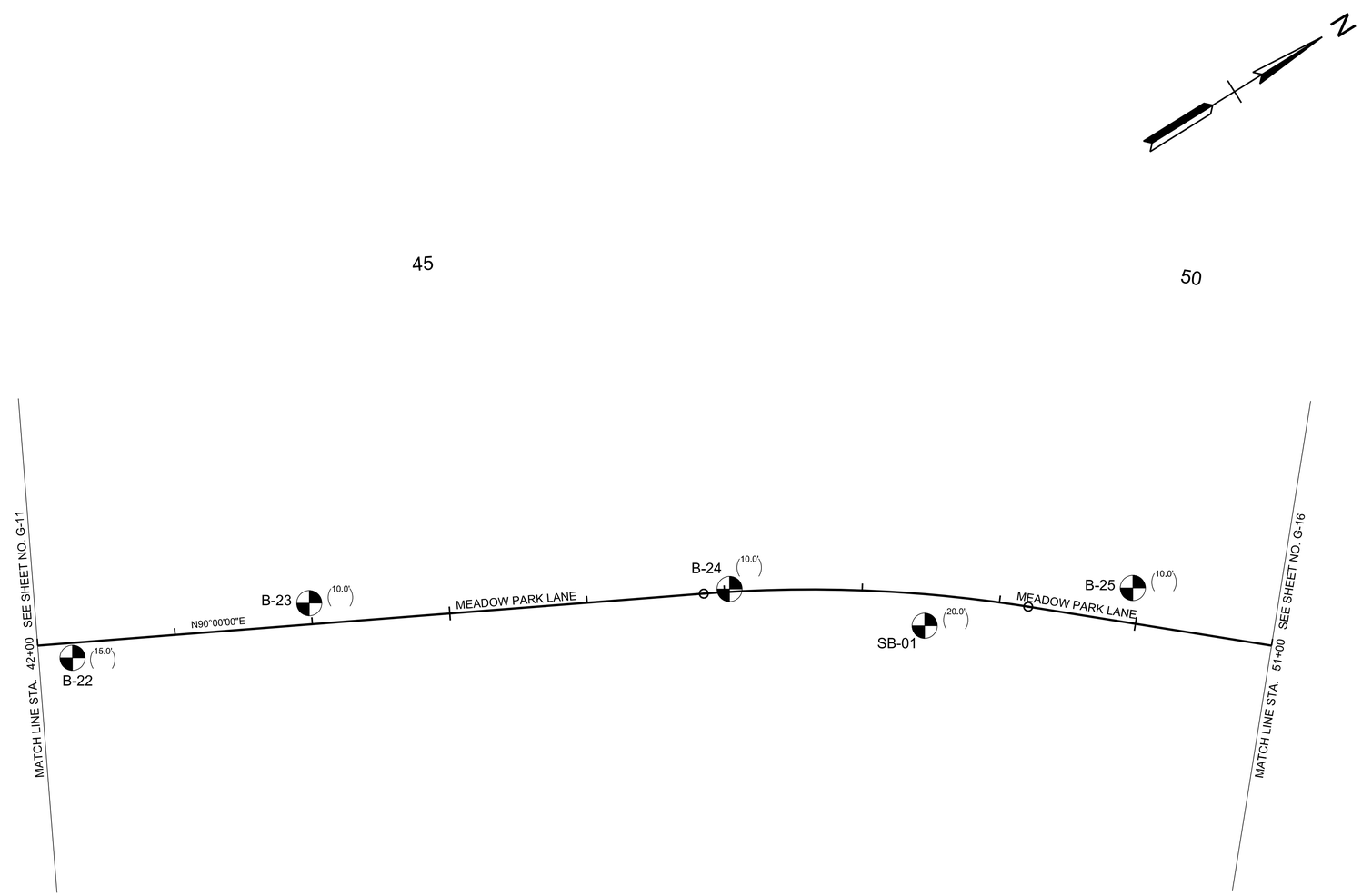
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-14



LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 8203324 / PIN 131034.00

6/29/2026 3:43:21 PM
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SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — No. 131906 — STATE OF TENNESSEE

6/30/2026

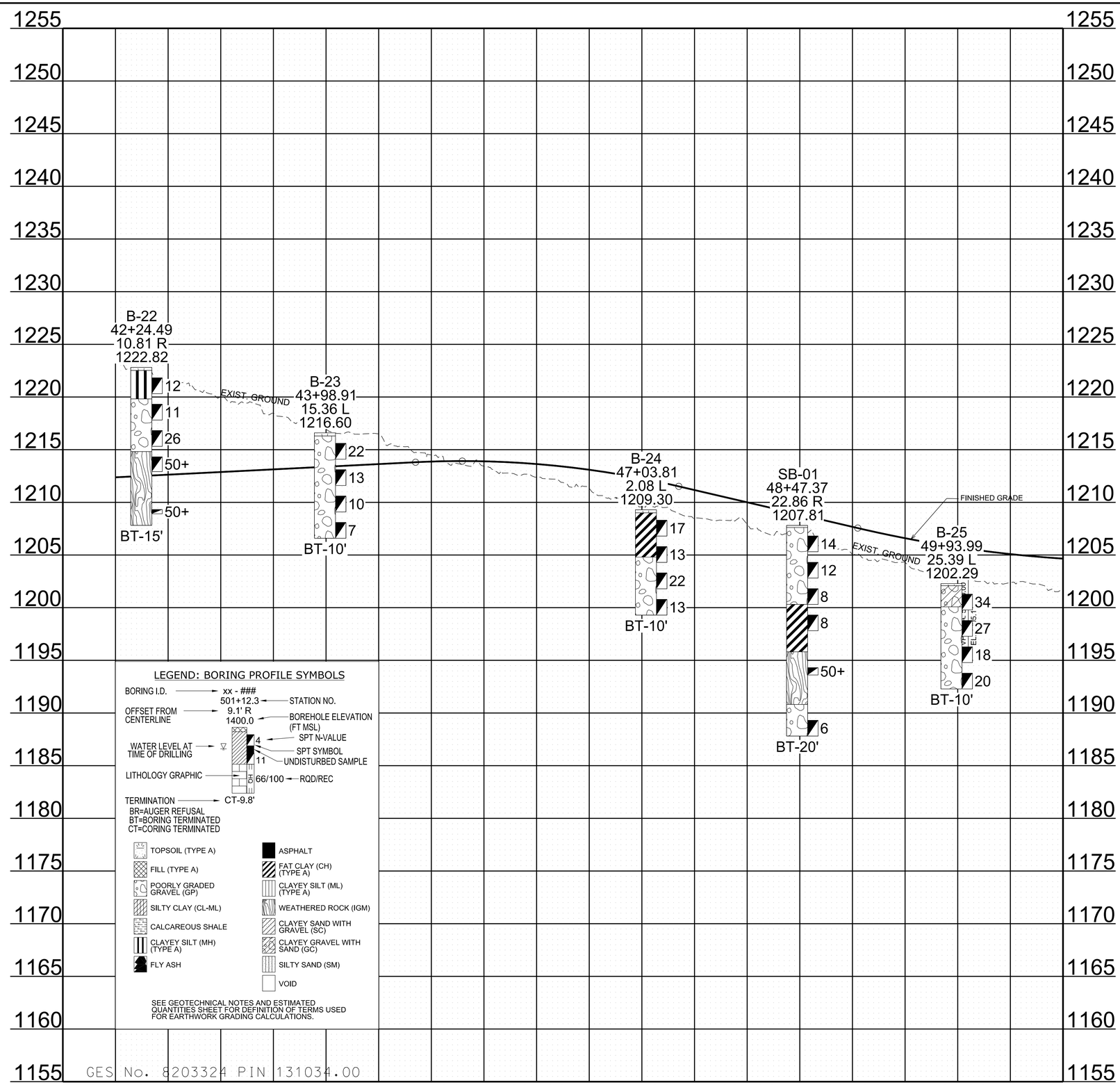
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-15



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 ← STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 ← SPT N-VALUE
SPT SYMBOL
11 ← UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

GES No. 8203324 PIN 131034.00

SEALED BY

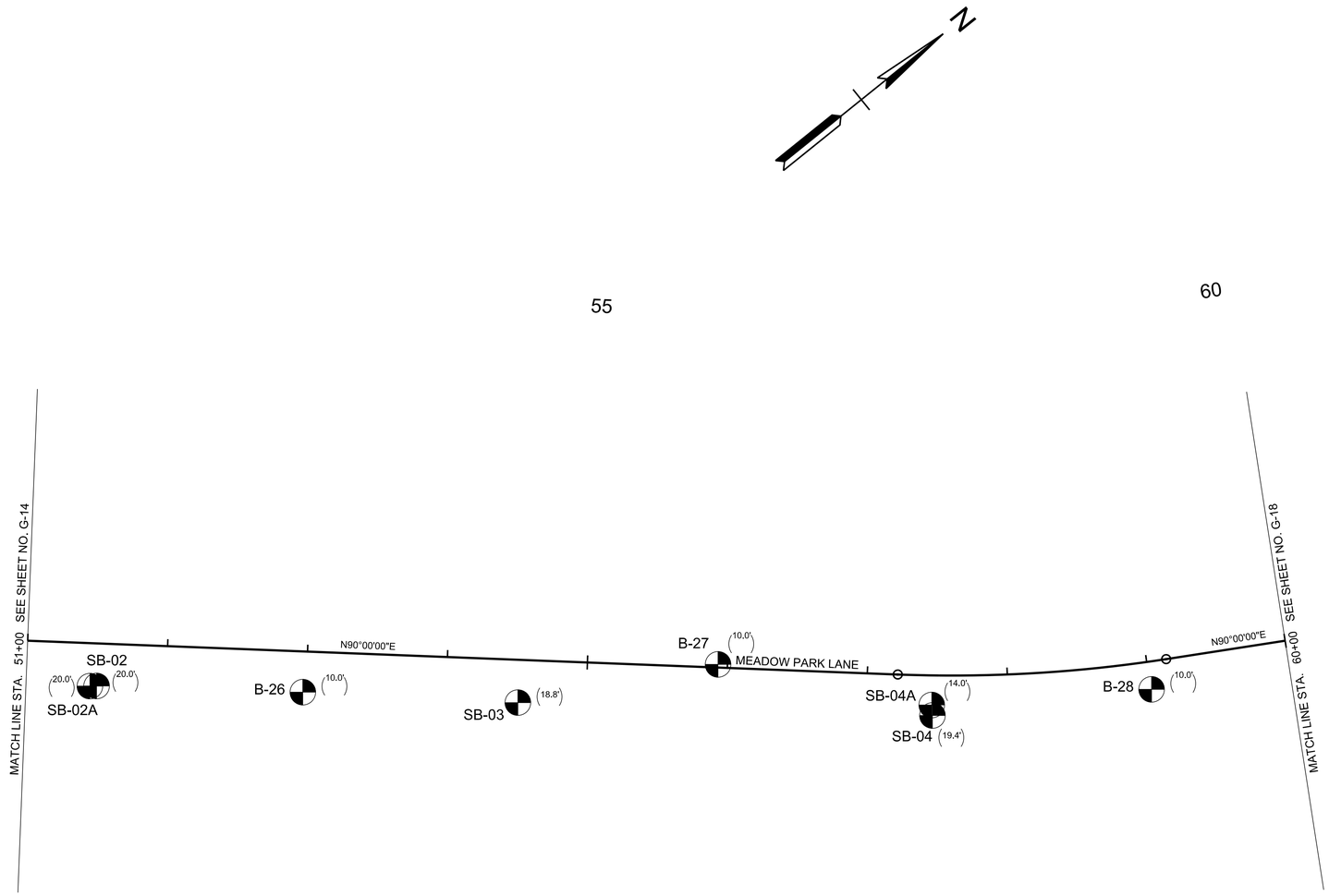
KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131906
STATE OF TENNESSEE
6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE
STA. 42+00.00 TO STA. 51+00.00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:23 PM
F:\37\37743\37743\37743020\04_CAD\TRNSIBASEDRAWINGS\PLOT\82APLN-SHT-PROPOSEDPROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-16



LEGEND

- B-01 (X.X'/X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X'/X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 8203324 / PIN 131034.00

SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE COMMERCE — No. 131905 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

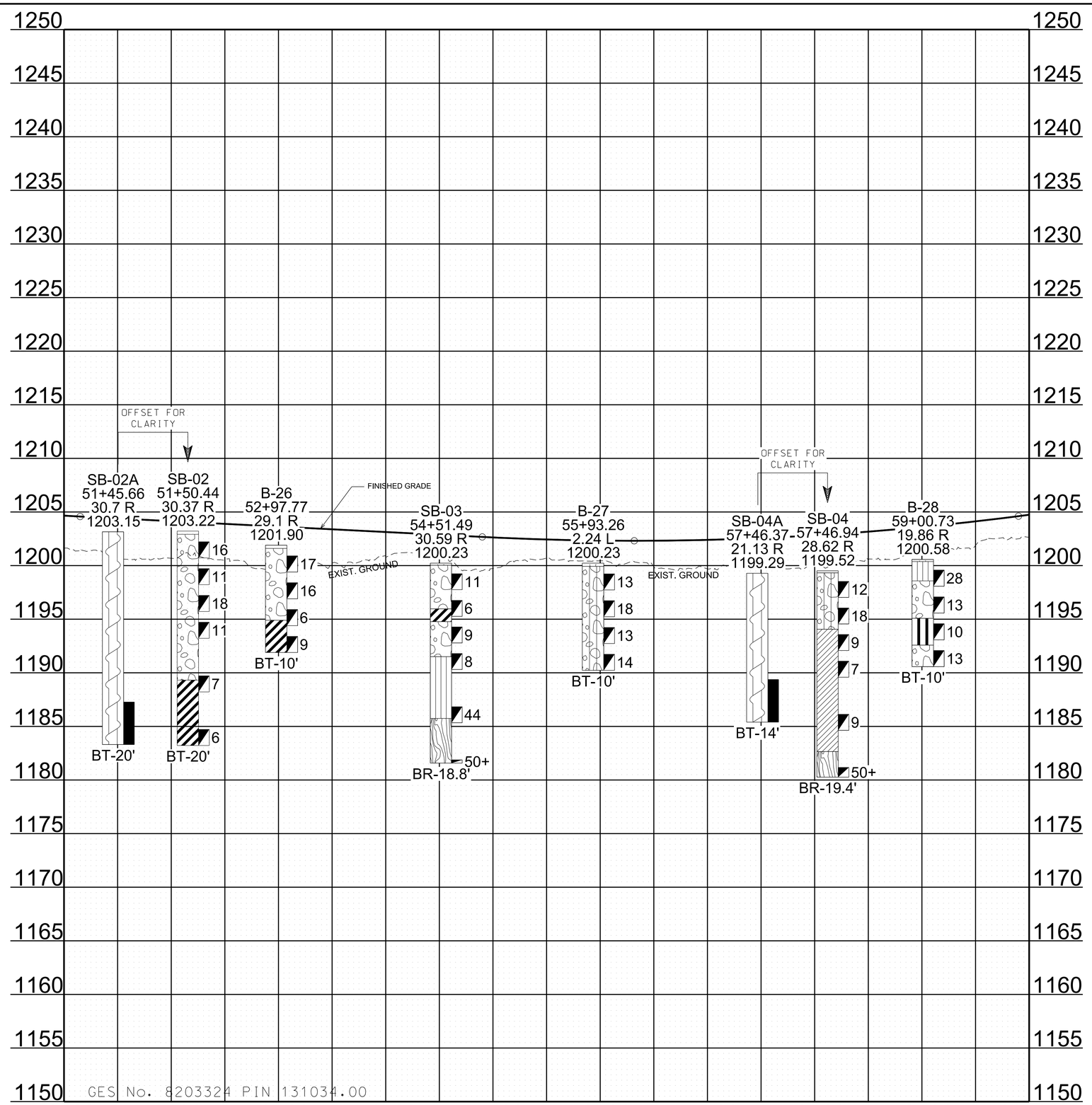
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

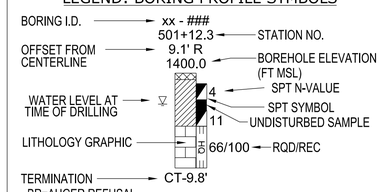
6/29/2026 3:43:25 PM
T:\KNOXVILLE-1430\PROJECTS\2023\23430470A_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-GEOTECH LAYOUTS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-17



GES No. 8203324 PIN 131034.00

LEGEND: BORING PROFILE SYMBOLS

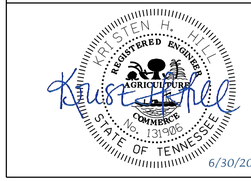


BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
- AUGER PROBE
- ASPHALT
- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

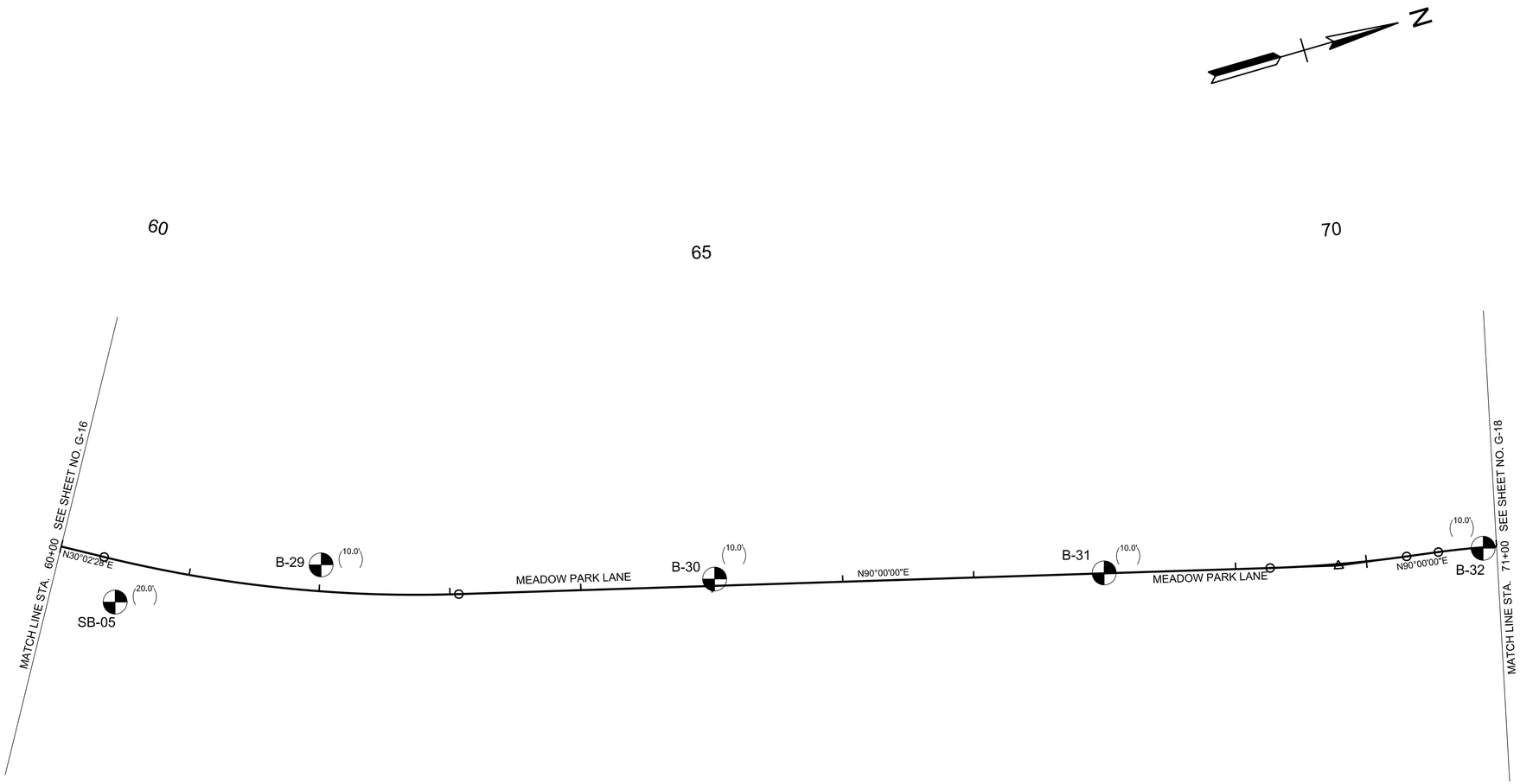
GEOTECHNICAL BORING PROFILE

STA. 51+00.00 TO STA. 60+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:27 PM
T:\KNOXVILLE-1430\PROJECTS\2023\23430470A_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-PROPOSED PROFILES-GEOTECH.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-18



LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, / BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-01 (X.X') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- TP-01 (X.X' / X.X') — TEST PIT LOCATION. DEPTH TO REFUSAL, / BOTTOM OF HOLE (BELOW LINE)
- TP-01 (X.X') — TEST PIT LOCATION WITH DEPTH TO REFUSAL
- TP-01 (X.X') — TEST PIT LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 8203324 / PIN 131034.00

SEALED BY

KRISTEN H. HILL — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 131906 — STATE OF TENNESSEE

6/30/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

6/29/2026 3:43:29 PM
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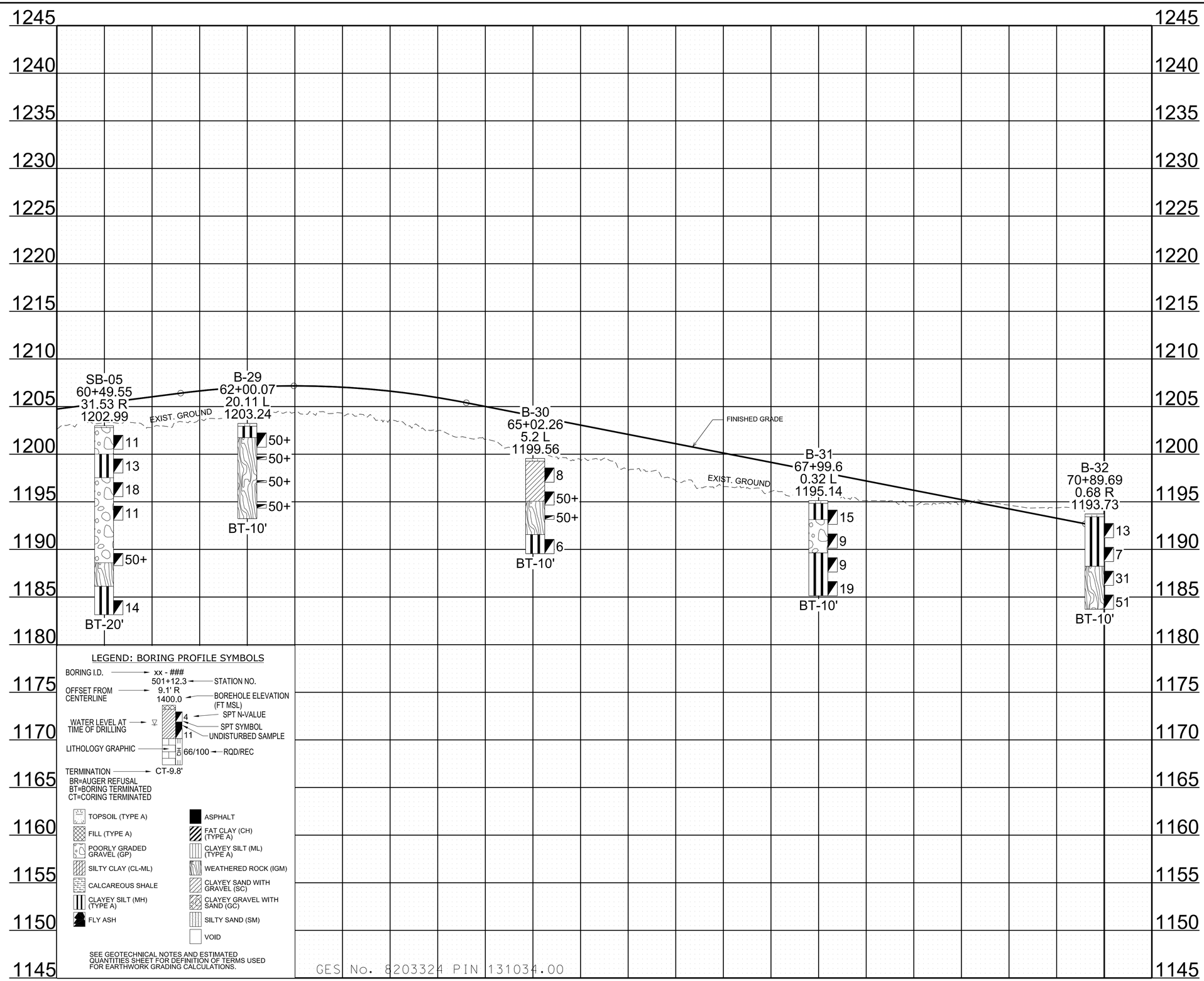
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-19



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 ← STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 ← SPT N-VALUE
11 ← SPT SYMBOL
UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- TOPSOIL (TYPE A)
- FILL (TYPE A)
- POORLY GRADED GRAVEL (GP)
- SILTY CLAY (CL-ML)
- CALCAREOUS SHALE
- CLAYEY SILT (MH) (TYPE A)
- FLY ASH
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- FAT CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- WEATHERED ROCK (IGM)
- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

GES No. 8203324 PIN 131034.00

SEALED BY

KRISTEN H. HILL
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131906
STATE OF TENNESSEE

6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

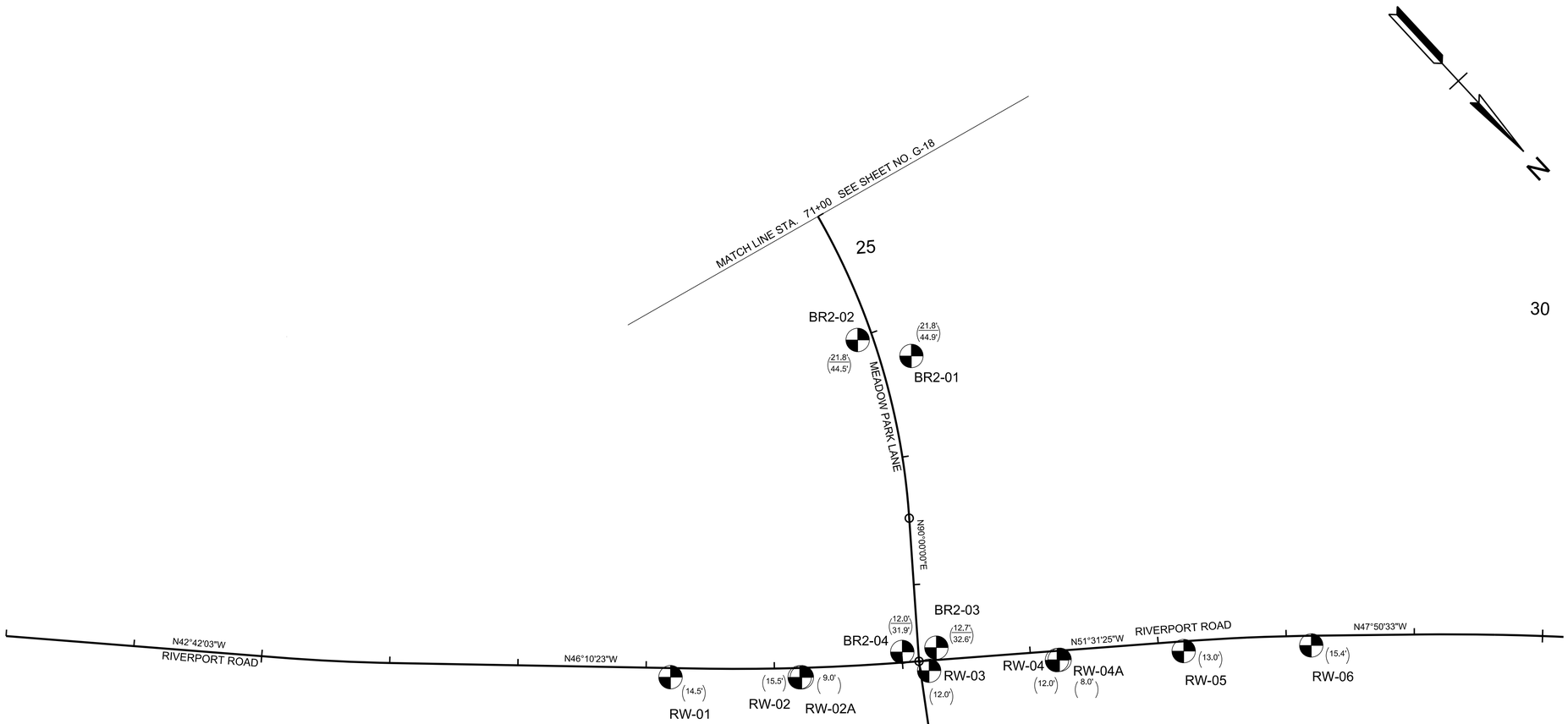
GEOTECHNICAL BORING PROFILE

STA. 60+00.00 TO STA. 71+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:31 PM
T:\KNOXVILLE-1430\PROJECTS\2023\23430470A_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-PROPOSED PROFILES-GEOTECH.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-20



* STATIONING NOTE
GEOTECHNICAL SHEET RIVERPORT ROAD STATION 18+40 IS EQUIVALANT TO ROADWAY PLANS RIVERPORT ROAD STATION 108+40.

END PROJECT NO. 82956-3594-04 CONST.

STA. 74+59.91 MEADOW PARK LANE
STA. 25+13.00 RIVERPORT ROAD

N 817230.0859 E 2978747.9999

LEGEND

- B-01 (X.X' / X.X') — BORING LOCATION. DEPTH TO REFUSAL, BOTTOM OF HOLE (BELOW LINE)
- B-01 (X.X') — BORING LOCATION WITH DEPTH TO REFUSAL
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GES No. 8203324 / PIN 131034.00

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6/30/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 71+00 TO STA. 74+59.91
SCALE: 1" = 50'

6/29/2026 3:43:33 PM
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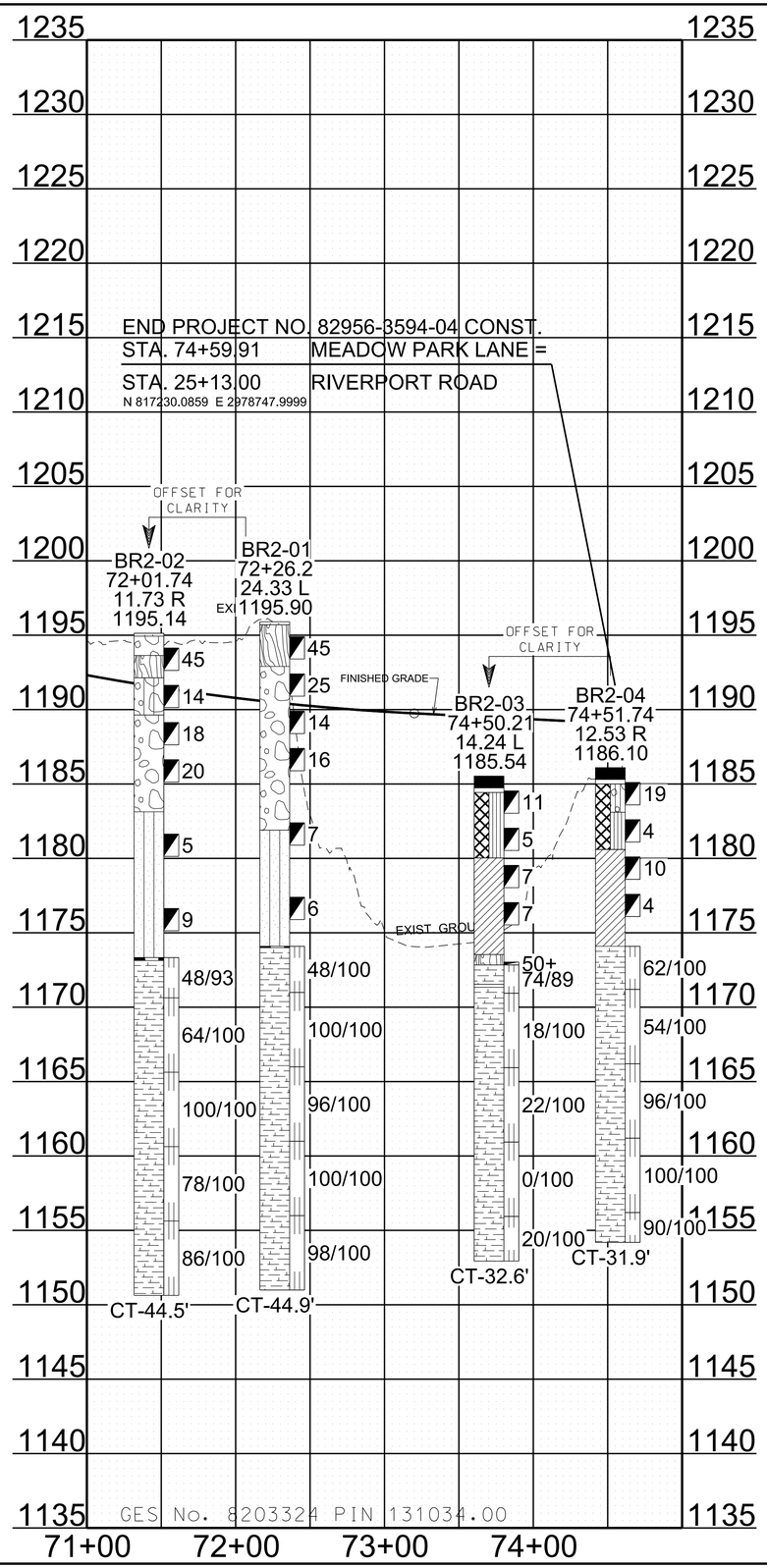
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-21



LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
501+12.3 → STATION NO.
OFFSET FROM CENTERLINE → 9.1' R
1400.0 → BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
4 → SPT N-VALUE
SPT SYMBOL
11 → UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 → RQD/REC
TERMINATION → CT-9.8'

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- CLAYEY GRAVEL WITH SAND (GC)
- SILTY SAND (SM)
- VOID

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 131906
STATE OF TENNESSEE

6/30/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 71+00.00 TO STA. 74+59.91

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

6/29/2026 3:43:35 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-22

STA. 25+13.00 RIVERPORT ROAD =
STA. 74+59.91 MEADOW PARK LANE =
N: 817230.0859 E: 2978747.9999

OFFSET 20' UP FOR CLARITY
RW-02A
24+21.1
7.37 R
1188.34
BT-9'

OFFSET 20' UP FOR CLARITY
RW-04A
26+22.25
7.06 R
1185.16
BT-8'

LIMIT OF CONST.
STA. 18+40.00

LIMIT OF CONST.
STA. 29+00.00

FINISHED GRADE

EXIST GROUND

RW-01
23+18.98
7.14 R
1187.46
10
4
5
20
VC = 100.00'
50+ = 50
BR-14.5'

RW-02
24+19.39
7.35 R
1188.35
11
12
9
9
50+
BR-15.5'

RW-03
25+20.16
7.92 R
1185.88
12
7
4
14
VC =
K
BR-12'

RW-04
26+20.18
7.23 R
1185.13
11
17
4
46
BR-12'

RW-05
27+19.27
7.61 R
1186.46
10
11
12
25
BR-13'

RW-06
28+19.34
7.56 R
1187.30
9
7
7
7
50+
VC = 60.00'
BR-15.4'

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → xx - ###
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OFFSET FROM CENTERLINE → 9.1' R
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- ASPHALT
- FILL (TYPE A)
- FAT CLAY (CH) (TYPE A)
- POORLY GRADED GRAVEL (GP)
- CLAYEY SILT (ML) (TYPE A)
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- WEATHERED ROCK (IGM)
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- CLAYEY SAND WITH GRAVEL (SC)
- CLAYEY SILT (MH) (TYPE A)
- CLAYEY GRAVEL WITH SAND (GC)
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- SILTY SAND (SM)

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

GES No. 8203324 PIN 131034.00

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 131906
STATE OF TENNESSEE

6/30/2026

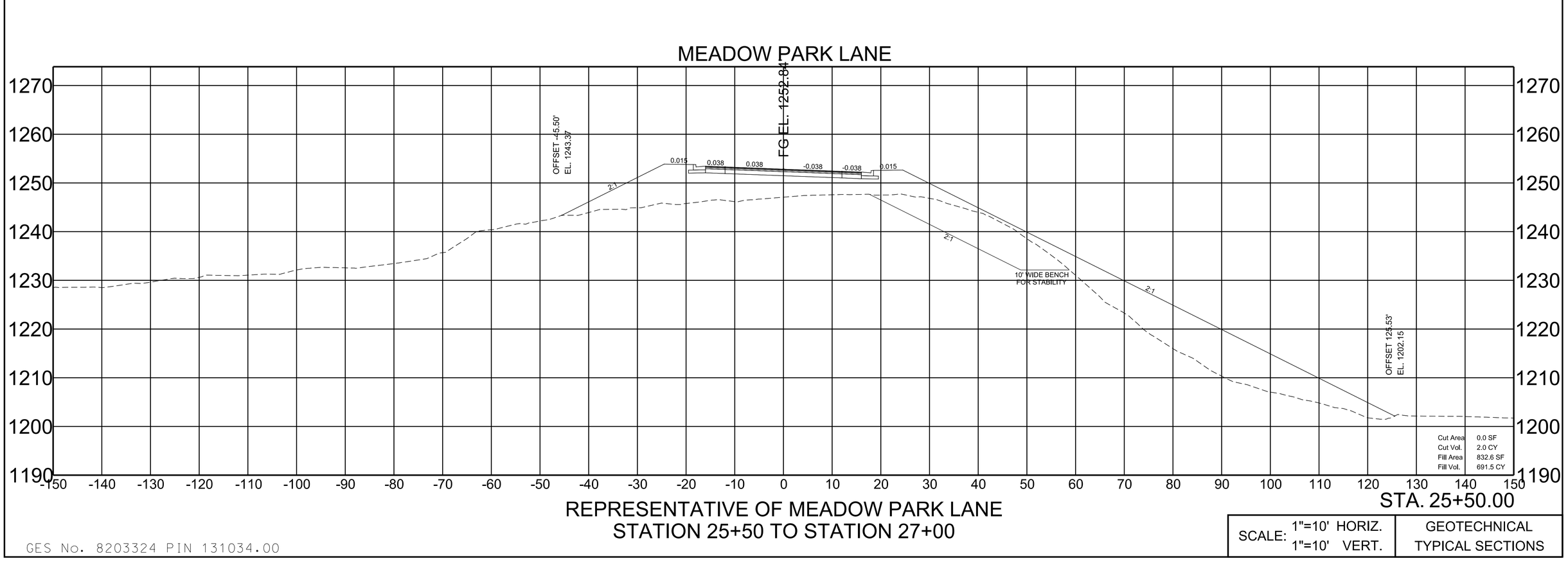
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
PROFILE
STA. 18+40.00 TO STA. 29+00.00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

RIVERPORT ROAD

6/29/2026 3:43:37 PM
T:\KNOXVILLE-14430\PROJECTS\2023\2343047OA_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-PROPOSED SIDEROAD PROFILES-GEOTECH.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-23



REPRESENTATIVE OF MEADOW PARK LANE
STATION 25+50 TO STATION 27+00

GES No. 8203324 PIN 131034.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	GEOTECHNICAL TYPICAL SECTIONS

6/29/2026 3:43:40 PM
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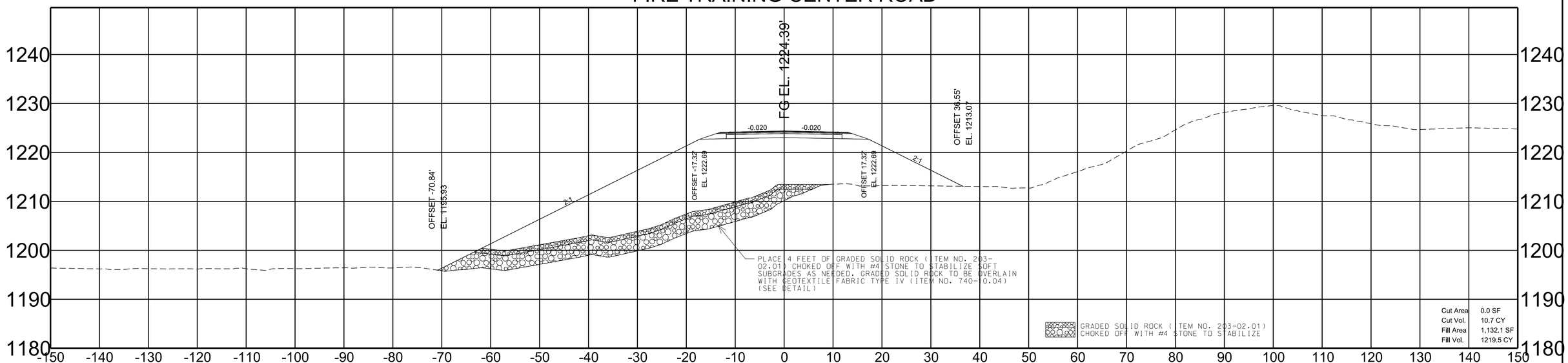
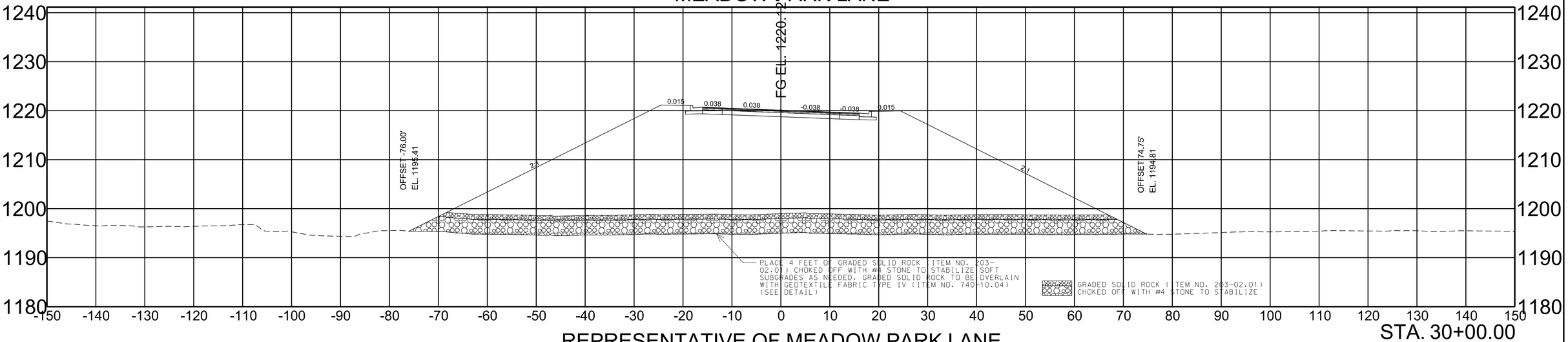
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	G-24

FIRE TRAINING CENTER ROAD



REPRESENTATIVE OF FIRE TRAINING CENTER ROAD
STATION 83+50 TO STATION 84+70

MEADOW PARK LANE



REPRESENTATIVE OF MEADOW PARK LANE
STATION 27+50 TO STATION 35+75.50

SCALE:	1"=10' HORIZ. 1"=10' VERT.	GEOTECHNICAL TYPICAL SECTIONS

GES No. 8203324 PIN 131034.00

6/29/2026 3:43:43 PM
T:\KNOXVILLE-1430\PROJECTS\2023\2343047OA_TDOT_EASTMAN SIA_KINGSPORT TN\GEO\CAD\GEOTECHNICAL SHEETS\82APLN-SHT-XS-GEOTECH.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Joshua Brown 2026.07.02 15:29:37-05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

BARGE DESIGN SOLUTIONS
500 CORPORATE PARKWAY, SUITE 100
BIRMINGHAM, AL 35242
JOSHUA BROWN, P.E. NO.123415

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	LIGHTING-SIGN1
ESTIMATED LIGHTING QUANTITIES	L-1
LIGHTING NOTES	L-2
LIGHTING SCHEDULE	L-3
LIGHTING LAYOUT	L-4-11
LIGHTING DETAILS	L-12

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	LIGHTING-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

$$$$DATE$$$$$$$$$$TIME$$$$$$$$
F:\37\37743\37743002\04_CAD\TRNS\BASED\DRAWINGS\PLOT\02APLN-SHT-LIGHTINGSIGNATURESHEET.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Joshua Brown 2026.07.02 15:30:01-05'00'

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BARGE DESIGN SOLUTIONS
500 CORPORATE PARKWAY, SUITE 100
BIRMINGHAM, AL 35242
JOSHUA BROWN, P.E. NO.123415

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SHEET NAME	SHEET NO.
SIGNATURE SHEET	LIGHTING-SIGN2
ESTIMATED LIGHTING QUANTITIES	L-1

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	LIGHTING-SIGN2

REV. 07-07-26: ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

$$$$DATE$$$$$$$$$$TIME$$$$$$$$
F:\37\37743\37743002\04_CAD\TRNS\BASED\DRAWINGS\PLOT\02APLN-SHT-LIGHTINGSIGNATURESHEET2.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-1
PS&E	2026	82956-3594-04	L-1

REV. 07-07-26
PAY ITEM 714-08.32 ADJUSTED DUE TO
REMOVAL FROM SIGNAL QUANTITIES

SHEET NAME	SHEET NO.
SIGNATURE SHEET	LIGHTING-SIGN1
SIGNATURE SHEET	LIGHTING-SIGN2
ESTIMATED LIGHTING QUANTITIES	L-1
LIGHTING NOTES	L-2
LIGHTING SCHEDULE	L-3
LIGHTING LAYOUT	L-4-11
LIGHTING DETAILS	L-12

ESTIMATED LIGHTING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 82956-3594-04
(1)(2)	714-03	JACKED OR BORED CONDUIT	L.F.	220
(2)	714-03.01	DIRECT BURIAL CONDUIT (2"PVC, SCHEDULE 40)	L.F.	6125
(2)	714-03.02	DIRECT BURIAL CONDUIT (3"PVC, SCHEDULE 40)	L.F.	1940
	714-05.04	PULL BOX (TYPE C)	EACH	22
	714-01.69	REMOVE CONDUCTOR	L.F.	1575
	714-08.28	FOUNDATION FOR LIGHT STANDARDS - ROADWAY (POST TOP)	EA	23
(3)	714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EA	5

FOOTNOTES

(1) SHALL BE HDPE/SDR11.

(2) PROVIDE 1/4" PULL ROPES IN EACH CONDUIT.

(3) INCLUDES 1 EACH AS NOTED IN THE SIGNAL PLANS (THIS PAY ITEM IS FOR REMOVAL OF EXISTING LIGHT POLE AND FOUNDATION AS INDICATED IN THE SIGNAL PLAN SET. THIS SHALL ALSO INCLUDE THE SALVAGE OF THE EXISTING LIGHT FIXTURE MOUNTED ON THE EXISTING POLE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
LIGHTING QUANTITIES

$$$$DATE$$$$$$$$$$$$TIME$$$$$$
F:\37\37743\37743302\04_CAD\TRNSLighting\SCHLT01

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-2
PS&E	2026	82956-3594-04	L-2

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

MISCELLANEOUS

(1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED APRIL 1, 2026 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT EXCEPT AS SPECIFIED.

(3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW FINAL GRADE.

(5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(6) LIGHT STANDARDS SHALL BE PER LIGHTING SCHEDULE REQUIREMENTS. ALL FUTURE LUMINAIRE DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

(7) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.

(8) ALL FIXTURES SHALL BE PER LIGHTING SCHEDULE REQUIREMENTS. ALL FUTURE LUMINAIRE DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

(9) APPALACHIAN POWER (AEP) TO INSPECT ALL CONDUITS AND TRENCHES PRIOR TO BACKFILL.

(10) CONTRACTOR TO INSTALL CONDUIT, PULL BOXES, AND LIGHT FOUNDATIONS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WIRING, ELECTRICAL SERVICE CONNECTIONS, AND LIGHT STANDARDS (POLES AND LUMINAIRES) WILL BE INSTALLED BY OTHERS.

LEGEND	
PULL BOX (TYPE C)	
LIGHT STANDARD (EXISTING)	
LIGHT STANDARD (BIG GEORGE)	
LIGHT STANDARD (MONGOOSE)	
UNDERGROUND POWER	P (UG)
DIRECTIONAL DRILLED CONDUIT	
EXISTING LIGHTING TRANSFORMER BASE	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-3
PS&E	2026	82956-3594-04	L-3

POLE NO.	SHEET NO.	BASELINE	NORTHING	EASTING	LAMP WATTAGE	VOLTAGE	NUMBER OF LAMPS	MOUNTING HEIGHT	TILT (DEGREES)	FIXTURE TYPE	ARM LENGTH	TRANSFORMER BASE NO.
1*	L-4	PARK MEADOW PL	2978019.1350	811619.2600	118	***	1	18'	N/A	POST TOP	N/A	***
2*	L-4	PARK MEADOW PL	2978177.7440	811416.8610	118	***	1	18'	N/A	POST TOP	N/A	***
3*	L-4	PARK MEADOW PL	2978108.4700	811559.1950	118	***	1	18'	N/A	POST TOP	N/A	***
4*	L-4	PARK MEADOW PL	2978131.2660	811648.2970	118	***	1	18'	N/A	POST TOP	N/A	***
5*	L-4	SPRING MEADOW CT	2978191.4600	811726.0560	118	***	1	18'	N/A	POST TOP	N/A	***
6*	L-4	MEADOW PARK LN	2978084.8840	811771.6090	118	***	1	18'	N/A	POST TOP	N/A	***
7*	L-4	MEADOW PARK LN	2978008.5770	811904.8190	118	***	1	18'	N/A	POST TOP	N/A	***
8*	L-4	MEADOW PARK LN	2977991.0050	811724.4670	118	***	1	18'	N/A	POST TOP	N/A	***
9*	L-4	MEADOW PARK LN	2977955.6780	812045.0330	118	***	1	18'	N/A	POST TOP	N/A	***
10*	L-5	MEADOW PARK LN	2977907.9360	812186.6940	118	***	1	18'	N/A	POST TOP	N/A	***
11*	L-5	MEADOW PARK LN	2977856.8270	812328.2340	118	***	1	18'	N/A	POST TOP	N/A	***
12*	L-5	MEADOW PARK LN	2977804.3610	812468.1320	118	***	1	18'	N/A	POST TOP	N/A	***
13*	L-5	MEADOW PARK LN	2977735.5810	812601.6500	118	***	1	18'	N/A	POST TOP	N/A	***
14*	L-5	MEADOW PARK LN	2977642.2560	812718.6380	118	***	1	18'	N/A	POST TOP	N/A	***
15*	L-5	MEADOW PARK LN	2977527.6760	812815.8990	118	***	1	18'	N/A	POST TOP	N/A	***
16*	L-6	MEADOW PARK LN	2977399.7700	812894.5240	118	***	1	18'	N/A	POST TOP	N/A	***
17*	L-6	MEADOW PARK LN	2977274.1560	812977.1980	118	***	1	18'	N/A	POST TOP	N/A	***
18*	L-6	MEADOW PARK LN	2977161.3630	813075.8180	118	***	1	18'	N/A	POST TOP	N/A	***
19*	L-6	MEADOW PARK LN	2977067.1750	813192.2600	118	***	1	18'	N/A	POST TOP	N/A	***
20*	L-6	MEADOW PARK LN	2976996.0450	813323.9820	118	***	1	18'	N/A	POST TOP	N/A	***
21*	L-6	MEADOW PARK LN	2976950.6360	813466.6410	118	***	1	18'	N/A	POST TOP	N/A	***
22*	L-7	MEADOW PARK LN	2976937.0790	813616.5030	118	***	1	18'	N/A	POST TOP	N/A	***
23*	L-7	MEADOW PARK LN	2976953.6940	813766.4870	118	***	1	18'	N/A	POST TOP	N/A	***
24**	L-7	MEADOW PARK LN	2977085.8380	814083.8070	245	***	1	40'	0	OFFSET	N/A	***
25**	L-7	MEADOW PARK LN	2977215.8650	814326.1050	245	***	1	40'	0	OFFSET	N/A	***
26**	L-8	MEADOW PARK LN	2977345.2000	814568.6840	245	***	1	40'	0	OFFSET	N/A	***
27**	L-8	MEADOW PARK LN	2977467.2610	814814.1740	245	***	1	40'	0	OFFSET	N/A	***
28**	L-8	MEADOW PARK LN	2977621.1020	815038.8180	245	***	1	40'	0	OFFSET	N/A	***
29**	L-9	MEADOW PARK LN	2977803.6150	815249.1000	245	***	1	40'	0	OFFSET	N/A	***
30**	L-9	MEADOW PARK LN	2977983.8990	815455.4020	245	***	1	40'	0	OFFSET	N/A	***
31**	L-9	MEADOW PARK LN	2978162.9400	815664.9450	245	***	1	40'	0	OFFSET	N/A	***
32**	L-10	MEADOW PARK LN	2978309.4710	815896.5460	245	***	1	40'	0	OFFSET	N/A	***
33**	L-10	MEADOW PARK LN	2978416.4390	816148.7270	245	***	1	40'	0	OFFSET	N/A	***
34**	L-10	MEADOW PARK LN	2978484.3610	816414.2260	245	***	1	40'	0	OFFSET	N/A	***
35**	L-10	MEADOW PARK LN	2978547.3230	816682.6470	245	***	1	40'	0	OFFSET	N/A	***
36**	L-11	MEADOW PARK LN	2978605.9480	816950.3480	245	***	1	40'	0	OFFSET	N/A	***

NOTES: *CONTRACTOR TO INSTALL FOUNDATION ONLY.
** FUTURE FOUNDATION AND LIGHT STANDARD TO BE INSTALLED BY OTHERS.
*** CIRCUIT ANALYSIS AND POWER DESIGN TO BE CONDUCTED BY AEP.

BRAND	CATALOG NUMBER	FIXTURE TYPE	WATTAGE
HOLOPHANE	9900123396 WAE3 P60 40K MBOLT GL3 BMB	POST TOP	118
STREETWORKS	USSL-XL-PA4A-740-U-T2R 9900122255	OFFSET	245

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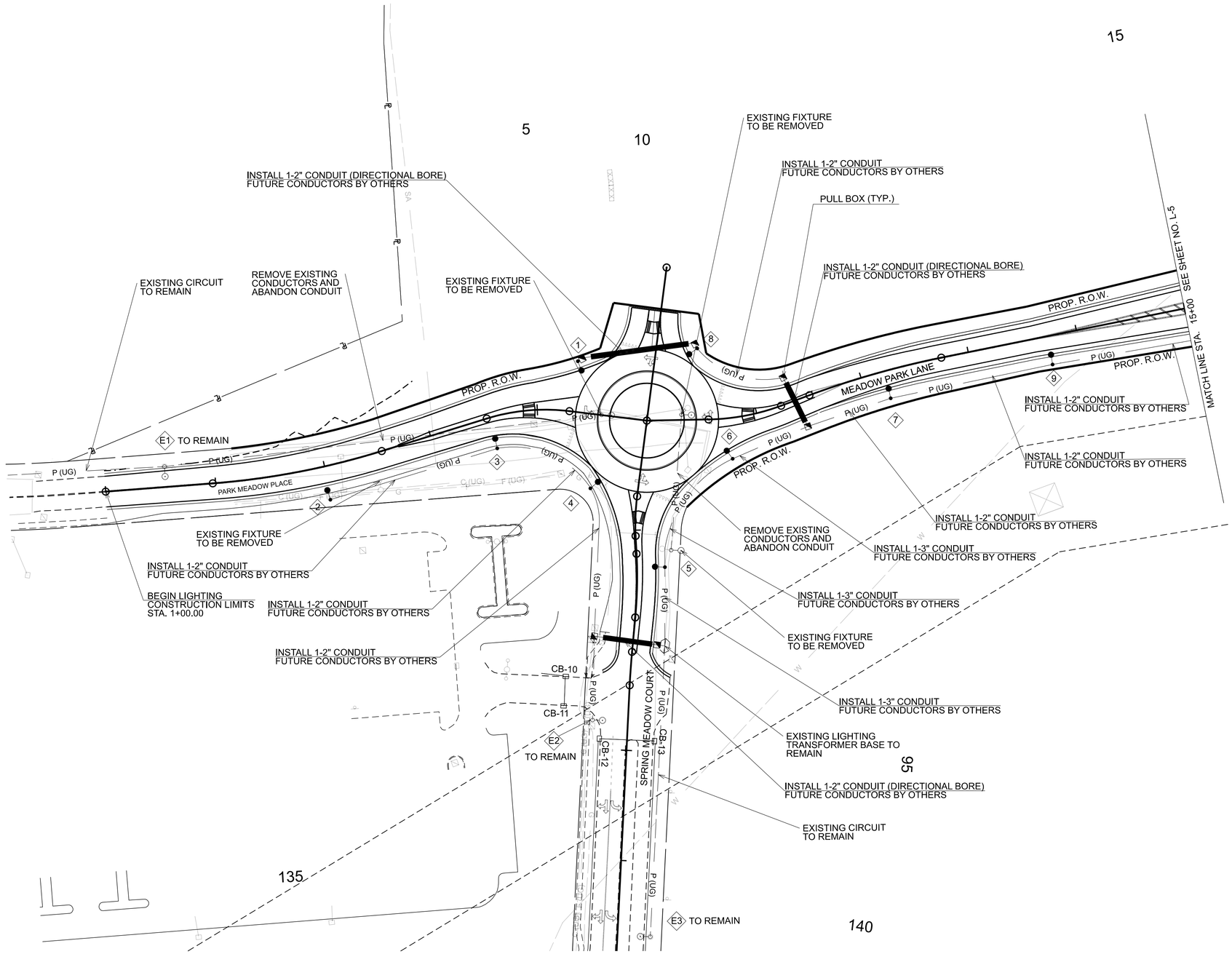
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

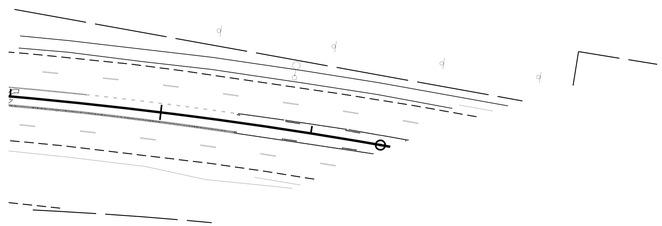
LIGHTING SCHEDULE

$$$$DATE$$$$$$$$$$$TIME$$$$$$$
F:\37\37743\37743302\04_CAD\TRNSL\Lighting\SCHLT01

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-4
PS&E	2026	82956-3594-04	L-4



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
SOUTHERN LEG TRANSITION (RAB)	ILLUMINANCE	FC	0.85	2.7	0.3	2.87	9.00
EASTERN LEG TRANSITION (RAB)	ILLUMINANCE	FC	0.69	2.6	0.2	3.45	13.00
NORTHERN LEG TRANSITION (RAB)	ILLUMINANCE	FC	0.86	2.7	0.3	2.87	9.00
ROUNDABOUT	ILLUMINANCE	FC	1.18	2.9	0.4	2.95	7.25



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 1+00.00 TO STA. 15+00.00
SCALE: 1" = 50'

$$$$DATE$$$$$$$$$$$$TIME$$$$$$
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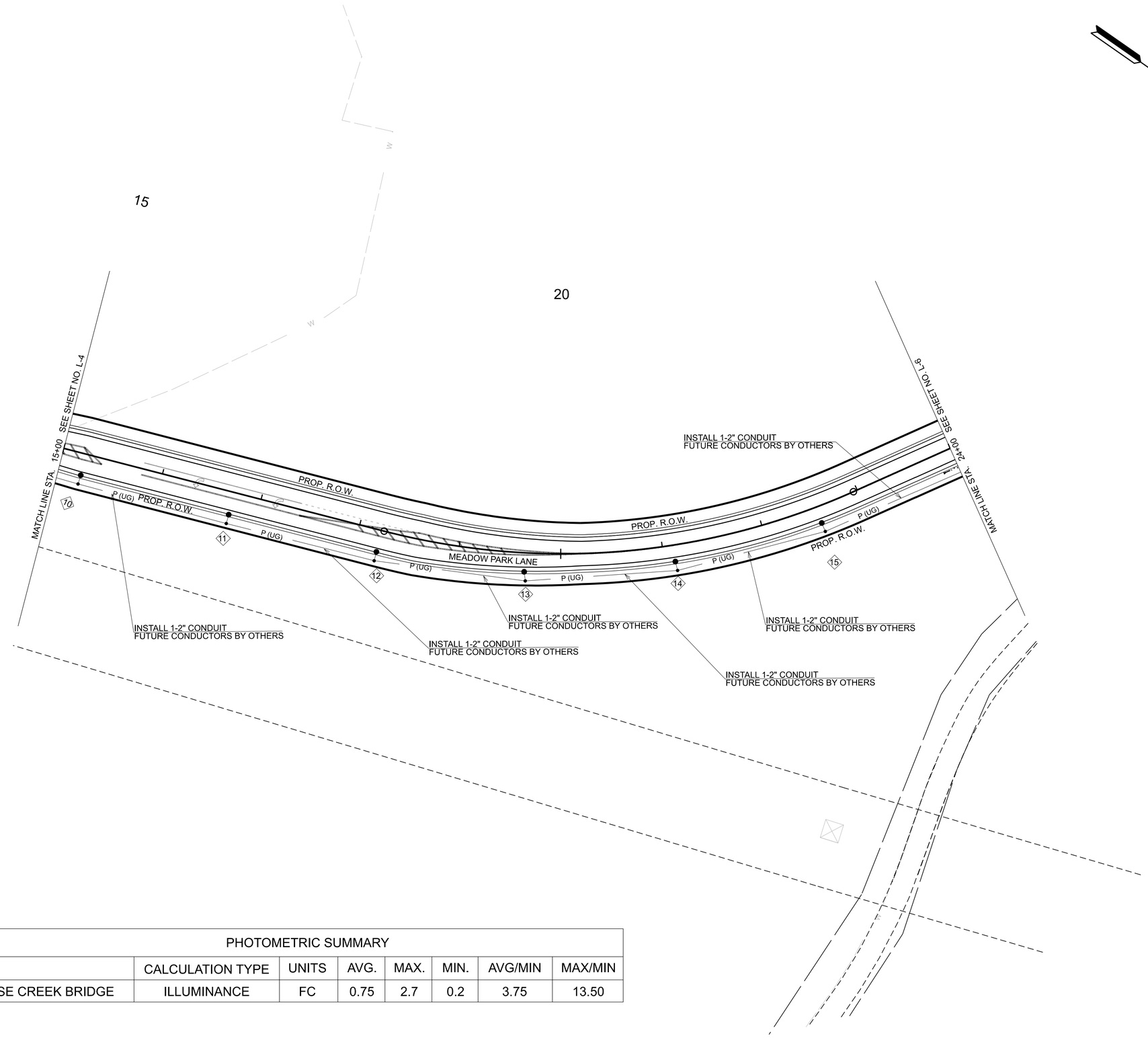
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-5
PS&E	2026	82956-3594-04	L-5



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
MEADOW PARK LANE TO HORSE CREEK BRIDGE	ILLUMINANCE	FC	0.75	2.7	0.2	3.75	13.50

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LIGHTING LAYOUT

STA. 15+00.00 TO STA. 24+00.00
SCALE: 1" = 50'

$$$$DATE$$$$$$$$$$TIME$$$$$$
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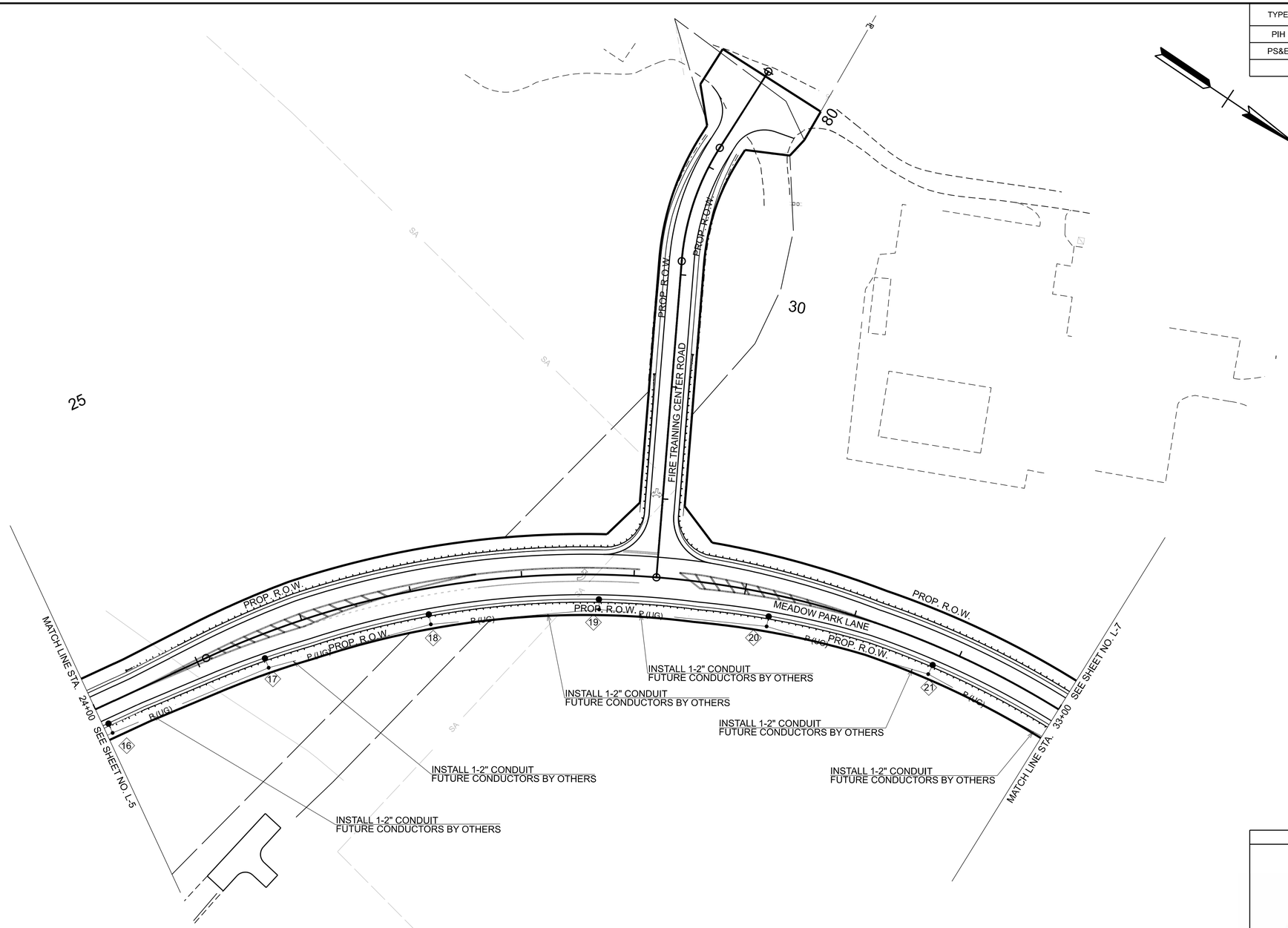
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-6
PS&E	2026	82956-3594-04	L-6



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
MEADOW PARK LANE TO HORSE CREEK BRIDGE	ILLUMINANCE	FC	0.75	2.7	0.2	3.75	13.50

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LIGHTING LAYOUT

STA. 24+00.00 TO STA. 33+00.00
SCALE: 1" = 50'

$$$$DATE$$$$$$$$$$TIME$$$$$$
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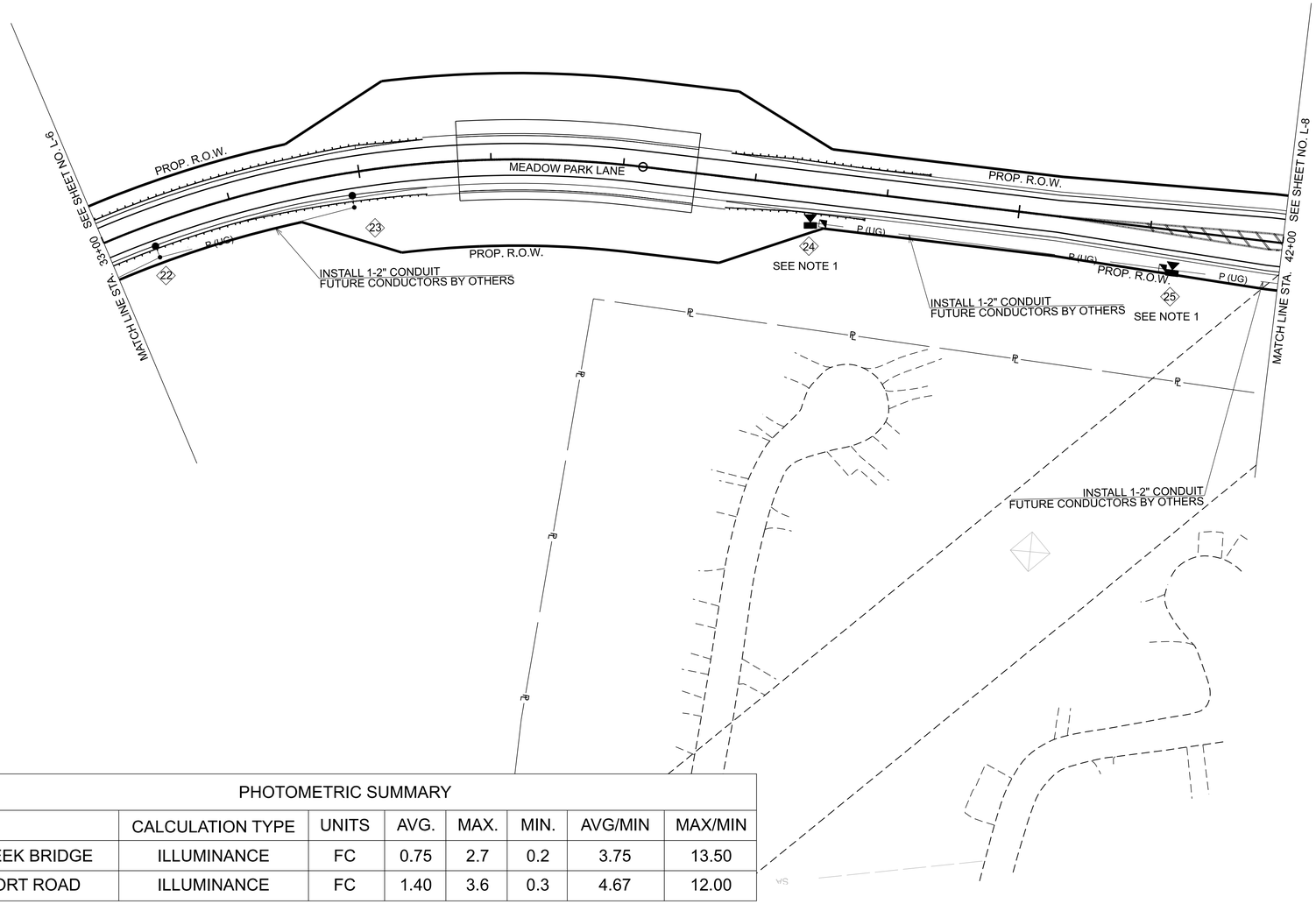
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-7
PS&E	2026	82956-3594-04	L-7

NOTES:

1) FUTURE FOUNDATION AND LIGHT STANDARD (POLE AND LUMINAIRE) TO BE INSTALLED BY OTHERS.



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
MEADOW PARK LANE TO HORSE CREEK BRIDGE	ILLUMINANCE	FC	0.75	2.7	0.2	3.75	13.50
HORSE CREEK BRIDGE TO RIVERPORT ROAD	ILLUMINANCE	FC	1.40	3.6	0.3	4.67	12.00

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LIGHTING LAYOUT

STA. 33+00.00 TO STA. 42+00.00
SCALE: 1" = 50'

$$$$DATE$$$$$$$$$$TIME$$$$$$$
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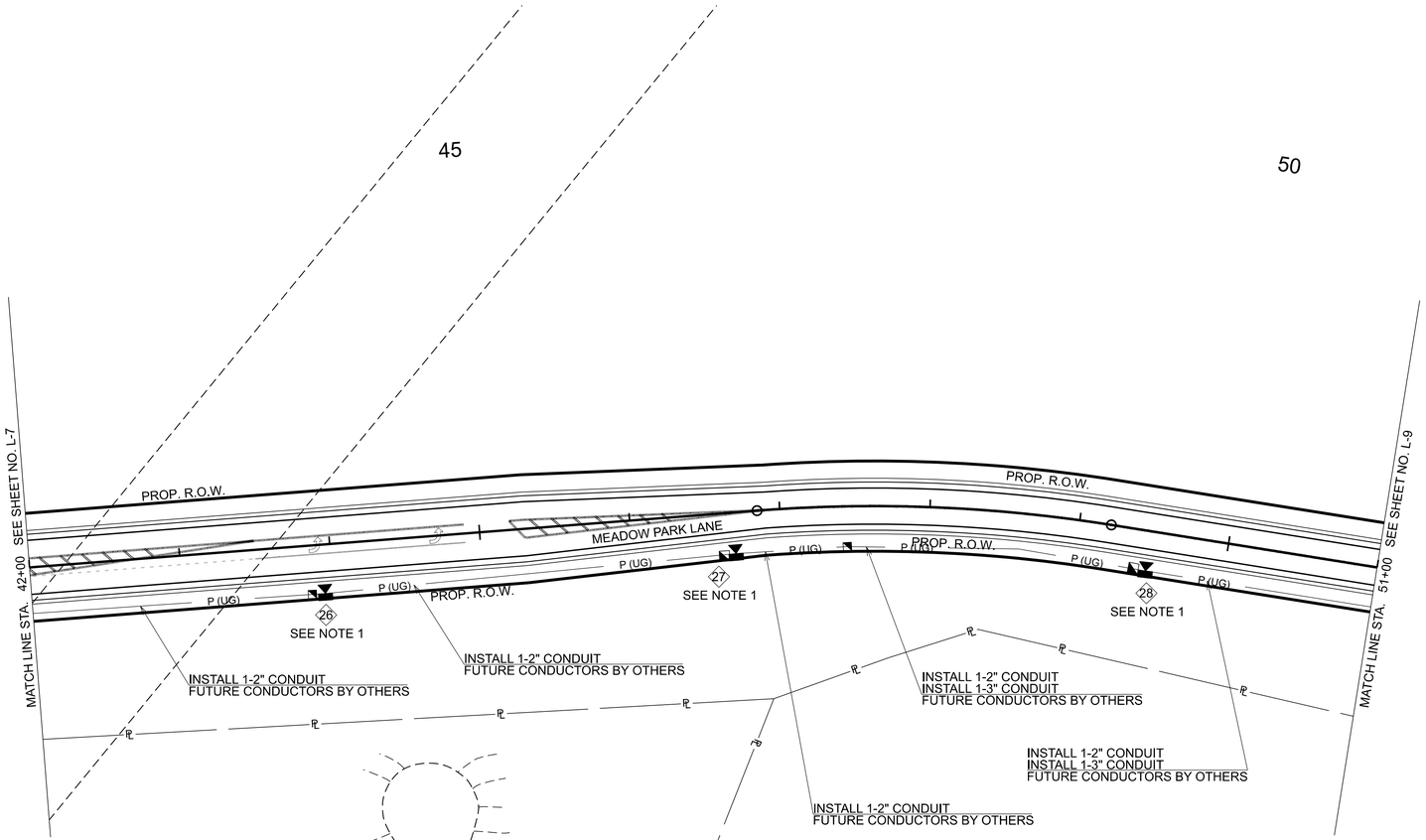
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-8
PS&E	2026	82956-3594-04	L-8

NOTES:

1) FUTURE FOUNDATION AND LIGHT STANDARD (POLE AND LUMINAIRE) TO BE INSTALLED BY OTHERS.



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
HORSE CREEK BRIDGE TO RIVERPORT ROAD	ILLUMINANCE	FC	1.40	3.6	0.3	4.67	12.00

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STATE OF TENNESSEE
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LIGHTING LAYOUT

STA. 42+00.00 TO STA. 51+00.00
SCALE: 1" = 50'

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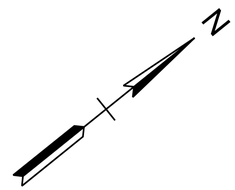
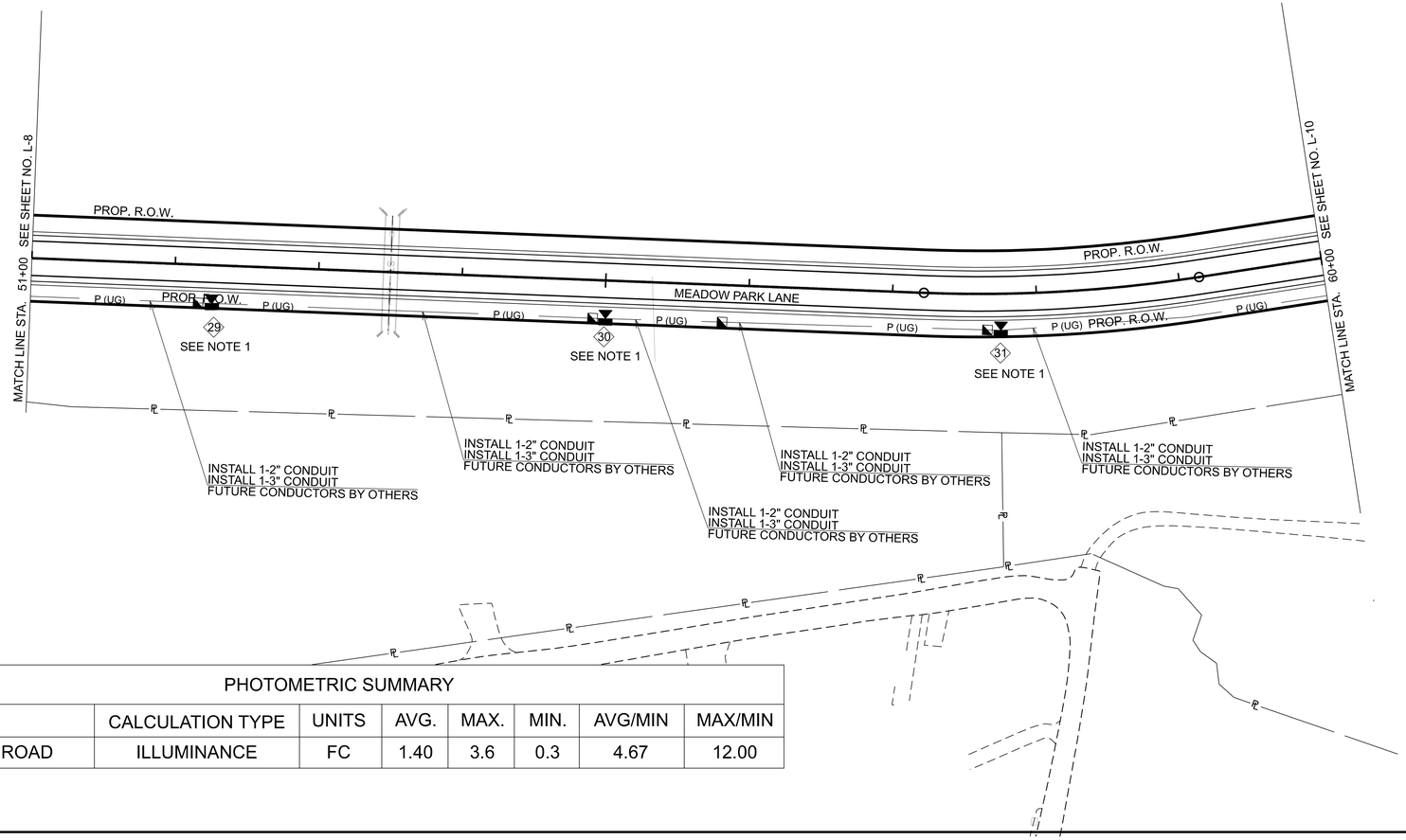
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-9
PS&E	2026	82956-3594-04	L-9

NOTES:

1) FUTURE FOUNDATION AND LIGHT STANDARD (POLE AND LUMINAIRE) TO BE INSTALLED BY OTHERS.





PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
HORSE CREEK BRIDGE TO RIVERPORT ROAD	ILLUMINANCE	FC	1.40	3.6	0.3	4.67	12.00

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LIGHTING LAYOUT

STA. 51+00.00 TO STA. 60+00.00
SCALE: 1" = 50'

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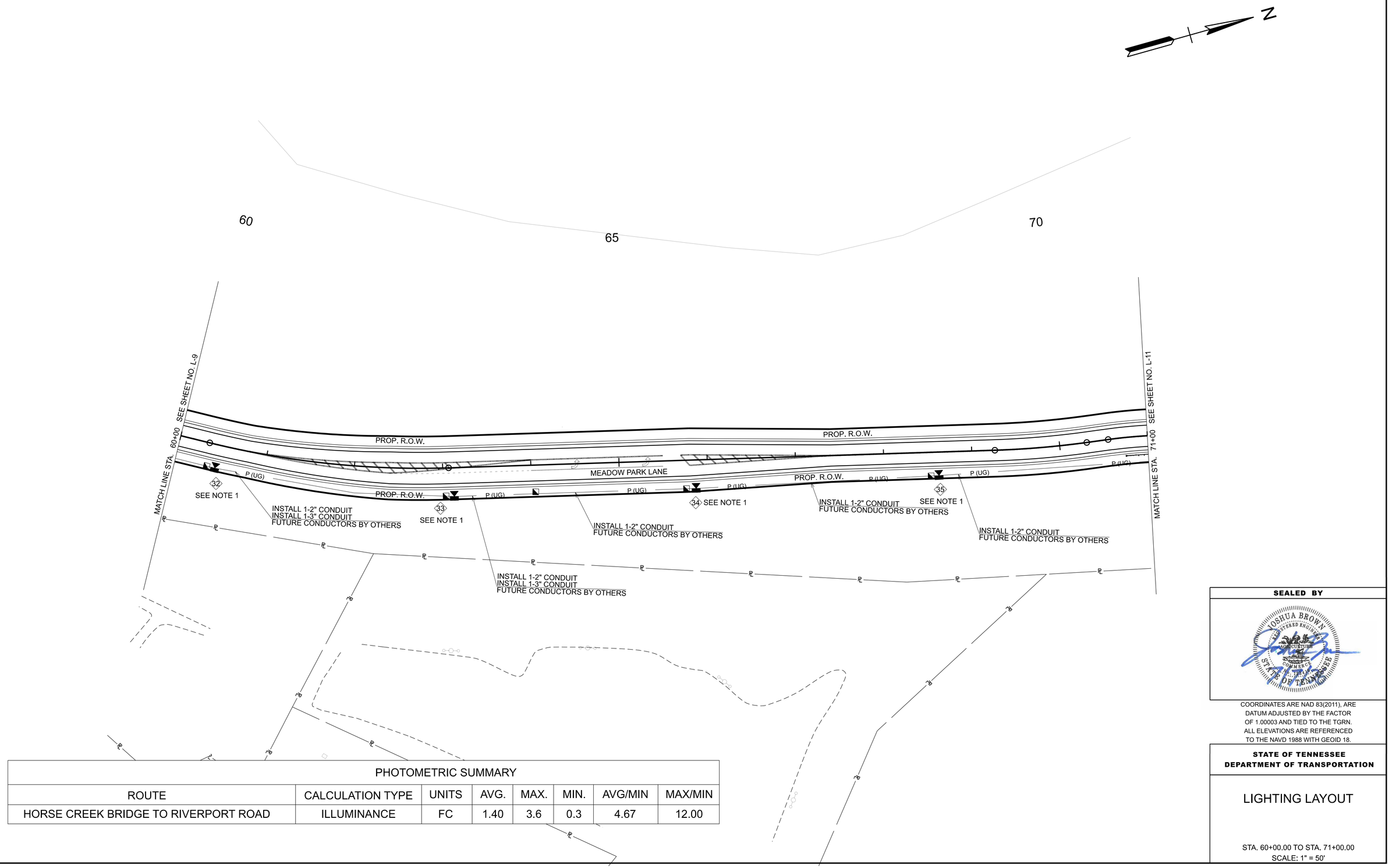
NOTES:

1) FUTURE FOUNDATION AND LIGHT STANDARD (POLE AND LUMINAIRE) TO BE INSTALLED BY OTHERS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-10
PS&E	2026	82956-3594-04	L-10



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
HORSE CREEK BRIDGE TO RIVERPORT ROAD	ILLUMINANCE	FC	1.40	3.6	0.3	4.67	12.00

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LIGHTING LAYOUT

STA. 60+00.00 TO STA. 71+00.00
SCALE: 1" = 50'

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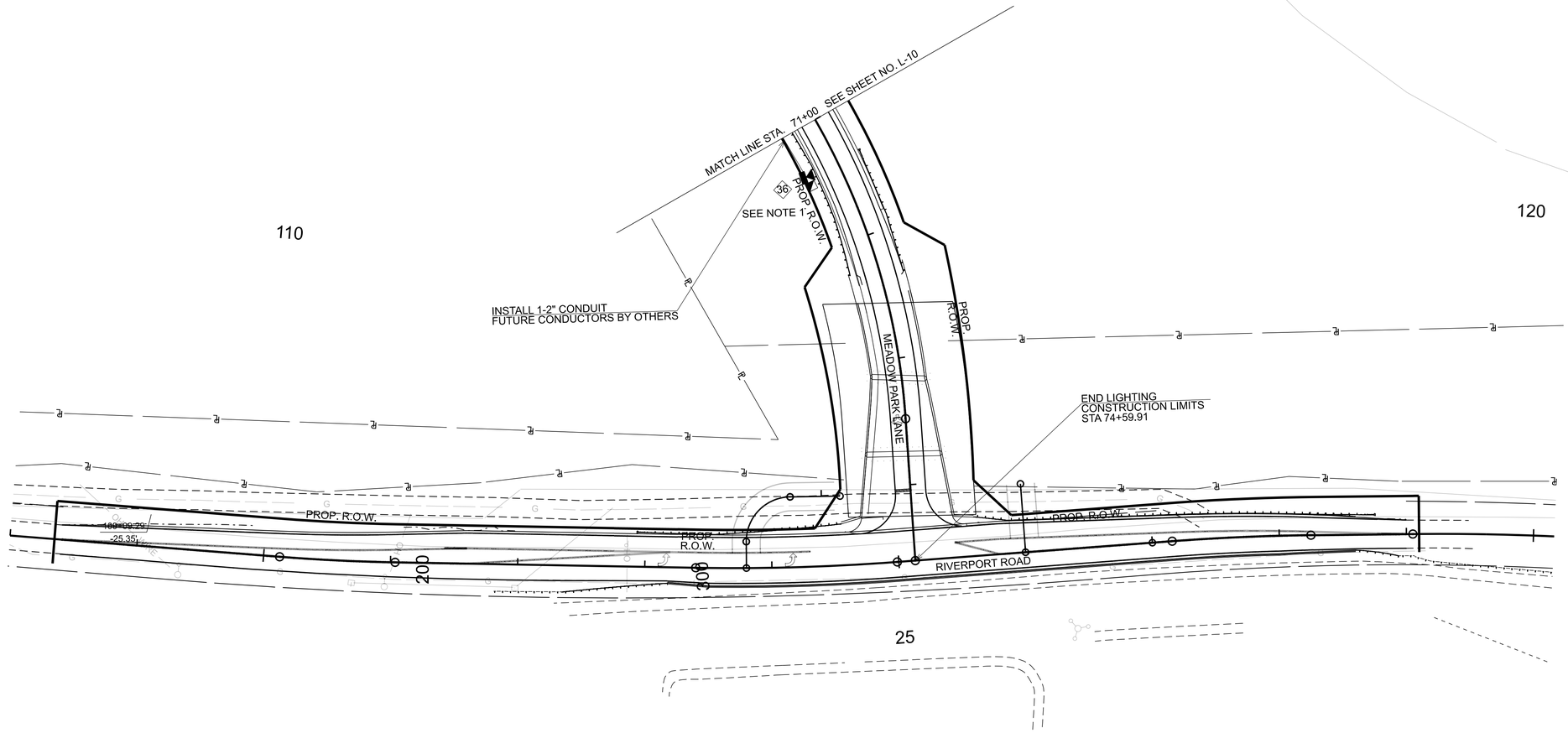
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-11
PS&E	2026	82956-3594-04	L-11

NOTES:

1) FUTURE FOUNDATION AND LIGHT STANDARD (POLE AND LUMINAIRE) TO BE INSTALLED BY OTHERS.



PHOTOMETRIC SUMMARY							
ROUTE	CALCULATION TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX/MIN
HORSE CREEK BRIDGE TO RIVERPORT ROAD	ILLUMINANCE	FC	1.40	3.6	0.3	4.67	12.00

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LIGHTING LAYOUT

STA. 71+00.00 TO STA. 74+59.91
SCALE: 1" = 50'

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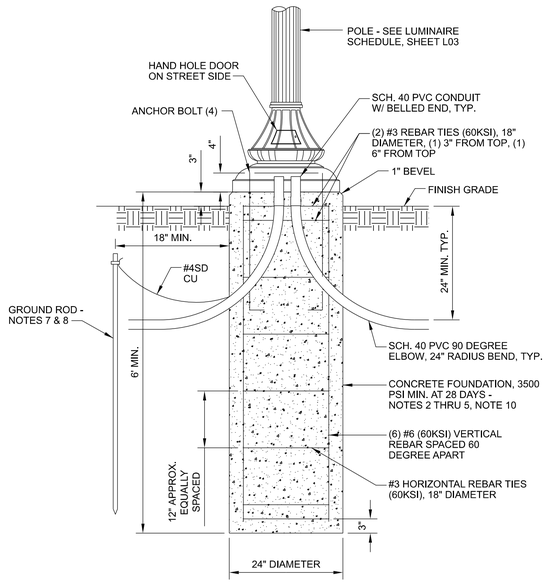
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	L-12
PS&E	2026	82956-3594-04	L-12

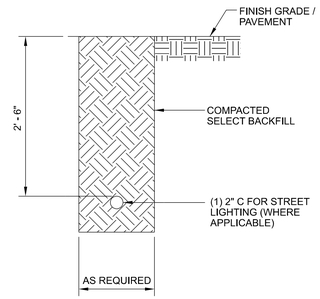


NOTES:

1. POLE SHALL NOT BE INSTALLED UNTIL CONCRETE HAS CURED A MINIMUM OF THREE DAYS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REVISION OF ACI318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AS WELL AS ANY OTHER APPROPRIATE CODES OR REGULATIONS.
3. EACH FOUNDATION SHALL BE POURED IN A SINGLE CONTINUOUS POUR.
4. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE HOLE PRIOR TO CONCRETE PLACEMENT. THE SIDES OF THE EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE MATERIAL.
5. CONCRETE SHALL BE PLACED IN A MANNER THAT PREVENTS SEGREGATION OF THE CONCRETE AND / OR INFILTRATION OF WATER OR SOIL. FREE FALL CONCRETE IS ALLOWED PROVIDED THE CONCRETE DOES NOT HIT THE SIDES OF THE EXCAVATION OR THE REBAR. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
6. NOT USED
7. GROUND RODS ARE TO BE DRIVEN TO A DEPTH OF 6" BELOW FINISH GRADE UNLESS ROCK OR OTHER OBSTRUCTIONS ARE ENCOUNTERED. RESISTANCE OF INDIVIDUAL GROUND LOCATIONS SHOULD BE LOWERED TO PRACTICAL VALUES. ADDITIONAL GROUND RODS MAY BE DRIVEN (NO MORE THAN (3) AT ANY SINGLE LOCATION).
8. GROUNDING CONDUCTOR SHALL BE CONNECTED TO GROUNDING STUD OF METALLIC POLE IN VICINITY OF HAND HOLE AND TO LUMINAIRE GROUNDING LUG.
9. NOT USED
10. FORM FOR CONCRETE FOUNDATION SHALL BE MADE FROM SONOTUBE OR SIMILAR MATERIAL. FORM SHALL EXTEND A MINIMUM OF 12" BELOW FINISH GRADE.
11. REFER TO POLE MANUFACTURER'S INSTRUCTIONS FOR PLACEMENT OF ANCHOR BOLTS AND TORQUE REQUIREMENTS. POLE MANUFACTURER SHALL PROVIDE TEMPLATE AND ANCHOR BOLTS.

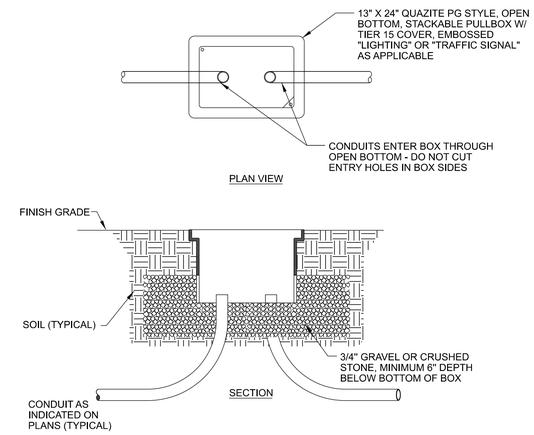
TYPICAL ROADWAY POLE AND FOUNDATION DETAIL

SCALE: NTS



STREET LIGHTING OR TRAFFIC SIGNAL DUCT BANK SECTION

SCALE: NTS



TYPICAL LIGHTING OR TRAFFIC SIGNAL PULL-BOX

SCALE: NTS

SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

ACCEPTABLE WALL TYPES

CAST-IN-PLACE CONCRETE CANTILEVER WALL
CAST-IN-PLACE OR PRECAST CONCRETE GRAVITY WALL
MECHANICALLY STABILIZED EARTH (MSE) WALL - SEGMENTAL PRECAST
MECHANICALLY STABILIZED EARTH (MSE) WALL - MODULAR BLOCK

THE RETAINING WALL(S) SHALL BE ONE OF THE WALL TYPE(S) AS LISTED ABOVE OR ON FORTHCOMING "RETAINING WALL DETAIL-GEOMETRIC LAYOUT" SHEET(S). ANY PROPRIETARY RETAINING WALL SYSTEM SHOULD BE LISTED AS PRE-APPROVED IN OPL 38.

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN:
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND INTERIMS

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN OPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT. IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE "RETAINING WALL DETAIL" SHEET(S) TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS.

- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.

- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II SHALL BE EVALUATED AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND INTERIMS.

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	CIP WALLS	PRECAST GRAVITY WALLS	MSE WALLS	NOTE
DESIGN LIFE	75 YEARS	75 YEARS	75 YEARS	
SEISMIC ACCELERATION COEFFICIENTS				
As	0.174	0.174	0.174	
S_{DS}	0.345	0.345	0.345	
S_{D1}	0.146	0.146	0.146	
EFFECTIVE (DRAINED) FRICTION ANGLE				
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	25 °	25 °	25 °	
RETAINED BACKFILL-SELECT BACKFILL	34° TO MAX 40°	34° TO MAX 40°	34° TO MAX 40°	1
REINFORCED BACKFILL	34° TO MAX 40°	NOT APPLICABLE	NOT APPLICABLE	1
UNIT WEIGHT				
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	120 POUNDS PER CUBIC FOOT	120 POUNDS PER CUBIC FOOT	
SELECT BACKFILL MATERIAL	VARIES	VARIES	VARIES	1A
DESIGN BASIS				
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2	SEE TABLE 3	SEE TABLE 4	2
NOMINAL BEARING RESISTANCE	SEE TABLE 2	SEE TABLE 3	SEE TABLE 4	2
MINIMUM LENGTH OF SOIL REINFORCEMENT, L	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
LIMITING ECCENTRICITY	B/3 (SOIL), 9B/20 (ROCK)	B/3 (SOIL), 9B/20 (ROCK)	B/3 (SOIL), 9B/20 (ROCK)	
RESISTANCE FACTORS				
SLIDING-STATIC	1.0	0.8	0.8	3
SLIDING-COMBINED STATIC+EARTHQUAKE	1.0	0.8	0.8	3
BEARING-STATIC	0.55	0.55	0.55	4
BEARING-COMBINED STATIC+EARTHQUAKE	0.8	0.8	0.8	4
PULLOUT RESISTANCE				
STATIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
COMBINED STATIC/EARTHQUAKE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
TENSILE RESISTANCE OF METALLIC REINFORCEMENTS AND CONNECTORS				
STATIC -STRIP REINFORCEMENT -GRID REINFORCEMENT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
COMBINED STATIC/EARTHQUAKE -STRIP REINFORCEMENT -GRID REINFORCEMENT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
TENSILE RESISTANCE OF GEOSYNTHETIC REINFORCEMENTS AND CONNECTORS				
STATIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
COMBINED STATIC/EARTHQUAKE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	

NOTES FOR TABLE 1

NO.	NOTE
1	A MAXIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. A HIGHER FRICTION ANGLE THAN 34 DEGREES CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES. INDEPENDENT TESTING MUST BE VERIFIED ANNUALLY.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. IN ORDER TO UTILIZE FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING.
2	THESE VALUES WILL BE PROVIDED IN TABLES 2 AND/OR 3.
3	PASSIVE RESISTANCE SHALL NOT BE CONSIDERED IN EVALUATION OF SLIDING RESISTANCE. NO SHEAR KEYS NOR DOWELS WILL BE PERMITTED. FOR CAST-IN-PLACE CONCRETE CANTILEVER WALLS, THE FOOTING SHALL BE UNIFORM IN THICKNESS THROUGHOUT THE DESIGN SECTION.
4	FOR ALL LIMIT STATES, THE DESIGN LOADING FOR THE MSE RETAINING WALL SYSTEM SHALL NOT EXCEED THE FACTORED GENERAL AND LOCAL BEARING RESISTANCE SPECIFIED IN TABLES 2 OR 3.

LIST OF STANDARD DRAWINGS

STD-1-ISS
W-CIP-1
W-MSE-1
W-MSE-2

CIP CANTILEVER DESIGN REQUIREMENTS

WALL TO BE DESIGNED TO RESIST IMPACT FORCES

MSE WALL DESIGN REQUIREMENTS

MOMENT SLAB REQUIRED.

CIP GRAVITY WALL DESIGN REQUIREMENTS

DESIGNER CAN ELECT TO CAST A MOMENT SLAB OR DESIGN THE WALL FOR IMPACT.

ALL COSTS ASSOCIATED WITH MOMENT SLAB TO BE INCLUDED IN THE COST OF THE RETAINING WALL.

WALL DESIGNER RESPONSIBLE FOR DRAINAGE BEHIND THE WALL.

INDEX OF DRAWINGS

INDEX OF DRAWINGS	DWG. NO.
RETAINING WALL (R1) CONCEPTUAL GEOTECHNICAL DESIGN NOTES & REQUIREMENTS	R-1
RETAINING WALL (R1) CONCEPTUAL GEOMETRIC LAYOUT	R-1A
RETAINING WALL (R1) CONCEPTUAL GEOTECHNICAL DESIGN NOTES & REQUIREMENTS	R-1B
RETAINING WALL (R1) DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS	R-1C

STATIONING NOTE

RIVERPORT ROAD STATION 23+18 ON THIS SHEET
EQUIVALENT TO ROADWAY PLANS RIVERPORT ROAD
STATION 113+18.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	R-1

REV. NO.	DATE	BY	DESCRIPTION
1	07/07/26	JAL	ADDED - TO SHEET NO. ADDED INDEX

TABLE 2-FOUNDATION PARAMETERS AND REQUIREMENTS FOR CIP CANTILEVER WALLS

WALL STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
RIVERPORT ROAD 23+18 TO 28+60	STIFF OR VERY STIFF CLAY SOIL	10,903	0.49

BASED ON ESTIMATED WIDTH OF 0.7H

TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR GRAVITY WALLS

WALL STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
RIVERPORT ROAD 23+18 TO 28+60	STIFF OR VERY STIFF CLAY SOIL	10,130	0.49

BASED ON ESTIMATED WIDTH OF 0.7H

TABLE 4-FOUNDATION PARAMETERS AND REQUIREMENTS FOR MSE WALLS

WALL STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
RIVERPORT ROAD 23+18 TO 28+60	STIFF OR VERY STIFF CLAY SOIL	11,117	0.49

BASED ON ESTIMATED WIDTH OF 0.75H

OTHER DESIGN REQUIREMENTS

FOR LEVEL GROUND SURFACES IN FRONT OF THE WALL A MINIMUM BOTTOM OF FOUNDATION EMBEDMENT DEPTH OF 2 FEET BELOW THE GROUND SURFACE AT THE FRONT FACE OF THE WALL WILL BE REQUIRED TO SATISFY FHWA MINIMUM WALL EMBEDMENT DEPTH REQUIREMENTS AND FOR GLOBAL STABILITY. IF THE WALL IS TO BE CONSTRUCTED ON A SLOPE, A FOUR FOOT BENCH SHALL BE CONSTRUCTED IN FRONT OF THE WALL AND THE WALL FOOTING SHALL BE EMBEDDED 3 FEET BELOW THE BENCH LEVEL.

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALL. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS AND COSTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WALL.

IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

ALL WALL ELEMENTS SHALL BE WITHIN TDOT ROW.

ALL CONSTRUCTION MUST STAY WITHIN TDOT ROW AND CONSTRUCTION EASEMENT.

IF A STEEPER THAN 1:1 BACKSLOPE IS REQUIRED BEHIND RETAINING WALL OR TEMPORARY SHORING, THE EFFECTIVE FRICTION ANGLE FOR SELECT BACKFILL WILL NOT BE ALLOWABLE FOR DESIGN AND THE EFFECTIVE FRICTION ANGLE FOR UNCLASSIFIED SITE OR BORROW SOIL SHALL BE USED.

THE CONTRACTOR SHALL COORDINATE AND PERFORM ALL UTILITY RELOCATION SO THAT IT DOES NOT INTERFERE WITH THE RETAINING WALL INSTALLATION.

USE EPOXY COATED REINFORCING STEEL FOR THE FOOTING DOWEL BARS IN THE BACK FACE OF THE RETAINING WALL. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RETAINING WALL.

WHEN A PARAPET ON TOP OF RETAINING WALL IS REQUIRED AND MSE WALL SYSTEM IS SELECTED, A MOMENT SLAB WILL BE REQUIRED AND PAID FOR IN THE UNIT PRICE BID OF THE RETAINING WALL. DESIGN OF THE MOMENT SLAB IS THE RESPONSIBILITY OF THE WALL SYSTEM COMPANY. MOMENT SLAB IS TO BE DESIGNED BY A TENNESSEE LICENSED ENGINEER AND SUBMITTED WITH THE WALL DESIGN.

PAYMENT FOR ANY ITEMS REQUIRED FOR ACCESS TO AND CONSTRUCTION OF THE WALL (INCLUDING TEMPORARY SHORING, EXCAVATION, AND BACKFILLING) SHALL BE INCLUDED WITH THE SQUARE FOOT RETAINING WALL PAY QUANTITY.

ALL EXPOSED SURFACES OF THE RETAINING WALL SHALL BE STAINED SO THAT THEY APPEAR UNIFORM IN COLOR. THE COLOR SHALL BE MOUNTAIN GRAY, FEDERAL SPECIFICATION NO. 36440, FEDERAL COLOR STANDARD 595B. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RETAINING WALL.

SEE LIST OF STANDARD DRAWINGS FOR FURTHER DESIGN REQUIREMENTS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL (R1)
CONCEPTUAL
GEOTECHNICAL
DESIGN NOTES &
REQUIREMENTS

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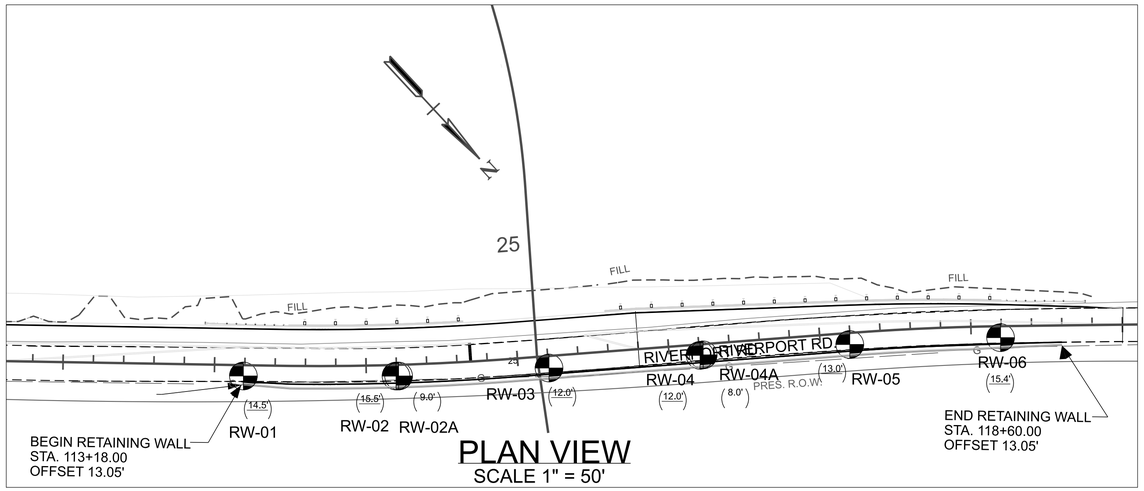
GES No. 8203324 / PIN 131034.00

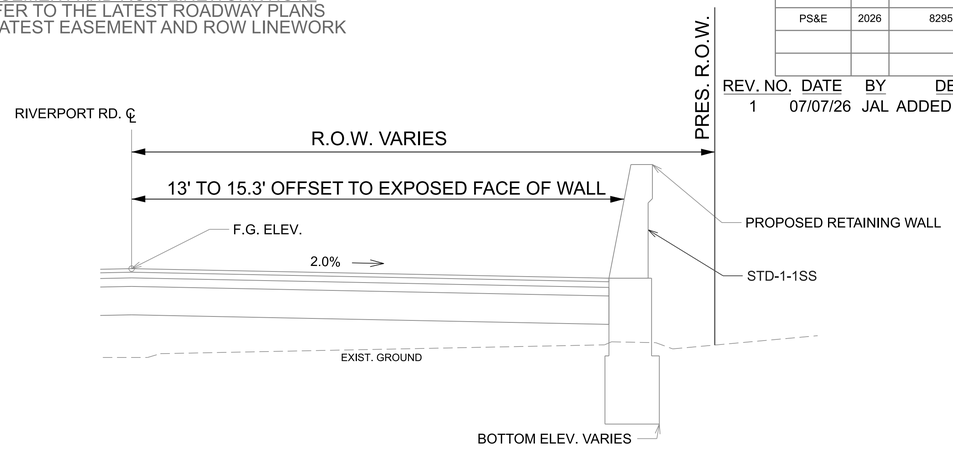
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	R-1A

REV. NO.	DATE	BY	DESCRIPTION
1	07/07/26	JAL	ADDED - TO SHEET NO.

EASEMENT AND ROW LINEWORK NOTE
REFER TO THE LATEST ROADWAY PLANS
FOR LATEST EASEMENT AND ROW LINEWORK



PLAN VIEW
SCALE 1" = 50'



TYPICAL RETAINING WALL SECTION
N.T.S.

LEGEND: BORING LOCATIONS

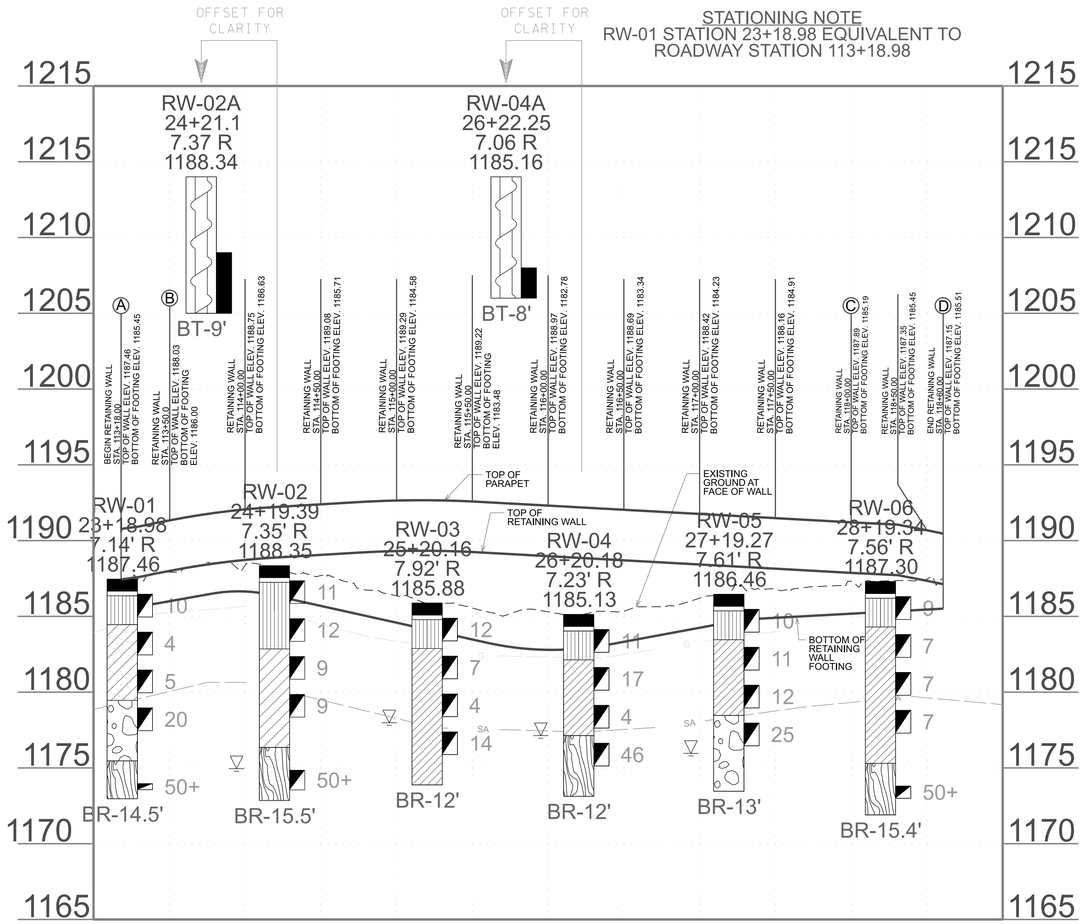
B-152 (24.5 / 70.3') - **BORING I.D.** - **DEPTH TO REFUSAL (ABOVE LINE)** - **BOTTOM OF HOLE (BELOW LINE)**

B-152 (24.5) - **BORING I.D.** - **DEPTH TO REFUSAL**

B-152 (24.5) - **BORING I.D.** - **TERMINATION DEPTH (NO REFUSAL)**

ITEM NUMBER	DESCRIPTION	UNIT
604-07.01	RETAINING WALL 1 (S.F.)	2,200

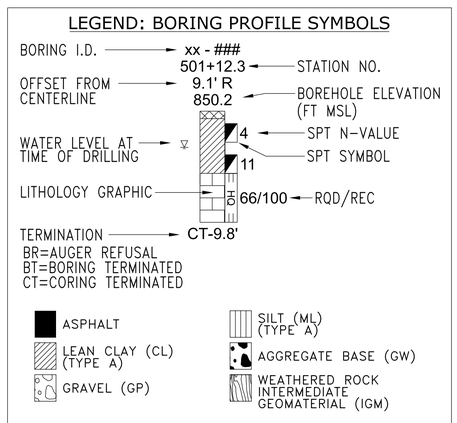
APPROXIMATELY 543' OF STD-1-1SS RAILING
COST TO BE INCLUDED IN COST OF RETAINING WALL



PROFILE VIEW
SCALE 1" = 50' HORIZ.
1" = 5' VERT.
*PROFILE FOLLOWS RIVERPORT RD. PROPOSED PROFILE

TABLE OF BORING LOCATIONS				
BORING	STATION	OFFSET	GROUND EL. MSL FT	ROCK EL. MSL FT
RW-01	23+18.98	7.14 RT	1187.46	1173.0
RW-02	24+19.39	7.35 RT	1188.35	1172.9
RW-02A	24+21.10	7.37 RT	1188.34	NO ROCK
RW-03	25+20.16	7.92 RT	1185.88	1173.9
RW-04	26+20.18	7.23 RT	1185.13	1173.1
RW-04A	26+22.25	7.06 RT	1185.16	NO ROCK
RW-05	27+19.27	7.61 RT	1186.46	1173.5
RW-06	28+19.34	7.56 RT	1187.30	1171.9

LEGEND: BORING PROFILE SYMBOLS



SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL (R1)
CONCEPTUAL
GEOMETRIC
LAYOUT

7/6/2026 8:19:19 AM
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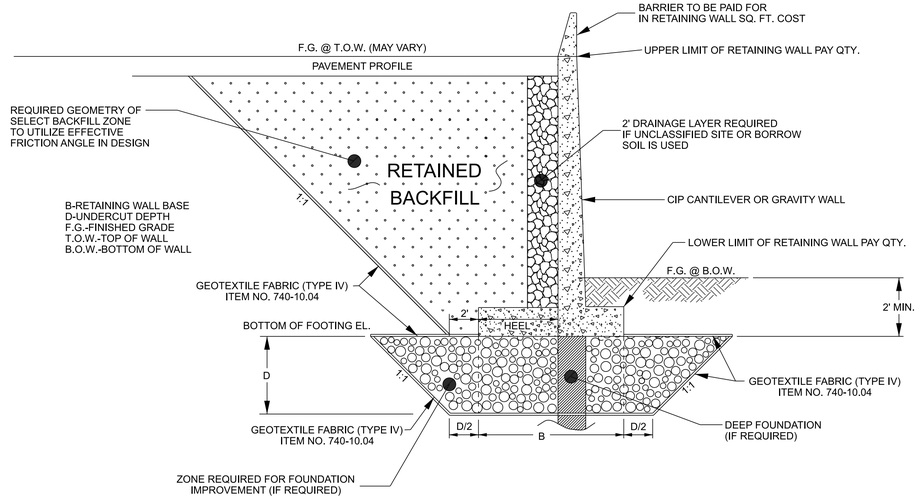
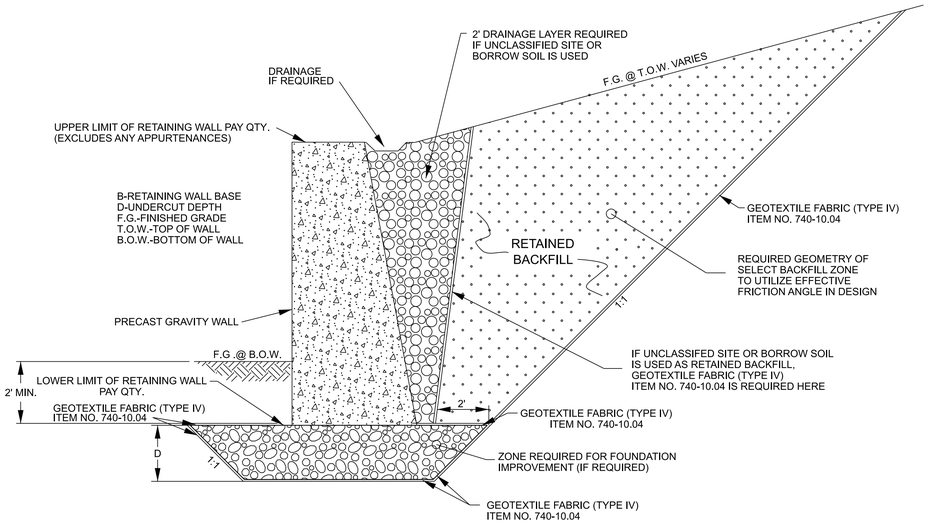
GES No. 8203324 / PIN 131034.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	R-1B

REV. NO.	DATE	BY	DESCRIPTION
1	07/07/26	JAL	ADDED - TO SHEET NO.



TYPICAL DETAIL
CIP CONCRETE CANTILEVER WALL
BARRIER REQUIRED



TYPICAL DETAIL
PRECAST GRAVITY WALL

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GES No. 8203324 / PIN 131034.00

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL (R1)
CONCEPTUAL
GEOTECHNICAL
DESIGN NOTES &
REQUIREMENTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	R-1C

REV. NO.	DATE	BY	DESCRIPTION
1	07/07/26	JAL	REMOVED REFERENCES ADDED - TO SHEET NO.

DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS

A. SOIL MATERIAL
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS. THIS MATERIAL WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

B. SOLID ROCK MATERIAL
SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS. THIS MATERIAL WOULD HAVE A SIGNIFICANT SWELL FACTOR AS GIVEN IN SWELL FACTORS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

C. SOFT ROCK OR DEGRADABLE ROCK
THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS. THIS MATERIAL WOULD HAVE A RELATIVELY SMALL SHRINK OR SWELL FACTOR DEPENDING ON THE TYPE MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

D. TRANSITIONAL MATERIALS
THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIALS A, B, AND C) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL (R1)
DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Geneva Dowdy

Digitally signed by Geneva Dowdy
DN: CN=Geneva Dowdy, E=gdowdy@BARGEDESIGN.COM, O=BARGE DESIGN SOLUTIONS, C=US
Reason: I am approving this document
Date: 2026.07.07 10:05:34-04'00'

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BARGE DESIGN SOLUTIONS
520 WEST SUMMIT HILL DRIVE, SUITE 1202
KNOXVILLE, TN 37902
GENEVA DOWDY, P.E. NO.125987

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	SIGNAL-SIGN1
ESTIMATED SIGNAL QUANTITIES	SIG-1
SIGNAL NOTES	SIG-2
SIGNAL LAYOUT	SIG-3
SIGNAL DETAILS	SIG–4

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	SIGNAL-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Geneva Dowdy

Digitally signed by Geneva Dowdy
DN: CN=Geneva Dowdy, E=geneva.dowdy@bargedesignsolutions.com, O=BARGE DESIGN SOLUTIONS, C=US
Reason: I am approving this document
Date: 2026.07.07 10:05:31-04'00'

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520 WEST SUMMIT HILL DRIVE, SUITE 1202
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	SIGNAL-SIGN2
ESTIMATED SIGNAL QUANTITIES	SIG-1

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	SIGNAL-SIGN2

REV. 07-07-26: ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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INDEX OF SHEETS

SIGNATURE SHEET SIGNAL-SIGN1
SIGNATURE SHEET SIGNAL-SIGN2
ESTIMATED SIGNAL QUANTITIES SIG-1
SIGNAL NOTES SIG-2
SIGNAL LAYOUT SIG-3
SIGNAL DETAILS SIG-4

ESTIMATED SIGNAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 82956-3594-04
(1)	713-14.21	STREET NAME SIGN (RIGID 0.100IN THICK)	S.F.	72
(2)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.20	SIGNS (R10-12A, (30"X36"))	EACH	2
(3)	714-09.47	LED LUMINAIRES (RELOCATE EXISTING)	EACH	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	9
	730-02.59	SIGNAL HEAD ASSEMBLY (140 A4F WITH BACKPLATE)	EACH	2
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	4
(4)	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	600
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1675
	730-08.04	SIGNAL CABLE - 9 CONDUCTOR	L.F.	150
(5)	730-12.23	CONDUIT 2" DIAMETER (DIRECTIONAL BORE)	L.F.	675
	730-12.26	CONDUIT 2" DIAMETER (PVC SCHEDULE 80)	L.F.	125
	730-12.27	CONDUIT 3" DIAMETER (PVC SCHEDULE 80)	L.F.	20
(6)	730-13.02	VEHICLE DETECTOR (VIDEO)	EACH	4
(7)	730-15.07	CABINET (TS2, TYPE 1 (BASE MOUNTED))	EACH	1
(8)	730-16.04	CONTROLLER (ATC)	EACH	1
	730-17.01	INSTALL MODEM	EACH	1
(9)	730-23.28	PEDESTAL POLE (TYPE A)	EACH	1
(9)	730-23.64	CANTILEVER SIGNAL SUPPORT (1 ARM @ 30')	EACH	1
(9),(10)	730-23.80	CANTILEVER SIGNAL SUPPORT (1 ARM @ 40')	EACH	1
(9)	730-25.07	CANTILEVER SIGNAL SUPPORT (1 ARM @ 55')	EACH	1
(9)	730-25.11	CANTILEVER SIGNAL SUPPORT (1 ARM @ 60')	EACH	1
	730-26.06	PEDESTRIAN PUSHBUTTON POST	EACH	1
(11)	730-26.11	COUNTDOWN PED SGNL HEAD W/AUDIBLE PUSHBUTTON & 15IN SIGN	EACH	4
	730-35.06	BATTERY BACK-UP SYSTEM	EACH	1

FOOTNOTES

(1) PAY ITEM TO BE USED FOR THE MATERIAL AND INSTALLATION OF OVERHEAD STREET NAME SIGNS AS DETAILED IN THE SIGNAL PLANS.

(2) PAY ITEM TO BE USED FOR REMOVAL OF ALL EXISTING SIGNAGE THAT WILL CONFLICT WITH THE PROPOSED SIGNALIZED INTERSECTION AS SHOWN IN THE PLANS.

(3) PAY ITEM SHALL BE STREETWORKS OFFSET FIXTURE PER AEP REQUIREMENTS AND INCLUDE ALL NECESSARY MOUNTING HARDWARE. PAY ITEM SHALL ALSO INCLUDE ANY MODIFICATION TO ELECTRICAL SERVICE THAT IS NECESSARY TO INSTALL A FULLY FUNCTIONAL LUMINAIRE ON THE PROPOSED SIGNAL POLE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY (AEP) TO OBTAIN THE ESTIMATE FOR ANY CHANGES BY THE UTILITY FOR PROVIDING MODIFIED ELECTRICAL SERVICE TO NEW LUMINAIRE. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR THIS PAY ITEM FOR PAYMENT BY THE CONTRACTOR. ITEM TO INCLUDE ANY AND ALL NECESSARY HARDWARE REQUIRED FOR THE ELECTRICAL SERVICE MODIFICATION INCLUDING BUT NOT LIMITED TO A TYPE C LIGHTING PULLBOX.

(4) PAY ITEM IS FOR ELECTRICAL SERVICE CABLE AND ANY MODIFICATION TO THE SERVICE THAT IS NECESSARY FOR A FULLY FUNCTIONAL NEW TRAFFIC SIGNAL. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY (AEP) TO OBTAIN THE ESTIMATE FOR ANY CHANGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR ITEM 730-05.01 FOR PAYMENT BY THE CONTRACTOR. ITEM TO INCLUDE 1-2C #6 CABLE FROM ELECTRICAL SERVICE TO CONTROLLER. INCLUDES A 50 AMP, 2 POLE WEATHER PROOF EXTERNAL DISCONNECT. ENCLOURSE SHALL BE METALLIC WITH A 50 AMP SINGLE POLE CIRCUIT BREAKER.

(5) PAY ITEM SHALL BE HDPE CONDUIT.

(6) DETECTION SHALL BE ECONOLITE VIDEO DETECTION UNITS. INCLUDES ALL VIDEO UNITS, HARDWARE, SOFTWARE, MOUNTING ASSEMBLIES, DETECTOR LEAD-IN CABLE, AND ALL RELATED EQUIPMENT TO PROVIDE ALL DETECTION ZONES SHOWN IN THE PLANS.

(7) PAY ITEM SHALL BE ECONOLITE TS2 TYPE 1 BASE MOUNTED CABINET. CABINET SHALL BE POWDER COATED BLACK IN FINISH PER CITY OF KINGSPORT STANDARDS.

(8) PAY ITEM SHALL BE ECONOLITE ATC CONTROLLER AND RENO MALFUNCTION MANAGEMENT UNIT (MMU).

(9) POLE(S) SHALL BE POWDER COATED BLACK IN FINISH PER CITY OF KINGSPORT STANDARDS.

(10) POLE SHALL BE 40' IN HEIGHT FOR LUMINAIRE MOUNTING AS SHOWN IN THE PLANS.

(11) PAY ITEM SHALL BE CAMPBELL ACCESSIBLE PEDESTRIAN SIGNALS (APS) SYSTEM.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	SIG-1
PS&E	2026	82956-3594-04	SIG-1

REV. 07/07/26
PAY ITEM 714-08.32 MOVED TO LIGHTING QUANTITIES.

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DEPARTMENT OF TRANSPORTATION

ESTIMATED
SIGNAL
QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	SIG-2
PS&E	2026	82956-3594-04	SIG-2

SIGNAL NOTES

GENERAL

(1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVIENIENCE OF THE GENERAL PUBLIC AND RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

(2) ALL CONSTRUCTION EQUIPMENT AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AS AMENDED) AND WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL MUNICIPALITY HAVING JURISDICTION. SIGNAL INSTALLATION SHALL COMPLY WITH SECTION 730-TRAFFIC SIGNALS. ALL PAVEMENT MARKINGS SHALL COMPLY WITH SECTION 716-PAVEMENT MARKINGS. PAVEMENT MARKING REMOVAL AND TRAFFIC CONTROL SHALL COMPLY WITH SECTION 712-TEMPORARY TRAFFIC CONTROL.

(3) ALL TRAFFIC SIGNAL AND SIGN INSTALLATION PROCEDURES AND EQUIPMENT SHALL MEET THE CURRENT EDITION OF THE MANUAL ON TRAFFIC CONTROL DEVICES (MUTCD) WHICH SUPERCEDES STANDARD DRAWINGS WHERE THERE IS A CONFLICT.

(4) THE TRAFFIC SIGNAL SHALL BE PLACED IN FLASH OPERATION FOR A MINIMUM OF SEVEN (7) DAYS BUT A MAXIMUM OF (14) DAYS PRIOR OPERATION UNLESS OTHERWISE NOTED.

(5) ANY SIGNAL HEADS VISIBLE TO DRIVERS BUT NOT OPERATIONAL SHALL BE COMPLETELY COVERED.

(6) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(7) MAST ARMS SHALL BE IN ACCORDANCE WITH TDOT STANDARDS FOR STRUCTURAL SUPPORTS.

UTILITIES

(8) THE SIGNAL INSTALLATION SHALL MEET THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND LOCAL UTILITY REQUIREMENTS FOR CLEARANCES AND ATTACHEMENT HEIGHTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL UTILITIES FOR ANY ADJUSTMENT OR RELOCATION WORK REQUIRED.

(9) THE CONTRACTOR WILL PROVIDE ALL NECESSARY MEASURES TO SAFEGUARD EXISTING UTILITES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES. THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.THE COST OF PROTECTING UTILITES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(10) PRIOR TO SUBMITTING THEIR BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED "AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTORS OPERATIONS.

(11) THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS. ELECTRICAL CONNECTIONS SHOULD BE COORDINATED WITH THE APPROPRIATE LOCAL UTILITY.

(12) PROPER CLEARANCES BETWEEN SIGNAL POLES/CABLES AND EXISTING UTILITY LINES SHALL BE MAINTAINED.

TRAFFIC SIGNAL POLES

(13) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1 AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

(14) THE PROPOSED LOCATION OF THE SIGNAL SUPPORT POLES, AS SHOWN ON THESE PLANS, IS APPROXIMATE. SOME FIELD ADJUSTMENTS MAY BE REQUIRED IN ORDER TO AVOID CONFLICTS WITH EITHER UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND STAKING THE OPTIMUM LOCATION FOR THE POLES AND FOR RECEIVING APPROVAL FROM THE CITY OF KINGSPORT AND THE APPROPRIATE UTILITIES BEFORE INSTALLATION BEGINS. THE ENGINEER SHALL BE ADVISED BY THE CONTRACTOR OF ANY FIELD ADJUSTMENTS TO POLE LOCATIONSTO VERIFY THAT SUCH CHANGES ARE STRUCTURALLY POSSIBLE. PROPER ROAD SIDE CLEAR ZONES SHALL BE OBSERVED.

(15) SHAFTS FOR FOOTINGS SHALL BE DRILLED THROUGH FIRM, UNDISTURBED, UNSATURATED SOIL AND SHALL BE VISUALLY INSPECTED BY THE ENGINEER OR ENGINEERING REPRESENTITIVE PRIOR TO PLACEMENT OF REINFORCEMENT. THE ENGINEER OR ENGINEERING REPRESENTITIVE SHALL BE ADVISED BY THE CONTRACTOR OF ANY GROUND WATER OR LOOSE SOIL ENCOUNTERED DURING DRILLING.

(16) THE CONTRACTOR AND /OR POLE FABRICATOR SHALL DETERMINE THE SIZE AND DESIGN OF ALL STEEL SIGNAL SUPPORT POLE(S) AND FOUNDATION(S). SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND TO THE CITY OF KINGSPORT FOR REVIEW AND APPROVAL PRIOR TO ORDERING. FOUNDATIONS ARE TO CONFORM TO TDOT STANDARD DRAWINGS.

(17) NEW TRAFFIC SIGNAL SUPPORT POLE(S) SHALL BE ROUND, TAPERED STEEL STRAIN POLES WITH MAST ARM(S) IN ACCORDANCE WITH TDOT STANDARD DRAWINGS. MAST ARMS SHALL BE GALVANIZED STEEL WITH BLACK POWDER COAT PAINT USING HIGH DURABLE POLYESTER RESIN MEETING AAMA 2064 (AMERICAN ARCHITECTURAL MANUFACTURER'S ASSOCIATION 5 YEAR STANDARD) STANDARDS FOR GLOSS AND COLOR RETENTION. SIGNAL BACK PLATES, HOUSING, AND VISORS SHALL BE CONSTRUCTED OF BLACK NON-REFLECTIVE ALUMINUM OR STEEL.

(18) ALL FOUNDATIONS SHALL HAVE A SPARE TWO (2) INCH STUB-OUT PARALLEL TO THE ROAD (POLES AND CONTROLLER).

(19) NO GROUT SHALL BE PLACED AT THE BASE OF STEEL POLE BETWEEN THE POLE BASE AND FOUNDATION. BASE OF POLE SHALL REMAIN OPEN TO PERMIT DRAINAGE AND AIR CIRCULATION.

TRAFFIC SIGNAL HEADS

(20) TRAFFIC SIGNAL HEADS (VEHICLE AND PEDESTRIAN) SIGNAL HEAD PLACEMENT SHALL BE IN ACCORDANCE WITH TDOT STANDARD DRAWINGS.

(21) ALL NEW TRAFFIC SIGNAL HEADS SHALL BE FABRICATED FROM ALUMINUM.

(22) ALL NEW TRAFFIC SIGNAL HEAD INDICATIONS SHALL HAVE 12 INCH LED FACES.

(23) THE ENTIRE SIGNAL HEAD SHALL BE BLACK IN COLOR.

(24) ALL VEHICLE SIGNAL HEADS SHALL HAVE A MULTI-PIECE, VACUUM-FORMED, BLACK PLASTIC, LOUVERED BACKPLATE, WITH YELLOW REFLECTIVE TAPE AROUND THE EDGES.

(25) IF FIELD ADJUSTMENTS RESULT IN CHANGES TO SIGNAL HEAD PLACEMENT, ATTACHMENT HEIGHT OR MAST ARM LENGTH, THE ENGINEER SHALL BE RE-EVALUATED TO VERIFY THAT THE CHANGES ARE STRUCTUALLY ACCEPTABLE.

CABINET AND CONTROLLER

(26) THE CABINET SHALL BE 16-PHASE TS2 TYPE 1 BASEMOUNTED.

(27) THE TRAFFIC SIGNAL CONTROLLER FURNISHED BY THE CONTRACTOR SHALL BE COMPLETE WITH ALL INCIDENTAL AND AUXILIARY EQUIPMENT (CONFLICT MONITOR, HARDWARE AND CABINET) NECESSARY FOR INSTALLATION AND OPERATION EITHER AS AN ISOLATED LOCATION OR AS PART OF A SYSTEM OF INTERSECTIONS. ALL WIRING AND EQUIPMENT TO ACTIVATE THE SIGNAL HEADS AND OPERATE THE TRAFFIC SIGNAL AS SPECIFIED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.

(28) THE CONTROLLER SHALL BE AN ECONOLITE COBALT ATC CONTROLLER CAPABLE OF PROVIDING FULLY ACTUATED OPERATION, CONTAINING A ETHERNET COMMUNICATIONS INTERFACE, AND COMPLETE WITH ALL SOFTWARE, FIRMWARE AND CABINET.CONNECTIONS TO ALLOW THE SIGNAL TO OPERATE.

(29) CONSTRUCT CABINET AND FOUNDATION IN ACCORDANCE WITH TDOT STANDARD DRAWING T-SG-5.

CONDUIT

(30) ALL CONDUITS SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. A PULL STRING IS TO BE PROVIDED IN EACH CONDUIT FROM JUNCTION TO JUNCTION.

(31) CONDUIT SHALL BE LAID AT A MINIMUM DEPTH OF 24 INCHES BELOW FINISHED GRADE AND SHALL COMPLY WITH TDOT TRENCHING DETAILS AND CONDUIT PLACEMENT.

(32) THE CONTRACTOR SHALL SEAL ALL OPEN CONDUIT ENTRANCE HOLES. WITH OR WITHOUT CABLES, WITH CONDUIT DUCT SEAL PUTTY. WHERE CABLES ENTER THE CONDUIT, THE SEALANT SHALL BE APPLIED AFTER INSTALLING THE CABLE. THESE LOCATIONS SHALL CONSIST OF CONDUIT ENDS AND PULL BOXES, CABINET BASES AND WEATHER-HEADS.

ELECTRICAL SERVICE

(33) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL SERVICE TO THE SITE.

(34) CONTRACTOR SHALL INSTALL A 50 AMP, 2 POLE WEATHERPROOF EXTERNAL DISCONNECT ON THE POLE WITH AC SERVICE CONNECTION. ENCLOSURE SHALL BE METALLIC WITH A 50 AMP SINGLE POLE CIRCUIT BREAKER.

LIGHT EMITTING DIODES (LED)

(35) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(36) CIRCULAR INDICATIONS SHALL MEET "ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT" FOR EXPANDED/EXTENDED VIEW.

(37) ARROW INDICATIONS SHALL MEET "ITE VTCSH-3 LED ARROW SPECIFICATON" FOR EXPANDED/EXTENDED VIEW.

(38) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

(39) COMPATABILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(40) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

SEALED BY

GENEVA DOWDY
REGISTERED ENGINEER
AGRICULTURE
No. 125981
STATE OF TENNESSEE
5/7/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL NOTES

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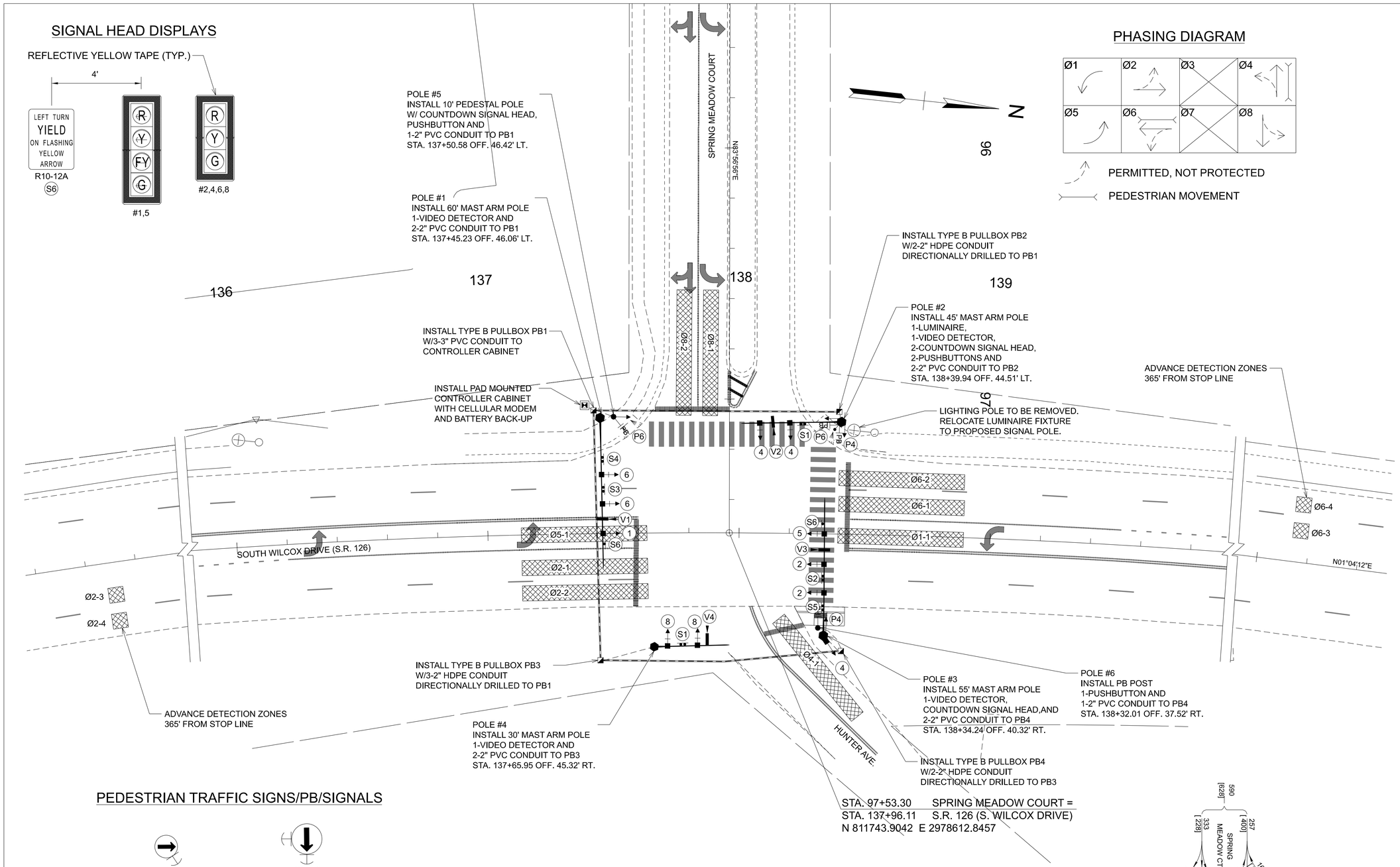
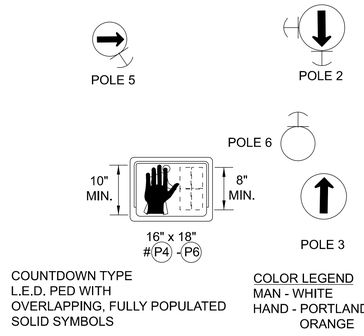
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	SIG-1
PIH	2025	82956-3594-04	SIG-3
PS&E	2026	82956-3594-04	SIG-3

SIGNAL HEAD DISPLAYS

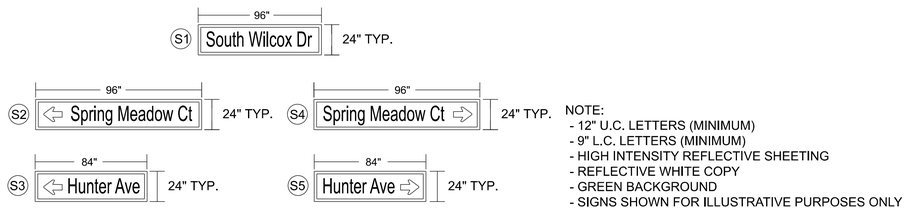
PHASING DIAGRAM



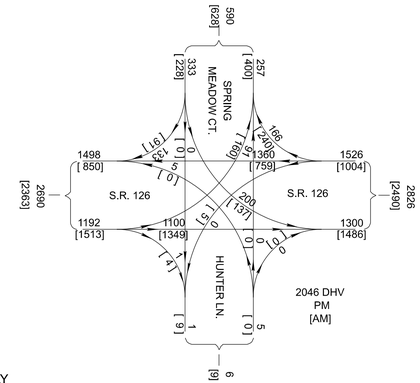
PEDESTRIAN TRAFFIC SIGNS/PB/SIGNALS



OVERHEAD STREET NAME SIGNS



NOTE:
- 12" U.C. LETTERS (MINIMUM)
- 9" L.C. LETTERS (MINIMUM)
- HIGH INTENSITY REFLECTIVE SHEETING
- REFLECTIVE WHITE COPY
- GREEN BACKGROUND
- SIGNS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY
- SIGNS S2 AND S4 ARE SERIES B FONT



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GENEVA DOWDY
REGISTERED ENGINEER
AGRICULTURE
CERTIFICATE NO. 125967
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL LAYOUT

SOUTH WILCOX DRIVE (SR126) AT
SPRING MEADOW COURT/HUNTER LANE
SCALE: 1" = 20'

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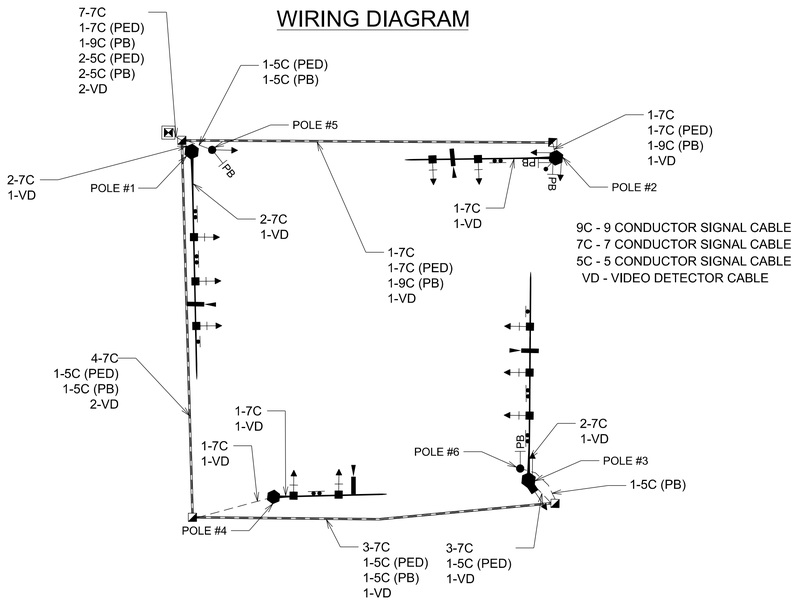
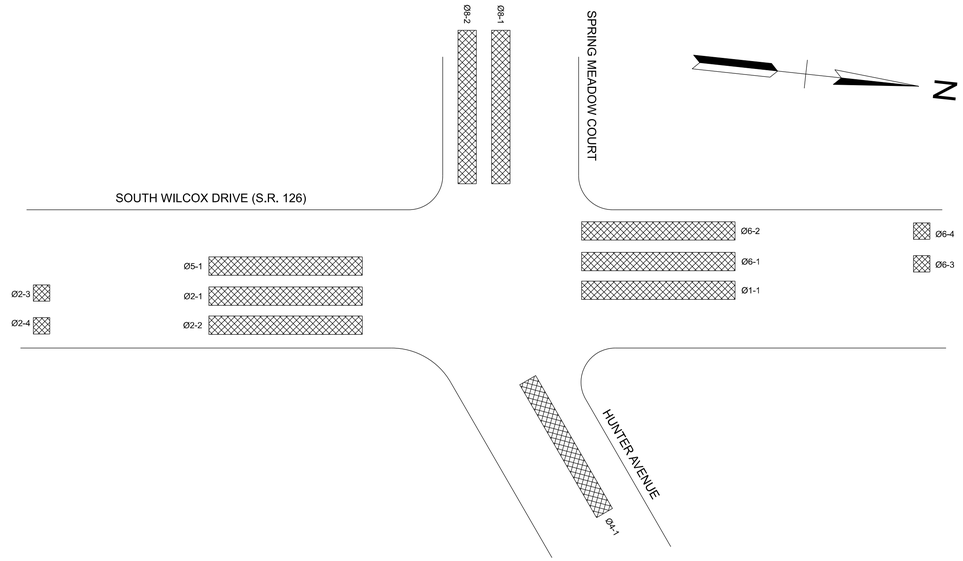
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	82956-2594-04	SIG-2
PIH	2026	82956-3594-04	SIG-4
PS&E	2026	82956-3594-04	SIG-4

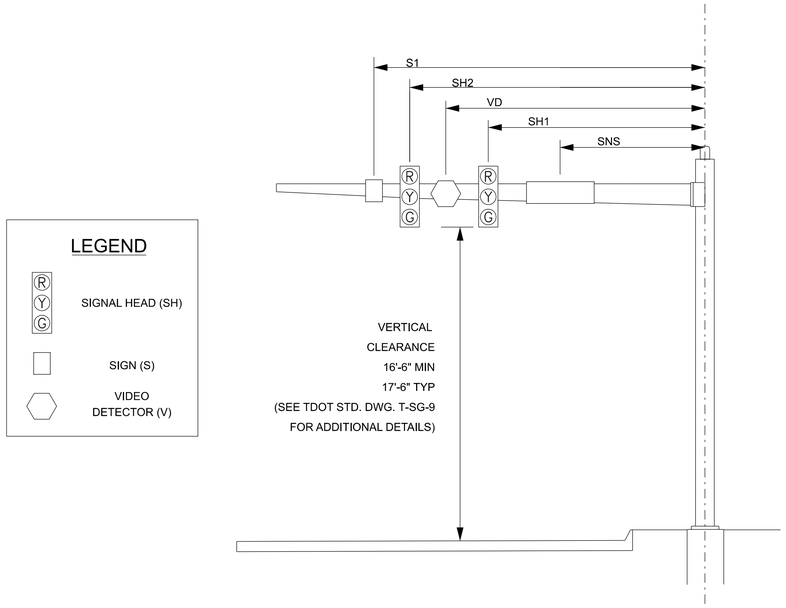
WIRING DIAGRAM



VIDEO DETECTION DIAGRAM



SIGNAL POLE AND MAST ARM DETAILS



BASIC SIGNAL TIMINGS

TIMING FUNCTION	PHASE TIME INTERVAL (SECONDS)							
	1	2	3	4	5	6	7	8
MINIMUM GREEN (INITIAL)	5	15		10	5	15		10
EXTENSION (PASSAGE)	3	3		3	3	3		3
MAXIMUM GREEN I	25	50		25	25	50		25
MAXIMUM GREEN II								
YELLOW CLEARANCE	4.0	5.0		4.0	4.0	5.0		4.0
ALL RED CLEARANCE	2.0	2.0		2.5	2.0	2.0		2.5
PEDESTRIAN WALK				7		7		
PEDESTRIAN CLEARANCE				20		22		

SIGNAL HEAD ASSIGNMENT

SIGNAL HEAD	PHASE(S)	FLASHING MODE
1	Ø1	Y
2	Ø2	Y
4	Ø4	R
5	Ø5	Y
6	Ø6	Y
8	Ø8	R
8A	Ø8	R

VIDEO DETECTION ASSIGNMENTS

ZONE ASSIGNMENT	CAMERA	SIZE	MODE	DISTANCE FROM STOP LINE
Ø1-1	V1	6X50	PRESENCE	-5'
Ø2-1	V3	6X50	PRESENCE	-5'
Ø2-2	V3	6X50	PRESENCE	-5'
Ø2-3	V3	6X6	PULSE	365'
Ø2-4	V4	6X6	PULSE	365'
Ø4-1	V2	6X50	PRESENCE	-5'
Ø5-1	V3	6X50	PRESENCE	-5'
Ø6-1	V1	6X50	PRESENCE	-5'
Ø6-2	V1	6X50	PRESENCE	-5'
Ø6-3	V1	6X6	PULSE	365'
Ø6-4	V1	6X6	PULSE	365'
Ø8-1	V4	6X50	PRESENCE	-5'
Ø8-2	V4	6X50	PRESENCE	-5'

SIGNAL SUPPORT POLE DATA AND MAST ARM DETAILS

POLE	STATION	OFFSET	NORTHING	EASTING	ELEVATION	ARM LENGTH	SH1	SH2	SH3	SNS	SNS	S1	VD
1	137+45.23	46.06' LT.	811687.7929	2978572.8050	1238.39	60'	22'-4"	34'-0"	45'-10"	16'-4"	28'-2"	50'-0"	39'-11"
2	138+39.94	44.51' LT.	811783.6126	2978564.1753	1238.81	45'	20'-7"	32'-7"		15'-5"			27'-3"
3	138+34.24	40.32' RT.	811785.4867	2978649.5066	1236.62	55'	17'-0"	28'-5"	40'-6"	11'-0"	22'-11"	44'-6"	34'-2"
4	137+65.95	45.32' RT.	811719.0519	2978661.1339	1238.37	30'	5'-4"	17'-3"		11'-5"			21'-3"
5	137+50.58	46.42' LT.	811694.1404	2978572.8117	1237.18	0'	-	-	-	-	-	0'-0"	-
6	138+32.01	37.52' RT.	811782.9963	2978646.7158	1236.73	0'	-	-	-	-	-	0'-0"	-

POLE 2 SHALL BE 45' IN HEIGHT FOR LUMINAIRE MOUNTING. POLE 5 SHALL BE A PEDESTAL POLE. POLE 6 SHALL BE A PUSHBUTTON POST.

SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL DETAILS

SOUTH WILCOX DRIVE (SR126) AT SPRING MEADOW COURT/HUNTER LANE
N.T.S.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	01
PS&E	2026	82956-3594-04	

SWPPP INDEX OF SHEETS

DESCRIPTION	SHT.
1. SWPPP REQUIREMENTS (5.0.)	1
2. SITE DESCRIPTION (5.5.1.)	1
3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)	1
4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	1-2
5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)	3-3
6. FLOCCULANTS (3.5.3.1.b)	3
7. UTILITY RELOCATION	4-4
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9. SITE ASSESSMENTS (5.5.3.8.)	5
10. STORMWATER MANAGEMENT (5.5.3.11.h)	5-5
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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☒ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☐ YES ☒ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☐ YES (CHECK ALL THAT APPLY BELOW) ☒ NO

- ☒ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 27.048 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 20.772 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: STATE INDUSTRIAL ACCESS SERVING EASTMAN CHEMICAL COMPANY
COUNTY: Sullivan, TN
PIN: 131034.00

2.5. SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET

2.6. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) 25-25G, DRAINAGE MAP SHEET(S) 20-21, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☐ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☒ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	**HSG**	**% OF SITE**	**ERODIBILITY (k value)**
Bellamy loam, 2 to 5 percent slopes	C	51.1%	0.37
Bloomingdale silty clay, 0to 2 percent slopes, occasionally flooded	B/D	5.2%	0.32
Montevallo channery silt loan, 12 to 20 percent slopes	D	5.2%	N/A
Montevallo channery silt loam, 20 to 35 percent slopes	D	9.1%	N/A
Montevallo channery silt, 35 to 50 percent slopes	D	2.4%	N/A
Pettyjon loam, 0 to 2 percent slopes, rarely flooded	B	14.9%	0.32
Steadman silty clay loam, 0 to 2 percent slopes, occasionally flooded	C	8.5%	0.37
Water	N/A	3.6%	N/A

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO

2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? ☐ YES ☐ NO; AND

2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/A (TDOT SP107L WILL BE APPLIED.)

2.13. **PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).**

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	**AREA(AC)**	**PERCENTAGE OF TOTAL AREA (%)**	**RUNOFF CN**	**C FACTOR**
IMPERVIOUS	**1.99**	**9.58**	**98**	**0.9**
PERVIOUS	**18.78**	**90.42**	**71**	**0.3**
TOTAL	**20.77**	**100%**	**---**	**---**
WEIGHTED CURVE NUMBER OR C-FACTOR =			**74**	**0.4**

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	**AREA(AC)**	**PERCENTAGE OF TOTAL AREA (%)**	**RUNOFF CN**	**C FACTOR**
IMPERVIOUS	**9.29**	**44.73**	**98**	**0.9**
PERVIOUS	**11.48**	**55.27**	**71**	**0.3**
TOTAL	**20.77**	**100%**	**---**	**---**
WEIGHTED CURVE NUMBER OR C-FACTOR =			**83**	**0.6**

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS N/A)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED).

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.13. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☐ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	South Fork Holston River	NO	NO	YES	YES
STR-2	South Fork Holston River	NO	NO	YES	YES
STR-3	Horse Creek	NO	NO	YES	YES
STR-4	South Fork Holston River	NO	NO	NO	NO
STR-5	Horse Creek	NO	NO	NO	NO
STR-6	Horse Creek	NO	NO	NO	NO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	
PS&E	2026	82956-3594-04	

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-7	Horse Creek	NO	NO	NO	NO
WTL-1/2	Horse Creek	N/A	NO	YES	YES
WTL-3	South Fork Holston R.	N/A	NO	YES	YES
WTL-4	South Fork Holston R.	N/A	NO	YES	YES
WTL-5	Horse Creek	N/A	NO	YES	YES
WTL-6/10	Horse Creek	N/A	NO	YES	YES
WTL-7	Horse Creek	N/A	NO	NO	NO
WTL-8	Horse Creek	N/A	NO	NO	NO
WTL-9	Horse Creek	N/A	NO	YES	YES
WTL-11	Horse Creek	N/A	NO	NO	NO
WTL-12	Horse Creek	N/A	NO	NO	NO
WTL-13	Horse Creek	N/A	NO	YES	YES
WTL-14	South Fork Holston R.	N/A	NO	YES	YES

4.1.4. RECEIVING WATERS OF THE US (NON STATE WATERS) (4.1.2). LIST ANY FEATURE THAT IS IDENTIFIED AS A WET WEATHER CONVEYANCE (TDEC) AND IDENTIFIED AS WATERS OF THE US BY THE ARMY CORPS OF ENGINEERS.

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US		
TDOT STATE WATER LABEL FROM EBR	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
N/A	N/A	N/A

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☒ YES ☐ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 25-25G.

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☒ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 15-FEET FOR ANY WET WEATHER CONVEYANCES IDENTIFIED AS WATERS OF THE US BY THE US ARMY CORPS OF ENGINEERS.

4.1.6. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (1.5.2.)

☒ YES ☐ NO

4.1.7. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1.) ☒ YES ☐ NO

IF YES, EXISTING CONDITIONS DESCRIPTION: YES, IN LOCATIONS OF EXISTING IMPERVIOUS SURFACES.

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.10. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☒ YES ☐ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☒YES ☐ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☐ YES ☒ NO ☐ N/A

4.2.6. A SEDIMENT BASIN, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACREs OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☒ YES ☐ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	**FROM STATION LT OR RT**	**TO STATION LT OR RT**	**TEMPORARY IMPACTS (AC)**	**PERMANENT IMPACTS (AC)**
WTL-1/WTL-2	RT 27+0.00	RT 35+0.00	0.126	1.306
WTL-3	LT 8.5+0.00	LT 10+0.00	N/A by others	N/A by others
WTL-4	LT 04+0.00	LT 07+0.00	N/A by others	N/A by others
WTL-5	LT 36+0.00	LT 36.5+0.00	No Impact	No Impact
WTL-6	RT 23+0.00	RT 25.5+0.00	No Impact	No Impact
WTL-10	RT 19.5+0.00	RT 23+0.00	No Impact	No Impact
WTL-13	RT 69+0.00	RT 70+0.00	No Impact	No Impact
WTL-14	RT 71+0.00	RT 72+00.00	No Impact	No Impact

WTL-3 AND WTL-4 WILL BE PERMITTED AND MITIGATED BY OTHERS

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☒ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☐ YES ☒ NO

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IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAS A THREE STAGED EPSC PLAN BEEN PREPARED FOR THE PROJECT (5.5.2.)?

YES ☒ NO ☐

PLEASE NOTE THAT A THREE STAGED EPSC PLAN IS REQUIRED FOR ALL TDOT PROJECTS FOR WHICH AN NPDES PERMIT IS REQUIRED.

5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (5.5.3.4.) (10. "STEEP SLOPE")? ☒ YES ☐ NO ☐ N/A

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 24 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.

5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.

5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.

5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 19 (5.5.3.1.j).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.3.).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (5.5.3.5.).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 2 WEEKS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (5.5.3.5.f).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 2 WEEKS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (5.5.3.4.).

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 1 WEEK AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (5.5.3.4.).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.5.3.5.)? ☐ YES ☒ NO

IF YES, THE FOLLOWING NOTES APPLY:

6.1. ENSURE THE FLOCCULANT EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE (5.5.3.5.). AND MEET THE FOLLOWING REQUIREMENTS:

6.1.1. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE (MILLIGRAM PER MOLE).

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

6.2. FLOCCULANT SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

6.3. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPS REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF FLOCCULANTS ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. FLOCCULANT EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR THIS PROJECT.

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

6.5. EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHODS SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN BUFFERS.

6.6. FLOCCULANT POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING OF THE FLOCCULANT POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

6.7. PREMIXING OF FLOCCULANT POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

6.8. FLOCCULANT LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

6.9. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT

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STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	
PS&E	2026	82956-3594-04	

APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☒ YES ☐ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC “LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL” COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC “LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES” COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR’S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 “INSPECTOR”) (5.5.1.f).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 “INSPECTOR”).

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE “DOCUMENTATION AND PERMITS” BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.

8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER

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USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (5.5.3.7.a).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (5.5.3.8.)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

10. STORMWATER MANAGEMENT (5.5.3.11.h)

10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (5.5.3.6.c): RIP-RAP IS PROPOSED AT SEVERAL STORMWATER OUTLETS PER TDOT STANDARDS.

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☒ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
☒ CONCRETE WASHOUT
☒ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
☒ MINERAL AGGREGATES, ASPHALT
☒ EARTH
☒ LIQUID TRAFFIC STRIPING MATERIALS, PAINT
☒ ROCK
☒ CURING COMPOUND
☐ EXPLOSIVES
☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. HAZARDOUS WASTE (5.5.3.7.c) (8.8)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (5.5.3.7.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☒ FERTILIZERS AND LIME
☒ PESTICIDES AND/OR HERBICIDES
☒ DIESEL AND GASOLINE
☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT (CHECK ALL THAT APPLY):

☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.
☒ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.
☒ WATER USED TO CONTROL DUST. (3.5.3.1.n)
☒ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.
☒ UNCONTAMINATED GROUNDWATER OR SPRING WATER.
☒ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
☐ OTHER: _____

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

11.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (5.5.1.g)?

☐ YES ☒ NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: _____

12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.4.4. ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

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12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.5. SPILL NOTIFICATION (6.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (7.2.1.) (7.2.1.):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS

RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (5.4.)

13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 1 WEEK BY THE PROJECT EPSC INSPECTOR.

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF PERMANENT STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (7.2.).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE PERMANENT STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (5.3.4.) (7.2.1.):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY

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ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (9.0.)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY PERMANENT STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE

13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN PERMANENTLY STABILIZED; AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE PERMANENT STABILIZATION IS MAINTAINED; AND

13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

Robbie Stephens

PRINTED NAME

Statewide Transportation Engineer

TITLE

May 4, 2026

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (1.5.2.)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT **(TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE)**:

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP	YES	NRS25.179	2/25/2031
CORPS OF ENGINEERS (USACE)	YES	LRN-2025-00171	10/31/2027
TVA 26A	N/A	N/A	N/A
TDEC CGP	YES		
OTHER:	N/A	N/A	N/A

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	S8
PS&E	2026	82956-3594-04	S8

17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1		LT 3+16.32	2.44	0.62			NO	NO	STR-4	
	1A	RT 3+11.72		0.14			NO	NO	STR-4	
	1B	RT 5+31.94		0.05			NO	NO	STR-4	
	1C	LT 10+32.39		0.04			NO	NO	STR-4	
	1D	RT10+36.37		0.09			NO	NO	STR-4	
	1E	LT 93+05.21		0.14			NO	NO	STR-4	
	1F	RT 92+60.21		0.07			NO	NO	STR-4	
	1G	RT 93+01.80		0.09			NO	NO	STR-4	
2		LT 5+07.00	1.61		4.77	4.77	NO	NO	STR-4	
	2A	LT 5+10.12			0.08	0.08	NO	NO	STR-4	
	2B	RT 5+10.00			0.06	0.06	NO	NO	STR-4	
	2C	LT 10+75.87			0.07	0.07	NO	NO	STR-4	
	2D	RT 10+76.32			0.08	0.08	NO	NO	STR-4	
	23	LT 92+74.71			0.11	0.11	NO	NO	STR-4	
	2F	RT 92+75.00			0.13	0.13	NO	NO	STR-4	
	2G	LT 11+50.00			0.05	0.05	NO	NO	STR-4	
	2H	RT 11+50.00			3.28	3.28	NO	NO	STR-4	
	2I	LT 12+75.00			0.13	0.13	NO	NO	STR-4	
	2J	RT 12+75.00			0.13	0.13	NO	NO	STR-4	
	2K	LT 16+20.00			0.19	0.19	NO	NO	STR-4	
	2L	RT 16+20.00			0.14	0.14	NO	NO	STR-4	
	2M	LT 18+50.00			0.28	0.28	NO	NO	STR-4	
	2N	RT 18+50.00			0.04	0.04	NO	NO	STR-4	
3		RT 24+25.00	0.98		0.15	0.15	NO	NO	STR-2	
	3A	LT 24+25.00			0.10	0.10	NO	NO	STR-2	
	3B	RT 24+25.00			0.05	0.05	NO	NO	STR-2	
4		RT 28+65.00	2.37		0.39	0.39	NO	NO	STR-2	
	4A	LT 28+65.00			0.07	0.07	NO	NO	STR-2	
	4B	RT 28+65.00			0.32	0.32	NO	NO	STR-2	
5		RT 33+88.00	1.34		0.91	0.91	NO	NO	STR-2	
	5A	RT 32+60.00			0.42	0.42	NO	NO	STR-2	
	5B	RT 33+48.00			0.07	0.07	NO	NO	STR-2	
	5C	RT 33+88.00			0.08	0.08	NO	NO	STR-2	
	5D	RT 34+28.00			0.12	0.12	NO	NO	STR-2	
	5E	LT 33+48.00			0.15	0.15	NO	NO	STR-2	
	5F	LT 33+88.00			0.03	0.03	NO	NO	STR-2	
	5G	LT 34+28.00			0.04	0.04	NO	NO	STR-2	
6		RT 37+41.00	1.72		0.92	0.92	NO	NO	STR-2	
	6A	RT 38+35.00			0.13	0.13	NO	NO	STR- 2	
	6B	LT 38+35.00			0.13	0.13	NO	NO	STR-2	

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DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	S9
PS&E	2026	82956-3594-04	S9

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
	6C	RT 40+50.00			0.16	0.16	NO	NO	STR-2	
	6D	LT 40+50.00			0.16	0.16	NO	NO	STR-2	
	6E	RT 42+90.00			0.17	0.17	NO	NO	STR-2	
	6F	LT 42+90.00			0.17	0.17	NO	NO	STR-2	
7		RT 53+00.00	1.57		0.89	0.89	NO	NO	STR-2	
	7A	LT 47+00.00			0.08	0.08	NO	NO	STR-2	
	7B	RT 47+00.00			0.12	0.12	NO	NO	STR-2	
	7C	RT 48+15.00			0.10	0.10	NO	NO	STR-2	
	7D	RT 49+30.00			0.10	0.10	NO	NO	STR-2	
	7E	LT 49+30.00			0.07	0.07	NO	NO	STR-2	
	7F	RT 53+00.00			0.22	0.22	NO	NO	STR-2	
	7G	LT 53+00.00			0.20	0.20	NO	NO	STR-2	
8		RT 53+50.00	0.50		1.03	1.03	NO	NO	STR-2	
	8A	LT 52+75.00			0.27		NO	NO	STR-2	
	8B	LT 54+51.00			0.76		NO	NO	STR-2	
9		RT 56+32.00	1.31		1.09	1.09	NO	NO	STR-2	
	9A	LT 55+80.00			0.15	0.15	NO	NO	STR-2	
	9B	LT 56+32.00			0.06	0.06	NO	NO	STR-2	
	9C	LT 56+80.00			0.08	0.08	NO	NO	STR-2	
	9D	LT 57+75.00			0.08	0.08	NO	NO	STR-2	
	9E	LT 58+75.00			0.08	0.08	NO	NO	STR-2	
	9F	LT 59+75.00			0.25	0.25	NO	NO	STR-2	
	9G	RT 59+75.00			0.08	0.08	NO	NO	STR-2	
	9H	RT 55+80.00			0.16	0.16	NO	NO	STR-2	
	9I	RT 56+32.00			0.06	0.06	NO	NO	STR-2	
	9J	RT 56+80.00			0.09	0.09	NO	NO	STR-2	
10		RT 72+25.00	1.83		1.22	1.22	NO	NO	STR-2	
	10A	LT 64+80.00			0.20	0.20	NO	NO	STR-2	
	10B	RT 64+80.00			0.12	0.12	NO	NO	STR-2	
	10C	LT 67+45.00			0.18	0.18	NO	NO	STR-2	
	10D	RT 67+45.00			0.18	0.18	NO	NO	STR-2	
	10E	LT 68+65.00			0.07	0.07	NO	NO	STR-2	
	10F	RT 68+65.00			0.07	0.07	NO	NO	STR-2	
	10G	LT 70+30.00			0.13	0.13	NO	NO	STR-2	
	10H	RT 70+30.00			0.04	0.04	NO	NO	STR-2	
	10I	LT 71+35.00			0.02	0.02	NO	NO	STR-1	
	10J	RT 71+35.00			0.10	0.10	NO	NO	STR-1	
	10K	RT 72+25.00			0.11	0.11	NO	NO	STR-1	
11		LT 15+17.71	4.75		0.51	0.51	NO	NO	STR-1	
12		RT 80+76.85	2.60		0.13	0.13	NO	NO	STR-1	
13		LT 80+76.85	3.33		0.21	0.21	NO	NO	STR-1	

STATE OF TENNESSEE
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STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	82956-3594-04	S10
PS&E	2026	82956-3594-04	S10

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
14		LT 36+52.96	0.85		0.96	0.96	NO	NO	STR-2	
15		LT 37+36.84	0.63		0.60	0.60	NO	NO	STR-2	
16		RT 37+90.00	0.50		0.42	0.42	NO	NO	STR-2	
17		LT 72+55.28	2.27		0.13	0.13	NO	NO	STR-2	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENN.	YEAR	SHEET NO.
	2026	U1-1
FED. AID PROJ. NO.	NA	
STATE PROJ. NO.	82956-3594-04	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

SULLIVAN COUNTY

SIA: State Industrial Access Serving
Eastman Chemical Company (GFT-22)

PS&E

UILITIES

STATE HIGHWAY NO. NA F.A.H.S. NO. NA

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITY OWNERS	U1 SERIES
ATMOS ENERGY	U2 SERIES
CITY OF KINGSPORT	U3 SERIES
CITY OF KINGSPORT	U4 SERIES
AEP - KINGSPORT POWER COMPANY	U5 SERIES
BRIGHTSPEED	U6 SERIES

UTILITIES IN ROADWAY CONTRACT

GAS:	ATMOS 2833 WEST MARKET ST. JOHNSON CITY, TN 37604 SETH BRADBURN (423) 440-4521 (MOVE IN STATE)	WATER:	CITY OF KINGSPORT 1213 KONNAROCK ROAD KINGSPORT, TN 37664 CHAD AUSTIN (423) 224-2509 (MOVE IN STATE)
SEWER:	CITY OF KINGSPORT 113 KONNAROCK ROAD KINGSPORT, TN 37664 CHAD AUSTIN (423) 224-2509 (MOVE IN STATE)	ELECTRIC:	AEP - KINGS PORT POWER COMPANY 420 RIVERPORT RD KINGSPORT , TN 578-2249 TOM HENSLEY (423) 360-7497 (MOVE IN STATE)
PHONE:	BRIGHTSPEED 101 NORTH ROAN STREET JOHNSON CITY, TN 37601 ANDREW ICE (423) 470-5636 (MOVE IN STATE)		

UTILITIES NOT IN ROADWAY CONTRACT

FIBER:	ENBRIDGE 1277 FORDTOWN ROAD KINGSPORT, TN 37663 ANTHONY WILSON (423) 307-8505 (NO CONFLICT)	COMM:	CHARTER 10417 WALLACE ALLEY ST. KINGSPORT, TN 37663 CHRISTOPHER M. SISK 865-221-9070 (NO CONFLICT)
PHONE:	AT&T 9733 PARKSIDE DRIVE KNOXVILLE, TN 37922 JAY FRAZIER (865) 387-2685 (NO CONFLICT)		

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY INDEX,
UTILITY OWNERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-01

INDEX OF DRAWINGS

U2-01	DRAWING INDEX AND ESTIMATED QUANTITIES
U2-02	VICINITY MAP AND LEGEND
U2-03	GENERAL NOTES
U2-03A	GENERAL NOTES
U2-03B	GENERAL NOTES
U2-04	NATURAL GAS RELOCATION: STA. 10+00 TO STA. 15+00
U2-05	NATURAL GAS RELOCATION: STA. 15+00 TO STA. 24+00
U2-06	NATURAL GAS RELOCATION: STA. 24+00 TO STA. 33+00
U2-07	NATURAL GAS RELOCATION: STA. 33+00 TO STA. 42+00
U2-08	NATURAL GAS RELOCATION: STA. 42+00 TO STA. 51+00
U2-09	NATURAL GAS RELOCATION: STA. 51+00 TO STA. 60+00
U2-10	NATURAL GAS RELOCATION: STA. 60+00 TO STA. 71+00
U2-11	NATURAL GAS RELOCATION: STA. 71+00 TO STA. 74+59.91
U2-12	GAS LINE "A" AND "B" PROFILE
U2-13	GAS LINE "C" PROFILE
U2-14	CONSTRUCTION DETAILS

SULLIVAN COUNTY

SIA:
STATE INDUSTRIAL ACCESS SERVING
EASTMAN CHEMICAL COMPANY

ITEM NUMBERS	TDOT DESCRIPTION	UNITS	QUANTITY	FOOTNOTE
791-02.27	TEMP BYPASS FOR TIE-IN	EACH	2	
791-03.04	4IN HDPE GAS MAIN	L.F.	297	1
791-04.11	HDD 2IN PE PIPE - ROCK	L.F.	764	2
791-04.13	HDD 4IN PE PIPE - ROCK	L.F.	66	2
791-06.02	CONNECT TO 2IN EX. PE MAIN	EACH	2	4
791-06.03	CONNECT TO 4IN EX. PE MAIN	EACH	2	4
791-07.02	4IN PE GAS VALVE ASSEMBLY	EACH	1	5
791-10.10	RETIRE GAS MAIN	LS	1	9

FOOTNOTES:

1. INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING , AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

2. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

4. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR CONNECTING TO EXISTING GAS LINE INCLUDING TRAFFIC CONTROL.

5. INCLUDES TRANSITION FITTINGS, VALVES, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, COUPLINGS, FUSION TEES, TAP OF EXISTING LINE, AND ALL OTHER NECESSARY MATERIALS AND LABOR FOR COMPLETE INSTALLATION OF ASSEMBLY INCLUDING TRAFFIC CONTROL.

9. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIREMENT OF ITEM INCLUDING STABLIZING THE ITEM OF PLANT PER UTILITY SPECIFICATIONS.

Know what's below. Call 811 before you dig.

SEALED BY

BOBBY L. WORTHINGTON
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 80808
STATE OF TENNESSEE

Bobby Worthington
03/31/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	N.T.S.
DATE	3/26/2026

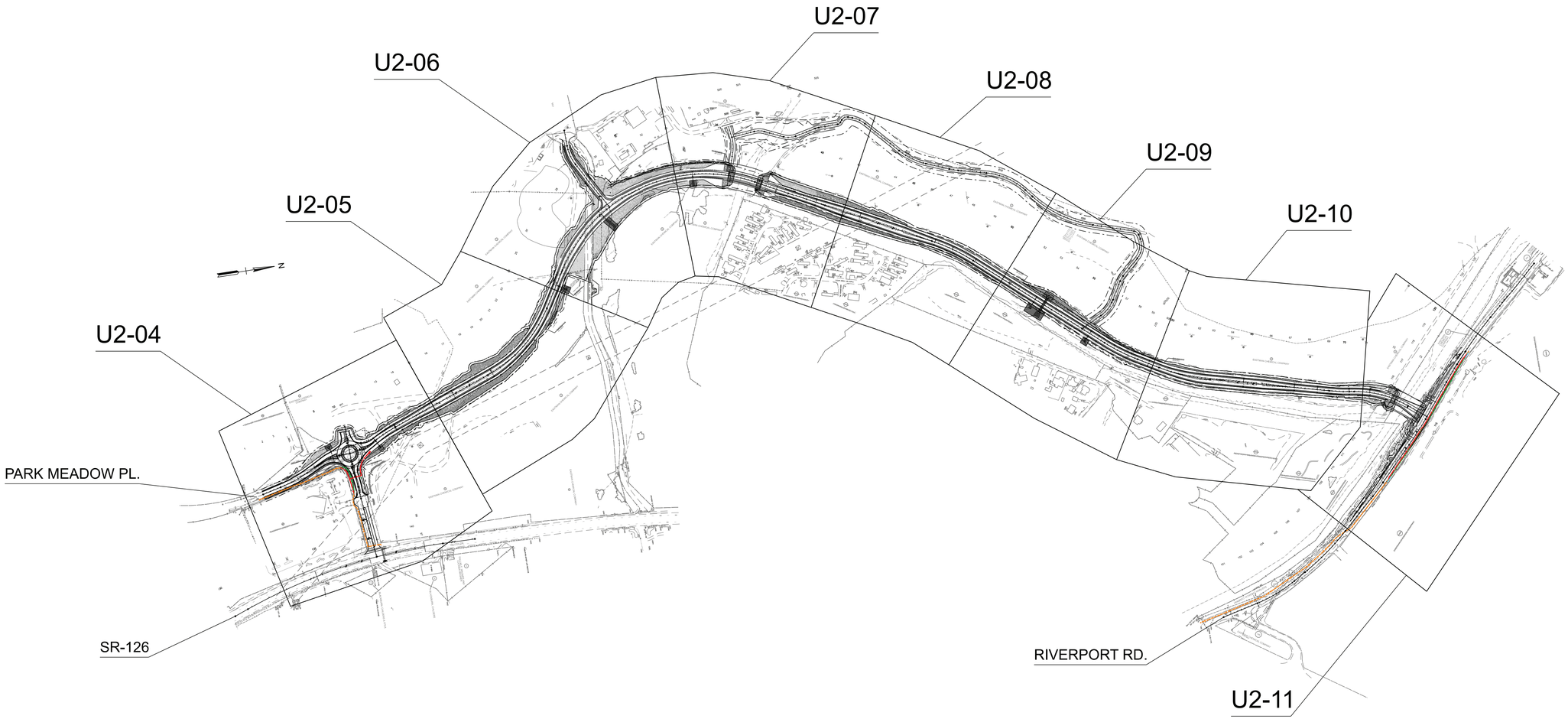
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-4777 (866) 539-7102

NATURAL GAS RELOCATION
DRAWING INDEX AND ESTIMATED QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-02

SULLIVAN COUNTY

SIA:
STATE INDUSTRIAL ACCESS SERVING
EASTMAN CHEMICAL COMPANY



LEGEND

4" G	EXISTING GAS LINE
4" G	GAS LINE TO BE RETIRED
4" G	PROPOSED GAS LINE
	TEMPORARY GAS LINE
G.V.	PROPOSED VALVE ASSEMBLY

811 Know what's below. Call 811 before you dig.

SEALED BY

BOBBY L WORTHINGTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 20808
STATE OF TENNESSEE

03/31/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE 1"=300'	DATE 3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
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KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-03

GENERAL CONSTRUCTION NOTES

1. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND UTILITY TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED WITH THE UTILITY OWNER/ENGINEER PRIOR TO BIDDING ON THE PROJECT.

2. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE NATURAL GAS FACILITIES ALONG THIS PROJECT, AS WELL AS ANY SUBCONTRACTORS.

3. THE UTILITY CONTRACTOR RESPONSIBLE FOR PERFORMING THE GAS PIPELINE CONSTRUCTION AND RELOCATION FOR THIS PROJECT SHALL BE APPROVED BY THE UTILITY AND IS REQUIRED TO FOLLOW AND ADHERE TO ALL UTILITY AND TDOT PROCEDURES AND GUIDELINES. AT A MINIMUM, ALL WORK PERFORMED IN THE CONSTRUCTION OF THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING CODES:

   - CODE OF FEDERAL REGULATIONS TITLE 49, PARTS 191 AND 192. "TRANSPORTATION OF NATURAL GAS AND OTHER GASES BY PIPELINE",
   - CODE OF FEDERAL REGULATIONS TITLE 49, PART 199, "DRUG AND ALCOHOL TESTING"
   - ASME B31.8,"GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS"
   - ASTM D2513, "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) GAS PRESSURE PIPE, TUBING, AND FITTINGS"
   - ASTM D3261,"STANDARD SPECIFICATION FOR BUTT HEAT FUSION POLYETHYLENE (PE) PLASTIC FITTINGS FOR POLYETHYLENE (PE) PLASTIC PIPE AND TUBING".
   - TENNESSEE PUBLIC UTILITY COMMISSION REQUIREMENTS
   - STATE OF TENNESSEE UNDERGROUND DAMAGE PREVENTION ACT

4. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED HEREIN WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT ITS COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

5. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER, IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS.

6. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING ON PRESSURIZED PIPELINES.

7. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

8. THE UTILITY CONTRACTOR IS REQUIRED TO USE PROPER HOT LINE TAPPING/WORKING TECHNIQUES WHEN PERFORMING WORK ON EXISTING PRESSURIZED FACILITIES

9. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE UTILITY TECHNICAL SPECIFICATIONS FOR THE PROJECT PRIOR TO BEGINNING CONSTRUCTION. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN, OR DAMAGED MATERIALS ON THE PROJECT. ALL POLYETHYLENE PRODUCTS SHALL BE "MOLDED AND MADE" IN THE UNITED STATES FROM VIRGIN RESIN.

10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE COORDINATED WITH THE UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO THE PLANNED OUTAGE TO ALLOW TIME FOR THE CUSTOMER TO BE NOTIFIED BY THE UTILITY. LARGE SCALE OUTAGES ARE NOT ALLOWED. UTILITY OWNER WILL BE RESPONSIBLE FOR TURNING GAS SERVICES BACK ON TO THE EXISTING CUSTOMERS.

11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

12. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR UTILITY ON THE GROUND.

13. AS REQUIRED BY LAW, THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION. NOTIFY TENNESSEE 811.

14. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING, IN THE EVENT THAT THERE IS ANY DAMAGE TO, OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES AND COSTS ASSOCIATED TO THE INTERRUPTION OF EXISTING FACILITIES, CAUSED BY THEM OR ONE OF THEIR SUB-CONTRACTORS.

16. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES/STRUCTURES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT TO INCLUDE PARALLEL OR PERPENDICULAR FOREIGN UTILITIES, POLES, AND/OR OTHER ROAD, RIGHT OF WAY, AND PUBLIC AND PRIVATE STRUCTURES. THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK AS REQUIRED FOR INSTALLATION OF GAS PIPELINE SYSTEMS AS SHOWN ON THE CONTRACT DRAWINGS.

17. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROPERLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

18. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION TO BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

19. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

20. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

21. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

22. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

23. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

24. SERVICE INTERRUPTIONS TO COMMERCIAL CUSTOMERS WILL HAVE TO BE SCHEDULED DURING TIMES WHEN THE BUSINESS IS NOT IN OPERATION.

25. COORDINATE SERVICE INTERRUPTIONS WITH UTILITY OWNER AND CUSTOMERS. NO SHUTDOWN SHALL EXCEED 4 HOURS.

GENERAL CONSTRUCTION NOTES

26. NOT ALL EXISTING SERVICES MAY BE SHOWN ON THE CONTRACT DRAWINGS. **UTILITY CONTRACTOR SHALL FIELD VERIFY ALL SERVICE LOCATIONS, SIZES, AND MATERIALS AND SUBMIT TO UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION** . UTILITY CONTRACTOR SHALL REINSTATE ALL EXISTING GAS SERVICES. ALL STEEL SERVICES DISCOVERED SHALL BE REPLACED FROM THE MAIN TO THE METER WITH A NEW HDPE PIPE OF LIKE DIAMETER. LONG SIDE SERVICES SHALL BE HORIZONTALLY DIRECTIONALLY DRILLED.

27. AT THE END OF EACH DAY'S WORK, OR IF WORK IS STOPPED TEMPORARILY FOR WEATHER AND AT THE END OF SECTIONS OF PIPE NOT TIED IN, PIPE SHALL BE QUICKLY CAPPED, IN ORDER TO KEEP OUT ALL FOREIGN MATTER (DIRT, VERMIN, ROCKS, WATER, ETC) AND SHALL REMAIN CAPPED UNTIL WORK IS RESUMED OR PIPE SECTIONS ARE TIED IN.

28. EACH TIME PIPE LAYING IS DISCONTINUED, PIPE MUST BE PERMANENTLY SEALED OVER ALL OPEN ENDS OF THE PIPE.

29. WHERE CONDITIONS UNSUITABLE FOR SUPPORTING PIPE ARE ENCOUNTERED, SUPPORT PIPE, FITTINGS, JOINTS, ETC AS REQUIRED BY SANDBAGGING.

30. TDOT PROVISION SP106A SHALL APPLY TO THIS PROJECT, BUY AMERICA CERTIFICATIONS ARE REQUIRED FOR ALL PERMANENTLY INCORPORATED STEEL AND IRON COMPONENTS, COATINGS, AND OTHER ITEMS AS REQUIRED BY FHWA BUY AMERICAN STATUARY AND REGULATORY PROVISIONS AS CONTAINED WITHIN THE UNITED STATES CODE (U.S.C.) TITLE 23- HIGHWAYS AND 23 CFR 635. PRIME CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED COMPONENTS MEET SAID REQUIREMENTS.

31. PRIME CONTRACTOR SHALL INCLUDE ALL PROVISIONS FOR TEMPORARY AND PERMANENT REPAVING OF PAVEMENTS TO INCLUDE (ROADWAY, DRIVEWAYS, SIDE WALKS, CURBS, ETC.) LOCATED WITHIN PUBLIC RIGHT OF WAY AND REPAVING BOUNDS OF PROJECT. SURFACES SHALL BE RESTORED AS REQUIRED TO MATCH EXISTING CONDITIONS. NO PAYMENT SHALL BE MADE UNDER DIVISION 791 FOR TEMPORARY AND PERMANENT REPAVING ON PUBLIC ROW.

CONTRACTOR REQUIREMENTS

PRE-QUALIFICATIONS AND/OR GENERAL REQUIREMENTS FOR UTILITY CONTRACTOR

1. GENERAL INFORMATION:

   BELOW IS A LIST OF REQUIREMENTS, AND ALSO REFERENCE OPERATOR QUALIFICATIONS SECTION HEREIN, FOR QUALIFICATION REQUIREMENTS FOR ANY NATURAL GAS UTILITY CONTRACTOR OR SUBCONTRACTOR PROPOSED FOR THE UTILITY WORK REQUIRED FOR THE COMPLETION OF THE PROJECT AS ESTABLISHED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS

   IN ADDITION, THERE IS A LIST OF NATURAL GAS UTILITY CONTRACTORS THAT HAVE BEEN PRE-QUALIFIED BY THE UTILITY OWNER FOR WORK REQUIRED BY THIS PROJECT. WORK ON THIS PROJECT IS NOT IN ANY WAY RESTRICTED TO THE LISTED PRE-QUALIFIED NATURAL GAS UTILITY CONTRACTORS. CONTRACTORS THAT HAVE NOT BEEN PRE-QUALIFIED SHALL SUBMIT THE REQUIRED QUALIFICATIONS AND INFORMATION LISTED FOR THE UTILITY OWNER'S INSPECTION PER THE TERMS IN THIS SECTION AND OPERATOR QUALIFICATIONS SECTION BELOW.

   THE TERMS OF THIS SHALL BE INCORPORATED INTO THE CONTRACT FOR THE PROJECT BY AND BETWEEN TDOT AND THE UTILITY OWNER.

2. GENERAL REQUIREMENTS:
   a. TENNESSEE STATE CONTRACTOR'S LICENSE
   b. FIVE (5) YEARS OF EXPERIENCE IN THE CONSTRUCTION OF NATURAL GAS UTILITY PROJECTS OF THE TYPE DEPICTED IN THE PROJECT DRAWINGS AND SPECIFICATIONS.
   c. MINIMUM OF FIVE (5) MILLION DOLLARS TOTAL VALUE OF NATURAL GAS UTILITY PROJECTS COMPLETED IN THE PREVIOUS CALENDAR YEAR.
   d. SEVENTY (70%) PERCENT OF UTILITY CONTRACTORS' OVERALL PROJECT VALUE SHALL BE IN THE NATURAL GAS UTILITY FIELD.
   e. MINIMUM BONDING CAPACITY OF FIVE (5) MILLION DOLLARS.
   f. MINIMUM LIABILITY INSURANCE AGGREGATE OF THREE (3) MILLION DOLLARS.
   g. SHALL DEMONSTRATE AVAILABILITY OF SUITABLE EQUIPMENT, QUALIFIED SUPERVISORY AND FIELD CREWS FOR THE TYPE OF WORK REQUIRED BY THE PROJECT, AND WORKLOAD TO MEET THE PROJECT SCHEDULE
   h. LOCUSVIEW/LOCUSMAPS: UTILITY OWNER HAS ADOPTED USAGE OF LOCUSMAP/LOCUSVIEW SOFTWARE PLATFORM TO ELECTRONICALLY CAPTURE CONSTRUCTION DATA IN THE FIELD DURING CONSTRUCTION, UTILITY CONTRACTOR SHALL PROVIDE ALL RECORDS AND DATA PERTAINING TO THE WORK PERFORMED ON ANY PIPELINE FACILITY TO UTILITY OWNER ELECTRONICALLY VIA SOFTWARE AND HARDWARE PROVIDED BY, OR IN ASSOCIATION WITH, LOCUSVIEW OR ANY OTHER THIRD PARTY ACCEPTED BY UTILITY OWNER. UTILITY CONTRACTOR SHALL BE REQUIRED TO VALIDATE CONSTRUCTION AND ASSET DATA USING BAR-CODE SCANNING, HIGH-ACCURACY GPS TECHNOLOGY, PERSONNEL RESPONSIBLE FOR FUSION OF ASSETS, ELECTRONIC FORMS, ETC. DURING THE CONSTRUCTION PROCESS. IN INSTANCES WHERE DATA IS NOT COLLECTED VIA THE ELECTRONIC APPLICATION, AS SPECIFIED HEREIN, UTILITY CONTRACTOR SHALL BE REQUIRED TO PROVIDE PAPER RECORDS OF ASSET INFORMATION. UTILITY CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER PRIOR TO SUBMITTING BID TO VERIFY THE LATEST HARDWARE AND SOFTWARE REQUIREMENTS TO ENSURE COMPATIBILITY BETWEEN UTILITY CONTRACTOR'S EQUIPMENT AND UTILITY OWNER'S DATA ACQUISITION AND STORAGE PLATFORMS. ALL COST ASSOCIATED WITH LOCUSVIEW HARDWARE, SOFTWARE, AND TRAINING ARE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. NO ADDITIONAL PAYMENT SHALL BE MADE DURING THE LIFE OF THE PROJECT WHEN HARDWARE AND SOFTWARE UPGRADES ARE REQUIRED BY THE UTILITY OWNER.

3. REQUIREMENTS FOR NON-PREQUALIFIED CONTRACTORS:

   NATURAL GAS UTILITY CONTRACTORS PROPOSED BY THE STATE CONTRACTOR THAT ARE NOT LISTED AS "PRE-QUALIFIED", SHALL SUBMIT THE INFORMATION LISTED BELOW IN SECTIONS 3(a) THROUGH (d) TO THE UTILITY OWNER 14 DAYS PRIOR TO THE START OF THE PRECONSTRUCTION MEETING (AS LISTED BY TDOT). THE UTILITY OWNER WILL NOTIFY TDOT AS TO ACCEPTANCE OR REJECTION, IN UTILITY OWNER'S SOLE DISCRETION, OF THE PROPOSED NATURAL GAS UTILITY CONTRACTOR WITHIN 10 DAYS AFTER RECEIPT OF SUCH INFORMATION. IF THE UTILITY OWNER REJECTS THE PROPOSED NATURAL GAS UTILITY CONTRACTOR, TDOT WILL NOT PERMIT SUCH CONTRACTOR TO PERFORM ANY NATURAL GAS UTILITY WORK FOR THE PROJECT. UTILITY OWNER ANTICIPATES THAT THE TIME FRAME FOR APPROVING A NON-PREQUALIFIED CONTRACTOR IS ROUGHLY 12 WEEKS.

   a. EVIDENCE OF MEETING THE REQUIREMENTS LISTED IN SECTIONS 2 (a) THROUGH (h) ABOVE AND MEETING OPERATOR QUALIFICATION SECTION HEREIN
   b. REFERENCES FOR THREE (3) CONTRACTS (DIFFERENT UTILITY OWNERS) WITHIN THE PAST TWO (2) YEARS FOR SIMILAR NATURAL GAS PIPELINE WORK PERFORMED BY THE PROPOSED CONTRACTOR. REFERENCES SHALL INCLUDE THE NAMES AND TELEPHONE NUMBERS OF THE UTILITY OWNER'S PERSONNEL WITH WHOM THE CONTRACTOR HAD PRIMARY CONTACT.
   c. DETAILED INFORMATION OF SUPERVISORY/FIELD PERSONNEL INCLUDING EXPERIENCE, QUALIFICATIONS, AND TRAINING FOR PERFORMING NATURAL GAS PIPELINE WORK.
   d. DETAILED INFORMATION ON ANY CONTRACTUAL PENALTIES, OSHA VIOLATIONS, LEGAL PROCEEDINGS, LAWSUITS OR CLAIMS LEVIED AGAINST THE PROPOSED CONTRACTOR WITHIN THE PAST TWO (2) YEARS, CONTENDING BREACH OF OR NON-COMPLIANCE WITH CONTRACT REQUIREMENTS OR SPECIFICATIONS.

4. PRE-QUALIFIED CONTRACTORS:

   THE FOLLOWING CONTRACTORS HAVE BEEN PRE-QUALIFIED BY THE UTILITY OWNER FOR THE WORK REQUIRED BY THIS PROJECT:

   MARTIN CONTRACTING, INC.
   ATTN: SHAWN MARTIN
   2371 IRVIN RD.
   RICHMOND, KY 40475
   (859) 623-0112
   shawn.martin@martincontracting.net

   PIPELINE CONSTRUCTION CO. INC
   ATTN: TRACY M HAYES
   6320 RUTLEDGE PIKE
   KNOXVILLE, TN 37925
   (865) 255-2928
   tracy.hayes@pipelineinc.com

   FLORIDA WEST SERVICES
   4004 US HIGHWAY 411 S
   MARYVILLE, TN 37801
   (865) 951-5642

OPERATOR QUALIFICATIONS

1. TO ENSURE COMPLIANCE WITH THE CODE OF FEDERAL REGULATIONS, TITLE 49, PARTS 191, 192 AND 199, THE UTILITY CONTRACTOR SHALL BE A SUBSCRIBER TO ISNETWORLD (ISN).

2. TO COMPLY WITH THE CODE OF FEDERAL REGULATIONS (CFR) TITLE 49, PART 199, DRUG AND ALCOHOL TESTING, THE UTILITY CONTRACTOR SHALL SUBMIT THEIR SUBSTANCE ABUSE PLAN TO NATIONAL COMPLIANCE MANAGEMENT SERVICE, INC. (NCMS) FOR REVIEW AND APPROVAL.

   NATIONAL COMPLIANCE MANAGEMENT SERVICE, INC.
   7 COMPOUND DRIVE HUTCHINSON, KANSAS 67502
   PHONE; (620) 669-0954
   FAX; (620) 669-9430
   www.nationalcompliance.com

3. THE UTILITY CONTRACTOR SHALL HAVE AND FOLLOW AN OPERATOR QUALIFICATION (OQ) PLAN AND USE THE SERVICES OF AN APPROVED (OQ) ASSESSMENT PROVIDER TO ADMINISTER AND MANAGE THEIR TRAINING AND QUALIFICATION ASSESSMENT PROCESS.

4. THE FOLLOWING (OQ) ASSESSMENT PROVIDERS ARE APPROVED BY THE UTILITY OWNER:

   ENERGY WORLDNET, INC.
   (940) 626-1941
   www.energyworldnet.com
   GAJESKE OQ SERVICES
   (972) 314-8100
   www.gajeske.com
   MIDWEST ENERGY ASSOCIATION
   (615) 289-9600 EXT 101
   www.midwestenergy.com
   INDUSTRIAL TRAINING SERVICES
   (270) 753-2150
   www.its-training.com

5. THE FOLLOWING OPERATOR QUALIFICATIONS REQUIRE CERTIFICATIONS TO BE ADMINISTERED BY A THIRD PARTY VENDOR APPROVED BY UTILITY OWNER: (1) WELDING OF STEEL PIPELINES AND (2) JOINING PLASTIC PIPE. THESE CERTIFICATIONS WILL BE ADMINISTERED AND PROVIDED BY A THIRD PARTY VENDOR APPROVED BY UTILITY OWNER. TO SCHEDULE THE CERTIFICATIONS. CONTACT UTILITY OWNER FOR A LIST OF VENDORS.

6. REVIEW ISNETWORLD BULLETIN BOARD FOR THE LATEST PROCEDURE MANUALS. CONTACT THE ENGINEER FOR THE LATEST MATERIAL STANDARDS SPECIFICATIONS.

7. REFERENCE THE SPECIFICATIONS FOR REQUIREMENTS ON CONSTRUCTION RECORDS KEEPING AND FACILITY LOCATING AIDES.

8. UTILITY CONTRACTOR SHALL SUBMIT DOCUMENTATION DEMONSTRATING COMPLIANCE WITH ALL, GENERAL, OQ, CONTRACTOR, AND D&A REQUIREMENTS, TO INCLUDE ANY AND ALL "SUB-CONTRACTORS", HEREIN A MINIMUM OF 14 DAYS PRIOR TO PRECONSTRUCTION MEETING TO ALLOW FOR ADEQUATE TIME FOR REVIEW BY UTILITY OWNER.

TRENCHING PROCEDURES

1. MAINTAIN A MINIMUM OF THREE (3) FEET OF COVER FROM FINISHED GRADE TO THE TOP OF PIPE FOR ALL PIPE BEING INSTALLED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL PIPELINES UNDER PAVEMENT SHALL BE PROVIDED WITH A MINIMUM OF THREE (3) FEET OF COVER. WHERE TWO GAS LINES ARE LOCATED WITHIN THE SAME TRENCH. PROVIDE ONE FOOT OF SEPARATION (MINIMUM) BETWEEN THE PIPES, HORIZONTAL AND VERTICAL CONTROL ARE THE CONTRACTORS RESPONSIBILITY.

2. IN AREAS OF CUT AND FILL. COORDINATE INSTALLATION OF THE PIPELINES WITH EARTH MOVING ACTIVITIES TO ENSURE THE MINIMUM AMOUNT OF COVER IS MAINTAINED OVER THE PIPE.

3. INSTALL PIPE ON UNDISTURBED OR WELL COMPACTED SOIL, WITH NO CLOTS OR ROCKS.

4. WHEN ROCK IS ENCOUNTERED, IT SHALL BE REMOVED FOR A DISTANCE OF SIX (6) INCHES BELOW AND ON EITHER SIDE OF THE PIPE. PROVIDE SUITABLE PADDING (e.g. SAND) FOR A DEPTH OF SIX (6) INCHES MINIMUM PRIOR TO PLACEMENT OF THE PIPE. INSTALL ROCKSHIELD AS DIRECTED BY UTILITY OWNER OR ENGINEER. UTILITY CONTRACTOR WILL INCLUDE TO PROVIDE A MINIMUM OF 100 LF OF INSTALLED ROCKSHIELD OUTSIDE OF ROCKSHIELD THAT IS REQUIRED AS PER THE CONTRACT DRAWINGS IN PIPE TRENCHED FOOTAGE (100 LF FOR 8" STEEL PIPE AND 100 LF FOR 4" HDPE PIPELINE).NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE FIRST 100 LF OF INSTALLED ROCKSHIELD FOR BOTH 4" HDPE AND 8" STEEL PIPELINES.

5. ROCK SHIELD SHALL BE AS APPROVED BY UTILITY OWNER OR ENGINEER AND SHALL BE: TUFF-N-NUFF STRANDED POROUS PVC ROCK SHIELD THAT IS COMPATIBLE WITH CATHODIC PROTECTION, 11MM MINIMUM THICKNESS AND SECURED WITH TAPE OR BANDS. SUBMIT ROCK SHIELD TO UTILITY OWNER IN MATERIAL SUBMITTALS.

6. BACKFILL MATERIAL SHALL BE FREE FROM ROCKS FOR AT LEAST THE FIRST TWELVE (12) INCHES COVERING THE PIPE. FROM TWELVE (12) INCHES ABOVE PIPELINE TO FINISHED GRADE, BACKFILL MATERIAL SHALL BE FREE FROM ROCKS THAT ARE GREATER THAN FOUR (4) INCHES ACROSS THE GREATEST DIMENSION OR AS APPROVED BY UTILITY OWNER.

7. WHEN COMPACTING BACKFILL, PREVENT DAMAGE TO THE PIPE FROM HEAVY EQUIPMENT BY PROVIDING A CUSHION OF TWENTY-FOUR (24) INCHES. BACKFILL SHALL BE ADEQUATELY COMPACTED TO ELIMINATE SETTLEMENT AND SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. UTILITY CONTRACTOR SHALL COMPACT BACKFILL TO 85% ASTM D698 STANDARD PROCTOR FOR YARD AREAS AND 95% STANDARD PROCTOR FOR PAVED AREAS (PROPOSED AND EXISTING) AND IN AREAS ADJACENT TO SIDEWALKS AND/OR OTHER PROPOSED OR EXISTING PAVING (WHERE EDGE OF TRENCH IS WITHIN 1:1 SLOPE EDGE OF SIDEWALK, CURB, OTHER PAVING, ETC.).

8. BACKFILL FROM THE BOTTOM OF THE GAS PIPELINE TO 12-INCHES ABOVE THE TOP OF THE PIPELINE SHALL BE COMPACTED BY TAMPING AND HAND RAMMING IN 6-INCH LAYERS/LIFTS.

9. BACKFILL FROM A POINT 12-INCHES ABOVE TOP OF THE PIPELINE TO FINISHED SUB GRADE SHALL BE AS FOLLOWS:

   i. PROPOSED OR EXISTING PAVEMENT; CLEAN CRUSHED #57 STONE PLACED IN 6-INCH LIFTS AND COMPACTED BY SUITABLE MEANS.
   ii. YARD AREAS; SUITABLE NATIVE MATERIALS PLACED IN 12-INCH LIFTS AND COMPACTED BY SUITABLE MEANS.
   iii. FLOWABLE FILL; WHERE INDICATED ON PLANS AND IN THE CONTRACT DOCUMENTS
   iv. TEMPORARY PAVEMENT; WHERE TRENCHES ARE CUT ACROSS PAVED AREAS, INSTALL #57 UP TO 12-INCHES BELOW FINISHED GRADE PLACED IN 6-INCH LIFTS AND COMPACTED BY SUITABLE MEANS, THEN FOR FINAL 12-INCHES, PROVIDE CLASS A, GRADE D CRUSHED STONE PLACED IN 6-INCH LIFTS AND COMPACTED BY SUITABLE MEANS. MAINTAIN TEMPORARY PAVEMENT UNTIL FINAL PAVEMENT RESTORATION IS ACHIEVED.

10. SAWCUT NEAT LINES FOR REMOVAL OF EXISTING PAVEMENT. UPON COMPLETION OF PIPELINE INSTALLATION, BACKFILL AS LISTED HEREIN WITH TEMPORARY PAVEMENT. RESTORATION OF PERMANENT PAVEMENT SHALL BE COMPLETED AS SOON AS PRACTICAL. RESTORATION OF PAVEMENT THICKNESS AND TYPE SHALL MATCH EXISTING PAVEMENT. RESTORATION OF PAVEMENT SHALL ALSO INCLUDE AREAS OF PAVEMENT WHICH ARE DAMAGED BY UTILITY CONTRACTOR'S CONSTRUCTION EQUIPMENT. FINAL PATCHING SHALL CONFORM TO THE LAYOUT AND GRADING OF THE EXISTING PAVEMENT PRIOR TO DISTURBANCE. THERE SHALL BE NO DEVIATION IN SMOOTHNESS EXCEEDING 1/4 INCH.

    a. FOR AREAS OF ASPHALT: REMOVE TEMPORARY PAVEMENT, PROVIDE ADDITIONAL FLOWABLE FILL OR CRUSHED #57 STONE TO PREPARE AREA FOR FINAL PAVING AS REQUIRED. THEN PROVIDE (2) 4" BASE COURSES OF COMPACTED TDOT 303-01 CLASS A, GRADE D CRUSHED STONE. FINAL HOT MIX ASPHALT TO MATCH EXISTING OR REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
    b. FOR AREAS OF CONCRETE OR OTHER PAVING: REMOVE TEMPORARY PAVEMENT, PROVIDE ADDITIONAL FLOWABLE FILL OR CRUSH #57 STONE TO CONCRETE SUBGRADE AS REQUIRED. FINAL CONCRETE TO MATCH EXISTING OR REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. CONCRETE REPLACEMENT SHALL EXTEND TO THE NEAREST CONTROL JOINT FOR A UNIFORM MATCH.

11. PRIME CONTRACTOR SHALL INCLUDE ALL PROVISIONS FOR TEMPORARY AND PERMANENT REPAVING OF PAVEMENTS TO INCLUDE (ROADWAY, DRIVEWAYS, SIDE WALKS, CURBS, ETC.) LOCATED WITHIN PUBLIC RIGHT OF WAY AND REPAVING BOUNDS OF PROJECT. SURFACES SHALL BE RESTORED AS REQUIRED TO MATCH EXISTING CONDITIONS. NO PAYMENT SHALL BE MADE UNDER DIVISION 791 FOR TEMPORARY AND PERMANENT REPAVING ON PUBLIC ROW.

REFERENCE ATMOS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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SEALED BY

BOBBY L. WORTHINGTON
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No. 109505
STATE OF TENNESSEE

Bobby L Worthington

03/31/2026

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GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-03A

TRENCHING PROCEDURES

12. LOWERING IN PIPE SHALL BE APPROVED BY UTILITY OWNER'S INSPECTOR

    a. UPON COMMENCEMENT OF THE LOWERING-IN OPERATION, UTILITY CONTRACTOR SHALL FIRST ENSURE THAT ALL SKIDS, LUMBER, WIND-BLOWN MATTER, AND OTHER DEBRIS POTENTIALLY HARMFUL TO THE PIPE COATING ARE REMOVED FROM THE TRENCH. VEGETATION ROOTS, WHICH IN THE OPINION OF THE UTILITY OWNER REPRESENTATIVE ARE POTENTIALLY HARMFUL TO THE PIPE EITHER DURING OR AFTER LOWERING IN, SHALL BE CUT OFF AS NEAR TO THE TRENCH BANK OR BOTTOM AS PRACTICABLE AND REMOVED FROM THE TRENCH.

    b. ALL OVER-BENDS SHALL BE MADE AND INSTALLED IN SUCH A MANNER THAT THE PIPE AT THE POINT OF BEND SHALL CLEAR THE HIGH POINT OF THE BOTTOM OF THE TRENCH BY AT LEAST ONE-THIRD OF THE OUTSIDE DIAMETER OF THE PIPE. AT SIDE-BENDS, THE PIPE SHALL BE BENT AND LOWERED SO AS NOT TO LAY AGAINST THE OUTSIDE WALL OF THE TRENCH. ALL SAGS WILL REST ON BOTTOM OF TRENCH.

SLOPING/BENCHING, SHORING, AND SHIELDING

1. UTILITY CONTRACTOR SHALL SELECT AND PROVIDE APPROPRIATE TRENCH PROTECTION SYSTEM(S) TO INCLUDE TEMPORARY SHORING, SLOPING, BENCHING, TRENCH BOXES, SHORING JACKS, HYDRAULIC CYLINDER, AND/OR OTHER SYSTEMS AND TECHNIQUES FOR TRENCH EXCAVATION AS REQUIRED FOR INSTALLATION OF GAS PIPELINE SYSTEM AS SHOWN ON THE CONTRACT DRAWINGS.

2. UTILITY CONTRACTOR SHALL INCLUDE ANY AND ALL REQUIRED SLOPING/BENCHING, SHORING, AND SHIELDING WITHIN THE TRENCHED PIPE UNIT BID AND NO ADDITIONAL PAYMENT SHALL BE MADE WHEN NARROW TRENCH EXCAVATION TECHNIQUES AND SYSTEMS ARE REQUIRED TO INSTALL THE PIPELINE AS SHOWN ON THE CONTRACT DRAWINGS DUE TO EXISTING AND/OR PROPOSED FOREIGN UTILITIES, POLES, AND/OR STRUCTURES (ON OR OFF PUBLIC RIGHT OF WAY).

WELDING OF GAS PIPELINES

1. CONTRACTOR SHALL SUBMIT CREDENTIALS FOR THEIR NON-DESTRUCTIVE TESTING (NDT) SUBCONTRACTORS TO UTILITY OWNER PRIOR TO BEGINNING WORK.

2. ALL BUTT WELDS SHALL BE TESTED BY RADIOGRAPHIC EXAMINATION AND FILLET WELDS (e.g.,TIE-INS) SHALL BE TESTED VIA MAGNETIC PARTICLE FLUX EXAMINATION. FABRICATOR TO PROVIDE PROTECTION FOR OPEN ENDS OF ASSEMBLIES.

3. ALL CONTRACTOR PERSONNEL (WELDERS) PERFORMING WELDS TO JOINT STEEL PIPE SHALL BE CERTIFIED IN ACCORDANCE WITH AMERICAN PETROLEUM INSTITUTE (API) STANDARD 1104 WELDING OF PIPELINES AND RELATED FACILITIES, REFERENCE UTILITY OWNER'S TECHNICAL SPECIFICATIONS FOR WELDING PROCEDURES.

4. WELDED JOINTS SHALL BE SANDBLASTED PER THE NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE) STANDARD NO. 2 SSPC-SP10, NEAR-WHITE BLAST CLEANING BY THE USE OF ABRASIVES. JOINTS SHALL BE COVERED USING A TWO-PART EPOXY APPLIED PER THE MANUFACTURER RECOMMENDATIONS, RECOMMENDATIONS THAT ARE COMPATIBLE WITH THE PIPE COATING SPECIFIED HEREIN. INCLUDE TWO-PART EPOXY COATING SYSTEM IN MATERIAL SUBMITTALS TO UTILITY OWNER.

5. TAPPING FITTINGS SHALL BE CLEANED WITH A POWER BRUSH, PRIMED WITH WAX TAPE PRIMER AND WRAPPED WITH WAX TAPE OR COVERED USING AN APPROVED TWO- PARTY EPOXY. CONTRACTOR SHALL INCLUDE WAX TAPE PRIMER AND WAX TAPE COATING SYSTEM IN MATERIAL SUBMITTALS TO UTILITY OWNER.

6. THOROUGHLY JEEP ALL BELOW GRADE PIPE WITH A MEDIUM VOLTAGE HOLIDAY DETECTOR ROUTINELY BEFORE AND AFTER LOWERING THE PIPE INTO THE TRENCH. LOCATE ANY HOLIDAYS AND PATCH WITH A MATERIAL COMPATIBLE WITH THE PIPE COATING AND RETEST.

7. SET THE HOLIDAY DETECTOR AT THE APPROPRIATE VOLTAGE TO BE VERIFIED BY THE CORROSION INSPECTOR. PRIOR TO USE EACH DAY, CHECK THE VOLTAGE WITH A VOLTMETER.

8. ERW PIPE HAVING A LONGITUDINAL SEAM SHALL BE TURNED SO THAT THE LONG SEAM IS WITHIN THIRTY DEGREES FROM THE TOP CENTER. SUCCESSIVE JOINTS SHALL BE ROTATED TO AVOID ALIGNING THE LONG SEAMS IN ADJOINING JOINTS.

9. THIS PROJECT WILL BE 100-PERCENT X-RAY FOR STEEL PIPE WELDS. UTILITY CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH VISUAL WELDING INSPECTOR (VWI) IN PRODUCTION OF WELD MAPS FOR THE PROJECT IDENTIFYING HEAT NUMBERS AND ASSOCIATED WELD NUMBERS. A VISUAL WELDING FORM SHALL ALSO BE COMPLETED FOR EACH WELD AND LABELED WITH THE WELD NUMBER OR OTHER MARKING. THE VISUAL WELDING INSPECTOR SHALL BE RESPONSIBLE FOR THIS.

CATHODIC PROTECTION/PIPELINE COATING

1. UTILITY OWNER WILL INSTALL ANODES AND CATHODIC TEST STATIONS. UTILITY CONTRACTOR TO COORDINATE AS NECESSARY.

2. CONTACT UTILITY OWNER TO SCHEDULE THE INSTALLATION OF THE TEST STATIONS. DO NOT BACKFILL THE AREAS FOR THE TEST STATIONS SHOWN ON THE DRAWINGS UNTIL INSTALLATION IS COMPLETE.

3. UTILITY CONTRACTOR SHALL FOLLOW AND ADHERE TO MANUFACTURER'S SPECIFICATIONS, AND SUGGESTED INSTALLATION AND HANDLING PROCEDURES FOR ALL FUSION BONDED EPOXY (FBE) AND EQUIVALENT COATING APPLICATIONS.

4. UTILITY CONTRACTOR IS RESPONSIBLE FOR OBTAINING SPECIFICATIONS, MAINTAINING, STORING, AND INSTALLING ALL COATING PRODUCTS PER THE SPECIFIC MANUFACTURER'S RECOMMENDED SPECIFICATIONS.

5. DURING INSTALLATION, ALL BARE PIPE SHALL BE SANDBLASTED PER NACE STANDARD NO. 2 SSPC-SP10, NEAR-WHITE BLAST CLEANING BY THE USE OF ABRASIVES.

FUSIONS AND TIE-INS TO NEW AND EXISTING PE

1. UTILITY CONTRACTOR IS RESPONSIBLE FOR ALL TAPPING, FUSIONS, AND TIE-IN OPERATIONS; PREFERRED METHODS ARE AS FOLLOWS:
    a. NEW PE TO EXISTING PE: ELECTRO OR BUTT-FUSION FOR JOINING; ELECTRO OR SADDLE FUSION FOR TAPS, ANY MECHANICAL FITTINGS MUST BE APPROVED BY UTILITY OWNER. REFERENCE UTILITY OWNER TECHNICAL SPECIFICATIONS.
    b. NEW PE TO NEW PE: ELECTRO OR BUTT-FUSION FOR JOINING OF PIPELINES AND FITTINGS; ELECTRO OR SADDLE FUSION FOR TAPS, ANY MECHANICAL FITTINGS MUST BE APPROVED BY UTILITY OWNER, REFERENCE UTILITY OWNER TECHNICAL SPECIFICATIONS.

2. SQUEEZE OFF TOOLS MUST COMPLY WITH ASTM F1563, "STANDARD FOR TOOLS TO SQUEEZE-OFF POLYETHYLENE (PE) GAS PIPE OR TUBING. RE-ROUND PIPE AND INSTALL TWO PIECE CLAMP AT SQUEEZE-OFF POINT. SQUEEZING SHALL BE IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE TN-54: 'GENERAL GUIDELINES FOR SQUEEZING OF POLYETHYLENE PIPE IN WATER, OIL, AND GAS APPLICATIONS'.

3. UTILITY CONTRACTOR SHALL MAKE ALL TIE-INS TO EXISTING MAINS IN THE PRESENCE OF UTILITY OWNER INSPECTOR; NO EXCEPTIONS WILL BE MADE. REFERENCE UTILITY OWNER SPECIFICATIONS FOR HOT TAPPING REQUIREMENTS.

4. UTILITY CONTRACTOR SHALL MAKE ALLOWANCES FOR UNRESTRAINED POLYETHYLENE PIPE TO CONTRACT BY "SNAKING"PIPE FROM ONE SIDE OF THE TRENCH TO THE OTHER. DURING WARM WEATHER, KEEP PIPE IN A COMPRESSIVE STATE AND ALLOW PIPE TO COOL TO GROUND TEMPERATURE BEFORE MAKING FINAL CONNECTIONS.

5. UTILITY CONTRACTOR SHALL CONNECT NEW TRACER WIRE TO EXISTING TRACER WIRE WHEN TYING INTO EXISTING PE MAINS OR SERVICES.

STATIC DISCHARGE FOR PE PIPE

1. TAKE PRECAUTIONS TO REDUCE THE POTENTIAL FOR STATIC ELECTRIC DISCHARGES WHERE HAZARDOUS ATMOSPHERE'S MAY EXIST BY APPLYING AN ANTI-STATIC SOLUTION.

2. FOLLOW PRECAUTIONS RECOMMENDED BY THE AMERICAN GAS ASSOCIATION (AGA) IN THE LATEST EDITION OF THE 'PLASTIC PIPE MANUAL FOR GAS SERVICE

3. DO NOT VENT GAS USING UNDERGROUND PLASTIC PIPE OR TUBING. IF VENTING IS NECESSARY, VENT DOWN-WIND AT A LOCATION AWAY FROM PERSONNEL AND FLAMMABLE MATERIALS.

BENDS AND ELBOWS

1. FOR ANY CHANGE IN DIRECTION 15 DEG. OR GREATER, USE AN ELBOW TRIMMED TO FIT. FOR CHANGES IN DIRECTION LESS THAN 15 DEG., BEND USING A MANDREL BENDING MACHINE. THIS INCLUDES BUT IS NOT LIMITED TO SIDE BENDS, OVERBENDS, AND SAG BENDS.

2. PREVENT WRINKLE BENDS; WRINKLING BENDS WILL NOT BE ALLOWED.

3. SAG, OVERBENDS, AND SAG BENDS ARE SHOWN SCHEMATICALLY. UTILITY CONTRACTOR SHALL MAKE ALL COMBINATION BENDS AS REQUIRED.

4. WHEN TRIMMING AN ELBOW, MAINTAIN A MINIMUM ARC LENGTH OF ONE (1) INCH, MEASURED ALONG THE CROTCH.

5. BENDING STEEL PIPE:
    a. UTILITY CONTRACTOR SHALL MAKE ALL NECESSARY PIPE BENDS REQUIRED IN THE CONSTRUCTION OF THE LINE.
    b. ALL BENDING SHALL BE DONE BY AN APPROVED, COLD SMOOTH BENDING METHOD AND SHALL BE MADE BY THE USE OF AN APPROVED TYPE COLD, SMOOTH BENDING MACHINE HAVING FULL ENCIRCLEMENT BENDING SHOE PRODUCING A SMOOTH, SYMMETRICAL BEND. NOT STRETCHING OR THINNING OF THE PIPE WALL THICKNESS WILL BE PERMITTED. ALL BENDS ON PIPE 8" AND LARGER WILL REQUIRE A MANDREL TO BE USED DURING THE BENDING PROCESS. ALL FIELD BENDS SHALL BE APPROVED BY THE UTILITY OWNER PRIOR TO BEING WELDED IN.
    c. THE MAXIMUM DEGREE OF BENDING SHALL NOT BE MORE THAN ONE (1) DEG. PER 18" IN ANY LENGTH ALONG THE PIPE AXIS AND AN ACCURATE METHOD OF MEASUREMENT SHALL BE USED.
    d. ON PIPE CONTAINING A LONGITUDINAL WELD, THE LONGITUDINAL SEAM SHALL BE AS NEAR AS PRACTICABLE TO THE NEUTRAL AXIS OF THE BEND. NO CIRCUMFERENTIAL WELD SHALL BE SUBJECTED TO STRESS DURING BENDING.
    e. THE DIFFERENCE BETWEEN THE MAXIMUM AND MINIMUM DIAMETER AT A BEND SHALL NOT EXCEED TWO AND ONE- HALF PERCENT (2.5-PERCENT) OF THE NOMINAL DIAMETER OF THE PIPE.
    f. ANY PIPE THAT IS BUCKLED OR OTHERWISE DAMAGED (DENTED, SCARRED, NICKED, ETC.) BY THE BENDING OPERATION SHALL BE CUT OUT AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

PIPELINE TESTING

1. PRIOR TO TESTING, CLEAN THE PIPELINE BY BLOWING PIGS WITH COMPRESSED AIR A SUFFICIENT NUMBER OF TIMES TO ENSURE THE REMOVAL OF ALL CONSTRUCTION DIRT, RUST, SCALE AND ALL FOREIGN MATTER IN THE PIPELINE.

2. PRESSURE TEST SHALL COMPLY WITH 49 CFR 192, SUBPART J "TEST REQUIREMENTS" AND UTILITY OWNER PROCEDURES.

3. THE RECORDING CHART SHALL REFLECT THE PRESSURE INCREASE AS THE LINE IS BEING PRESSURIZED AND PRESSURE DECREASE AFTER THE TEST IS DEEMED SUCCESSFUL BY UTILITY OWNER.

4. THE TEST PRESSURE FOR POLYETHYLENE (HDPE) PIPE AND OTHER PIPELINES WITH AN MAOP OF 100 PSIG OR LESS:
    a. MAINS SHALL BE PRESSURE TESTED TO 150 PSIG (+25,0) FOR A DURATION AS SPECIFIED IN UTILITY OWNER'S TECHNICAL SPECIFICATIONS.
    b. TEST MEDIUM FOR ALL TESTS SHALL BE: AIR
    c. RECORDING CHARTS WITH A SCALE OF 1.5X THE SCALE OF THE TEST WITH A TEMPERATURE OUTPUT MUST BE USED TO REFLECT THE PRESSURE INCREASE AS THE LINE IS BEING PRESSURIZED AND THE PRESSURE DECREASE AFTER THE TEST IS DEEMED SUCCESSFUL BY UTILITY OWNER.
    d. TEST PRESSURE FOR NEW SERVICE LINES SHALL BE 150 PSIG (+5,-0) FOR A DURATION AS SPECIFIED IN UTILITY OWNER'S TECHNICAL SPECIFICATIONS. COORDINATE WITH UTILITY OWNER INSPECTOR FOR GUIDANCE ON TESTING EXISTING MAINS AND SERVICE LINES. TEST MEDIUM SHALL BE AIR.

5. TEST PRESSURE AND MEDIUM FOR HIGH PRESSURE DISTRIBUTION STEEL PIPELINES HAVING AN MAOP ABOVE 100 PSIG:
    a. STEEL PRESSURE TEST PARAMETERS:
    TEST MEDIUM: WATER
    MINIMUM TEST PRESSURE: 1110 PSIG (+15, -0)
    MAXIMUM TEST PRESSURE: 1125 PSIG
    DURATION OF TEST: 12 HOURS
    THESE PARAMETERS APPLY IF THE ENTIRE LENGTH OF STEEL PIPING IS TO BE TESTED IN ONE CONTINUOUS PORTION. IF HYDROSTATIC TESTING IS TO BE PERFORMED ON SEPARATE PIPE PORTIONS, NOTIFY UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION.
    THE UTILITY CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR DEWATERING AND DRYING OF PIPELINE TO UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION.
    b. WHERE REQUIRED BY THE SPECIFICATIONS, UTILITY CONTRACTOR SHALL HYDROSTATICALLY TEST THE COMPLETED LINE AT ALL ASSEMBLIES THEREOF AT SUCH PRESSURES AS MAY BE DESIGNATED BY UTILITY OWNER. UTILITY CONTRACTOR SHALL FURNISH ALL WATER, HIGH PRESSURE PUMPS, FILLING PUMPS, METERS, FILLING PIGS, DEWATERING PIGS, PRESSURE GAUGES AND RECORDING CHARTS, TEMPERATURE GAUGES AND RECORDING CHARTS, TEST MANIFOLDS, AND ALL LABOR EQUIPMENT, AND OTHER MATERIALS REQUIRED.
    c. THE TEST MEDIA FOR ALL HIGH PRESSURE DISTRIBUTION STEEL PIPE TESTING SHALL BE WATER AT A PRESSURE AS SPECIFIED FOR EACH COMPONENT. A SATISFACTORY TEST SHALL BE HELD FOR THE DURATION SPECIFIED BY UTILITY OWNER (MINIMUM OF 4 HOURS ON SHORT SECTIONS OR FABRICATED ASSEMBLIES. MINIMUM TEST DURATIONS MAY BE LENGTHENED PER EACH PROJECT) WITH THE PRESSURE BEING MAINTAINED WITHIN THE MINIMUM OF THE TEST PRESSURE REQUIRED, PRIOR TO ATTAINING THE REQUIRED TEST PRESSURE, AN INTERMEDIATE PRESSURE SHALL BE HELD ON THE LINE AND ALLOWED TO STABILIZE FOR (1) HOUR. IF NO LEAKAGE IS INDICATED, THE PRESSURE SHALL THEN BE RAISED TO THE REQUIRED TEST PRESSURE.

PIPELINE TESTING

    d. THE UTILITY OWNER MAY PROVIDE A REGISTERED PROFESSIONAL ENGINEER QUALIFIED TO WITNESS AND CERTIFY ALL HYDROSTATIC PRESSURE TESTS. THE UTILITY CONTRACTOR SHALL FURNISH THE UTILITY OWNER TWO (2) COPIES OF A COMPLETE TEST REPORT CONTAINING THE FOLLOWING INFORMATION: A DESCRIPTION OF THE FACILITIES TESTED, INCLUDING PIPE DIAMETER(S), WALL THICKNESS(ES), PIPE SPECIFICATIONS, DEADWEIGHT LOCATION, AND LENGTH(S) TESTED; UTILITY CONTRACTOR'S NAME, AND ADDRESS, NAME OF UTILITY CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR TESTING, AND NAME AND ADDRESS OF TESTING SUBCONTRACTOR, IF ANY; ORIGINAL AND ONE COPY OF ALL TEST RECORDS, INCLUDING PRESSURE RECORDING CHARTS, CHRONOLOGICAL PUMPING LOGS, WATER METER VOLUME LOGS, AND RECORDING CHARTS. TEST WATER TEMPERATURE AND AMBIENT TEMPERATURE RECORDING CHARTS, AND ANY OTHER RECORDS OF THE TEST(S). TEST RECORDS AND EXHIBITS SHALL BE ORGANIZED, ARRANGED, AND LABELED IN THE CERTIFIED TEST REPORT IN SUCH A MANNER THAT THE PERTINENT TEST DATE OF ANY SECTION OF PIPELINE OR COMPONENT IS READILY ASCERTAINABLE; AND AN ELEVATION PROFILE OF THE PIPELINE, IF VARIATIONS IN ELEVATION ALONG THE PIPELINE ARE SIGNIFICANT TO THE TEST(S), A DETAILED RESUME OF ANY LEAKS OR FAILURES, INCLUDING THE CORRECTION OR REPAIR THEREOF, DURATION OF EACH TEST OR TESTS, MINIMUM CERTIFIED TEST PRESSURES OF THE PIPELINE AS A WHOLE AND EACH INDIVIDUALLY TEST COMPONENT.

    e. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PIGGING OF EACH SECTION OF THE PIPELINE TO PURGE TEST WATER. TEST WATER REMOVED FROM THE PIPELINE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE HYDROSTATIC DISCHARGE PERMIT AND THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL TEST WATER DISCHARGE POINTS ARE TO BE MONITORED THROUGHOUT THE DEWATERING.

    f. ALL WATER USED FOR TESTING SHALL BE FRESH OR POTABLE WATER, FREE OF CONTAMINANTS, SOLUBLES, AND FOREIGN PARTICLES OR MATERIALS THAT MIGHT BE INJURIOUS TO THE PIPELINE OR IT'S COMPONENTS. ALL COSTS RELATED TO DISPOSAL SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR.

    g. ALL VOLUMES OF WATER INJECTED INTO THE PIPELINE SHALL BE ACCURATELY MEASURED, AND THE CUMULATIVE VOLUMES RECORDED AT REGULAR INTERVALS AFTER INJECTION COMMENCES. THE PUMPING LOG RECORDING INTERVAL SHALL NOT EXCEED ONE (1) HOUR.

    h. A CONTINUOUS RECORD OF WATER TEMPERATURE IN THE PIPELINE SHALL BE KEPT, COMMENCING AT THE TIME OF FILL OR BEFORE.

    i. IN THE EVENT THAT A LEAK OR FAILURE OCCURS DUE TO NEGLIGENCE OR FAULTY WORKMANSHIP ON THE PART OF THE UTILITY CONTRACTOR OR HIS AGENTS, UTILITY CONTRACTOR SHALL FURNISH ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTAL COST TO REPAIR OR REPLACE THE DEFECT AND COST FOR RETESTING THE REPAIRED OR REPLACED SECTION OF WORK. THE EXPENSE OF REPAIR OF ANY LEAK OR FAILURE THAT OCCURRED DUE TO DEFECTIVE EQUIPMENT OR MATERIAL FURNISHED BY THE UTILITY OWNER SHALL BE BORNE BY THE UTILITY OWNER.

    j. PIGS SHALL BE RUN CONTINUALLY AND IN SUCH A MANNER AS TO MOVE ANY WATER AND/OR NITROGEN REMAINING IN THE PIPELINE TO A POINT OF EXIT. FOAM PIGS SHALL BE DRY BEFORE REINSERTION INTO THE PIPELINE FOR ADDITIONAL RUNS. CUPPED OR WIRE PIGS ARE TO BE INSPECTED FOR CUP WEAR AND PARTICLES EMBEDDED IN THE BRUSHES OR CUPS. THEN CLEANED BEFORE REINSERTION. OWNER MAY REJECT FOR USE ANY PIG IT DEEMS IS DAMAGED OR IRREPARABLE.

    k. DEWATERING AND CLEANING PIG(S) SHALL BE REPEATEDLY RUN UNTIL THE PIGS EXIT THE PIPELINE CLEAN WITHOUT MOISTURE, SCALE, MUD, RUST OR OTHER CONTAMINANTS. THE PIGGING PROCESS IS INTENDED TO PROVIDE A PIPELINE WHERE THE INSIDE OF THE PIPELINE IS CLEAN AND WHERE NEW BARE METAL IS EVIDENT. THE UTILITY OWNER REPRESENTATIVE SHALL DETERMINE THE POINT IN WHICH THE PIGGING OPERATION IS COMPLETED.

    l. COMPRESSED AIR USED IN THE DRYING PROCESS SHALL BE DRIED AT THE AIR COMPRESSOR. ONLY DRY AIR SHALL BE USED IN THE PIPELINE FOR DRYING. OTHER METHODS OF DRYING ARE AS APPROVED BY UTILITY OWNER. THE PIPELINE SHALL BE DRIED TO A DEW POINT OF -25 DEGREES F.

    m. CONTRACTOR SHALL APPLY FOR AND OBTAIN COVERAGE (AND PAY ANY AND ALL ASSOCIATED FEES)UNDER THE TDEC DIVISION OF WATER RESOURCES GENERAL NPDES PERMIT FOR DISCHARGES OF HYDROSTATIC TESTS WATER (TNG670000). CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED PERMIT TO THE UTILITY OWNER. CONTRACTOR SHALL DISCHARGE ALL TEST WATER IN ACCORDANCE WITH APPROVED PERMIT. CONTRACTOR SHALL UTILIZE VACUUM (VAC) TRUCK TO DISPOSE OF TEST WATER. ALL TEST WATER SHALL BE DISPOSED OF BY CONTRACTOR IN A LEGAL MANNER OFFSITE CONSISTENT WITH THE APPROVED PERMIT. OTHER METHODS OF TEST WATER DISPOSAL SHALL BE CONSIDERED FOR CONTRACTOR'S CONVENIENCE, CONTRACTOR SHALL INCLUDE ALL COSTS IN UNIT BID FOR TRENCHED PIPING AND NO ADDITIONAL PAYMENT WILL BE MADE FOR HYDROSTATIC TESTING AND ASSOCIATED REQUIREMENTS.

    n. THE RECORDING CHART SHALL REFLECT THE PRESSURE INCREASE AS THE LINE IS BEING PRESSURIZED AND PRESSURE DECREASE AFTER THE TEST IS DEEMED SUCCESSFUL BY UTILITY OWNER.

    o. UTILITY CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION FOR PRESSURE TEST REQUIREMENTS AGAINST INDIVIDUAL PIPELINE COMPONENTS THAT WILL NOT BE PRESSURE TESTED AS PART OF THE REMAINDER OF THE PROPOSED PIPELINE. UTILITY CONTRACTOR SHALL TEST PER UTILITY OWNER. UTILITY CONTRACTOR SHALL PRE-TEST LINESTOPPER ASSEMBLIES SEPARATELY WITH INERT GAS (NITROGEN). AUTO PERF TEES USED ON STOPPED SIDE SHALL BE LIKEWISE TESTED WITH INERT GAS (NITROGEN) ONCE WELDED ONTO THE PIPELINE. IN ADDITION, IF UTILITY CONTRACTOR WISHES TO PRETEST ANY OTHER PIPELINE ASSEMBLIES FOR CONTRACTOR CONVENIENCE. UTILITY CONTRACTOR SHALL SUBMIT PLAN TO UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL TESTS AGAINST EXISTING PIPING WITH UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION. ALL OTHER PRETESTING IS FOR CONTRACTOR CONVENIENCE ONLY, AND NO ADDITIONAL PAYMENT SHALL BE ISSUED WHEN PRETESTING IS APPROVED BY UTILITY OWNER.

PURGING AND COMMISSIONING OF PIPELINE

1. UTILITY CONTRACTOR SHALL FIELD LOCATE AND PROVIDE 2"TEMPORARY VALVES AND/OR STACKS AS REQUIRED FOR PURGING/BLOWING DOWN OF PIPELINE. TEMPORARY VALVES SHALL BE RETIRED AFTER COMMISSIONING OR DECOMMISSIONING OF PIPELINE. REFERENCE UTILITY OWNER'S TECHNICAL SPECIFICATIONS FOR PURGING AND BLOWDOWN PROCEDURES AND REQUIREMENTS (INCLUDING PURGING REQUIREMENTS WHEN PIPELINE CONTAINS AN EXCESS FLOW VALVE).

2. NEW PIPELINES: BEFORE PLACING IN SERVICE, PURGE ALL NEW LINES TO REMOVE ALL AIR AND EXPLOSIVE MIXTURES, IN ACCORDANCE WITH UTILITY OWNER'S PURGING PROCEDURES AND SAFETY PRECAUTIONS.

3. EXISTING PIPELINES: BEFORE TEMPORARILY OR PERMANENTLY TAKING EXISTING PIPELINES OUT OF SERVICE, PURGE/BLOW DOWN ALL PIPELINES IN ACCORDANCE WITH UTILITY OWNER'S PURGING/BLOW DOWN PROCEDURES AND SAFETY PROCEDURES. NO PIPELINES THAT ARE OUT OF SERVICE SHALL REMAIN PRESSURIZED WITH GAS.

4. THE UTILITY OWNER'S REPRESENTATIVE WILL DETERMINE THAT ALL AIR AND TEST MEDIUM IS PURGED FROM THE PIPELINE AND NO HAZARDOUS GAS-AIR MIXTURE IS PRESENT.

5. UTILITY CONTRACTOR SHALL SUBMIT A WRITTEN PURGING, TIE-IN, AND RETIREMENT PLAN TO UTILITY OWNER PRIOR TO BEGINNING CONSTRUCTION.

REFERENCE ATMOS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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No. 109085
STATE OF TENNESSEE
Bobby Worthington
03/31/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE: N.T.S.	DATE: 3/26/2026

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NATURAL GAS RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-03B

EXCESS FLOW VALVES

1. IN ACCORDANCE WITH CFR 192, ALL NEW OR REPLACED SERVICE MUST HAVE EITHER AN EXCESS FLOW VALVE (EFV) OR SERVICE (CURB) VALVE INSTALLED. EFVS SHALL BE INCLUDED IN THE UNIT BID FOR CONNECTED PIPING AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR EFVS.
2. EFVS SHALL BE SIZED AND SELECTED IN ACCORDANCE WITH UTILITY OWNER'S CONSTRUCTION SPECIFICATIONS.
3. UTILITY CONTRACTOR SHALL FIELD VERIFY ALL EXISTING METER SIZES AND LOCATIONS WITHIN THE PROJECT SCOPE PRIOR TO BEGINNING CONSTRUCTION.
4. PRIOR TO BEGINNING CONSTRUCTION, BUT AFTER REQUIRED FIELD VERIFICATIONS, UTILITY CONTRACTOR SHALL SUBMIT AS-BUILTS SHOWING PROVIDED AND SIZED EFV'S OR SERVICE VALVE FOR REVIEW AND APPROVAL BY UTILITY OWNER .

PHASING OF PIPELINE CONSTRUCTION

1. UTILITY CONTRACTOR SHALL SUBMIT A WRITTEN CONSTRUCTION SCHEDULE TO THE UTILITY OWNER OUTLINING MILESTONE COMPLETION DATES PRIOR TO BEGINNING CONSTRUCTION.

PIPELINE MARKERS

1. THE UTILITY CONTRACTOR SHALL FURNISH AND INSTALL PIPELINE MARKERS. PIPELINE MARKERS SHALL MEET THE REQUIREMENTS OF THE UTILITY OWNER'S CONSTRUCTION SPECIFICATIONS AND BE LOCATED IN ACCORDANCE WITH UTILITY OWNER'S CONSTRUCTION SPECIFICATIONS. MARKERS SHALL INCLUDE WARNING LABELS CONSISTENT WITH UTILITY OWNER'S REQUIREMENTS.
2. UTILITY CONTRACTOR SHALL INCLUDE PIPELINE MARKERS IN RESPECTIVE UNIT BID FOR TRENCHED PIPING. NO ADDITIONAL PAYMENT SHALL BE MADE FOR INSTALLATION OF PIPELINE MARKERS.

RAISING AND LOWERING OF FACILITIES FOR PAVING

1. PRIOR TO SUBMITTING BID ON PROJECT, UTILITY CONTRACTOR SHALL FIELD VERIFY EXISTING VALVE COVER LOCATIONS WITHIN THE PROPOSED TDOT AREA OF REPAVING/RESURFACING AND IMPROVEMENTS.
2. THE UTILITY CONTRACTOR SHALL TEMPORARILY ADJUST/LOWER ALL VALVE BOXES AND COVERS WITHIN THE AREA OF THE PROJECT TO INCLUDE RESURFACING/REPAVING AND IMPROVEMENTS. UTILITY CONTRACTOR SHALL ADJUST/LOWER FACILITIES AS REQUIRED TO ALLOW FOR MILLING MACHINES TO TRAVERSE THE ROADWAY WITHOUT DAMAGING UTILITY ASSETS. UTILITY CONTRACTOR SHALL ADJUST OR RAISE PRIOR TO APPLICATION OF HOT MIX ASPHALT (HMA). PRIME CONTRACTOR SHALL COORDINATE WITH UTILITY AND HMA PAVING CONTRACTOR TO GRADE HMA AWAY FROM VALVE COVER TO PREVENT WATER ENTRY INTO VALVE BOX. UTILITY CONTRACTOR SHALL RAISE OR LOWER BOX EXTENSIONS AS REQUIRED TO ACCOMMODATE ACTUAL FINISHED GRADE ELEVATION. RAISING AND LOWERING OF EXISTING FACILITIES SHALL BE INCLUDED IN UNIT BID FOR TRENCHED PIPING AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR RAISING AND LOWERING OF FACILITIES.

CLEARING AND TRIMMING

1. ALL TREE AND/OR BRUSH CLEARING/TRIMMING ON THE PUBLIC RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR, AND NO ADDITIONAL PAYMENT SHALL BE MADE UNDER DIVISION 791 FOR TREE AND/OR BRUSH REMOVAL ON PUBLIC RIGHT-OF-WAY.
2. UTILITY CONTRACTOR SHALL PERFORM ALL WORK TO THE SATISFACTION OF THE UTILITY OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY, MUNICIPAL AND OTHER LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, AS WELL AS WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE Z133.1 AND A300.
3. TREE AND/OR BRUSH TRIMMING AND CUTTING SHALL BE DONE IN ORDER TO OBTAIN TEN (10) FEET OF CLEARANCE ON BOTH SIDES OF THE CENTERLINE OF THE MAIN PIPELINES, AND SERVICE PIPELINES LARGER THAN 2" FROM THE GROUND TO THE SKY, EXCEPT WHERE OTHERWISE SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
4. ALL GROWTH SHALL BE CLEARED WITHIN FIVE (5) FEET OF ALL SERVICE PIPELINES 2" AND SMALLER WITH THE USE OF LATERAL PRUNING ONLY, UNLESS OTHERWISE INSTRUCTED BY THE UTILITY OWNER.
5. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED STRUCTURE REMOVAL ON PUBLIC RIGHT-OF-WAY TO ALLOW FOR INSTALLATION OF PIPELINE AS SHOWN ON THE CONTRACT DRAWINGS.
6. FOR ALL TREES THAT ARE CUT, THE UTILITY CONTRACTOR SHALL ENSURE THAT THE TREES ARE CUT FLUSH WITH THE GROUND WITH STUMPS REMOVED AS REQUIRED FOR INSTALLATION OF THE PIPELINE.
7. THE UTILITY CONTRACTOR SHALL PERFORM ALL WORK IN A REASONABLE, SAFE AND SECURE FASHION TO COMPLY, AT A MINIMUM, WITH ALL SAFETY AND SECURITY REQUIREMENTS OF ALL GOVERNMENT AUTHORITIES TO PERFORM THE WORK IN SUCH A MATTER AS TO PREVENT ACCIDENTS TO THE PUBLIC OR ANY DAMAGE TO PROPERTY.
8. ALL WORK IS TO BE DONE WHILE THE FACILITIES ARE PRESSURIZED, AND THEREFORE, THE UTILITY CONTRACTOR SHALL GUARD AGAINST INTERFERENCE WITH THE NORMAL OPERATION OF THE NATURAL GAS FACILITIES TO ENSURE THERE IS NO DAMAGE TO THE PIPELINE.

RETIREMENT OF EXISTING FACILITIES

1. ALL EXISTING UTILITY OWNER ASSETS WILL BE RETIRED IN PLACE UNLESS NOTED OTHERWISE. FOR ALL UNDERGROUND FACILITIES THAT ARE RETIRED IN PLACE, ENSURE THAT THE PIPE IS PURGED WITH AIR, AND PLATES OR PLUGS WELDED ON EACH END OR SECURED BY ANOTHER METHOD AS SHOWN ON THE CONTRACTOR DRAWINGS. ANY RETIRED ABOVE GROUND FACILITIES SHALL BE DISCONNECTED, OFFERED TO THE UTILITY OWNER, AND OTHERWISE DISPOSED OF BY CONTRACTOR.
2. ALL RETIRED VALVES SHALL BE REMOVED TO INCLUDE: VALVE, VALVE BOX, AND COVER. CAP PIPE ENDS AT VALVE REMOVAL. BACKFILL SHALL BE FLOWABLE FILL UNDER EXISTING AND PROPOSED AREAS OF PAVING.
3. PRIME CONTRACTOR SHALL COORDINATE WITH THE UTILITY CONTRACTOR PRIOR TO SUBMISSION OF BID TO DEFINE EXACT SCOPE THAT IS REQUIRED ON PIPE REMOVALS THAT ARE REQUIRED FOR INSTALLATION OF STORM DRAIN PIPING AND STRUCTURES. PRIME CONTRACTOR SHALL INCLUDE ALL REQUIRED EXCAVATION, BACKFILLING, TRAFFIC CONTROL, TEMPORARY PAVEMENT, ETC. WHEN REMOVAL IS REQUIRED FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION. UTILITY CONTRACTOR SHALL INCLUDE ALL REQUIRED PROVISIONS FOR CUTTING/CAPPING/AND PHYSICAL REMOVAL AND DISPOSAL OF PIPE ONLY.
4. UTILITY CONTRACTOR SHALL REVIEW PRIOR TO SUBMISSION OF BID ALL OTHER DRAWINGS THAT ARE CONTAINED WITHIN THE STATE'S CONTRACT PLAN SET TO INCLUDE THIRD PARTY UTILITIES. UTILITY CONTRACTOR WILL INCLUDE ANY AND ALL REMOVAL OF THIRD PARTY UTILITIES THAT ARE SHOWN AS RETIRED IN PLACE THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE GAS PIPELINES AS SHOWN ON THE CONTRACT DRAWINGS. THIS SHALL BE INCLUDED IN THE TRENCHED QUANTITY UNIT PRICE.
5. PRIME CONTRACTOR SHALL COORDINATE WITH ALL THIRD PARTY UTILITY CONTRACTORS PRIOR TO SUBMISSION OF BID TO ENSURE THAT THOSE THIRD PARTY UTILITY CONTRACTORS INCLUDE WITHIN THE THIRD PARTY'S QUANTITY BIDS ANY AND ALL REMOVALS OF EXISTING GAS PIPELINES THAT ARE SHOWN AS BEING RETIRED IN PLACE THAT MAY BE REQUIRED FOR THE INSTALLATION OF THOSE THIRD PARTY'S FACILITIES.

MISCELLANEOUS REQUIREMENTS

1. THE PRIME AND UTILITY CONTRACTOR SHALL SEQUENCE CONSTRUCTION OPERATIONS SO AS TO CAUSE AS MINIMAL AS POSSIBLE INCONVENIENCE TO PROPERTY OWNERS AND THEIR NORMAL BUSINESS OPERATIONS AND/OR RESIDENTIAL ACTIVITIES
2. PRIOR TO INTERRUPTION OF ANY NORMAL BUSINESS OPERATIONS AND/OR RESIDENTIAL ACTIVITIES, PRIME AND UTILITY CONTRACTOR SHALL NOTIFY SAID PROPERTY OWNER A MINIMUM OF THREE (3) BUSINESS DAYS IN ADVANCE. ALL WORK SHALL BE CONSTRUCTED TO ALLOW FOR RESUMPTION OF NORMAL BUSINESS OPERATIONS AND/OR RESIDENTIAL ACTIVITIES AS QUICKLY AS POSSIBLE. PRIME AND UTILITY CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND UTILITY OWNER TO MINIMIZE THE AMOUNT OF TIME THAT THEY WILL INTERRUPT NORMAL BUSINESS OPERATIONS AND/OR RESIDENTIAL ACTIVITIES.
3. PRIME AND UTILITY CONTRACTOR SHALL NOTIFY UTILITY OWNER A MINIMUM OF FIFTEEN (15) BUSINESS DAYS IN ADVANCE OF PROPOSED START OF CONSTRUCTION. PRIME AND UTILITY CONTRACTOR WILL PROVIDE UTILITY OWNER WITH A DETAILED CONSTRUCTION SCHEDULE IDENTIFYING THE TIMELINES FOR COMPLETION OF MILESTONES OF UTILITY CONSTRUCTION.
4. PRIME AND UTILITY CONTRACTOR SHALL SCHEDULE A UTILITY PRECONSTRUCTION MEETING WITH UTILITY OWNER A MINIMUM OF THIRTY (30) BUSINESS DAYS IN ADVANCE OF PROPOSED START OF CONSTRUCTION.

REFERENCE ATMOS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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BOBBY L. WORTHINGTON
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 109586
STATE OF TENNESSEE

Bobby Worthington

03/31/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

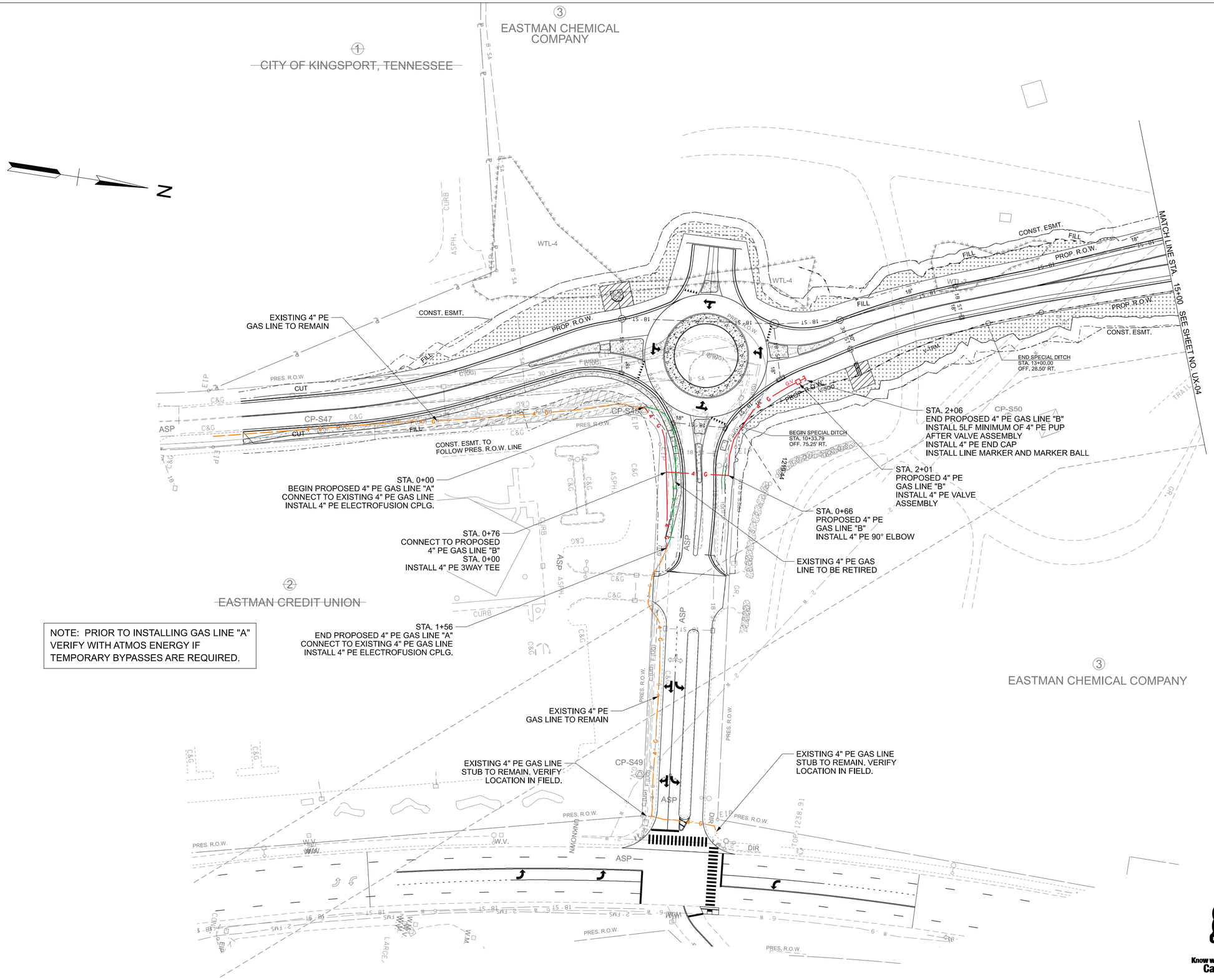
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	DATE
N.T.S.	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-04



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Bobby Worthington
03/31/2026

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ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	1"=50'
DATE	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7102

NATURAL GAS RELOCATION
STA. 10+00.00 TO STA. 15+00.00

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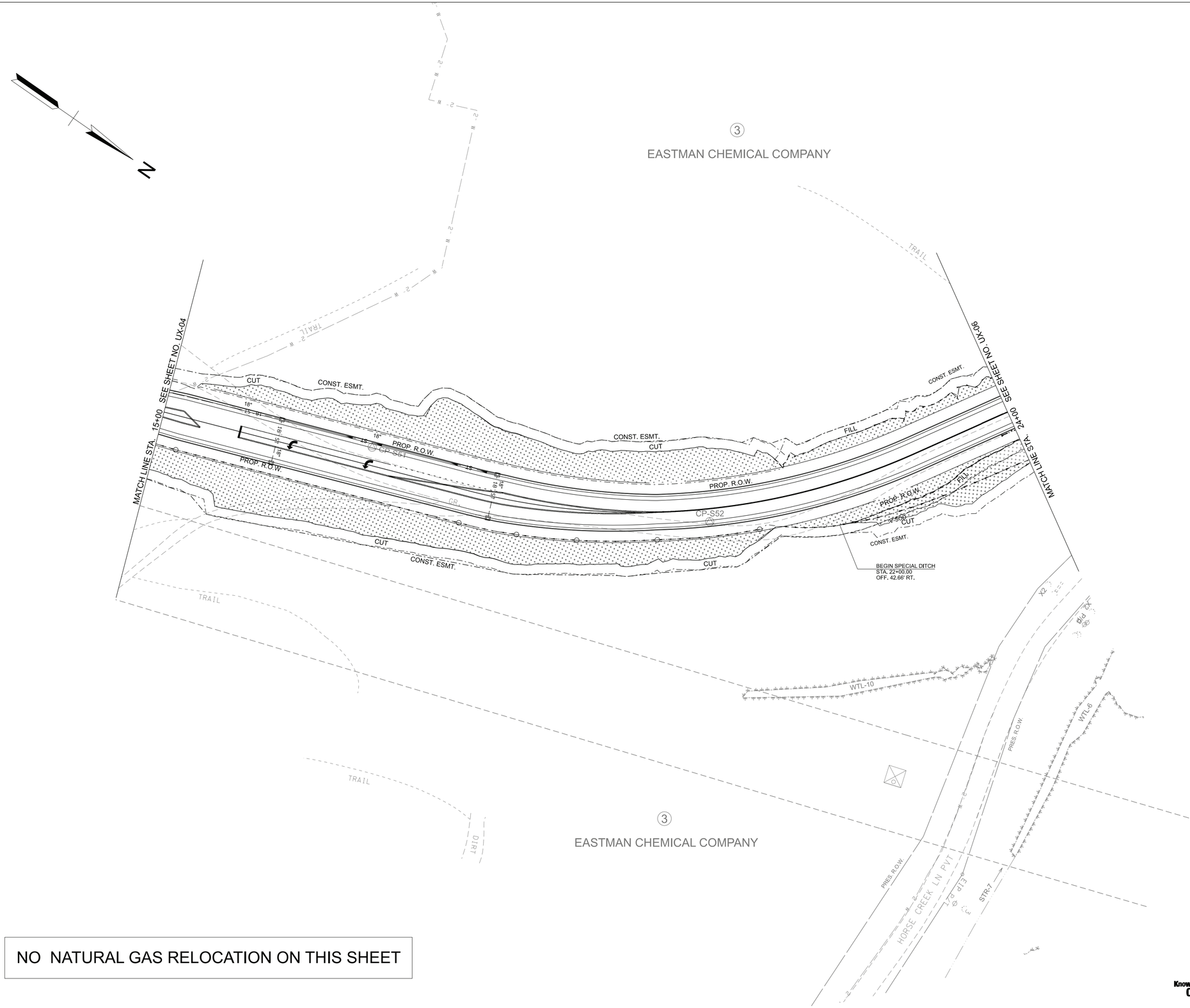
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-05



NO NATURAL GAS RELOCATION ON THIS SHEET

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03/31/2026

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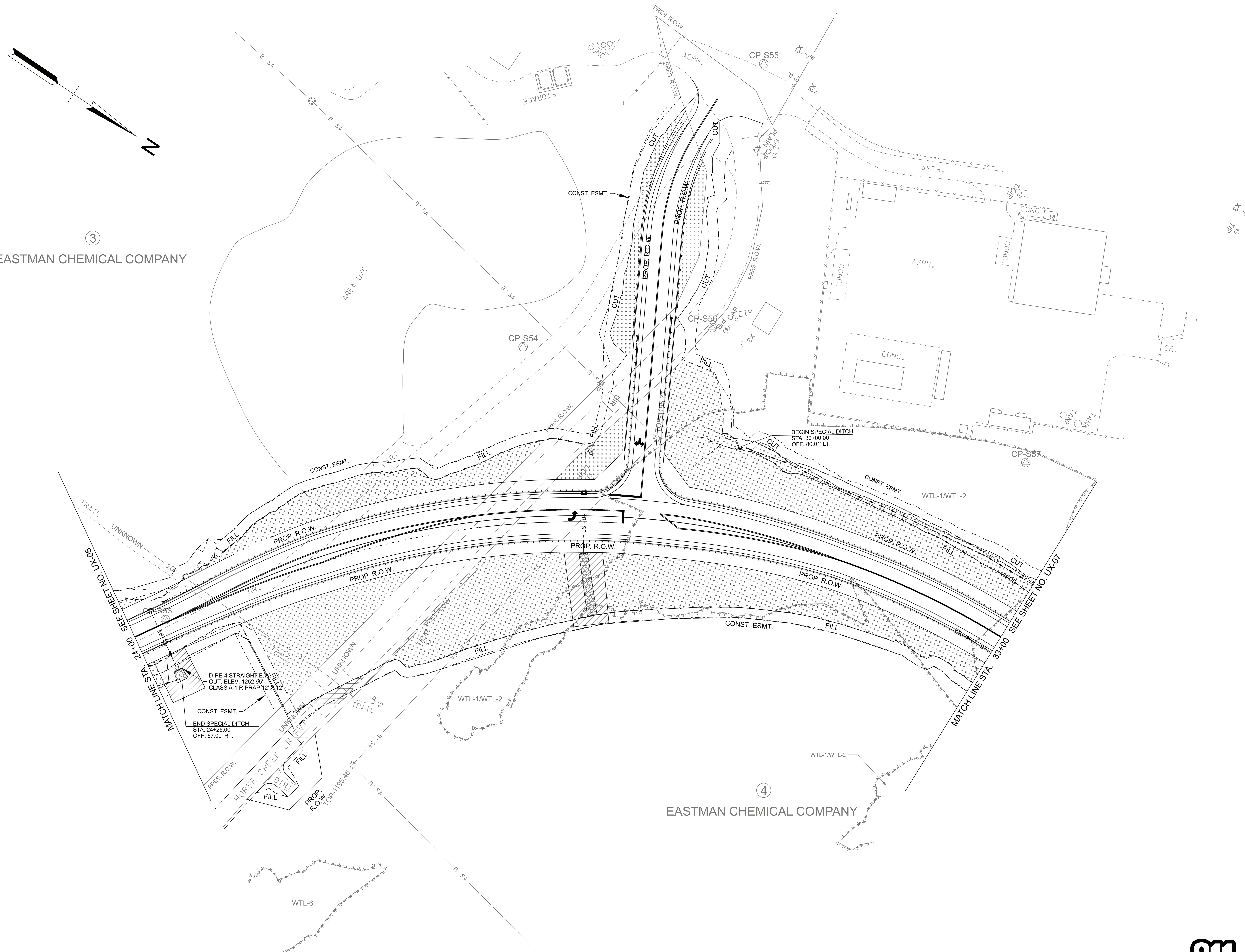
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	DATE
1"=50'	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
STA. 15+00.00 TO STA. 24+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-06



NO NATURAL GAS RELOCATION ON THIS SHEET

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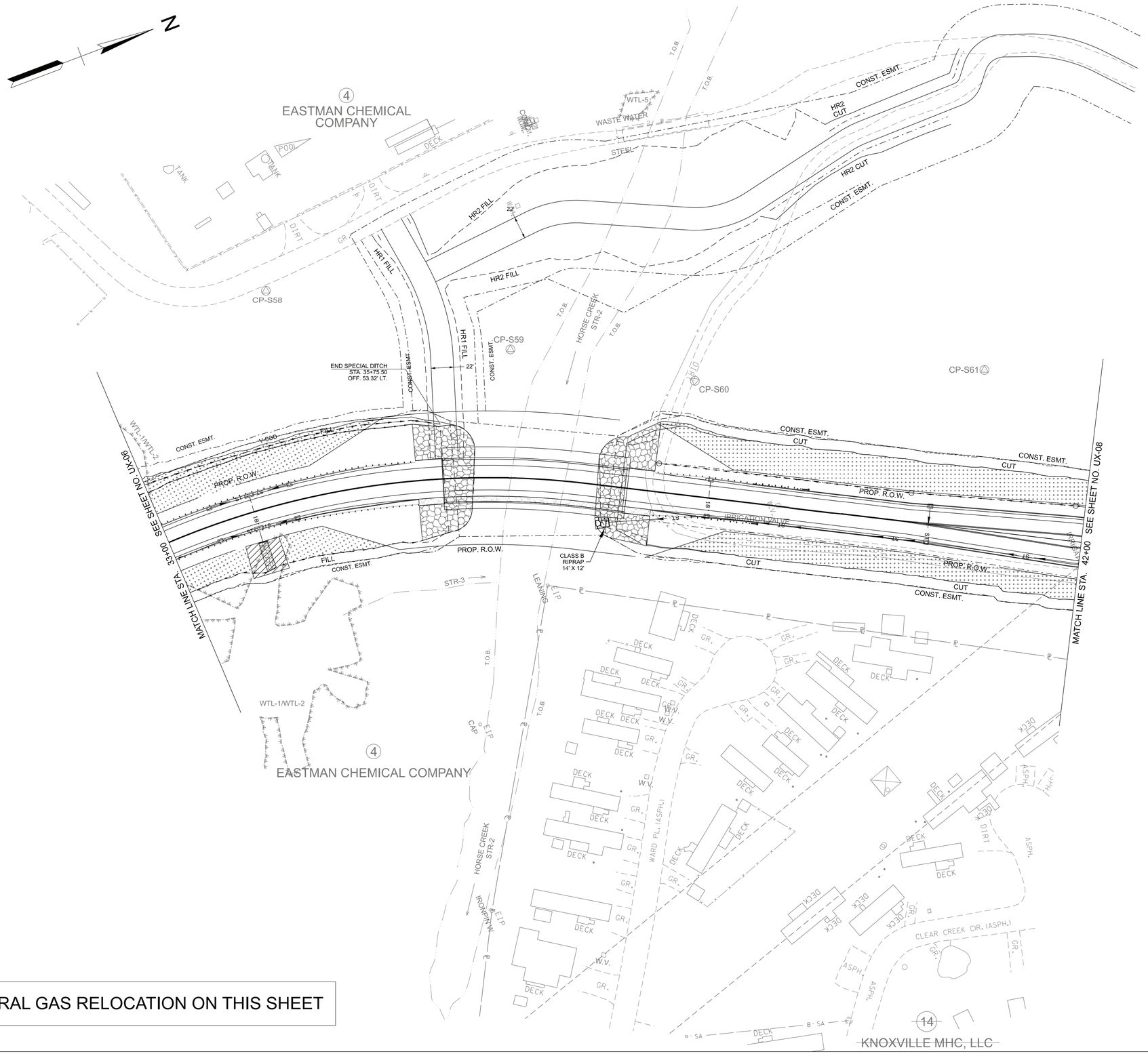
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	DATE
1"=50'	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
STA. 24+00.00 TO STA. 33+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-07



NO NATURAL GAS RELOCATION ON THIS SHEET

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No. 20805
STATE OF TENNESSEE

03/31/2026

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ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	1"=50'
DATE	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7152

NATURAL GAS RELOCATION
STA. 33+00.00 TO STA. 42+00.00

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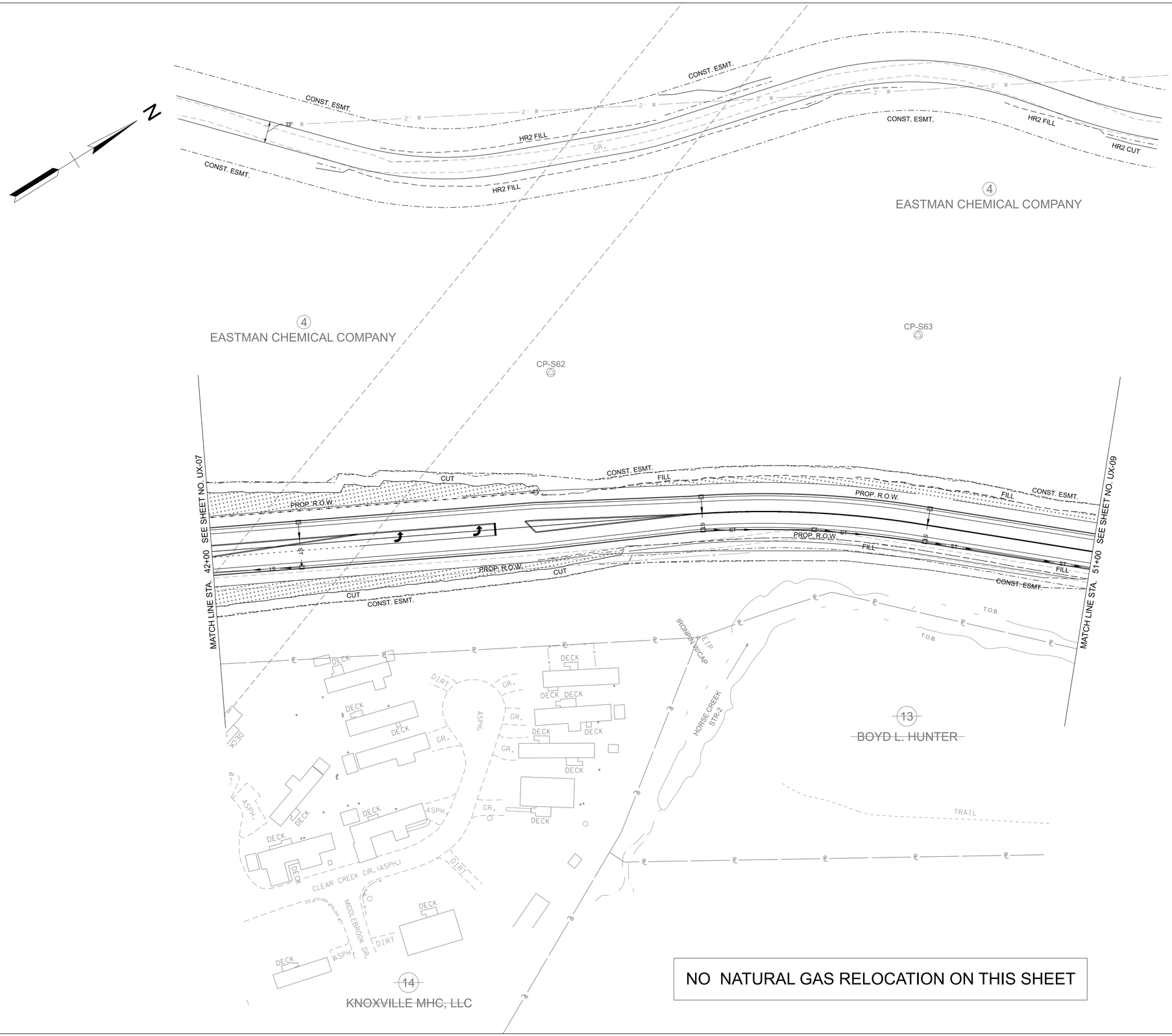
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-08



NO NATURAL GAS RELOCATION ON THIS SHEET

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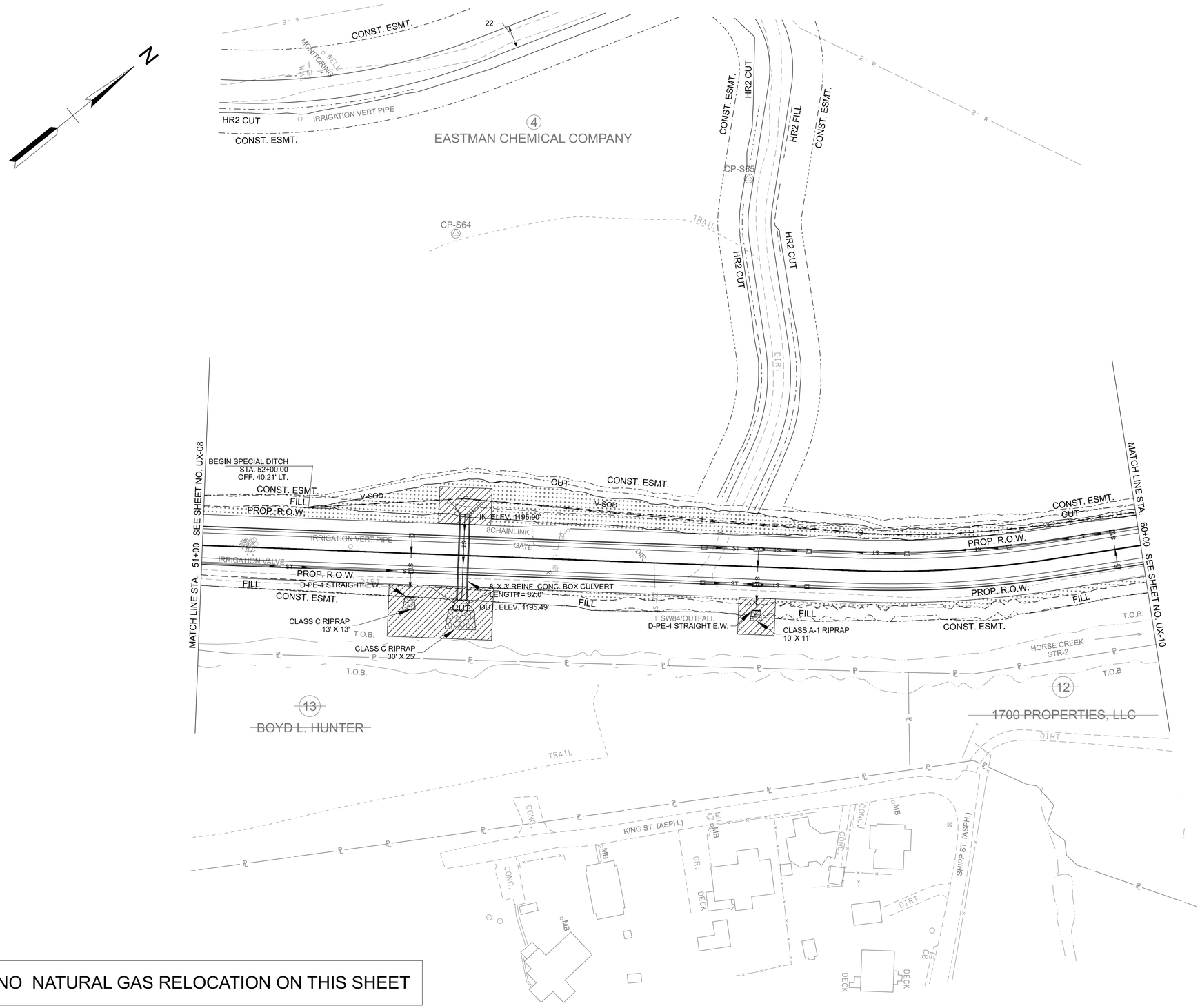
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	1"=50'
DATE	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
STA. 42+00.00 TO STA. 51+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-09



NO NATURAL GAS RELOCATION ON THIS SHEET

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03/31/2026

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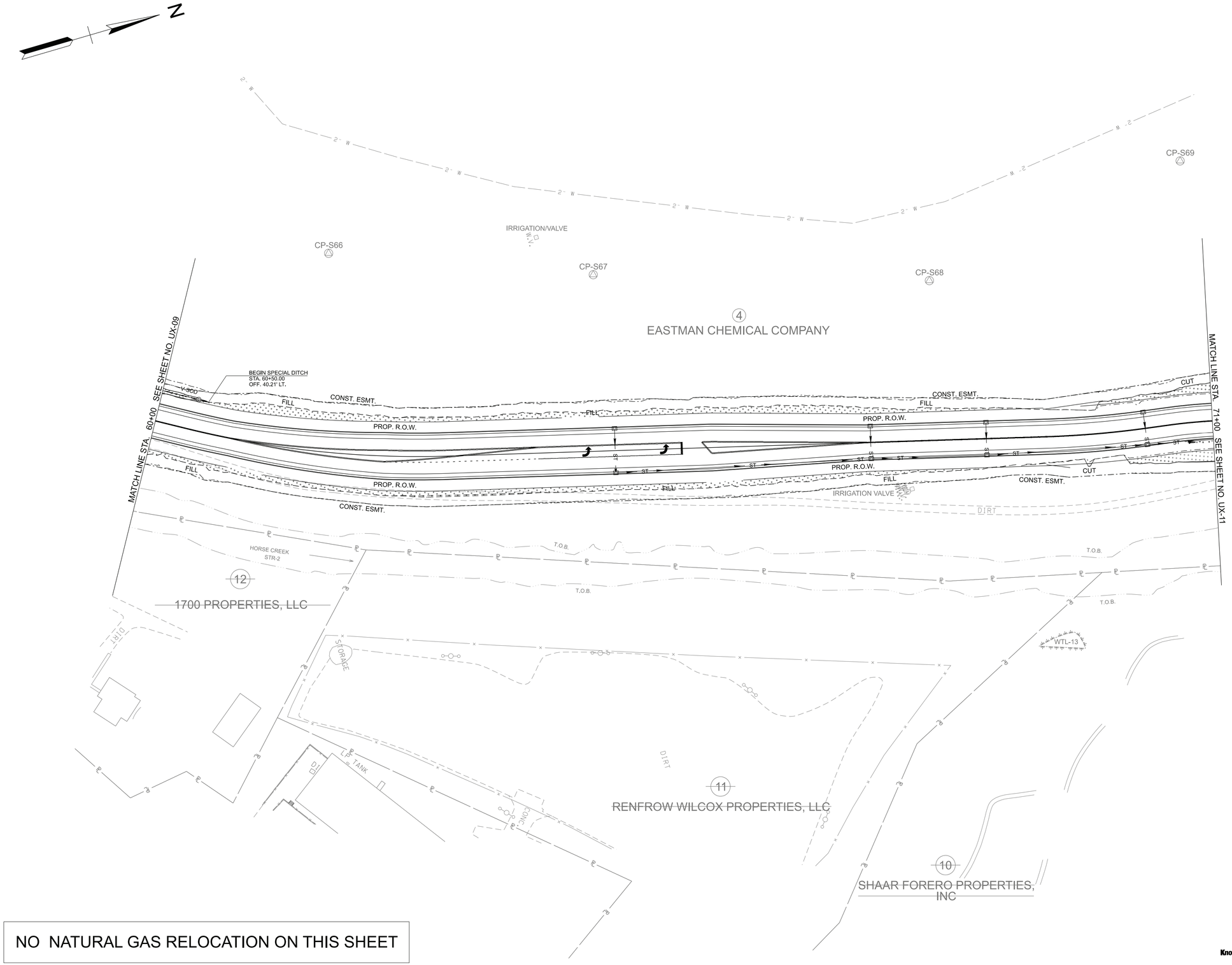
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	DATE
1"=50'	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
STA. 51+00.00 TO STA. 60+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-10



NO NATURAL GAS RELOCATION ON THIS SHEET

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03/31/2026

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ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	1"=50'
DATE	3/26/2026

Gresham Smith
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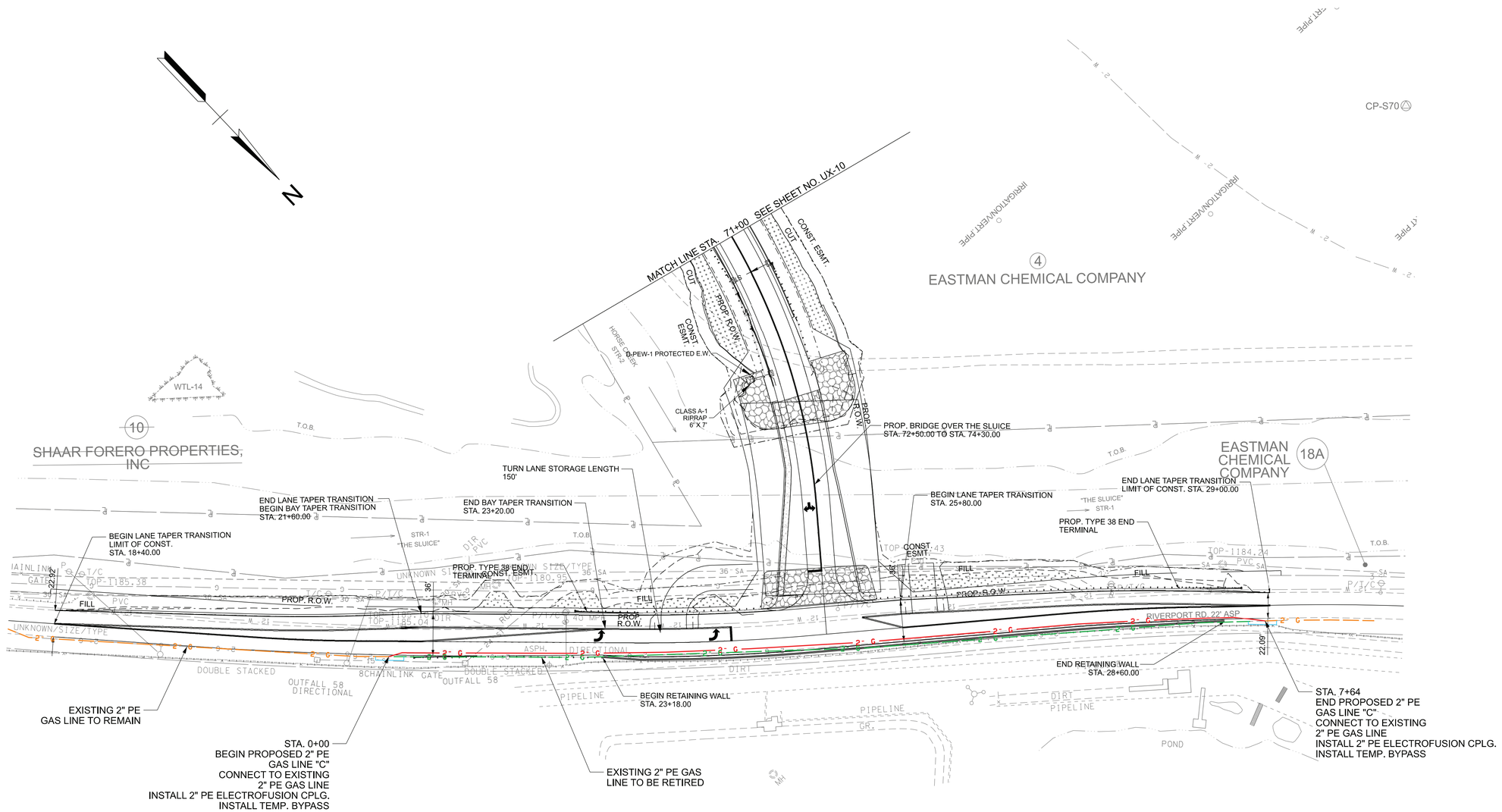
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS RELOCATION
STA. 60+00.00 TO STA. 71+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-11



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AGRICULTURE COMMERCE
STATE OF TENNESSEE

03/31/2026

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ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	1"=50'
DATE	3/26/2026

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KNOXVILLE, TENNESSEE 37922
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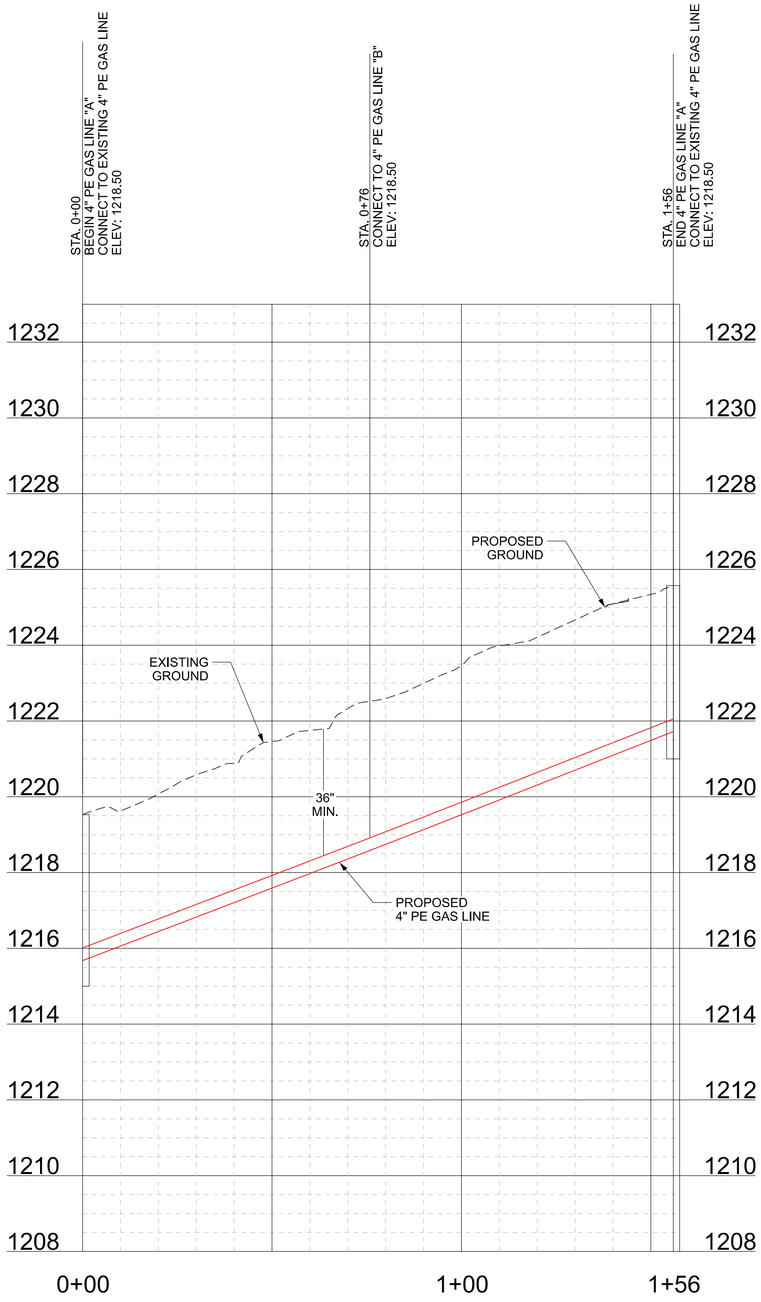
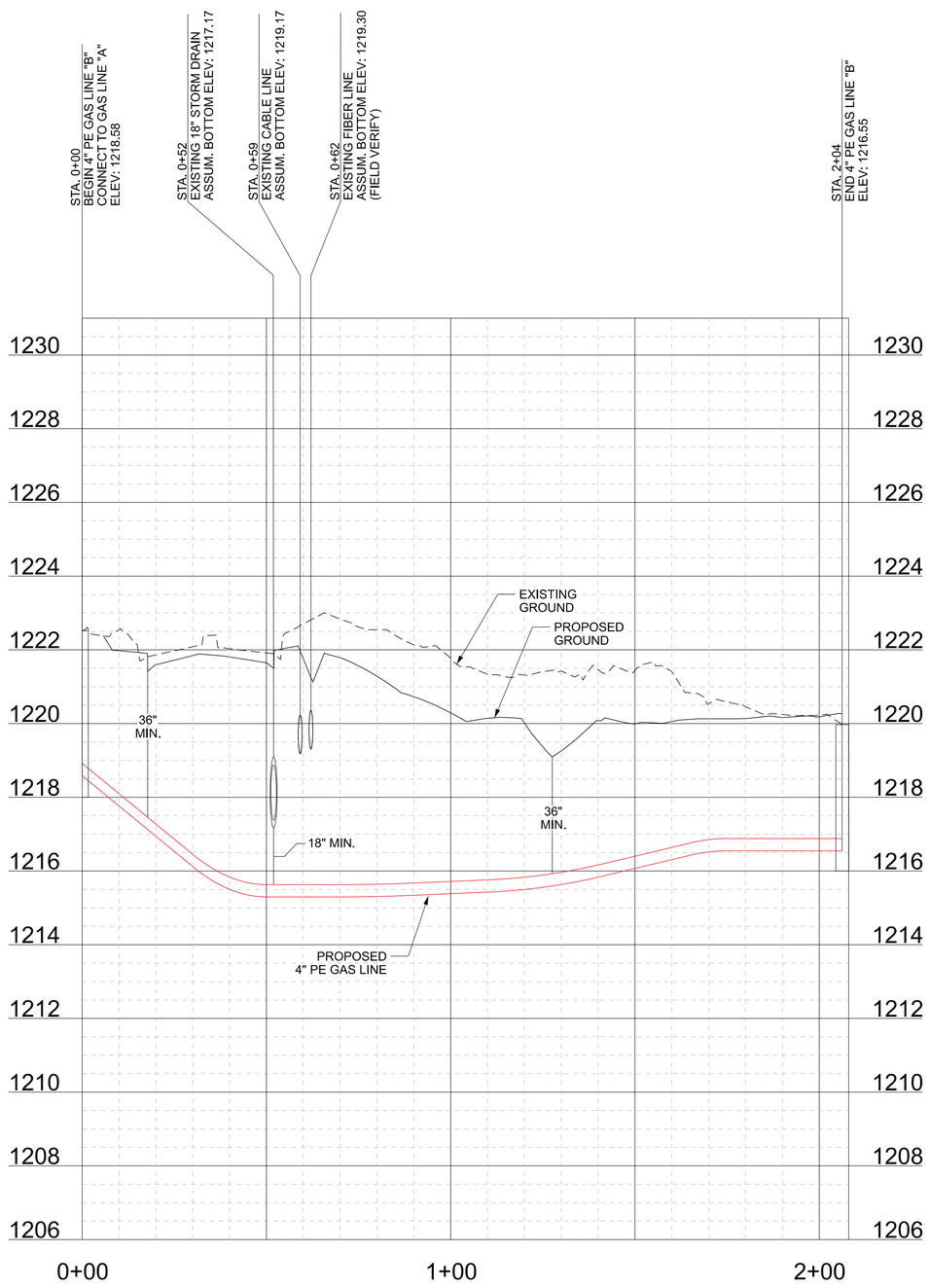
NATURAL GAS RELOCATION
STA. 71+00.00 TO STA. 74+59.91

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-12

REVISION 04.22.2026: REVISED PROFILE "B" DEPTH
EXISTING 18" STORM DRAIN



4" PE NATURAL GAS LINE "A"
(REF. SHEET U2-04)
STA. 0+00 TO 1+56
1"=20' H, 1"=2' V



4" PE NATURAL GAS LINE "B"
(REF. SHEET U2-04)
STA. 0+00 TO 2+04
1"=20' H, 1"=2' V

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AGRICULTURE
COMMERCE
No. 20898
STATE OF TENNESSEE

04/22/2026 Bobby Worthington

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DATUM ADJUSTED BY THE FACTOR
OF 1.0003 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 18.

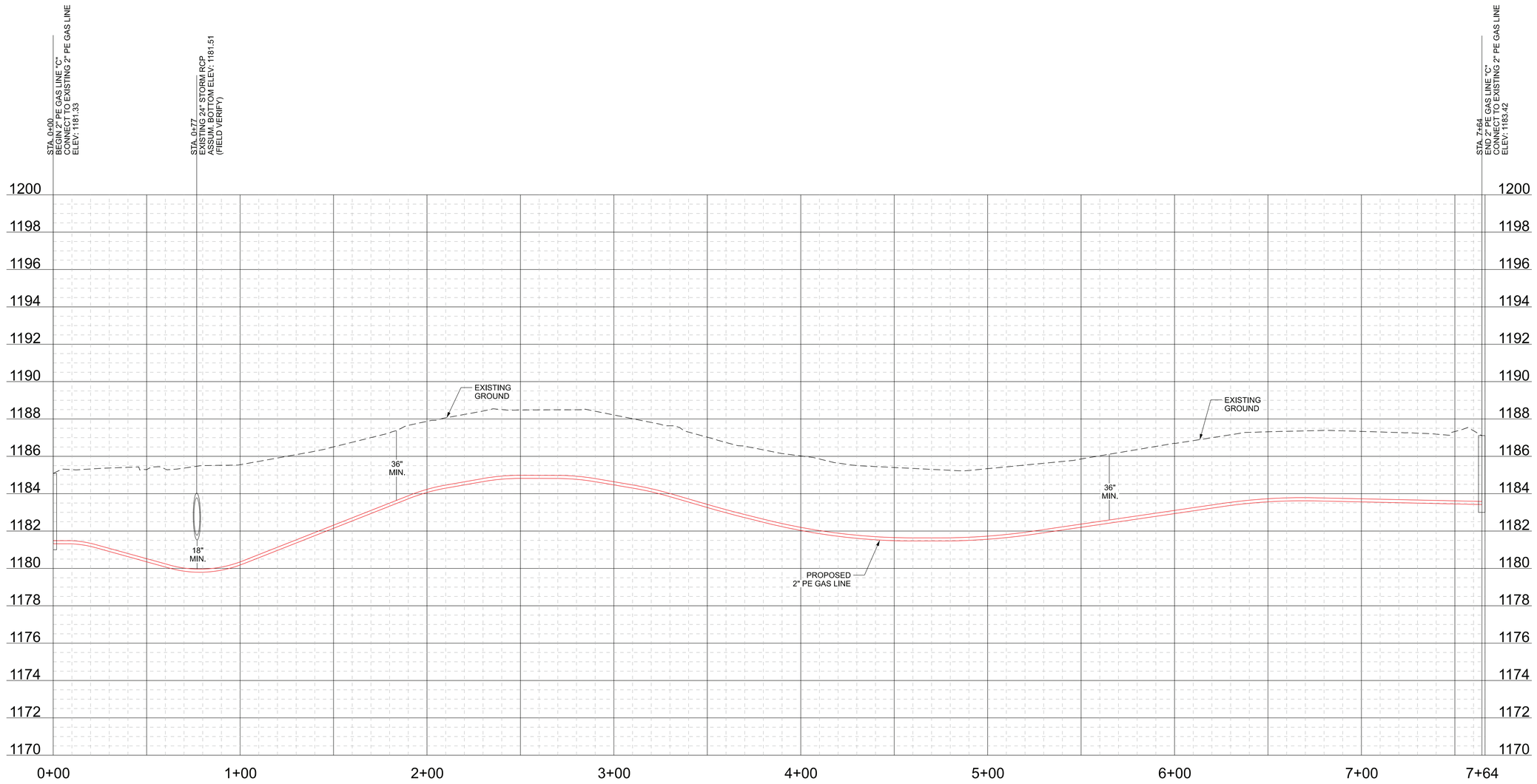
ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	DATE
AS NOTED	4/22/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-8777 (866) 539-7192

NATURAL GAS PROFILE
GAS LINE "A" - STA. 0+00 TO STA. 1+56
GAS LINE "B" - STA. 0+00 TO STA. 2+04

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-13



2" PE NATURAL GAS LINE "C"

(REF. SHEET U2-11)
STA. 0+00 TO 7+64
1"=30' H, 1"=3' V

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AGRICULTURE
COMMERCE
No. 20808
STATE OF TENNESSEE

03/31/2026

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ATMOS energy

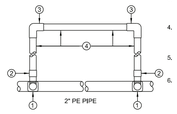
JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE H: 1"=30' V: 1"=3'	DATE 3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

NATURAL GAS PROFILE
GAS LINE "C" - STA. 0+00 TO STA. 7+64

NOTE:

REFER TO SPECIFICATIONS FOR PIPE AND FITTING REQUIREMENTS



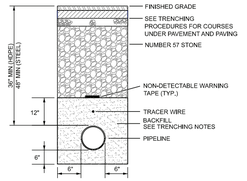
ORDER OF OPERATIONS

1. MAINTAIN CONTINUITY OF SERVICE AT ALL TIMES.
2. INSTALL NEW TEMPORARY PIPING
3. CONNECT TEMPORARY PIPING TO EXISTING PIPING, PRESSURIZE BOTH TEMPORARY AND EXISTING PIPING.
4. INTERRUPT FLOW TO EXISTING PIPING, DO SO IN A MANNER TO MAINTAIN CONTINUITY OF FLOW ALONG BYPASS
5. CONNECT PERMANENT PIPING AND REESTABLISH FLOW TO EXISTING MAINS.
6. INTERRUPT FLOW TO TEMPORARY PIPING, RETIRE TEMPORARY PIPING IN PLACE AND PERMANENTLY CAP TEMPORARY 2" PE PIPING AT TAPPING TEE.

MATERIAL LIST

ITEM	QUANTITY	DESCRIPTION
1	2	2 INCH X 3/4 INCH PE TAPPING TEE
2	2	3/4 INCH PE SOCKET FUSION COUPLING
3	1-LOT	3/4" INCH PE 90 DEG. ELL
4	AS REQ.	3/4 INCH PE PIPE

1 3/4-INCH POLYETHYLENE TEMPORARY BYPASS
NOT TO SCALE

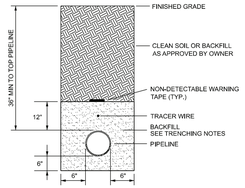


EXCAVATION

NOTE:

TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT ON OR OFF PUBLIC ROW UNLESS PLANS INDICATE FLOWABLE FILL

2 TYP. PIPELINE TRENCH UNDER PROPOSED AND EXISTING PAVEMENT
NOT TO SCALE



EXCAVATION

3 TYP. PIPELINE TRENCH ON AND OFF PUBLIC R.O.W. IN YARD AREAS
NOT TO SCALE

PIPE Ø	WIDTH
1¼"	18"
2"	18"
3"	18"
4"	18"
6"	18"
8"	24"

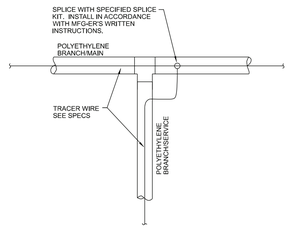
MINIMUM TRENCH WIDTHS

NOTE:
1. FOR PIPES LARGER THAN 8" IN DIAMETER, MAINTAIN 6" (MIN.) OF CLEARANCE ON BOTH SIDES OF PIPE.
2. FOR PIPING SMALLER THAT 1-1/4", MINIMUM TRENCH WIDTH SHALL BE 6".

5 MINIMUM TRENCH WIDTHS
NOT TO SCALE

NOTES:

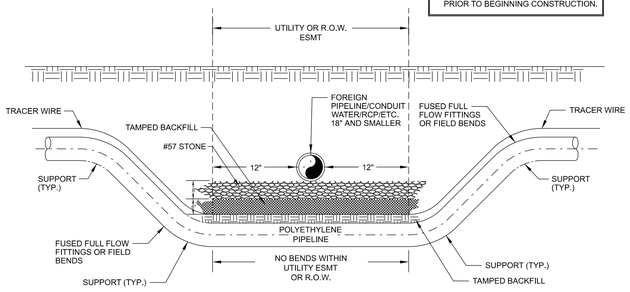
1. LOCATE ANODE PER SPECIFICATIONS.



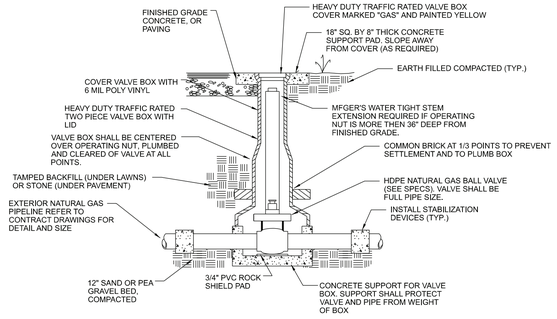
6 INSTALLATION OF TRACER WIRE AT BRANCH CONNECTION
NOT TO SCALE

NOTES:

1. FIELD LOCATE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.



7 UTILITY SEPARATION DETAIL - 18" AND SMALLER
NOT TO SCALE



9 PE VALVE BOX INSTALLATION (TYP.)
NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U2-14

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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

ATMOS energy

JOB NUMBER:	40230.54
DESIGNED:	DJL
DRAWN:	DJL
CHECKED:	BLW
SCALE	N.T.S.
DATE	3/26/2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-4777 (866) 539-7152

NATURAL GAS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-1

UTILITIES INDEX

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ESTIMATED UTILITY QUANTITIES

			Project No. 1: 82956-3594-04	
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	795-01.09	12IN DIP RESTRAINED JOINT WATER LINE	L.F.	520
1	795-01.13	16IN DIP RESTRAINED JOINT WATER LINE	L.F.	320
3	795-06.07	CONNECT TO 12IN WATER LINE	EACH	2
3	795-06.09	CONNECT TO 16IN WATER LINE	EACH	2
12	795-06.37	CUT AND CAP 12IN WATER LINE	EACH	2
12	795-06.39	CUT AND CAP 16IN WATER LINE	EACH	2
5	795-08.09	12IN GATE VALVE ASSEMBLY	EACH	2
5	795-08.13	16IN BUTTERFLY VALVE ASSEMBLY	EACH	2
9	795-12.35	REMOVAL OF EXISTING LINE 4" OD OR GREATER	L.F.	630
10	795-15.10	30IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	115

1 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, CONCRETE ENCASEMENT, THRUST BLOCKING, FITTINGS, GLANDS, RESTRAINED JOINT GASKETS, CONCRETE DEADMAN, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION INCLUDING PAVEMENT OR SIDEWALK, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

3 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

5 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

9 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM INCLUDING VALVES, VALVE BOXES, WATER METER BOXES, AND WATER METERS. REMOVAL OF EXISTING WATER LINES INCLUDES APPROXIMATELY 630-LINEAR FEET. PAYMENT AS IDENTIFIED ON ESTIMATED QUANTITIES.

10 INCLUDES ALL MATERIALS, CASING SPACERS, LABOR AND EQUIPMENT, SETUP AND TRAFFIC CONTROL. ITEM INCLUDES EXCAVATION, BEDDING AND BACKFILL, CASING SPACERS, GROUT, END SEALS, AND TEMPORARY/PERMANENT RESTORATION. CARRIER PIPE SHALL BE PAID IN ITEM 795-01.13.

12 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO CUT AND CAP THE EXISTING LINES AS DESCRIBED IN THE PLANS.

UTILITY COMPANY CONTACT

CITY OF KINGSPORT
1113 KONNAROCK ROAD
KINGSPORT, TENNESSEE 37664
CHAD AUSTIN
423-224-2509

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
AGRICULTURE
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COMMERCE
No. 0010310
STATE OF TENNESSEE
3/17/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233
BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

ESTIMATED UTILITY QUANTITIES

UTILITIES INDEX

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-2

GENERAL NOTES:

1. ALL CORRESPONDENCE TO TDOT SHALL BE ADDRESSED TO TENNESSEE DEPARTMENT OF TRANSPORTATION, REGION 1, 7345 REGION LANE, KNOXVILLE, TENNESSEE 37914. A COPY OF ALL CORRESPONDENCE ADDRESSED TO TDOT SHALL BE TRANSMITTED TO THE UTILITY.
2. ALL CORRESPONDENCE, SUBMITTALS OR OTHER ITEMS ASSOCIATED WITH THE CONTRACT SHALL BE IDENTIFIED WITH THE PROJECT OWNER, PROJECT NAME, AND TDOT PIN NUMBER AS LISTED IN THE CONTRACT DOCUMENTS.
3. CLEARING AND CLEANING OF PROJECT SITE OF PLANT LIFE AND DEBRIS SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE IN UTILITY ITEMS.
4. ALL EROSION AND SEDIMENTATION CONTROL OF PROJECT SITE SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR AND IN ACCORDANCE WITH TDEC PERMITS. UTILITY CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WATER QUALITY PERMITS AND STORM WATER POLLUTION PREVENTION PLAN. NO ADDITIONAL PAYMENT WILL BE MADE IN UTILITY ITEMS.
5. EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS MAINS AND SEWERS ARE INDICATED ON THE DRAWINGS TO THE EXTENT THAT IS SHOWN ON THE TDOT SUPPLIED DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR ACCURACY IS EXPRESSLY DISCLAIMED. CONTRACTOR SHALL CONTACT TENNESSEE ONE CALL (DIAL 811) FOR ACTUAL EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND SHALL NOT RELY UPON INFORMATION INDICATED ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS.
6. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REPAIRS AND RELATED EXPENSE.
7. ANY TEMPORARY OR PERMANENT PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE ROADWAY CONTRACT. PAYMENT FOR RESTORATION DUE TO UTILITIES SHALL BE INCIDENTAL TO THE ITEM OF WHICH IT PERTAINS.
8. THE GENERAL NOTES AND SPECIFICATIONS CONTAIN MINIMUM REQUIREMENTS FOR THIS PROJECT. UTILITY CONSTRUCTION SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE ROADWAY CONTRACT AND THE UTILITY'S STANDARD SPECIFICATION.
9. THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION WITHIN RIGHTS-OF-WAY OR EASEMENTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICES DURING CONSTRUCTION AND MAINTAIN A LIST OF EMERGENCY CONTACTS FOR EACH UTILITY IN CASE OF ACCIDENTAL UTILITY DAMAGE.
11. THE CONTRACTOR SHALL FOLLOW ALL OSHA REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES TO ENSURE ACCESS AND SAFETY AT ALL TIMES FOR MOTORISTS, PEDESTRIANS, RESIDENTS, BUSINESSES, ETC. PAYMENT FOR TRAFFIC CONTROL DUE TO UTILITES SHALL BE INCIDENTAL TO THE ITEM OF WHICH IT PERTAINS.
13. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE ROADWAY CONTRACT.
14. CONTRACTOR SHALL POT HOLE EXISTING UTILITIES TO VERIFY DEPTHS. ANY ADJUSTMENTS TO HORIZONTAL OR VERTICAL ALIGNMENTS TO AVOID ANY EXISTING UTILITIES SHALL BE APPROVED BY UTILITY OWNER PRIOR TO INSTALLATION.
15. ALL WATERLINE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND TENNESSEE PUBLIC WORKS CONSTRUCTION STANDARDS KINGSPORT, TENNESSEE, AND CITY OF KINGSPORT WATER MAINTENANCE DIVISION'S STANDARD OPERATING PROCEDURES. CONTRACTOR SHALL COORDINATE WITH CITY OF KINGSPORT TO ENSURE COMPLIANCE WITH THEIR STANDARD OPERATING PROCEDURES. ADDITIONALLY, CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND OTHER RELATED GOVERNMENT AGENCY(S) REQUIREMENTS. CITY OF KINGSPORT PUBLIC WORKS CONSTRUCTION STANDARDS ARE AVAILABLE ON THE CITY OF KINGSPORT'S WEBSITE LOCATED UNDER THE PUBLIC WORKS DEPARTMENT, ENGINEERING DOWNLOADS. ANY TRAFFIC CONTROL, CLEARING AND GRUBBING, EROSION CONTROL, ELECTRICAL AND COMMUNICATION, ROADWAY CONSTRUCTION, SIDEWALK CONSTRUCTION, STORM DRAINAGE, ROADWAY SAFETY OR MEASUREMENT AND PAYMENT SHALL BE SUPERSEDED BY TDOT REQUIREMENTS.
16. A MINIMUM OF 36 INCHES OF COVER IS REQUIRED OVER ALL NEW UTILITIES, UNLESS NOTED OTHERWISE ON THE PLANS.
17. ALL UTILITY MAINS 6 INCHES AND LARGER THAT ARE TO BE REMOVED/RETIRED SHALL BE PLUGGED AND FILLED WITH FLOWABLE FILL UNLESS REMOVED. ALL REMOVAL/RETIREMENT SHALL BE PERFORMED BY THE CONTRACTOR.
18. WATER VALVES AND VALVE BOXES SHALL NOT BE LOCATED IN SIDEWALKS. VALVE PLACEMENTS AT LINE INTERSECTIONS SHALL BE ADJUSTED AS NECESSARY.
19. ALL VALVES, BENDS, AND FIRE HYDRANT ASSEMBLIES FOR DUCTILE IRON WATERLINE INSTALLATION SHALL BE MECHANICAL JOINT RESTRAINED AND JOINTS OF WATER LINE SHALL BE RESTRAINED WITH RESTRAINING GASKETS FOR THE LENGTH OF PIPE AS SHOWN ON THE PLANS. THRUST BLOCKING FOR DUCTILE IRON INSTALLATION SHALL BE AS DIRECTED BY THE FIELD SITE REPRESENTATIVE.
20. THE HORIZONTAL AND VERTICAL BEND FITTINGS SHOWN ON THE DRAWINGS ARE NOT NECESSARILY ALL OF THE FITTINGS REQUIRED FOR THE INSTALLATION OF THE WATER LINE. IF ADDITIONAL FITTINGS ARE USED, PROPER RESTRAINT SHALL BE USED AS OUTLINED IN NOTE 19.
21. CONTRACTOR SHALL INTERCEPT EXISTING WATER SERVICES, CONNECT TO EXISTING LINE, AND SET NEW WATER METER ON THE EDGE OF RIGHT OF WAY UNLESS DIRECTED OTHERWISE BY THE CITY OF KINGSPORT.
22. CONTRACTOR SHALL COMPLY WITH ALL BUY AMERICA REQUIREMENTS PER SP106A STATE OF TENNESSEE.
23. FOR WATERLINE UNDER PAVEMENT, TDOT BEDDING AND BACKFILL MATERIALS SHALL BE USED PER CITY STANDARD 31 23 33-3.15.C.1.
24. CONTRACTOR SHALL GIVE THE CITY OF KINGSPORT FIVE BUSINESS DAYS NOTIFICATION FOR ALL PLANNED WATER OUTAGES.
25. ALL WORK DONE ON THE CUSTOMER SIDE OF WATER METER SHALL BE BY LICENSED PLUMBER. CONSTRUCTION SHALL BE COORDINATED WITH EACH SPECIFIC PROPERTY OWNER/CUSTOMER.

LEGEND

- W — PROPOSED WATER LINE
- SA — PROPOSED SANITARY SEWER LINE
- W — EXISTING WATER LINE TO REMAIN
- SA — EXISTING SEWER LINE TO REMAIN
- W — EXISTING WATERLINE TO REMOVE/RETIRE
- SA — EXISTING SEWER LINE TO REMOVE/RETIRE
- EASEMENT LINE
- PROPOSED VALVE
- PROPOSED AIR RELIEF VALVE (ARV)
- PROPOSED HYDRANT ASSEMBLY

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BARGE DESIGN SOLUTIONS
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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

GENERAL NOTES AND LEGEND

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-3

TDOT STANDARD GENERAL NOTES:

1. EXCEPT FOR EROSION SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.

2. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.

3. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.

4. IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.

5. FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.

6. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APPROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.

7. DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

TDOT STANDARD UTILITY NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-4

15

5

10

CITY OF KINGSPORT, TENNESSEE ①

EASTMAN CHEMICAL COMPANY ③

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00	PARK MEADOW PLACE =
STA. 10+00.00	MEADOW PARK LANE =
STA. 92+00.00	SPRING MEADOW COURT
N 811689.4126 E 2979062.6905	

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

MATCH LINE STA. 15+00 SEE SHEET NO. U3-5

PROP. R.O.W.
MEADOW PARK LANE
N20°17'44"W
N29°12'23"W
N09°35'55"W
N01°53'45"W
N26°04'05"W
PARK MEADOW PLACE
N13°16'13"W
PRES. R.O.W.
GROUND OBSCURED
TRAIL
CP-S50
2" WATER MAIN PREVIOUSLY RETIRED
PROP. CURB RAMP PER CR-20
CP-S47
CP-S48
CP-S49
CB-1
CB-2
CB-3
CB-4
CB-5
CB-6
CB-7
CB-8
CB-9
CB-10
CB-11
CB-12
CB-13
4-BR-EASTMAN CREDIT UNION
EASTMAN CREDIT UNION ②
EASTMAN CHEMICAL COMPANY ③
FLOWERBED
ROUNDABOUT
ROCK
WTL-4
ASPH.
CURB
FLAG
ASP
PVC
C&G
F (UG)
C (UG)
S (UG)
W (UG)
W.V.
W.M.
DIR
SA
ST
TOP-1213.49
INV-1207.95
INV-1201.16
TOP-1213.59
TOP-1213.51
INV-1209.62
TOP-1218.80
INV-1211.07
INV-1214.36
INV-1210.54
TOP-1219.63
INV-1211.92
INV-1211.97
TOP-1219.70
INV-1212.38
TOP-1220.93
INV-1216.91
INV-1216.88
TOP-1219.26
INV-1215.25
INV-1215.14
TOP-1220.72
INV-1216.30
INV-1216.35
TOP-1224.47
INV-1220.67
INV-1220.63
TOP-1225.06
INV-1220.99
TOP-1227.47
INV-1223.30
TOP-1227.64
INV-1222.35
INV-1221.03
TOP-1220.24
TOP-1220.26
INV-1216.56
TOP-1214.98
INV-1205.88
TOP-1215.00
INV-1205.98
INV-1209.96
STA. 1+00.00
N: 811214.4116
E: 2978201.8842
STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457
S.R. 126 (S. WILCOX DRIVE)
EXISTING 12" WATER MAIN TO REMAIN
EXISTING 6" WATER MAIN TO REMAIN
TOP-1236.30
INV-1232.40
TOP-1235.25
INV-1232.55
AIR RELEASE
TOP-1237.16
BOTTOM-1233.56
TOP-1238.91
TOP-1236.90
18" RCP
6"
WATER
WATER SYSTEM UNIT
WATER/DOORS-BOLTED SHUT
LANDSCAPE
UNKNOWN
N83°56'56"E
N86°26'16"E
SPRING MEADOW COURT

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
AGRICULTURE
ENGINEER
No. 0010310
STATE OF TENNESSEE

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BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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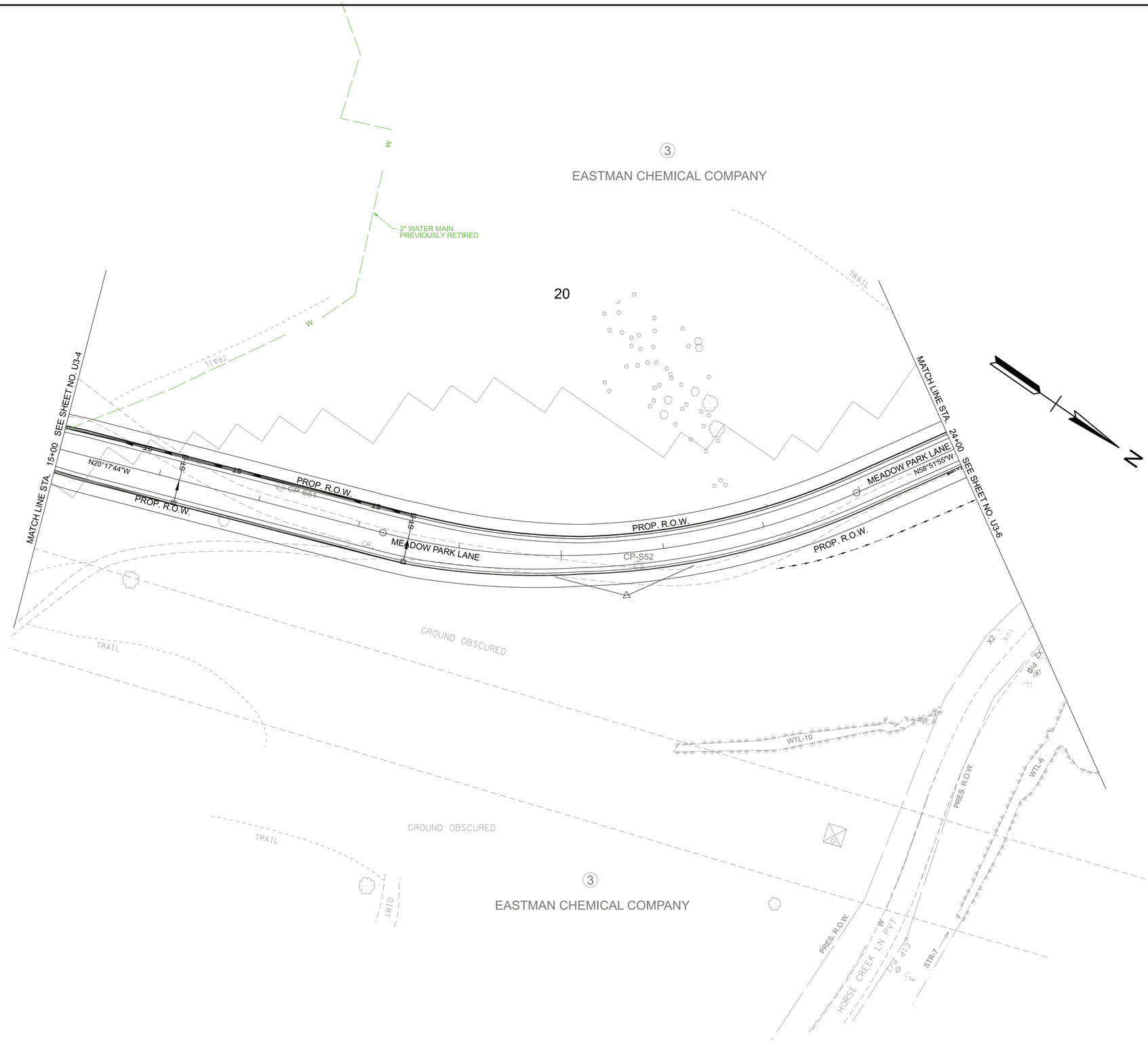
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-5

NO WATER LINE
RELOCATION THIS SHEET



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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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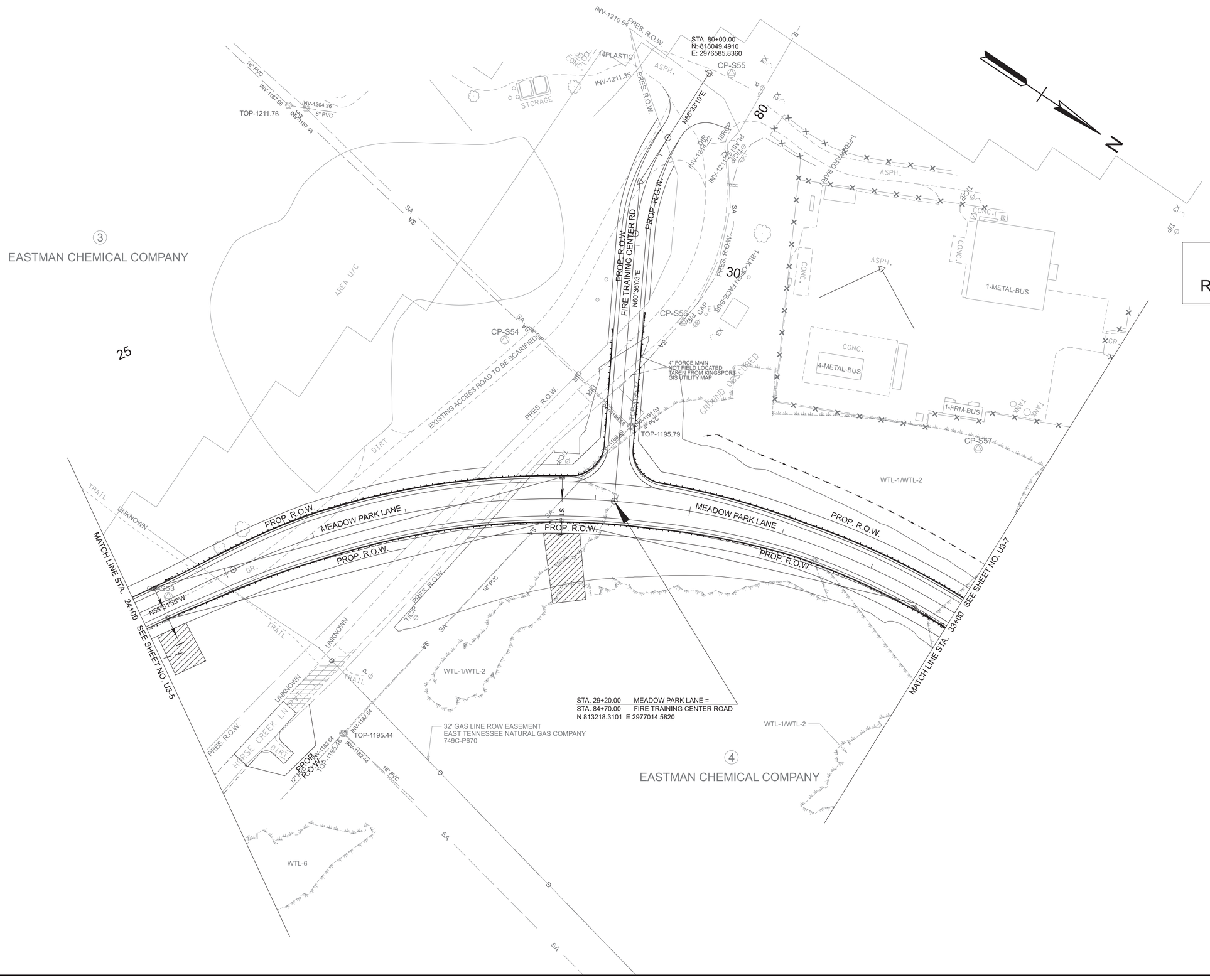
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-6



NO WATER LINE RELOCATION THIS SHEET

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 24+00.00 TO STA. 33+00.00
SCALE: 1" = 50'

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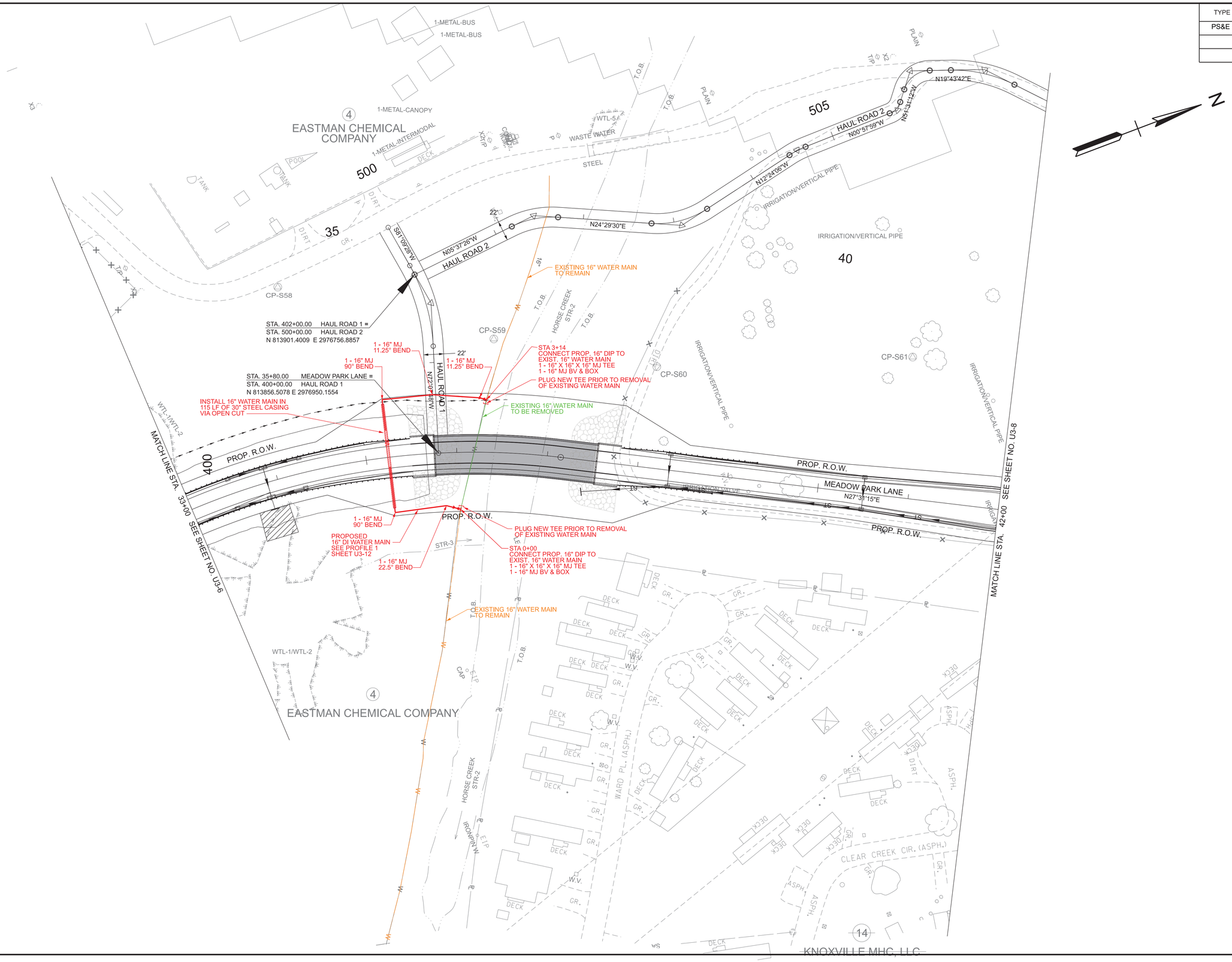
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-7



SEALED BY

WILLIAM E. LAWRENCE
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STATE OF TENNESSEE
3/17/26

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-8

NO WATER LINE
RELOCATION THIS SHEET

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

3/18/2026 10:33:55 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-9

N

NO WATER LINE
RELOCATION THIS SHEET

SEALED BY

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PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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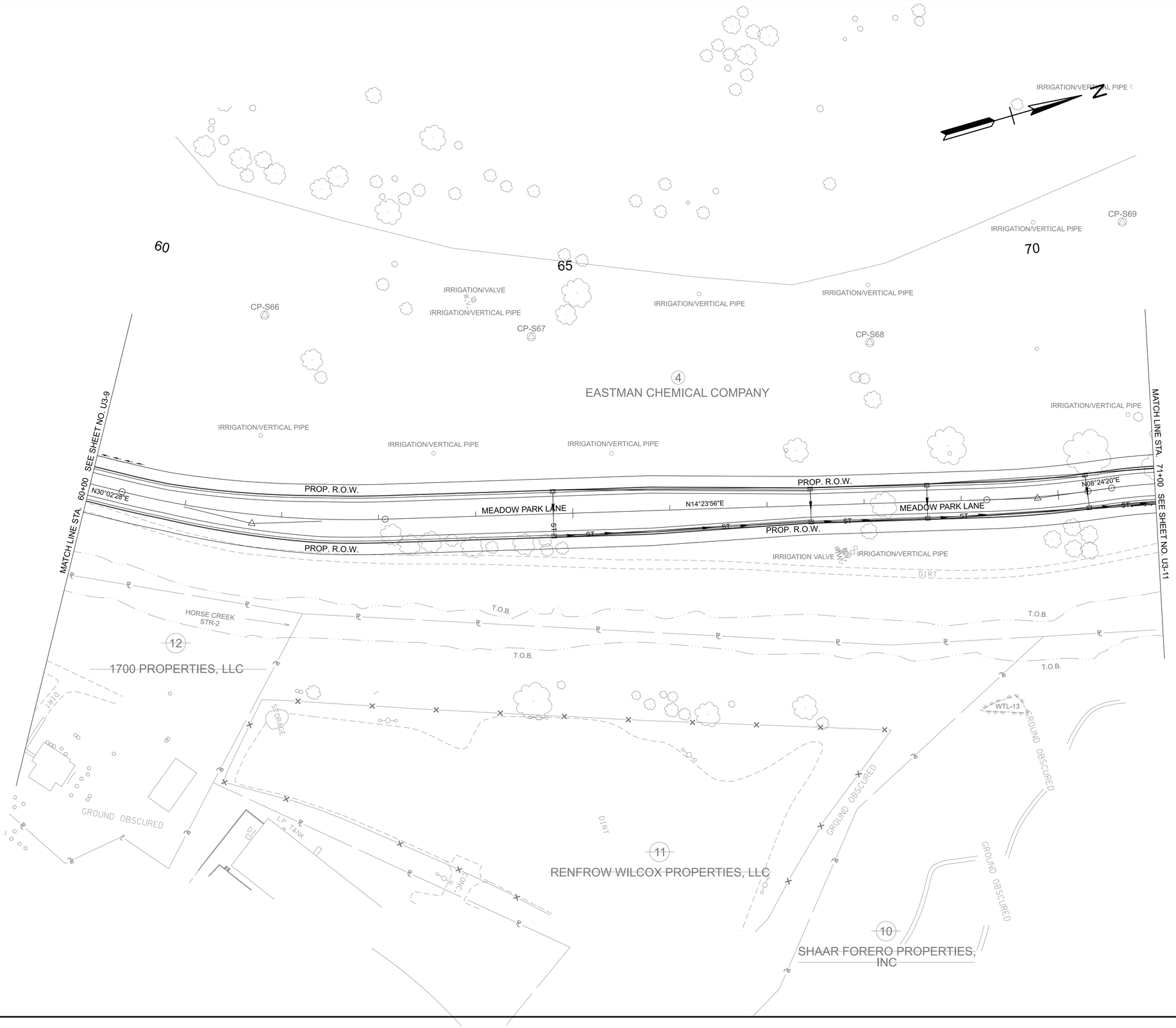
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-10



NO WATER LINE
RELOCATION THIS SHEET

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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

BARGE DESIGN SOLUTIONS
Four Sherkton Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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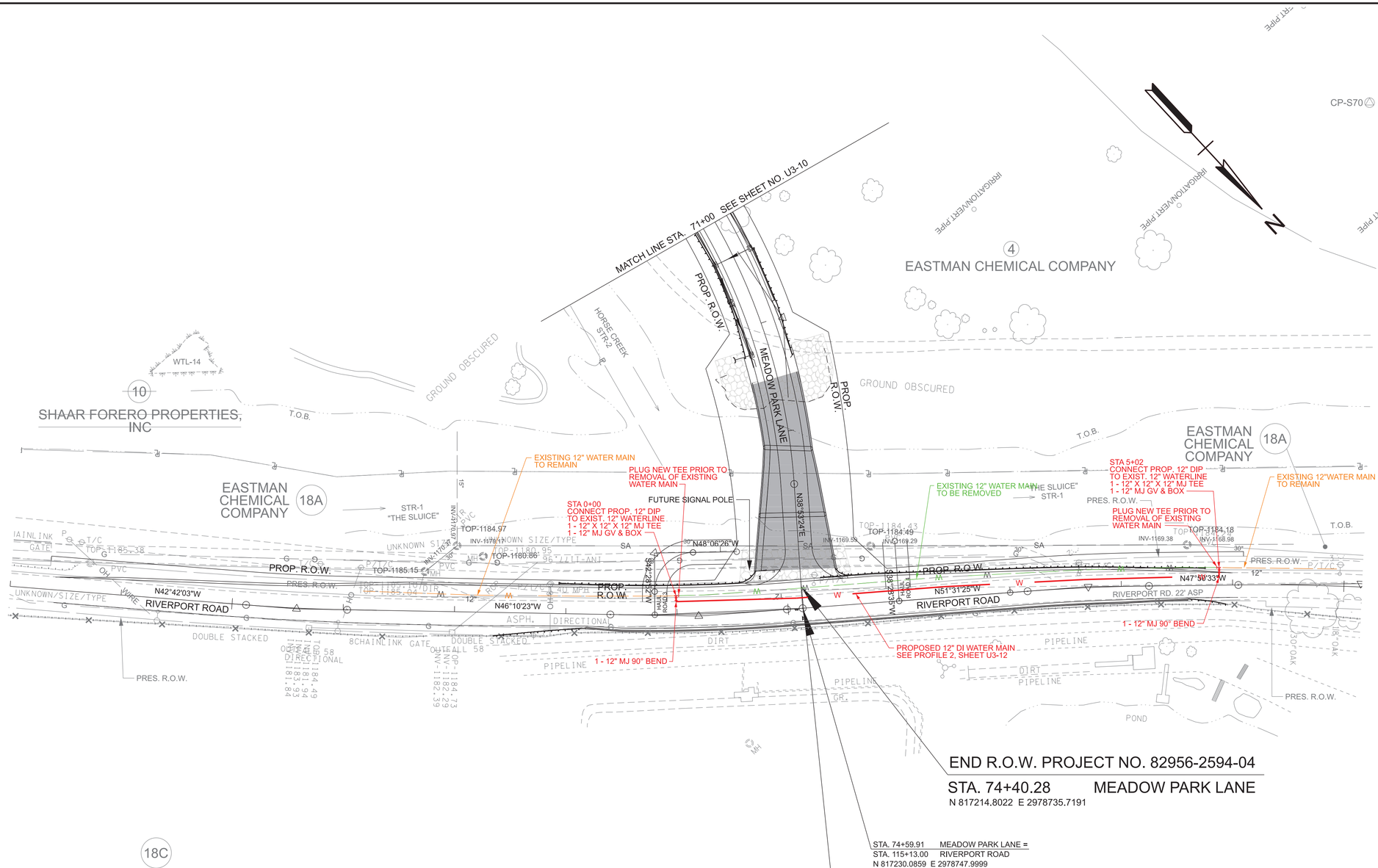
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-11



END R.O.W. PROJECT NO. 82956-2594-04

STA. 74+40.28 MEADOW PARK LANE

N 817214.8022 E 2978735.7191

STA. 74+59.91 MEADOW PARK LANE =
STA. 115+13.00 RIVERPORT ROAD
N 817230.0859 E 2978747.9999

END CONST. PROJECT NO. 82956-3594-04

STA. 74+35.91 MEADOW PARK LANE

N 817211.4044 E 2978732.9311

SEALED BY

WILLIAM E. LAWRENCE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 001.03109 STATE OF TENNESSEE

3/17/26

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PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PLAN

STA. 71+00.00 TO STA. 74+29.35
SCALE: 1" = 50'

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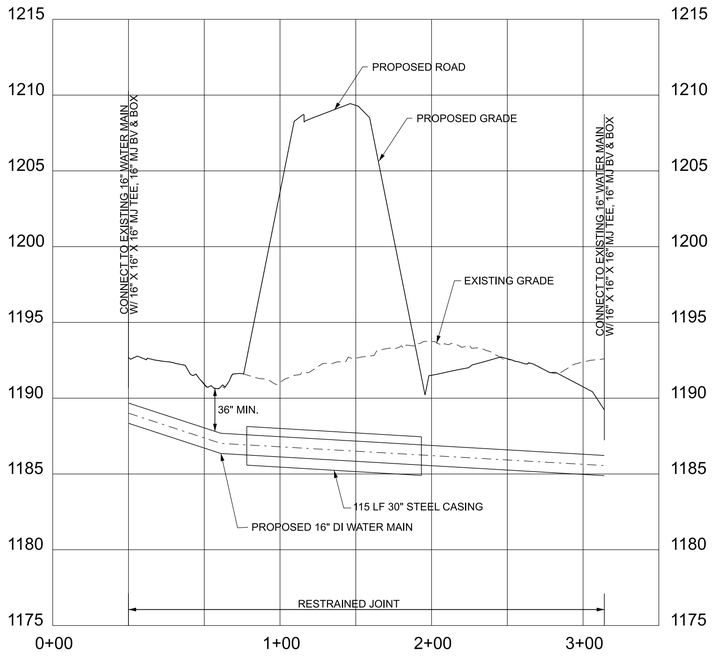
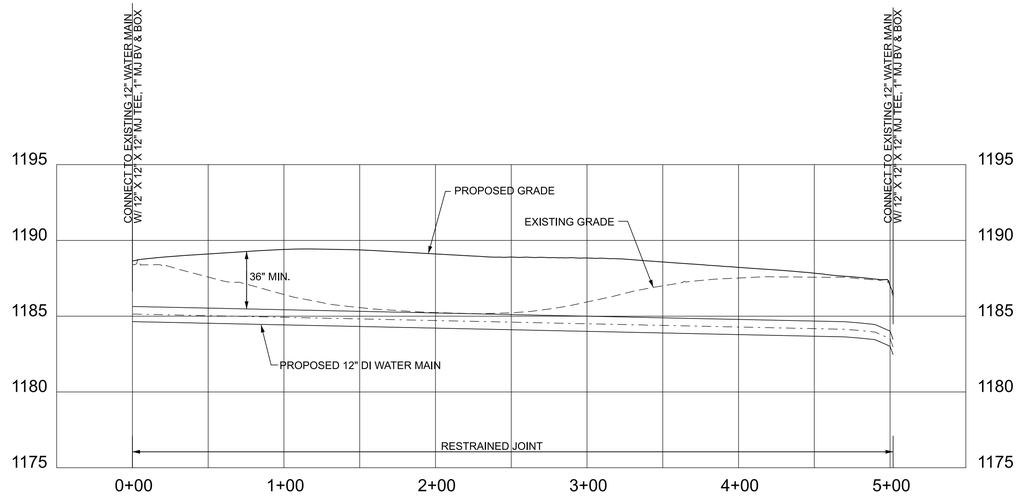
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U3-12



WATER LINE PROFILE 1

(SEE PLAN SHEET U3-7)

SCALE: 1"=50' HORIZ
1"=5' VERT

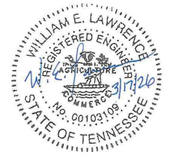


WATER LINE PROFILE 2

(SEE PLAN SHEET U3-11)

SCALE: 1"=50' HORIZ
1"=5' VERT

SEALED BY



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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

WATER LINE PROFILES

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-1

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
ESTIMATED UTILITY QUANTITIES	U4-1
GENERAL NOTES AND LEGEND	U4-2
TDOT STANDARD UTILITY NOTES	U4-3
SANITARY SEWER PLAN STA. 10+00 TO STA. 15+00	U4-4
SANITARY SEWER PLAN STA. 15+00 TO STA. 24+00	U4-5
SANITARY SEWER STA. 24+00 TO STA. 33+00	U4-6
SANITARY SEWER STA. 33+00 TO STA. 42+00	U4-7
SANITARY SEWER STA. 42+00 TO STA. 51+00	U4-8
SANITARY SEWER STA. 51+00 TO STA. 60+00	U4-9
SANITARY SEWER STA. 60+00 TO STA. 71+00	U4-10
SANITARY SEWER STA. 71+00 TO STA. 74+29.35	U4-11
SANITARY SEWER PROFILES	U4-12

ESTIMATED UTILITY QUANTITIES

Project No. 1: 82956-3594-04

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	797-02.05	3IN HDPE FORCE MAIN	L.F.	460
1	797-05.19	18IN DIP GRAVITY SEWER 12FT-18FT DEPTH	L.F.	233
1	797-05.20	18IN DIP GRAVITY SEWER >18 FT DEPTH	L.F.	125
1	797-05.51	8IN PVC GRAVITY SEWER 0FT-6FT DEPTH	L.F.	70
14	797-06.95	OPEN CUT 36IN STEEL CASING PIPR	L.F.	310
4	797-07.02	48IN MANHOLE 4FT-6FT DEPTH	EACH	2
4	797-07.17	60IN MANHOLE 12FT-14FT DEPTH	EACH	1
4	797-07.21	60IN MANHOLE 24FT-28FT DEPTH	EACH	1
6	797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EACH	1
11	797-07.80	REMOVE SEWER MANHOLE	EACH	2
3	797-10.15	CONNECT TO 3IN FORCE MAIN	EACH	1
8	797-11.32	RETIRE IN PLACE EXISTING SEWER 15IN-24IN	L.F.	417
7	797-11.38	BY-PASS PUMPING	L.S.	1

1 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, CONCRETE ANCHORS, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, TEMPORARY PAVEMENT RESTORATION, TRAFFIC CONTROL, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE PRESSURE CLASS 350, PROTECTO 401 CERAMIC EPOXY LINED, ENCASED IN V-BIO ENHANCED POLYETHYLENE, AND SHALL HAVE A MINIMUM OF A 1-FOOT ENVELOPE WITH TDOT GRADING D, CLASS A AGGREGATE COMPACTED TO 95% STANDARD PROCTOR.

3 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN, SEWER LINE, PUMP STATION, OR MANHOLE AS SPECIFIED ON PLANS, INCLUDING TRAFFIC CONTROL.

4 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER, AND TRAFFIC CONTROL.

6 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF INTERNAL MANHOLE DROP ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND

7 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, TRAFFIC CONTROL, PLUGGING OF LINES, AND ALL INCIDENTALS FOR A COMPLETE FUNCTIONAL BYPASS PUMPING SYSTEM.

8 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING FLOWABLE FILL FOR RETIRE IN PLACE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

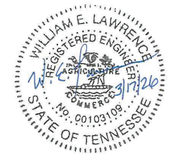
11 INCLUDES ALL LABOR, EQUIPMENT, EXCAVATION, DISPOSAL OF WASTE MATERIAL, REMOVAL OF NECESSARY BARREL SECTIONS FOR PROPER GRADE, BACKFILL, COMPACTION, AND SURFACE RESTORATION IN ACCORDANCE WITH THE PLANS.

14 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, STONE BACKFILL, TEMPORARY PAVEMENT, AND ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL.

UTILITY COMPANY CONTACT

CITY OF KINGSPORT
1113 KONNAROCK ROAD
KINGSPORT, TENNESSEE 37664
CHAD AUSTIN
423-224-2509

SEALED BY



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BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

ESTIMATED UTILITY QUANTITIES

UTILITIES INDEX

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-2

GENERAL NOTES:

1. ALL CORRESPONDENCE TO TDOT SHALL BE ADDRESSED TO TENNESSEE DEPARTMENT OF TRANSPORTATION, REGION 1, 7345 REGION LANE, KNOXVILLE, TENNESSEE 37914. A COPY OF ALL CORRESPONDENCE ADDRESSED TO TDOT SHALL BE TRANSMITTED TO THE CITY OF KINGSPORT.
2. ALL CORRESPONDENCE, SUBMITTALS OR OTHER ITEMS ASSOCIATED WITH THE CONTRACT SHALL BE IDENTIFIED WITH THE PROJECT OWNER, PROJECT NAME, AND TDOT PIN NUMBER AS LISTED IN THE CONTRACT DOCUMENTS.
3. CLEARING AND CLEANING OF PROJECT SITE OF PLANT LIFE AND DEBRIS SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE IN UTILITY ITEMS.
4. ALL EROSION AND SEDIMENTATION CONTROL OF PROJECT SITE SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR AND IN ACCORDANCE WITH TDEC PERMITS. UTILITY CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WATER QUALITY PERMITS AND STORM WATER POLLUTION PREVENTION PLAN. NO ADDITIONAL PAYMENT WILL BE MADE IN UTILITY ITEMS. CONTRACTOR SHALL PROVIDE LONG-TERM EROSION PROTECTION AT ALL MANHOLES LOCATED NEAR DRAINAGE DITCHES OR OTHER AREAS PRONE TO EROSION. ACCEPTABLE MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO RIPRAP PLACEMENT, CONCRETE COLLARS, OR EROSION CONTROL MATTING, AS DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS MAINS AND SEWERS ARE INDICATED ON THE DRAWINGS TO THE EXTENT THAT IS SHOWN ON THE TDOT SUPPLIED DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR ACCURACY IS EXPRESSLY DISCLAIMED. CONTRACTOR SHALL CONTACT TENNESSEE ONE CALL (DIAL 811) FOR ACTUAL EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND SHALL NOT RELY UPON INFORMATION INDICATED ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS.
6. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REPAIRS AND RELATED EXPENSE.
7. ANY TEMPORARY OR PERMANENT PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE ROADWAY CONTRACT. PAYMENT FOR RESTORATION DUE TO UTILITIES SHALL BE INCIDENTAL TO THE ITEM OF WHICH IT PERTAINS.
8. THE GENERAL NOTES AND SPECIFICATIONS CONTAIN MINIMUM REQUIREMENTS FOR THIS PROJECT. UTILITY CONSTRUCTION SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE ROADWAY CONTRACT AND THE UTILITY'S STANDARD SPECIFICATION.
9. THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION WITHIN RIGHTS-OF-WAY OR EASEMENTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICES DURING CONSTRUCTION AND MAINTAIN A LIST OF EMERGENCY CONTACTS FOR EACH UTILITY IN CASE OF ACCIDENTAL UTILITY DAMAGE.
11. THE CONTRACTOR SHALL FOLLOW ALL OSHA REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES TO ENSURE ACCESS AND SAFETY AT ALL TIMES FOR MOTORISTS, PEDESTRIANS, RESIDENTS, BUSINESSES, ETC. PAYMENT FOR TRAFFIC CONTROL DUE TO UTILITES SHALL BE INCIDENTAL TO THE ITEM OF WHICH IT PERTAINS.
13. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE ROADWAY CONTRACT.
14. CONTRACTOR SHALL POT HOLE EXISTING UTILITIES TO VERIFY DEPTHS. ANY ADJUSTMENTS TO HORIZONTAL OR VERTICAL ALIGNMENTS TO AVOID ANY EXISTING UTILITIES SHALL BE APPROVED BY UTILITY OWNER PRIOR TO INSTALLATION.
15. ALL SEWER LINE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND TENNESSEE PUBLIC WORKS CONSTRUCTION STANDARDS KINGSPORT, TENNESSEE, AND CITY OF KINGSPORT SEWER MAINTENANCE DIVISION'S STANDARD OPERATING PROCEDURES. CONTRACTOR SHALL COORDINATE WITH CITY OF KINGSPORT TO ENSURE COMPLIANCE WITH THEIR STANDARD OPERATING PROCEDURES. ADDITIONALLY, CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND OTHER RELATED GOVERNMENT AGENCY(S) REQUIREMENTS. CITY OF KINGSPORT PUBLIC WORKS CONSTRUCTION STANDARDS ARE AVAILABLE ON THE CITY OF KINGSPORT'S WEBSITE LOCATED UNDER THE PUBLIC WORKS DEPARTMENT, ENGINEERING DOWNLOADS. ANY TRAFFIC CONTROL, CLEARING AND GRUBBING, EROSION CONTROL, ELECTRICAL AND COMMUNICATION, ROADWAY CONSTRUCTION, SIDEWALK CONSTRUCTION, STORM DRAINAGE, ROADWAY SAFETY OR MEASUREMENT AND PAYMENT SHALL BE SUPERSEDED BY TDOT REQUIREMENTS.
16. A MINIMUM OF 30 INCHES OF COVER IS REQUIRED OVER ALL NEW UTILITIES, UNLESS NOTED OTHERWISE ON THE PLANS.
17. ALL UTILITY MAINS LARGER THAN 6 INCHES UNDER TDOT ROW THAT ARE TO BE RETIRED SHALL BE PLUGGED AND FILLED WITH GROUT UNLESS REMOVED. UTILITY LINES TO BE RETIRED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED. ALL DUCTILE IRON PIPE (DIP) LOCATED WITHIN THE EXCAVATED AREA SHALL BE REMOVED. ALL REMOVE/RETIRE SHALL BE PERFORMED BY THE CONTRACTOR. MANHOLES TO BE ABANDONED SHALL HAVE ALL INLETS AND OUTLETS PLUGGED, THE STRUCTURE CLEANED, AND FILLED WITH CRUSHED STONE TO THE TOP OF CONE OR GRADE AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL INTERCEPT EXISTING SEWER SERVICES, CONNECT TO EXISTING LINE, AND SET NEW CLEANOUT ON THE EDGE OF RIGHT OF WAY. FINAL CLEANOUT LOCATIONS SHALL BE COORDINATED WITH THE CITY OF KINGSPORT.
19. CONTRACTOR SHALL COMPLY WITH ALL BUY AMERICA REQUIREMENTS PER SP106A STATE OF TENNESSEE.
20. ALL MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE TOPS SET A MINIMUM OF 3 INCHES ABOVE FINISHED GRADE TO PREVENT SURFACE WATER INFILTRATION, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LEGEND

- W — PROPOSED WATER LINE
- SA — PROPOSED SANITARY SEWER LINE
- W — EXISTING WATER LINE TO REMAIN
- SA — EXISTING SEWER LINE TO REMAIN
- W — EXISTING WATERLINE TO REMOVE/RETIRE
- SA — EXISTING SEWER LINE TO REMOVE/RETIRE
- EASEMENT LINE
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE TO REMAIN
- EXISITNG SANITARY MANHOLE TO REMOVE/RETIRE
- PROPOSED AIR RELEASE VALVE

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BARGE DESIGN SOLUTIONS
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PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

GENERAL NOTES AND LEGEND

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-3

TDOT STANDARD GENERAL NOTES:

1. EXCEPT FOR EROSION SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.

2. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.

3. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.

4. IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.

5. FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.

6. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APPROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.

7. DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

TDOT STANDARD UTILITY NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-4

BEGIN R.O.W. PROJECT NO. 82956-2594-04
BEGIN CONST. PROJECT NO. 82956-3594-04

STA. 10+00.00 MEADOW PARK LANE

N 811689.4126 E 2978062.6905

STA. 6+00.00 PARK MEADOW PLACE =
STA. 10+00.00 MEADOW PARK LANE =
STA. 92+00.00 SPRING MEADOW COURT
N 811689.4126 E 2979062.6905

STA. 1+00.00
N: 811214.4116
E: 2978201.8842

STA. 90+60.00
N: 811685.7215
E: 2977922.7365

PROPOSED 8" SANITARY SEWER, SEE PROFILE SHEET U4-12

PROPOSED 48" MANHOLE MH 2
STA 0+69.40
N 811811.2151
E 2978057.9648

REMOVE AND REPLACE EXISTING 48" MANHOLE MH 1
STA 0+00
N 811743.7994
E 2978074.5163

PROP. CURB RAMP PER CR-20

EXISTING 8" SANITARY SEWER TO REMAIN

EXISTING 8" SANITARY SEWER TO REMAIN

EXISTING 2" SANITARY SEWER FORCE MAIN TO REMAIN

EXISTING 2" SANITARY SEWER FORCE MAIN TO REMAIN

AIR RELEASE TOP-1237.16 BOTTOM-1233.56

MATCH LINE STA. 15+00 SEE SHEET NO. U4-5

STA. 97+53.30 SPRING MEADOW COURT =
STA. 137+96.11 S.R. 126 (S. WILCOX DRIVE)
N 811743.9042 E 2978612.8457

CB-1 TOP-1213.49 INV-1207.95 INV-1201.20 INV-1201.16
CB-2 TOP-1213.59
CB-3 TOP-1213.51 INV-1209.62
CB-4 TOP-1218.80 INV-1211.07 INV-1214.36 INV-1210.54
CB-5 TOP-1219.63 INV-1211.92 INV-1211.97
CB-6 TOP-1219.70 INV-1212.38
CB-7 TOP-1220.93 INV-1216.91 INV-1216.88
CB-8 TOP-1219.26 INV-1215.25 INV-1215.14
CB-9 TOP-1220.72 INV-1216.30 INV-1216.35
CB-10 TOP-1224.47 INV-1220.67 INV-1220.63
CB-11 TOP-1225.06 INV-1220.99
CB-12 TOP-1227.47 INV-1223.30
CB-13 TOP-1227.64 INV-1222.35 INV-1221.03

1 CITY OF KINGSPORT, TENNESSEE
2 EASTMAN CREDIT UNION
3 EASTMAN CHEMICAL COMPANY
4-BR-EASTMAN CREDIT UNION

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 0010910
4/17/26

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BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 10+00 TO STA. 15+00
SCALE: 1" = 50'

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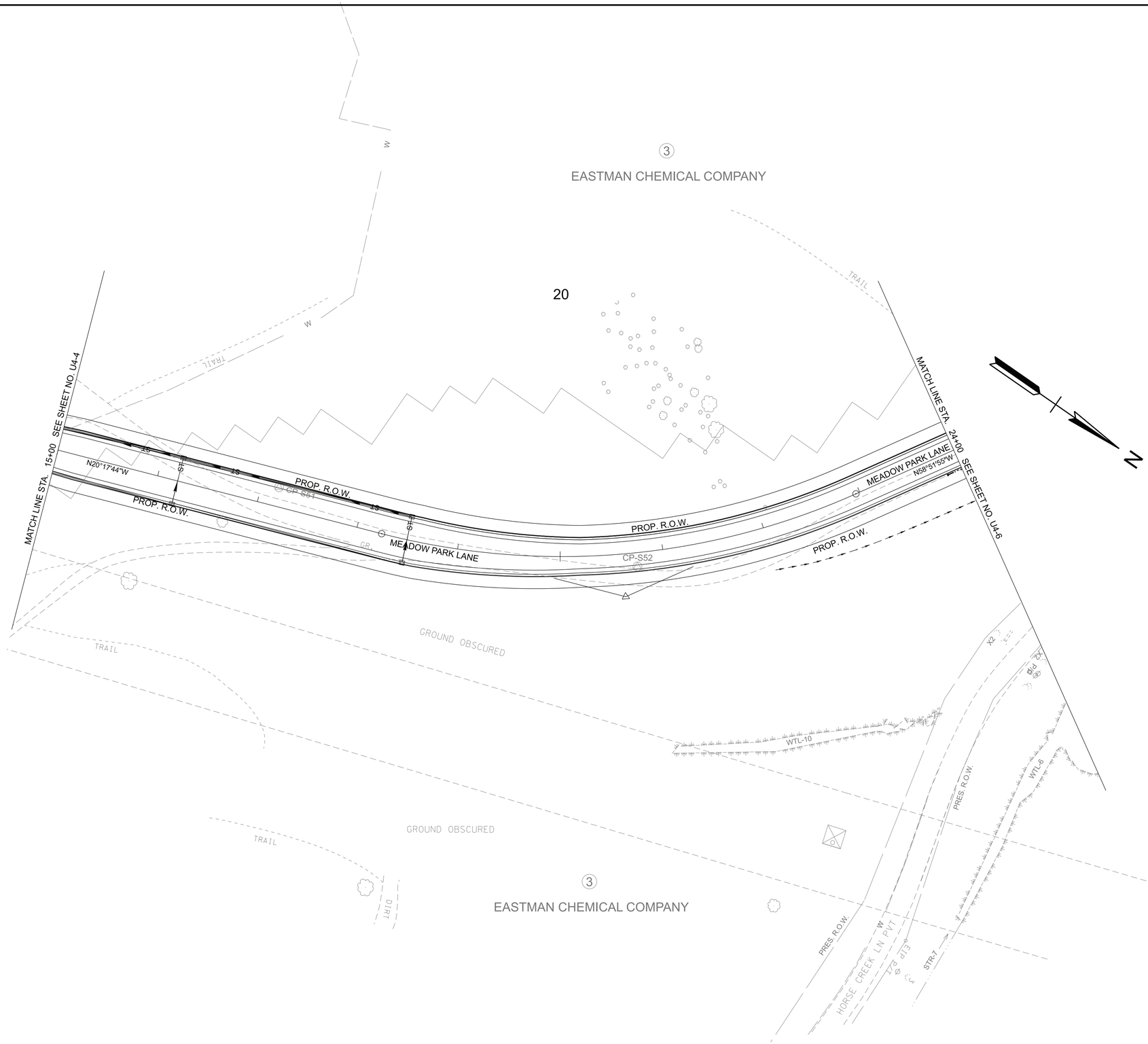
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-5

NO SANITARY SEWER
RELOCATION
THIS SHEET



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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

BARGE DESIGN SOLUTIONS

Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 15+00 TO STA. 24+00
SCALE: 1" = 50'

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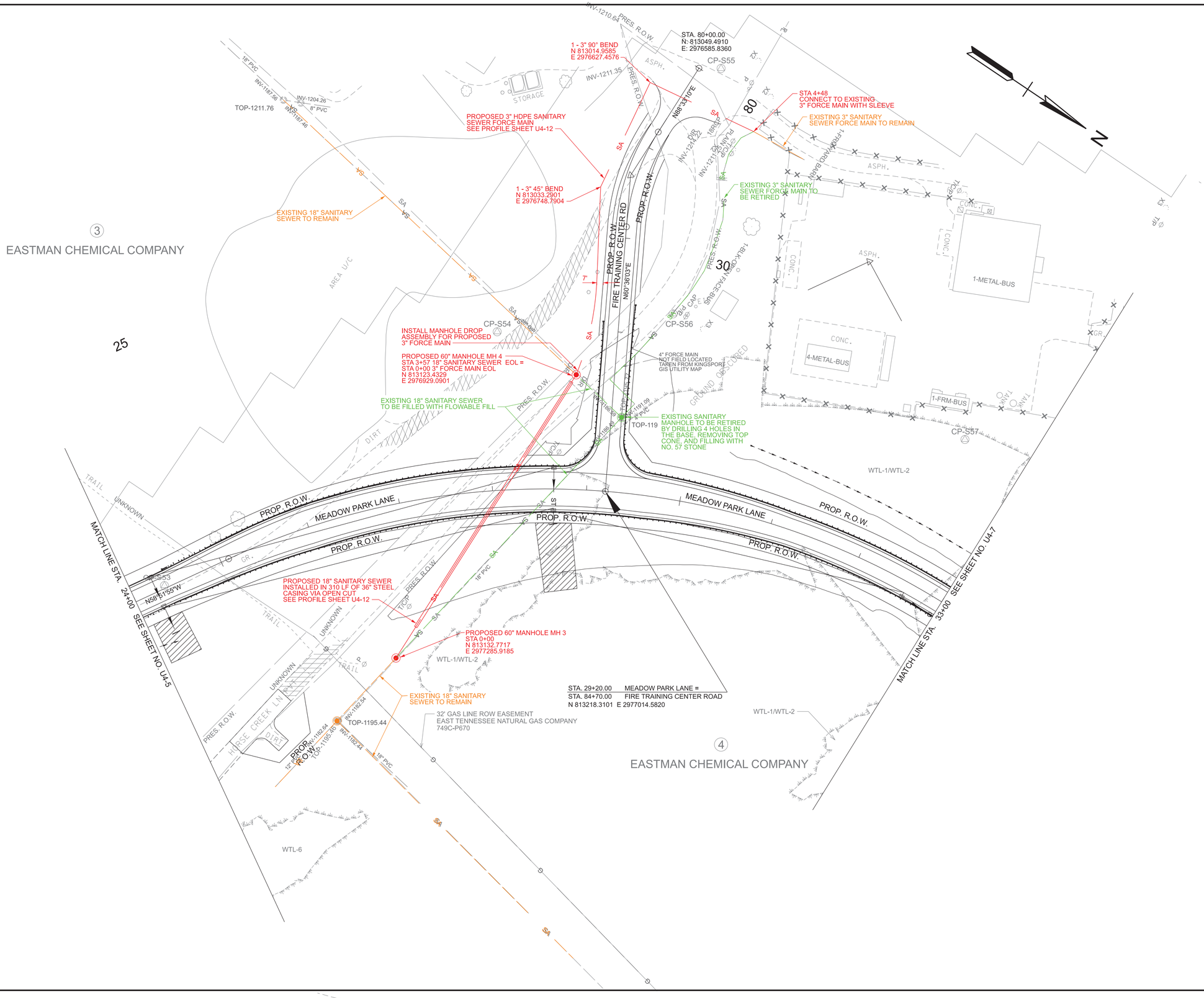
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-6



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BARGE DESIGN SOLUTIONS
Four Sherkston Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 24+00.00 TO STA. 33+00.00
SCALE: 1" = 50'

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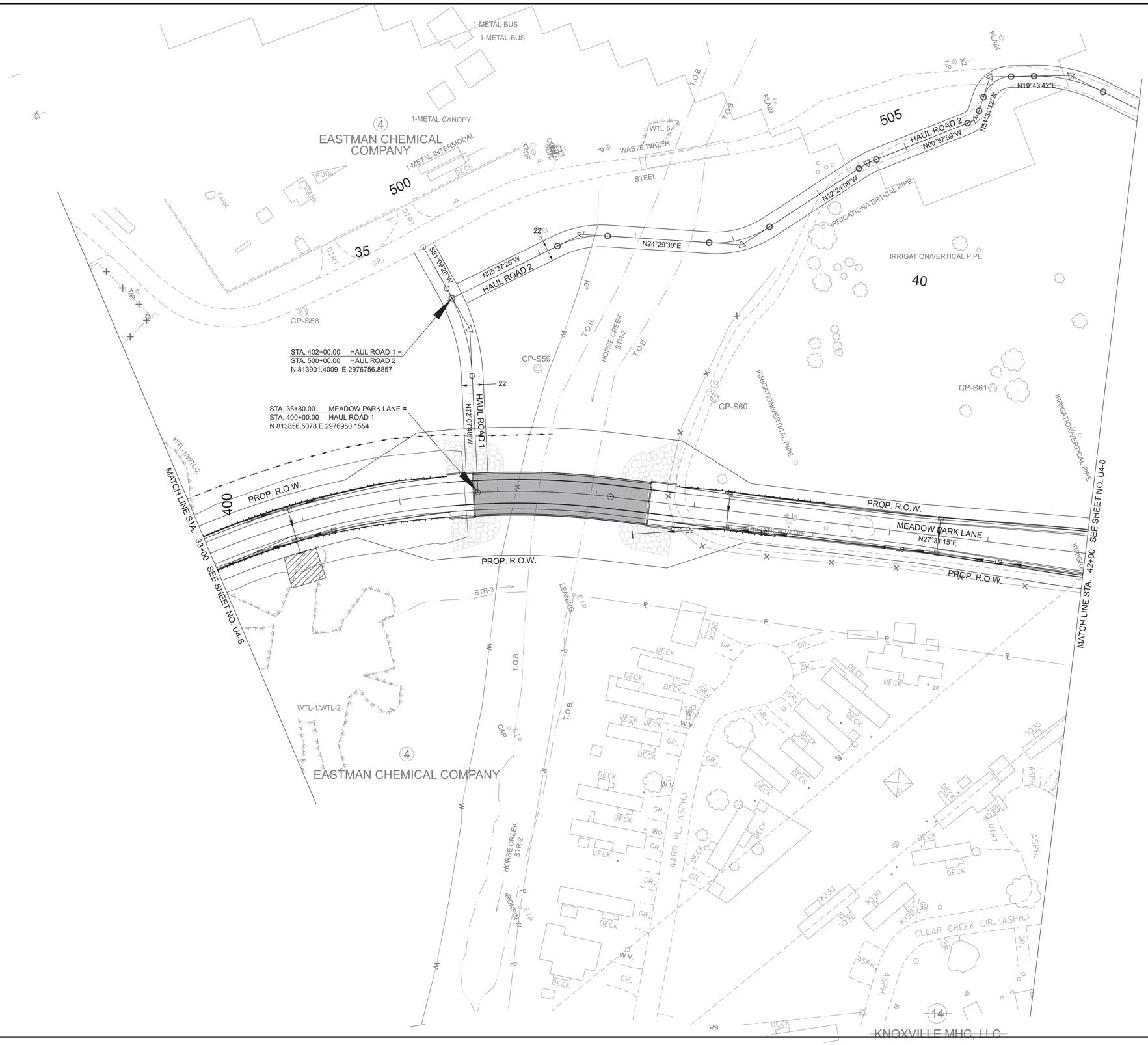
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-7



NO SANITARY SEWER RELOCATION THIS SHEET

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
No. 0010310
STATE OF TENNESSEE
3/17/20

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 33+00 TO STA. 42+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-8

NO SANITARY SEWER RELOCATION THIS SHEET

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
No. 001031109
STATE OF TENNESSEE
4/17/26

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BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-9525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 42+00 TO STA. 51+00
SCALE: 1" = 50'

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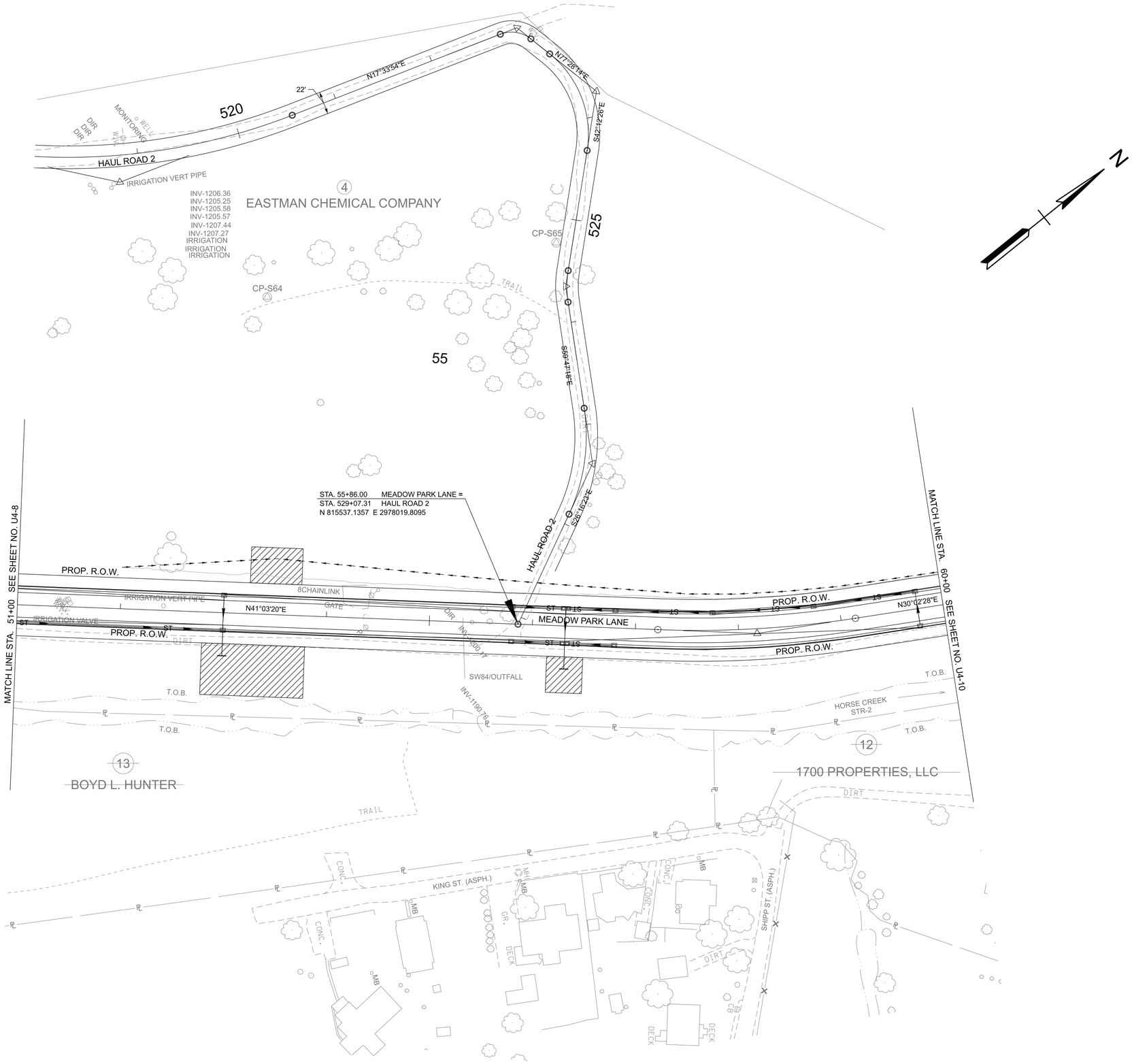
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-9



NO SANITARY SEWER RELOCATION THIS SHEET

SEALED BY

WILLIAM E. LAWRENCE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00103109
STATE OF TENNESSEE
3/17/26

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BARGE DESIGN SOLUTIONS

Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 51+00 TO STA. 60+00
SCALE: 1" = 50'

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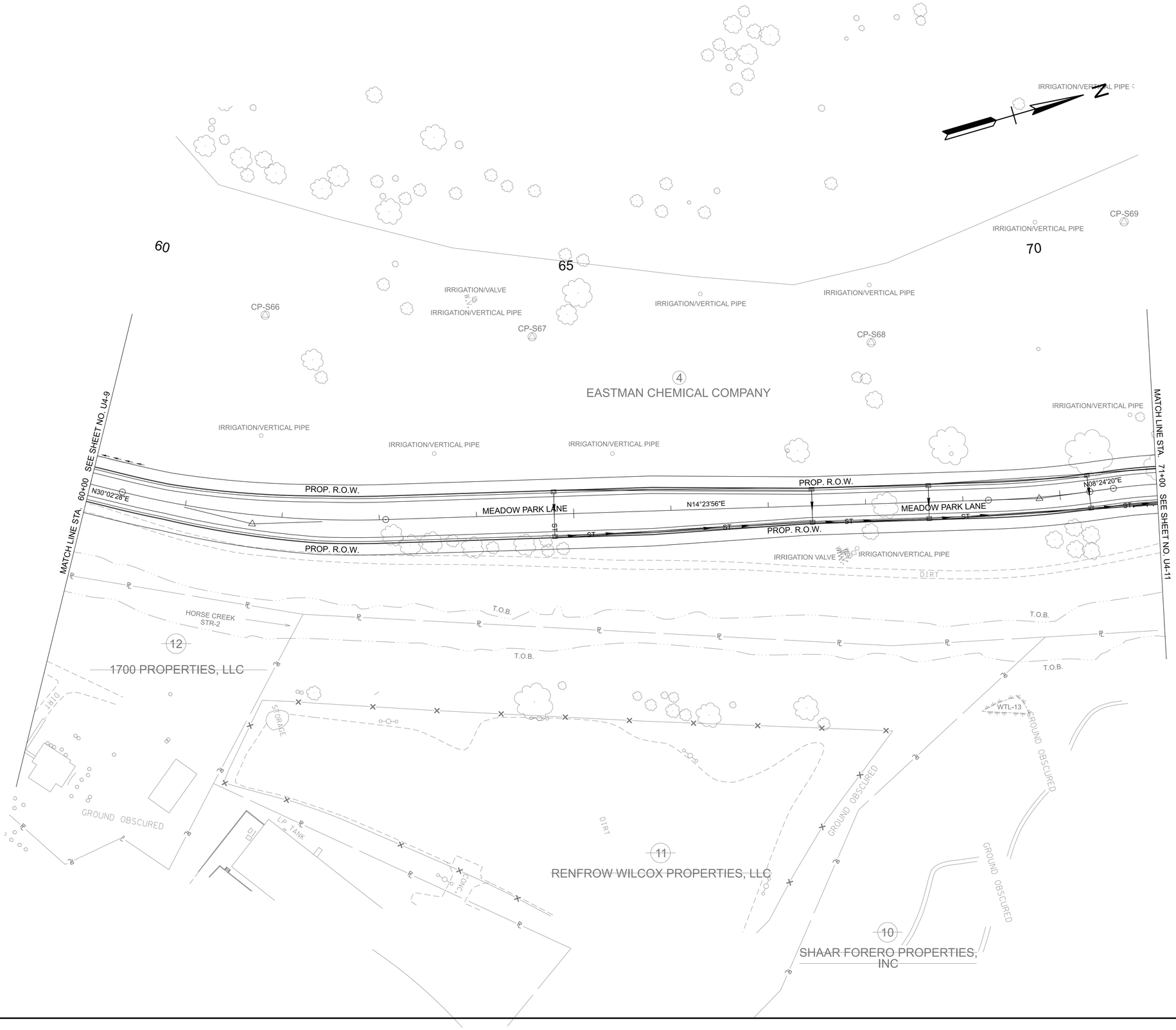
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-10



NO SANITARY SEWER RELOCATION THIS SHEET

SEALED BY

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BARGE DESIGN SOLUTIONS

Four Sherkton Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233

BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 60+00 TO STA. 71+00
SCALE: 1" = 50'

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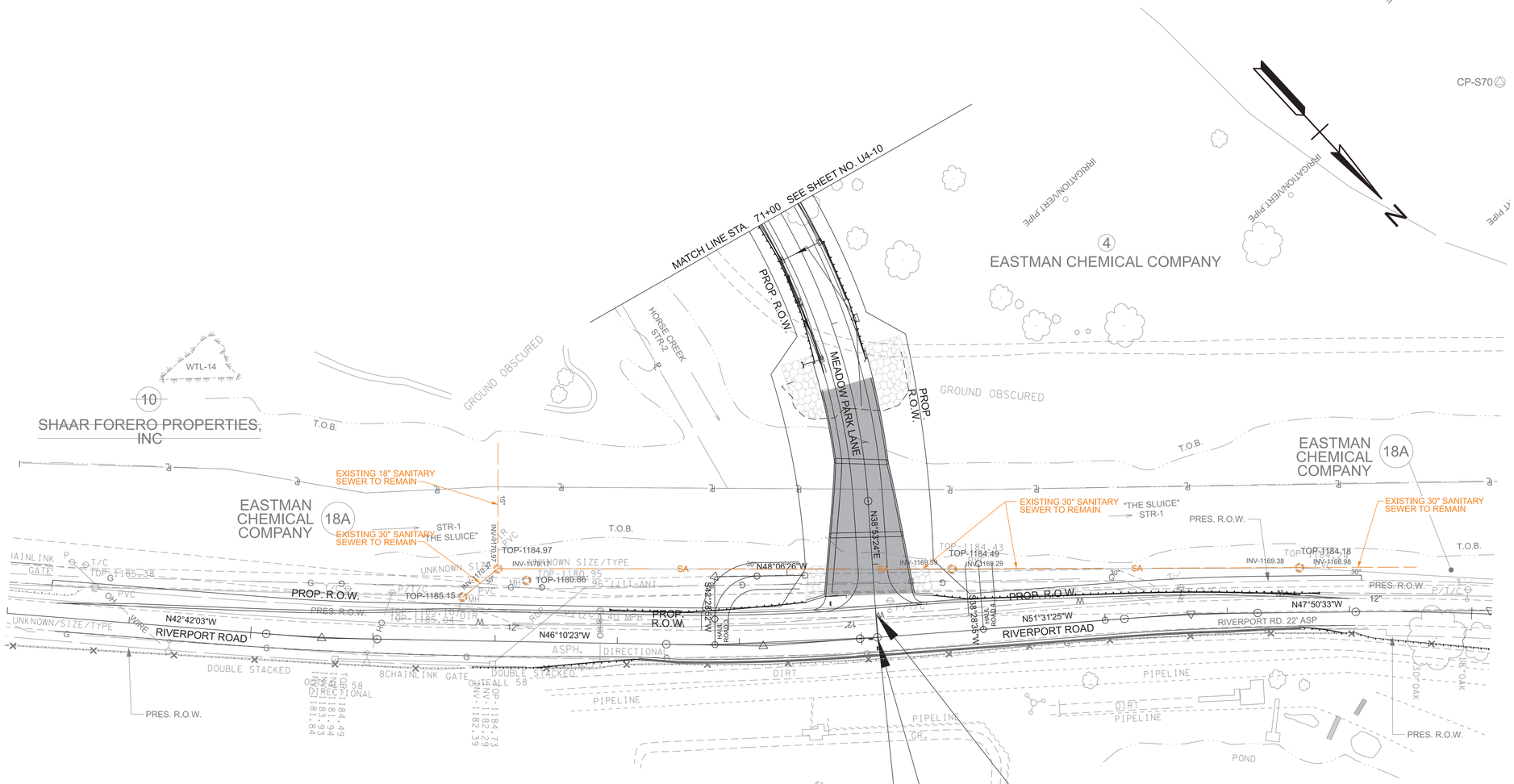
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-11

NO SANITARY SEWER RELOCATION THIS SHEET



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BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233
BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PLAN

STA. 71+00.00 TO STA. 74+29.35
SCALE: 1" = 50'

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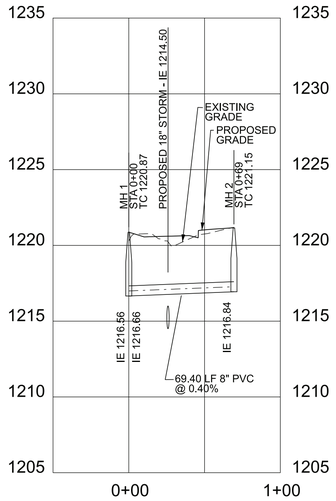
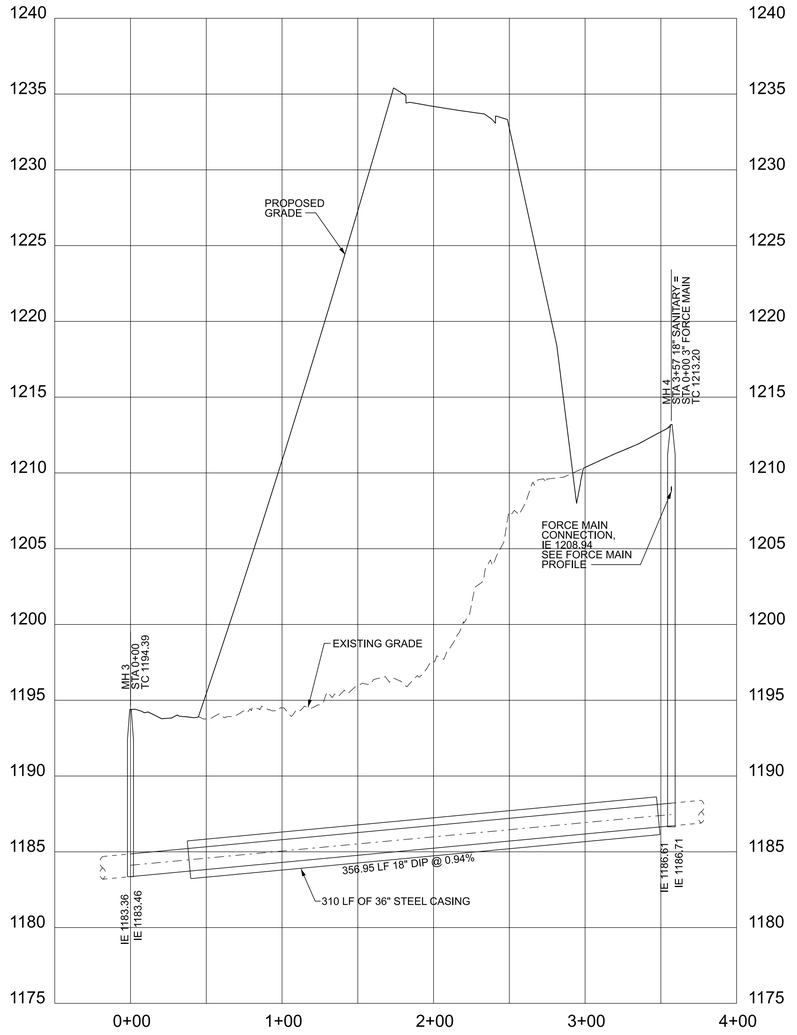
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U4-12



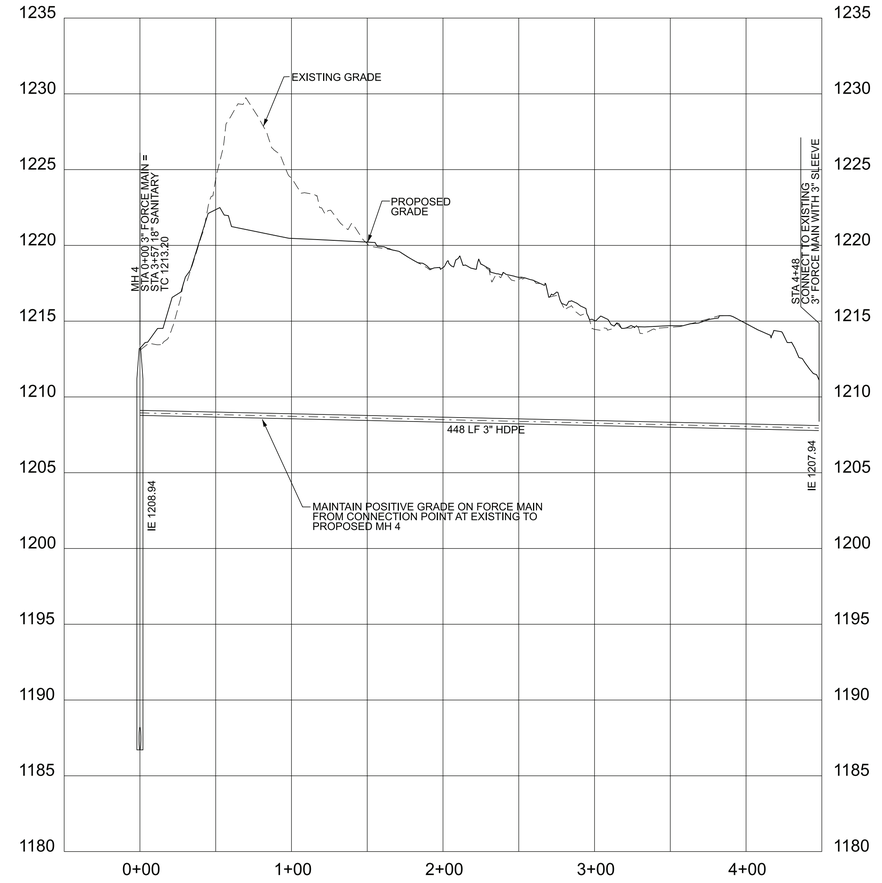
SANITARY SEWER PROFILE 1
(SEE PLAN SHEET U4-4)

SCALE: 1"=50' HORIZ
1"=5' VERT



SANITARY SEWER PROFILE 2
(SEE PLAN SHEET U4-6)

SCALE: 1"=50' HORIZ
1"=5' VERT



FORCE MAIN PROFILE
(SEE PLAN SHEET U4-6)

SCALE: 1"=50' HORIZ
1"=5' VERT

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BARGE DESIGN SOLUTIONS
Four Sheridan Square // Suite 100 // Kingsport, Tennessee 37660
PHONE (423) 247-5525 // FAX (423) 247-6233
BARGE PROJECT NO. 36937-01

KINGSPORT TENNESSEE

SANITARY SEWER PROFILES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-01

SULLIVAN COUNTY

REV 07.22.2026: CHANGED ITEM #793-14.09 QUANTITY AMOUNT TO ONE (1) PER TDOT FOR LUMP SUM ITEMS.

INDEX OF DRAWINGS

U5-01	ESTIMATED QUANTITIES AND DRAWING INDEX
U5-02	VICINITY MAP AND LEGEND
U5-03	GENERAL NOTES
U5-04	ELECTRIC UTILITY RELOCATION BEGINNING TO STA. 15+00
U5-05	ELECTRIC UTILITY RELOCATION STA. 15+00 TO STA. 24+00
U5-06	ELECTRIC UTILITY RELOCATION STA. 24+00 TO STA. 33+00
U5-07	ELECTRIC UTILITY RELOCATION STA. 33+00 TO STA. 42+00
U5-08	ELECTRIC UTILITY RELOCATION STA. 42+00 TO STA. 51+00
U5-09	ELECTRIC UTILITY RELOCATION STA. 51+00 TO STA. 60+00
U5-10	ELECTRIC UTILITY RELOCATION STA. 60+00 TO STA. 71+00
U5-11	ELECTRIC UTILITY RELOCATION STA. 71+00 TO END OF PROJECT
U5-12	ELECTRIC UTILITY RELOCATION, HORSE CREEK BRIDGE CROSSING PLAN
U5-13	ELECTRIC UTILITY RELOCATION, HORSE CREEK BRIDGE CROSS SECTION
U5-14	ELECTRIC UTILITY RELOCATION, THE SLUICE BRIDGE CROSSING PLAN
U5-15	ELECTRIC UTILITY RELOCATION, THE SLUICE BRIDGE CROSS SECTION
U5-16	POLE LOCATIONS AND CONDUCTOR INSTALLS
U5-17	CONSTRUCTION DETAILS
U5-18	CONSTRUCTION DETAILS
U5-19	CONSTRUCTION DETAILS

ESTIMATED QUANTITIES

	ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY
1	790-04.02	POLE 45FT CLASS 2 WOOD	45'-2 WP	EACH	2
1	790-04.03	POLE 45FT CLASS 3 WOOD	45'-3 WP	EACH	5
1	790-06.01	POLE 55FT CLASS 1 WOOD	55'-1 WP	EACH	4
1	790-06.02	POLE 55FT CLASS 2 WOOD	55'-2 WP	EACH	2
2 3	790-26.01	3Ø CROSSARM 25KV	ZC1C	EACH	1
2 3	790-26.12	3Ø CROSSARM DBL SM ANGLE 25KV	ZC2C	EACH	4
2 3	790-26.14	3Ø CROSSARM DBL 10FT SM ANGLE 25KV	ZC2-1C	EACH	1
2 3	790-26.15	3Ø XARM DBL 10FT LRG COND SM ANGLE 25KV	ZC2-2CL	EACH	3
2 3	790-26.25	3Ø CROSSARM DDE 25KV	ZC7C	EACH	4
2 3	790-26.27	3Ø CROSSARM DBL DDE 25KV	ZC8C	EACH	2
	790-31.02	SERVICE ASSEMBLY-POLE TYPE	K7	EACH	6
	790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	#2 TRIPLEX	LF	78
	790-32.01	DOWN GUY - THROUGH BOLT TYPE	E1-2T	EACH	13
4	790-32.06	DOWN GUY - INSULATED	E1-2F	EACH	15
	790-32.07	OH GUY - THROUGH BOLT TYPE	E2-2T	EACH	1
	790-32.23	GUY GUARD	E3-10P	EACH	14
	790-32.27	OH GUY LIT CONST - PREFORM	E2-2F	EACH	1
	790-33.31	SCREW TYPE ANCHOR 23,000LB (F1-5D-P)	FP-2	EACH	14
	790-36.10	TRANSFER-LIGHT ASSEMBLY	TRANSFER LIGHT	EACH	1
	790-36.21	SWITCH-900A-UNDERSLUNG (THREE PHASE)	ZM3-3C	EACH	1
	790-40.02	OH COND 2 7/1 ACSR SPARATE	#2 ACSR	LF	1370
	790-40.03	OH COND 1/0 6/1 ACSR RAVEN	1/0 ACSR	LF	4110
	790-40.06	OH COND 4/0 6/1 ACSR PENGUIN	4/0 ACSR	LF	883
	790-40.46	OH COND 556.5 19 AAC DAHLIA	556 AAC	LF	2649
2 3	790-41.16	UG PRI COND 4/0 AL 25 KV	UG PRI	LF	2121
5	790-42.10	4IN DIA PVC PIPE	4" PVC	LF	3868
	790-42.19	4 DUCT BANK @ 36IN-48IN DEPTH	TRENCH	LF	1040
2 3	790-43.29	DEADBREAK ELBOW 600A 25KV	DB ELBOW	EACH	12
6	790-43.47	PRIMARY PULLBOX	VAULT/PULLBOX	EACH	4
	790-51.07	3Ø TRANSFORMER PAD - GROUND SLEEVE	UM-2P	EACH	1
2 3	790-61.01	1Ø FUSE CUTOUT XARM MOUNT 25KV	M5-9C	EACH	1
	790-68.01	POLE GROUND ROD TYPE	M2-11R	EACH	14
	790-68.13	SGL PHASE MOUNTING BRACKET - FIBERGLASS	F.G. BRACKET	EACH	1
	790-69.32	ARM PIN	M5-5S	EACH	9
7	790-98.01	REMOVE WIRE	REMOVE WIRE	LF	13284
8	790-98.02	REMOVE POLES	REMOVE POLES	EACH	13
9	790-98.03	REMOVE FRAMING	REMOVE FRAMING	EACH	82
10 11	793-14.09	BRIDGE CONDUIT HANGER SYSTEM		LS	1

FOOTNOTES:

1. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, DIGGING HOLE, SETTING POLE, FILLING HOLE, BLASTING, MGNV, NUMBERING POLE.
2. ASSEMBLIES OF SIMILAR CONSTRUCTION BUT DIFFERING ONLY IN USE OF EPOXY VS. PORCELAIN INSULATORS OR FIBERGLASS VS. WOOD CROSSARMS OR LACK OF NEUTRAL ASSEMBLY SHOULD BE GROUPED WITHIN THE SAME ITEM.
3. ITEMS TO BE 35KV RATED.
4. INCLUDES FIBERGLASS LINK.
5. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING SETUP, TRAFFIC CONTROL, BEDDING, BACKFILL, AND SURFACE RESTORATION.
6. INCLUDE BOLT DOWN FIBERGLASS LID TO MATCH THE PULLBOX MANUFACTURER.
7. INCLUDES DROP WIRE, OH GUYS, MAIN LINE WIRE.
8. INCLUDES MAINLINE POLES, SERVICE POLES, STUB POLES.
9. INCLUDES CROSSARMS, TRANSFORMERS, SWITCHES, ETC.
10. INCLUDES INSERTS, HANGER RODS, BRACKETS, NUTS, WASHERS, BRACING, EXPANSION JOINTS, GALVANIZED PIPE.
11. **ONLY FOR ATTACHMENT POINTS, NOT A FULL HANGER SYSTEM.**

UTILITY INFORMATION
APPALACHIAN POWER
420 RIVERPORT RD
KINGSPORT, TN 37660

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23
STATE OF TENNESSEE
07-23-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	N.T.S
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
ESTIMATED QUANTITIES AND DRAWING INDEX

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-02

SULLIVAN COUNTY

SULLIVAN COUNTY

SIA:
STATE INDUSTRIAL ACCESS SERVING
EASTMAN CHEMICAL COMPANY

LEGEND

REMOVAL 1-PHASE POWER	EXISTING TRIPLEX	EXISTING COMM POLE
EXISTING 1-PHASE POWER	PROPOSED TRIPLEX	REMOVAL TRANSFORMER
PROPOSED 1-PHASE POWER	REMOVAL POWER POLE	EXISTING TRANSFORMER
REMOVAL 3-PHASE POWER	EXISTING POWER POLE	PROPOSED TRANSFORMER
EXISTING 3-PHASE POWER	PROPOSED POWER POLE	REMOVAL ANCHOR
PROPOSED 3-PHASE POWER	REPLACE IN PLACE POLE	EXISTING ANCHOR
REMOVAL TRIPLEX	REMOVE COMM POLE	PROPOSED ANCHOR

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23095
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	N.T.S
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-03

SULLIVAN COUNTY

GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT, AS WELL AS THE CONTRACTOR RESPONSIBLE FOR THE CLEARING/CUTTING OF REQUIRED AREAS OUTSIDE OF THE TDOT RIGHT-OF-WAY WHEN REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT.

2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.

4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING ON ENERGIZED ELECTRICAL LINES (e.g. RUBBER GOODS INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).

5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.

7. THE ELECTRICAL FACILITIES ALONG THIS PROJECT OPERATE AT A NOMINAL PHASE-TO-PHASE VOLTAGE RATING OF 35KV. ALL WORK DONE BY THE UTILITY CONTRACTOR ON THE 35KV SYSTEM IS TO BE PERFORMED WHILE THE EXISTING FACILITIES ARE ENERGIZED, REQUIRING THE UTILITY CONTRACTOR TO USE PROPER HOT LINE WORKING TECHNIQUES. CONTRACTOR TO COORDINATE AND SCHEDULE 46KV CLEARANCES. THE UTILITY OPERATES A 24-HOUR/365-DAY CONTROL CENTER THROUGH WHICH THE UTILITY CONTRACTOR SHALL COORDINATE ALL REQUESTS FOR CAUTION ORDERS AND CLEARANCE REQUESTS FOR TRANSFORMERS OR TAPS.

8. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.

9. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.

10. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S CONTROL CENTER USING TELEPHONE COMMUNICATIONS. THE UTILITY CONTRACTOR MUST CONTACT THE CONTROL CENTER BY 5PM (EST) THE DAY BEFORE THEY BEGIN WORK ON THE PROJECT IN ORDER TO OBTAIN ANY NON RECLOSE ORDERS AND TO INFORM THE UTILITY WHAT PORTION OF THE WORK IS GOING TO BE DONE. NON RECLOSE ORDERS MUST BE RELEASED AT THE END OF EACH WORKDAY.

11. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113E "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.

12. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

13. TO DECREASE THE POTENTIAL FOR OUTAGES, THE UTILITY CONTRACTOR SHALL NOT HAVE MORE THAN ONE (1) MILE OF ELECTRICAL LINE LAID OUT UNDERCONSTRUCTION WITH TEMPORARY LAYOUT ARMS AT ANY ONE TIME.

14. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.

15. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.

16. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.

17. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

18. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".

19. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.

20. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

21. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

22. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

23. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

24. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE LINES AT THE FINAL OPERATING VOLTAGE IN ACCORDANCE WITH AEP SPECIFICATIONS.

25. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.

26. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

27. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

28. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

29. TRANSFORMERS SHALL BE REUSED IF PRACTICAL. ALL OIL-FILLED EQUIPMENT, INCLUDING RECLOSERS AND TRANSFORMERS, SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR. LEAKING OIL-FILLED EQUIPMENT WILL BE PLACED IN HAZARDOUS MATERIAL BAGS UNTIL THE UTILITY OWNER CAN PICK THE EQUIPMENT UP FROM THE PROJECT SITE.

30. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TANGENT STRUCTURES ARE PROPERLY ALIGNED AFTER SETTING ANGLE POLES OR STRUCTURES. AT JUNCTION POLES AND OTHER CONTROL LOCATIONS, THE PROPOSED POLE LOCATION SHALL NOT BE FARTHER THAN TWENTY-FOUR (24) INCHES FROM THE EXISTING POLE WITHOUT APPROVAL FROM THE UTILITY OWNER. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE BACK AND/OR FORWARD SPAN TANGENT POLE ALIGNMENT.

31. POLE DRILLING IS TO BE INCLUDED IN THE LABOR AND MATERIAL COST FOR THE POLE.

32. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR CHECKING AND ENSURING THE PROPER PHASE ROTATION OF ALL THREE-PHASE MOTORS, ALONG WITH VOLTAGE AND PHASING TO OTHER LOADS, BEFORE AND AFTER CONSTRUCTION OF NEW FACILITIES. THE UTILITY CONTRACTOR SHALL MAINTAIN EXISTING PHASE CONNECTIONS FOR ALL CONDUCTORS, TRANSFORMERS, ETC. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR WITH THE CONSENT OF THE UTILITY OWNER / ENGINEER.

33. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, DOUBLE ARMING BOLTS, UPSET BOLTS, INSULATOR PINS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.

34. BULLDOG TYPE GRIPS SHALL NOT BE USED FOR PULLING DOWNGUYS.

35. THE UTILITY CONTRACTOR SHALL INSTALL ALL DOWNGUYS AT LENGTHS AS INDICATED ON THE DRAWINGS UNLESS OTHERWISE DISCUSSED WITH AND APPROVED BY THE UTILITY OWNER / ENGINEER.

36. THE UTILITY CONTRACTOR SHALL INSTALL FIBERGLASS INSULATOR GUYLINKS ON ALL DOWNGUYS WITHIN TWO (2) FEET OF PRIMARY CONDUCTORS.

37. WHEN WOOD POLES ARE BEING UTILITIZED, THE UTILITY CONTRACTOR MUST INSPECT AND TEST ALL POLES BEFORE CLIMBING.

38. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.

39. ALL GROUND RODS TO BE REMOVED SHALL BE PULLED, NOT CUT OFF.

40. ALL MOUNTING HARDWARE REQUIRED FOR INSTALLING NEW TRANSFORMERS SHALL BE INCLUDED IN THE UNIT FOR THE TRANSFORMER AS INDICATED BY THE TDOT STANDARD ITEM NUMBER FOR THOSE UNITS. IN ADDITION, THE UTILITY CONTRACTOR WILL BE REQUIRED TO CHANGE OUT ALL EXISTING PORCELIAN LIGHTNING ARRESTORS WITH POLYMER ARRESTORS.

41. GUY MARKERS ARE TO BE INSTALLED ON ALL NEW AND EXISTING-TO-REMAIN DOWN GUYS REQUIRED FOR THE PROJECT.

42. CONDUCTOR SPLICING SHALL BE KEPT TO A MINIMUM. THERE SHALL BE NO MORE THAN ONE SPLICE PER SPAN PER CONDUCTOR, AND NO SPLICES ARE ALLOWED CLOSER THAN TEN (10) FEET FROM ANY SUPPORT.

43. THE DESIGN ENGINEER WILL PROVIDE ALL STAKING DATA, DESIGN TENSION AND SAG DATA AS REQUIRED.

44. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND/OR DESIGN ENGINEER FOR VERIFICATION OF ALL POLE STAKING LOCATIONS PRIOR TO ANY POLE INSTALLATION ON THE PROJECT.

45. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILTY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

46. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.

47. ALL INSTALLED POLES SHALL HAVE A POLE TAG TO AEP SPECIFICATIONS WITH AN ASSIGNED POLE NUMBER ON THE TAG AFFIXED TO THE POLE. COORDINATE WITH AEP ON POLE TAGGING.

48. ALL WOOD POLES SHALL HAVE "SOFT" CCA TREATMENT DENOTED AS CCA-ET OR CCA CLAW.

49. ALL PRIMARY AND SECONDARY CONDUCTORS, CONNECTORS, JUMPERS, ETC. SHALL BE THOROUGHLY WIRE BRUSH CLEANED OF FOREIGN MATTER. AN OXIDATION INHIBITOR, AS APPROVED BY THE UTILITY OWNER, SHALL BE APPLIED TO WIRE ENDS. CONDUCTOR SHALL BE LAID STRAIGHT BEFORE CONNECTING AND/OR INSTALLING ANY CONNECTOR OR CLAMP.

50. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CONDUCTOR FOR THE PROJECT. ANY DAMAGE TO THE CONDUCTOR SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CONDUCTOR SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.

51. ROLLERS AND BLOCKS SHALL BE INSPECTED PRIOR TO INSTALLATION OF CONDUCTOR TO PREVENT BINDING OR ANY OTHER DAMAGE DURING STRINGING.

CLEARING AND TRIMMING

1. UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CUT, TRIM, AND/OR REMOVE REQUIRED TREES IN AREAS OUTSIDE OF TDOT RIGHT-OF-WAY AS INDICATED ON THE DRAWINGS. DEBRIS RESULTING FROM SUCH WORK SHALL BE DISPOSED OF DAILY FROM THE PROJECT SITE. DEBRIS SHALL INCLUDE BUT NOT BE LIMITED TO BRUSH, WOOD, LIMBS, LOGS AND LEAVES.

2. UTILITY CONTRACTOR SHALL PERFORM ALL WORK TO THE SATISFACTION OF THE UTILITY OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY, MUNICIPAL AND OTHER LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, AS WELL AS WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE Z133.1 AND A300.

3. TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH THE UTILITY OWNER'S VEGETATION MANAGEMENT CONTRACTOR POLICY MANUAL. A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR AEP WILL BE AVAILABLE TO ASSIST AND PROVIDE DETAILED INFORMATION.

4. ALL GROWTH SHALL BE CLEARED WITHIN THREE (3) FEET OF ALL SERVICE CONDUCTORS WITH THE USE OF LATERAL PRUNING ONLY, UNLESS OTHERWISE INSTRUCTED BY THE UTILITY OWNER.

5. ALL STRUCTRES SHALL BE CLEARED WITHIN A TEN (10) FOOT RADIUS OF THE STRUCTURE. ALL DOWN GUYS, ANCHORS, SPAN GUYS, ETC. SHALL BE CLEARED WITHIN A FIVE (5) FOOT RADIUS OF THE STRUCTURE.

6. FOR ALL TREES THAT ARE CUT, THE UTILITY CONTRACTOR SHALL ENSURE THAT THE TREES ARE CUT FLUSH WITH THE GROUND.

7. UTILITY CONTRACTOR SHALL PERFORM ALL WORK IN A REASONABLE, SAFE AND SECURE FASHION TO COMPLY, AT A MINIMUM, WITH ALL SAFETY AND SECURITY REQUIREMENTS OF ALL GOVERNMENT AUTHORITIES AND TO PERFORM THE WORK IN SUCH A MATTER AS TO PREVENT ACCIDENTS TO THE PUBLIC OR ANY DAMAGE TO PROPERTY.

8. ALL WORK IS TO BE DONE WHILE THE FACILITIES ARE ENERGIZED, AND THEREFORE, THE UTILITY CONTRACTOR SHALL GUARD AGAINST INTERFERENCE WITH THE NORMAL OPERATION OF THE ELECTRICAL FACILITIES TO ENSURE THERE IS NO DAMAGE TO ENERGIZED CIRCUITS.

9. THE UTILITY OWNER WILL PROVIDE A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR AEP TO SUPERVISE ANY NECESSARY TREE TRIMMING, IN ORDER TO ENSURE THAT THE WORK IS BEING DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER AS WELL AS THE CUSTOMERS THAT ARE AFFECTED.

10. UTILITY CONTRACTOR SHALL BE REQUIRED TO MEET WITH THE ARBORIST ASSIGNED TO THE PROJECT BY THE UTILITY OWNER FOR THE FACILITIES THAT ARE BEING RELOCATED PRIOR TO ANY TREE TRIMMING OFF OF STATE RIGHT-OF-WAY ALONG THE PROJECT.

NON RECLOSE AND HOLD ORDERS

1. ALL NON RECLOSE ORDERS SHALL BE REQUESTED AND ISSUED THROUGH THE UTILITY OWNER'S CONTROL CENTER BY CALLING THE CONTROL CENTER. AEP TO PROVIDE THE CALL CENTER PRIVATE # TO THE UTILITY CONTRACTOR FOR THE PROJECT. NON RECLOSING ORDERS MUST BE REQUESTED 24 HOURS IN ADVANCE.

2. NON RECLOSING ORDERS WILL ONLY BE ISSUED FROM AN AEP CONTROL CENTER EMPLOYEE. ALL CREW SUPERVISORS AND TEAM LEADS WILL NEED TO ATTEND AEP SWITCHING AND TAGGING TRAINING TO BE CONDUCTED BY AEP AND FOLLOW ALL AEP SWITCHING RULES AND REQUIREMENTS.

3. UTILITY CONTRACTOR SHALL PROIVDE THE FOLLOWING INFORMATION WHEN REQUESTING A NON RECLOSING ORDER:
   - -NAME OF EMPLOYEE IN-CHARGE
   - -COMPANY NAME
   - -CELL PHONE NUMBER
   - -POLE NUMBER

4. ONCE THE NON RECLOSING ORDER IS REQUESTED, THE UTILITY CONTRACTOR SHALL VERIFY TO THE CONTROL CENTER THAT THE INFORMATION PROVIDED IS CORRECT. ONCE THE INFORMATION IS VERIFIED, THE CONTROL CENTER WILL PROCESS THE NON RECLOSING ORDER. THE CONTROL CENTER WILL THEN PROVIDE THE CONTRACTOR WITH A NON RECLOSING ORDER NUMBER. THE UTILITY CONTRACTOR MUST CONFIRM RECEIPT OF THE NUMBER BEFORE THE PROCESS IS COMPLETE.

5. WHEN A NON RECLOSING ORDER IS RELEASED, THE UTILITY CONTRACTOR SHALL CONTACT THE CONTROL CENTER VIA TELEPHONE AND USING THEIR VEHICLE NUMBER FOR CONFIRMATION. THE UTILITY CONTRACTOR MUST REQUEST RELEASE OF THE NON RECLOSING ORDER BY PROVIDING THE CONTROL CENTER THE NUMBER ASSIGNED TO THE NON RECLOSING ORDER, AND THAT THE POLE TOP IS BACK IN THE NORMAL POSITION WITH THE TAG REMOVED. ONCE THE CONTROL CENTER VERIFIES ALL OF THE INFORMATION, THEY WILL PROCESS THE RELEASE OF THE NON RECLOSING ORDER. ONCE THE NON RECLOSING ORDER IS RELEASED, THE UTILITY CONTRACTOR MUST ACKNOWLEDGE AND CONFIRM THE RELEASE.

6. NON RECLOSING ORDERS MUST BE RELEASED WHEN CREWS LEAVE THE WORK LOCATION DURING LUNCH BREAK LASTING MORE THAN ONE (1) HOUR.

7. NO NON RECLOSING ORDERS CAN BE EXTENDED BEYOND ONE WORKING DAY.

8. IN THE EVENT OF INCLIMATE WEATHER, THE CONTROL CENTER WILL CONTACT THE UTILITY CONTRACTOR AND REQUEST THE RELEASE OF ANY NON RECLOSING ORDERS THAT ARE IN EFFECT. IF THREE (3) ATTEMPTS ARE MADE TO CONTACT THE UTILITY CONTRACTOR, AND THEY FAIL TO RESPOND, THE UTILTY'S OPERATIONS SUPERVISOR WILL BE NOTIFIED IMMEDIATELY.

9. HOLD ORDERS WILL BE ISSUED TO A DESIGNATED UTILITY CONTRACTOR REPRESENTATIVE. CLOSE COMMUNICATION AND COORDINATION WITH THIS AEP EMPLOYEE IS CRITICAL. ALL HOLD ORDERS WILL BE ASSIGNED A NUMBER AND WILL FOLLOW THE SAME GUIDELINES FOR RELEASE AS NON RECLOSING ORDERS.

10. ALL DISTRIBUTION AND TRANSMISSION HOLD ORDERS MUST BE REQUESTED THREE (3) WORKING DAYS PRIOR TO THE DAY THEY ARE NEEDED.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 120
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE: N.T.S	DATE: 04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-04

SULLIVAN COUNTY

N

EXISTING: PAD MOUNTED SWITCH 1151-1906
INSTALL: (3)DB ELBOWS

EXISTING: 3Ø PAD MOUNTED TRANSFORMER 1151-1907, 1500 KVA, 480V

INSTALL: UM-2P, M2-11R, (6)DB ELBOWS
TRANSFER: PAD MOUNTED SWITCH FROM U2R

REMOVE: 35' MP, ST LT

REMOVE: 35' MP, ST LT

CONST. ESMT.

PROP. R.O.W.

U2

EXISTING: MP, ST LT

FILL

CUT

446'

445'

392'

U2R

P2R

P3R

PVC

261'

214'

224'

U1

PARK MEADOW PLACE

CUT

FILL

CONST. ESMT. TO FOLLOW PRES. R.O.W. LINE

EXISTING: 3Ø PAD MOUNTED TRANSFORMER 1151-2005, 480V

EXISTING: MP, ST LT

REMOVE: PAD MOUNTED SWITCH
TRANSFER: PAD MOUNTED SWITCH TO U2

EXISTING: MP, ST LT

EXISTING: PAD MOUNTED SWITCH 1151-2006
INSTALL: (3)DB ELBOWS

U3

U4

EXISTING: 1Ø PAD MOUNTED TRANSFORMER

EXISTING: 3Ø, 35KV SWITCH

EXISTING: MP, ST LT

EXISTING: MP, ST LT

FILL

CUT

CONST. ESMT.

PROP. R.O.W.

MEADOW PARK LANE

PROP. R.O.W.

CUT

CONST. ESMT.

PROP. R.O.W.

MATCH LINE STA. 15+00 SEE SHEET NO. 5

EASTMAN

APPALACHIAN ELECTRIC POWER 100' EASEMENT

WILCOX DR.

UNKNOWN

EXISTING: WP, RECLOSER FOR UG RISER FOR DEVELOPMENT

1 2 3 4 5 10 11 12 13 14 15

91 92 93 94 95 96 97

135 140

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23
STATE OF TENNESSEE

04-24-2026

AMERICAN ELECTRIC POWER

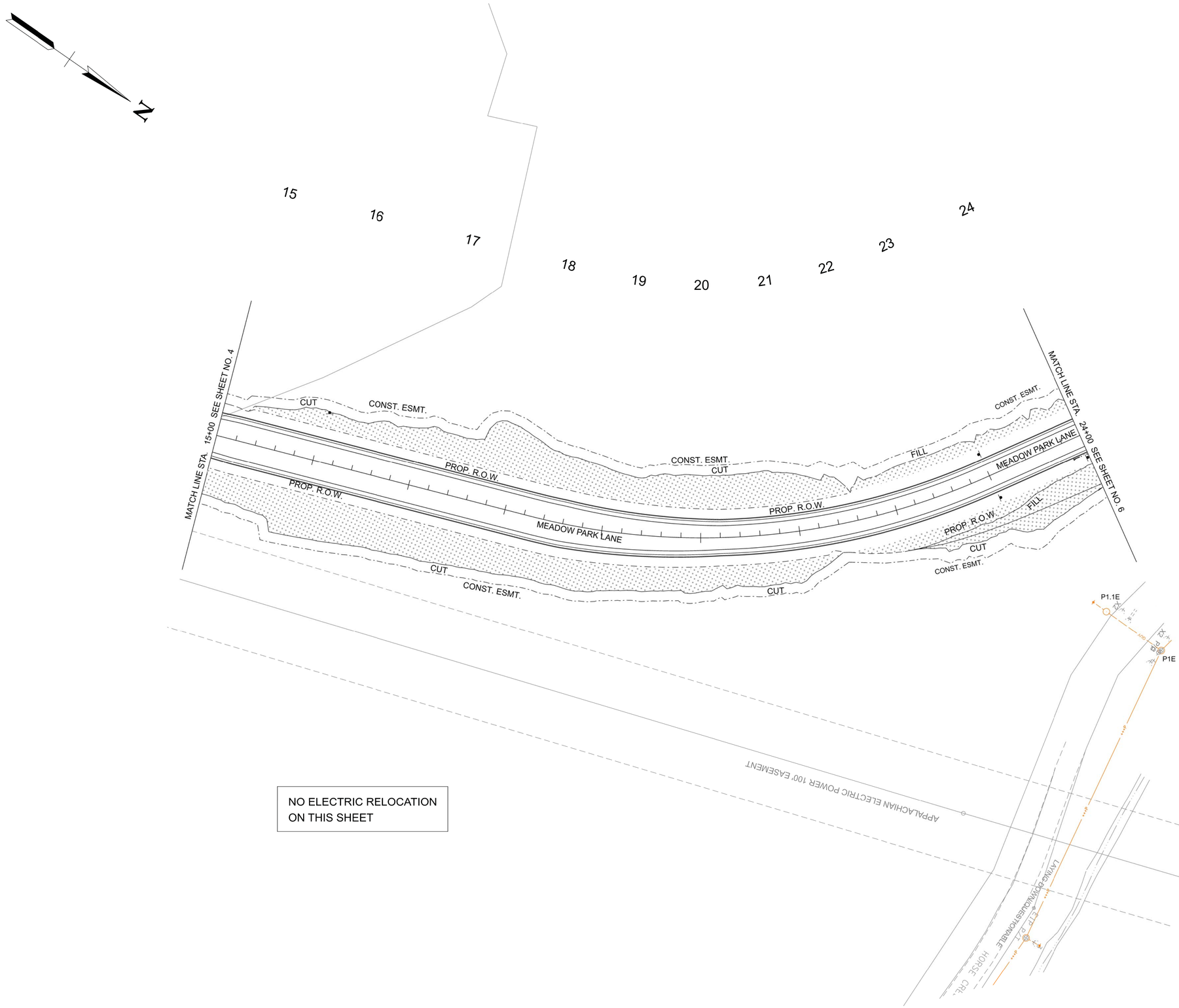
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	1"=50'
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
BEGINNING OF PROJECT TO STA. 15+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-05

SULLIVAN COUNTY



NO ELECTRIC RELOCATION
ON THIS SHEET

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23405
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

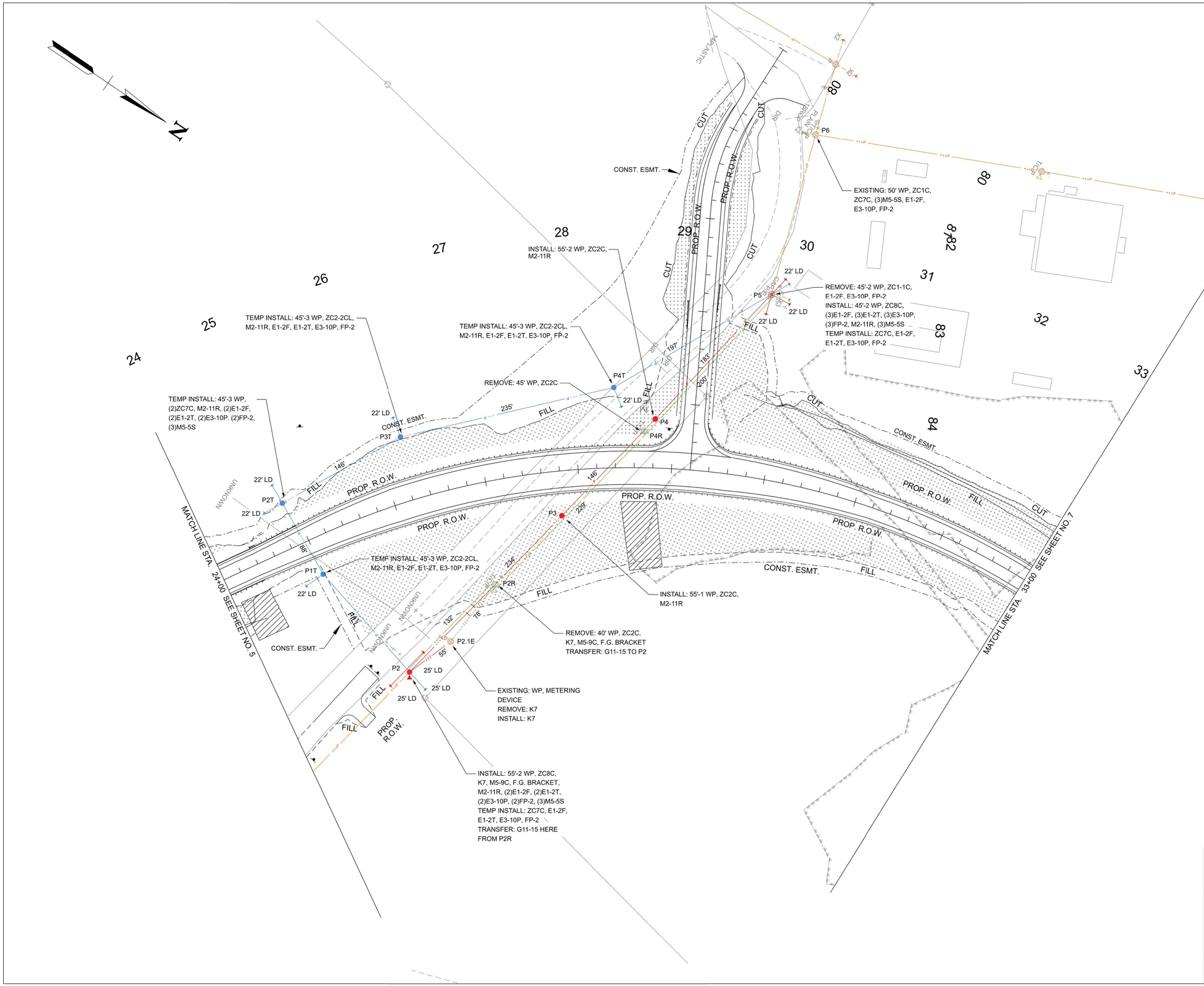
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	1"=50'
DATE	04.29.26

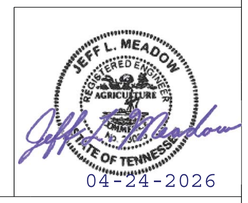
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 15+00 TO STA. 24+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-06

SULLIVAN COUNTY





AMERICAN ELECTRIC POWER

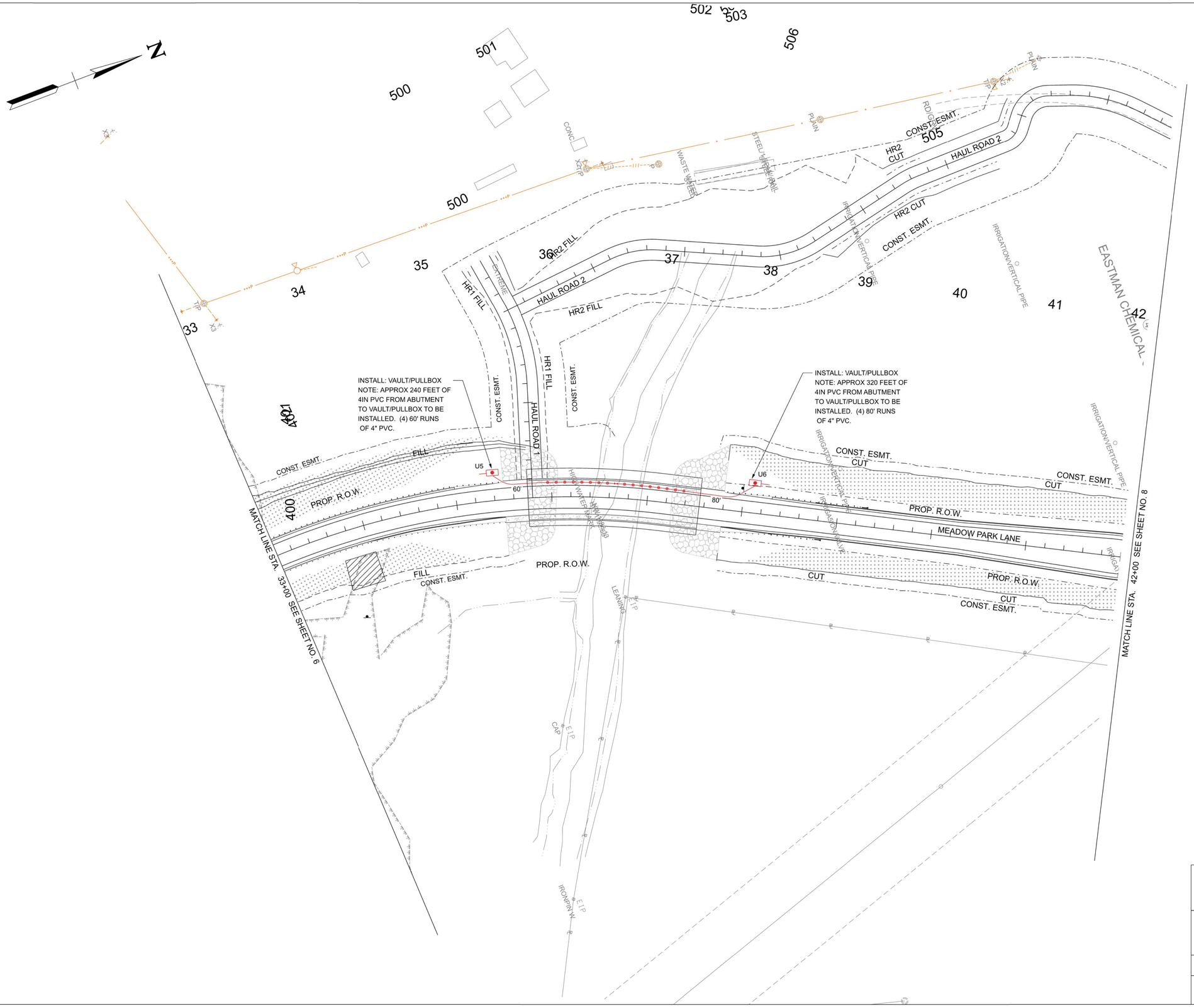
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	1"=50'
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 24+00 TO STA. 33+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-07

SULLIVAN COUNTY



JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23054
STATE OF TENNESSEE

04-24-2026

AMERICAN ELECTRIC POWER

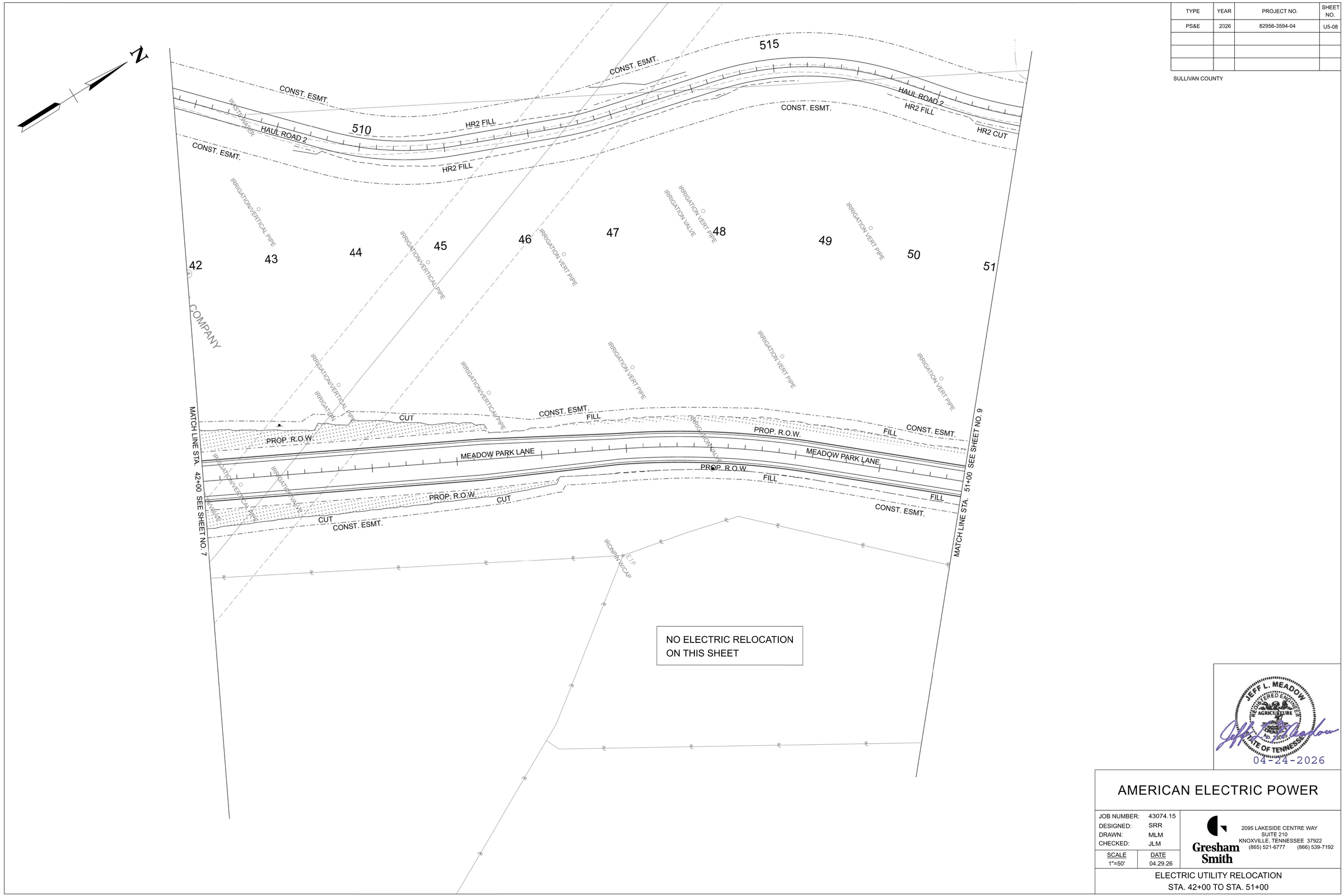
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
1"=50'	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 33+00 TO STA. 42+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-08

SULLIVAN COUNTY



JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

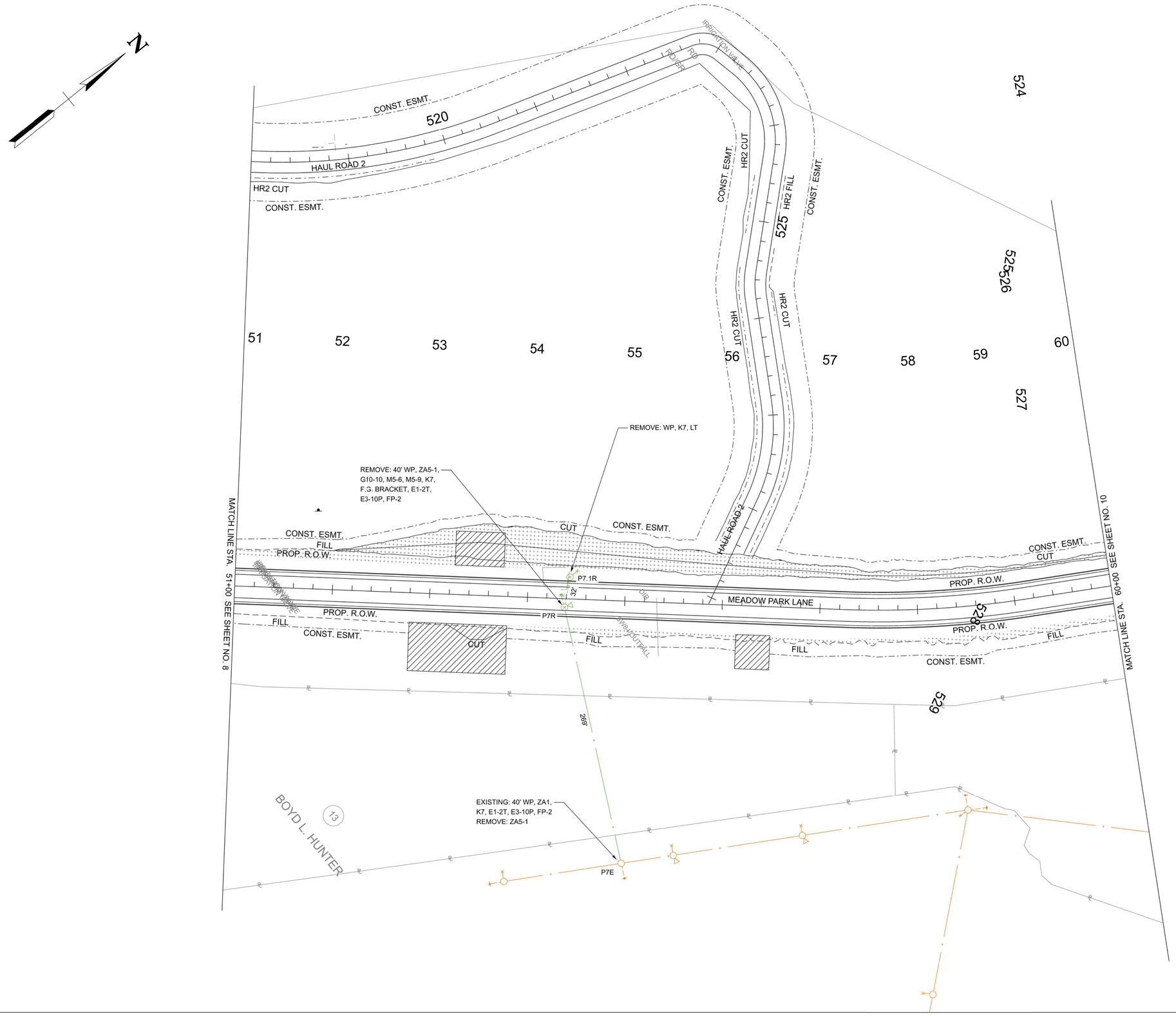
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
1"=50'	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 42+00 TO STA. 51+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-09

SULLIVAN COUNTY



JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2005
STATE OF TENNESSEE

04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
1"=50'	04.29.26

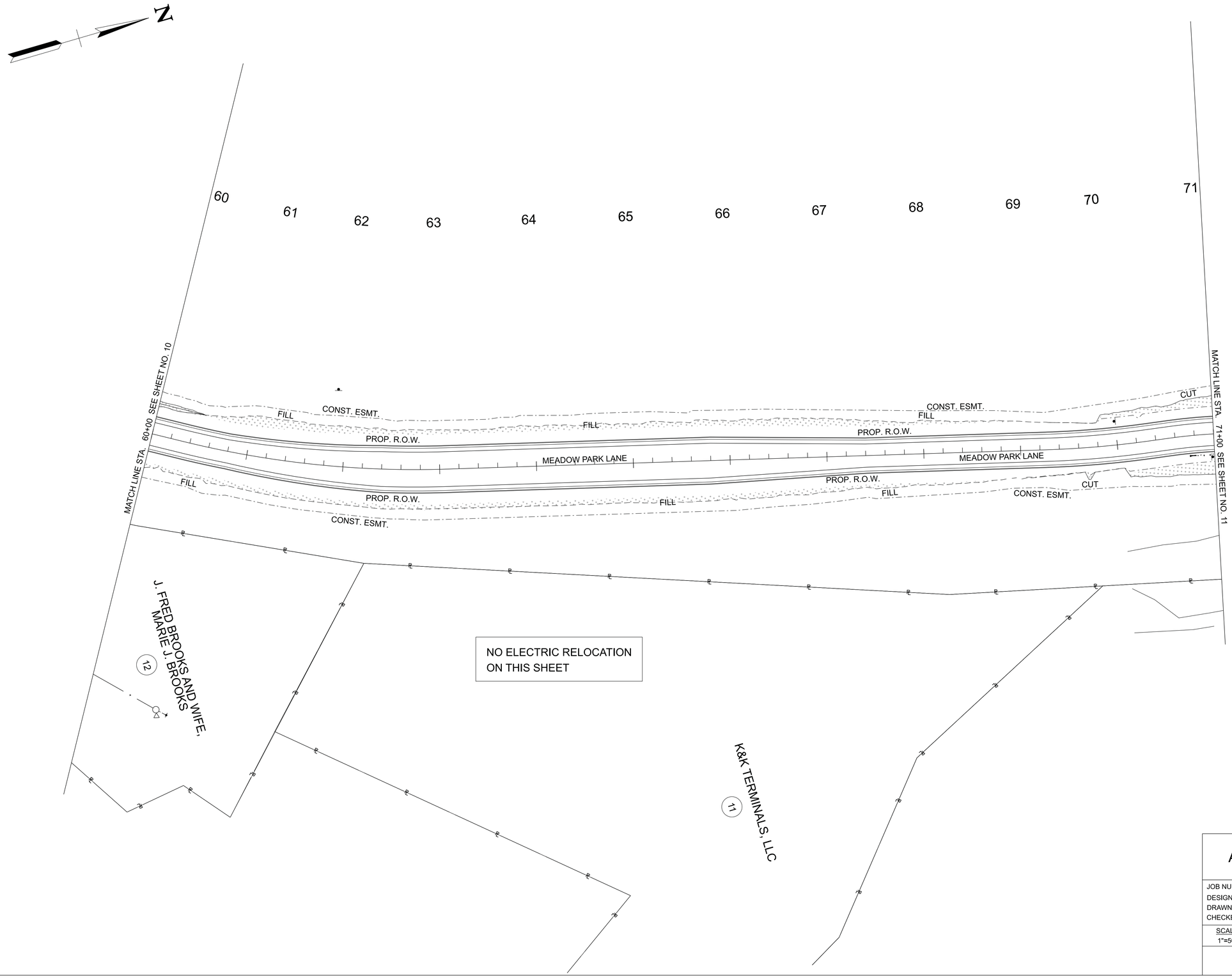
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 51+00 TO STA. 60+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-10

SULLIVAN COUNTY

REV 07.22.2026: CORRECTED TITLE BLOCK DESCRIPTION TO READ STA. 60+00 TO STA. 71+00 AND MATCH INDEX ON SHEET U5-01.



JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23
STATE OF TENNESSEE

07-23-2026

AMERICAN ELECTRIC POWER

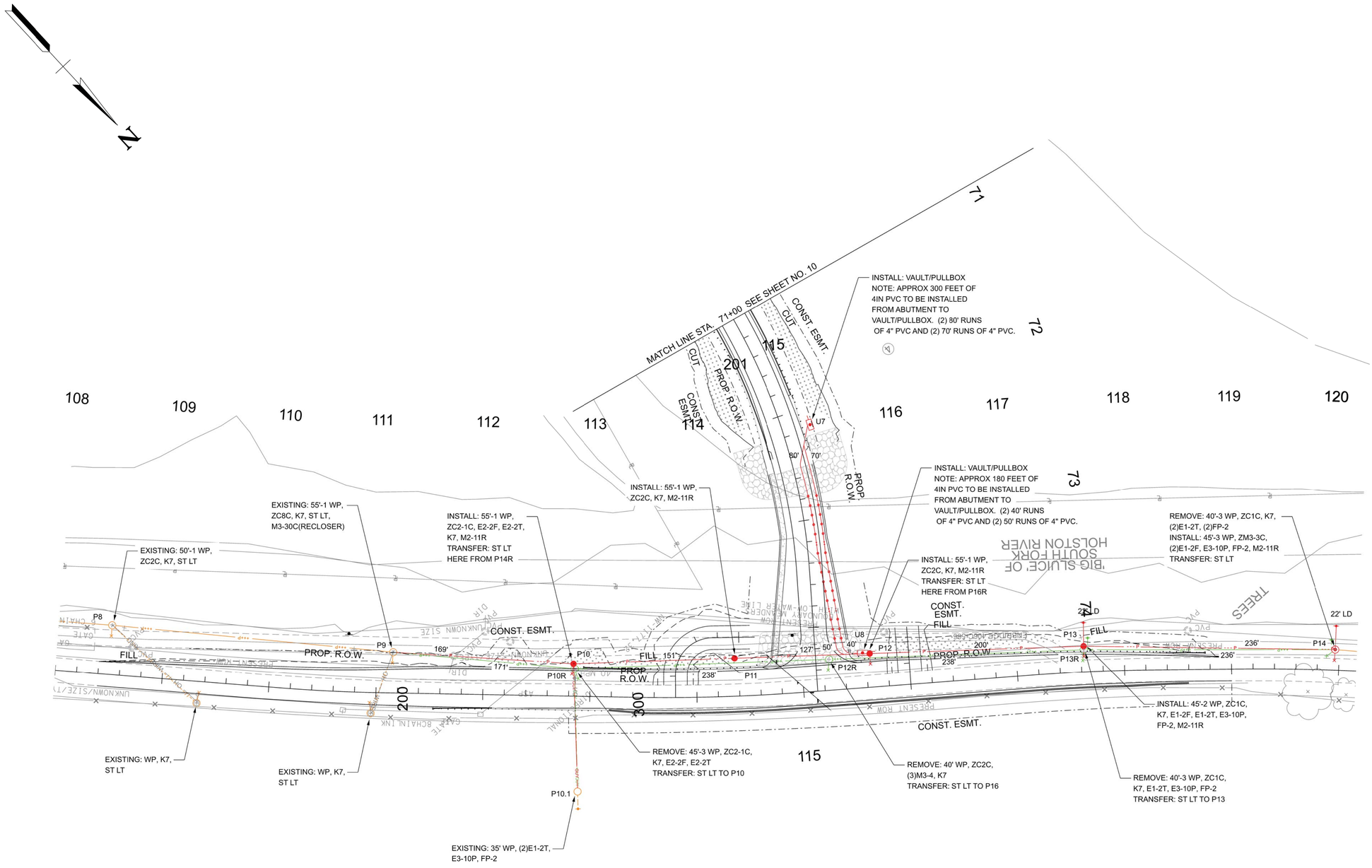
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	1"=50'
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 60+00 TO STA. 71+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-11

SULLIVAN COUNTY



JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

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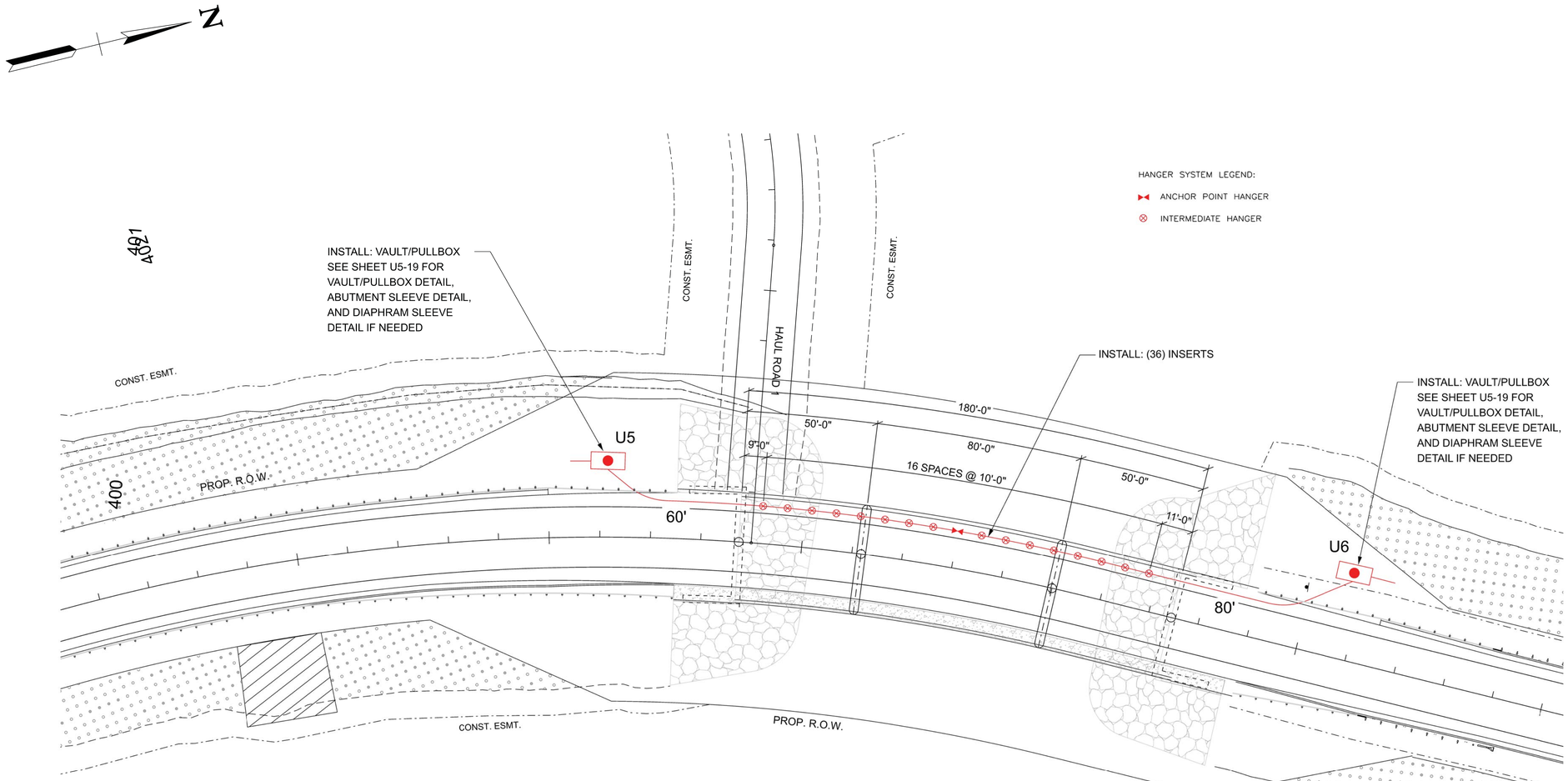
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 71+00 TO END OF PROJECT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-12

SULLIVAN COUNTY



GENERAL NOTES:

1. FOR BRIDGE ATTACHMENT DETAILS, SEE SHEET U5-13.
2. ANCHOR POINT HANGERS TO BE INSTALLED ACROSS THE BRIDGE AS SHOWN ABOVE.
3. INTERMEDIATE HANGERS TO BE INSTALLED AT 10'-0" CENTERS ACROSS BRIDGE EXCEPT FOR THE FIRST HANGER WHICH WILL BE INSTALLED AT 9'-0" AS SHOWN.
4. SPLIT STOP RINGS TO BE INSTALLED AT ANCHOR POINT HANGER LOCATIONS (SEE SHEET U5-13 FOR ADDITIONAL INFORMATION).
5. EXPANSION JOINTS TO BE INSTALLED AS REQUIRED, ALLOWING FOR A MINIMUM OF 0'-6" OF MOVEMENT AT EACH LOCATION. (SEE EXJOINT DETAIL ON SHEET U5-13 FOR MORE INFORMATION)
6. CONTRACTOR TO ENSURE THAT BELL ENDS OF CONDUIT ARE AT A DISTANCE OF NO LESS THAN 1'-0" FROM HANGER ASSEMBLY.
7. PLACE FIBERGLASS TO PVC CONDUIT ADAPTERS BEYOND ABUTMENT WALL FOR EACH CONDUIT.

CONDUIT SYSTEM WEIGHTS

	DESCRIPTION	WT/UNIT	# OF UNITS (EA/LF)	EXTENDED (LBS)
AEP POWER	(4) 4" BULLET RESISTANT FIBERGLASS CONDUIT	5.64 LB/FT	720 (LF)	4061
	4 " BULLET RESISTANT FIBERGLASS EXPANTION JOINT	5.64 LB	4 (EA)	23
	1/0 ALUMINUM UNDERGROUND PRIMARY	.78 LB/FT	540 (LF)	422
HANGERS	3'-6"x1'4" INTERMEDIATE SUPPORT HANGER FOR 4" CONDUIT SYSTEM	12 LB	16 (EA)	192
	3'-6"x1'4" ANCHOR POINT HANGER FOR 4" CONDUIT SYSTEM	17.50 LB	1 (EA)	17.5
	TOTAL SYSTEM WEIGHT (LBS)			4716
	TOTAL UNIT WEIGHT OF SYSTEM (LBS./FT.)			26.2

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2[illegible]
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

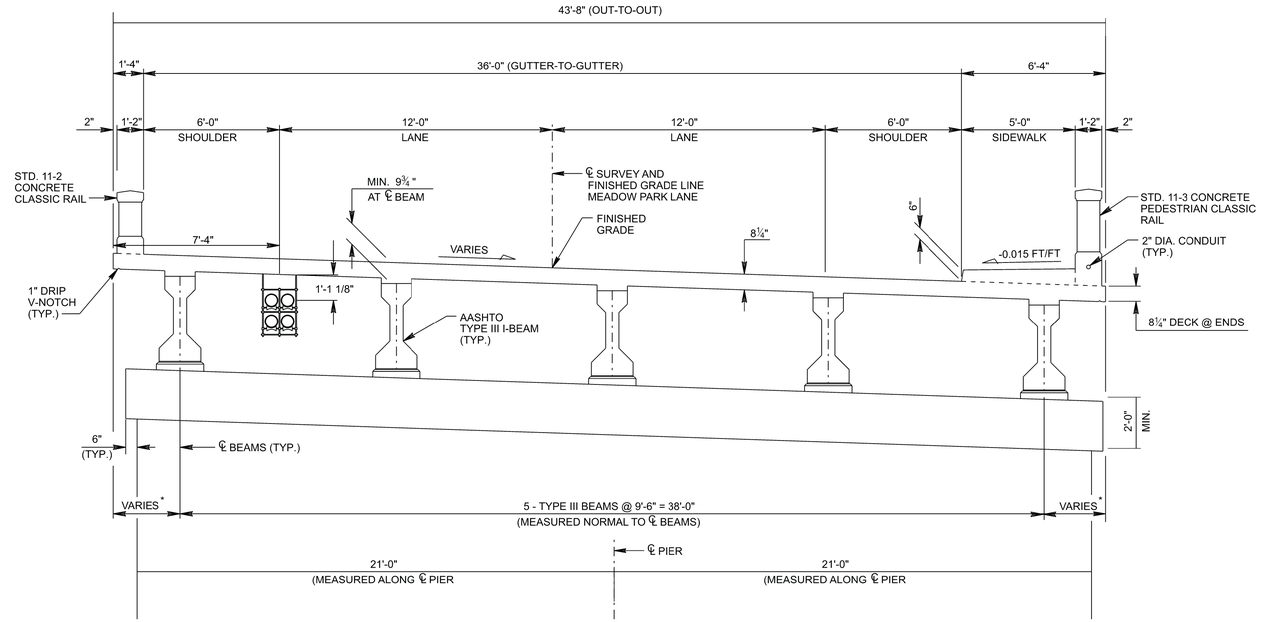
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
1"=10'	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
HORSE CREEK BRIDGE CROSSING PLAN

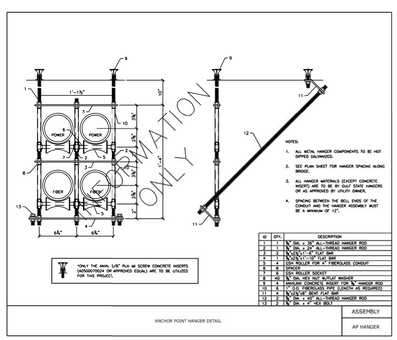
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-13

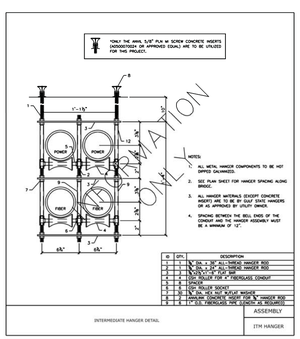
SULLIVAN COUNTY

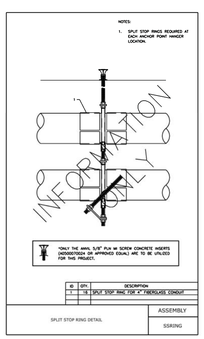


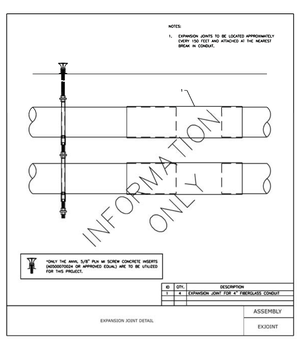
BRIDGE #1 OVER HORSE CREEK (STR-2)

FROM STA. 35+75.50 TO STA. 37+55.50









JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23005
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
N.T.S	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
HORSE CREEK BRIDGE CROSS SECTION

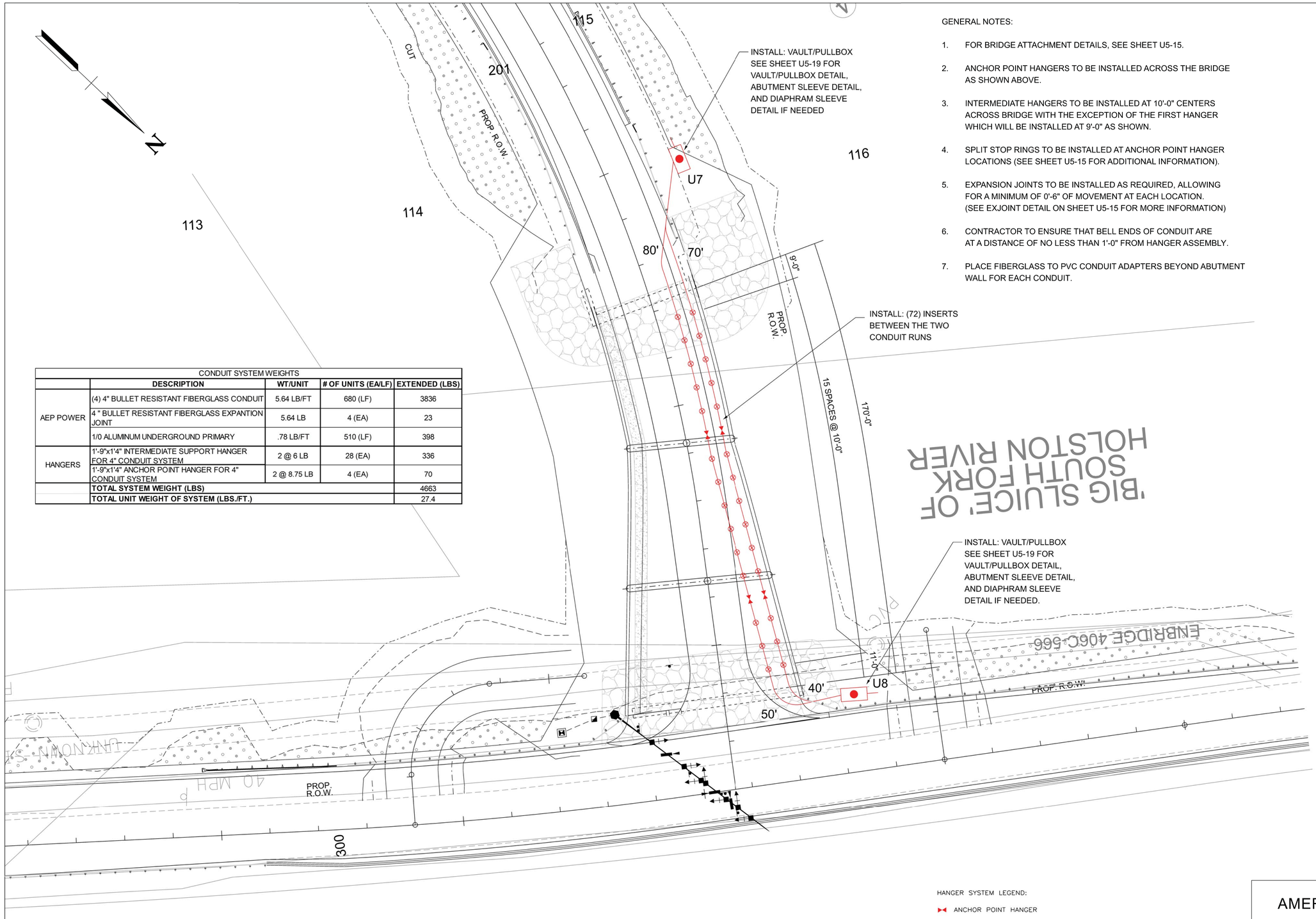
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-14

SULLIVAN COUNTY

GENERAL NOTES:

1. FOR BRIDGE ATTACHMENT DETAILS, SEE SHEET U5-15.
2. ANCHOR POINT HANGERS TO BE INSTALLED ACROSS THE BRIDGE AS SHOWN ABOVE.
3. INTERMEDIATE HANGERS TO BE INSTALLED AT 10'-0" CENTERS ACROSS BRIDGE WITH THE EXCEPTION OF THE FIRST HANGER WHICH WILL BE INSTALLED AT 9'-0" AS SHOWN.
4. SPLIT STOP RINGS TO BE INSTALLED AT ANCHOR POINT HANGER LOCATIONS (SEE SHEET U5-15 FOR ADDITIONAL INFORMATION).
5. EXPANSION JOINTS TO BE INSTALLED AS REQUIRED, ALLOWING FOR A MINIMUM OF 0'-6" OF MOVEMENT AT EACH LOCATION. (SEE EXJOINT DETAIL ON SHEET U5-15 FOR MORE INFORMATION)
6. CONTRACTOR TO ENSURE THAT BELL ENDS OF CONDUIT ARE AT A DISTANCE OF NO LESS THAN 1'-0" FROM HANGER ASSEMBLY.
7. PLACE FIBERGLASS TO PVC CONDUIT ADAPTERS BEYOND ABUTMENT WALL FOR EACH CONDUIT.

CONDUIT SYSTEM WEIGHTS				
	DESCRIPTION	**WT/UNIT**	**# OF UNITS (EA/LF)**	**EXTENDED (LBS)**
AEP POWER	(4) 4" BULLET RESISTANT FIBERGLASS CONDUIT	5.64 LB/FT	680 (LF)	3836
	4 " BULLET RESISTANT FIBERGLASS EXPANTION JOINT	5.64 LB	4 (EA)	23
	1/0 ALUMINUM UNDERGROUND PRIMARY	.78 LB/FT	510 (LF)	398
HANGERS	1'-9"x1'4" INTERMEDIATE SUPPORT HANGER FOR 4" CONDUIT SYSTEM	2 @ 6 LB	28 (EA)	336
	1'-9"x1'4" ANCHOR POINT HANGER FOR 4" CONDUIT SYSTEM	2 @ 8.75 LB	4 (EA)	70
	TOTAL SYSTEM WEIGHT (LBS)			4663
	TOTAL UNIT WEIGHT OF SYSTEM (LBS./FT.)			27.4



HANGER SYSTEM LEGEND:

- ANCHOR POINT HANGER
- INTERMEDIATE HANGER

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2000
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	1"=20'
DATE	04.29.26

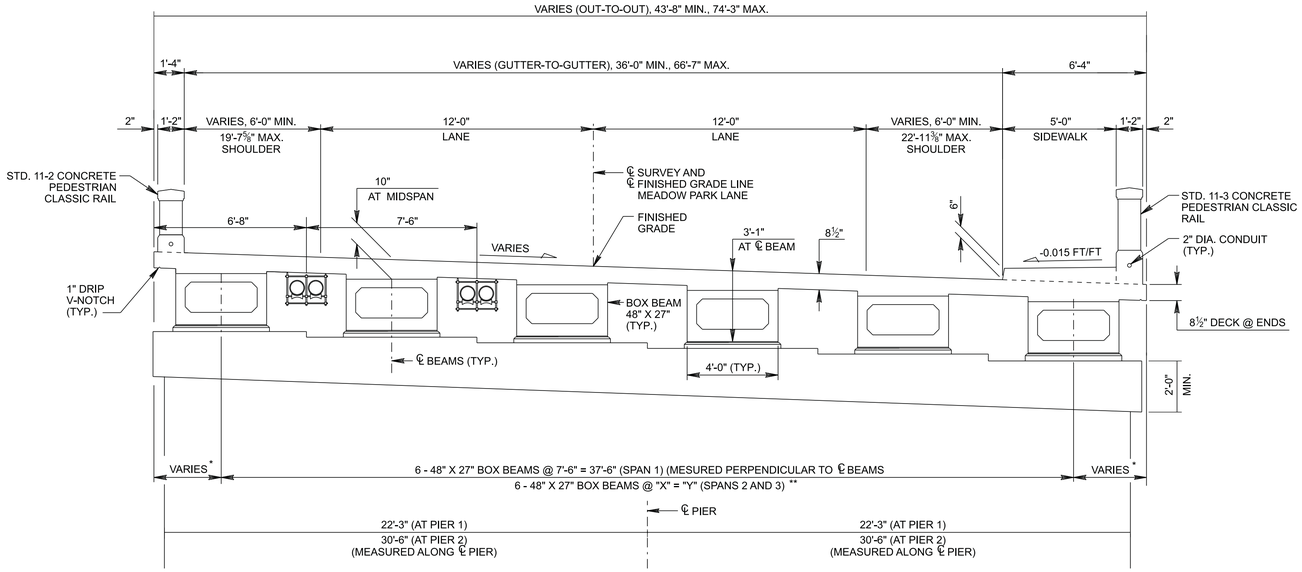
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
"THE SLUICE" BRIDGE CROSSING PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-15

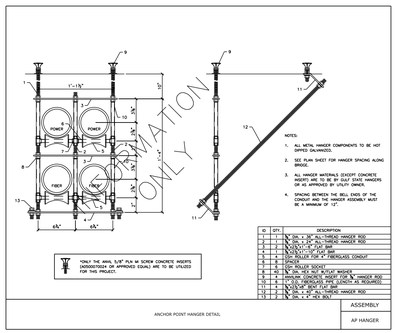
SULLIVAN COUNTY

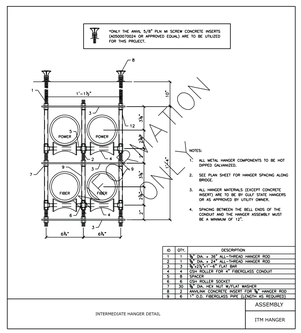
REV 07.22.2026: CHANGED TITLE BLOCK TO READ "THE SLUICE" BRIDGE CROSS SECTION AND TO MATCH INDEX ON SHEET U5-01.

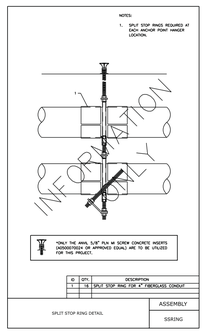


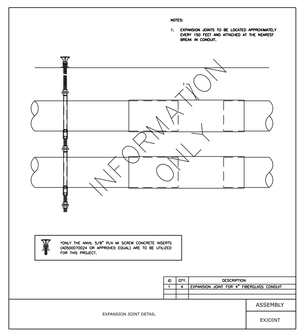
BRIDGE #2 OVER "THE SLUICE" (STR-1)

FROM STA. 72+55.70 TO STA. 74+25.70









JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23005
STATE OF TENNESSEE
07-23-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	N.T.S
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
"THE SLUICE" BRIDGE CROSS SECTION

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-16

SULLIVAN COUNTY

INSTALLATION POLE LOCATIONS						
POLE NO.	POLE COORDINATES		INSIDE ANCHOR COORDINATES		OUTSIDE ANCHOR COORDINATES	
	NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
U1	811157.798	2978191.687				
U2	811573.670	2978038.124				
U3	811672.262	2978266.029				
U5	813825.872	2976910.468				
U6	814080.095	2977018.295				
U7	817042.441	2978584.072				
U8	817231.939	2978692.929				
P2	813090.397	2977361.820			813085.940	2977386.420
P2					813094.854	2977337.221
P3	813131.818	2977131.841				
P4	813156.860	2976989.834				
P5	813185.541	2976809.851			813192.559	2976830.702
P5					813207.465	2976808.020
P5					813189.003	2976788.125
P10	817056.058	2978897.991				
P11	817154.515	2978784.055				
P12	817236.980	2978688.520				
P13	817367.576	2978537.318			817351.276	2978522.542
P14	817529.709	2978366.881			817514.209	2978351.270

CONDUCTOR INSTALLS					
SHEET NUMBER(S)	FROM	TO	WIRE SIZE	CIRCUIT LENGTH (LF)	TOTAL LENGTH (LF)
U5-04	U1	U2	UG PRI COND 4/0 AL 25 KV	446	1,338
U5-04	U1	U2	4 DUCT BANK @ 36IN-48IN DEPTH	446	446
U5-04	U1	U2	4IN DIA PVC PIPE	446	1,784
U5-04	U2	U3	UG PRI COND 4/0 AL 25 KV	261	783
U5-04	U2	U3	4 DUCT BANK @ 36IN-48IN DEPTH	261	261
U5-04	U2	U3	4IN DIA PVC PIPE	261	1,044
U5-07	ABUTMENT	U5	4 DUCT BANK @ 36IN-48IN DEPTH	60	60
U5-07	ABUTMENT	U5	4IN DIA PVC PIPE	60	240
U5-07	ABUTMENT	U5	4 DUCT BANK @ 36IN-48IN DEPTH	80	80
U5-07	ABUTMENT	U6	4IN DIA PVC PIPE	80	320
U5-06	P2	P5	OH COND 1/0 6/1 ACSR RAVEN	563	1,689
U5-06	P2	P5	OH COND 2 7/1 ACSR SPARATE	563	563
U5-06	P2	P2.1E	SERVICE CONDUCTOR 2 AL TRIPLEX	55	55
U5-11	ABUTMENT	U7	4 DUCT BANK @ 36IN-48IN DEPTH	120	120
U5-11	ABUTMENT	U7	4IN DIA PVC PIPE	70	140
U5-11	ABUTMENT	U7	4IN DIA PVC PIPE	80	160
U5-11	ABUTMENT	U8	4 DUCT BANK @ 36IN-48IN DEPTH	70	70
U5-11	ABUTMENT	U8	4IN DIA PVC PIPE	40	80
U5-11	ABUTMENT	U8	4IN DIA PVC PIPE	50	100
U5-11	P9	P14	OH COND 556.5 19 AAC DAHLIA	883	2,649
U5-11	P9	P14	OH COND 4/0 6/1 ACSR PENGUIN	883	883

TEMPORARY INSTALLATION POLE LOCATIONS						
POLE NO.	POLE COORDINATES		INSIDE ANCHOR COORDINATES		OUTSIDE ANCHOR COORDINATES	
	NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
P2					813114.685	2977367.744
P1T	812954.766	2977326.537			812947.112	2977347.163
P2T	812876.147	2977287.964			812866.221	2977307.597
					812856.397	2977278.272
P3T	812941.454	2977158.248			812923.399	2977145.678
P4T	813101.172	2976986.929			813119.353	2976999.316
P5					813195.083	2976790.028

TEMPORARY CONDUCTOR INSTALLS					
SHEET NUMBER(S)	FROM	TO	WIRE SIZE	CIRCUIT LENGTH (LF)	TOTAL LENGTH (LF)
UX-06	P2T	P2T	OH COND 1/0 6/1 ACSR RAVEN	229	687
UX-06	P2	P2T	OH COND 2 7/1 ACSR SPARATE	229	229
UX-06	P2T	P5	OH COND 1/0 6/1 ACSR RAVEN	578	1,734
UX-06	P2T	P5	OH COND 2 7/1 ACSR SPARATE	578	578

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 125403
STATE OF TENNESSEE

04-24-2026

AMERICAN ELECTRIC POWER

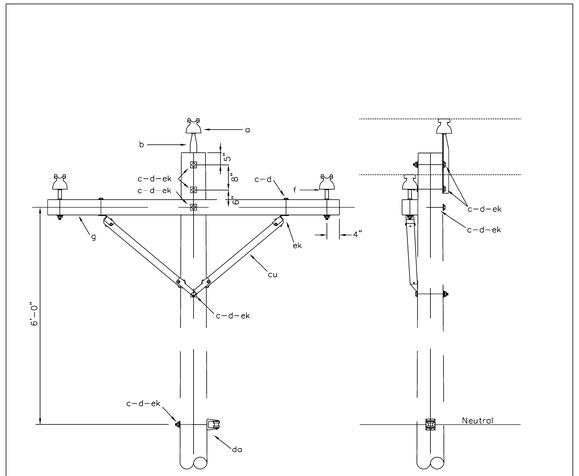
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
N.T.S	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
POLE LOCATIONS AND CONDUCTOR INSTALLS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-17

SULLIVAN COUNTY

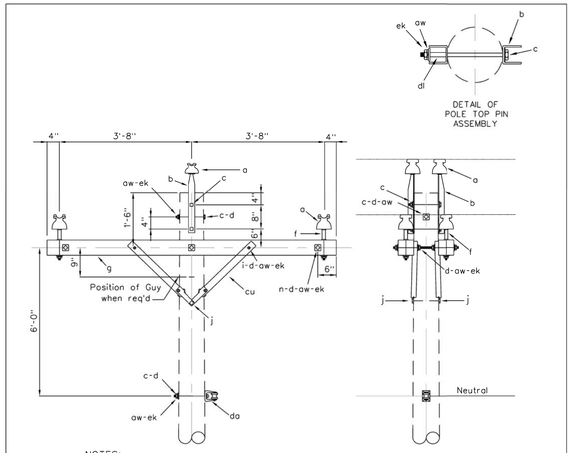


ITEM	QUANTITY 35kV	DESCRIPTION
a	3	Insulator, Pin Type, 35kV
b	1	Pin, Pole Top, 24"
c	2	Bolt, Machine, 1/2" x Required Length
c	5	Bolt, Machine, 5/8" x Required Length
d	2	Washer, Round, Galvanized, 1 3/8" with 9/16" hole
d	6	Washer, 2 1/4" Square With 11/16" Hole
f	2	Pin, Crossarm
g	1	Crossarm, 3 1/2" x 4 1/2" x 8'-0"
cu	2	Brace, Wood, 60°
da	1	Bracket, Rigid Clevis, Insulated w/ 3" spool
ek	2	Double Coil Lockwasher, 1/2"
ek	5	Double Coil Lockwasher, 5/8"

CROSSARM CONSTRUCTION
THREE-PHASE, TANGENT STRUCTURE
SINGLE LINE ARM

Gresham Smith

DWG. No.
ZC1C



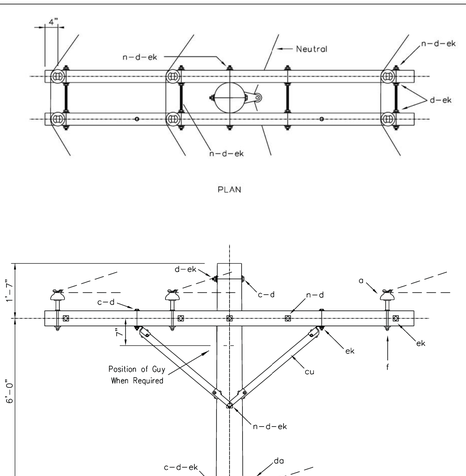
NOTES:
1- Maximum transverse load is 1000 lbs. per conductor
2- When transverse load is more than 1000 pounds substitute C2-2CL as required.

ITEM	QUANTITY 35kV	DESCRIPTION
a	6	Insulator, Pin Type
b	2	Pin, Pole Top, 20" (See Notes 3 and 4)
c	4	Bolt, Machine, 5/8" x Required Length
d	4	Washer, Round, Galvanized, 3/8"
d	13	Washer, 2 1/4" Square With 11/16" Hole
f	4	Pin, Crossarm, Steel, 5/8" x 10 3/4" with Washer
g	2	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
i	4	Bolt, Carriage, 3/8" x 5", with Nut
j	2	Screw, Lag, 1/2" x 4"
n	3	Bolt, Double Arming, 5/8" x Required Length
ow	4	Washer, Spring, 3/8"
ow	10	Washer, Spring, 5/8"
cu	4	Brace, Wood, 28"
da	1	Bracket, Rigid Clevis, Insulated
dl	2	Pipe Spacer, 3/4" dia. x 1 1/2" (See Notes 3 and 4)
ek	4	Locknut, 3/8"
ek	14	Locknut, 5/8"

CROSSARM CONSTRUCTION
THREE-PHASE, SMALL ANGLE STRUCTURE
DOUBLE LINE ARM

Gresham Smith

DWG. No.
ZC2C

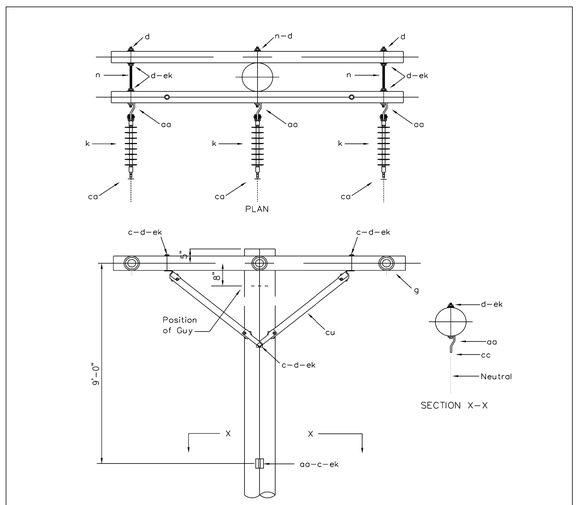


ITEM	QUANTITY 35kV	DESCRIPTION
a	6	Insulator, Pin Type, 35kV
c	2	Bolt, Machine, 1/2" x Required Length
c	3	Bolt, Machine, 5/8" x Required Length
d	2	Washer, Round, 1 3/8" with 9/16" Hole
d	22	Washer, 2 1/4" Square with 11/16" Hole
f	6	Pin, Crossarm, Drop in Type
g	2	Crossarm, 3 1/2" x 4 1/2" x 10'-0"
n	5	Bolt, Double Arming, 5/8" x Required Length
cu	2	Brace, Wood, 60°
da	1	Bracket, Rigid Clevis, Insulated w/ 3" spool
ek	2	Double Coil Lockwasher, 1/2"
ek	13	Double Coil Lockwasher, 5/8"

CROSSARM CONSTRUCTION
THREE-PHASE, LARGE CONDUCTOR
ANGLE STRUCTURE, DOUBLE LINE ARM

Gresham Smith

DWG. No.
ZC2-2CL

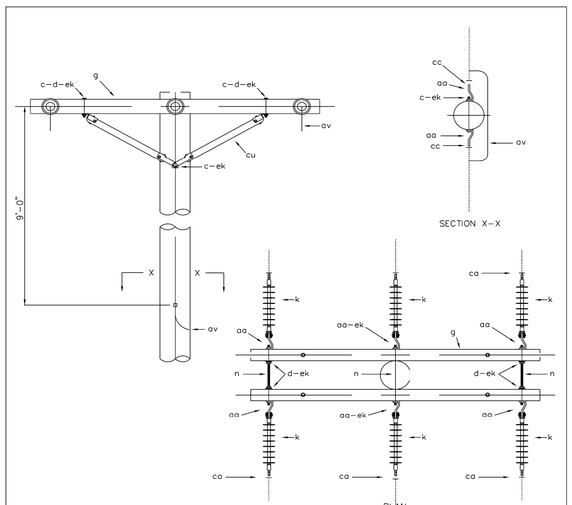


ITEM	QUANTITY 35kV	DESCRIPTION
c	2	Bolt, Machine, 1/2" x Required Length
d	4	Washer, Round, Galvanized, 1/2"
d	9	Washer, 2 1/4" Square with 11/16" Hole
g	2	Crossarm, 3 3/4" x 4 3/4" x 8'-0"
k	3	Insulator, Suspension, 35 kV
n	3	Bolt, Double Arming, 5/8" x Required Length
oo	4	Deadend Tongue
co	3	Deadend Assembly, Primary
cc	1	Deadend Assembly, Neutral
cu	2	Brace, Wood, 60°
ek	2	Double Coil Lockwasher, 1/2"
ek	6	Double Coil Lockwasher, 5/8"

CROSSARM CONSTRUCTION
PRIMARY, THREE-PHASE, SINGLE DEADEND STRUCTURE
DOUBLE 8' LINE ARM

Gresham Smith

DWG. No.
ZC7C

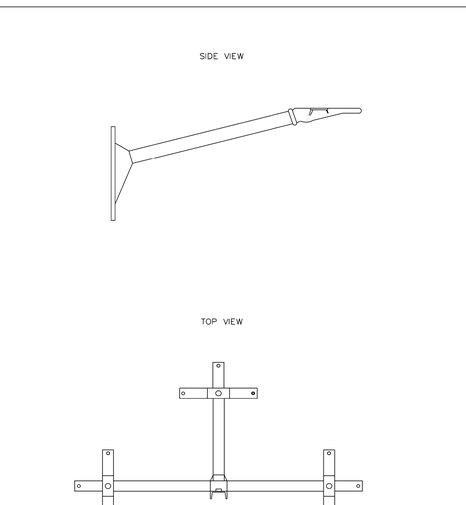


ITEM	QUANTITY	DESCRIPTION
c	4	Bolt, Machine, 1/2" x Required Length
c	2	Bolt, Machine, 5/8" x Required Length
d	4	Washer, Round, Galvanized, 1/2"
d	4	Washer, 2 1/4" Square with 11/16" Hole
g	2	Crossarm, 3 3/4" x 4 3/4" x 8'-0"
k	6	Insulator, Suspension, 35kV
n	3	Bolt, Double Arming, 5/8" x Required Length
p	–	Connectors, As Required
aa	8	Deadend Tongue
av	–	Jumpers and Leads, As Required
co	6	Deadend Assembly, Primary
cc	2	Deadend Assembly, Neutral
cu	4	Brace, Wood, 60°
ek	2	Double Coil Lockwasher, 1/2"
ek	8	Double Coil Lockwasher, 5/8"

CROSSARM CONSTRUCTION
PRIMARY, THREE-PHASE, DOUBLE DEADEND STRUCTURE
DOUBLE 8' LINE ARM

Gresham Smith

DWG. No.
ZC8C



ITEM	QUANTITY	DESCRIPTION
*	1	18" Fiberglass Bracket

MOUNTING BRACKET, FIBERGLASS

Gresham Smith

DWG. No.
F.G. BRACKET

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 202013
STATE OF TENNESSEE
04-24-2026

AMERICAN ELECTRIC POWER

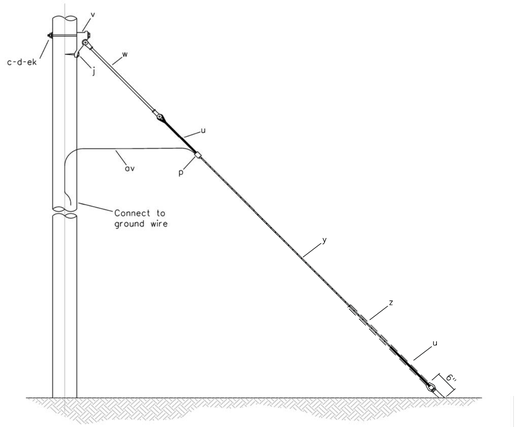
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	N.T.S
DATE	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-18

SULLIVAN COUNTY

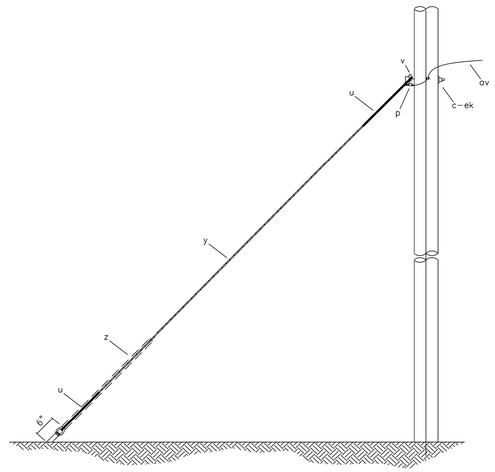


ITEM	QUANTITY E1-2F	DESCRIPTION
c	1	Bolt, Machine, 5/8" x Required Length
d	1	Washer, Curved, Square, 3"
j	1	Screw, Lag, 1/2" x 4"
p	-	Connectors, As Required
u	2	Formed Wire Grip, Size As Required
v	1	Pole Guy Attachment
w	1	Insulator, Fiberglass, Strain, 8"
y	-	3/8" EHS Guy Strand, Length As Req'd
z	1	Guy Marker, Plastic, Yellow
av	1	Jumper, #4 S.D. Copper or Equivalent
ek	1	Double Coil Lockwasher, 5/8"

INSULATED GUY ASSEMBLY

Gresham Smith

DWG. No. E1-2F

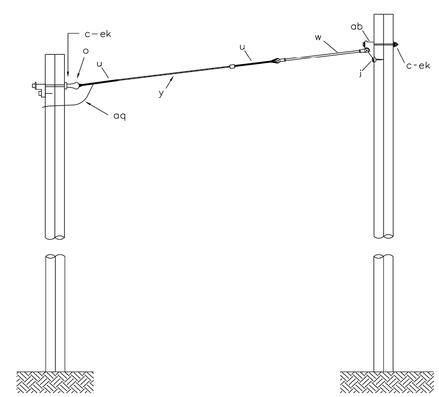


ITEM	QUANTITY E1-2	DESCRIPTION
c	1	Bolt, Machine, 5/8" x Required Length
d	1	Washer, Curved, Square, 3"
j	–	Screw, Lag, 1/2" x 4", As Required
p	–	Connectors, As Req'd
u	2	Formed Wire Grip, Size as Required
v	1	Guy Attachment, Heavy Duty
y	1	3/8" EHS Guy Strand, Length As Req'd
z	1	Guy Marker, Plastic, Yellow
av	1	Jumper, #4 S.D. Copper or Equivalent
ek	1	Double Coil Lockwasher, 5/8"

NON INSULATED GUY INSTALLATION

Gresham Smith

DWG. No. E1-2T

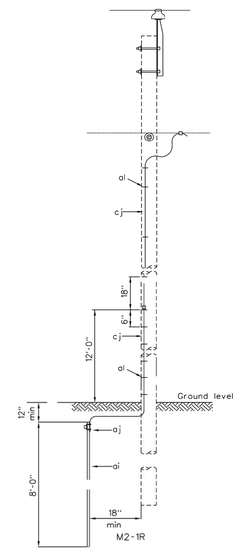


ITEM	QUANTITY E2-2F	DESCRIPTION
c	1	Bolt, Machine, 5/8" x Required Length
d	1	Washer, Curved, Square, 3"
j	1	Screw, Lag, 1/2" x 4", As Required
o	1	Nut, Thimble Eye, 5/8"
P	•	Connectors As Req'd
u	2	Formed Wire Grip, Size as Required
w	1	Insulator, Fiberglass, Strain, 8"
y	–	3/8" EHS Guy Strand, Length As Req'd
ab	1	Guy Attachment, Heavy Duty (8500 lbs.)
aq	1	Jumpers, #4 S.D. or Equivalent
ek	1	Double Coil Lockwasher, 5/8" As Required

OVERHEAD GUY, INSULATED

Gresham Smith

DWG. No. E2-2F

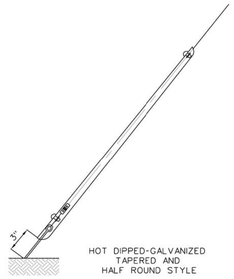


ITEM	QUANTITY M2-1R	DESCRIPTION
P	•	Connectors, Compression, As Required
ai	1	Rod, Ground 5/8" diameter 8'-0"
aj	1	Clamp, Ground Rod
al	•	Staples, Ground Wire, as req'd
di	-	Ground Wire Clips or Galvanized Staples or Stainless Steel Staples
cj	•	Ground wire, #4 S.D. Copper Clad, (Theft Deterrent) Length As Req'd
cj	-	Ground Wire Extension, As Required
av	-	Jumper, #4 S.D. Copper or Equiv., Length As Req'd

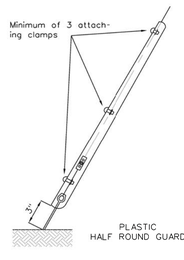
GROUNDING ASSEMBLY GROUND ROD TYPE

Gresham Smith

DWG. No. M2-11R



HOT DIPPED-GALVANIZED TAPERED AND HALF ROUND STYLE



PLASTIC HALF ROUND GUARD

NOTES:

1- Guy guards shall be no less than 8 feet long.

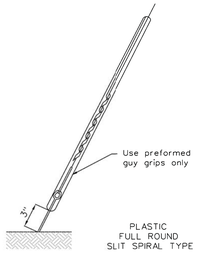
2- Visibility of colored plastic guards can be improved by use of color or color patterns which provide contrast with the surroundings.

3- Guards for sidewalk guys should be full round type or installed so that mounting clamps will not come in contact with pedestrians.

4- Guards shall be installed so that anchor rod eye is covered.

DESIGNATE

E3-10G (Galvanized)
E3-10P (Plastic)

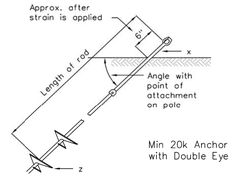


PLASTIC FULL ROUND SLIT SPIRAL TYPE

GUY GUARDS

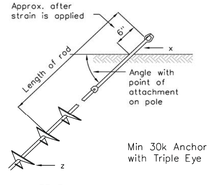
Gresham Smith

DWG. No. E3-10



Min 20k Anchor with Double Eye

FP-2
POWER INSTALLED HELIX SCREW ANCHOR



Min 30k Anchor with Triple Eye

FP-3
POWER INSTALLED DOUBLE HELIX SCREW ANCHOR

ITEM	QUANTITY FP-2	QUANTITY FP-3	DESCRIPTION
x	1	1	Anchor Shaft, size as Req'd
z	–	–	Helix Hub, Size as Req'd., Single Blade
z	1	–	Helix Hub, Size as Req'd., Double Blade
z	–	1	Helix Hub, Size as Req'd., Triple Blade
	•	•	Extension Rod, 3'-6"- Additional Extension Rods 3'-6" and 7'-0" Lengths as Required.

POWER INSTALLED SCREW ANCHORS

Gresham Smith

DWG. No. FP-2 & FP-3

JEFF L. MEADOW
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 130105

04-24-2026

AMERICAN ELECTRIC POWER

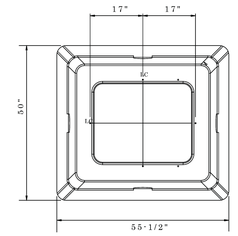
JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE	DATE
N.T.S	04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

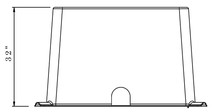
CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U5-19

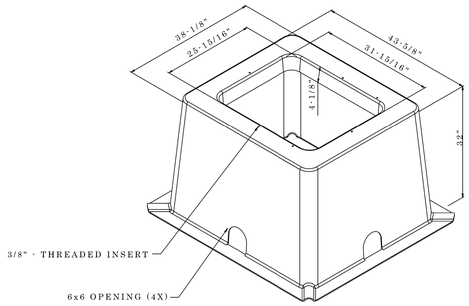
SULLIVAN COUNTY



TOP VIEW

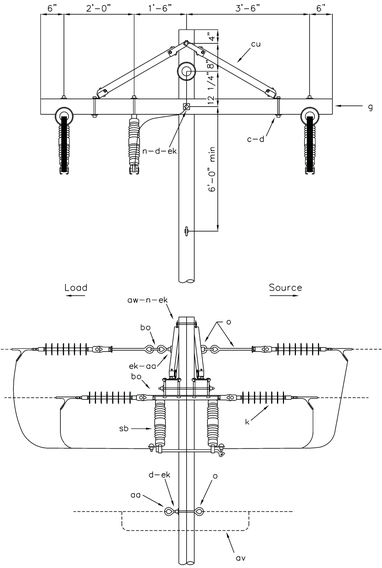


SIDE VIEW



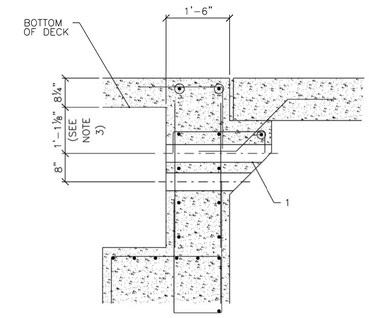
WITH BOLT DOWN FIBERGLASS LID

TYPICAL TRANSFORMER VAULT OR PULL BOX	
Gresham Smith	DWG. No. VAULT/ PULL BOX



ITEM	QUANTITY 35kV	DESCRIPTION
c	4	Bolt, Machine, 1/2" x Req'd Length
d	4	Washer, 1 3/8" Round With 9/16" Hole
d	2	Washer, 2 1/4" Square With 9/16" Hole
d	4	Washer, Square, Curved, 3" x 3" with 9/16" Hole (Neutral)
9	2	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
k	6	Insulator, Suspension, 6"
n	3	Bolt, Double Arming, 5/8" x Req'd Length
o	4	Bolt, Eye, 5/8" x Req'd Length
p	*	Connectors As Req'd
aa	2	Nut, Eye, 5/8"
av	*	Jumpers, As Req'd
bo	2	Shackle, Anchor
cu	2	Brace, Wood, 60"
ek	*	Locknut 5/8", As Req'd
sb	3	Disconnect Switch With Mounting Hardware, 900 Amp

CROSSARM CONSTRUCTION DOUBLE DEADEND STRUCTURE, DISCONNECT SWITCHES	
Gresham Smith	DWG. No. ZM3-3C



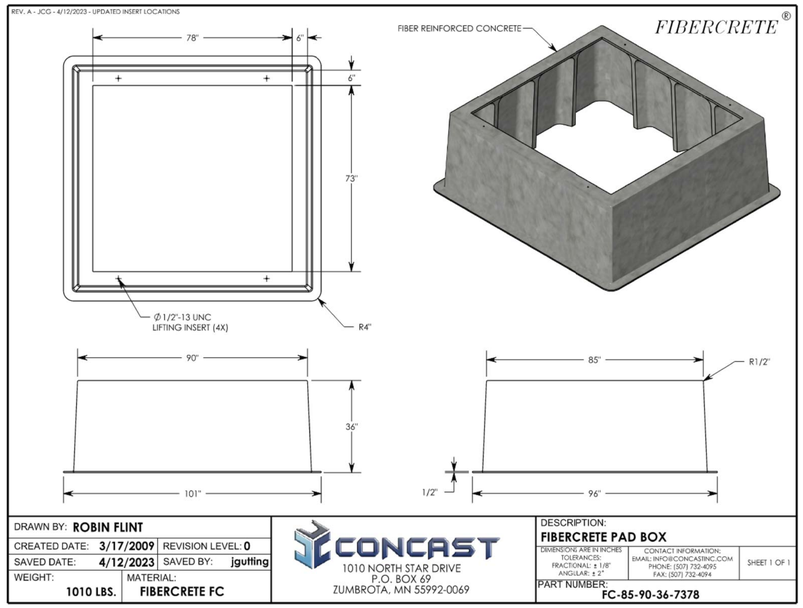
NOTES:

1. INSTALL PIPE SLEEVES AT EACH BRIDGE ABUTMENT.
2. AFTER FIBERGLASS CONDUIT IS INTALLED THROUGH SLEEVES, SEAL AROUND CONDUIT WITH NON-EPOXY CEMENT GROUT.
3. FIELD VERIFY DISTANCE FROM TOP OF FINAL GRADE TO CENTERLINE OF PIPE SLEEVE TO LINE UP WITH BRIDGE CONDUIT SYSTEM.

ID	QTY.	DESCRIPTION
1	4	5" DIA. STEEL PIPE SLEEVE (LENGTH AS REQ'D)

ABUTMENT SLEEVE DETAIL	ASSEMBLY
	AB SLEEVE

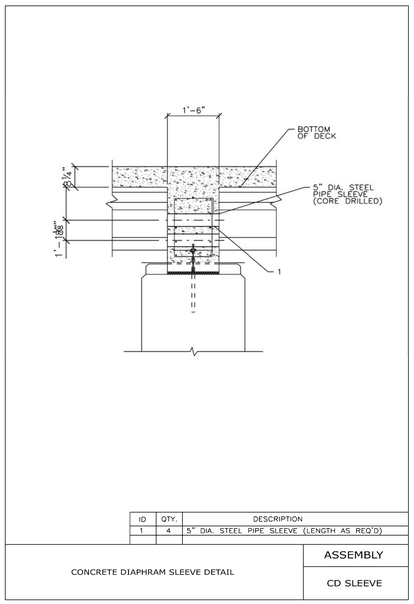
REV. A - JCG - 4/12/2023 - UPDATED INSERT LOCATIONS



DRAWN BY: ROBIN FLINT			
CREATED DATE: 3/17/2009	REVISION LEVEL: 0		
SAVED DATE: 4/12/2023	SAVED BY: jgutting		
WEIGHT: 1010 LBS.	MATERIAL: FIBERCRETE FC		

CONCAST
1010 NORTH STAR DRIVE
P.O. BOX 69
ZUMBROTA, MN 55992-0069

DESCRIPTION: FIBERCRETE PAD BOX
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± 1/8" ANGULAR: ± 2°
CONTACT INFORMATION: EMAIL: INFO@CONCASTINC.COM PHONE: (507) 732-4095 FAX: (507) 732-4094
SHEET 1 OF 1
PART NUMBER: FC-85-90-36-7378



ID	QTY.	DESCRIPTION
1	4	5" DIA. STEEL PIPE SLEEVE (LENGTH AS REQ'D)

CONCRETE DIAPHRAM SLEEVE DETAIL	ASSEMBLY
	CD SLEEVE

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 123435
STATE OF TENNESSEE

04-24-2026

AMERICAN ELECTRIC POWER

JOB NUMBER:	43074.15
DESIGNED:	SRR
DRAWN:	MLM
CHECKED:	JLM
SCALE: N.T.S	DATE: 04.29.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-1

UTILITIES INDEX

SHEET NUMBER	SHEET NAME
U6-1	ESTIMATED QUANTITIES & DRAWING INDEX
U6-2	FOOTNOTE DESCRIPTIONS
U6-3	GENERAL NOTES & LEGEND
U6-4	TELEPHONE RELOCATION STA. 10+00 TO STA. 15+00
U6-5	TELEPHONE RELOCATION STA. 15+00 TO STA. 24+00
U6-6	TELEPHONE RELOCATION STA. 24+00 TO STA. 33+00
U6-7	TELEPHONE RELOCATION STA. 33+00 TO STA. 42+00
U6-8	TELEPHONE RELOCATION STA. 42+00 TO STA. 51+00
U6-9	TELEPHONE RELOCATION STA. 51+00 TO STA. 60+00
U6-10	TELEPHONE RELOCATION STA. 60+00 TO STA. 71+00
U6-11	TELEPHONE RELOCATION STA. 71+00 TO STA. 74+59.91

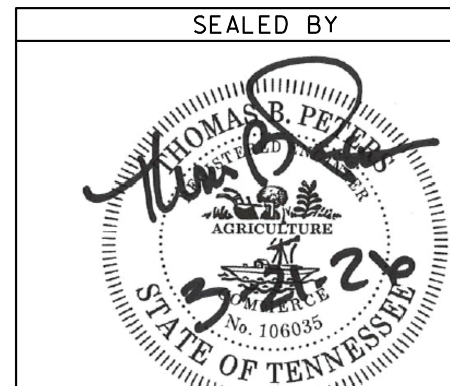
SEE U6-2 FOR FOOTNOTE DESCRIPTIONS

ESTIMATED UTILITY QUANTITIES

FOOTNOTE NO.	ITEM NO.	DESCRIPTION	UNIT	Project No. 1: 82956-3594-04 QUANTITY	% Utility Betterment	%Project Public	%Project Private
1-	793-01.40	ANCHOR 3/4IN	EACH	4	0.00%	12.00%	88.00%
2-	793-02.08	GUY WIRE 10M OR 3/8IN	EACH	9	0.00%	12.00%	88.00%
3-	793-02.99	INSTALL GUY GUARD	EACH	9	0.00%	12.00%	88.00%
4-	793-03.01	25 PAIR GROUP AERIAL SPLICE	EACH	28	0.00%	12.00%	88.00%
5-	793-03.03	10M STRAND	L.F.	745	0.00%	12.00%	88.00%
6-	793-03.12	50 PAIR CABLE	L.F.	815	0.00%	12.00%	88.00%
7-	793-03.40	INSTALL STRAND BOND	EACH	9	0.00%	12.00%	88.00%
8-	793-04.01	RELASH/DELASH CABLE	L.F.	200	0.00%	12.00%	88.00%
9-	793-04.06	READY ACCESS CLOSURE	EACH	6	0.00%	12.00%	88.00%
10-	793-04.08	TRANSFER AERIAL CABLE	EACH	17	0.00%	12.00%	88.00%
11-	793-04.12	UNDERGROUND SPLICE CLOSURE	EACH	4	0.00%	12.00%	88.00%
12-	793-07.04	48 FIBER (MATERIAL ONLY)	L.F.	1500	0.00%	12.00%	88.00%
13-	793-07.16	12-96 FIBER (INSTALLATION ONLY)	L.F.	1500	0.00%	12.00%	88.00%
14-	793-07.23	FIBER OPTIC MAINTENANCE LOOP	EACH	4	0.00%	12.00%	88.00%
15-	793-07.25	SINGLE FIBER OPTIC CABLE SPLICE	EACH	120	0.00%	12.00%	88.00%
16-	793-07.73	FIBER(48) AERIAL PRESS SPLICE CLOSURE	EACH	2	0.00%	12.00%	88.00%
17-	793-07.99	TEST BARE FIBER	EACH	96	0.00%	12.00%	88.00%
18-	793-10.20	EXPOSE EXISTING CABLE/CONDUIT ALL DEPTHS	L.F.	60	0.00%	12.00%	88.00%
19-	793-11.13	BURIED RISER GUARD	EACH	4	0.00%	12.00%	88.00%
20-	793-11.17	COMPOSITE HANDHOLE 5FTX3FTX3FT	EACH	2	0.00%	12.00%	88.00%
21-	793-11.20	HANDHOLE 30INX48IN	EACH	2	0.00%	12.00%	88.00%
22-	793-12.02	REARRANGEMENT EXISTING CABLE	EACH	10	0.00%	12.00%	88.00%
23-	793-12.05	200 PAIR UG CABLE	L.F.	1060	0.00%	12.00%	88.00%
24-	793-13.06	25 PAIR GROUP UG SPLICE	EACH	17	0.00%	12.00%	88.00%
25-	793-13.12	1 DUCT FORMATION @ 36IN DEPTH	L.F.	230	0.00%	12.00%	88.00%
26-	793-13.17	2 DUCT FORMATION @ 36IN DEPTH	L.F.	900	0.00%	12.00%	88.00%
27-	793-14.01	SAND ENCASEMENT PER DUCT	L.F.	660	0.00%	12.00%	88.00%
28-	793-14.02	CONCRETE ENCASEMENT PER DUCT	L.F.	1370	0.00%	12.00%	88.00%
29-	793-14.12	1 1/4IN INNERDUCT	L.F.	2760	0.00%	12.00%	88.00%
30-	793-14.41	LATERALLY ADJUST CONDUIT BANK	L.F.	60	0.00%	12.00%	88.00%
31-	793-11.31	REMOVE HANDHOLE	EACH	3	0.00%	12.00%	88.00%
32-	793-80.01	REMOVE CONDUIT/DUCT BANK FROM CABLE	L.F.	8	0.00%	12.00%	88.00%
33-	793-98.01	REMOVE AERIAL CABLE AND WIRE	L.F.	6300	0.00%	12.00%	88.00%
34-	793-98.04	REMOVE POLES ALL SIZES	EACH	10	0.00%	12.00%	88.00%
35-	793-98.05	RETIRE BURIED FACILITIES IN PLACE	L.F.	530	0.00%	12.00%	88.00%
36-	793-98.08	REMOVE ANCHOR (ANY SIZE)	EACH	4	0.00%	12.00%	88.00%
37-	793-98.09	REMOVE DOWN GUY	EACH	7	0.00%	12.00%	88.00%

BRIGHTSPEED
101 NORTH ROAN ST.
JOHNSON CITY, TN 37601
ANDY ICE
423-461-7724
ANDREW.F.ICE@BRIGHTSPEED.COM

SEALED BY



BRIGHTSPEED

ESTIMATED QUANTITIES
UTILITIES INDEX

$$$$SYTIME$$$$$$
$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-2

1) INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO DIGGING HOLE, BLASTING OR MECHANICALLY INSERTING INTO GROUND, BONDING/GROUNDING. PISA 8" WITH TRIPLE EYE.
2) INCLUDES SETUP, TRAFFIC CONTROL, GUY WIRE, GUARD, BONDING/GROUNDING AND POLE HARDWARE. (5/16" EHS)
3) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
4) 3M MODULES 4000-G/TR REQUIRED. SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
5) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, BONDING/GROUNDING, AND TENSIONING. (5/16" EHS)
6) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, BONDING/GROUNDING, AND TENSIONING.
7) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
8) REBONDING AND GROUNDING AND RELASHING CABLE, TRAFFIC CONTROL.
9) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, MOUNTING HARDWARE BONDING/GROUNDING AND SPLICING. (COPPER SPLICE CASE)
10) INCLUDES MOUNTING HARDWARE, BONDING/GROUNDING, STRAND.
11) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS. (PLP ARMADILLO FOR COPPER SPLICE) (COMMSCOPE FOSC 450 FOR FIBER SPLICE)
12) INCLUDES ALL MATERIALS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MOUNTING HARDWARE, BONDING/GROUNDING, STRAND SIZE AS INDICATED IN SPECS, AND LOOPS.
13) INCLUDES ALL LABOR INCLUDING TRAFFIC CONTROL AND SETUP, REMOVAL OF LID AND COLLARS, BACKFILL WITH GRAVEL.
14) INCLUDES DELASHING AND RELASHING ACCOMPLISHING THE PLACEMENT/RELOCATION OF THE FIBER LOOP, INCLUDES TRAFFIC CONTROL.
15) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
16) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
17) SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS. TEST FIBER CABLE AFTER INSTALLATION AND REPORT RESULTS TO THE ENGINEER.
18) ALL DEPTHS.
19) INCLUDES MOUNTING HARDWARE, BONDING/GROUNDING.
20) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO DIGGING HOLE, PLACING HANDHOLE, TERMINATING CONDUIT, RESTORING SURFACE TO TDOT STANDARDS, TRAFFIC CONTROL AND SETUP.
21) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO DIGGING HOLE, PLACING HANDHOLE, TERMINATING CONDUIT, RESTORING SURFACE TO TDOT STANDARDS, TRAFFIC CONTROL AND SETUP.
22) INCLUDES DIGGING UP CABLE, MOVING CABLE, RESETTING PED, BONDING AND GROUNDING, PEST CONTROL, GRAVEL BACKFILL, OTHER SURFACE RESTORATION.
23) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO BACKFILL PER SPECIFICATIONS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SET UP AND TRAFFIC CONTROL.
24) 3M MODULES 4000-G/TR REQUIRED FOR PIC CABLE, 4000-D/TR REQUIRED FOR PAPER CABLE. SEE BRIGHTSPEED'S/CENTURYLINK'S SPECS.
25) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SPACERS, COUPLINGS, BENDS, OPENING TRENCH, BACKFILL PER SPECS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SETUP, TRAFFIC CONTROL.
26) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SPACERS, COUPLINGS, BENDS, OPENING TRENCH, BACKFILL PER SPECS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SETUP, TRAFFIC CONTROL.
27) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO BACKFILL PER SPECIFICATIONS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SET UP AND TRAFFIC CONTROL.
28) ALL DUCT FORMATIONS. TDOT TO DETERMINE TYPE OF CONCRETE.
29) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, RODDING DUCT AND PULLING IN INNERDUCT.
30) ALL DEPTHS.
31) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO REMOVING HANDHOLE, RESTORING SURFACE TO TDOT STANDARDS, TRAFFIC CONTROL AND SETUP.
32) ALL DEPTHS.
33) INCLUDES ALL CABLES, DROPS, GUYS, STRAND, FUSE LINKS, TERMINALS.
34) INCLUDES TRAFFIC CONTROL, LABOR AND EQUIPMENT.
35) INCLUDES GROUTING, RETIRED FACILITIES REMAIN THE PROPERTY OF THE UTILITY.
36) CUT RODS OFF BELOW FINISHED GRADE.
37) INCLUDES GUY GUARD.

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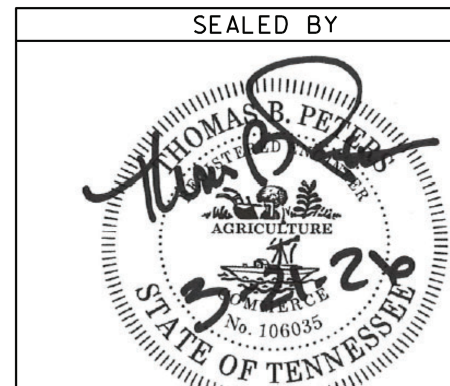


BRIGHTSPEED

FOOTNOTE DESCRIPTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-3

GENERAL NOTES TO CONTRACTOR

1) EXCEPT FOR EROSION SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.

2) ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORD ITEM.

3) THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS. (NOTE TO UTILITY: THE UTILITY RELOCATION PLANS SHALL PROVIDE TO THE CONTRACTOR THE UTILITY'S REQUIREMENTS FOR TEMPORARY TIE-INS (INCLUDING NECESSARY TESTING AND STERILIZATION TO ACCOMPLISH THE TIE-IN) AND ALSO ANY RESTRICTIONS FOR TAKING LINES OUT OF SERVICE. IF A TEMPORARY LINE WILL BE A MAJOR ITEM OF WORK, A SPECIFIC TEMPORIZATION PLAN AND ITEM MUST BE INCLUDED IN THE UTILITY'S PLANS.)

4) IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.

5) FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.

6) WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APPROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.

7) DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.

8) ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFERDAMS. ALTERNATIVELY, BASED ON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING BORE TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.

9) EXISTING TELECOMMUNICATION LINES ARE TO STAY IN SERVICE UNTIL NEW TELECOMMUNICATION LINES HAVE BEEN TESTED BY THE CONTRACTOR AND APPROVED BY BRIGHTSPEED.

10) ALL NEW CONDUIT AND SWEEPS SHALL BE SCHEDULE 40 PVC.

11) CONTRACTOR IS TO EXPOSE AND VERIFY ELEVATION OF EXISTING UNDERGROUND UTILITIES (WHERE NEW TELECOMMUNICATION LINES CROSS) PRIOR TO INSTALLATION OF NEW TELECOMMUNICATION LINES TO DETERMINE POSSIBLE CONFLICTS AND ALLOW TELECOMMUNICATION LINES TO BE INSTALLED WITHOUT EXCESSIVE CHANGES IN ALIGNMENT.

12) A 12 INCH MINIMUM VERTICAL SEPARATION AND A 24 INCH MINIMUM HORIZONTAL SEPARATION IS REQUIRED FROM OTHER UTILITIES.

13) ALL MATERIAL AND SUPPLIER OF MATERIAL MUST BE PRE-APPROVED BY BRIGHTSPEED PRIOR TO ORDERING.

14) ALL CONDUIT WILL BE PLACED WITH A MINIMUM 36 INCH COVER. IF 36 INCH OF COVER IS NOT POSSIBLE, THEN CONDUIT WILL BE ENCASED IN CONCRETE UNTIL 36 INCH COVER IS REACHED. ANY DEPTH LESS THAN 24 INCH COVER WILL NOT BE ACCEPTED.

15) LARGE FILL AREAS AND CUT AREAS WILL NEED TO BE COMPLETED BEFORE TELECOMMUNICATION LINES CAN BE INSTALLED.

16) ALL SWEEPS OR BENDS, SPACERS, AND PLUGGING OF DUCTS, PERMENANT OR TEMPORARY WILL, BE INCLUDED IN CONDUIT FOOTAGE.

17) THE SEALING OF DUCTS AROUND THE CABLE AT RISER POINTS WILL BE INCLUDED IN THE PLACEMENT OF THE CABLE.

18) ALL UNSPLICED COPPER CABLE PAIRS WILL BE CLEARED IN MODULES.

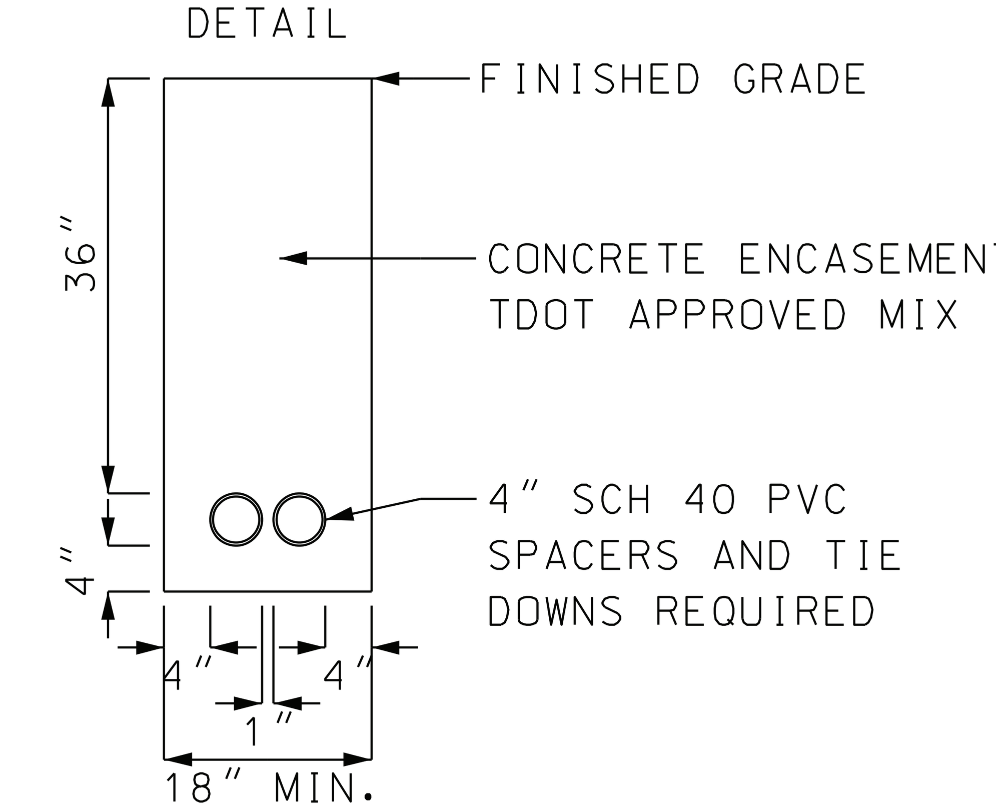
19) FIBER OPTIC MAINTENANCE LOOPS WILL BE PLACED IN HANDHOLES VERTICLE AND STRAPPED TO THE RACKING.

20) AFTER CUTOVER TO NEW FACILITIES, RETIRE OLD UNDERGROUND CONDUIT AND CABLES IN PLACE. NO GROUT REQUIRED.

LEGEND

●	**BRIGHTSPEED POLE**
○	**POLE BY OTHERS**
▷——	**ANCHOR & GUY**
▬	**HANDHOLE**
— — — — —	**UNDERGROUND TELEPHONE CABLE**
————————	**AERIAL TELEPHONE CABLE**
—·—·—·—·—	**AERIAL COPPER DROP**

TYPICAL TRENCH DETAIL



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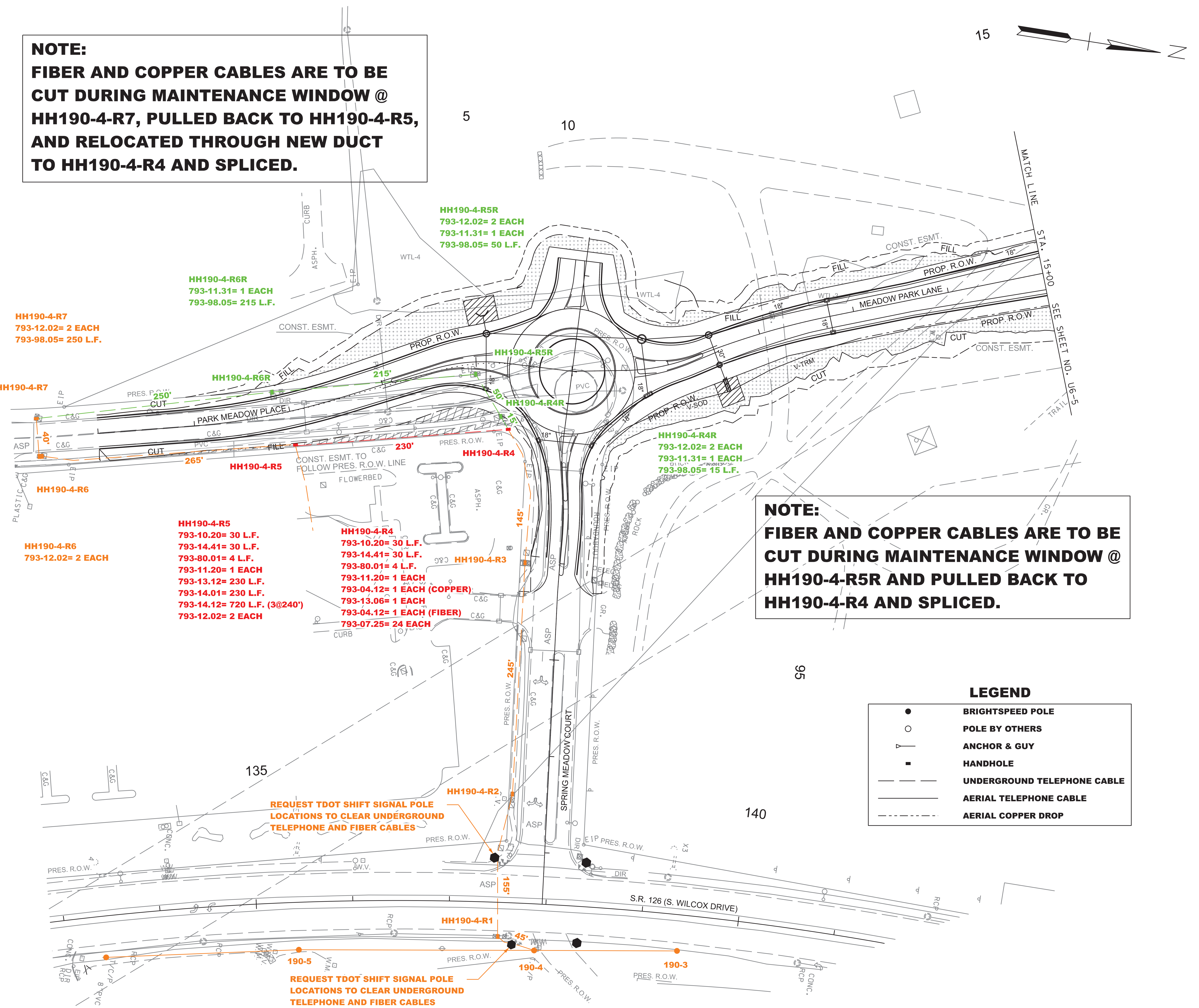
BRIGHTSPEED

GENERAL NOTES & LEGEND

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-4

NOTE:
FIBER AND COPPER CABLES ARE TO BE CUT DURING MAINTENANCE WINDOW @ HH190-4-R7, PULLED BACK TO HH190-4-R5, AND RELOCATED THROUGH NEW DUCT TO HH190-4-R4 AND SPLICED.



NOTE:
FIBER AND COPPER CABLES ARE TO BE CUT DURING MAINTENANCE WINDOW @ HH190-4-R5R AND PULLED BACK TO HH190-4-R4 AND SPLICED.

LEGEND

Symbol	Description
●	BRIGHTSPEED POLE
○	POLE BY OTHERS
▷—	ANCHOR & GUY
▪	HANDHOLE
— — —	UNDERGROUND TELEPHONE CABLE
———	AERIAL TELEPHONE CABLE
—·—·—	AERIAL COPPER DROP

SEALED BY

BRIGHTSPEED

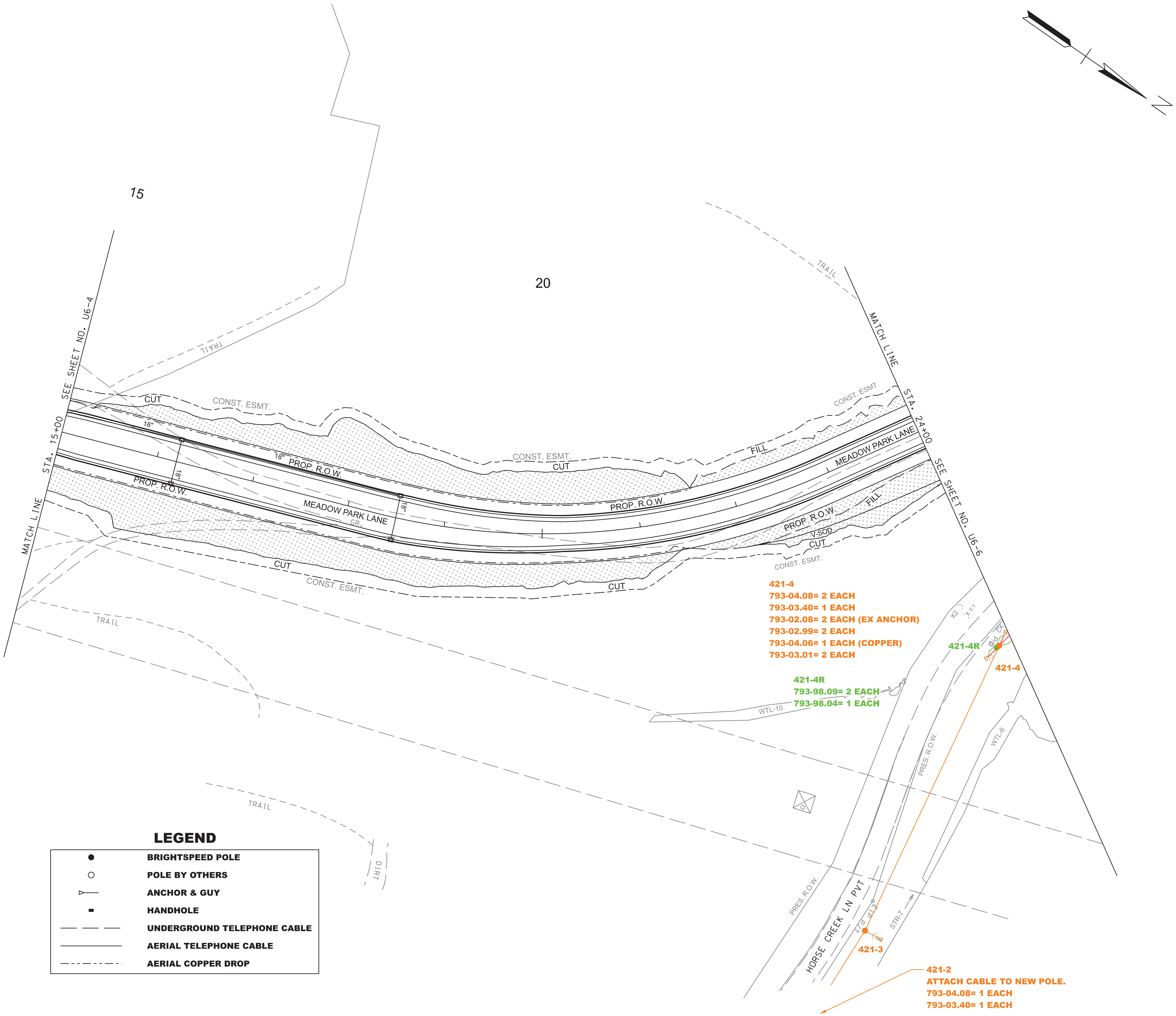
TELEPHONE RELOCATION

STA.10+00 TO STA.15+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-5



LEGEND

●	BRIGHTSPEED POLE
○	POLE BY OTHERS
▷—	ANCHOR & GUY
▬	HANDHOLE
— — —	UNDERGROUND TELEPHONE CABLE
———	AERIAL TELEPHONE CABLE
—·—·—	AERIAL COPPER DROP

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

SEALED BY

THOMAS B. PETERS
AGRICULTURE
COMMERCE
No. 106035
STATE OF TENNESSEE
3-24-26

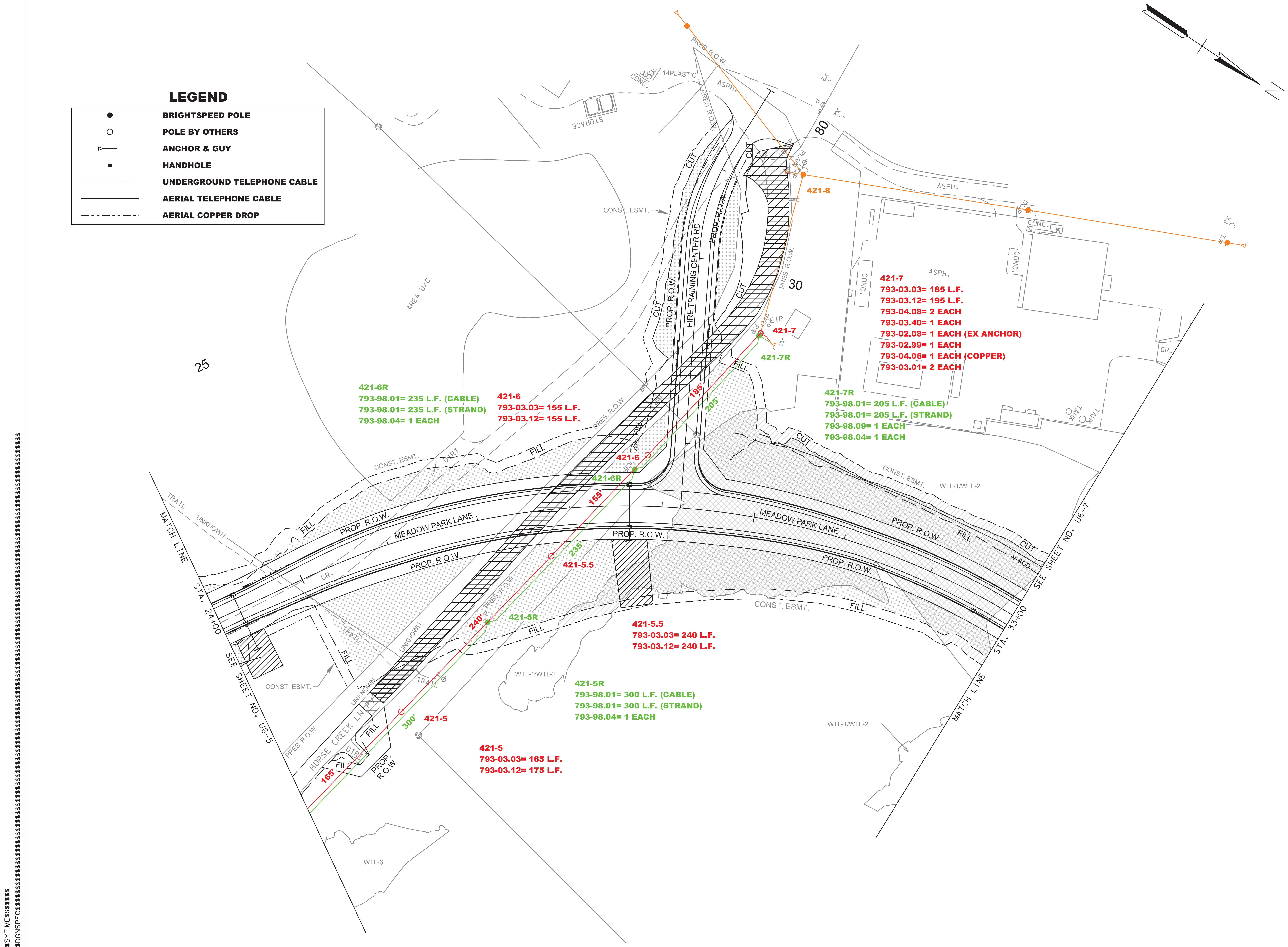
BRIGHTSPEED

TELEPHONE RELOCATION

STA.15+00 TO STA.24+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-6



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AGRICULTURE
COMMERCE
No. 106035
STATE OF TENNESSEE
3-24-26

BRIGHTSPEED

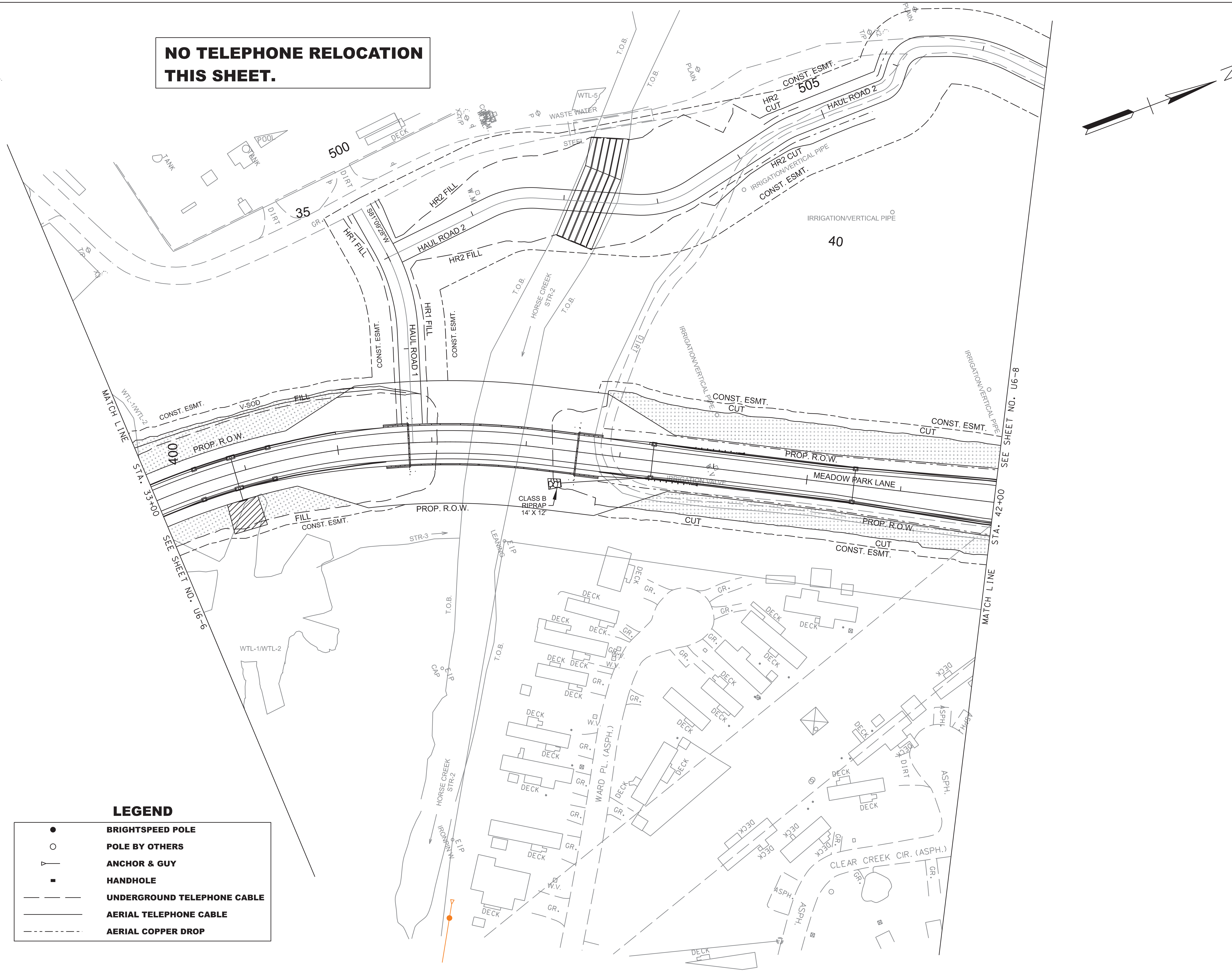
TELEPHONE RELOCATION

STA.24+00 TO STA.33+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-7

NO TELEPHONE RELOCATION THIS SHEET.



LEGEND

Symbol	Description
●	**BRIGHTSPEED POLE**
○	**POLE BY OTHERS**
▷——	**ANCHOR & GUY**
▬	**HANDHOLE**
— — —	**UNDERGROUND TELEPHONE CABLE**
———	**AERIAL TELEPHONE CABLE**
-·-·-·	**AERIAL COPPER DROP**

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$

SEALED BY

THOMAS B. PETERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 106035
STATE OF TENNESSEE
3-27-26

BRIGHTSPEED

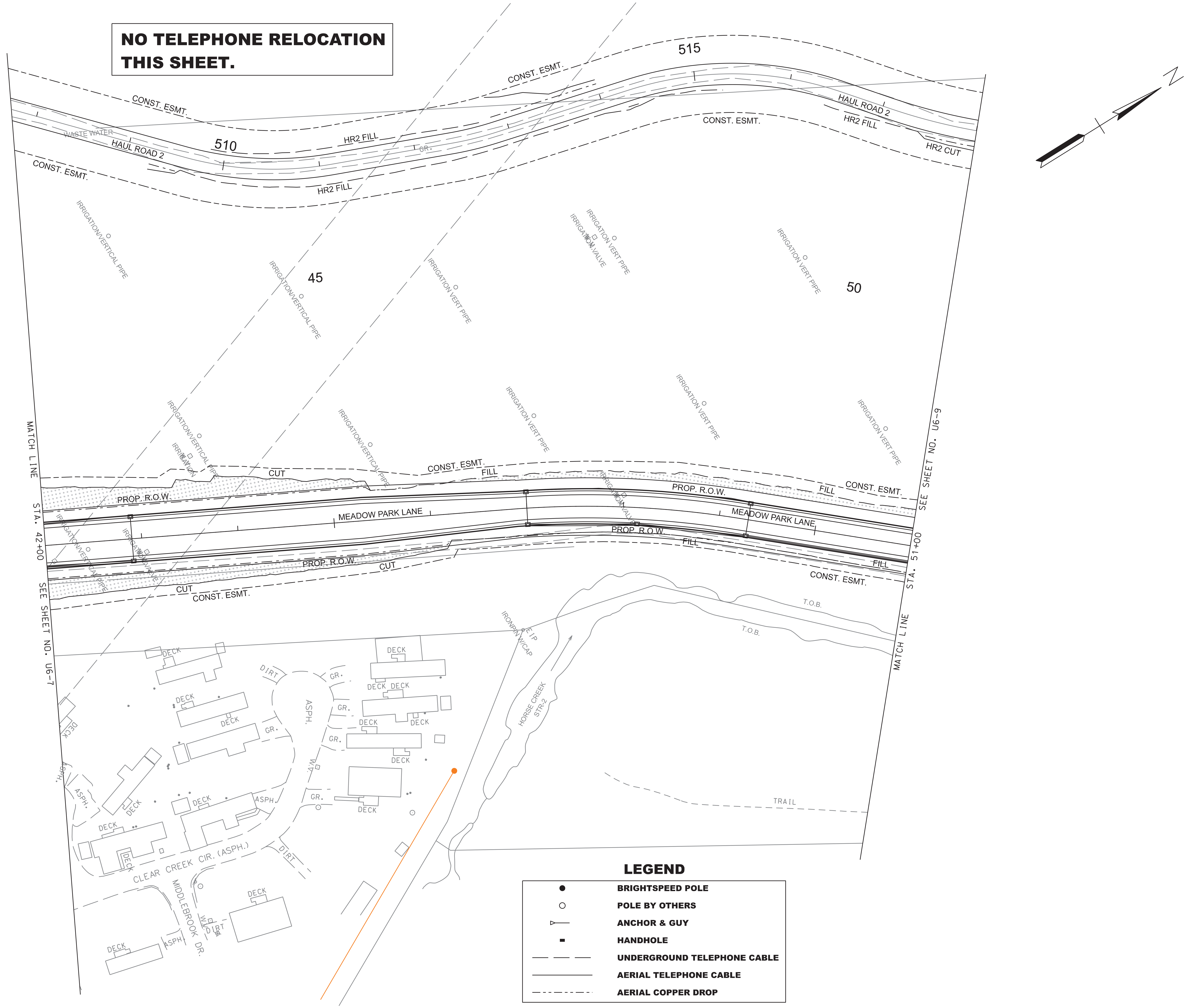
TELEPHONE RELOCATION

STA.33+00 TO STA.42+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-8

NO TELEPHONE RELOCATION THIS SHEET.



LEGEND

- ● BRIGHTSPEED POLE
- ○ POLE BY OTHERS
- ANCHOR & GUY
- HANDHOLE
- UNDERGROUND TELEPHONE CABLE
- AERIAL TELEPHONE CABLE
- AERIAL COPPER DROP

SEALED BY

THOMAS B. PETERS — STATE OF TENNESSEE — AGRICULTURE — COMMERCE — No. 106035 — 3-24-26

BRIGHTSPEED

TELEPHONE RELOCATION

STA.42+00 TO STA.51+00

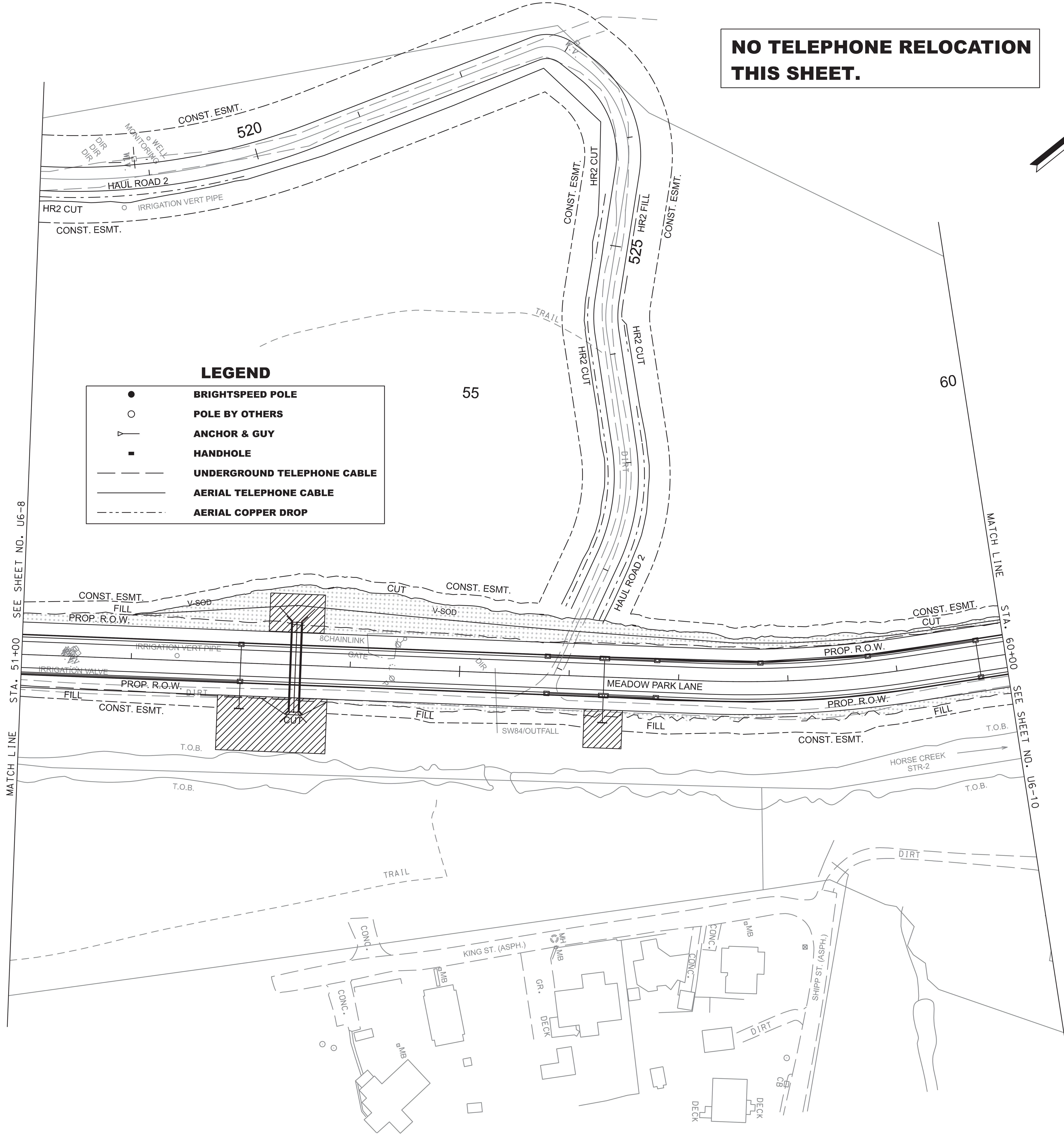
SCALE: 1"=50'

$$$$SYTIME$$$$$$

$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-9

NO TELEPHONE RELOCATION THIS SHEET.



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COMMERCE
No. 106035
STATE OF TENNESSEE
3-27-26

BRIGHTSPEED

TELEPHONE RELOCATION

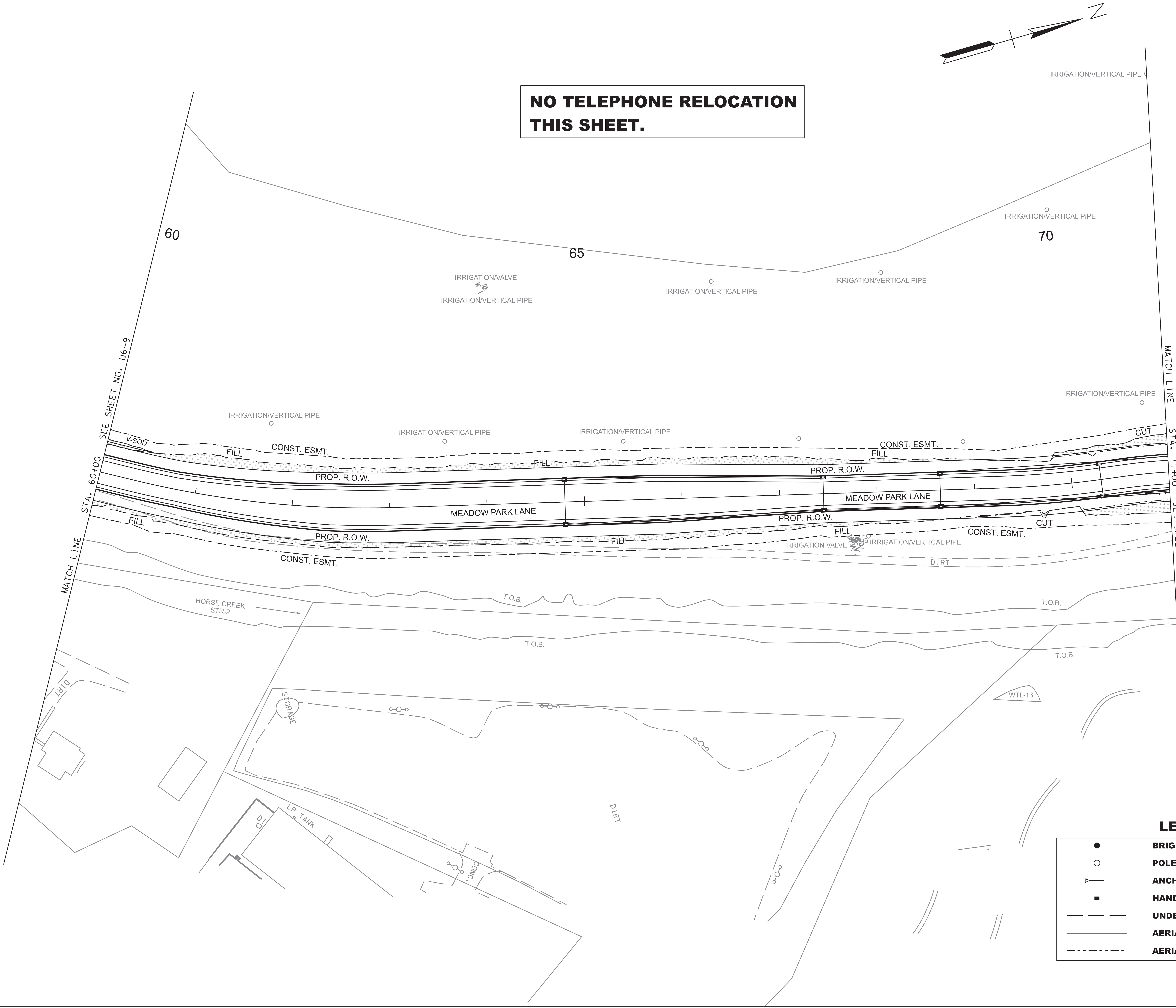
STA.51+00 TO STA.60+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-10

NO TELEPHONE RELOCATION THIS SHEET.



LEGEND

●	BRIGHTSPEED POLE
○	POLE BY OTHERS
▷—	ANCHOR & GUY
▪	HANDHOLE
— — —	UNDERGROUND TELEPHONE CABLE
———	AERIAL TELEPHONE CABLE
—·—·—	AERIAL COPPER DROP

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BRIGHTSPEED

TELEPHONE RELOCATION

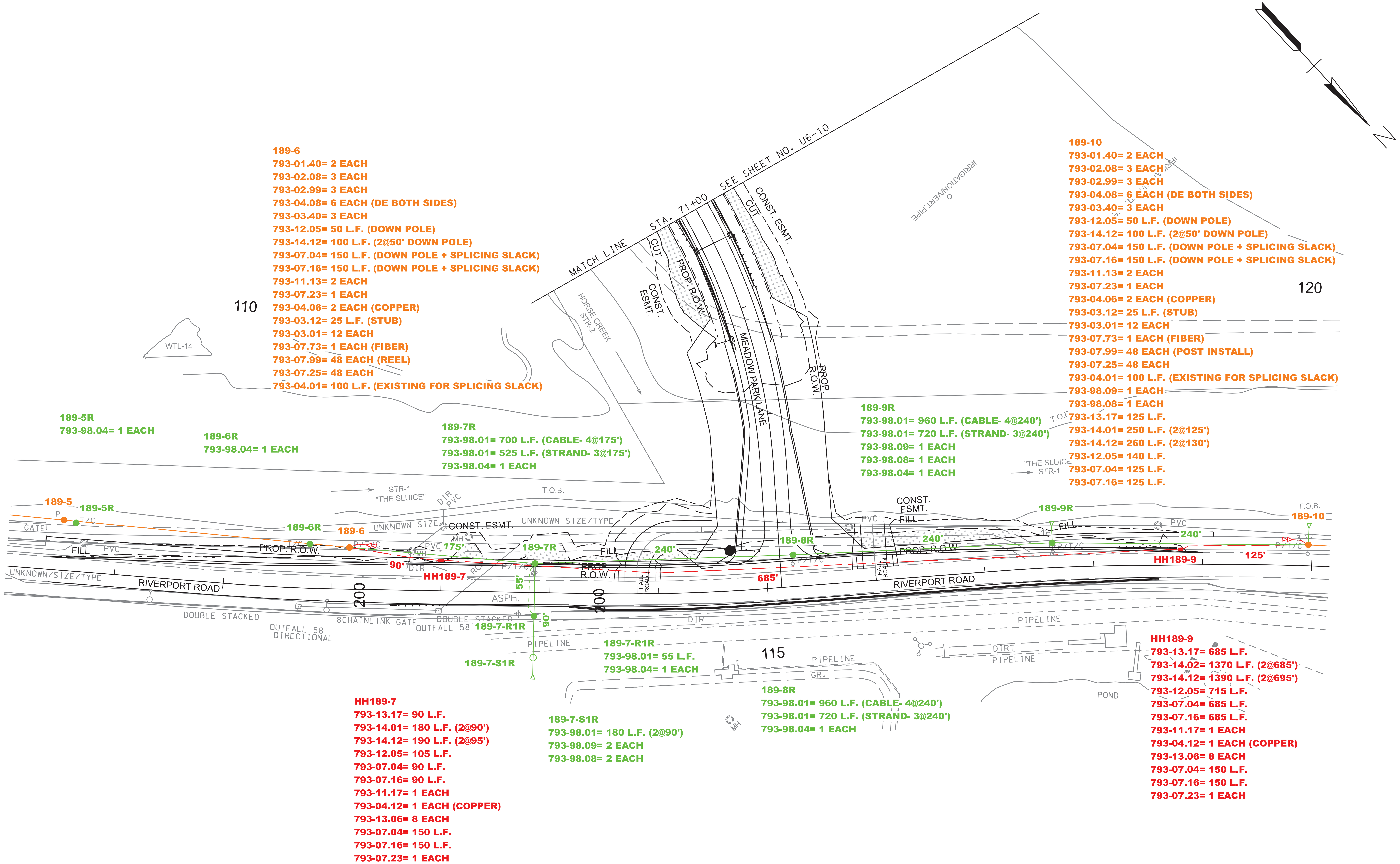
STA.60+00 TO STA.71+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$

$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	82956-3594-04	U6-11



LEGEND

Symbol	Description
●	BRIGHTSPEED POLE
○	POLE BY OTHERS
▷—	ANCHOR & GUY
▬	HANDHOLE
— — —	UNDERGROUND TELEPHONE CABLE
———	AERIAL TELEPHONE CABLE
— - — -	AERIAL COPPER DROP

NOTE:
WATERLINE RELOCATION MUST BE COMPLETE BEFORE THE TELEPHONE RELOCATION CAN BEGIN.

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COMMERCE
No. 106035
STATE OF TENNESSEE
3-24-26

BRIGHTSPEED

TELEPHONE RELOCATION

STA.71+00 TO STA.74+59.91

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$