

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Joseph S. Badyrka
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CONSOR NORTH AMERICA INC.
101 WESTPARK DRIVE
SUITE 300
BRENTWOOD, TN 37027
JOSEPH S. BADYRKA, P.E. NO. 116290

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 TRAFFIC DESIGN DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F
DETAIL SHEETS	2G
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A, 3B - 3B1
PRESENT LAYOUT(S)	4 – 8
RIGHT-OF-WAY DETAILS	4A – 8A
PROPOSED LAYOUT(S)	4B – 8B
PROPOSED PROFILE(S)	4C – 8C,
	4C1-8C1
RAMP PROFILE(S)	9
DRAINAGE MAP(S)	10 – 11
CULVERT SECTION(S)	12 – 13
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	14, 15, 16-18D
SIGNING AND PAVEMENT MARKING PLANS	19 - 23
ROADWAY CROSS SECTIONS	24 – 72
TRAFFIC CONTROL PLANS	T1 – T5E

YEAR	PROJECT NO.	SHEET NO.
2026	31I024-S3-002	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

5/29/2026 9:41:56 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1329530.00_WORKSET\DGN\31I024-SHT-SIGNATURES.DGN

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

GRUNDY COUNTY

I-24 INTERCHANGE AT SR-50, LM 0.56 (EXIT 127) (GFT)

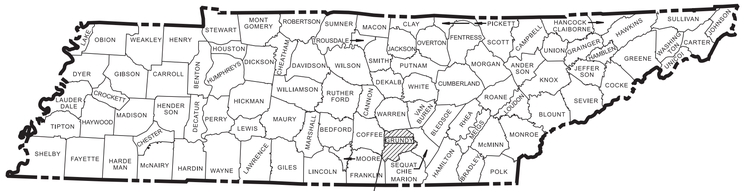
PS&E

(GRADE, DRAIN, PAVE, SIGN, MARKING, LIGHTING)

STATE HIGHWAY NO. N/A F.A.H.S. NO. I-24

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.		
STATE PROJ. NO.	31I024-S3-002	



BEGIN PROJECT NO. 31I024-S3-002 CONST.

STA. 103+43.05 LM 127.052

N 354099.0819 E 1995877.6879

END PROJECT NO. 31I024-S3-002 CONST.

STA. 157+28.28 LM 128.075

N 349805.5955 E 1999124.5929



SCALE: 1" = 5280'

NO EXCLUSIONS

N

R.O.W. LENGTH	0.000 MILES
ROADWAY LENGTH	0.903 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	1.019 MILES

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

I-24

TRAFFIC DATA	
ADT (2028)	44610
ADT (2048)	54430
DHV (2048)	4898
D	50 - 50
T (ADT)	9 %
T (DHV)	6 %
V	70 MPH

SR-50

TRAFFIC DATA	
ADT (2028)	7140
ADT (2048)	10600
DHV (2048)	1590
D	75 - 25
T (ADT)	15 %
T (DHV)	10 %
V	50 MPH

RAMP D

SURVEY 12-05-23	TRAFFIC DATA	
UPDATE 01-31-24	ADT (2028)	1830
	ADT (2048)	2340
	DHV (2048)	211
	D	100 - 0
	T (ADT)	9 %
	T (DHV)	6 %
	V	50 MPH

COORDINATES ARE NAD/83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING GEOID 18 MODEL.

SEALED BY

JOSEPH S BADYRKA REGISTERED ENGINEER AGRICULTURE COMMERCE No. 0116290 STATE OF TENNESSEE 6/1/2026

APPROVED: _____ SHANE HESTER, CHIEF ENGINEER

DATE: _____

APPROVED: _____ WILL REID, COMMISSIONER

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.

TDOT PROJECT MANAGER: ERIN WOODSON, P.E.

DESIGNED BY : CONSOR NORTH AMERICA, INC.

DESIGNER : JOSEPH S. BADYRKA, P.E. CHECKED BY MEGAN WILDES, P.E.

P.E. NO. 31I024-S1-003 (PE-D)

PIN NO. 132953.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	1A
PS&E	2026	31I024-S3-002	1A

ROADWAY INDEX

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TRAFFIC CONTROL PLANS	T1 – T5E
GEOTECHNICAL PLANS	G-1
LIGHTING PLANS	L-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

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		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
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-TS-4	10-01-24	DESIGN STANDARDS FOR ARTERIAL AND FREEWAY RAMPS (1, 2 AND 3 LANE)
RD11-TS-5	06-28-19	DESIGN STANDARDS FOR FREEWAYS WITH DEPRESSED MEDIAN (4 AND 6 LANE)
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS

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

DWG.	REV.	DESCRIPTION
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	03-01-23	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PE-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-30A	06-28-19	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-48A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-48B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION

10-106.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

DWG.	REV.	DESCRIPTION
RP-J-1	05-01-20	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	05-01-20	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	05-01-20	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	05-01-20	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	05-01-20	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	05-01-20	3/4" AND 1 3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	05-01-20	3/4" AND 1 3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	05-01-20	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	05-01-20	DOWEL ASSEMBLY DEVICES
RP-J-18	01-28-22	DOWEL ASSEMBLY DEVICES
RP-J-19	05-01-20	DOWEL ASSEMBLY DEVICES
RP-R-1	04-21-25	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS
S-F-1	03-01-23	HIGH VISIBILITY FENCE

10-108.00 SAFETY DESIGN AND GUARDRAILS

DWG.	REV.	DESCRIPTION
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
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-GR1-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK
S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
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
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR

10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL

DWG.	REV.	DESCRIPTION
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-37	06-10-14	SEDIMENT TUBE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

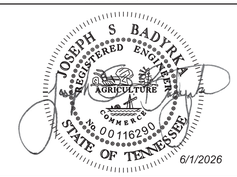
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STANDARD TRAFFIC DESIGN DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	1A1
PS&E	2026	31I024-S3-002	1A1

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-16	07-30-25	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS
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
10-204.00	**DESIGN - TRAFFIC CONTROL**	
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	01-24-25	MARKING DETAIL FOR FREEWAYS
T-M-6	01-24-25	MARKING DETAIL FOR EXPRESSWAY AND FREEWAY INTERCHANGES
T-M-7	01-24-25	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-24-25	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9A	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9B	07-22-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-60	03-26-25	FREEWAY RESURFACING SIGNING PROCEDURES
T-WZ-61	03-26-25	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
T-WZ-63	03-26-25	WORK ZONE IN THE VICINITY OF AN ENTRANCE RAMP
T-WZ-64	03-26-25	WORK ZONE IN THE VICINITY OF AN EXIT RAMP
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

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STANDARD
TRAFFIC
DESIGN
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2
PS&E	2026	31I024-S3-002	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 31I024-S3-002
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(10)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
(13)	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	331
(2)(3)(10)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	3255
(16)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	900
(10)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	3839
(10)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1000
(16)	203-05	UNDERCUTTING	C.Y.	435
	203-06	WATER	MG	31
(10)	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	868
(4)	209-05	SEDIMENT REMOVAL	C.Y.	170
(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	3200
(4)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	3060
(4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(4)	209-08.09	FILTER SOCK CHECK DAM	EACH	9
(4)(7)	209-09.01	SANDBAGS	BAG	4100
(4)	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	1
(4)(7)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	220
(4)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2
(24)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	8437
(4)(5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	64
(16)	303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	111
	307-01.22	ASP. CONC. MIX(PG76-22) (BPMB-HM) GR. A-S	TON	1008
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	1045
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	654
	313-03	TREATED PERMEABLE BASE	S.Y.	208
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	10
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	10133
	411-03.10	ACS MIX(PG76-22) GRADING D	TON	1300
	415-01.02	COLD PLANING OF BITUMINOUS PAVEMENT	S.Y.	13,385
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	187
	502-04.01	SAWING CONCRETE PAVEMENT (FULL-DEPTH)	L.F.	176
	604-10.51	SCARIFYING	S.Y.	1090
(6)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	18
(6)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	13
(6)	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	39
(6)	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
(6)	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
(6)	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
(6)	611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
(4)(7)	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	250
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	1
(10)	705-06.02	W BEAM GR (TYPE 2) MASH TL-3 (LONG POST)	L.F.	612.5
(10)	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH	1
(10)	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	1
(10)	706-01	GUARDRAIL REMOVED	L.F.	276
(4)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	3650
(14)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	260
(8)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	25
(9)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	217
	712-01	TRAFFIC CONTROL	LS	1
	712-02.10	PORTABLE BARRIER RAIL(MASH TL-3)	L.F.	7250
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	6
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	306
	712-04.50	BARRIER RAIL DELINEATOR	EACH	363
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	24
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	306
	712-06	SIGNS (CONSTRUCTION)	S.F.	615
(17)	712-06.16	SIGNS (CONSTRUCTION) (REDUCED SPEED WARNINGS)	EACH	4
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	144

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 31I024-S3-002
(12)	712-08.03	ARROW BOARD (TYPE C)	EACH	6
(12)	712-08.11	QUEUE PROTECTION TRUCK	HOUR	150
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	2080
	712-09.08	REMOVABLE PAVEMENT MARKING (6" LINE)	L.F.	2105
(1)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	L.S.	1
(10)	713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	EACH	7
(12)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
(25)	713-16.20	SIGNS (R3-2)	EACH	1
(25)	713-16.21	SIGNS (R3-1)	EACH	1
(21)	713-16.90	RESET GROUND MOUNTED SIGN	EACH	4
(22)	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	240
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	66
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	54
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	2
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	858
	716-02.12	PLASTIC PAVMENET MARKING (8IN LINE)	L.M.	0.53
	716-04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	4
	716-08.30	HYDROBLAST REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	0.36
(15)	716-09.83	CONTRAST PAVEMENT MARKING 6"	L.F.	1200
(15)	716-09.90	CONTRAST PAVEMENT MARKING 6" DOTTED	L.F.	400
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6 IN LINE)	L.M.	2.2
	716-12.05	ENHANCED FLATLINE THERMO PVMT MARKING (6 IN DOTTED LINE)	L.F.	5307
	717-01	MOBILIZATION	LS	1
(4)(5)(14)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	670
(16)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	870
(4)(18)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1250
(4)(19)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	200
(4)(20)	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	26
(4)(11)	801-03	WATER (SEEDING & SODDING)	M.G.	135
(4)(20)(23)	803-01	SODDING (NEW SOD)	S.Y.	11090
(4)(20)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2900

FOOTNOTES

(1) INCLUDES REMOVAL OF 2 "YIELD" SIGNS AND 1 "DO NOT ENTER" SIGN ON SHEET 21.
(2) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(3) INCLUDES 43 C.Y. FOR INSTALLATION OF RIP-RAP APRONS.
(4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(5) TO BE USED FOR SEDIMENT FILTER BAG INSTALLATION.
(6) EXCAVATION AND BEDDING FOR DRAINAGE STRUCTURES AND PIPE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
(7) TO BE USED FOR SUSPENDED PIPE DIVERSION DURING CONSTRUCTION OF DRAINAGE STRUCTURE WITHIN WETLAND BOUNDARIES. SEE STD. DWG. EC-STR-33A FOR DETAILS.
(8) INCLUDES 8 TONS FOR RIP-RAP APRON AT EW-4.
(9) INCLUDES 145 TONS FOR RIP-RAP APRON AT EW-3.
(10) SEE SHEET 2F FOR DETAILS.
(11) TO BE USED FOR TEMPORARY AND FINAL STABILIZATION.
(12) TO BE USED AS DIRECTED BY THE ENGINEER.
(13) INCLUDES 37 SY FOR REMOVAL OF EXISTING CURB & GUTTER IN RAMP D RADIUS.
(14) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
(15) TO BE USED ON CONCRETE RAMP SEGMENTS.
(16) SEE G-02 FOR DETAILS.
(17) ITEM TO BE USED ONLY WHEN A REDUCED SPEED IS ESTABILISHED WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.
(18) INCLUDES 150 LF FOR TYPE 2 CULVERT PROTECTION.
(19) TO BE USED AS TEMPORARY SLOPE TREATMENT BETWEEN EPSC STAGES.
(20) TO BE USED AS FINAL STABILIZATION.
(21) INCLUDES ALL SIGNS LABELED "TO BE REMOVED AND RESET" ON SHEETS 21 AND 22.
(22) INCLUDES 52 MARKERS FOR WRONG WAY PAVEMENT ARROWS FOR EXIT RAMPS.
(23) INCLUDES 1683 S.Y. FOR SPECIAL DITCH FINAL STABILIZATION.
(24) INCLUDES 300 TONS FOR MAINTENANCE.
(25) PROPOSED SIGNS TO BE 24" X 24" IN SIZE.

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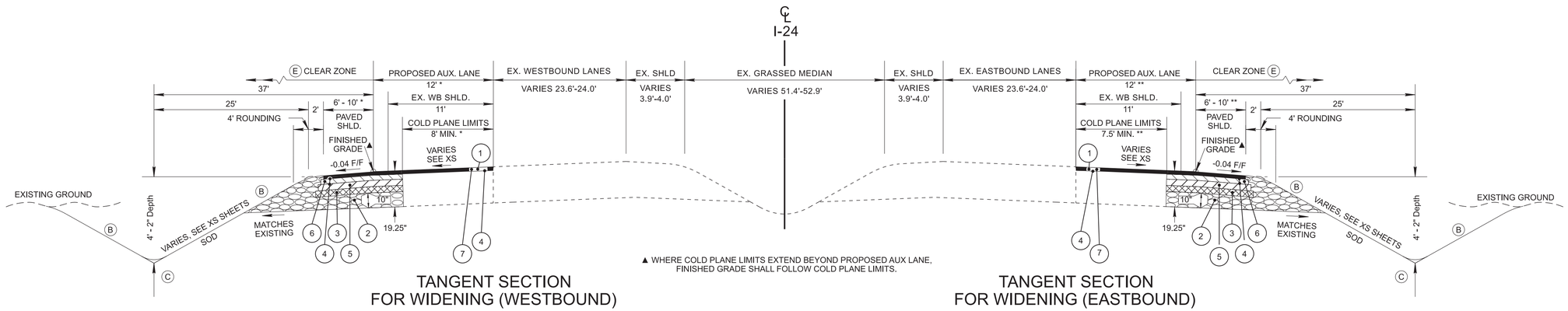
JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0 0 116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	2B
P.I.H.	2026	31I024-S3-002	2B
PS&E	2026	31I024-S3-002	2B



▲ WHERE COLD PLANE LIMITS EXTEND BEYOND PROPOSED AUX LANE, FINISHED GRADE SHALL FOLLOW COLD PLANE LIMITS.

TANGENT SECTION FOR WIDENING (WESTBOUND)

(BASED ON STD. DWG. RD11-TS-5)
WB ENTRANCE RAMP
FROM STA. 103+72.23 TO STA. 117+90.35
WB EXIT RAMP
FROM STA. 139+33.40 TO STA. 148+65.32

TANGENT SECTION FOR WIDENING (EASTBOUND)

(BASED ON STD. DWG. RD11-TS-5)
EB EXIT RAMP
FROM STA. 111+72.28 TO STA. 121+49.29
EB ENTRANCE RAMP
FROM STA. 142+95.23 TO STA. 156+98.56

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

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

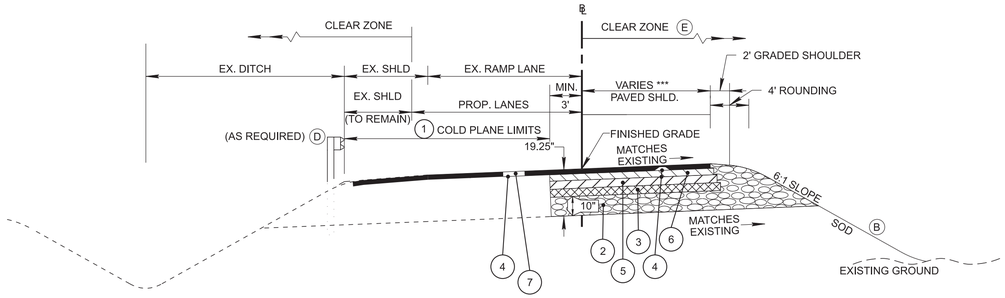
(C) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

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

(E) SEE STANDARD DRAWING S-CZ-1 FOR CLEAR ZONE CRITERIA. SEE THE "ROADSIDE DESIGN GUIDE", AASHTO, 2011, FOR FURTHER INFORMATION REGARDING CLEAR ZONES.

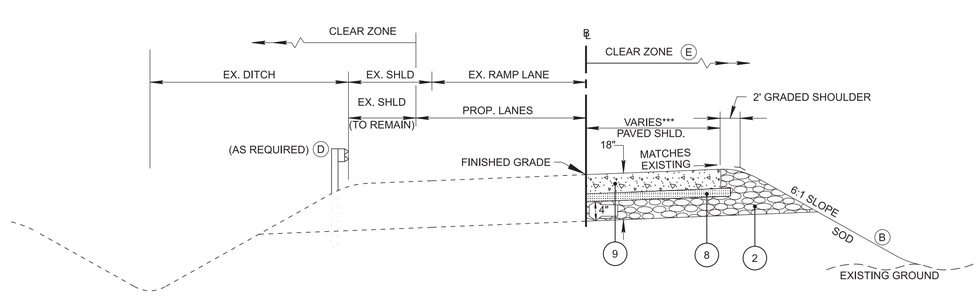
WESTBOUND TRAVELED WAY WIDTH TRANSITIONS*				
TRANSITION POINT	TRANSITION POINT STATIONS	WB TOTAL LANE WIDTH (FT)	WB SHLD WIDTH (FT)	RESURFACED WIDTH (FT)
1	103+72.23	0.00	12.00	8.00
2	106+42.81	12.00	12.00	8.00
3	109+72.90	12.00	12.00	8.00
4	117+90.35	12.00	12.00	19.20
5	139+33.40	19.62	8.00	22.00
6	139+56.79	18.68	8.00	20.50
7	141+72.30	14.00	10.00	8.00
8	142+71.35	12.00	12.00	8.00
9	146+11.66	12.00	12.00	8.00
10	148+65.32	1.90	12.00	8.94

EASTBOUND TRAVELED WAY WIDTH TRANSITIONS**				
TRANSITION POINT	TRANSITION POINT STATIONS	EB TOTAL LANE WIDTH (FT)	EB SHLD WIDTH (FT)	RESURFACED WIDTH (FT)
1	111+72.28	0.30	12.95	8.59
2	114+65.63	12.00	12.00	8.00
3	118+16.35	12.00	12.00	8.00
4	120+13.78	15.98	8.15	8.00
5	121+30.24	18.45	8.00	19.14
6	121+49.29	19.14	8.00	22.06
7	142+95.23	12.00	12.00	19.19
8	149+90.81	11.73	12.00	8.00
9	154+25.53	12.00	12.00	8.00
10	156+98.56	12.00	1.05	7.50



SUPERELEVATED SECTION FOR TWO LANE RAMP

(BASED ON STD. DWG. RD11-TS-4)
RAMP D
FROM STA. 500+41.19 TO STA. 501+45.79



SUPERELEVATED SECTION FOR TWO LANE RAMP

(BASED ON STD. DWG. RD11-TS-4)
RAMP D
FROM STA. 501+45.79 TO STA. 503+22.10

RAMP D WIDTH TRANSITIONS ***							
STATION	OUTSIDE SHOULDER		LANES		INSIDE SHOULDER		
	TOTAL WIDTH (FT)	RESURFACED WIDTH (FT)	TOTAL LANE WIDTH (FT)	NO. OF LANES	TOTAL WIDTH (FT)	RESURFACED WIDTH (FT)	WIDENED WIDTH (FT)
500+18.49	6.00	6.00	107.00	2.00	10.50	10.50	0.00
500+41.19	6.00	6.00	33.00	2.00	12.20	2.50	9.70
500+66.13	6.00	6.00	24.00	2.00	12.00	1.20	10.80
501+45.79	6.00	6.00	23.00	2.00	11.40	0.00	11.40
503+22.10	5.80	0.00	20.00	1.50	5.00	0.00	0.00
504+93.91	5.80	0.00	16.00	1.00	5.00	0.00	0.00

SEALED BY

JOSEPH S BADYRKA
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No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

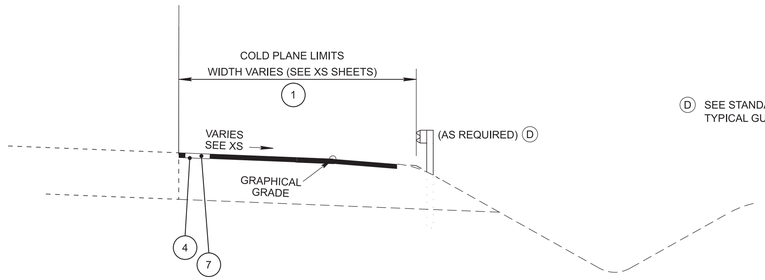
TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	2B1
P.I.H.	2026	31I024-S3-002	2B1
PS&E	2026	31I024-S3-002	2B1

PROPOSED PAVEMENT SCHEDULE

1. COLD PLANING @ 1.25" THICK (APPROX. 131.25LB/SY)
   415-01.02 COLD PLANING OF BITUMINOUS PAVEMENT (SY)
2. MINERAL AGGREGATE BASE
   303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"
3. BITUMINOUS PLANT MIX BASE (HOT MIX) PG76-22
   GRADING "A-S" @ 3.00" THICK (APPROX. 318 LB./S.Y.)
   307-01.22 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GR. A-S
4. TACK COAT
   403-01 SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD.
5. BITUMINOUS PLANT MIX BASE (HOT MIX) PG76-22
   GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.)
   307-03.01 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A
6. BITUMINOUS PLANT MIX BASE (HOT MIX) PG76-22
   GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.)
   307-03.08 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2
7. ASPHALTIC CONCRETE SURFACE (HOT MIX) PG76-22
   GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.)
   411-03.10 ACS MIX (PG76-22) GRADING "D"
8. TREATED PERMEABLE BASE @ 4.0" THICK
   313-03 TREATED PERMEABLE BASE
9. PORTLAND CEMENT CONCRETE @ 10.0" THICK
   501-01.03 PORTLAND CEMENT CONRETE PAVEMENT (PLAIN) 10"

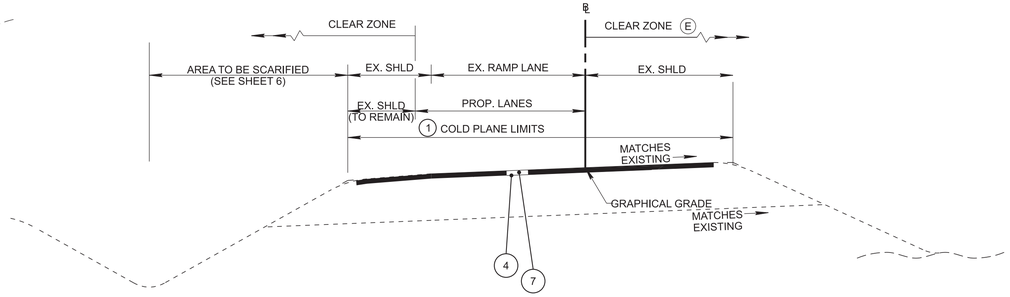


D SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

RESURFACING SECTIONS

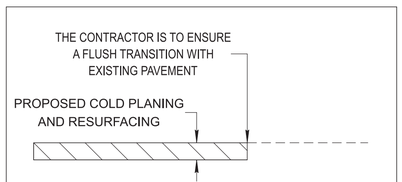
I-24				
BEGIN		END		SIDE
STA.	WIDTH (FT)	STA.	WIDTH (FT)	
103+43.05	10.75	103+72.23	11.00	LT
117+90.35	22.00	123+09.17	58.50	LT
137+96.71	47.50	139+33.40	25.60	LT
148+65.32	11.90	149+11.37	11.90	LT
111+65.73	11.00	111+72.28	11.00	RT
121+49.29	25.00	122+92.91	52.50	RT
138+09.65	44.00	142+95.23	22.00	RT
156+98.56	11.10	157+28.28	11.10	RT

SR-50 SHLD				
BEGIN		END		SIDE
STA.	WIDTH (FT)	STA.	WIDTH (FT)	
22+87.59	6.00	23+29.56	6.00	RT
23+29.56	6.00	23+68.36	0.00	RT



RAMP RESURFACING ONLY

RAMP D			
BEGIN		END	
STA.	WIDTH (FT)	STA.	WIDTH (FT)
500+18.49	107.00	500+28.79	81.00
500+28.79	81.00	501+45.79	29.00



PAVEMENT TIE-IN DETAIL

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2C
PS&E	2026	31I024-S3-002	2C

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 & 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.07.

(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. 803-01 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. 801-01.07, TEMPORARY SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

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.

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 PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(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).

(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.

MISCELLANEOUS

(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.

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING

(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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(17) BEFORE OPENING THE RAMP INTERSECTION TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.08 PER L.F. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

(19) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

PAVEMENT

PAVING

(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.

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 NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(3) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

(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.

(8) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(9) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(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.

(12) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

(13) AFTER THE PERMANENT SIGN LOCATIONS HAVE BEEN STAKED, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE CONSTRUCTION FIELD OFFICE. PAYMENT FOR LOCATION AND STAKING SHOULD BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS OF CONSTRUCTION. ANY RELOCATION REQUIRED, DUE TO THE SIGN NOT BEING INSTALLED IN THE CORRECT LOCATION, WILL BE DONE AT THE CONTRACTOR’S EXPENSE.

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

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JOSEPH S BADYRK
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2C1
PS&E	2026	31I024-S3-002	2C1

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.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

(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

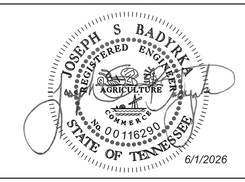
(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED APRIL 1, 2026 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(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.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2D
PS&E	2026	31I024-S3-002	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.

PAVEMENT

RESURFACING

(1) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:

A. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.

B. THE SURFACE SHALL BE SWEPT AND CLEANED OF ALL LOOSE MATERIALS.

C. THE MILLED SURFACE SHALL BE PAVED WITHIN 72 HOURS IF THE CURRENT ADT IS ≥ 70,000 OR WITHIN 96 HOURS IF THE CURRENT ADT IS < 70,000.

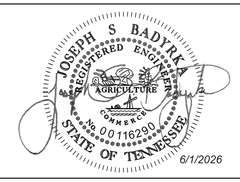
D. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.

E. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (W8-15 AND W8-15P) PLACED IN ADVANCE OF ANY MILLED AREAS

F. IF MILLED SURFACE BEGINS TO DETERIORATE, PAVING TO COVER UP DETERIORATING MILLED SURFACES SHOULD OCCUR AS DIRECTED BY THE ENGINEER DURING THE NEXT WORKING DAY. IF SEVERE DISTRESS OCCURS, IMMEDIATE RESPONSE WILL BE REQUIRED.

G. ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

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SPECIAL
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	2E
P.I.H.	2026	31I024-S3-002	2E
PS&E	2026	31I024-S3-002	2E

ENVIRONMENTAL NOTES

SUBSECTION 1 – ENVIRONMENTAL GENERAL 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.

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.

SUBSECTION 2 – ENVIRONMENTAL SPECIAL NOTES

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 PRE-CONSTRUCTION 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

(6) THE PROJECT CONSISTS OF THE CONSTRUCTION OF I-24 AT THE INTERSECTION OF S.R. 50 (F.A.H.S. NO. 64) IN GRUNDY COUNTY. THE PROJECT INCLUDES GRADING, DRAINAGE, PAVING, SIGNING, MARKING, AND LIGHTING TO EXTEND ACCELERATION AND DECELERATION LANES FOR THE ENTRANCE AND EXIT RAMPS FROM I-24 TO S.R. 50.

MITIGATION NOTES

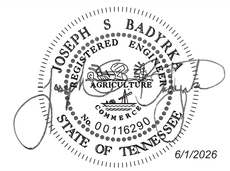
(1) FOR TEMPORARY IMPACTED WETLANDS, REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.

(2) ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE), RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION, AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.

(3) THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01.36 ONLY. TREE PLANTINGS ARE NOT REQUIRED.

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

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ENVIRONMENTAL NOTES

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C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSETDGN\31I024-SHT-ENVIRONMENTAL NOTES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2F
PS&E	2026	31I024-S3-002	2F

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	2082	5640	1770
RAMPS	173	126	148
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0	
INDEPENDENT DITCHES	0	0	
TEMPORARY CONSTRUCTION EXITS	0	0	
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	
TOPSOIL (EMB.)	750		
TOPSOIL (EXC.)	250		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

BALANCE SUMMARY		
SHRINK = 15 %	SWELL = 15 %	
EMB.		EXC.
5255	VS.	-1917
AVAILABLE	=	3338
BORROW MATERIAL	=	3839
BORROW ROCK	=	511

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	511	3255	5255	3255	2255	1917

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.
100880	250	750	1000	1868	1000	868	0

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL		TERMINAL ANCHORS		REMARKS
		LT	RT	FROM	TO	W BEAM GR (TYPE 2) MASH TL3 (LONG POST) 705-06.02 (L.F.)	GUARDRAIL REMOVED 706-01 (L.F.)	TYPE 13 MASH TL3 (9.375') 705-06.10 (EACH)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	
6B//7B	WB EXIT RAMP	X		501+89.57	138+68.26	606.00	276	1	1	
TOTALS						612.50	276	1	1	

PAVEMENT QUANTITIES

LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)						TYPE - PAY ITEM (S.Y.)		COLD PLANING
	MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)			TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)	TREATED PERMEABLE BASE	PORTLAND CEMENT CONCRETE PAVEMENT	BITUMINOUS PLANT MIX
	D	A-S	A	B-M2		D			S.Y.
	303-01	307-01.22	307-03.01	307-03.08	403-01	411-03.10	313-03	501-01.03	415-01.02
I-24	7729.0	987.0	1023.0	640.0	9.0	1255.0	0.0	0.0	12825.0
RAMP D	408.0	21.0	22.0	14.0	1.0	45.0	208.0	187.0	560.0
TOTALS	8137.0	1008.0	1045.0	654.0	10.0	1300.0	208.0	187.0	13385.0

CROSS DRAIN ENDWALLS

LOCATION \ SHEET NO.	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS "B" 709-05.08 (TON)	RIP-RAP CLASS "C" 709-05.09 (TON)	SAFETY ENDWALLS 24" IN. 4:1 611-07.58 (EACH)	30" IN. 4:1 611-07.61 (EACH)	48" IN. 3:1 611-07.69 (EACH)	48" IN. 4:1 611-07.70 (EACH)
4B/5B, 12	112+00.79	-107.35	75°	EW-1	Type "U"	D-PE-30A				1		
7B, 13	143+93.60	-95.33	89.9°	EW-2	Type "U"	D-PE-48A						1
7B, 13	143+93.80	103.34	89.9°	EW-3	Type "U"	D-PE-48A		217			1	
8B, 13	152+92.69	105.07	73°	EW-4	Type "U"	D-PE-24A	25		1			
TOTALS							25	217	1	1	1	1

REMOVAL OF STRUCTURES (ITEM NO. 202-01)

SHEET NO.	STATION	LOCATION	DESCRIPTION
4	111+97.58	95.20' LT	30" TYPE "U" ENDWALL
7	143+93.60	81.89' LT	48" TYPE "U" ENDWALL
7	143+93.60	71.49' LT	8 LF OF 48" CMP
7	143+93.80	94.55' RT	48" TYPE "U" ENDWALL
7	143+93.80	87.69' RT	8 LF OF 48" CMP
8	152+87.51	88.44' RT	24" TYPE "U" ENDWALL

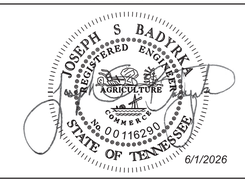
SIGN REMOVAL & RELOCATION (ITEM NO. 713-15.02)

NUMBER	SIGN (DESCRIPTION)	ALIGNMENT	EXISTING LOCATION (STA/OFF)	PROPOSED LOCATION (STA/OFF)	NOTES
1	EXIT 127	I-24	120+04.83 92.10' RT	111+70.35 77.09' RT	
2	EXIT 30MPH	I-24	120+90.97 84.65' RT	120+58.35 86.88' RT	
3	MM 127.4	I-24	120+92.09 81.43' RT	120+58.35 86.88' RT	
4	EXIT 127	I-24	142+78.81 90.97' LT	148+66.16 76.07' LT	
5	DO NOT ENTER	RAMP D	500+31.58 33.51' LT	500+37.78 46.92' LT	
6	STOP/ONE WAY	RAMP D	500+37.35 33.51' LT	500+37.78 46.92' LT	
7	WRONG WAY	RAMP D	502+49.12 14.75' RT	501+58.29 17.41' RT	

SPECIAL DITCHES

ROADWAY	STATION FROM	STATION TO	SIDE	DETAIL NO.	CONFIGURATION FORE (H/V)	CONFIGURATION BACK (H/V)	SODDING NEW SOD 803-01 (S.Y.)
I-24 WB	103+43.05	107+44.25	LT	1	VARIES	4:1	1077
I-24 EB	120+70.24	121+49.29	RT	2	VARIES	4:1	650
RAMP D	500+41.19	501+05.46	RT	3	VARIES	4:1	110
TOTALS							1837

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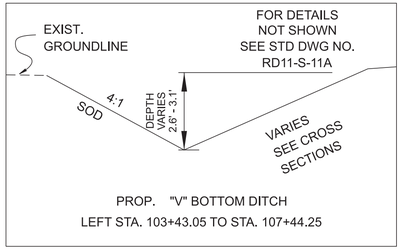
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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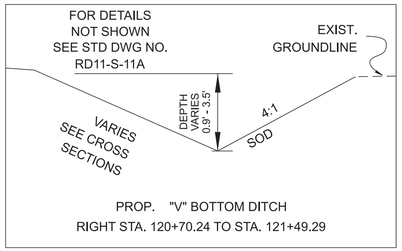
TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	2G
PS&E	2026	31I024-S3-002	2G

DETAIL NO. 1



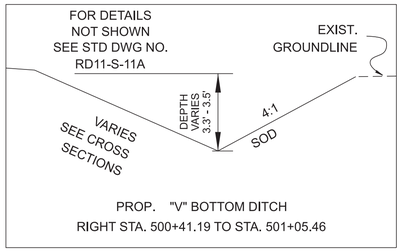
PROP. "V" BOTTOM DITCH
LEFT STA. 103+43.05 TO STA. 107+44.25

DETAIL NO. 2



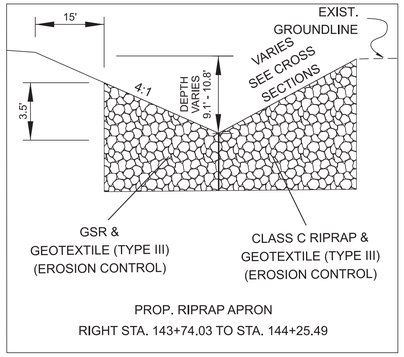
PROP. "V" BOTTOM DITCH
RIGHT STA. 120+70.24 TO STA. 121+49.29

DETAIL NO. 3



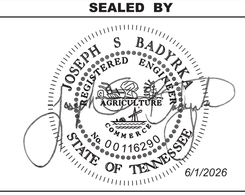
PROP. "V" BOTTOM DITCH
RIGHT STA. 500+41.19 TO STA. 501+05.46

DETAIL NO. 4



PROP. RIPRAP APRON
RIGHT STA. 143+74.03 TO STA. 144+25.49

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL
SHEETS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	3
P.I.H.	2026	31I024-S3-002	3
PS&E	2026	31I024-S3-002	3

RIGHT-OF-WAY

(1) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(2) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(3) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(5) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(6) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

(7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(10) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

(11) EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

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

CABLE:
BEN LOMAND
1335 MCARTHUR STREET
MANCHESTER, TN 37355
CONTACT: MR. RICHARD BOYD
OFFICE PHONE: (931) 450-1252
EMAIL: RICHARDBOYD@BENLOMAND.ORG

ELECTRIC:
TENNESSEE VALLEY AUTHORITY
1101 MARKET ST MR-4G
CHATANOOGA, TN 37402
CONTACT: MR. STEPHEN WILLIAMS
CELL PHONE: (862) 255-6272
EMAIL: SEWILLIAMS@TVA.GOV

TELEPHONE:
BEN LOMAND
1335 MCARTHUR STREET
MANCHESTER, TN 37355
CONTACT: MR. RICHARD BOYD
OFFICE PHONE: (931) 450-1252
EMAIL: RICHARDBOYD@BENLOMAND.ORG

ELECTRIC/FIBER:
TDOT TRAFFIC OPERATIONS/ITS OFFICE
505 DEADERICK STREET, 18TH FLOOR
NASHVILLE, TN 37243
CONTACT: MR. KHUZAIMA MAHDI
OFFICE PHONE: (615) 532-0421
EMAIL: KHUZAIMA.MAHDI@TN.GOV

ELECTRIC:
SEQUACHEE VALLEY ELECTRIC COOPERATIVE
512 SOUTH CEDAR AVENUE
SOUTH PITTSBURG, TN 37380
CONTACT: MR. LUCAS MARSH
OFFICE PHONE: (423) 837-8605
EMAIL: LMARSH@SVALLEYEC.COM

WATER:
HILLSVILLE UTILITY DISTRICT
117 N IRWIN ST
MANCHESTER TN, 37355
CONTACT: MR. DUSTIN GALLAGHER
OFFICE PHONE: (931) 728-1242
EMAIL: HILLSUD@YAHOO.COM

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0 0 116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
NOTES,
UTILITY NOTES
AND
UTILITY OWNERS

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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)				
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST	AIR RIGHTS	PERM RAILROAD
				BOOK	PAGE													
1	FRANK E. CLAY AND SHERRY CLAY	143	018.00	112	502		0.273	0.273					0.273					
2	GEORGE M. CLAY AND MARY E. CLAY REVOCABLE LIVING TRUST	143	017.00	W322	458	22.290		22.290				22.290						
3	FRANK E. CLAY AND SHERRY F. CLAY	085	004.00	112	502		14.663	14.663					14.663					
4	GEORGE M. CLAY AND MARY E. CLAY REV. LIVING TRUST-TRUSTEES	086	001.00	48	799	126.352		126.352				126.352						
5	LORRAINE CLARK HEIRS	086	037.00	100	405		40.442	40.442					40.442					
6	WILLIAM HENLEY AND WADE BROWN	086	035.00	1148	225	9.822		9.822				9.822						
7	WELTON INVESTMENTS % THE PARMAN CORP	086	038.00	113	306		0.938	0.938					0.938					
8	PELHAM WEL, INC	086	036.00	1113	159	1.069		1.069				1.069						
9	PELHAM I-24 LLC	086	039.00	1102	632		90.098	90.098					90.098					
10	R & R PARTNERSHIP	086	042.00	1148	603	2.652		2.652				2.652						
11	BRYAN DALE MCGREGOR AND BRYAN D. MCGREGOR FAMILY TRUST	086	043.01	1078	185	1.880		1.880				1.880						
12	PELHAM WEL, INC	086	043.02	1113	159	0.984		0.984				0.984						
13	BRYAN DALE MCGREGOR AND BRYAN D. MCGREGOR FAMILY TRUST	086	043.03	1078	185	1.982		1.982				1.982						
14	DAVID HILLIS AND PAULA HILLIS	086	043.00	122	191	82.841		82.841				82.841						
15	WILLIS FARMS INC	086	041.00	1084	864	24.680		24.680				24.680						
16	BETTY WHITE SLOAN AND BRUCE SLOAN	086	086.00	134	285	28.132		28.132				28.132						
16A	BETTY WHITE SLOAN AND BRUCE SLOAN	086	086	134	285		0.938	0.938					0.938					
	ACQUISITION TOTALS (ACRES)																	

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	3A
P.I.H.	2026	31I024-S3-002	3A
PS&E	2026	31I024-S3-002	3A

DISTURBED AREA

IN BETWEEN SLOPE LINES	7.283	(AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	2.318	(AC)
TOTAL DISTURBED AREA	9.601	(AC)
TOTAL PROJECT AREA	42.470	(AC)

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
No. 0116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISITION
TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	3B
P.I.H.	2026	31I024-S3-002	3B
PS&E	2026	31I024-S3-002	3B

BEGIN PROJECT NO. 31I024-S3-002 CONST.
STA. 103+43.05 LM 127.052
N 354099.0819 E 1995877.6879

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

N67°25'47"E

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

LIMIT OF CONST. SR-50
STA. 27+33.34
N 352444.2726' E 1998146.0797'

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813' E 1997745.5940'

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 103+43.05

40 FT. WIDE
ACCESS ESMT. -
BK 115, PG 378

PRES. R.O.W.

S37°41'13"E

S17°40'56"E

SINK HOLE

S37°40'54"E

WTL-1

WTL-2

WTL-3

I-24

N52°18'47"E

30 FT. WIDE INGRESS/
EGRESS EASEMENT
BK 1119, PG 855

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 111+65.73

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

RIGHT-OF-WAY ACQUIRED IN
MINUTE BOOK 11, PAGE 27
CIRCUIT COURT CLERK. ACCESS RIGHTS
GRANTED TO PROPERTY OWNER

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 136+12.95

LIMIT OF CONST. SR-50
STA. 11+98.46
N 351508.8850' E 1996929.2300'

SEE SHEET NO. 3B1

STA. 147+00

MATCH LINE

NOT TO SCALE

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM
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AND TIED TO THE TGRN. ALL ELEVATIONS
ARE REFERENCED TO THE NAVD 1988 WITH GEOID
18 MODEL, OBTAINED ON 08-18-2022.

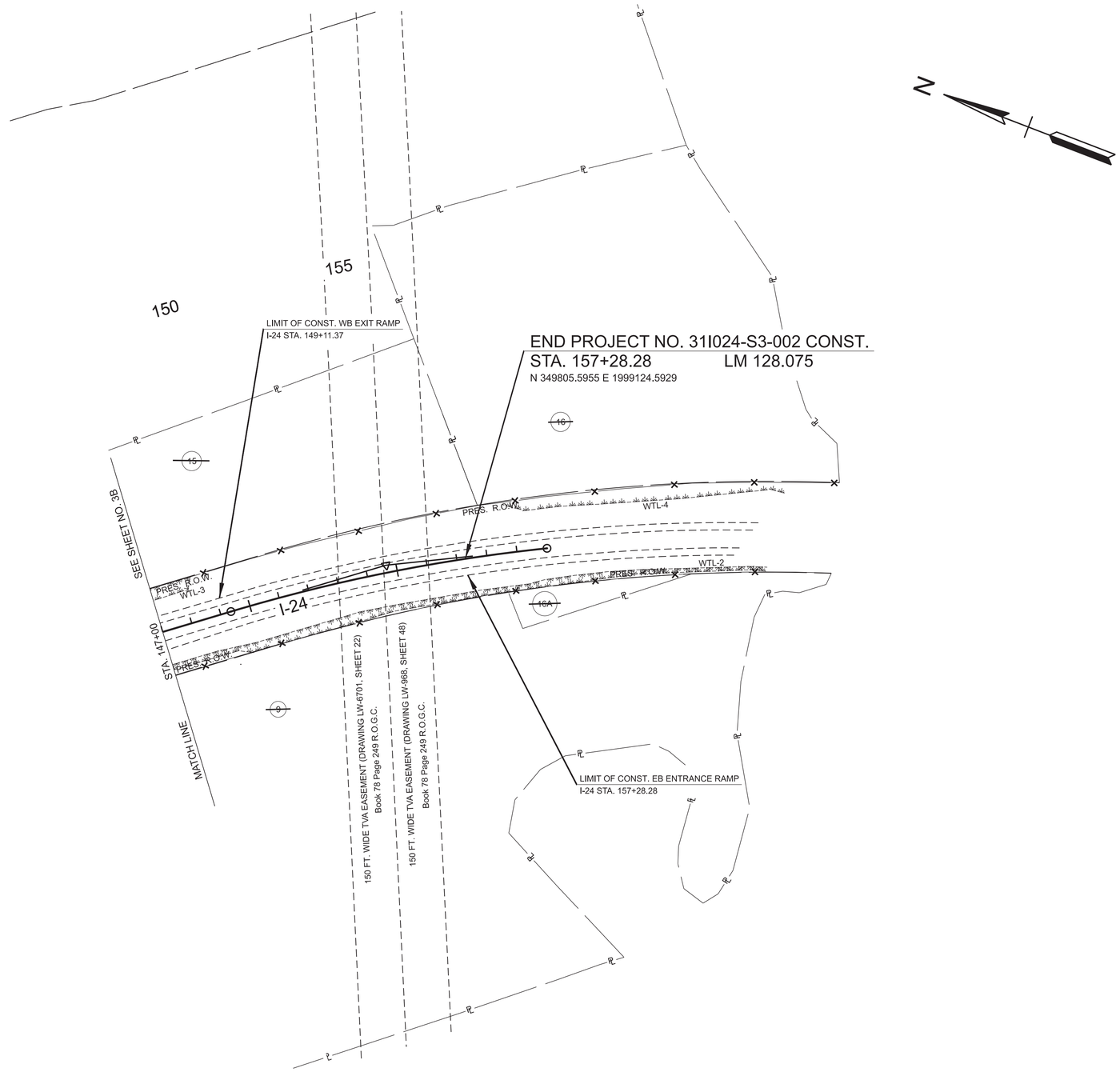
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 100+00.00 TO STA. 147+00.00
SCALE: 1" = 200'

6/1/2026 10:33:37 AM
C:\ProgramData\Bentley\OpenRoads Designer CE 10.12\Configuration\WorkSpaces\TDOT_Standards\WorkSets\I-24 Interchange at SR-50\dgn\31I024-SHT-Property Map.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	3B1
P.I.H.	2026	31I024-S3-002	3B1
PS&E	2026	31I024-S3-002	3B1



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 147+00.00 TO STA. 160+00.00
SCALE: 1" = 200'

6/1/2026 2:27:58 PM
C:\ProgramData\Bentley\OpenRoads Designer CE 10.12\Configuration\WorkSpaces\TDOT_Standards\WorkSets\132953.00_WorkSet\dgn\31I024-SHT-Property Map.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	4
P.I.H.	2026	31I024-S3-002	4
PS&E	2026	31I024-S3-002	4

BEGIN PROJECT NO. 31I024-S3-002 CONST.
STA. 103+43.05 LM 127.052
N 354099.0819 E 1995877.6879

2
~~GEORGE M. CLAY AND MARY E. CLAY REVOCABLE LIVING TRUST~~

4
~~GEORGE M. CLAY AND MARY E. CLAY REV. LIVING TRUST-TRUSTEES~~

100 105 110

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 103+43.05

101+62.11
-146.84'

NO RECORD OF EASEMENT FOUND

BILLBOARD

CATCH BASIN
TOP:995.80'
INV(SW):992.85'
BOTTOM:992.86'

INV:992.57'
AT CONCRETE ENDWALL
TO BE REMOVED

CONTROLLED ACCESS FENCE

WOODED

GRASS

103+72.23
-62.34'

CUT

105+44.44
-62.33'

FILL

FG LINE

S37°40'51"E
172.21'

S40°00'41"E
98.70'

S37°37'15"E
506.89'

S37°45'13"E
91.66'

ASPHALT
I-24(ASPH.)

INV: 992.63'
AT CONCRETE ENDWALL

CONC.

30" RCP TO REMAIN

11.9'
11.1'

I-24

S37°40'54"E

15" RCP TO REMAIN

52.6'
4'
4.1'
12'

S37°41'02"E
206.69'

MATCH LINE STA. 112+00 SEE SHEET NO. 5

RIPRAP/ROCKFILL

TRAV - S11
5/8" CAPPED REBAR

INV: 989.33'
AT CONCRETE ENDWALL

INV: 988.22'
AT CONCRETE ENDWALL

TRAV - S15
5/8" CAPPED REBAR

TRAV - S16
5/8" CAPPED REBAR

108+36.54
152.76'

CATCH BASIN
TOP:997.69'
INV(NE):990.92'
INV(SE):990.92'
DROP INLET:994.26'
BOTTOM:990.92'

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 111+65.73
111+72.28
63.00'

EIP

INV: 989.61'
AT CONCRETE ENDWALL
TO REMAIN

3
~~FRANK E. CLAY AND SHERRY F. CLAY~~

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S11	354072.8169	1995804.8058	999.460	XTRAV	5/8" CAPPED REBAR	103+19.29	73.74
S15	353805.5884	1996006.9789	999.840	XTRAV	5/8" CAPPED REBAR	106+54.36	77.08
S16	353478.9267	1996263.8929	1001.280	XTRAV	5/8" CAPPED REBAR	110+69.93	73.44

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JOSEPH S BADYRKA
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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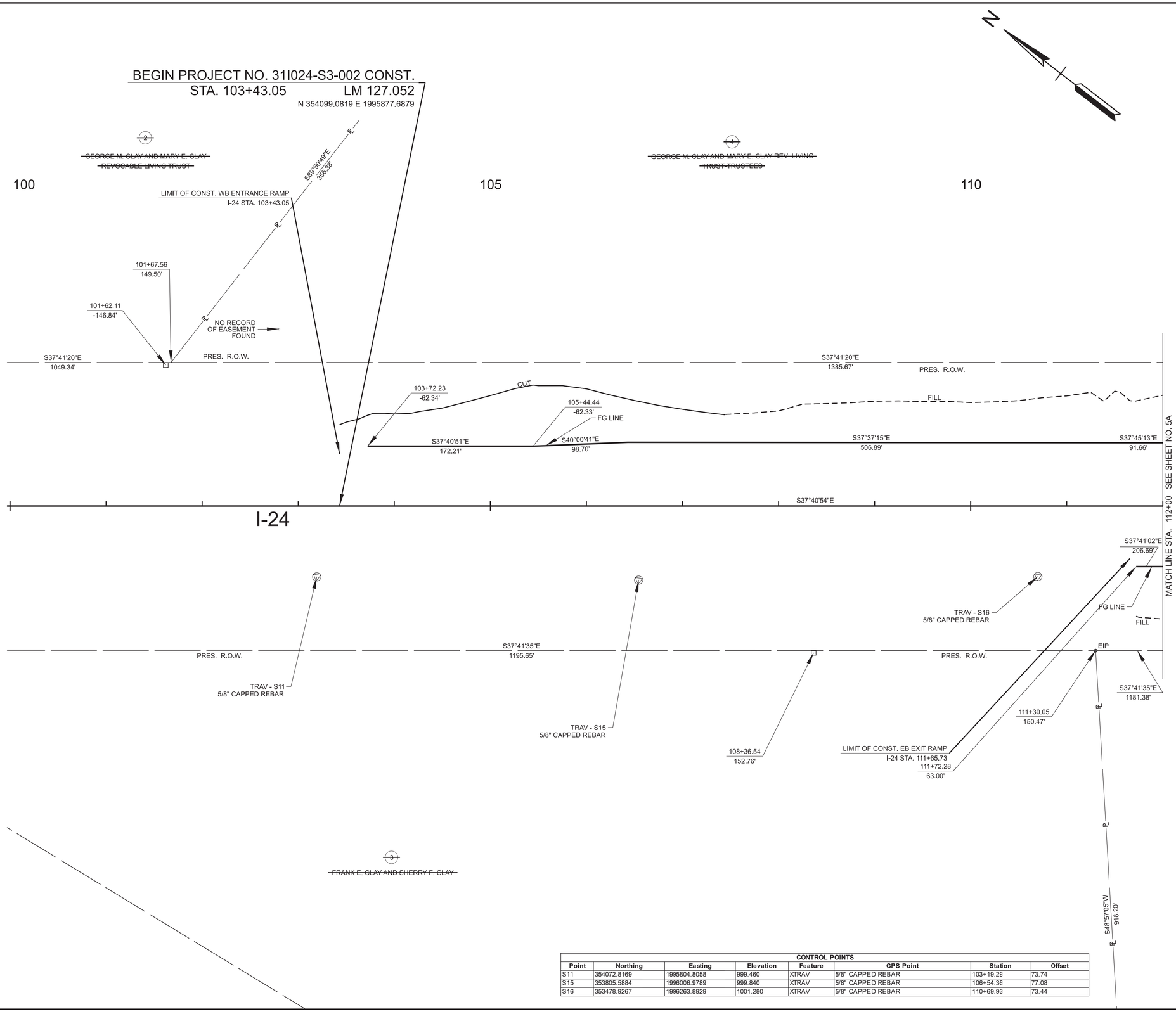
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 11:53:52 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1332953.00_WORKSET\DGN\31I024-SHT-PRESENT LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	4A
P.I.H.	2026	31I024-S3-002	4A
PS&E	2026	31I024-S3-002	4A



CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S11	354072.8169	1995804.8058	999.460	XTRAV	5/8" CAPPED REBAR	103+19.29	73.74
S15	353805.5884	1996006.9789	999.840	XTRAV	5/8" CAPPED REBAR	106+54.36	77.08
S16	353478.9267	1996263.8929	1001.280	XTRAV	5/8" CAPPED REBAR	110+69.93	73.44

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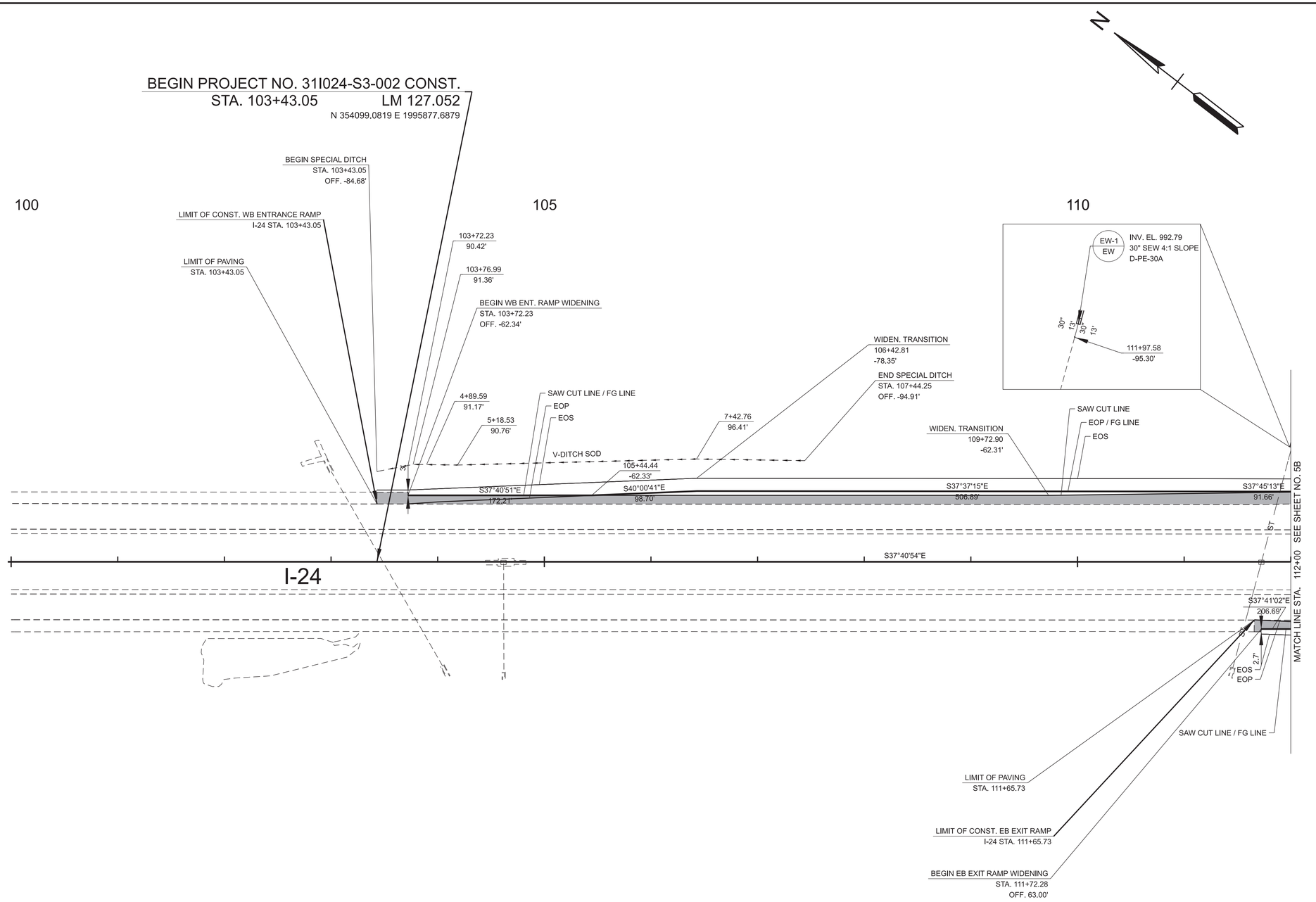
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 11:56:09 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	4B
P.I.H.	2026	31I024-S3-002	4B
PS&E	2026	31I024-S3-002	4B



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No. 00116290
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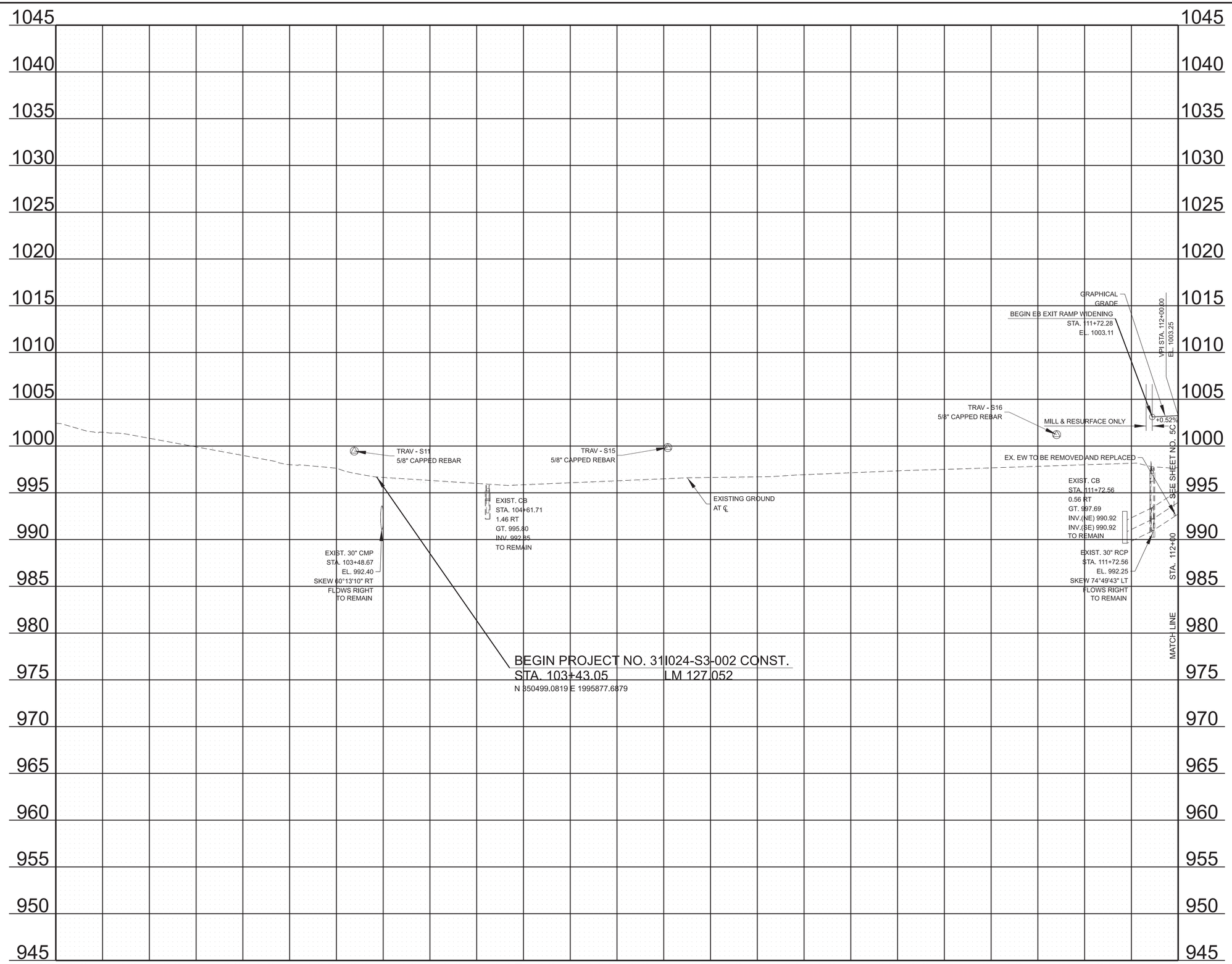
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 12:02:34 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	4C
P.I.H.	2026	31I024-S3-002	4C
PS&E	2026	31I024-S3-002	4C



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DEPARTMENT OF AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

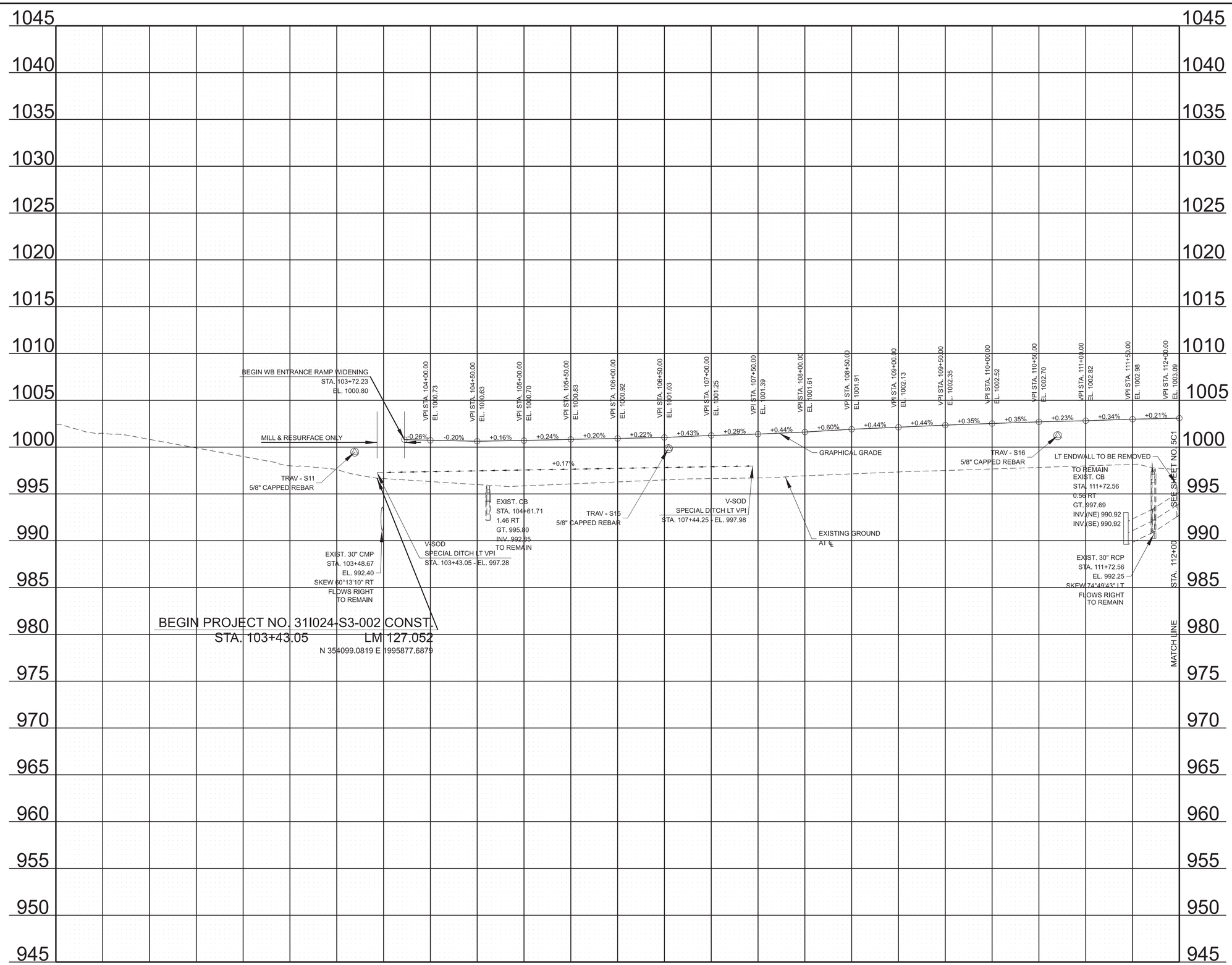
PROPOSED PROFILE
I-24 EB

STA. 100+00.00 TO STA. 112+00.00

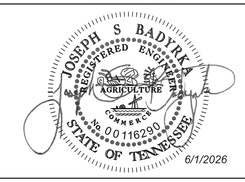
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	4C1
P.I.H.	2026	31I024-S3-002	4C1
PS&E	2026	31I024-S3-002	4C1



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

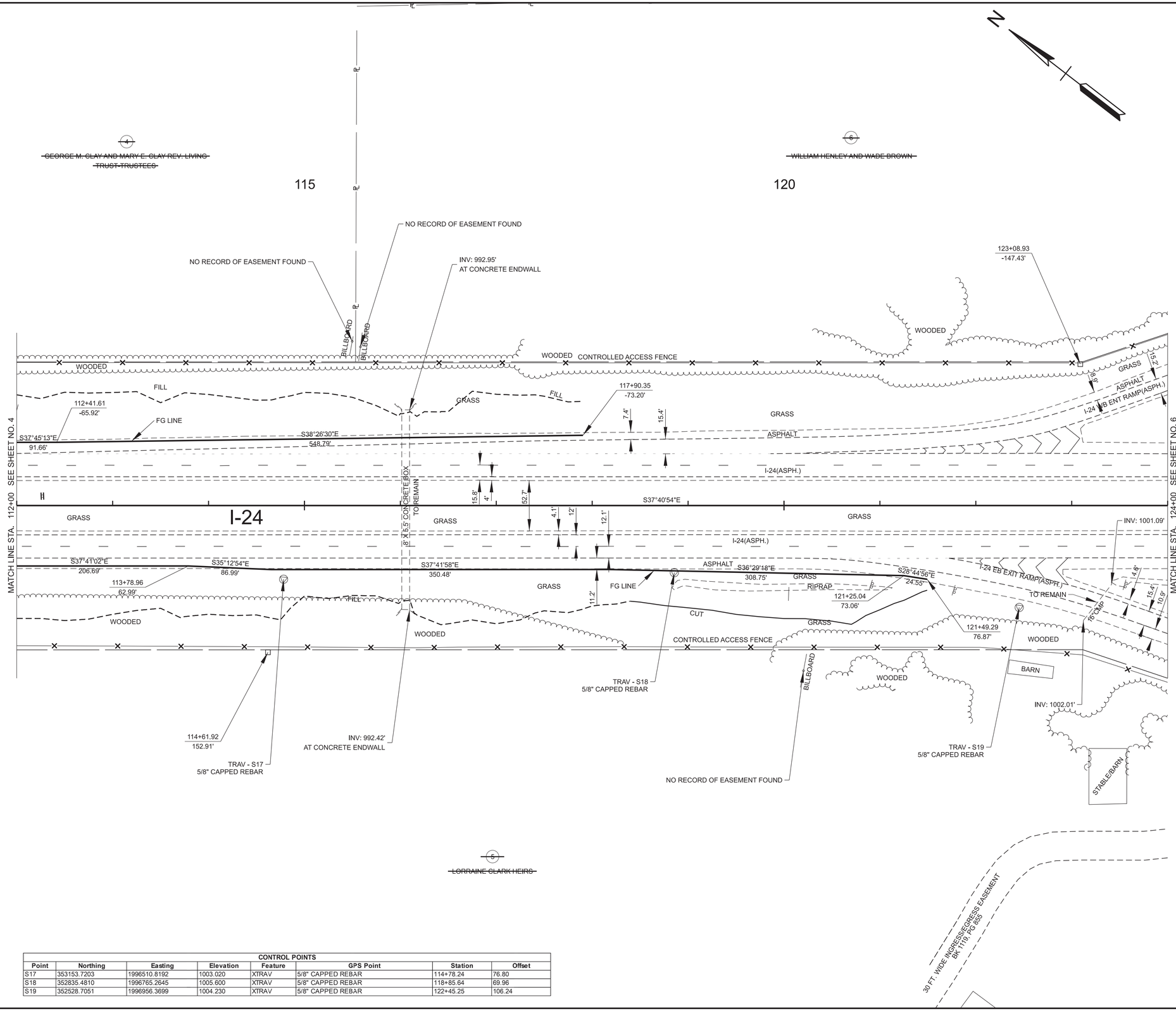
PROPOSED PROFILE
I-24 WB

STA. 100+00.00 TO STA. 112+00.00

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

6/1/2026 1:09:29 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	5
P.I.H.	2026	31I024-S3-002	5
PS&E	2026	31I024-S3-002	5



CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S17	353153.7203	1996510.8192	1003.020	XTRAV	5/8" CAPPED REBAR	114+78.24	76.80
S18	352835.4810	1996765.2645	1005.600	XTRAV	5/8" CAPPED REBAR	118+85.64	69.96
S19	352528.7051	1996956.3699	1004.230	XTRAV	5/8" CAPPED REBAR	122+45.25	106.24

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JOSEPH S BADYRA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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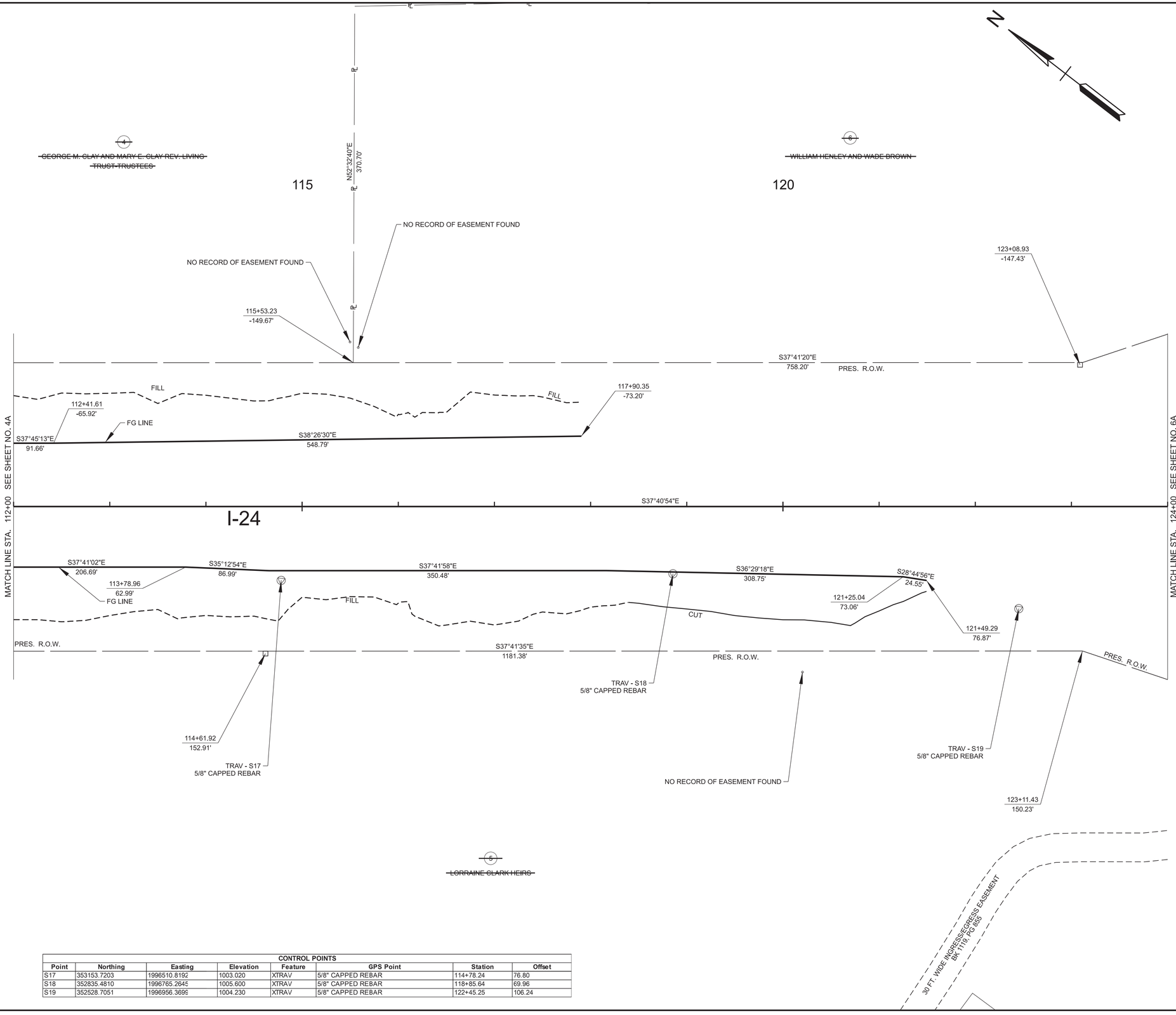
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

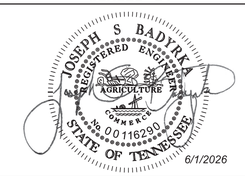
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	5A
P.I.H.	2026	31I024-S3-002	5A
PS&E	2026	31I024-S3-002	5A



CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S17	353153.7203	1996510.8192	1003.020	XTRAV	5/8" CAPPED REBAR	114+78.24	76.80
S18	352835.4810	1996765.2645	1005.600	XTRAV	5/8" CAPPED REBAR	118+85.64	69.96
S19	352528.7051	1996956.3699	1004.230	XTRAV	5/8" CAPPED REBAR	122+45.25	106.24

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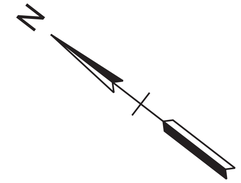
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

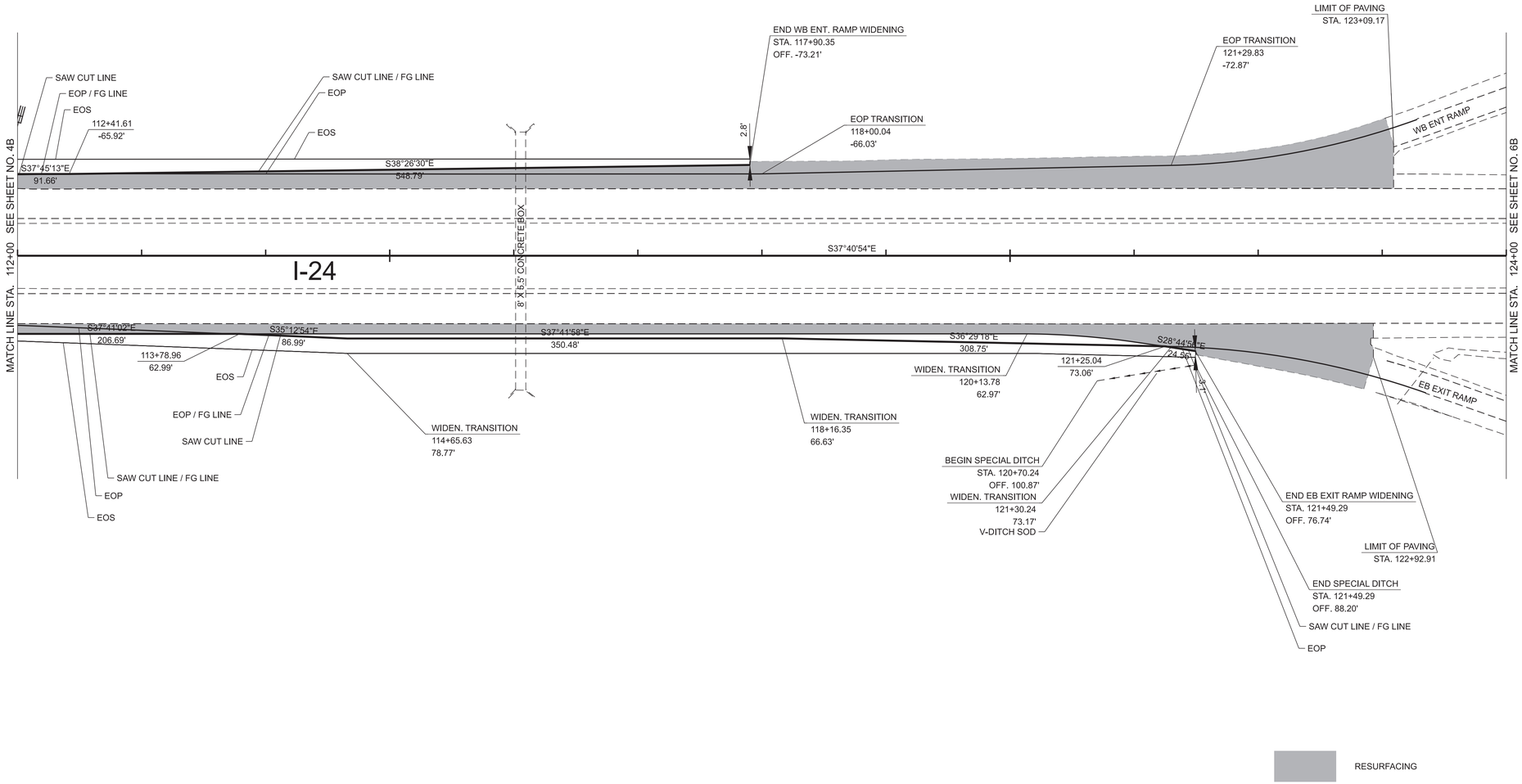
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	5B
P.I.H.	2026	31I024-S3-002	5B
PS&E	2026	31I024-S3-002	5B



115

120



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AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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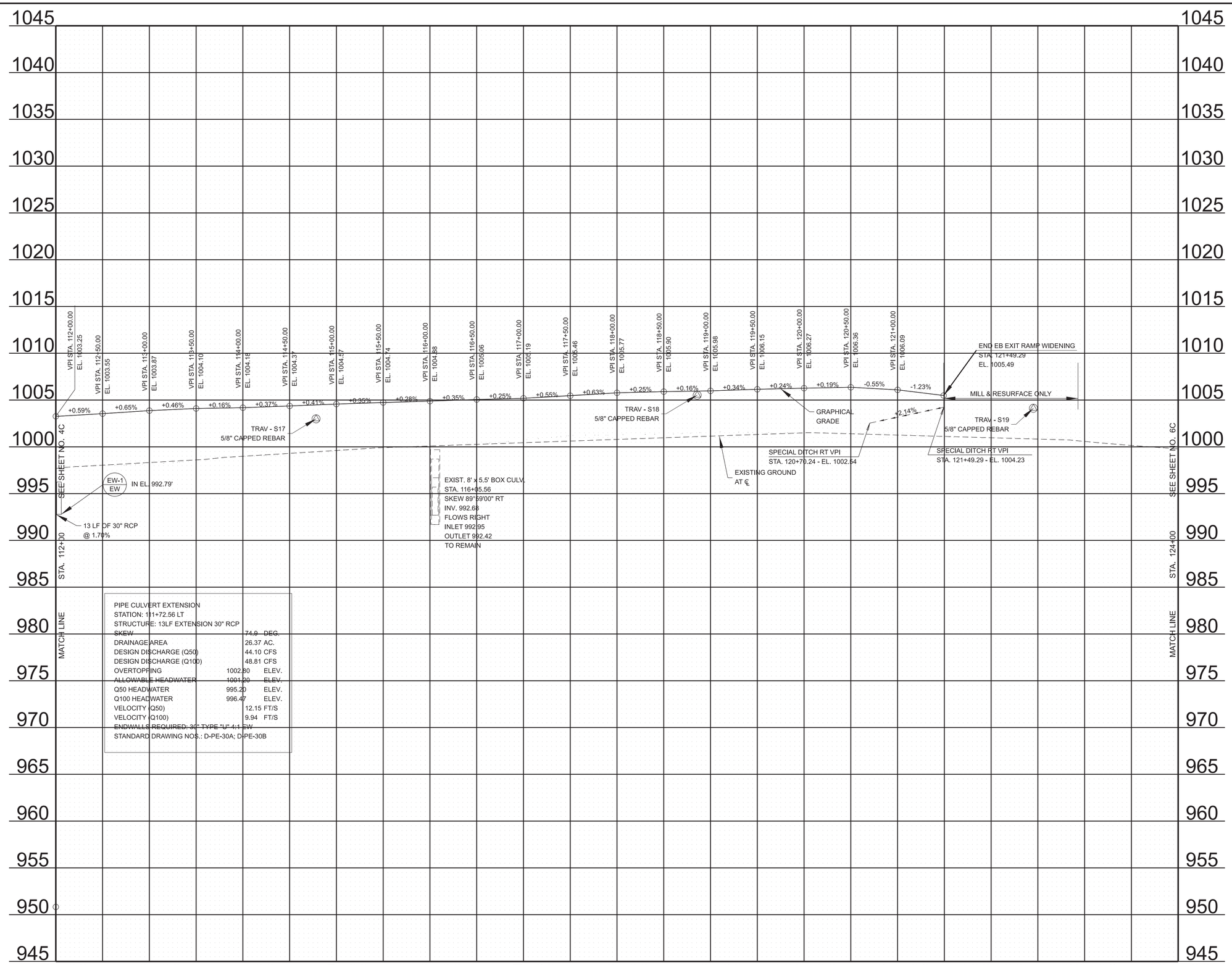
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

6/1/2026 12:02:53 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-PROPOSED LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	5C
P.I.H.	2026	31I024-S3-002	5C
PS&E	2026	31I024-S3-002	5C

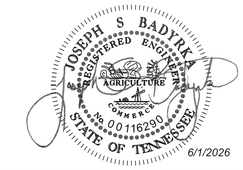


PIPE CULVERT EXTENSION
STATION: 111+72.56 LT
STRUCTURE: 13LF EXTENSION 30" RCP

SKEW	74.9	DEG.
DRAINAGE AREA	26.37	AC.
DESIGN DISCHARGE (Q50)	44.10	CFS
DESIGN DISCHARGE (Q100)	48.81	CFS
OVERTOPPING	1002.80	ELEV.
ALLOWABLE HEADWATER	1001.20	ELEV.
Q50 HEADWATER	995.20	ELEV.
Q100 HEADWATER	996.47	ELEV.
VELOCITY (Q50)	12.15	FT/S
VELOCITY (Q100)	9.94	FT/S

ENDWALLS REQUIRED: 30" TYPE "U" 4:1 FW
STANDARD DRAWING NOS.: D-PE-30A; D-PE-30B

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

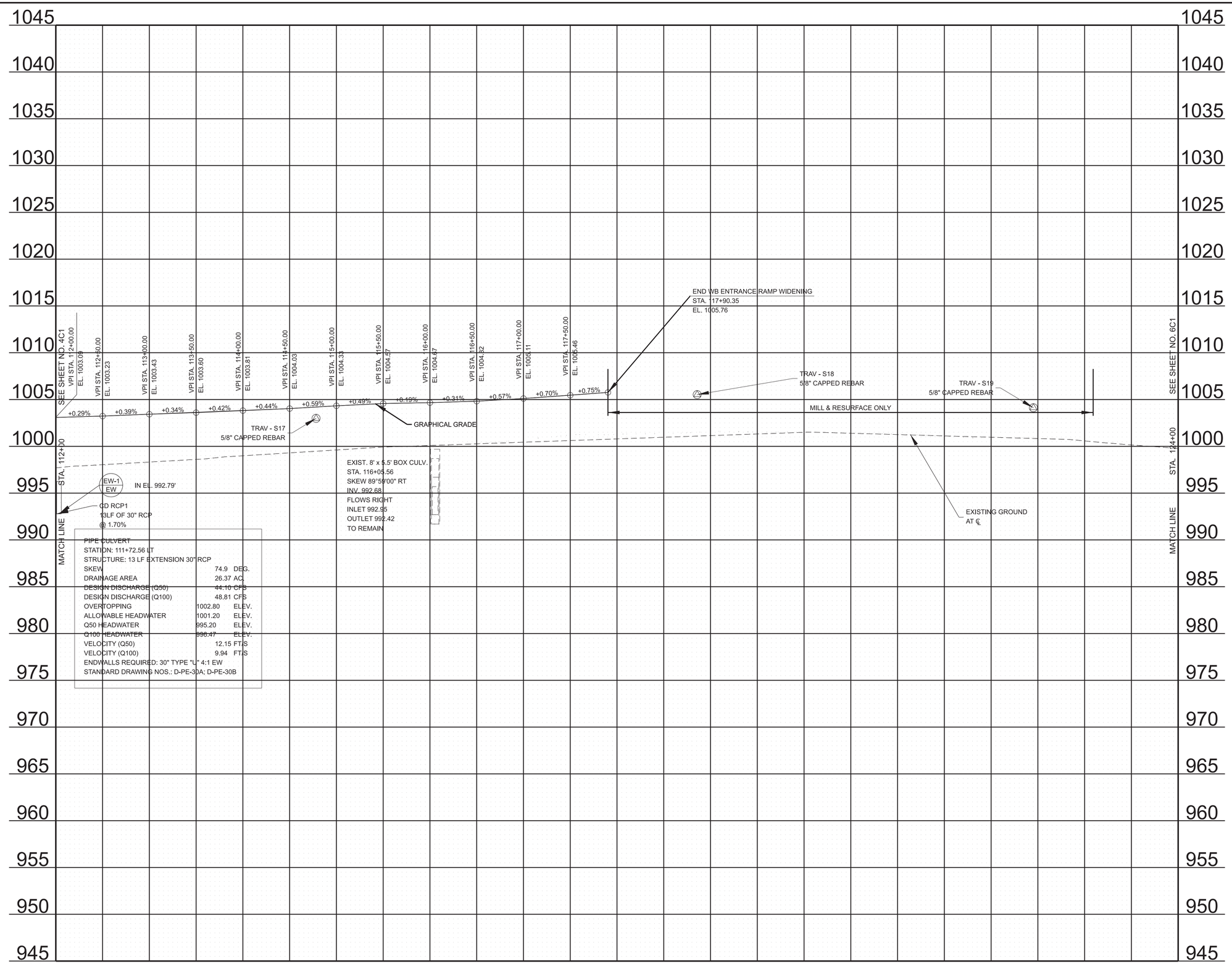
PROPOSED PROFILE
I-24 EB

STA. 112+00.00 TO STA. 124+00.00

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

6/1/2026 12:53:21 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 INTERCHANGE AT SR-50\DGN\31I024-SHT-PROPOSED PROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	5C1
P.I.H.	2026	31I024-S3-002	5C1
PS&E	2026	31I024-S3-002	5C1



SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 00116290
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 WB

STA. 112+00.00 TO STA. 124+00.00

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

6/1/2026 2:23:18 PM
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TDOT_STANDARDS\WORKSETS\1320953.00_WORKSET\DGN\31I024-SHT-PROPOSED PROFILES-I24 WB.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	6
P.I.H.	2026	31I024-S3-002	6
PS&E	2026	31I024-S3-002	6

AREA TO BE SCARIFIED AND OBLITERATED

~~PELHAM WEL, INC~~

~~WILLIAM HENLEY AND WADE BROWN~~

~~R & R PARTNERSHIP~~

~~LORRAINE CLARK HEIRS~~

~~WELTON INVESTMENTS AND THE PARMAN CORP.~~

~~PELHAM I-24 LLC~~

CONC. PAD W/ DIESEL PUMP

UNDERGROUND TANK ACCESS COVERS SEE PETROLEUM STORAGE BLOCK

SEPTIC AREA

FIELD LINES

PROPANE

I-S-B CITGO/ QUICK STOP S.W.

GAS STATION CANOPY

STAIRS FUEL

SIGN

40 FT. WIDE ACCESS ESMT BK 115, PG 378

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

CONTROLLED ACCESS FENCE

I-24 WB ENT RAMP(ASPH.)

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

CATCH BASIN
TOP: 1019.97'
INV(N): 1015.44'
BOTTOM: 1015.44'

TDOT ELECTRICAL
FIBER
TDOT CAMERA

CATCH BASIN
TOP:997.64'
INV:995.24'
BOT:995.24'
BLINDS INTO MEDIAN 18" RCP

CONCRETE DITCH

BRIDGE SURVEY NOT REQUIRED FOR THIS PROJECT

CONC. APRON

18" CPP

CATCH BASIN
TOP: 1020.00'
INV(SE): 1015.35'
BOTTOM: 1015.35'

ABANDONED

W.M.

W. SIZE UNKOWN

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

SEPTIC ACCESS
WOOD

PC STA. 501+16.04

1-S-F COMMERCIAL ABANDON

CANOPY MARK OUT

TANK MARK OUT

GAS STATION CANOPY

PT STA. 503+49.62

RAMP D
CURVE 501
PI 502+34.03
N 351945.6098
E 1997877.3646
Δ 20° RT.
D 9°
R 669.00'
L 233.58'
T 117.99'
LC 232.40'
BC S27.68452°E

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

GUARDRAIL (TO BE REMOVED)

TRAV - S9
5/8" CAPPED REBAR

CUT

FILL

RAMP D

I-24 WB EXIT RAMP(ASPH.)

EIP

TRAV - S31
5/8" CAPPED REBAR

S37°41'13"E

S17°40'56"E

SR-50

SR-50(ASPH.)

I-24

I-24(ASPH.)

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

INV:991.29'
STRUCTURE OBSTRUCTED

18" RCP (TO REMAIN)

SINK HOLE

RIP RAP (GRAVEL)

18 RCP ST

2-SPAN CONC. BRIDGE

BRIDGE ID #:31I00240001

INV: 997.20'
AT CONCRETE ENDWALL

TOP OF PIPE'
(EXPOSED)

UNDISTURBED

WTL-1

CATCH BASIN
TOP:997.73'
INV:995.53'
BOT:995.53'
BLINDS INTO MEDIAN 18" RCP

CATCH BASIN
TOP:1020.26'
INV(NW):1015.73'
BOT:1015.73'

CATCH BASIN
TOP:1020.33'
INV(NW):1015.89'
BOT:1015.89'

TRAV - S20
5/8" CAPPED REBAR

TRAV - S8
5/8" CAPPED REBAR

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

I-24 EB EXIT RAMP(ASPH.)

I-24 EB ENT RAMP(ASPH.)

EXIST. CONTROLLED ACCESS FENCE

TRACT 9 DEED DESCRIBES THE FENCE AS BOUNDARY

RIGHT-OF-WAY ACQUIRED IN MINUTE BOOK 11, PAGE 27

CIRCUIT COURT CLERK: ACCESS RIGHTS GRANTED TO PROPERTY OWNER

NO RECORD OF EASEMENT FOUND

30 FT. WIDE INGRESS/ EGRESS EASEMENT BK 1119, PG 855

COLLAPSED BARN

SEPTIC ACCESS

UNDERGROUND TANK ACCESS COVERS SEE PETROLEUM STORAGE BLOCK

1-S-F EXXON

GAS STATION CANOPY

FUEL PUMP

ELECTRIC OUTLET

N52°18'47"E

MATCH LINE STA. 124+00 SEE SHEET NO. 5

MATCH LINE STA. 136+00 SEE SHEET NO. 7

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S20	352125.6883	1997145.0859	1012.160	XTRAV	5/8" CAPPED REBAR	126+79.59	203.24
S8	351808.9520	1997376.0299	1019.460	XTRAV	5/8" CAPPED REBAR	130+71.40	214.08
S9	352067.5660	1997749.5071	1016.980	XTRAV	5/8" CAPPED REBAR	130+95.03	-239.58
S31	351654.9010	1997946.3835	999.370	XTRAV	5/8" CAPPED REBAR	135+41.96	-143.14

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

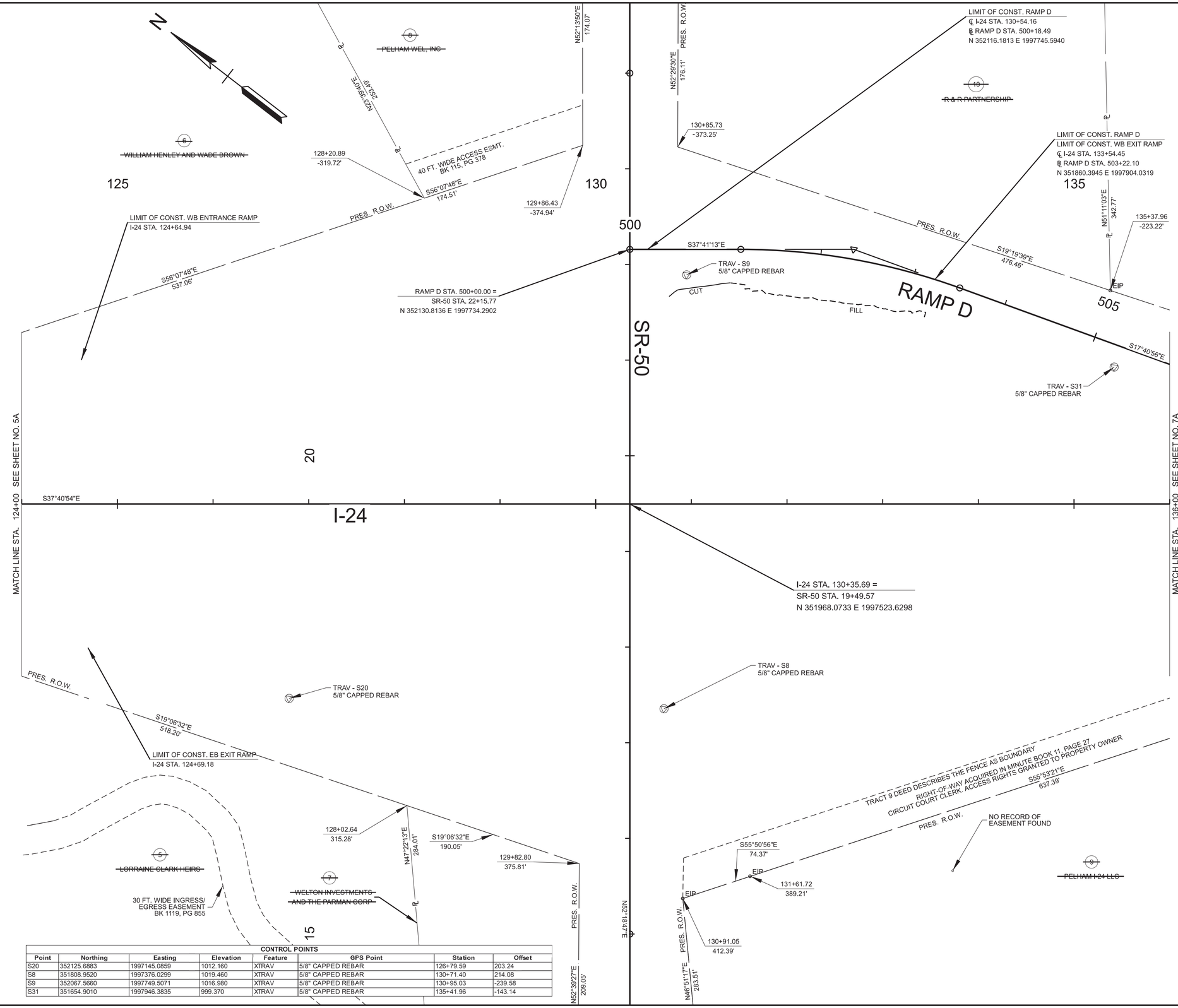
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

6/1/2026 11:54:34 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	6A
P.I.H.	2026	31I024-S3-002	6A
PS&E	2026	31I024-S3-002	6A



CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S20	352125.6883	1997145.0859	1012.160	XTRAV	5/8" CAPPED REBAR	126+79.59	203.24
S8	351808.9520	1997376.0299	1019.460	XTRAV	5/8" CAPPED REBAR	130+71.40	214.08
S9	352067.5660	1997749.5071	1016.980	XTRAV	5/8" CAPPED REBAR	130+95.03	-239.58
S31	351654.9010	1997946.3835	999.370	XTRAV	5/8" CAPPED REBAR	135+41.96	-143.14

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TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

6/1/2026 11:57:37 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	6B
P.I.H.	2026	31I024-S3-002	6B
PS&E	2026	31I024-S3-002	6B

N

125

130

135

500

505

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

WB ENT RAMP

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

LIMIT OF RESURFACING
STA. 500+18.49

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

SEE SHT. 9 FOR
RAMP D PROFILE

LIMIT OF STRIPING
STA. 23+74.40

LIMIT OF PAVING
STA. 23+29.63

47.5' R

LIMIT OF RESURFACING
STA. 501+45.79

BEGIN GUARDRAIL
TYPE 13 END ANCHOR
STA. 501+89.57
OFF. -28.46'

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

END RAMP D WIDENING
STA. 503+22.10
OFF. 0.30'

EOP
EOS

S37°41'13"E

EOS
EOP

35' R

END SPECIAL DITCH
STA. 501+05.46
OFF. 35.00'

BEGIN RAMP D WIDENING
STA. 500+41.19
OFF. 4.64'

RAMP D

WB EXIT RAMP

S17°40'56"E

SR-50

BEGIN SPECIAL DITCH
STA. 500+41.19
OFF. 37.38'

LIMIT OF PAVING
STA. 21+80.77

20

15

S37°40'54"E

I-24

MATCH LINE STA. 124+00 SEE SHEET NO. 5B

MATCH LINE STA. 136+00 SEE SHEET NO. 7B

UNDISTURBED
WTL-1

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

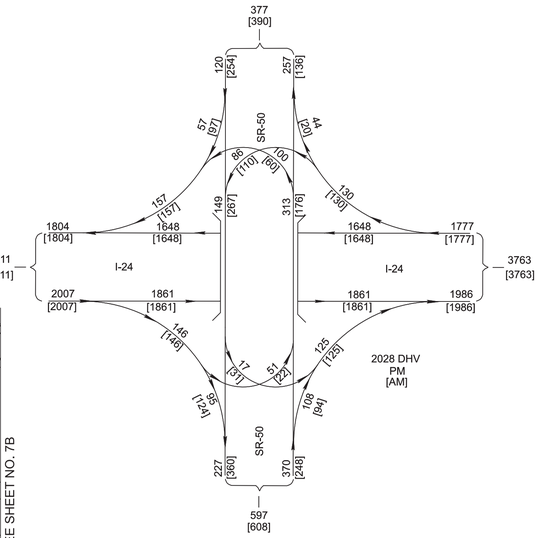
EB EXIT RAMP

EB ENT RAMP

N52°18'47"E

RESURFACING

NOTE:
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 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.



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COMMERCE
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STATE OF TENNESSEE
6/1/2026

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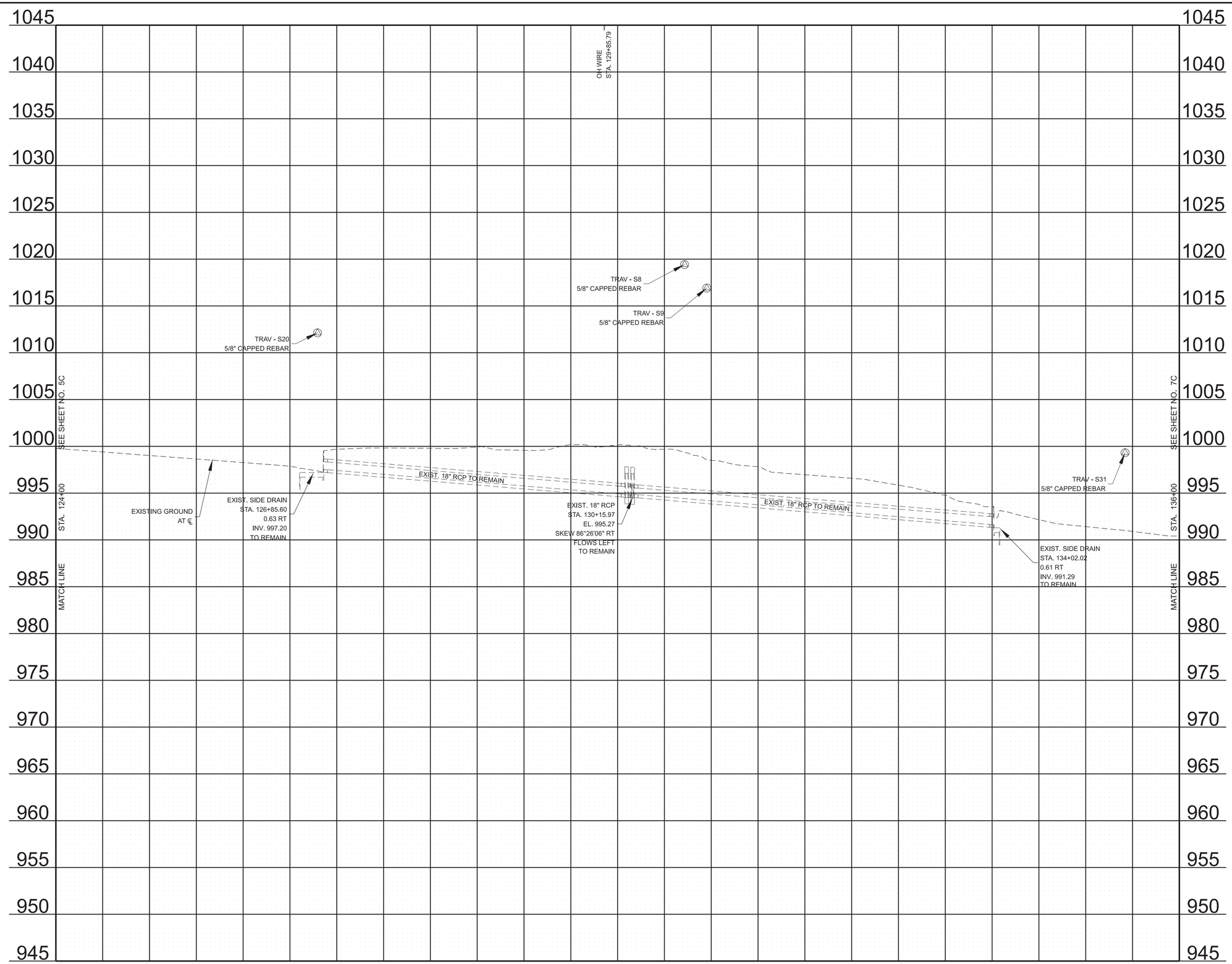
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

6/1/2026 12:03:21 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	6C
P.I.H.	2026	31I024-S3-002	6C
PS&E	2026	31I024-S3-002	6C



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JOSEPH S BADYRKA
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DEPARTMENT OF AGRICULTURE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 EB

STA. 124+00.00 TO STA. 136+00.00

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

6/1/2026 12:53:44 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSET\SI-24 INTERCHANGE AT SR-50\DGN\31I024-SHT-PROPOSED PROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	6C1
P.I.H.	2026	31I024-S3-002	6C1
PS&E	2026	31I024-S3-002	6C1

OH WIRE
STA. 129+85.79

TRAV - S8
5/8" CAPPED REBAR

TRAV - S9
5/8" CAPPED REBAR

TRAV - S20
5/8" CAPPED REBAR

SEE SHEET NO. 5C1

SEE SHEET NO. 7C1

STA. 124+00

STA. 136+00

MATCH LINE

MATCH LINE

EXISTING GROUND
AT ℄

EXIST. SIDE DRAIN
STA. 126+85.60
0.63 RT
INV. 997.20
TO REMAIN

EXIST. 18" RCP TO REMAIN

EXIST. 18" RCP
STA. 130+15.97
EL. 995.27
SKEW 86°26'06" RT
FLOWS LEFT
TO REMAIN

EXIST. 18" RCP TO REMAIN

TRAV - S31
5/8" CAPPED REBAR

EXIST. SIDE DRAIN
STA. 134+02.02
0.61 RT
INV. 991.29
TO REMAIN

1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965 960 955 950 945

124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00

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REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 WB

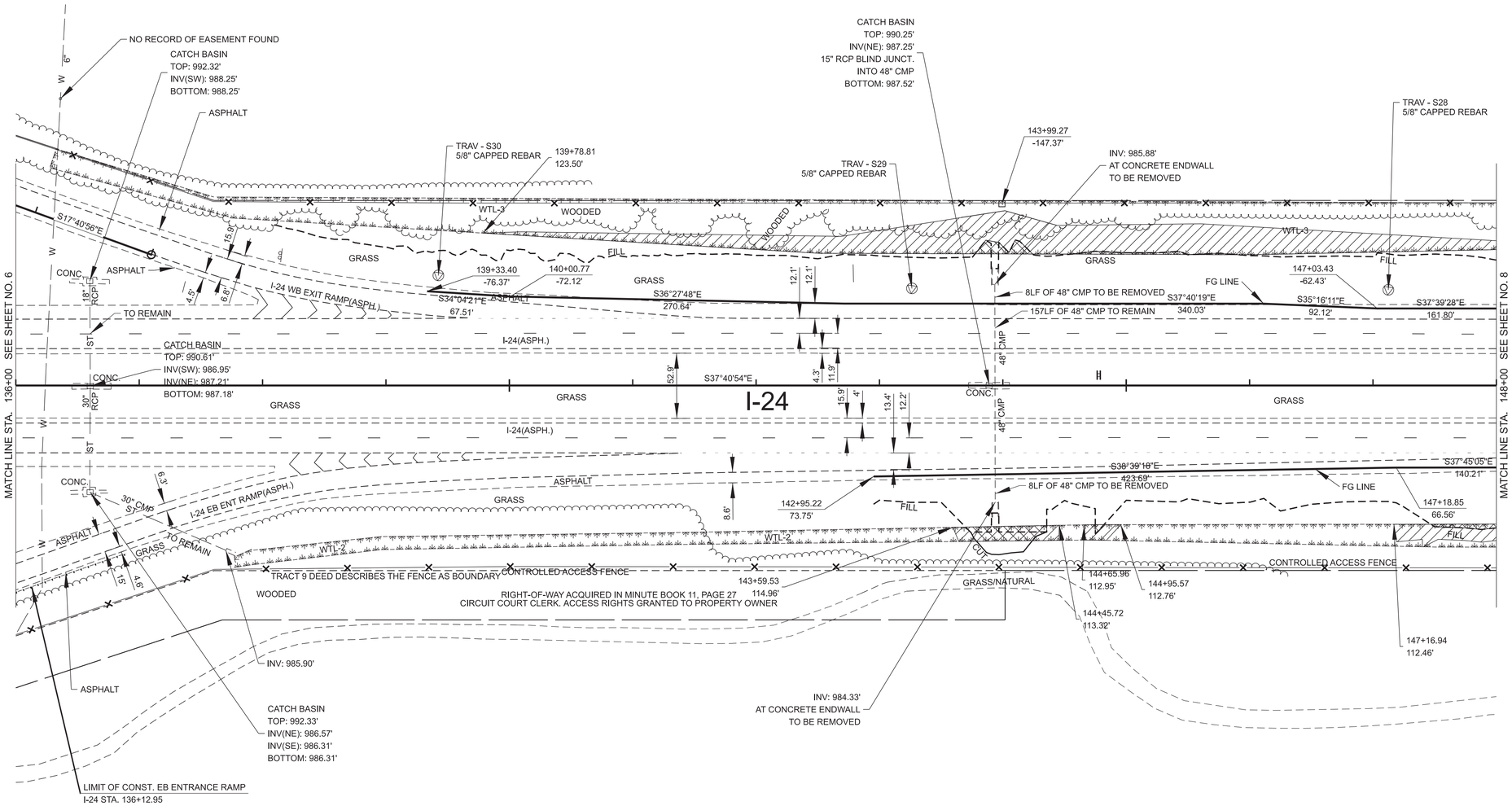
STA. 124+00.00 TO STA. 136+00.00

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

6/1/2026 1:15:37 PM
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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	7
P.I.H.	2026	31I024-S3-002	7
PS&E	2026	31I024-S3-002	7



CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S28	350688.4588	1998609.9783	992.460	XTRAV	5/8" CAPPED REBAR	147+12.46	-77.56
S29	350994.7999	1998374.8601	992.010	XTRAV	5/8" CAPPED REBAR	143+26.29	-78.74
S30	351304.9817	1998148.5513	992.370	XTRAV	5/8" CAPPED REBAR	139+42.47	-89.24

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AGRICULTURE
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No. 00116290
STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 136+00.00 TO STA. 148+00.00
SCALE: 1" = 50'

6/1/2026 2:29:07 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	7A
P.I.H.	2026	31I024-S3-002	7A
PS&E	2026	31I024-S3-002	7A

N

~~15~~
~~WILLIS FARMS INC~~

140

145

NO RECORD OF EASEMENT FOUND

S19°28'38"E
234.53'

137+60.74
-149.95'

TRAV - S30
5/8" CAPPED REBAR

PRES. R.O.W. S37°40'29"E
641.03'

TRAV - S29
5/8" CAPPED REBAR

143+99.27
-147.37'

S37°42'09"E
671.69'

TRAV - S28
5/8" CAPPED REBAR

S17°40'56"E

FILL

139+33.40
-76.37'

140+00.77
-72.12'

S34°04'21"E
67.51'

FG LINE

S36°27'48"E
270.64'

S37°40'19"E
340.03'

147+03.43
-62.43'

S35°16'11"E
92.12'

S37°39'28"E
161.80'

FILL

MATCH LINE STA. 136+00 SEE SHEET NO. 6A

MATCH LINE STA. 148+00 SEE SHEET NO. 8A

S37°40'54"E

I-24

S38°39'18"E
423.69'

S37°45'05"E
140.21'

FG LINE

142+95.22
73.75'

FILL

147+18.85
66.56'

FILL

S37°41'20"E
671.69'

TRACT 9 DEED DESCRIBES THE FENCE AS BOUNDARY

RIGHT-OF-WAY ACQUIRED IN MINUTE BOOK 11, PAGE 27
CIRCUIT COURT CLERK. ACCESS RIGHTS GRANTED TO PROPERTY OWNER
PRES. R.O.W. S37°41'20"E
634.62'

144+01.81
149.97'

144+01.82
189.97'

N52°18'40"E
40.00'

137+67.19
190.05'

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 136+12.95

~~9~~
~~PELHAM I-24 LLC~~

CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S28	350688.4588	1998609.9783	992.460	XTRAV	5/8" CAPPED REBAR	147+12.46	-77.56
S29	350994.7999	1998374.8601	992.010	XTRAV	5/8" CAPPED REBAR	143+26.29	-78.74
S30	351304.9817	1998148.5513	992.370	XTRAV	5/8" CAPPED REBAR	139+42.47	-89.24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

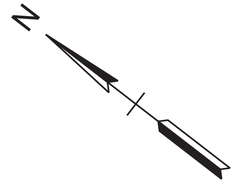
RIGHT OF WAY DETAILS

STA. 136+00.00 TO STA. 148+00.00
SCALE: 1" = 50'

6/1/2026 11:58:20 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1329530.00_WORKSET\DGN\31I024-SHT-ROW DETAILS.DGN

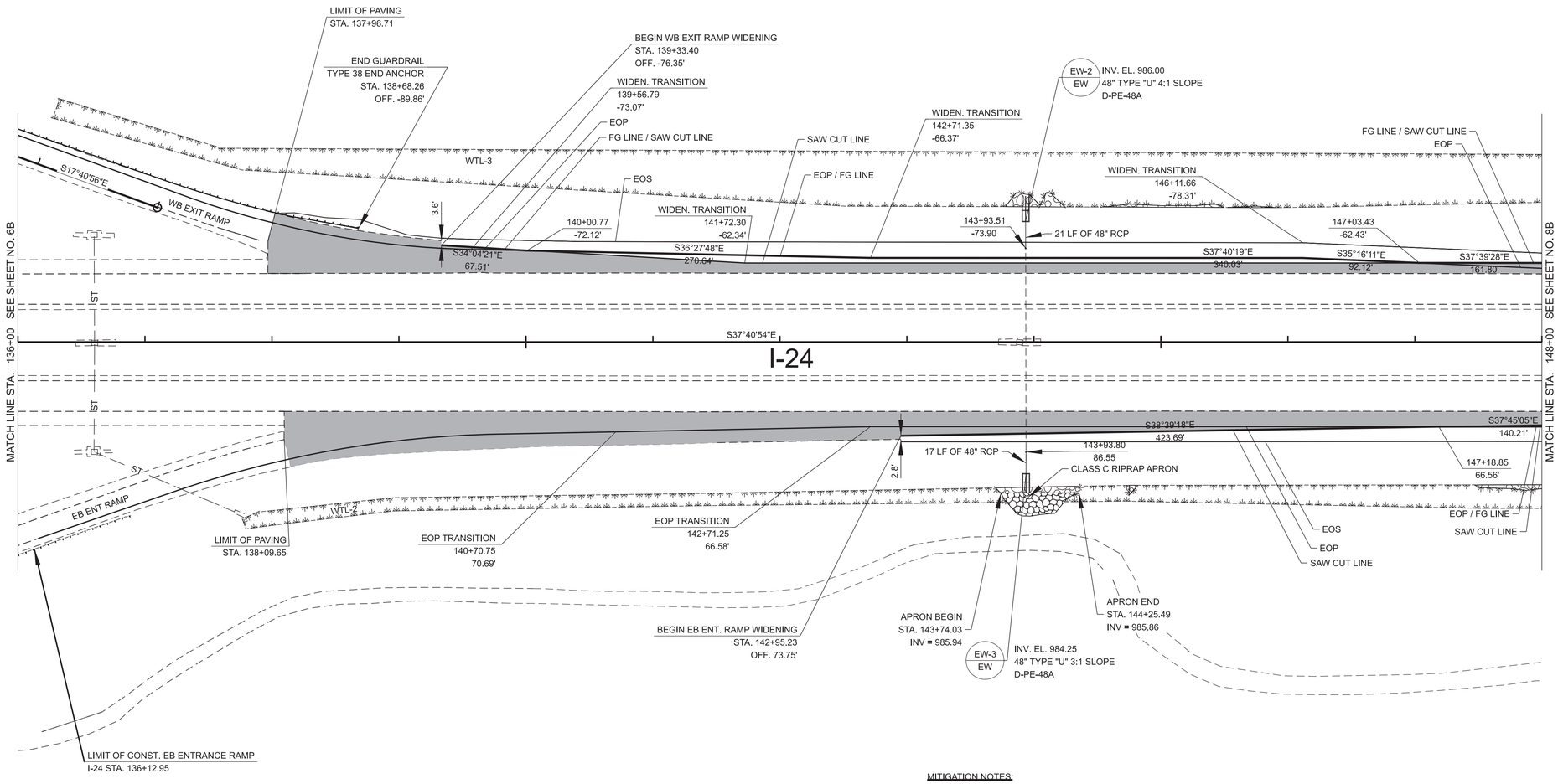
WETLAND IMPACTS	WTL-2	WTL-3
AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	7B
P.I.H.	2026	31I024-S3-002	7B
PS&E	2026	31I024-S3-002	7B



140

145



MITIGATION NOTES:

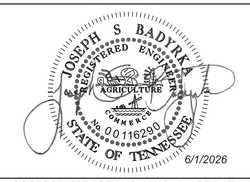
1. REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.
2. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE), RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION, AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.
3. THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01.36 ONLY. TREE PLANTINGS ARE NOT REQUIRED.
4. WETLAND AREA LOCATED OUTSIDE OF PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

GRADED SOLID ROCK

RESURFACING

NOTE:
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-2 & WTL-3 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY



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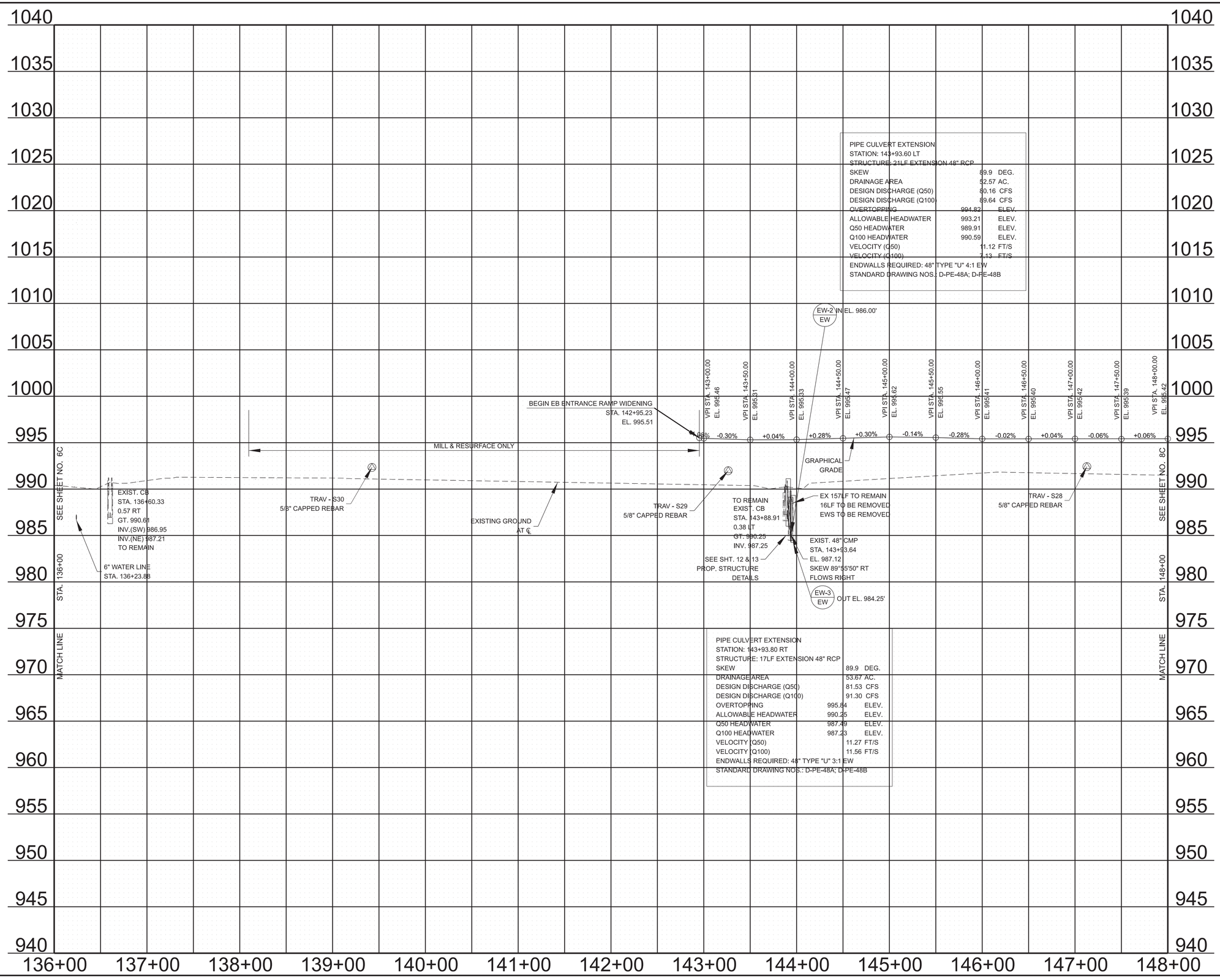
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 136+00.00 TO STA. 148+00.00
SCALE: 1" = 50'

6/1/2026 12:04:16 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-PROPOSED LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	7C
P.I.H.	2026	31I024-S3-002	7C
PS&E	2026	31I024-S3-002	7C



PIPE CULVERT EXTENSION
STATION: 143+93.60 LT
STRUCTURE: 21LF EXTENSION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	52.57	AC.
DESIGN DISCHARGE (Q50)	80.16	CFS
DESIGN DISCHARGE (Q100)	89.64	CFS
OVERTOPPING	994.82	ELEV.
ALLOWABLE HEADWATER	993.21	ELEV.
Q50 HEADWATER	989.91	ELEV.
Q100 HEADWATER	990.59	ELEV.
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	7.13	FT/S

ENDWALLS REQUIRED: 48" TYPE "U" 4:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-FE-48B

PIPE CULVERT EXTENSION
STATION: 143+93.80 RT
STRUCTURE: 17LF EXTENSION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	53.67	AC.
DESIGN DISCHARGE (Q50)	81.53	CFS
DESIGN DISCHARGE (Q100)	91.30	CFS
OVERTOPPING	995.84	ELEV.
ALLOWABLE HEADWATER	990.25	ELEV.
Q50 HEADWATER	987.49	ELEV.
Q100 HEADWATER	987.23	ELEV.
VELOCITY (Q50)	11.27	FT/S
VELOCITY (Q100)	11.56	FT/S

ENDWALLS REQUIRED: 48" TYPE "U" 3:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-PE-48B

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
No. 0116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 EB

STA. 136+00.00 TO STA. 148+00.00

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

6/1/2026 12:57:11 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 INTERCHANGE AT SR-50\DGN\31I024-SHT-PROPOSED PROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	7C1
P.I.H.	2026	31I024-S3-002	7C1
PS&E	2026	31I024-S3-002	7C1

PIPE CULVERT EXTENSION
STATION: 143+93.64 RT
STRUCTURE: 17LF EXTENSION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	52.57	AC.
DESIGN DISCHARGE (Q50)	80.16	CFS
DESIGN DISCHARGE (Q100)	89.64	CFS
OVERTOPPING	994.82	ELEV.
ALLOWABLE HEADWATER	993.21	ELEV.
Q50 HEADWATER	989.91	ELEV.
Q100 HEADWATER	990.59	ELEV.
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	7.13	FT/S

ENDWALLS REQUIRED: 48" TYPE "U" 3:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-PE-48B

BEGIN WB EXIT RAMP WIDENING
STA. 139+33.40
EL. 994.94

EW-2
EW
IN EL. 986.00'

SEE SHEET NO. 6C1

VPI STA. 139+50.00 EL. 995.45 +0.66%
VPI STA. 140+00.00 EL. 995.16 +0.21%
VPI STA. 140+50.00 EL. 995.26 +0.21%
VPI STA. 141+00.00 EL. 995.15 -0.22%
VPI STA. 141+50.00 EL. 995.14 -0.02%
VPI STA. 142+00.00 EL. 995.19 +0.10%
VPI STA. 142+50.00 EL. 995.06 -0.26%
VPI STA. 143+00.00 EL. 995.13 -0.06%
VPI STA. 143+50.00 EL. 994.98 -0.10%
VPI STA. 144+00.00 EL. 994.93 -0.10%
VPI STA. 144+50.00 EL. 994.98 +0.10%
VPI STA. 145+00.00 EL. 994.99 +0.02%
VPI STA. 145+50.00 EL. 994.96 -0.06%
VPI STA. 146+00.00 EL. 994.93 -0.06%
VPI STA. 146+50.00 EL. 995.04 +0.22%
VPI STA. 147+00.00 EL. 995.16 +0.24%
VPI STA. 147+50.00 EL. 995.20 +0.08%
STA. 148+00.00 EL. 995.33 +0.26%

SEE SHEET NO. 8C1

MILL & RESURFACE ONLY

GRAPHICAL GRADE

STA. 136+00

MATCH LINE

EXIST. CB
STA. 136+60.33
0.57 RT
GT. 990.61
INV.(SW) 986.95
INV.(NE) 987.21
TO REMAIN

6" WATER LINE
STA. 136+23.88

TRAV - S30
5/8" CAPPED REBAR

EXISTING GROUND AT ℄

TRAV - S29
5/8" CAPPED REBAR

TO REMAIN
EXIST. CB
STA. 143+88.91
0.38 LT
GT. 990.25
INV. 987.25

157LF EX PIPE TO REMAIN
16LF AND EWS TO BE REMOVED
SEE SHT. 12 & 13
FOR STRUCTURE
DETAILS

EXIST. 48" CMP
STA. 143+93.64
EL. 987.12
SKEW 89°55'50" RT
FLOWS RIGHT

EW-3
EW
OUT EL. 984.25'

TRAV - S28
5/8" CAPPED REBAR

STA. 148+00

MATCH LINE

PIPE CULVERT EXTENSION
STATION: 143+93.64 LT
STRUCTURE: 21LF EXTENTION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	52.57	AC.
DESIGN DISCHARGE (Q50)	80.16	CFS
DESIGN DISCHARGE (Q100)	89.64	CFS
OVERTOPPING	994.82	ELEV.
ALLOWABLE HEADWATER	993.21	ELEV.
Q50 HEADWATER	989.91	ELEV.
Q100 HEADWATER	990.59	ELEV.
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	7.13	FT/S

ENDWALLS REQUIRED: 48" TYPE "U" 4:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-PE-48B

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
TENNESSEE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 WB

STA. 136+00.00 TO STA. 148+00.00

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

6/1/2026 1:18:50 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-PROPOSED PROFILES-I24 WB.DGN

LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	8
P.I.H.	2026	31I024-S3-002	8
PS&E	2026	31I024-S3-002	8

15
~~WILLIS FARMS INC~~

150

155

16
~~BETTY WHITE SLOAN AND BRUCE SLOAN~~

16A
~~BETTY WHITE SLOAN AND BRUCE SLOAN~~

9
~~PELHAM I-24 LLC~~

150 FT. WIDE TVA EASEMENT (DRAWING LW-6701, SHEET 22) Book 78 Page 249 R.O.G.C.

TOWER# SA232A 88

150 FT. WIDE TVA EASEMENT (DRAWING LW-968, SHEET 48) Book 78 Page 249 R.O.G.C.

TOWER# SA232A 92

LIMIT OF CONST. WB EXIT RAMP
I-24 STA. 149+11.37

PC STA. 149+34.96

148+23.28
115.99'

CONTROLLED ACCESS FENCE

WTL-3

FILL

GRASS
148+65.23
82.36'

FG LINE

S37°39'28"E
161.80'

MATCH LINE STA. 148+00 SEE SHEET NO. 7

S37°40'54"E

S37°45'05"E
140.21'

FG LINE

CONTROLLED ACCESS FENCE

BILLBOARD

NO RECORD OF EASEMENT FOUND

ASPHALT

GRASS

WOODED

FILL

INV: 987.39'
AT CONCRETE ENDWALL
TO REMAIN

TRAV - S27
5/8" CAPPED REBAR

24" RCP TO REMAIN

CATCH BASIN
TOP: 991.15'
INV(NE): 986.93'
INV(SW): 986.98'
BOTTOM: 986.72'

TRAV - S26
5/8" CAPPED REBAR

HS-1G 70 70

HS-1G 70 70

INV:992.12'
4" CPP
DIRECTION

I-24

I-24(ASPH.)

S37°06'29"E 49.44'
S36°36'16"E 49.33'
S35°39'11"E 49.46'
S34°58'22"E 49.45'
S34°42'07"E 49.44'
S34°18'17"E 53.54'
S33°48'26"E 45.30'
S33°01'56"E 54.40'
S32°21'52"E 20.15'
S34°39'21"E 24.70'
S34°01'16"E 93.04'

155+44.40
62.00'

RIPRAP CHECK DAM
TO REMAIN

RIP RAP/ROCK FILL

WTL-2

GRASS/NATURAL

INV: 985.96'
AT CONCRETE ENDWALL
TO BE REMOVED

HS-1G 70 70

HS-1G 70 70

24" RCP

CONC.

52.6'

11.8'
11.2'

3.9'
11.8'

TRAV - S25
5/8" CAPPED REBAR

R=5402.25'
L=146.18'
S30°29'37"E
6.31'

GRASS

ASPHALT

GRAVEL

RIP RAP/ROCK FILL

WTL-2

WOODED

CONTROLLED ACCESS FENCE

156+98.56
62.00'

155+85.25
111.43'

PCC STA. 160+00.00

UNDISTURBED
WTL-4

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 157+28.28

END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

I-24
CURVE 101
PI 154+69.02
N 350042.2910
E 1999011.0595
Δ 11° RT.
D 1°
R 5729.58'
L 1065.04'
T 534.06'
LC 1063.50'
BC S32.35649°E

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S25	350047.1853	1999061.4498	996.230	XTRAV	5/8" CAPPED REBAR	154+90.04	-70.07
S26	350373.4079	1998847.0156	994.460	XTRAV	5/8" CAPPED REBAR	151+04.50	-75.12
S27	350688.4588	1998609.9783	992.460	XTRAV	5/8" CAPPED REBAR	147+12.46	-77.56

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 11:55:15 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	8A
P.I.H.	2026	31I024-S3-002	8A
PS&E	2026	31I024-S3-002	8A

15
~~WILLIS FARMS INC~~

150

155

16
~~BETTY WHITE SLOAN AND BRUCE SLOAN~~

N

150 FT. WIDE TVA EASEMENT (DRAWING LW-6701, SHEET 22)
Book 78 Page 249 R.O.G.C.

150 FT. WIDE TVA EASEMENT (DRAWING LW-968, SHEET 48)
Book 78 Page 249 R.O.G.C.

N48°55'55"E
597.76'

LIMIT OF CONST. WB EXIT RAMP
I-24 STA. 149+11.37

150+69.91
-151.75'

PRES. R.O.W.

R=5879.58'
L=742.75'

TRAV - S26
5/8" CAPPED REBAR

157+92.22
-169.26'

PRES. R.O.W.

R=5879.58'
L=1199.45'

TRAV - S27
5/8" CAPPED REBAR

TRAV - S25
5/8" CAPPED REBAR

FILL

148+65.23
-62.36'

FG LINE

S37°39'28"E
161.80'

SEE SHEET NO. 7A

MATCH LINE STA. 148+00

S37°40'54"E

I-24

S37°45'05"E
140.21'

S37°06'29"E 49.44'
S36°36'16"E 49.33'
S35°39'11"E 49.46'
S34°58'22"E 49.46'
S34°42'07"E 49.44'
S34°18'17"E 53.54'
S33°48'26"E 45.30'
S33°01'56"E 54.40'
S32°21'52"E 20.15'
S34°39'21"E 24.70'
S34°01'16"E 93.04'

R=5402.25'
L=146.18'

S30°29'37"E
6.31'

155+44.40
62.00'

FG LINE

FILL

158+54.96
129.31'

R=5579.58'
L=607.52'

FILL

R=5579.58'
L=759.16'

PRES. R.O.W.

156+98.56
62.00'

S47°23'36"W
128.45'

16A
~~BETTY WHITE SLOAN AND BRUCE SLOAN~~

NO RECORD OF
EASEMENT FOUND

150+77.20
148.16'

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 157+28.28

END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

9
~~PELHAM I-24 LLC~~

150 FT. WIDE TVA EASEMENT (DRAWING LW-6701, SHEET 22)
Book 78 Page 249 R.O.G.C.

150 FT. WIDE TVA EASEMENT (DRAWING LW-968, SHEET 48)
Book 78 Page 249 R.O.G.C.

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S25	350047.1853	1999061.4498	996.230	XTRAV	5/8" CAPPED REBAR	154+90.04	-70.07
S26	350373.4079	1998847.0156	994.460	XTRAV	5/8" CAPPED REBAR	151+04.50	-75.12
S27	350688.4588	1998609.9783	992.460	XTRAV	5/8" CAPPED REBAR	147+12.46	-77.56

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
CIVIL
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

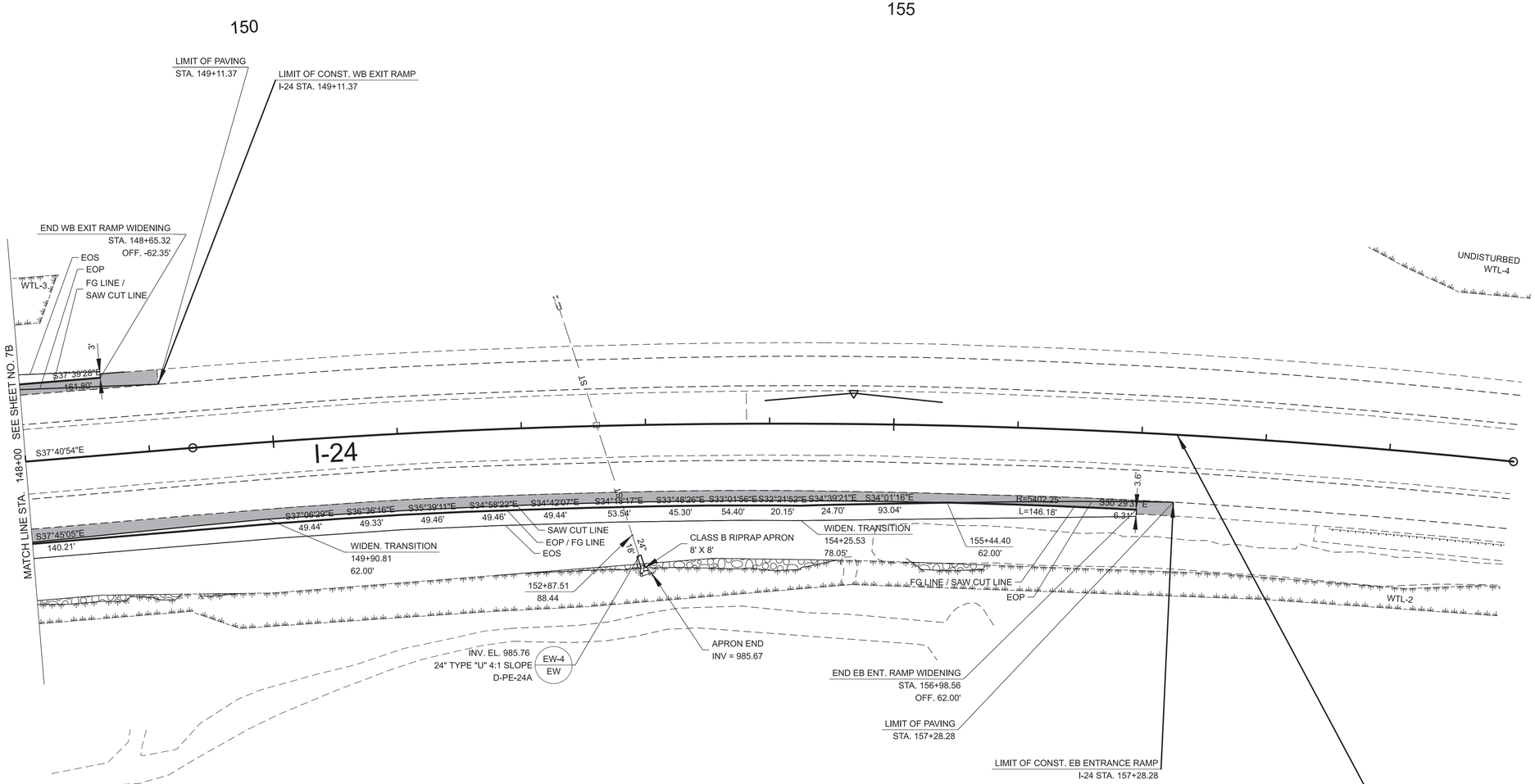
RIGHT OF WAY DETAILS

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 11:58:52 AM
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WETLAND IMPACTS	WTL-2	WTL-3
AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	8B
P.I.H.	2026	31I024-S3-002	8B
PS&E	2026	31I024-S3-002	8B



END PROJECT NO. 31I024-S3-002 CONST.

STA. 157+28.28 LM 128.075

N 349805.5955 E 1999124.5929

MITIGATION NOTES:

1. REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.
2. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE), RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION, AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.
3. THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01.36 ONLY. TREE PLANTINGS ARE NOT REQUIRED.
4. WETLAND AREA LOCATED OUTSIDE OF PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

GRADED SOLID ROCK

RESURFACING

NOTE:

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-2, WTL-3, & WTL-4 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

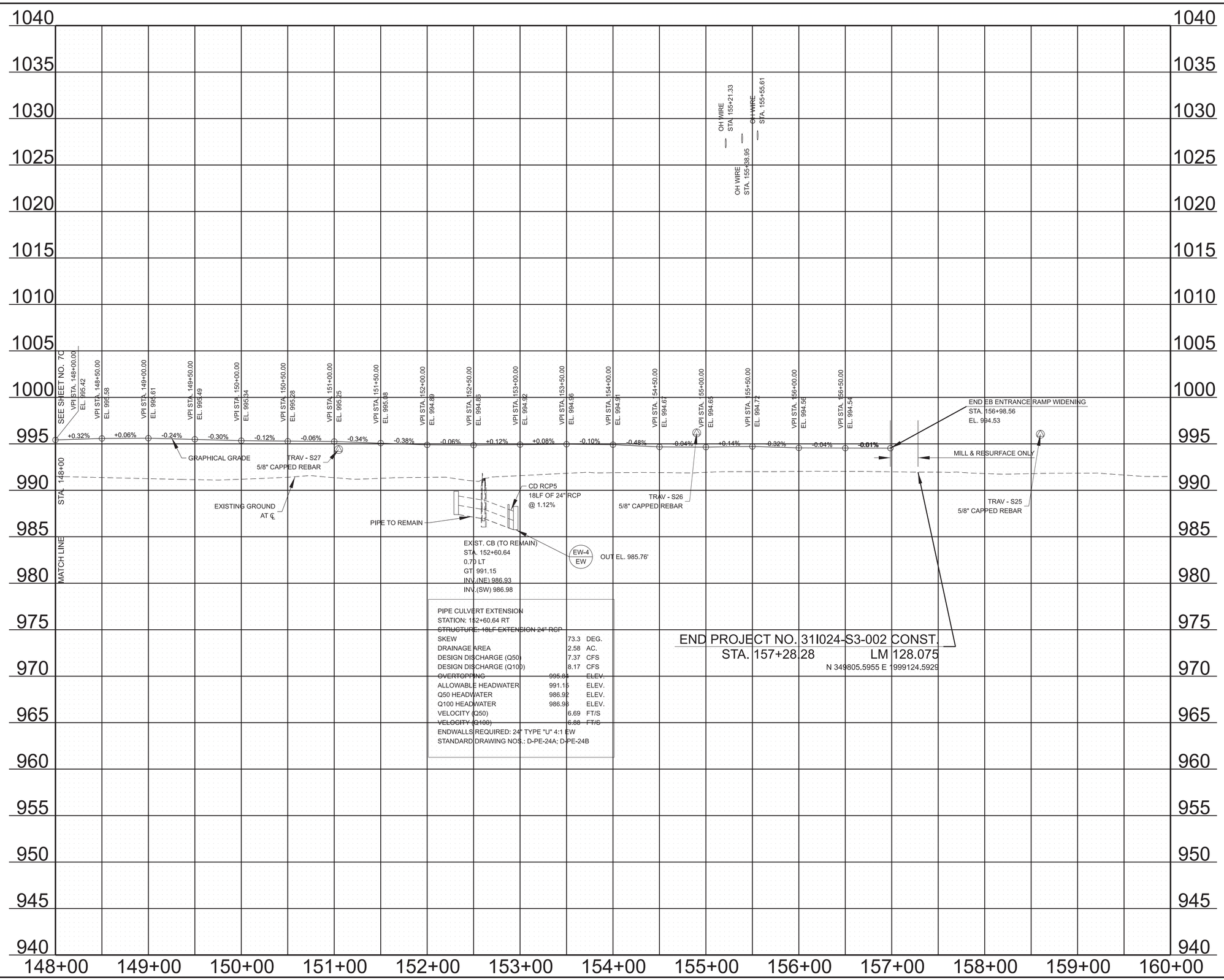
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

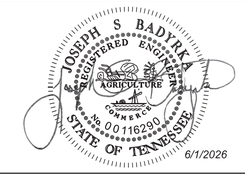
STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	8C
P.I.H.	2026	31I024-S3-002	8C
PS&E	2026	31I024-S3-002	8C



SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

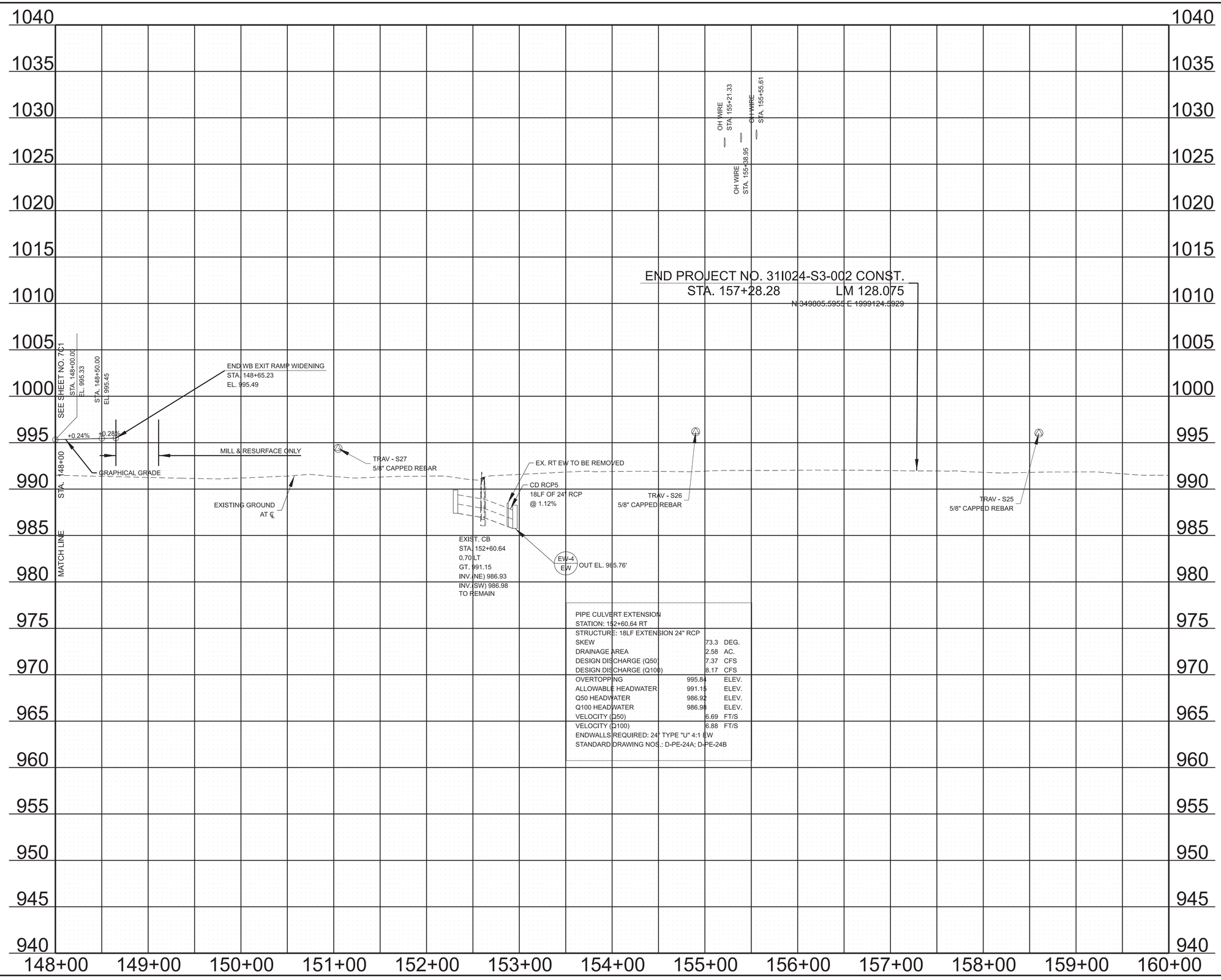
PROPOSED PROFILE
I-24 EB

STA. 148+00.00 TO STA. 160+00.00

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

6/1/2026 1:00:39 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 INTERCHANGE AT SR-50\DGN\31I024-SHT-PROPOSED PROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	8C1
P.I.H.	2026	31I024-S3-002	8C1
PS&E	2026	31I024-S3-002	8C1



PIPE CULVERT EXTENSION		
STATION: 152+60.64 RT		
STRUCTURE: 18LF EXTENSION 24" RCP		
SKEW	73.3	DEG.
DRAINAGE AREA	2.58	AC.
DESIGN DISCHARGE (Q50)	7.37	CFS
DESIGN DISCHARGE (Q100)	8.17	CFS
OVERTOPPING	995.84	ELEV.
ALLOWABLE HEADWATER	991.15	ELEV.
Q50 HEADWATER	986.92	ELEV.
Q100 HEADWATER	986.98	ELEV.
VELOCITY (Q50)	6.69	FT/S
VELOCITY (Q100)	6.88	FT/S
ENDWALLS REQUIRED: 24" TYPE "U" 4:1 EW		
STANDARD DRAWING NOS.: D-PE-24A; D-PE-24B		

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 00116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
I-24 WB

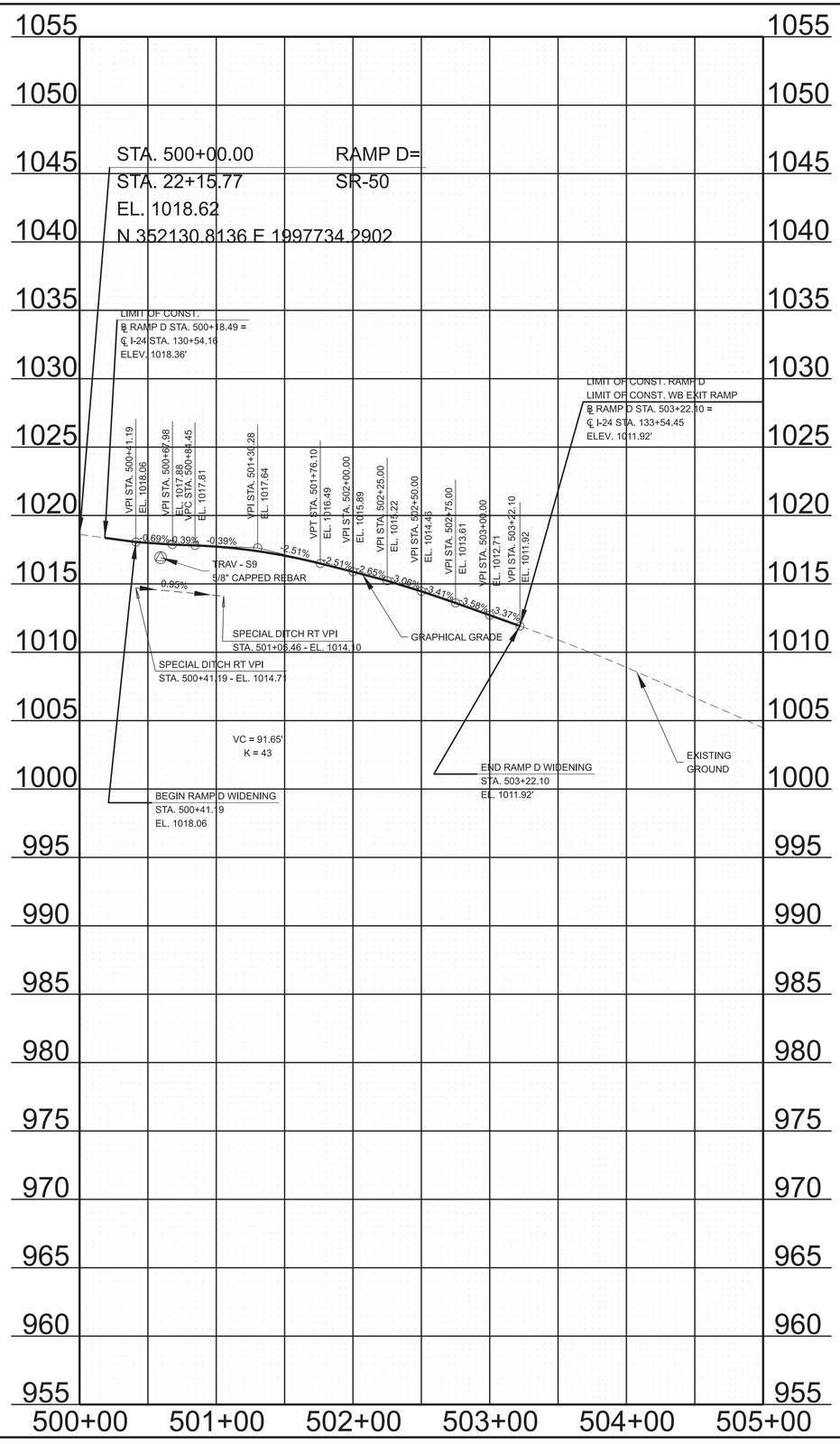
STA. 148+00.00 TO STA. 160+00.00

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

6/1/2026 1:24:21 PM
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53.00_WORKSET\DGN\31I024-SHT-PROPOSED PROFILES-I24 WB.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	9
P.I.H.	2026	31I024-S3-002	9
PS&E	2026	31I024-S3-002	9



SEALED BY

JOSEPH S BADYRA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0 0 116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

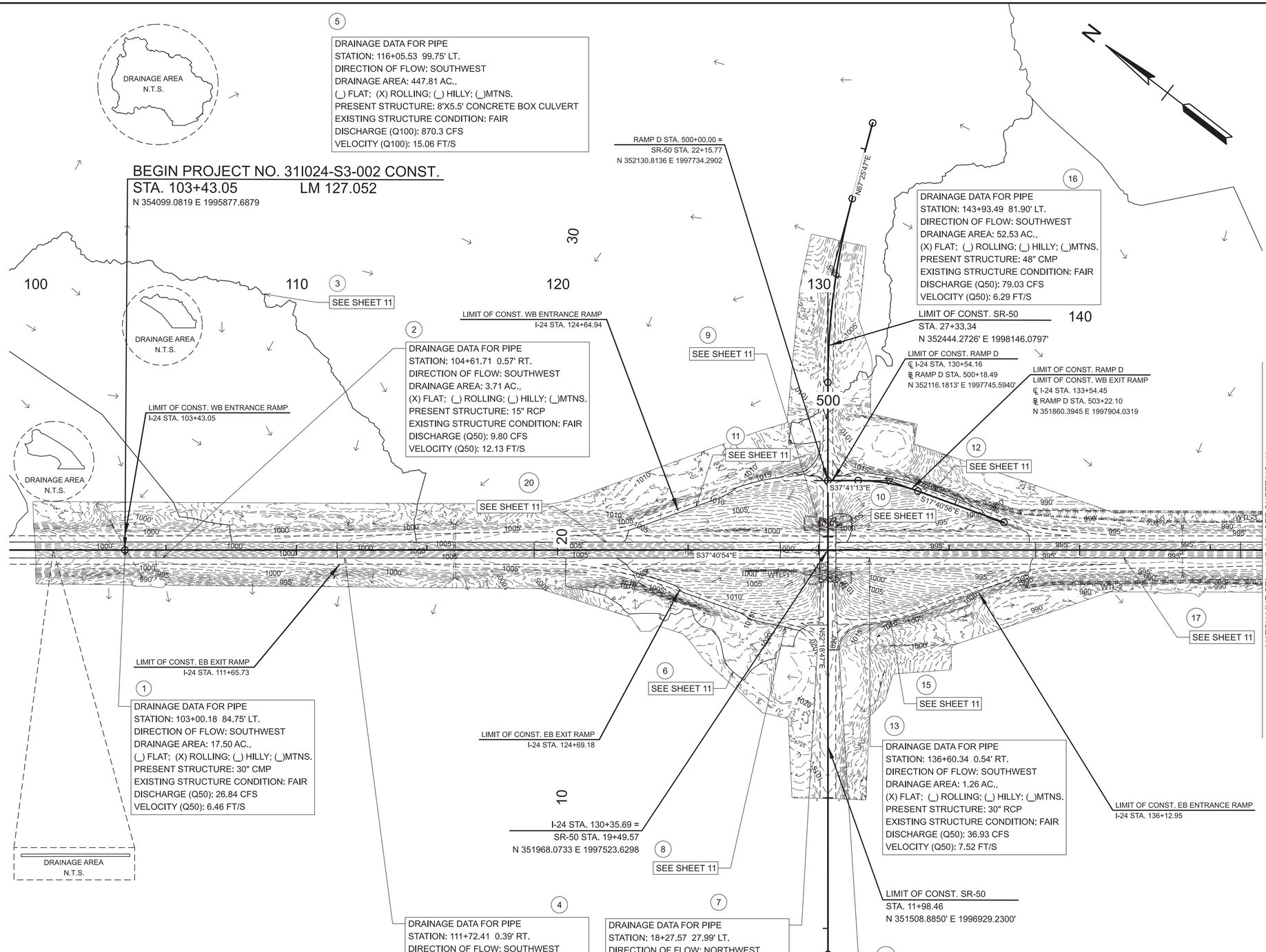
PROPOSED PROFILE
RAMP D

STA. 500+00.00 TO STA. 505+00.00

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

6/1/2026 1:28:46 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\131I024-SHT-PROPOSED PROFILES-RAMP D.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	10
P.I.H.	2026	31I024-S3-002	10
PS&E	2026	31I024-S3-002	10



SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

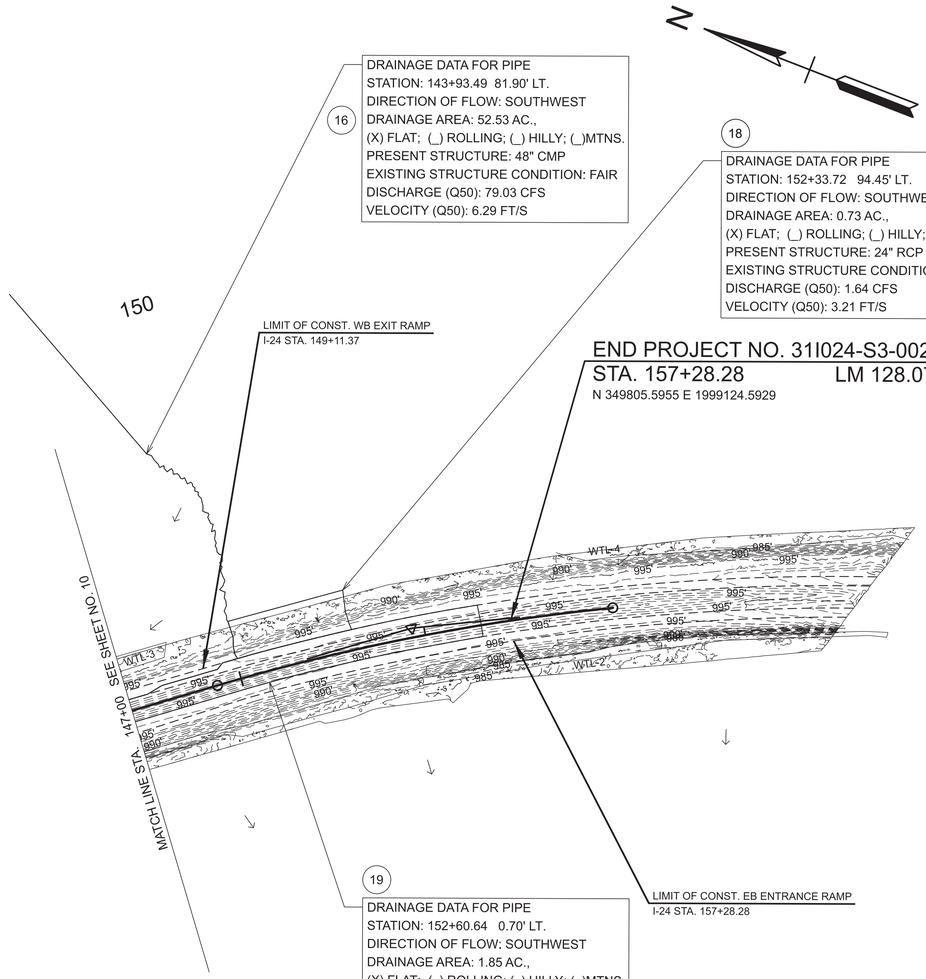
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 100+00.00 TO STA. 147+00.00
SCALE: 1" = 200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	11
P.I.H.	2026	31I024-S3-002	11
PS&E	2026	31I024-S3-002	11



16
DRAINAGE DATA FOR PIPE
STATION: 143+93.49 81.90' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 52.53 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 48" CMP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 79.03 CFS
VELOCITY (Q50): 6.29 FT/S

18
DRAINAGE DATA FOR PIPE
STATION: 152+33.72 94.45' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 0.73 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 1.64 CFS
VELOCITY (Q50): 3.21 FT/S

19
DRAINAGE DATA FOR PIPE
STATION: 152+60.64 0.70' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 1.85 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 7.41 CFS
VELOCITY (Q50): 6.67 FT/S

6
DRAINAGE DATA FOR PIPE
STATION: 123+12.15 119.80' RT.
DIRECTION OF FLOW: EAST
DRAINAGE AREA: 2.48 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 15" CMP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 5.84 CFS
VELOCITY (Q50): 4.76 FT/S

8
DRAINAGE DATA FOR PIPE
STATION: 130+10.15 76.31' RT.
DIRECTION OF FLOW: NORTHEAST
DRAINAGE AREA: 3.15 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 14.51 CFS
VELOCITY (Q50): 8.21 FT/S

9
DRAINAGE DATA FOR PIPE
STATION: 20+70.29 27.81' LT.
DIRECTION OF FLOW: NORTHWEST
DRAINAGE AREA: 0.09 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" CPP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 0.83 CFS
VELOCITY (Q50): 6.70 FT/S

10
DRAINAGE DATA FOR PIPE
STATION: 20+70.81 26.64' RT.
DIRECTION OF FLOW: SOUTHEAST
DRAINAGE AREA: 0.08 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" CPP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 0.74 CFS
VELOCITY (Q50): 6.36 FT/S

11
DRAINAGE DATA FOR PIPE
STATION: 130+11.53 74.95' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 3.19 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 9.97 CFS
VELOCITY (Q50): 5.64 FT/S

12
DRAINAGE DATA FOR PIPE
STATION: 136+59.89 84.60' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 3.08 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 12.31 CFS
VELOCITY (Q50): 6.96 FT/S

3
DRAINAGE DATA FOR PIPE
STATION: 111+97.58 95.30' LT.
DIRECTION OF FLOW: SOUTHWEST
DRAINAGE AREA: 26.60 AC.,
(_) FLAT; (X) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 30" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 43.53 CFS
VELOCITY (Q50): 12.04 FT/S

15
DRAINAGE DATA FOR PIPE
STATION: 136+60.21 86.46' RT.
DIRECTION OF FLOW: SOUTH
DRAINAGE AREA: 3.28 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 30" CMP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 46.60 CFS
VELOCITY (Q50): 9.49 FT/S

17
DRAINAGE DATA FOR PIPE
STATION: 143+88.87 0.13' RT.
DIRECTION OF FLOW: SOUTHEAST
DRAINAGE AREA: 1.10 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 15" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 2.92 CFS
VELOCITY (Q50): 2.38 FT/S

20
DRAINAGE DATA FOR PIPE
STATION: 126+85.44 0.60' RT.
DIRECTION OF FLOW: SOUTHEAST
DRAINAGE AREA: 1.31 AC.,
(X) FLAT; (_) ROLLING; (_) HILLY; (_)MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION: FAIR
DISCHARGE (Q50): 3.66 CFS
VELOCITY (Q50): 2.07 FT/S

SEALED BY

JOSEPH S BADYRA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0 0 116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 147+00.00 TO STA. 160+00.00
SCALE: 1" = 200'

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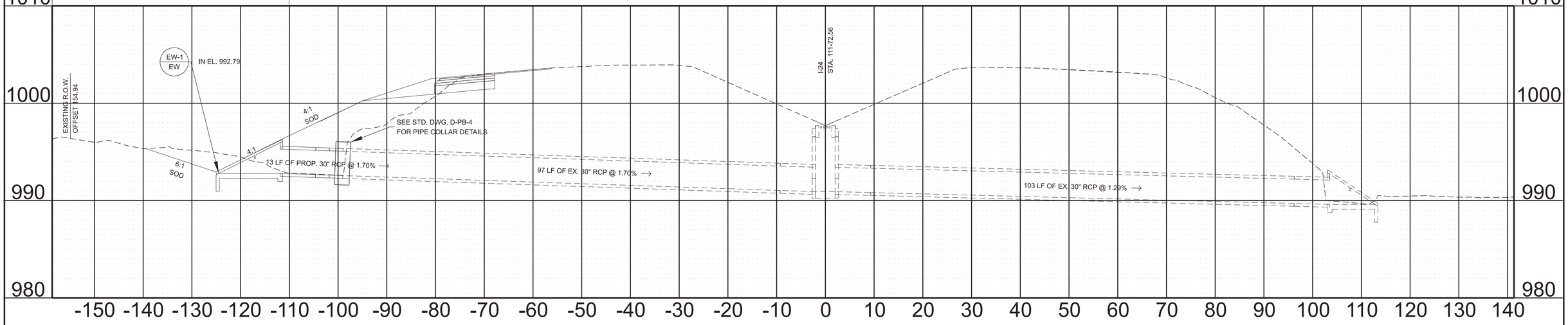
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	12
P.I.H.	2026	31I024-S3-002	12
PS&E	2026	31I024-S3-002	12

PIPE CULVERT
STATION: 111 + 72.56 LT
STRUCTURE: 13 LF EXTENSION 30" RCP

SKEW	74.9 DEG
DRAINAGE AREA	26.37 AC.
DESIGN DISCHARGE (Q50)	44.10 CFS
DESIGN DISCHARGE (Q100)	48.81 CFS
OVERTOPPING	1002.80 ELEV.
ALLOWABLE HEADWATER	1001.20 ELEV.
Q50 HEADWATER	995.20 ELEV.
Q100 HEADWATER	996.47 ELEV.
VELOCITY (Q50)	12.15 FT/S
VELOCITY (Q100)	9.64 FT/S

ENDWALLS REQUIRED: 30" TYPE "U" 4:1 EW
STANDARD DRAWING NOS.: D-PE-30A; D-PE-30B

STA. 111+72.56



SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
ARCHITECTURE & ENGINEERING
No. 0116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	13
P.I.H.	2026	31I024-S3-002	13
PS&E	2026	31I024-S3-002	13

PIPE CULVERT
STATION: 143+93.64 LT
STRUCTURE: 21 LF EXTENSION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	52.57	AC.
DESIGN DISCHARGE (Q50)	80.16	CFS
DESIGN DISCHARGE (Q100)	89.64	CFS
OVERTOPPING	994.82	ELEV.
ALLOWABLE HEADWATER	993.21	ELEV.
Q50 HEADWATER	989.91	ELEV.
Q100 HEADWATER	990.59	ELEV.
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	7.13	FT/S

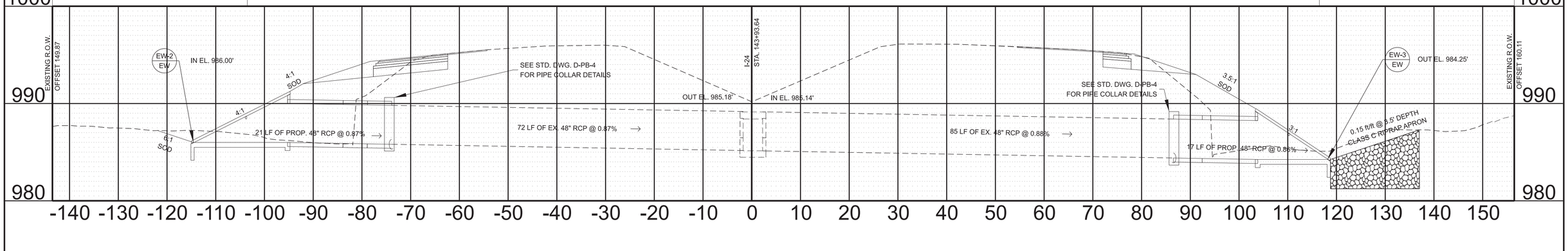
ENDWALLS REQUIRED: 48" TYPE "U" 4:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-PE-48B

PIPE CULVERT
STATION: 143+93.64 RT
STRUCTURE: 17 LF EXTENSION 48" RCP

SKEW	89.9	DEG.
DRAINAGE AREA	53.67	AC.
DESIGN DISCHARGE (Q50)	81.53	CFS
DESIGN DISCHARGE (Q100)	91.30	CFS
OVERTOPPING	995.84	ELEV.
ALLOWABLE HEADWATER	990.25	ELEV.
Q50 HEADWATER	987.49	ELEV.
Q100 HEADWATER	987.23	ELEV.
VELOCITY (Q50)	11.27	FT/S
VELOCITY (Q100)	11.56	FT/S

ENDWALLS REQUIRED: 48" TYPE "U" 3:1 EW
STANDARD DRAWING NOS.: D-PE-48A; D-PE-48B

STA. 143+93.64

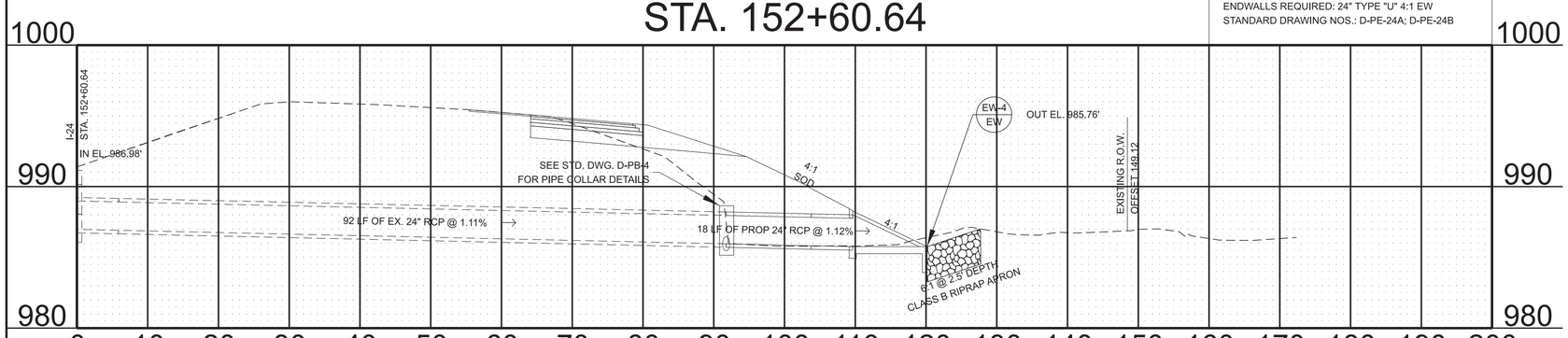


PIPE CULVERT
STATION: 152+60.64 RT
STRUCTURE: 18 LF EXTENSION 24" RCP

SKEW	73.3	DEG.
DRAINAGE AREA	2.58	AC.
DESIGN DISCHARGE (Q50)	7.37	CFS
DESIGN DISCHARGE (Q100)	8.17	CFS
OVERTOPPING	995.84	ELEV.
ALLOWABLE HEADWATER	991.15	ELEV.
Q50 HEADWATER	986.92	ELEV.
Q100 HEADWATER	986.98	ELEV.
VELOCITY (Q50)	6.69	FT/S
VELOCITY (Q100)	6.88	FT/S

ENDWALLS REQUIRED: 24" TYPE "U" 4:1 EW
STANDARD DRAWING NOS.: D-PE-24A; D-PE-24B

STA. 152+60.64



SEALED BY

JOSEPH S BADYRA
REGISTERED ENGINEER
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COMMERCE
No. 0 0 116290
STATE OF TENNESSEE
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	14
P.I.H.	2026	31I024-S3-002	14
PS&E	2026	31I024-S3-002	14

SUBSECTION 3 – EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

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.

SUBSECTION 4 – EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES

(1) 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 BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(2) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(3) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING OCCURS, EXCEPT AS SUCH WORK AY BE NECESSARY TO INSTALL EPSC FEATURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

a. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

b. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

c. NO OTHER CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

d. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

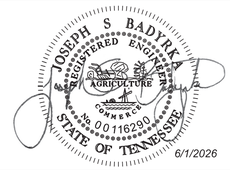
(4) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(5) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.

(6) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SWPPP.

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

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	15
P.I.H.	2026	31I024-S3-002	15
PS&E	2026	31I024-S3-002	15

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	STAGE I QUANTITY 31I024-S3-002	STAGE II QUANTITY 31I024-S3-002	STAGE III QUANTITY 31I024-S3-002	TOTAL QUANTITY
(1)	209-05	SEDIMENT REMOVAL	C.Y.				170
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	3200			3200
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	2300	760		3060
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	2	2		4
(1)	209-08.09	FILTER SOCK CHECK DAM	EACH	8	1		9
(1)(3)	209-09.01	SANDBAGS	BAG		4100		4100
(1)	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH		1		1
(1)(3)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.		220		220
(1)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2			2
(1)(2)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	0	64		64
(1)(3)	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.		250		250
(1)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	3650			3650
(7)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	260			260
(1)(2)(7)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	520	150		670
(1)(4)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1250			1250
(1)(5)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	100	100		200
(1)(6)	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT			26	26
(1)	801-03	WATER (SEEDING & SODDING)	M.G.	10	10	115	135
(1)(6)	803-01	SODDING (NEW SOD)	S.Y.			11090	11090
(1)(6)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.			2900	2900

EPSC FOOTNOTES

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(2) TO BE USED FOR SEDIMENT FILTER BAG INSTALLATION & TYPE 2 CULVERT PROTECTION.
(3) TO BE USED FOR SUSPENDED PIPE DIVERSION DURING CONSTRUCTION OF DRAINAGE STRUCTURE WITHIN WETLAND BOUNDARIES. SEE STD. DWG. EC-STR-33A FOR DETAILS.
(4) INCLUDES 150 LF FOR TYPE 2 CULVERT PROTECTION.
(5) TO BE USED AS TEMPORARY SLOPE TREATMENT BETWEEN STAGES.
(6) TO BE USED AS FINAL STABILIZATION.
(7) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
SOCK SOCK	FILTER SOCK	EC-STR-8
	FILTER SOCK CHECK DAM	EC-STR-6
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
	SAND BAG	EC-STR-33A
TUBE TUBE	SEDIMENT TUBE	EC-STR-37
HVF HVF	HIGH VISIBILITY FENCE	S-F-1
TCE	TEMPORARY CONSTRUCTION EXIT*	EC-STR-25
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

*TO BE PLACED AT THE DIRECTION OF THE ENGINEER

CLEARING AND GRUBBING
STAGE 1 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
1	103+65.36	0.62 AC	0.76%
2	117+32.67	0.81 AC	2.85%

INTERMEDIATE CONSTRUCTION
STAGE 2 OUTFALL TABULATION

TFALL	STA	AREA	SLOPE
1	103+46.46	0.70 AC	0.11%
2	118+31.43	0.90 AC	0.41%
3	133+20.00	0.62 AC	3.50%
4	143+40.00	0.02 AC	N/A

FINAL CONSTRUCTION
STAGE 3 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
1	103+46.46	0.70 AC	0.11%
2	118+31.43	0.90 AC	0.41%
3	133+20.00	0.62 AC	3.50%

EPSC STAGING NOTES

STAGE 1:

1. INSTALL ALL MEASURES PRIOR TO ANY CONSTRUCTION ACTIVITIES
2. CLEARING & GRUBBING
3. SCARIFY PAVEMENT AS NOTED IN PLANS, REMOVE ADJACENT CURB & GUTTER, AND STABILIZE AREA
4. REMOVE EX. GUARDRAIL & PLACE PROPOSED GUARDRAIL ALONG RAMP D/WB EXIT RAMP
5. WIDEN OUTSIDE LANES
6. EXTEND DRAINAGE FEATURES USING APPROPRIATE MEASURES
7. STABILIZE SLOPES
8. CONSTRUCT RIP-RAP APRONS
9. INSTALL LIGHTING ALONG OUTSIDE SHOULDERS PER PLANS

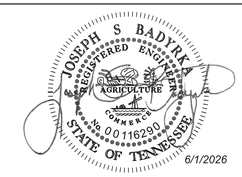
STAGE 2:

1. MOVE TEMPORARY MEASURES
2. INSTALL HIGH MAST LIGHTING BETWEEN RAMPS AND I-24 PER PLANS
3. CONSTRUCT WIDENED SHOULDER AND SPECIAL DITCH ON RAMP D
4. STABILIZE SLOPES

STAGE 3:

1. MAINTAIN MEASURES THROUGH FINAL CONSTRUCTION ACTIVITIES AND FACILITATE PERMANENT STABILIZATION

SEALED BY



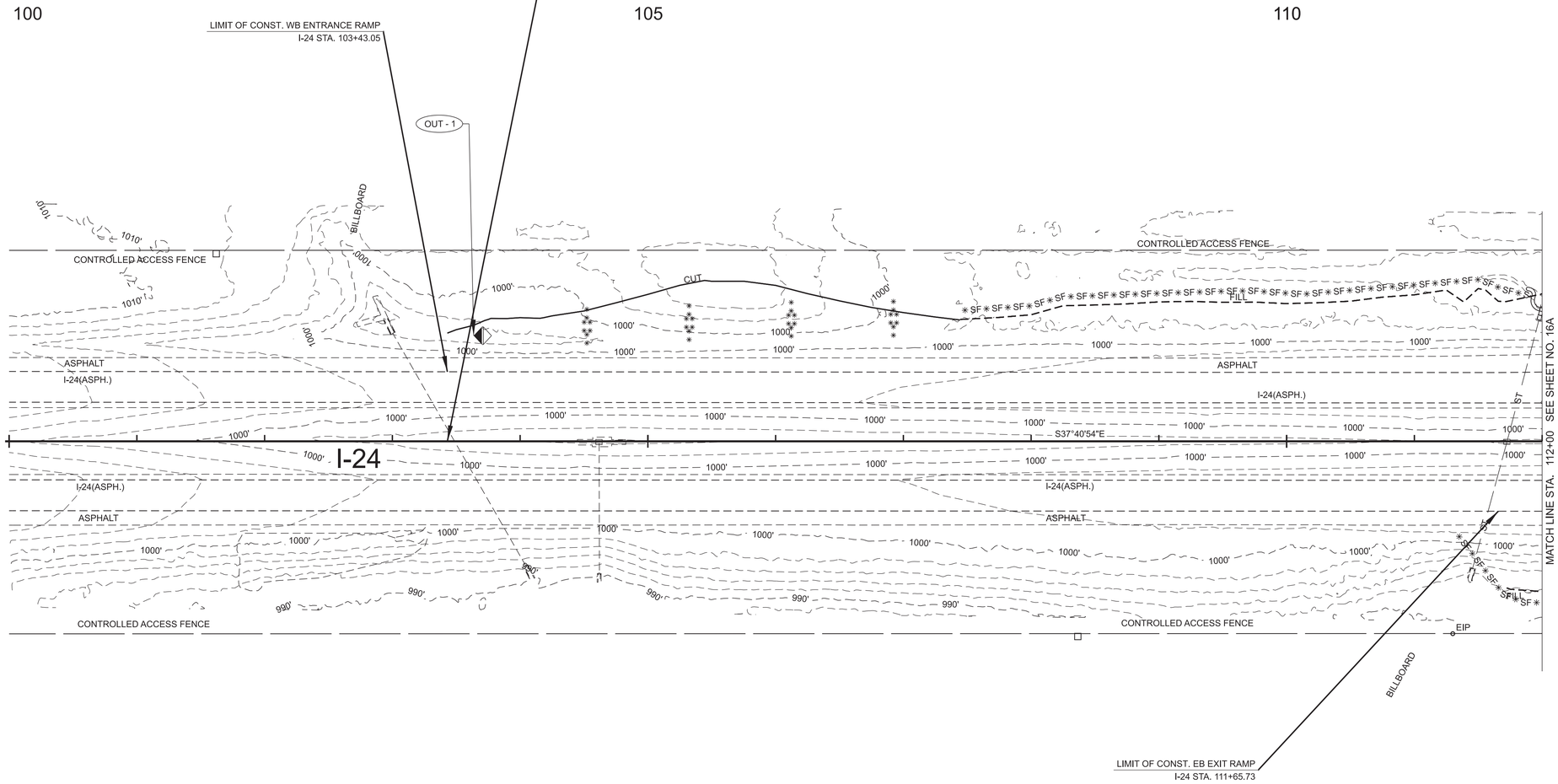
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

6/1/2026 1:32:32 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	16
P.I.H.	2026	31I024-S3-002	16
PS&E	2026	31I024-S3-002	16

BEGIN PROJECT NO. 31I024-S3-002 CONST.
STA. 103+43.05 LM 127.052
N 354099.0819 E 1995877.6879



STAGE I
CLEARING AND
GRUBBING

EXISTING CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

CLEARING AND GRUBBING			
STAGE 1 OUTFALL TABULATION			
OUTFALL	**STA**	**AREA**	**SLOPE**
1	103+65.36	0.62 AC	0.76%

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JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

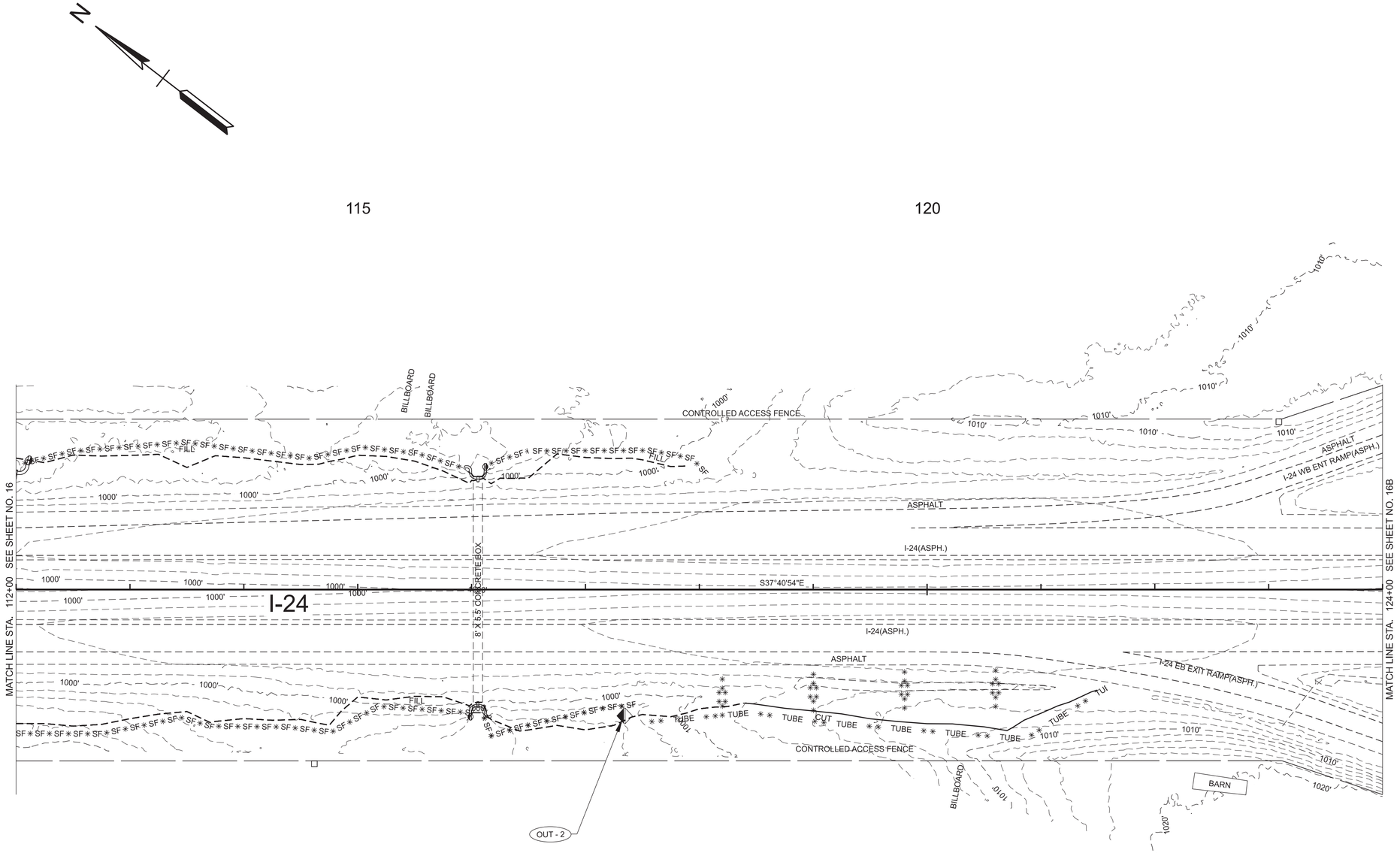
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 1:36:00 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	16A
P.I.H.	2026	31I024-S3-002	16A
PS&E	2026	31I024-S3-002	16A



STAGE I
CLEARING AND
GRUBBING

EXISTING CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

CLEARING AND GRUBBING

STAGE 1 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
2	117+32.67	0.81 AC	2.85%

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
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STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 112+00.00 TO STA. 124+00.00

SCALE: 1" = 50'

6/1/2026 1:35:19 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	16B
P.I.H.	2026	31I024-S3-002	16B
PS&E	2026	31I024-S3-002	16B

N

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 361968.0733 E 1997523.6298

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

BRIDGE SURVEY NOT REQUIRED
FOR THIS PROJECT

SEE SHEET NO. 16A

SEE SHEET NO. 16C

MATCH LINE STA. 124+00

MATCH LINE STA. 136+00

I-24

SR-50

RAMP D

I-24 WB ENT RAMP(ASPH.)

I-24 EB EXIT RAMP(ASPH.)

I-24 EB ENT RAMP(ASPH.)

I-24(ASPH.)

SR-50(ASPH.)

2-SPAN CONC. BRIDGE

Bridge ID # 31I0240001

ASPHALT

CONC.

C&G

CONTROLLED ACCESS FENCE

EXIST. CONTROLLED ACCESS FENCE

GRAVEL

GRASS/NATURAL

ASPHALT UNDISTURBED

SEPTIC ACCESS

FIELD LINES

PROPANE

T-S-B CITGO/ QUICK STOP S.W.

GAS STATION CANOPY

STAIRS FUEL

SIGN

1-S-F COMMERCIAL ABANDON

TANK MARK OUT

1-S-F EXXON

GAS STATION CANOPY

COLLAPSED BARN

FUEL PUMP

CURB

ASPH.

SINK HOLE

EIP

1P

2P1T

3P1T

CUT

FILL

TUBE

HVF

SF

S37°41'13"E

S37°40'54"E

S17°40'56"E

N52°18'47"E

125

130

135

500

505

20

15

1000'

1010'

1020'

990'

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JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

STAGE I
CLEARING AND GRUBBING

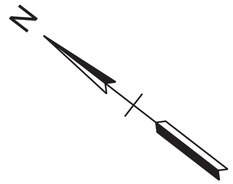
EXISTING CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

6/1/2026 1:36:26 PM
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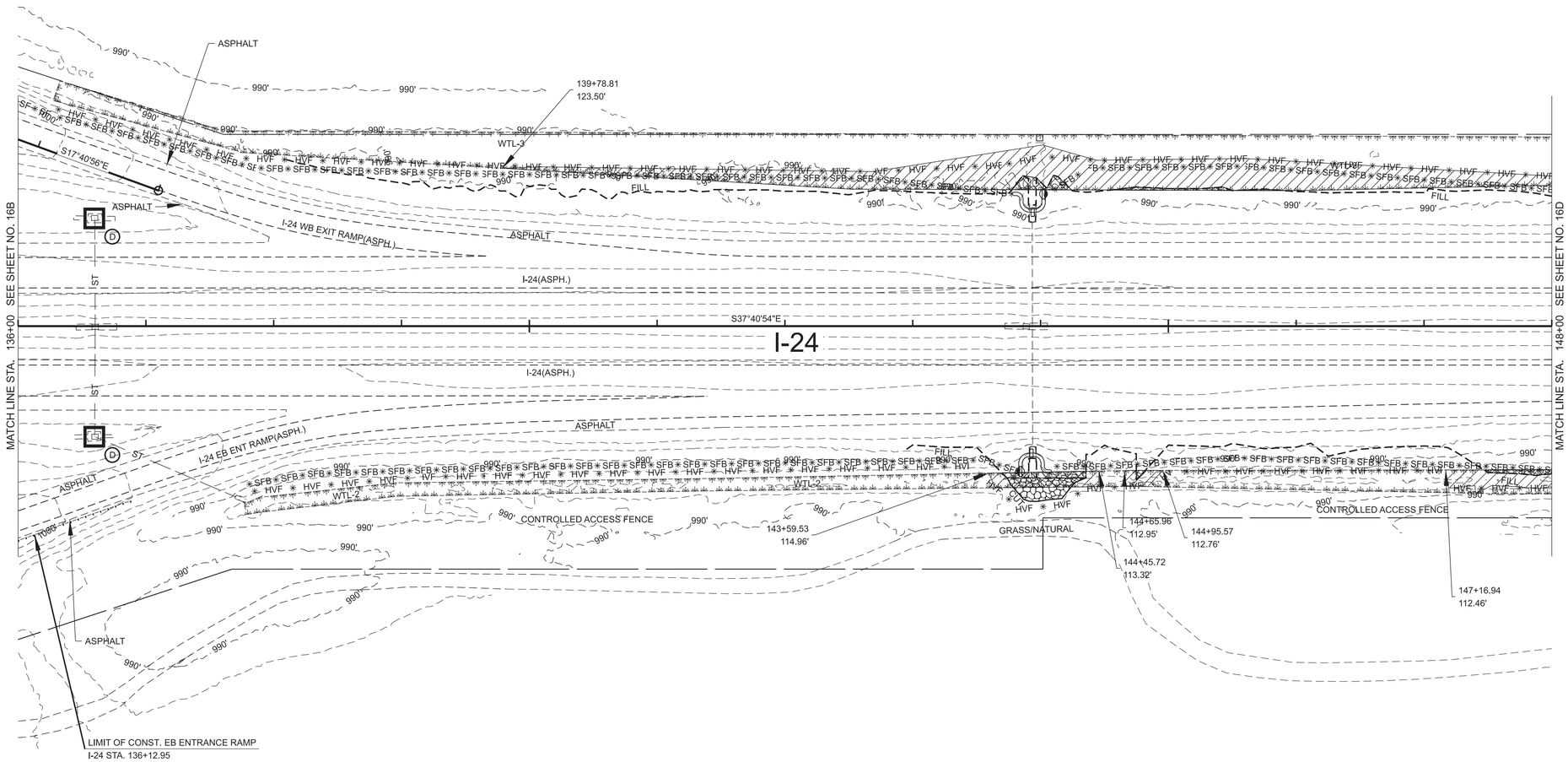
LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	16C
P.I.H.	2026	31I024-S3-002	16C
PS&E	2026	31I024-S3-002	16C



140

145



STAGE I
CLEARING AND
GRUBBING

EXISTING CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

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JOSEPH S BADYAK
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 0116290
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

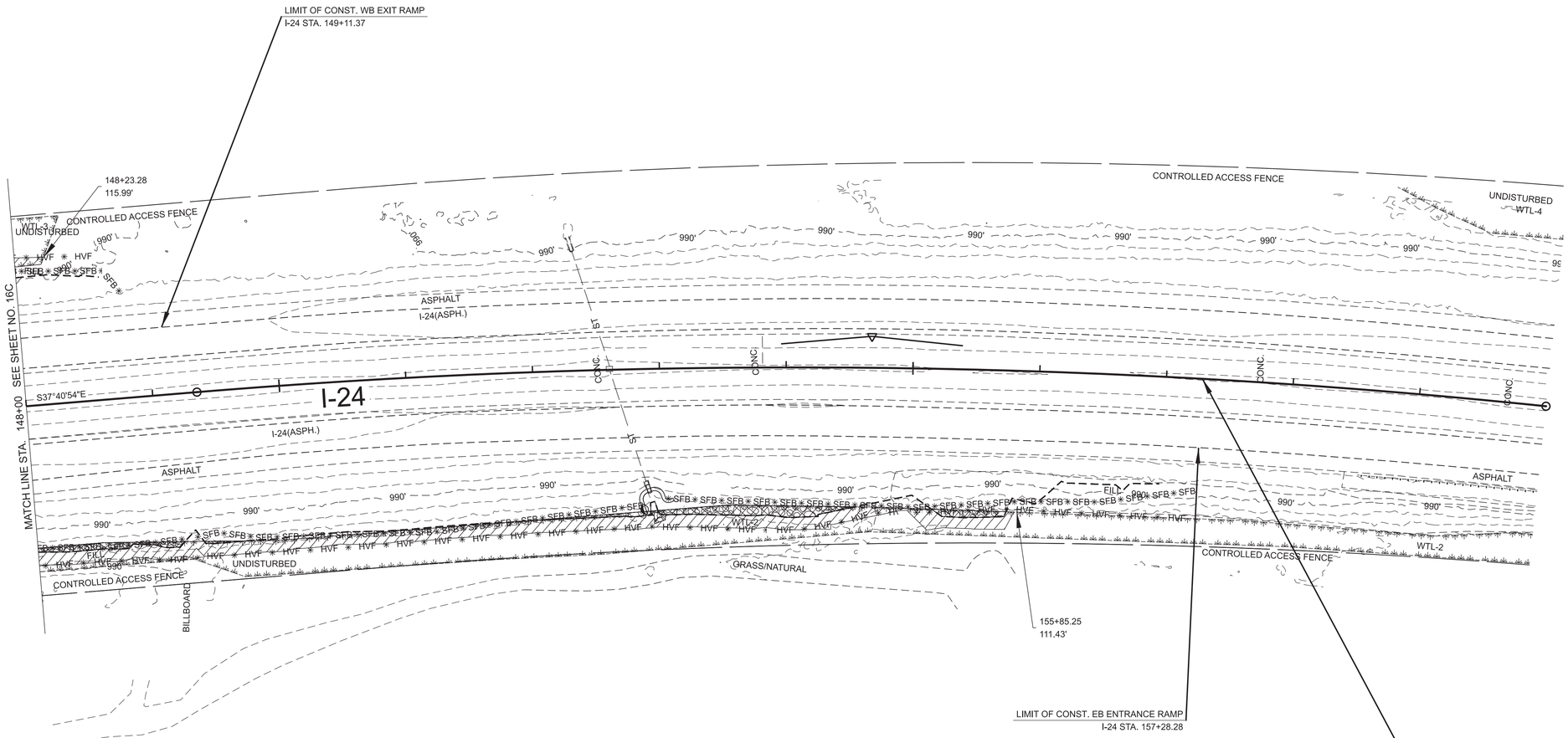
STA. 136+00.00 TO STA. 148+00.00

SCALE: 1" = 50'

6/1/2026 1:36:57 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	16D
P.I.H.	2026	31I024-S3-002	16D
PS&E	2026	31I024-S3-002	16D

LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.



END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

STAGE I
CLEARING AND
GRUBBING

EXISTING CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

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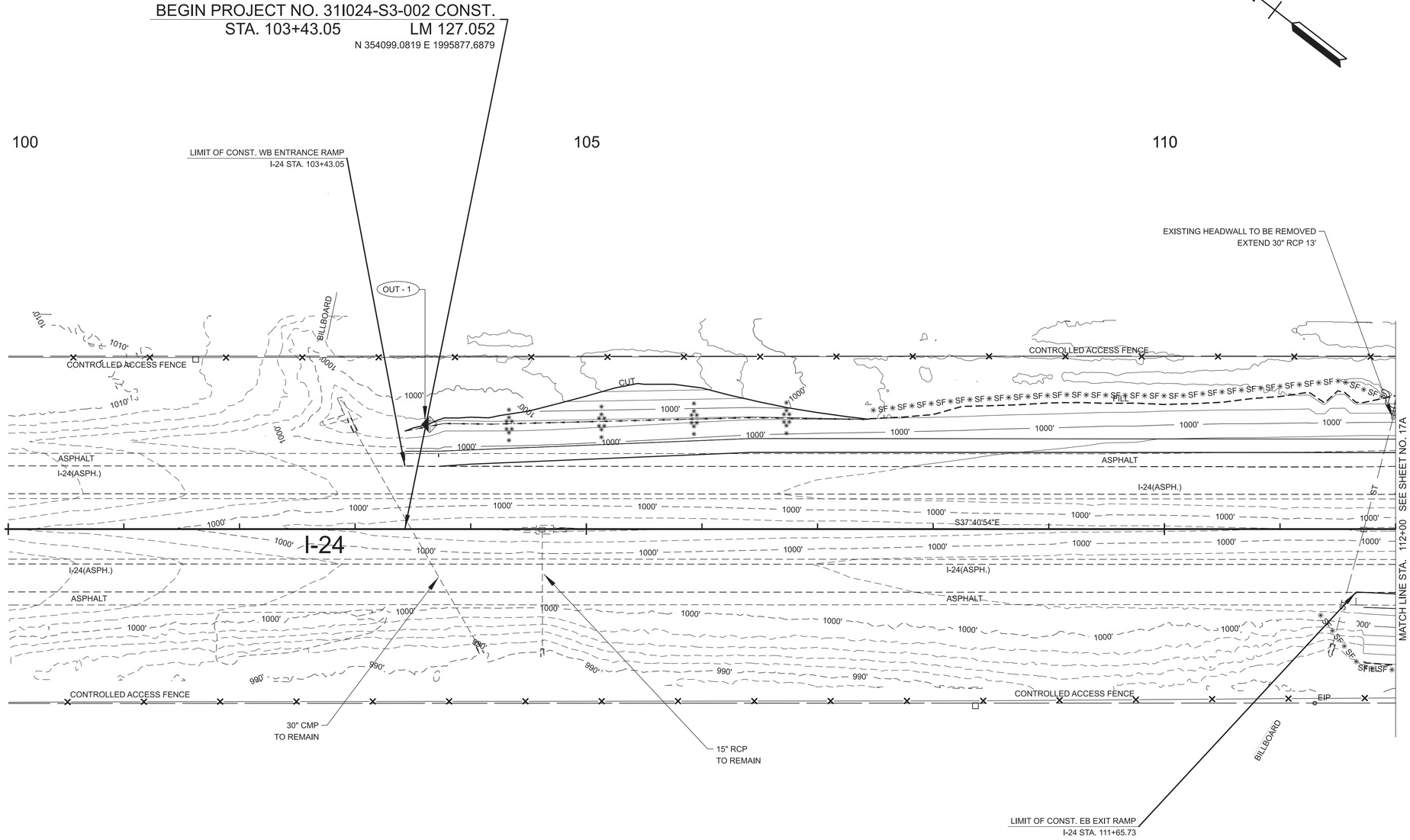
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 1:37:24 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	17
P.I.H.	2026	31I024-S3-002	17
PS&E	2026	31I024-S3-002	17



STAGE II
INTERMEDIATE

EXISTING AND PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

INTERMEDIATE CONSTRUCTION

STAGE 2 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
1	103+46.46	0.70 AC	0.11%

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AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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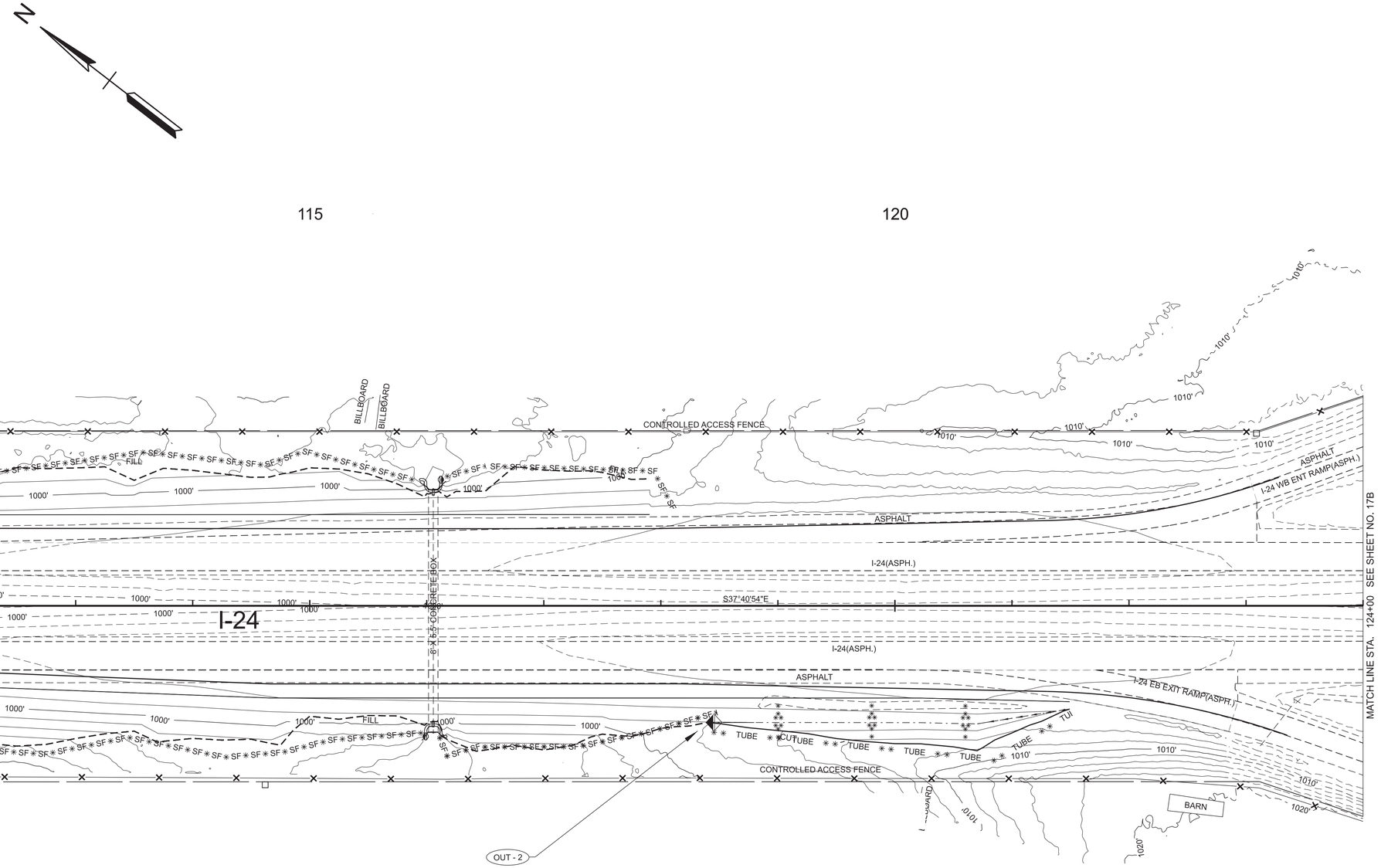
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 1:38:53 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	17A
P.I.H.	2026	31I024-S3-002	17A
PS&E	2026	31I024-S3-002	17A



STAGE II
INTERMEDIATE

EXISTING AND PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

INTERMEDIATE CONSTRUCTION			
STAGE 2 OUTFALL TABULATION			
OUTFALL	**STA**	**AREA**	**SLOPE**
2	118+31.43	0.90 AC	0.41%

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REGISTERED ENGINEER
AGRICULTURE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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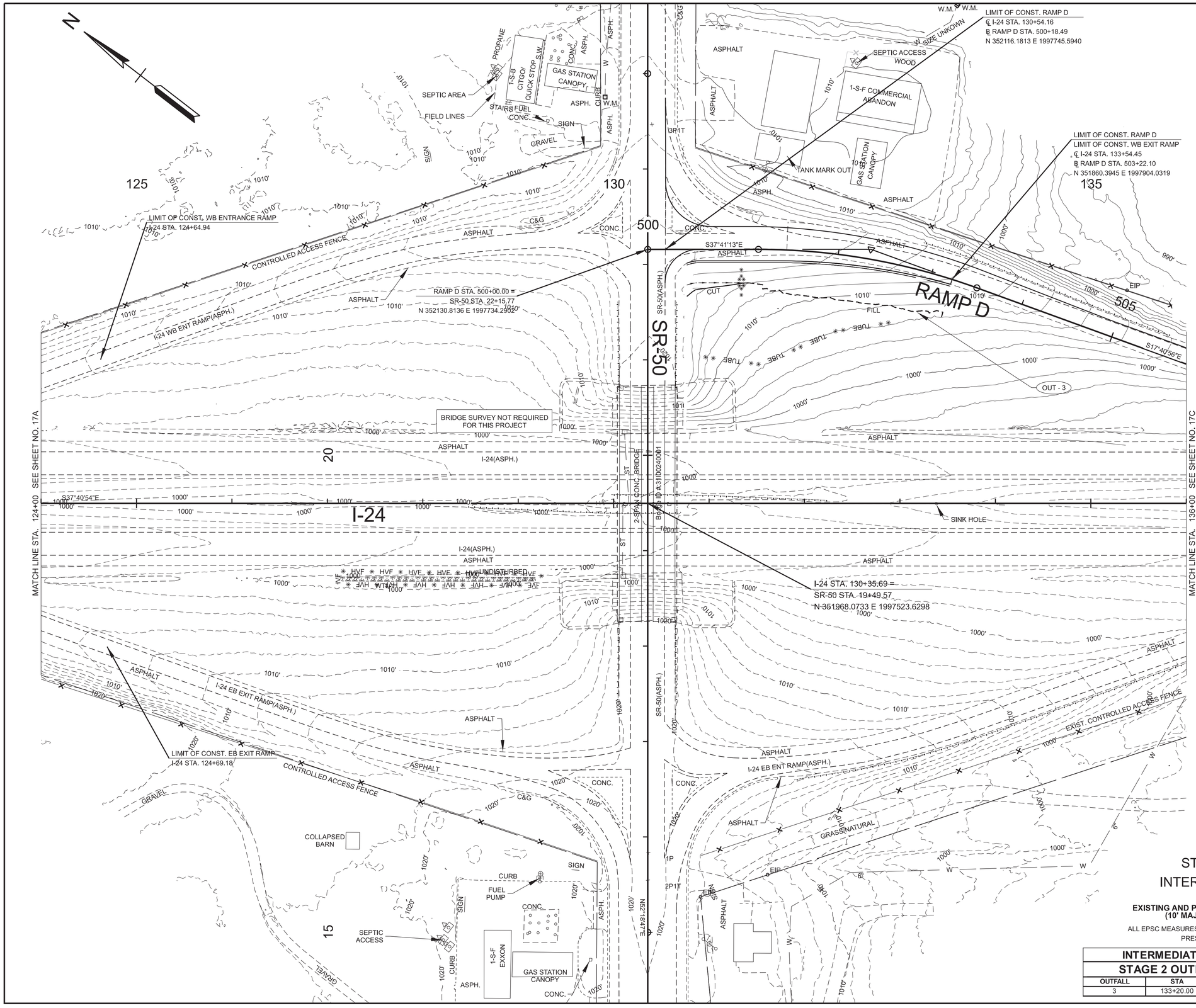
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

6/1/2026 1:39:51 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	17B
P.I.H.	2026	31I024-S3-002	17B
PS&E	2026	31I024-S3-002	17B



STAGE II
INTERMEDIATE

EXISTING AND PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

INTERMEDIATE CONSTRUCTION			
STAGE 2 OUTFALL TABULATION			
OUTFALL	**STA**	**AREA**	**SLOPE**
3	133+20.00	0.62 AC	3.50%

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

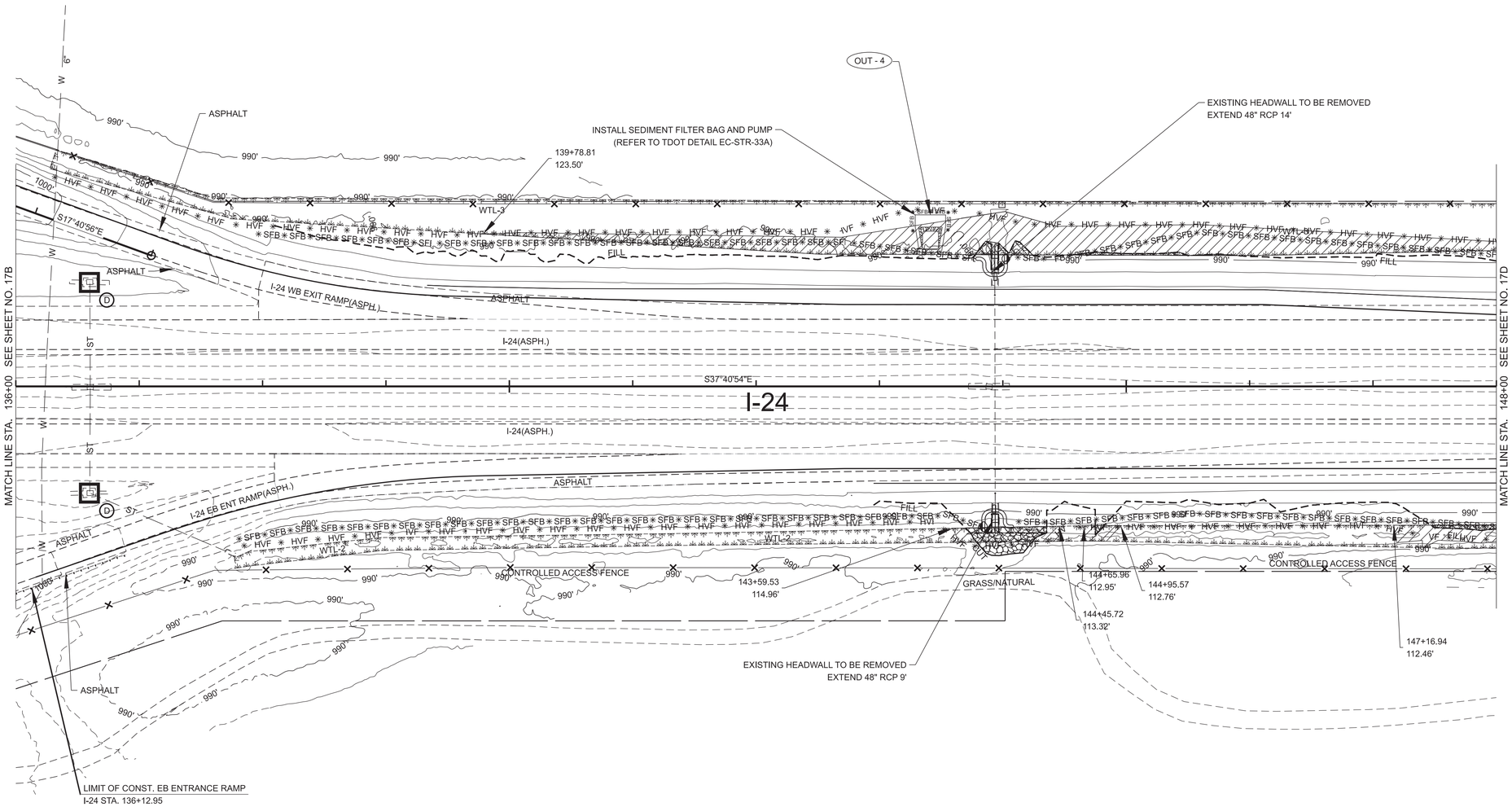
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

6/1/2026 1:40:36 PM
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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	17C
P.I.H.	2026	31I024-S3-002	17C
PS&E	2026	31I024-S3-002	17C



STAGE II

INTERMEDIATE

EXISTING AND PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

SEDIMENT FILTER BAGS SHALL BE RELOCATED TO ADJACENT AREAS ONCE SLOPE VEGETATION IS PRESENT AND STABILIZED. ALL EPSC FEATURES SHALL REMAIN WITHIN THE PRESENT R.O.W.

INTERMEDIATE CONSTRUCTION			
STAGE 2 OUTFALL TABULATION			
TFALL	**STA**	**AREA**	**SLOPE**
4	143+40.00	0.02 AC	N/A

SEALED BY

JOSEPH S BADYAK — REGISTERED ENGINEER — AGRICULTURE — No. 0116290 — STATE OF TENNESSEE

6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

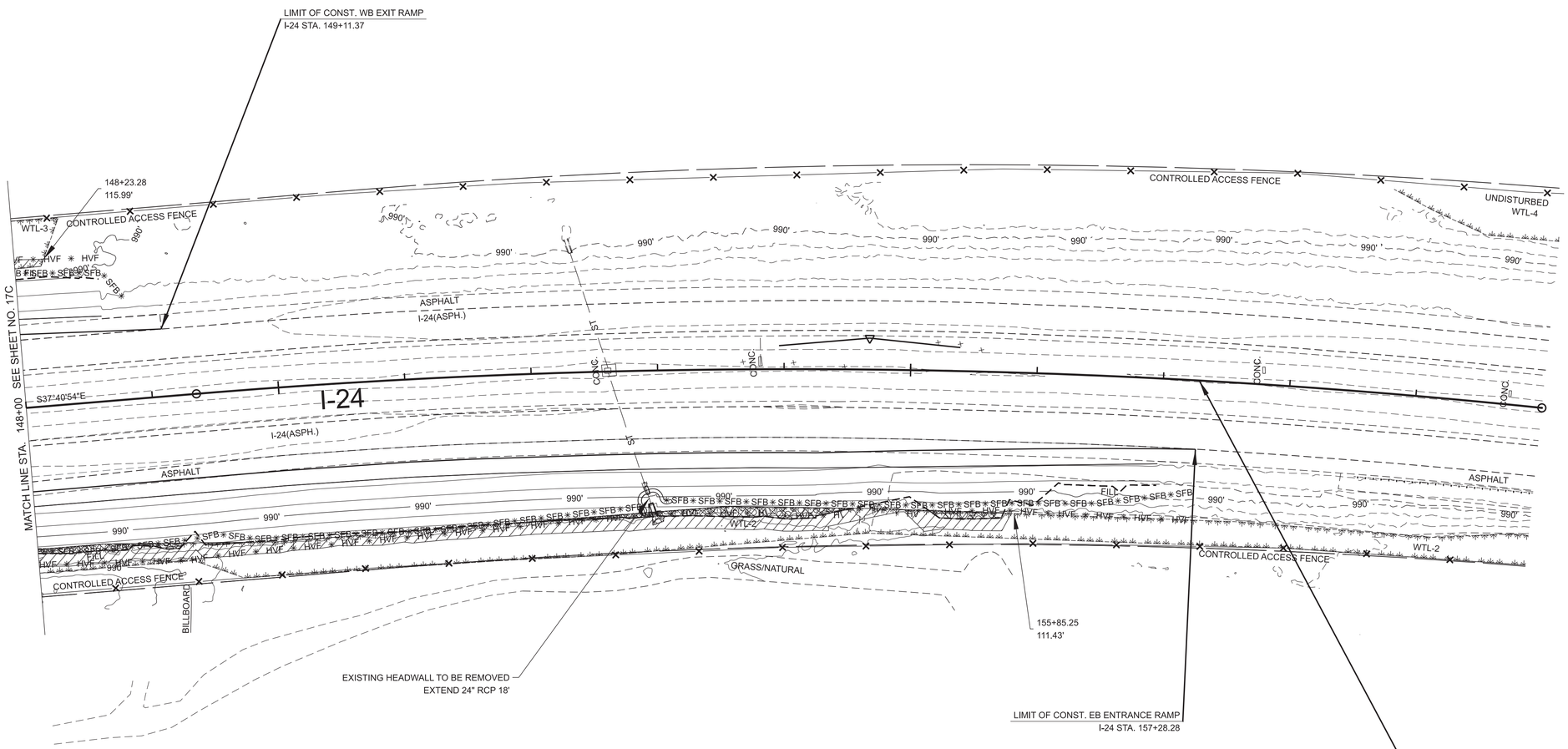
STA. 136+00.00 TO STA. 148+00.00

SCALE: 1" = 50'

6/1/2026 1:41:19 PM
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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	17D
P.I.H.	2026	31I024-S3-002	17D
PS&E	2026	31I024-S3-002	17D



END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

STAGE II
INTERMEDIATE

EXISTING AND PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
No. 0116290
TENNESSEE
STATE OF TENNESSEE
6/1/2026

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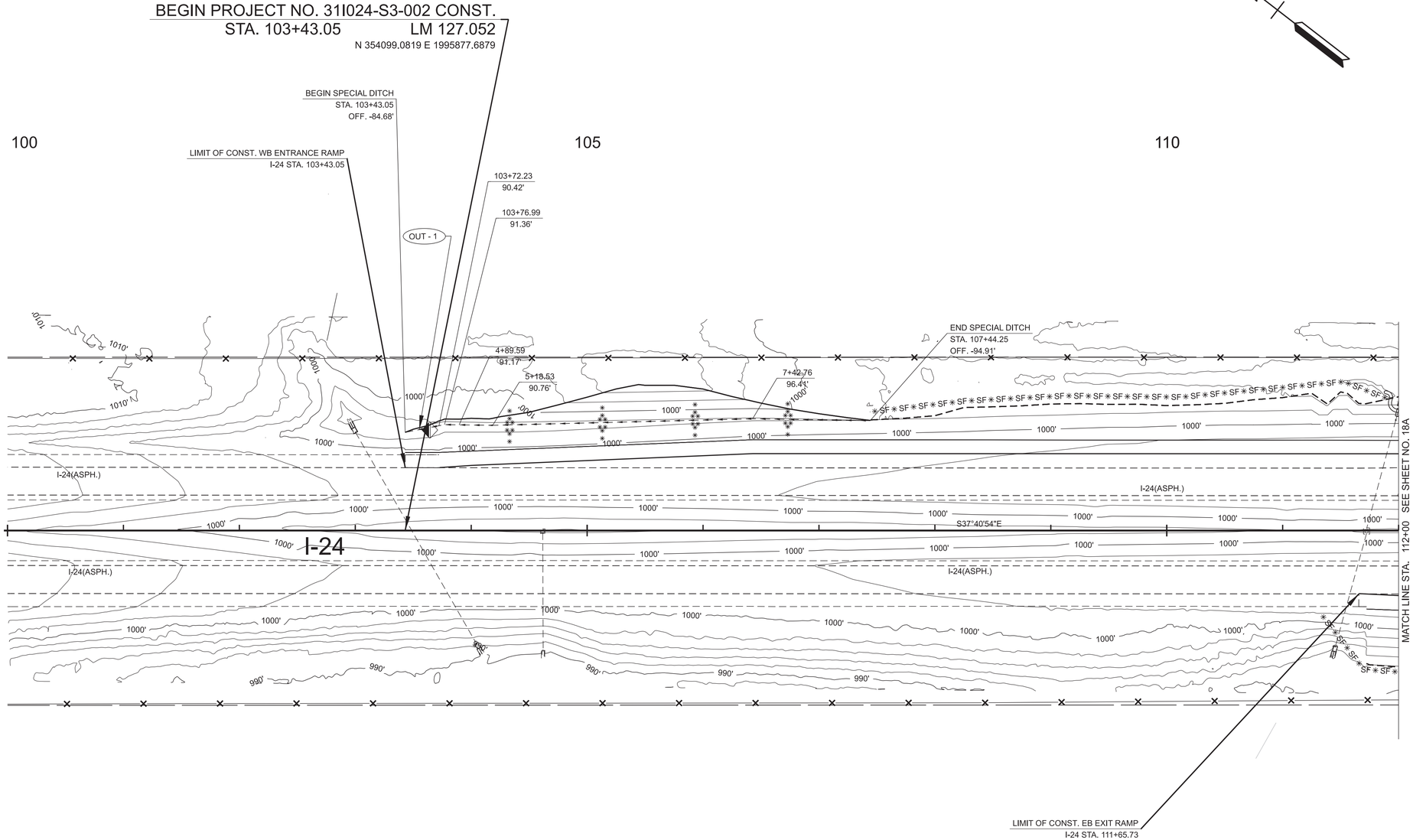
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 1:41:55 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1332953.00_WORKSETI\DGN\31I024-SHT-EPSC-II.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	18
P.I.H.	2026	31I024-S3-002	18
PS&E	2026	31I024-S3-002	18



STAGE III
FINAL CONSTRUCTION

PROPOSED CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

FINAL CONSTRUCTION

STAGE 3 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
1	103+46.46	0.70 AC	0.11%

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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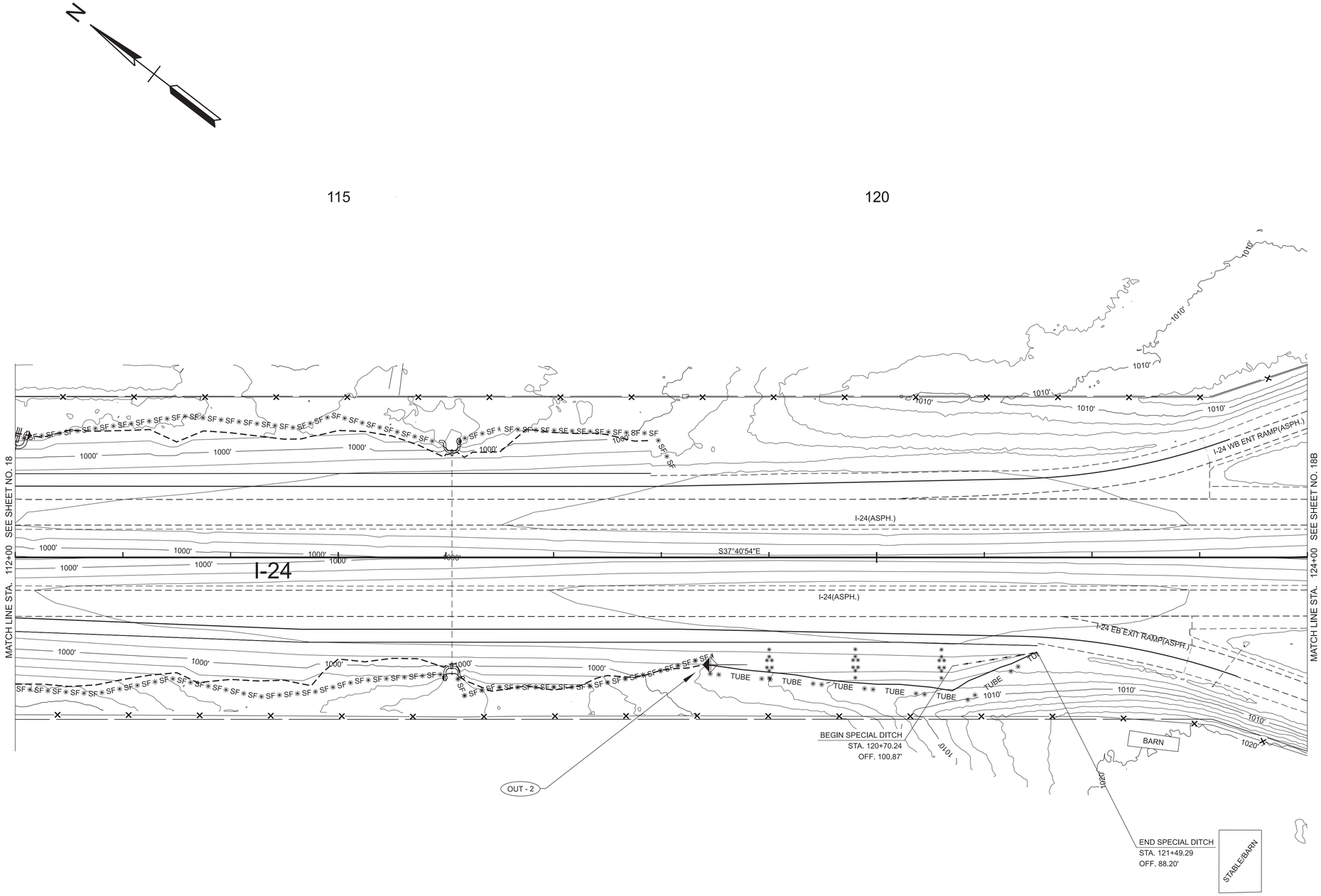
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

6/1/2026 1:42:54 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	18A
P.I.H.	2026	31I024-S3-002	18A
PS&E	2026	31I024-S3-002	18A



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No. 0116290
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

STAGE III
FINAL CONSTRUCTION

PROPOSED CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

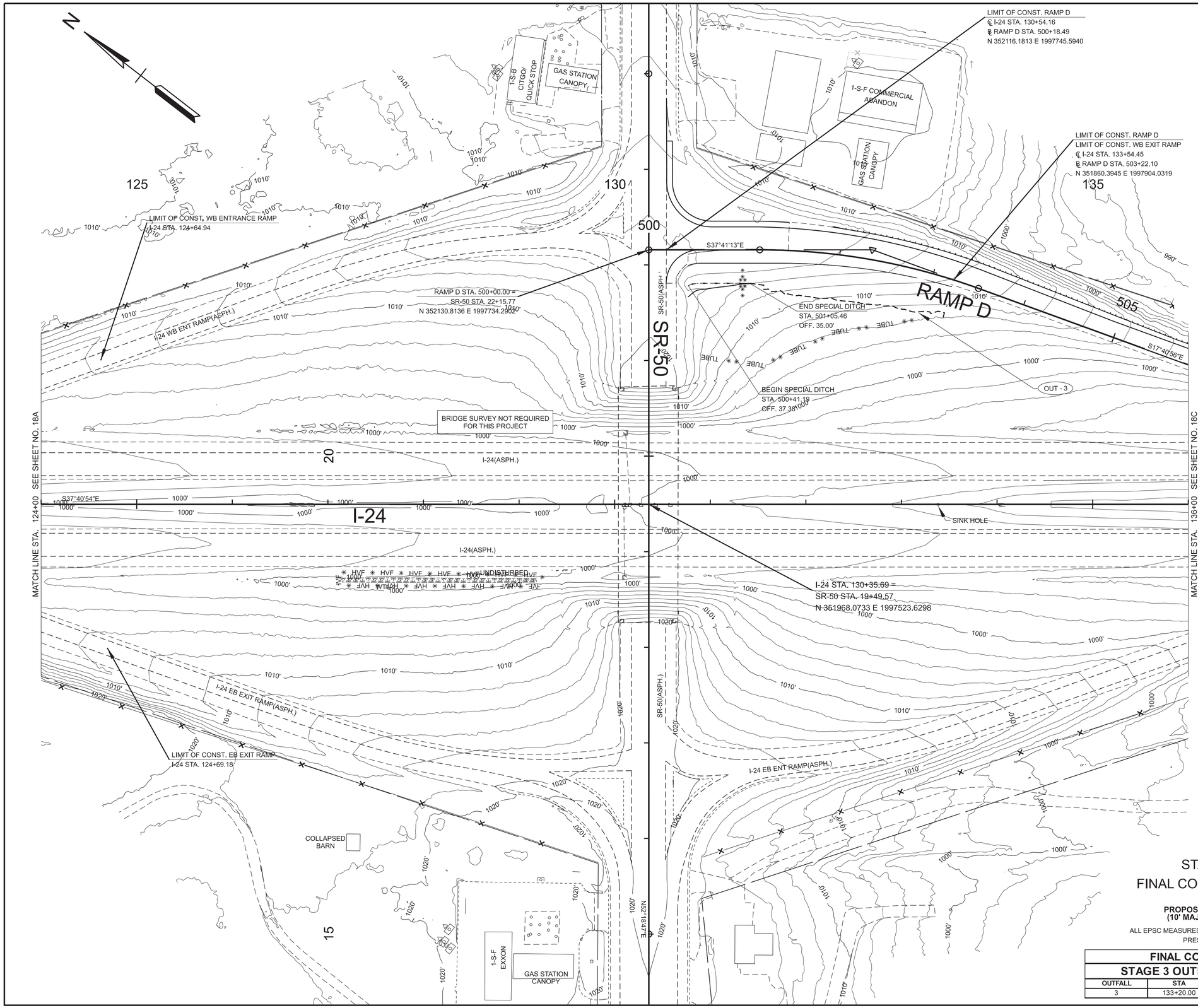
FINAL CONSTRUCTION

STAGE 3 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
2	118+31.43	0.90 AC	0.41%

6/1/2026 1:43:38 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	18B
P.I.H.	2026	31I024-S3-002	18B
PS&E	2026	31I024-S3-002	18B



STAGE III
FINAL CONSTRUCTION

PROPOSED CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

FINAL CONSTRUCTION

STAGE 3 OUTFALL TABULATION

OUTFALL	STA	AREA	SLOPE
3	133+20.00	0.62 AC	3.50%

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No. 0116290
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

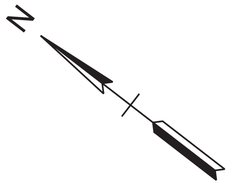
STA. 124+00.00 TO STA. 136+00.00

SCALE: 1" = 50'

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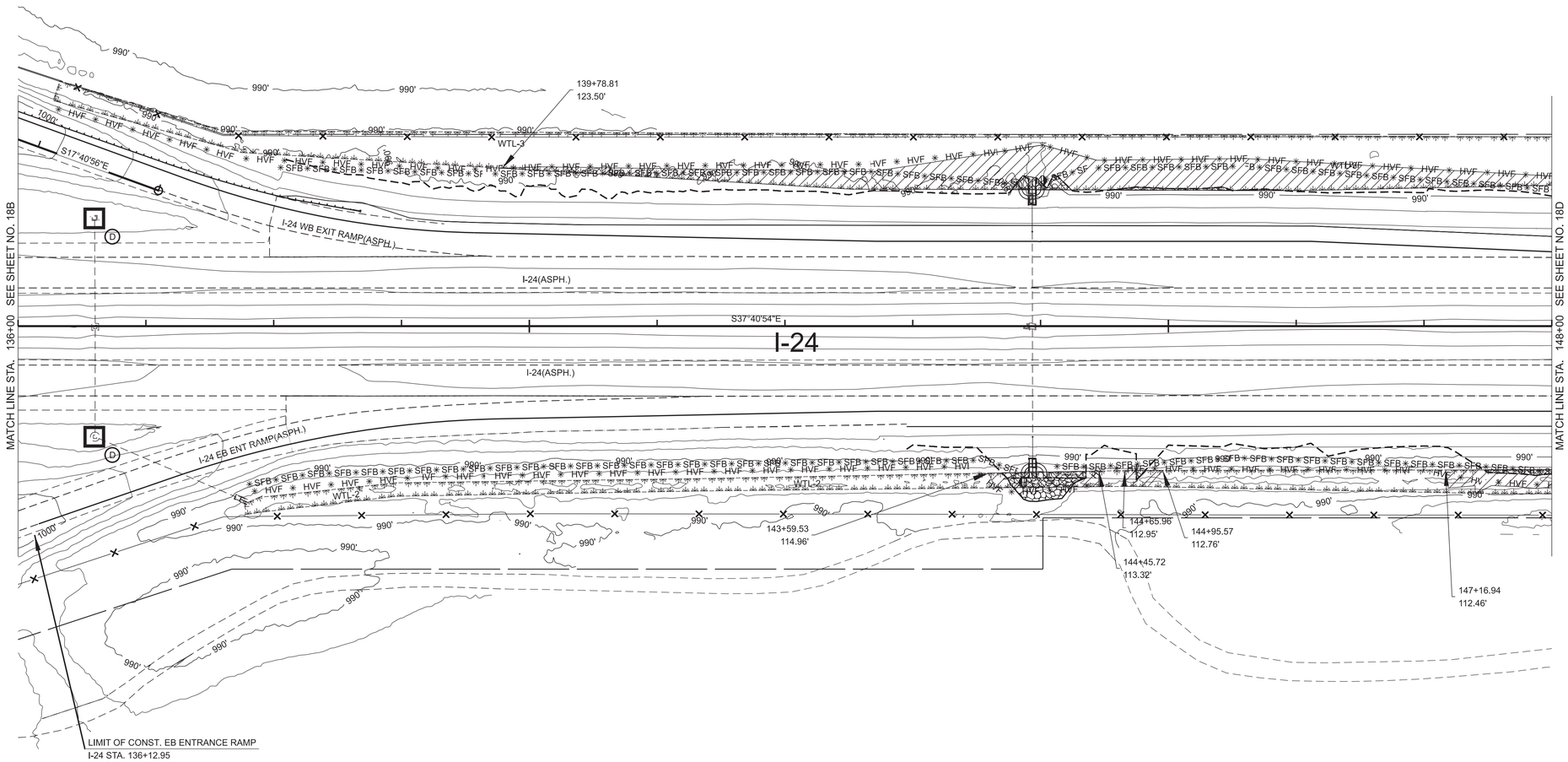
LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	18C
P.I.H.	2026	31I024-S3-002	18C
PS&E	2026	31I024-S3-002	18C



140

145

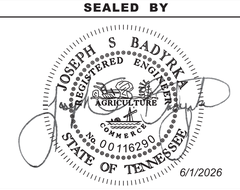


STAGE III
FINAL CONSTRUCTION

PROPOSED CONTOURS
(10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

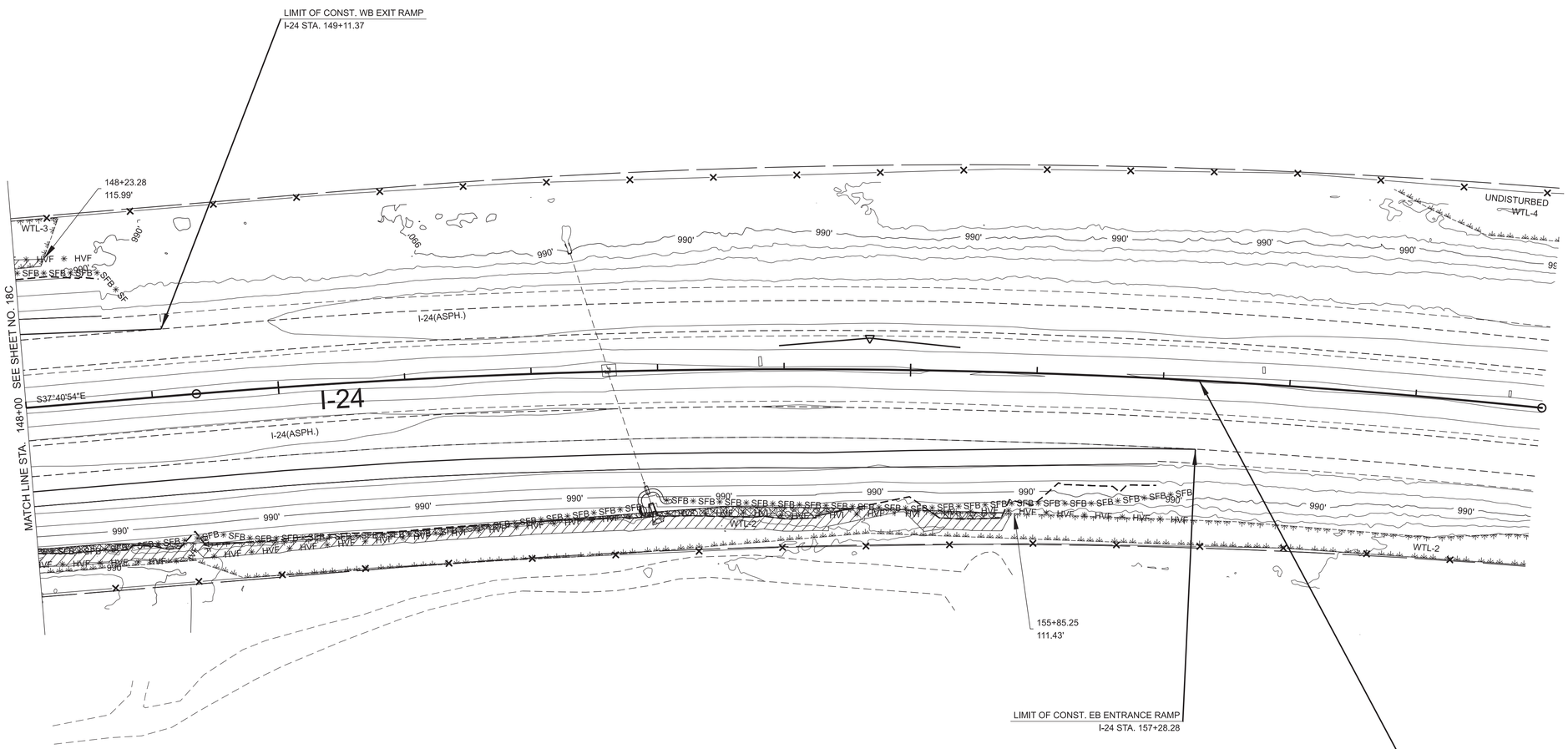
STA. 136+00.00 TO STA. 148+00.00

SCALE: 1" = 50'

6/1/2026 1:44:46 PM
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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	18D
P.I.H.	2026	31I024-S3-002	18D
PS&E	2026	31I024-S3-002	18D



END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

STAGE III
FINAL CONSTRUCTION

PROPOSED CONTOURS (10' MAJOR, 2' MINOR)

ALL EPSC MEASURES SHALL BE LOCATED INSIDE PRESENT R.O.W.

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
TENNESSEE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 1:45:10 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	19

BEGIN PROJECT NO. 31I024-S3-002 CONST.
STA. 103+43.05 LM 127.052
N 354099.0819 E 1995877.6879

100

105

110

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 103+43.05

PVMT. MKNG. TRANSITION
STA. 103+72.23
0' LANE LT.
12' SHLD. LT.

PVMT. MKNG. TRANSITION
STA. 106+42.81
12' LANE LT.
12' SHLD. LT.

6" SSWL

6" SDWL
2' W/ 4' SPACING

TO REMAIN
Coffee Co

TO REMAIN
WEST
I-24
MILE
127
.0

S37°40'54"E

I-24

MATCH LINE STA. 112+00 SEE SHEET NO. 20

EAST
I-24
MILE
127
.0
TO REMAIN

Grundy Co
TO REMAIN

"EXIT 127 RECREATION"
TO REMAIN

PVMT. MKNG. TRANSITION
STA. 111+65.73
0' LANE RT.
11' SHLD. RT.

6" SDWL
3' W/ 9' SPACING
6" SSWL

"EXIT 127"
1 TO BE RELOCATED

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 111+65.73

NOTE:
SEE SIGN REMOVAL & RELOCATION TABLE ON SHEET 2F FOR SIGN PLACEMENT.

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JOSEPH S BADYRKA
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AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
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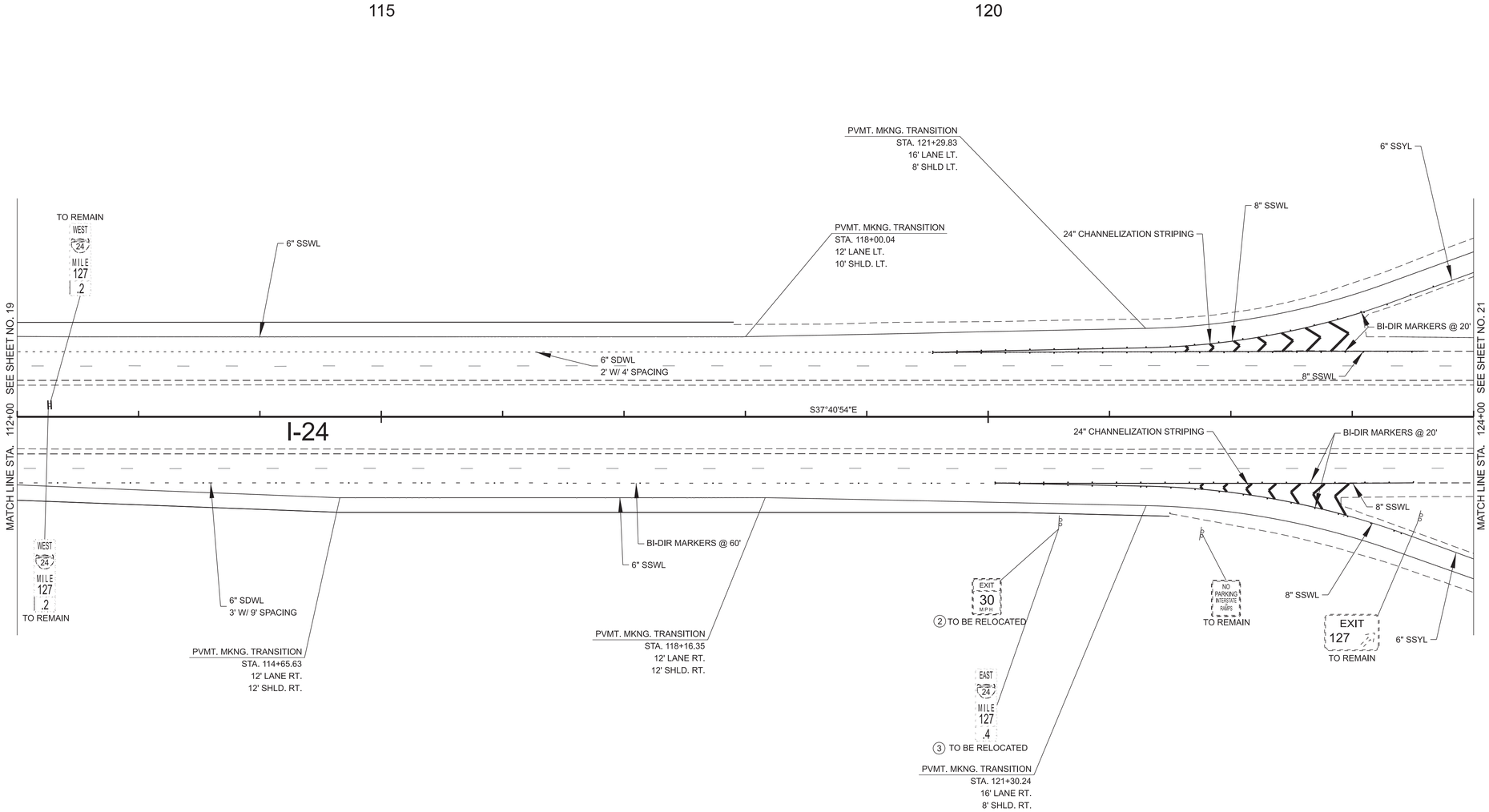
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

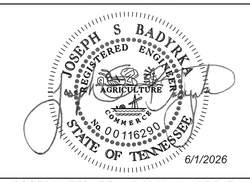
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	20



NOTE:
SEE SIGN REMOVAL & RELOCATION TABLE ON SHEET 2F FOR SIGN PLACEMENT.

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

6/1/2026 1:48:07 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	21

N

125

130

135

500

505

SR-50

RAMP D

I-24

20

15

S37°40'54"E

S17°40'56"E

S37°41'13"E

N52°18'47"E

MATCH LINE STA. 124+00 SEE SHEET NO. 20

MATCH LINE STA. 136+00 SEE SHEET NO. 22

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

PVMT. MKNG. TRANSITION
STA. 501+16.04
12' RT TURN LANE

PVMT. MKNG. TRANSITION
STA. 504+93.91
0' RT TURN LANE

47.5' R

35' R

RED AND WHITE
BI-DIRECTIONAL SPRM
@ 2' O.C.

24" STOP LINE

6" SSWL CONTRAST

6" SSYL

6" SDWL CONTRAST

WRONG WAY ARROW

"TRAILHEADS" TO REMAIN

"TIMS FORD STATE PARK" TO BE REMOVED AND RESET

"I-24 WEST TO NASHVILLE" TO REMAIN

"GAS | CAMPING" TO REMAIN

"ATTRACTION" TO REMAIN

"I-24 EAST TO CHATTANOOGA" TO REMAIN

R3-2 24" X 24"

R3-1 24" X 24"

TO REMAIN

TO BE RELOCATED (5)

TO BE RELOCATED (6)

TO BE RELOCATED (7)

TO BE REMOVED

DECHERD / PELHAM — TO REMAIN

WINCHESTER / ALTAMONT — TO REMAIN

ALTAMONT / WINCHESTER — TO REMAIN

PELHAM / DECHERD — TO REMAIN

EAST 24 MILE 127.6 — TO REMAIN

WEST 24 MILE 127.6 — TO REMAIN

PEDESTRIANS NON-MOTORIZED TRAFFIC MOTOR DRIVEN CYCLES PROHIBITED — TO REMAIN

RIGHT LANE MUST TURN RIGHT — TO REMAIN

NOTE:
SEE SIGN REMOVAL & RELOCATION TABLE ON SHEET 2F FOR SIGN PLACEMENT.

SEALED BY

JOSEPH S BADYRA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 0116290 — STATE OF TENNESSEE

6/1/2026

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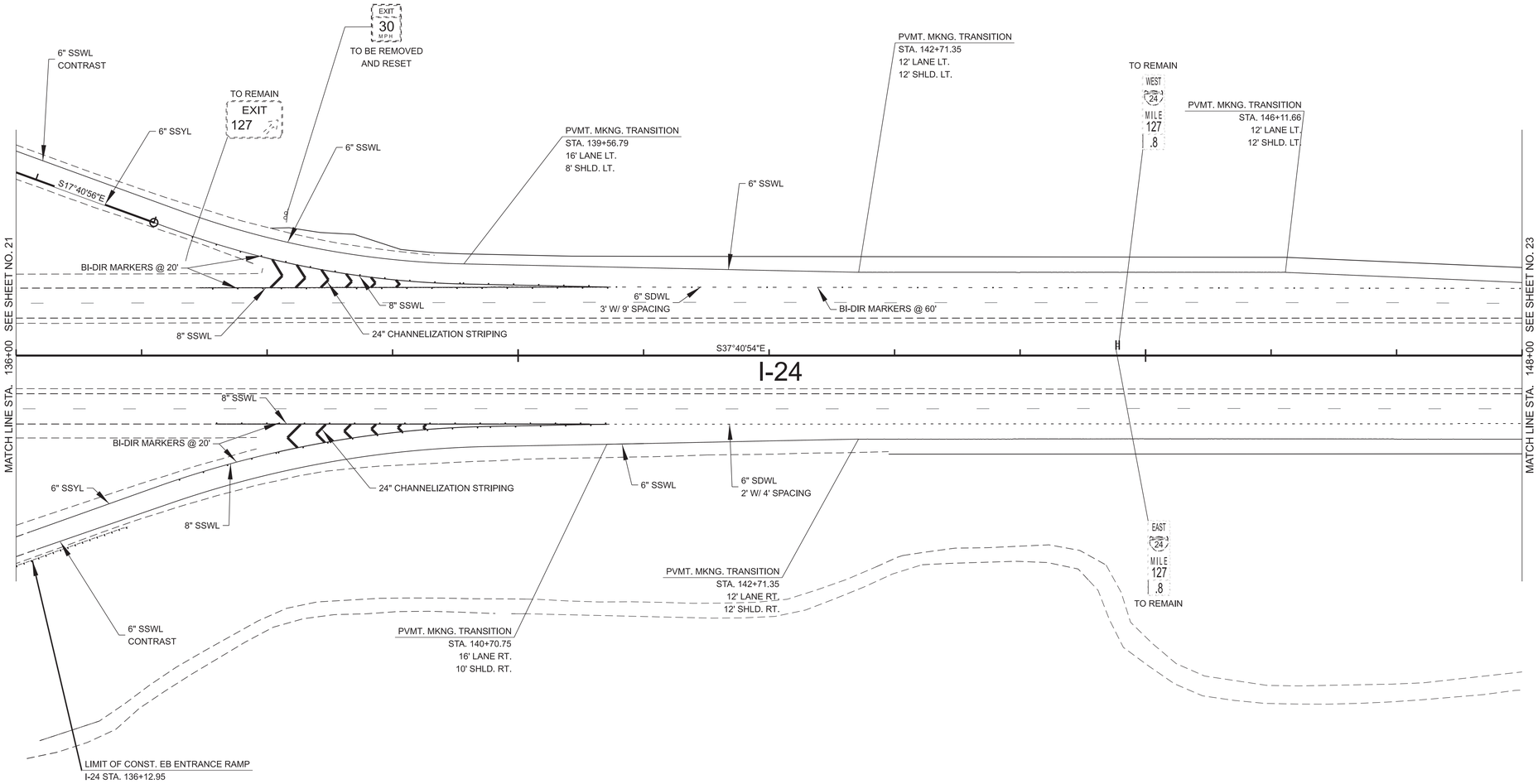
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

6/1/2026 1:49:00 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	22



NOTE:
SEE SIGN REMOVAL & RELOCATION TABLE ON SHEET 2F FOR SIGN PLACEMENT.

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

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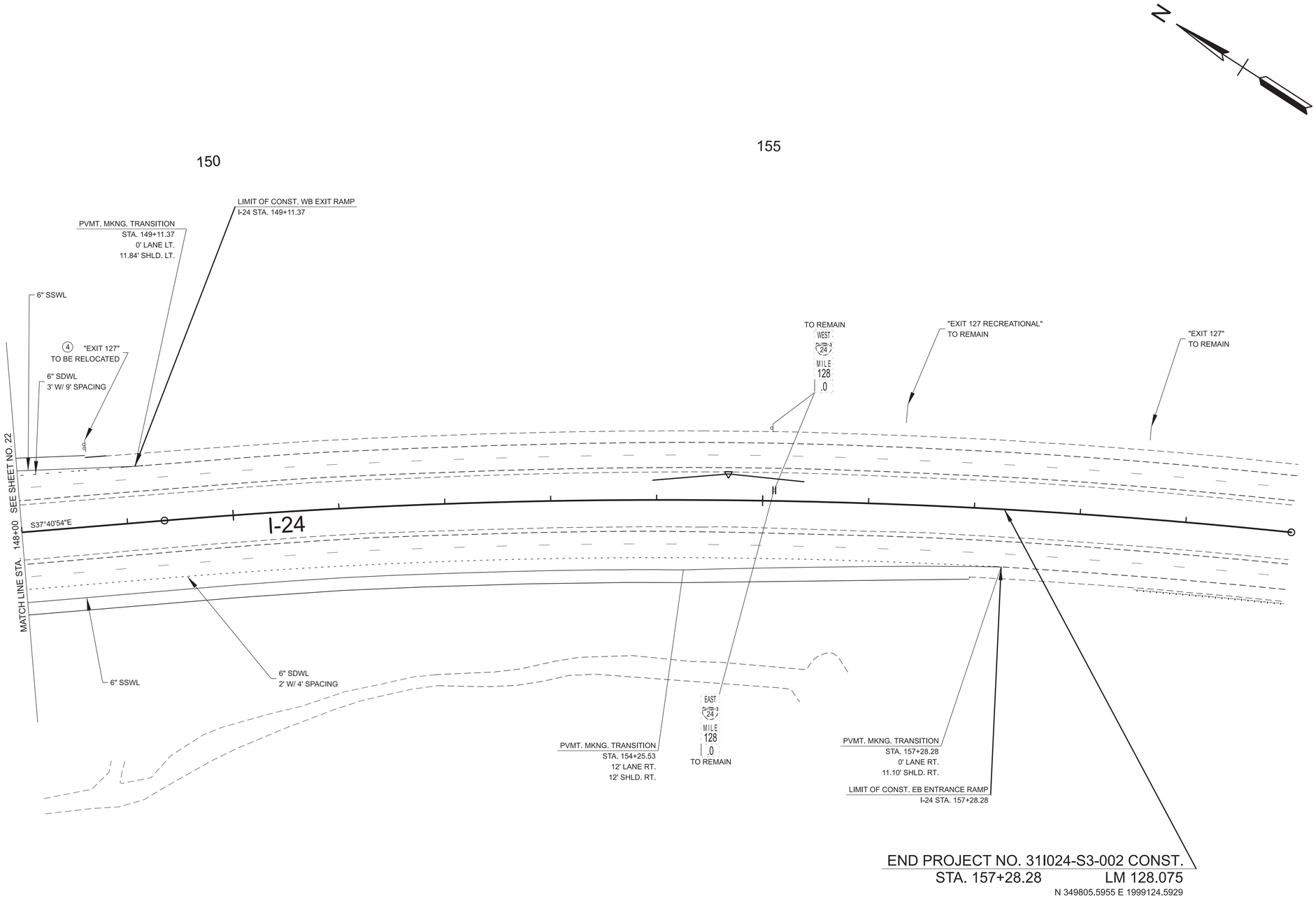
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLANS

STA. 136+00.00 TO STA. 148+00.00
SCALE: 1" = 50'

6/1/2026 1:50:47 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	23



END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

NOTE:
SEE SIGN REMOVAL & RELOCATION TABLE ON SHEET 2F FOR SIGN PLACEMENT.

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STATE OF TENNESSEE
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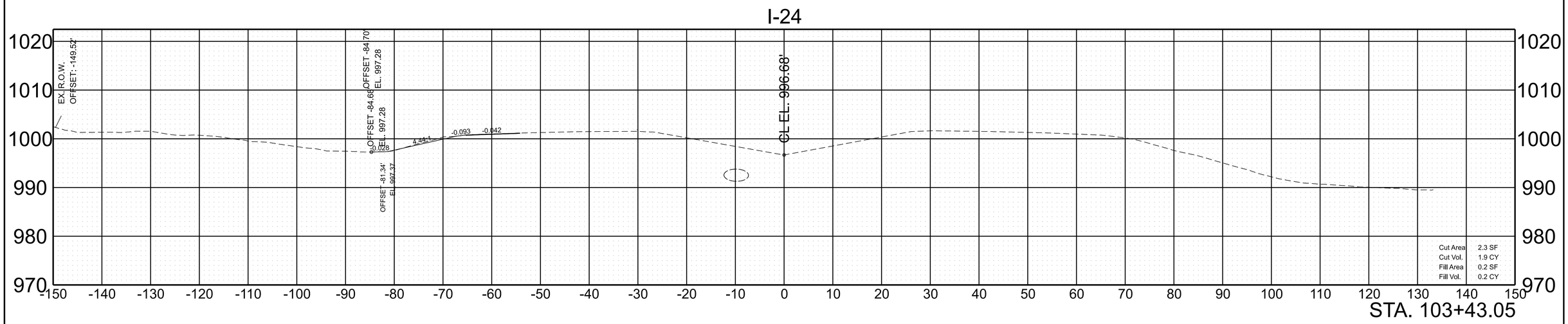
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

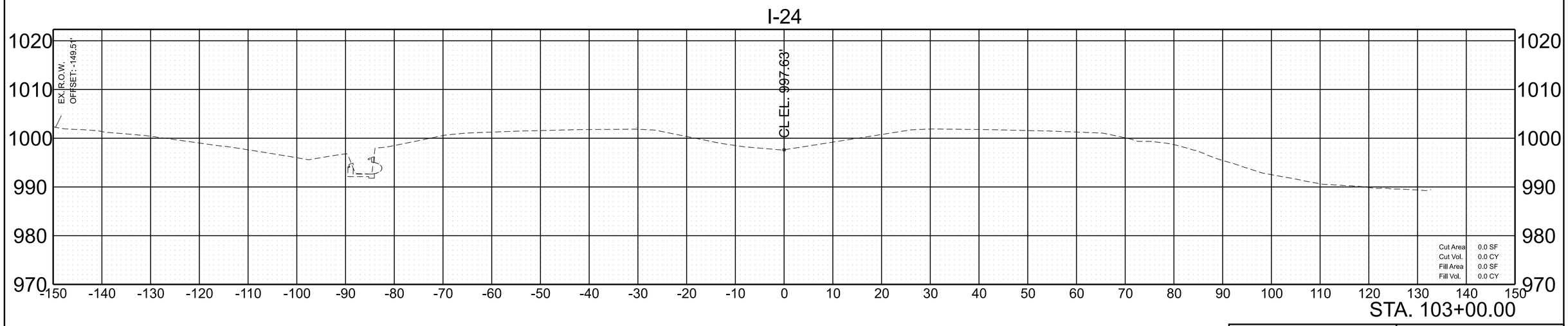
SIGNING AND PAVEMENT MARKING PLANS

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

6/1/2026 1:51:19 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	19
P.I.H.	2026	31I024-S3-002	19
PS&E	2026	31I024-S3-002	24

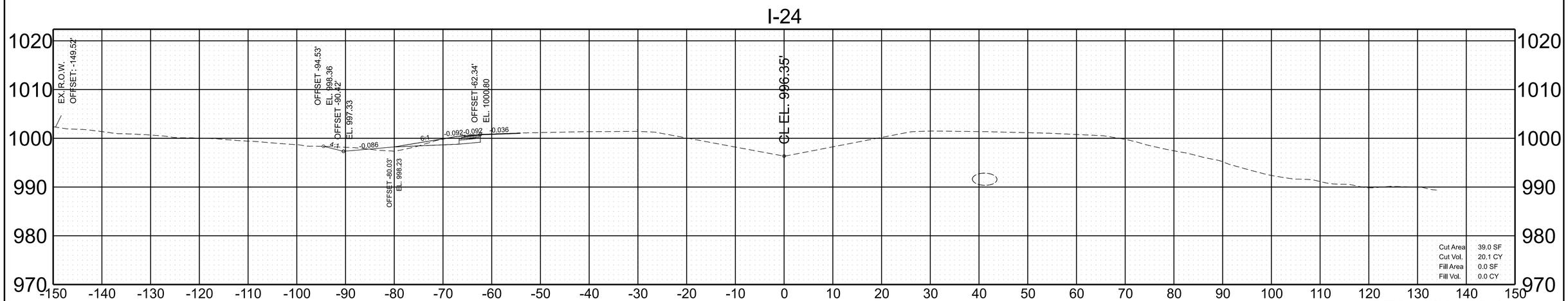


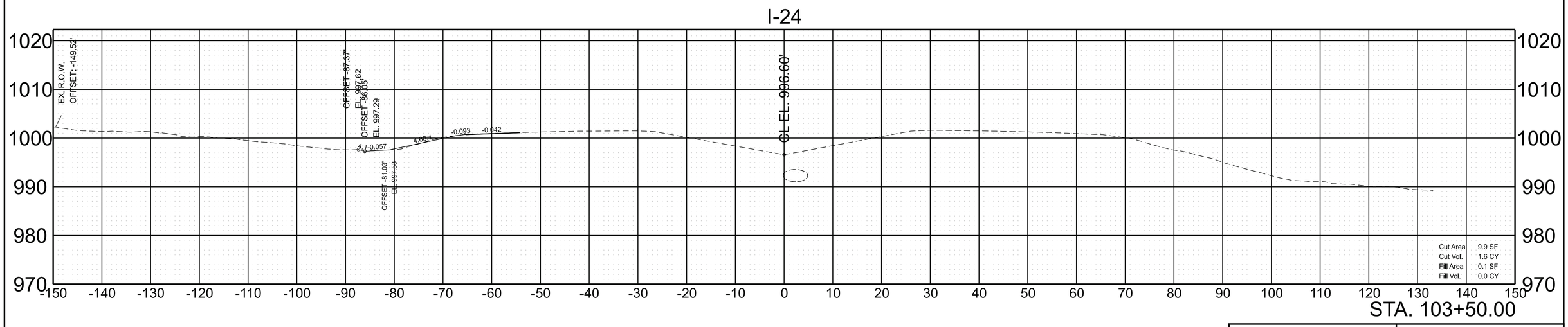


SCALE:	1"=10' HORIZ.	BEGIN STA. 103+00.00
	1"=10' VERT.	END STA. 103+43.05

5/29/2026 9:51:48 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I32953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	20
P.I.H.	2026	31I024-S3-002	20
PS&E	2026	31I024-S3-002	25

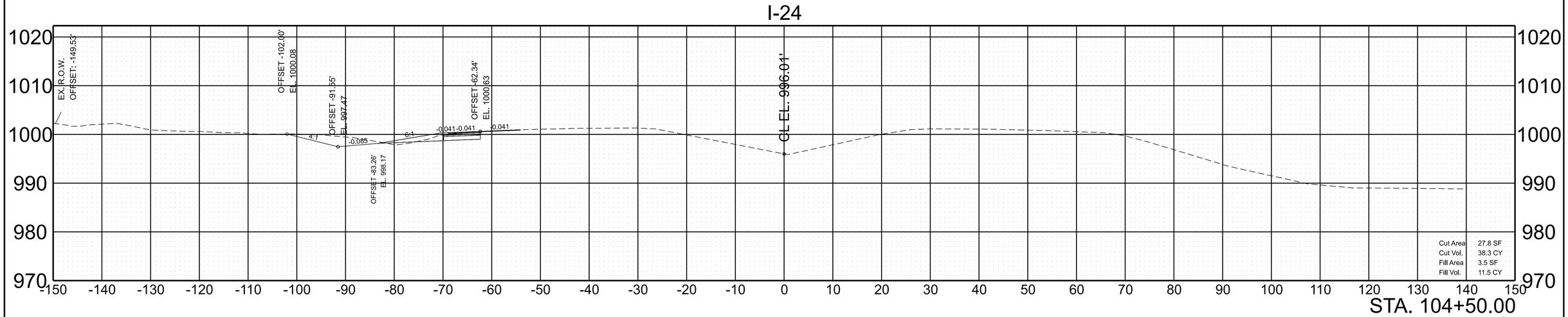


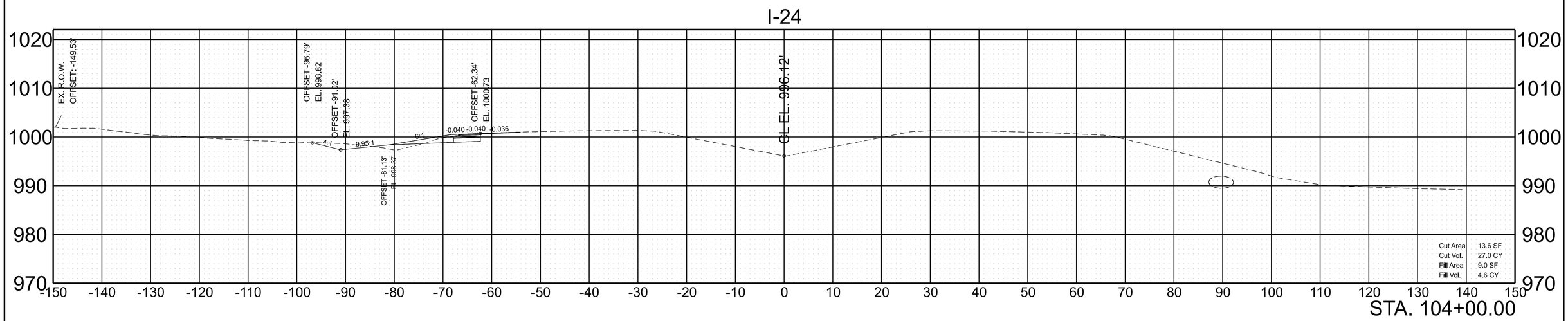


SCALE:	1"=10' HORIZ.	BEGIN STA. 103+50.00
	1"=10' VERT.	END STA. 103+72.23

5/29/2026 9:51:52 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I32953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	21
P.I.H.	2026	31I024-S3-002	21
PS&E	2026	31I024-S3-002	26

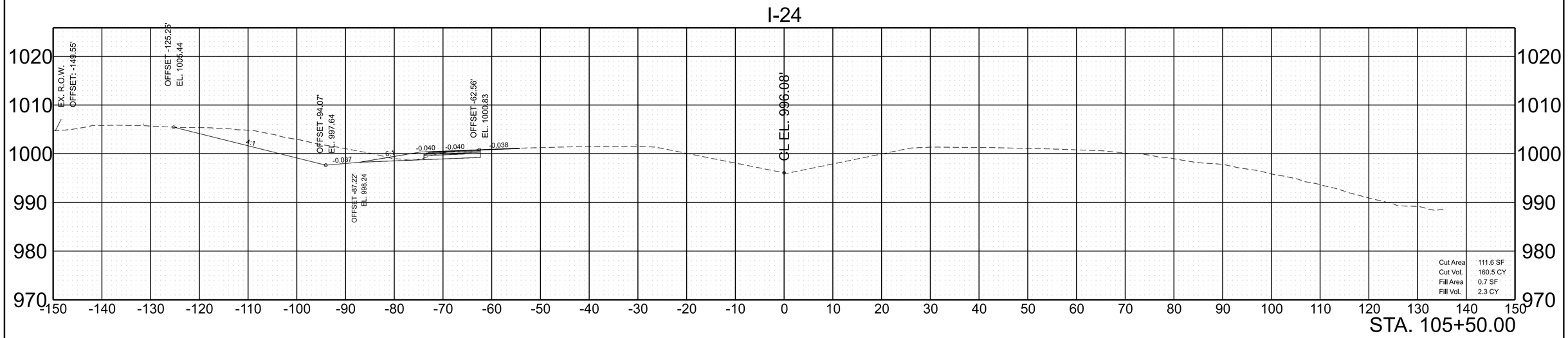


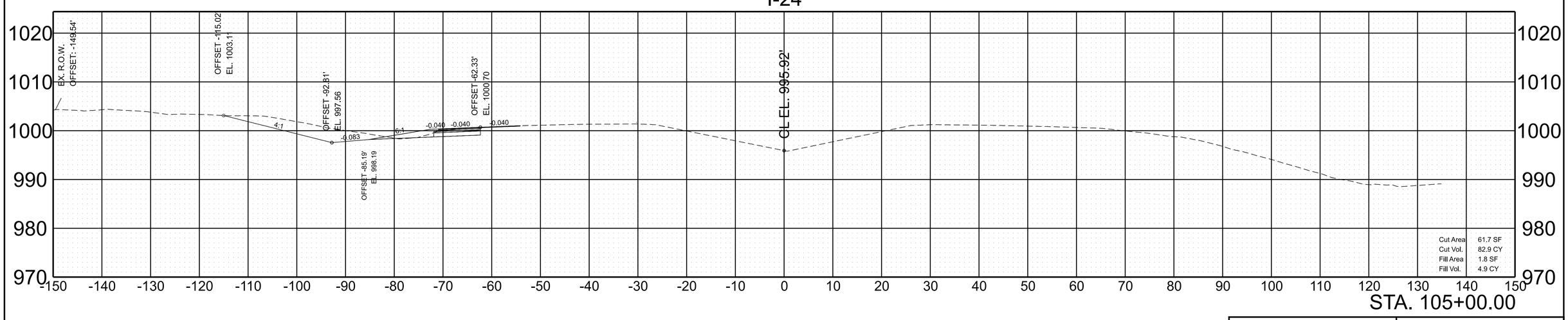


SCALE:	1"=10' HORIZ.	BEGIN STA. 104+00.00
	1"=10' VERT.	END STA. 104+50.00

5/29/2026 9:51:54 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\13329530.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	22
P.I.H.	2026	31I024-S3-002	22
PS&E	2026	31I024-S3-002	27

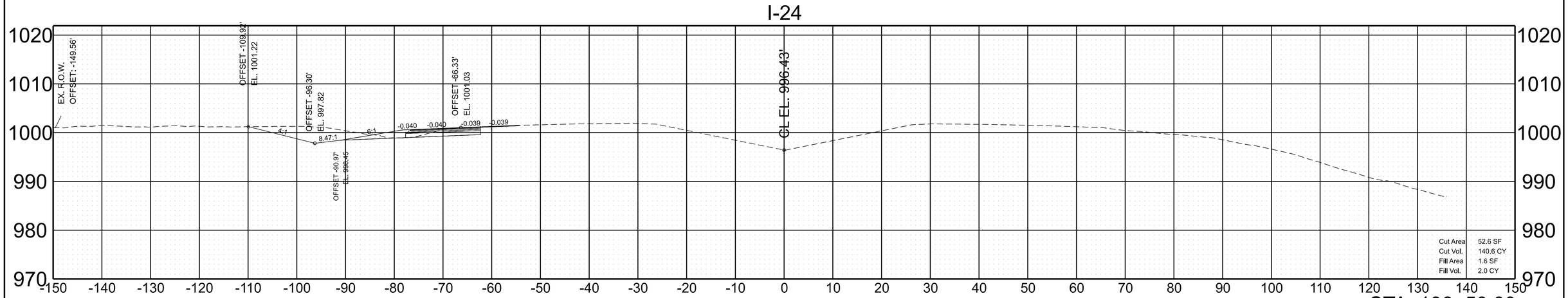


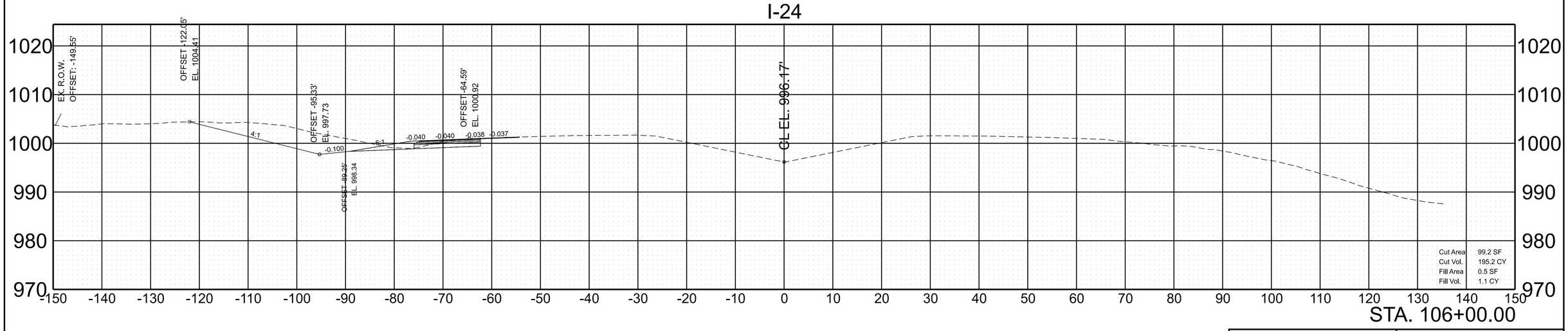


SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 105+00.00 END STA. 105+50.00

5/29/2026 9:51:56 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1329530.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	23
P.I.H.	2026	31I024-S3-002	23
PS&E	2026	31I024-S3-002	28

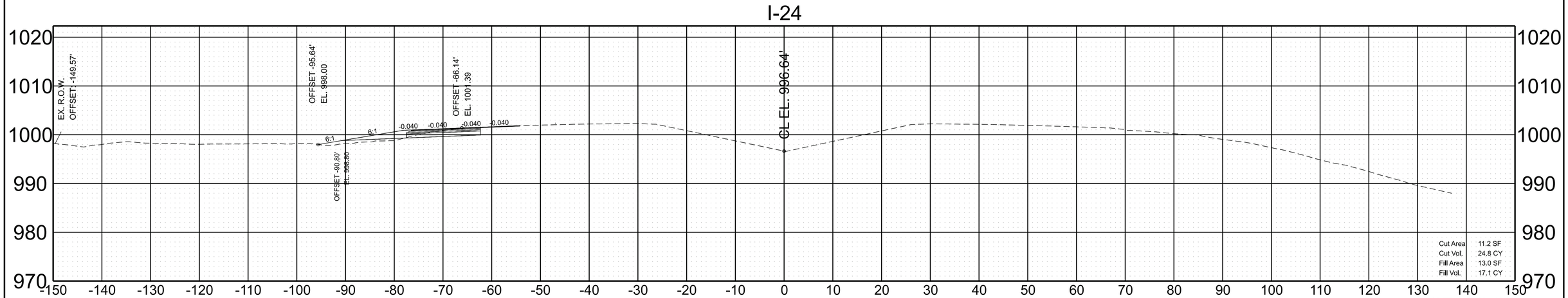


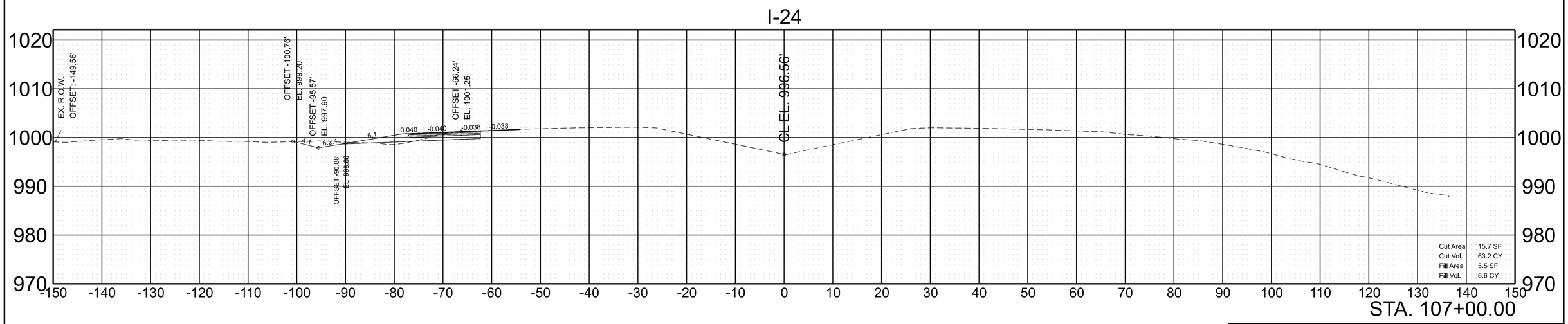


SCALE:	1"=10' HORIZ.	BEGIN STA. 106+00.00
	1"=10' VERT.	END STA. 106+50.00

5/29/2026 9:51:58 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I3132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	24
P.I.H.	2026	31I024-S3-002	24
PS&E	2026	31I024-S3-002	29

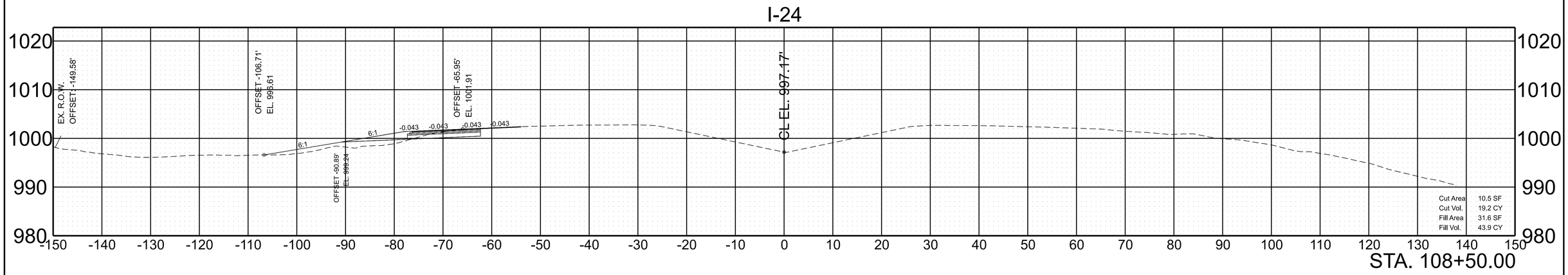


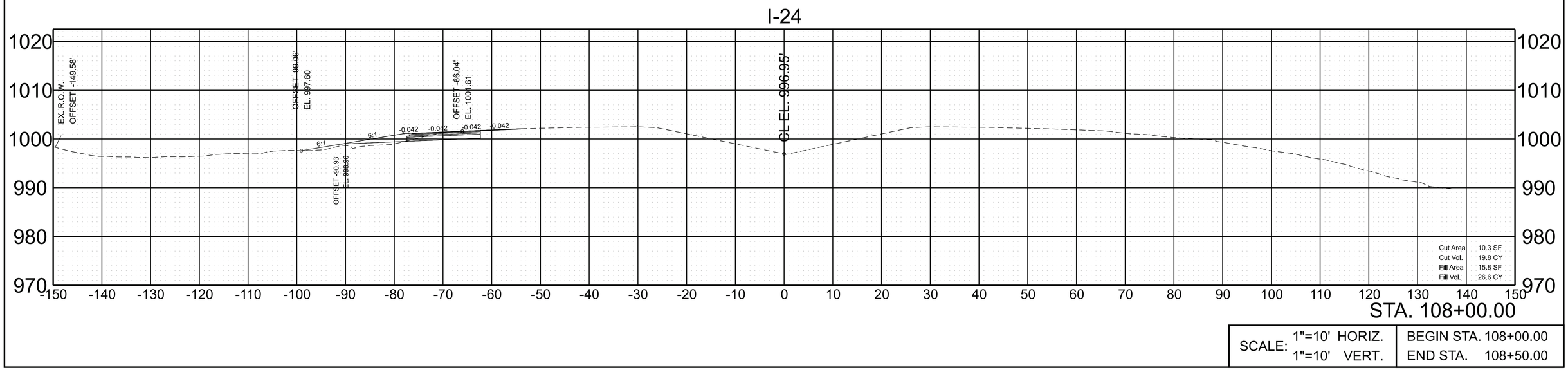


SCALE:		
	1"=10' HORIZ.	BEGIN STA. 107+00.00
	1"=10' VERT.	END STA. 107+50.00

5/29/2026 9:52:00 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I32953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	25
P.I.H.	2026	31I024-S3-002	25
PS&E	2026	31I024-S3-002	30

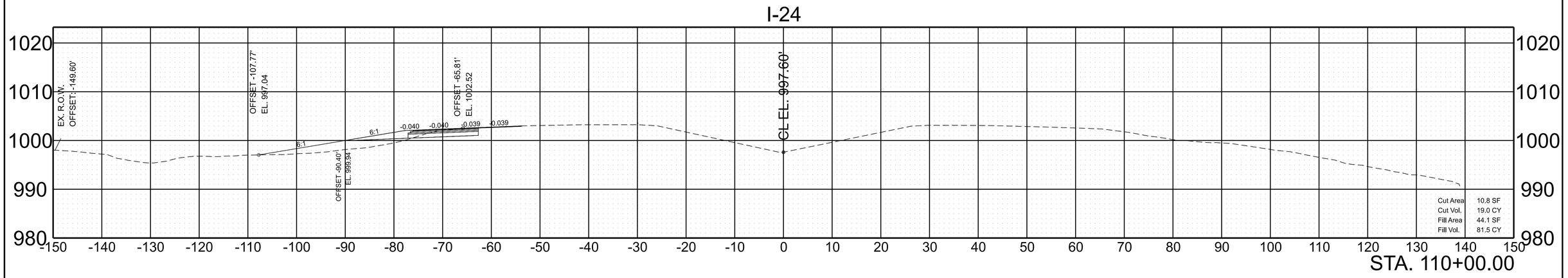


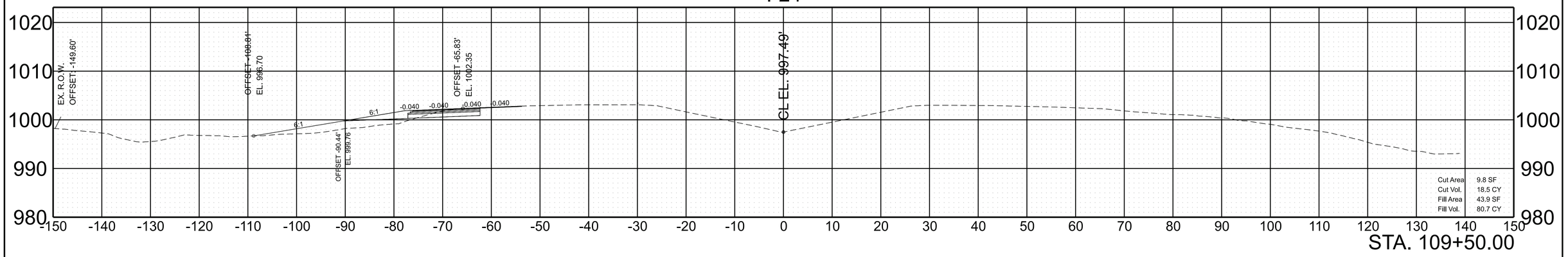


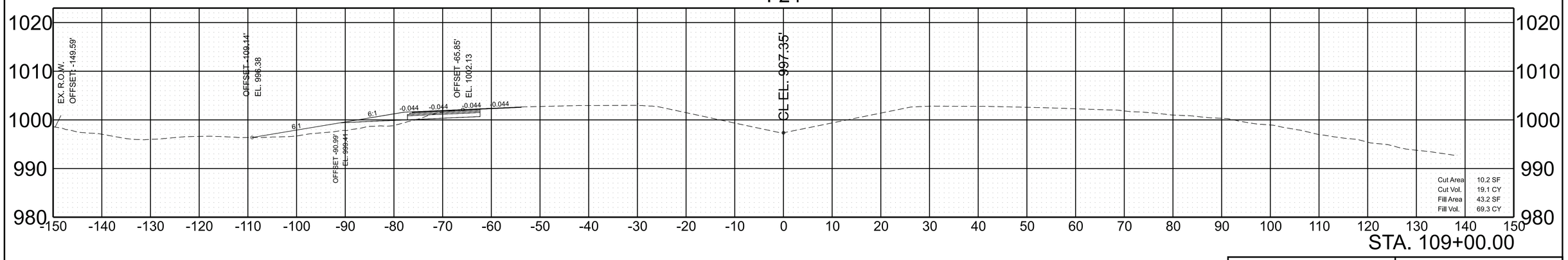
SCALE:	1"=10' HORIZ.	BEGIN STA. 108+00.00
	1"=10' VERT.	END STA. 108+50.00

5/29/2026 9:52:02 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\1332953.00_WORKSETTDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	26
P.I.H.	2026	31I024-S3-002	26
PS&E	2026	31I024-S3-002	31



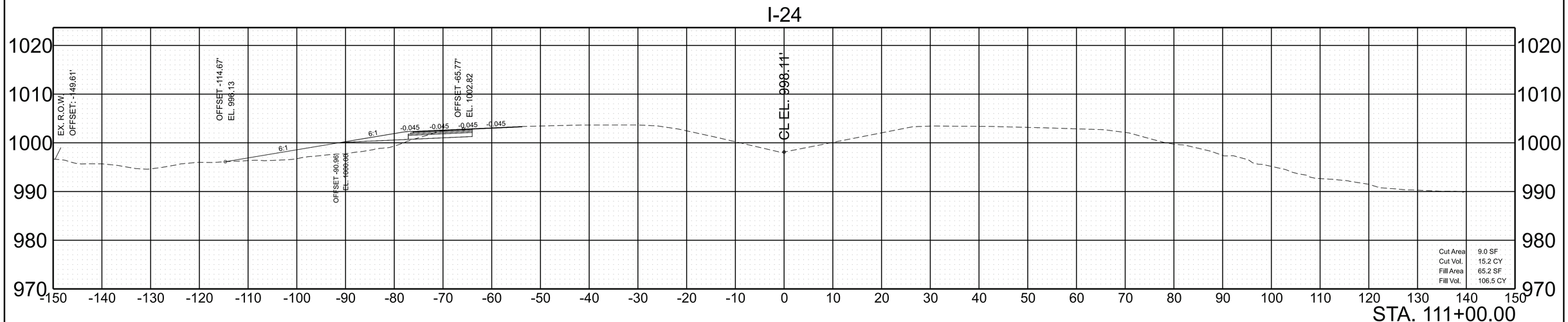


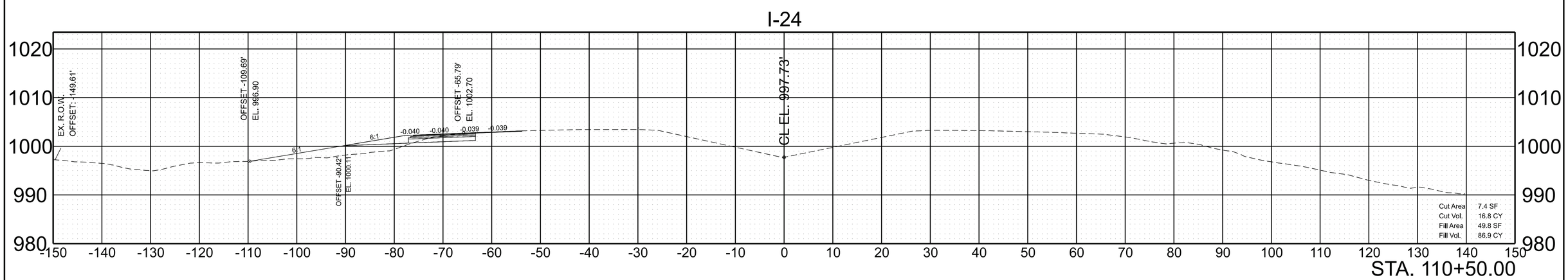


SCALE:	1"=10' HORIZ.	BEGIN STA. 109+00.00
	1"=10' VERT.	END STA. 110+00.00

5/29/2026 9:52:04 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1332953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	27
P.I.H.	2026	31I024-S3-002	27
PS&E	2026	31I024-S3-002	32



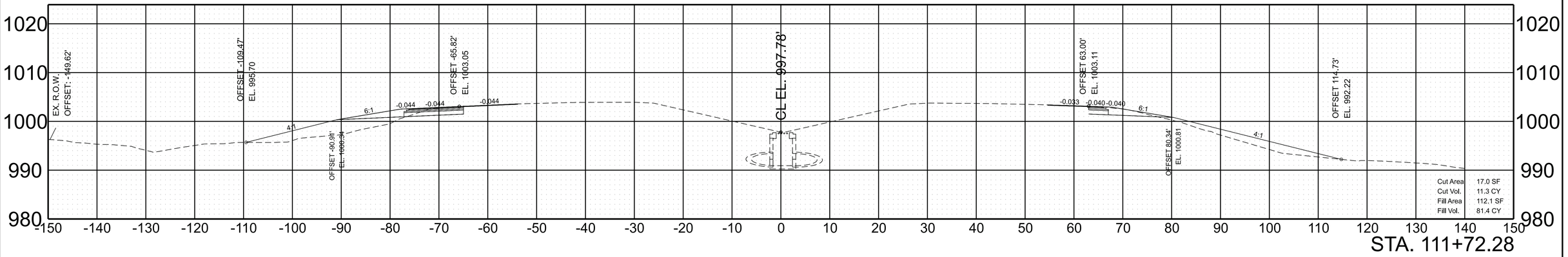


SCALE:	1"=10' HORIZ.	BEGIN STA. 110+50.00
	1"=10' VERT.	END STA. 111+00.00

5/29/2026 9:52:06 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSIWORKSETS\1332953.00_WORKSETIDGN\31I024-SHT-XS-I24.DGN

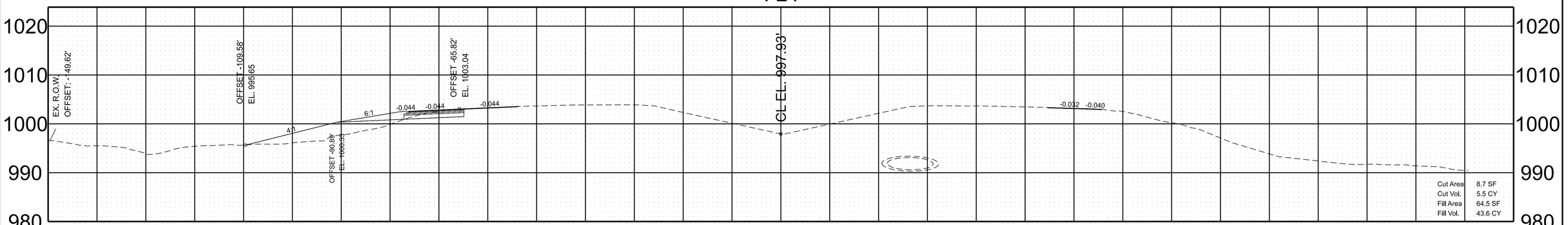
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	28
P.I.H.	2026	31I024-S3-002	28
PS&E	2026	31I024-S3-002	33

I-24



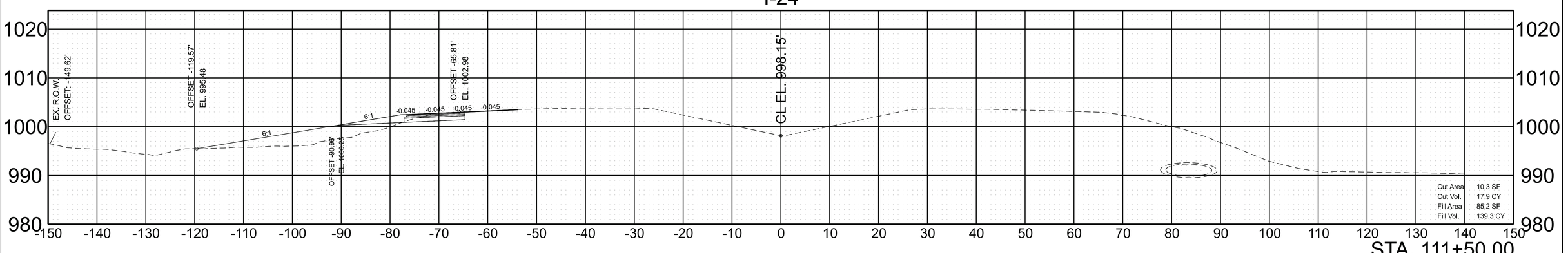
STA. 111+72.28

I-24



STA. 111+65.73

I-24



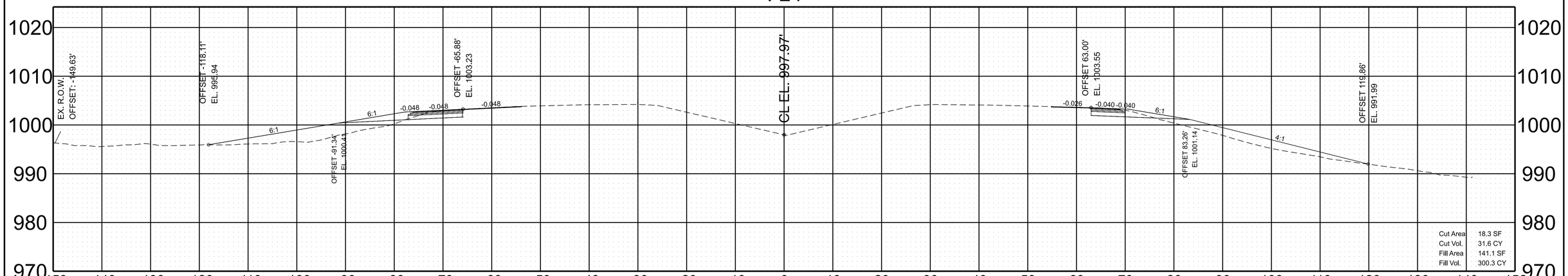
STA. 111+50.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 111+50.00
	1"=10' VERT.	END STA. 111+72.28

5/29/2026 9:52:08 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

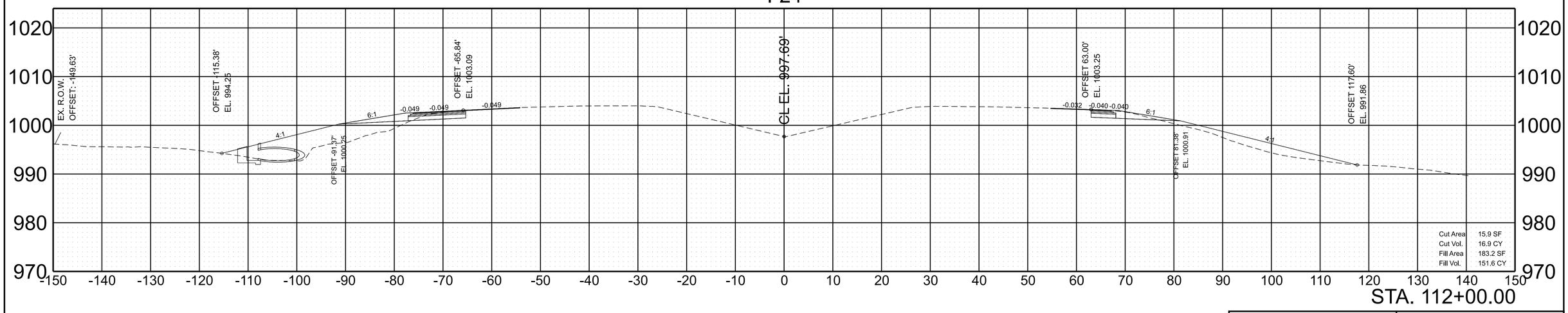
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	29
P.I.H.	2026	31I024-S3-002	29
PS&E	2026	31I024-S3-002	34

I-24



STA. 112+50.00

I-24

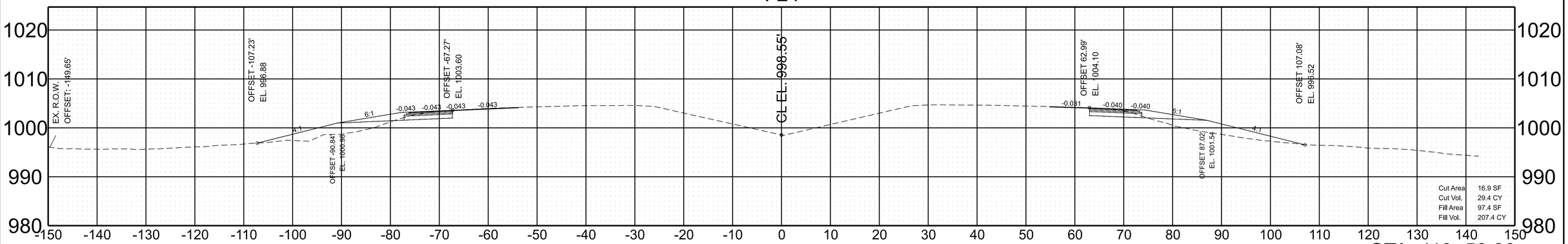


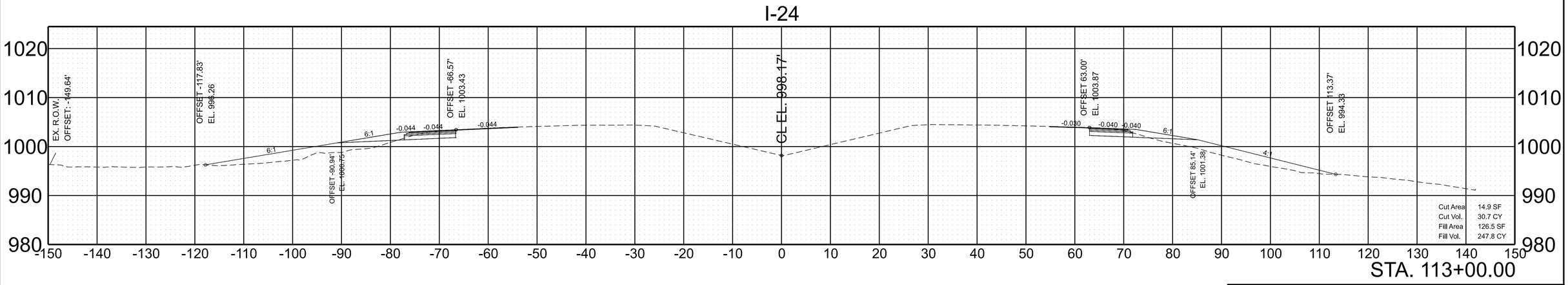
STA. 112+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 112+00.00
	1"=10' VERT.	END STA. 112+50.00

5/29/2026 9:52:11 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I32953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	30
P.I.H.	2026	31I024-S3-002	30
PS&E	2026	31I024-S3-002	35

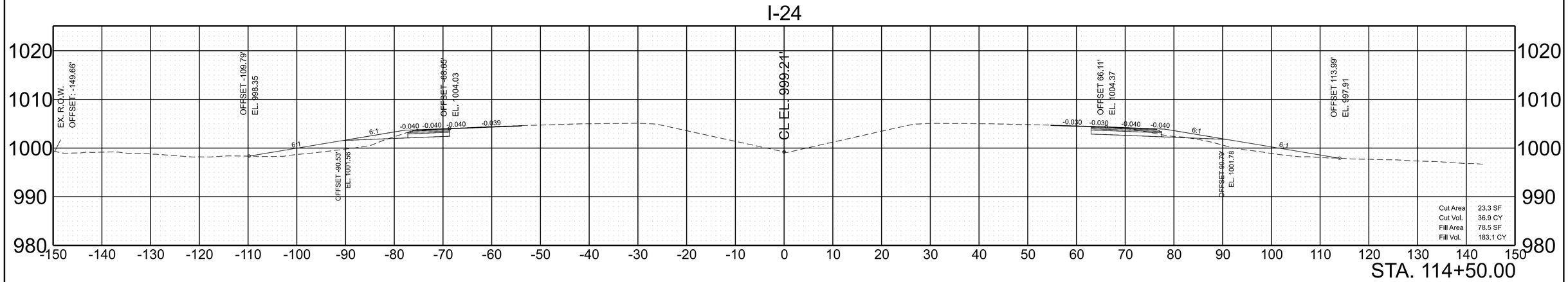


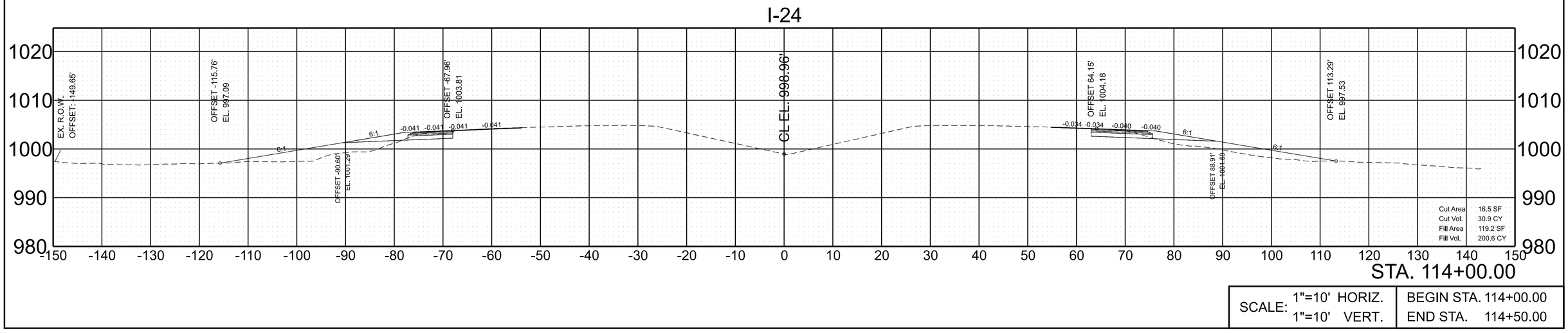


SCALE:	1"=10' HORIZ.	BEGIN STA. 113+00.00
	1"=10' VERT.	END STA. 113+50.00

5/29/2026 9:52:13 AM C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSETTDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	31
P.I.H.	2026	31I024-S3-002	31
PS&E	2026	31I024-S3-002	36

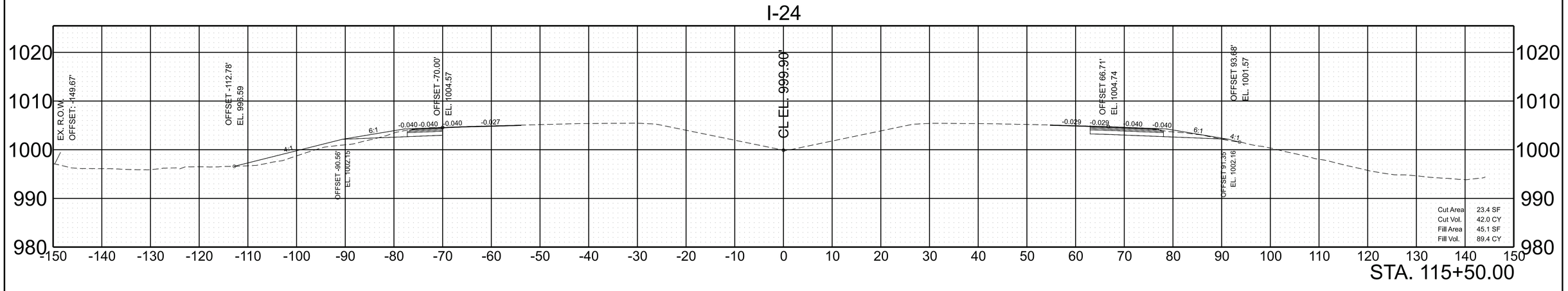


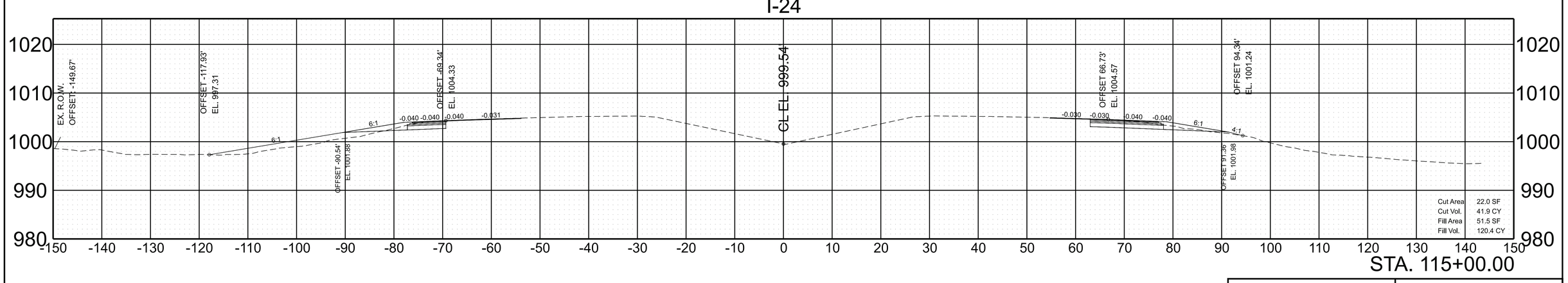


SCALE:	1"=10' HORIZ.	BEGIN STA. 114+00.00
	1"=10' VERT.	END STA. 114+50.00

5/29/2026 9:52:15 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	32
P.I.H.	2026	31I024-S3-002	32
PS&E	2026	31I024-S3-002	37

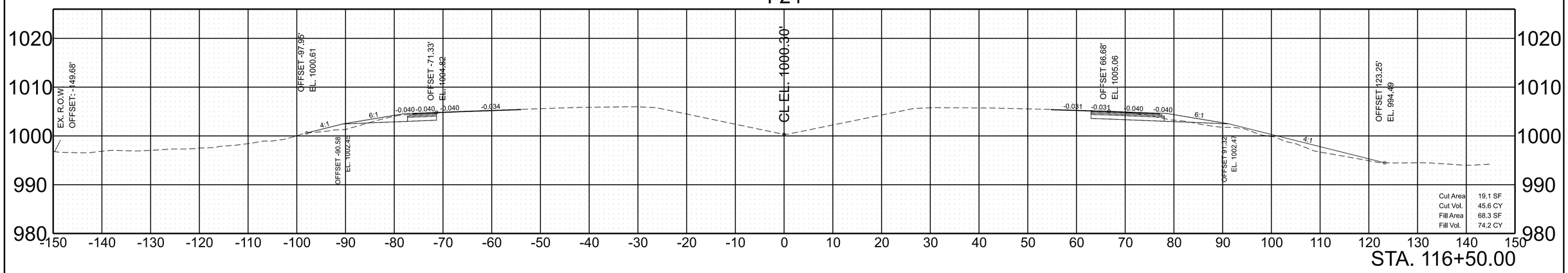


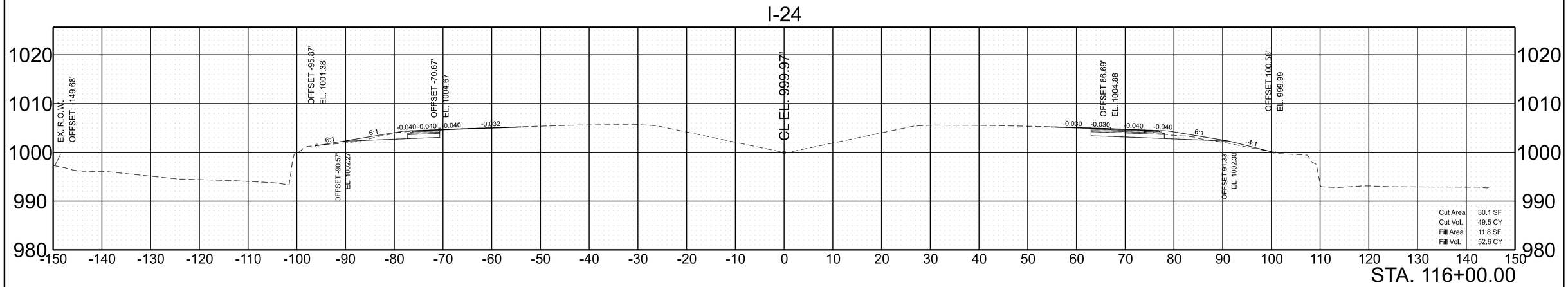


SCALE:	1"=10' HORIZ.	BEGIN STA. 115+00.00
	1"=10' VERT.	END STA. 115+50.00

5/29/2026 9:52:18 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSETTDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	33
P.I.H.	2026	31I024-S3-002	33
PS&E	2026	31I024-S3-002	38

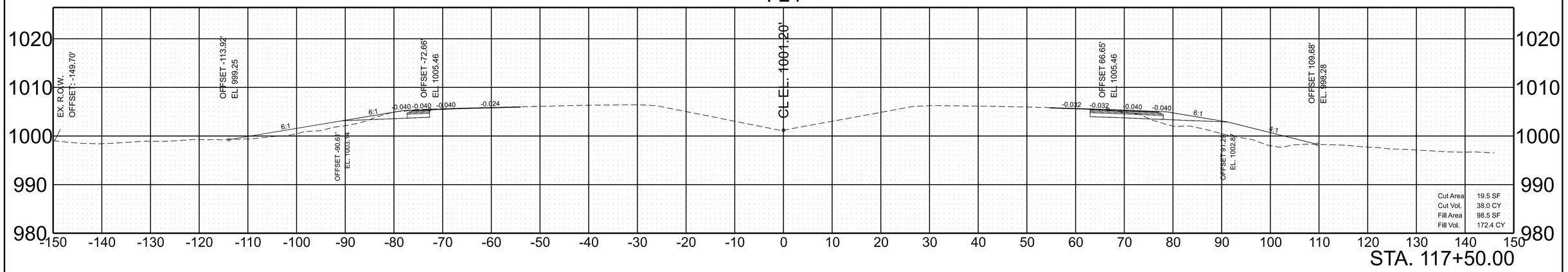


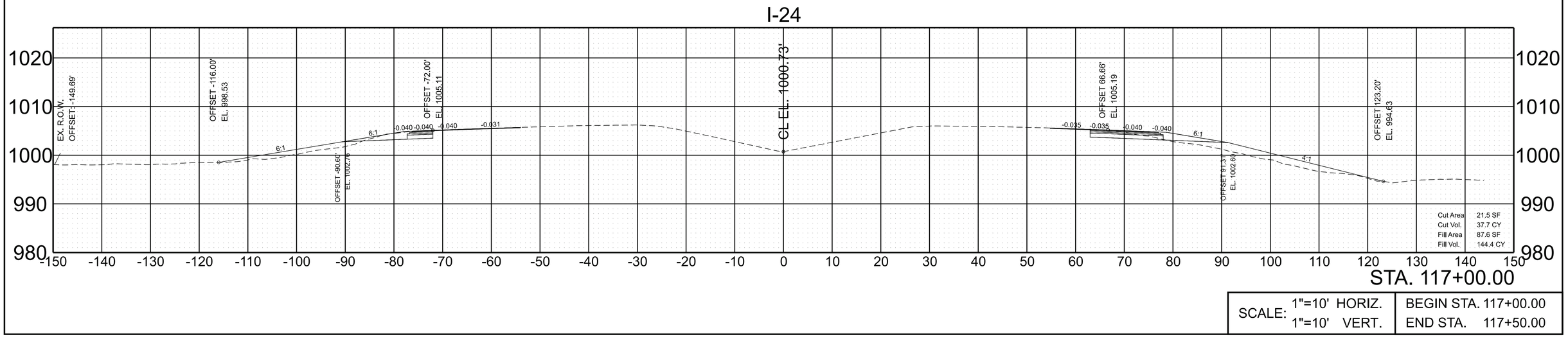


SCALE:	1"=10' HORIZ.	BEGIN STA. 116+00.00
	1"=10' VERT.	END STA. 116+50.00

5/29/2026 9:52:21 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	34
P.I.H.	2026	31I024-S3-002	34
PS&E	2026	31I024-S3-002	39



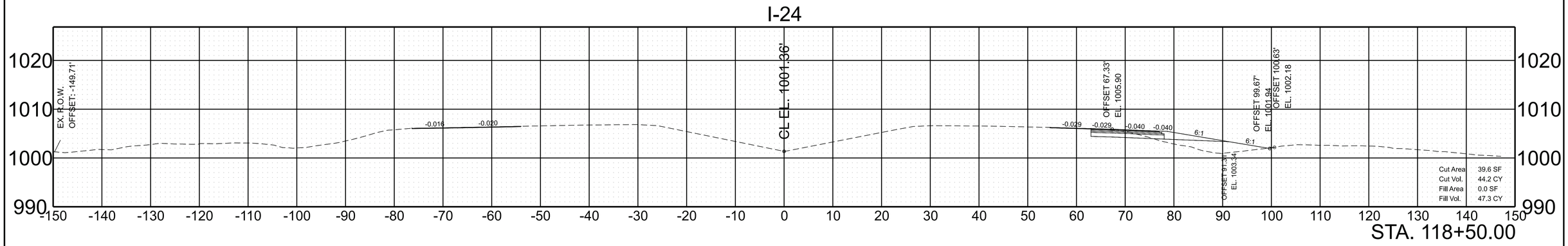


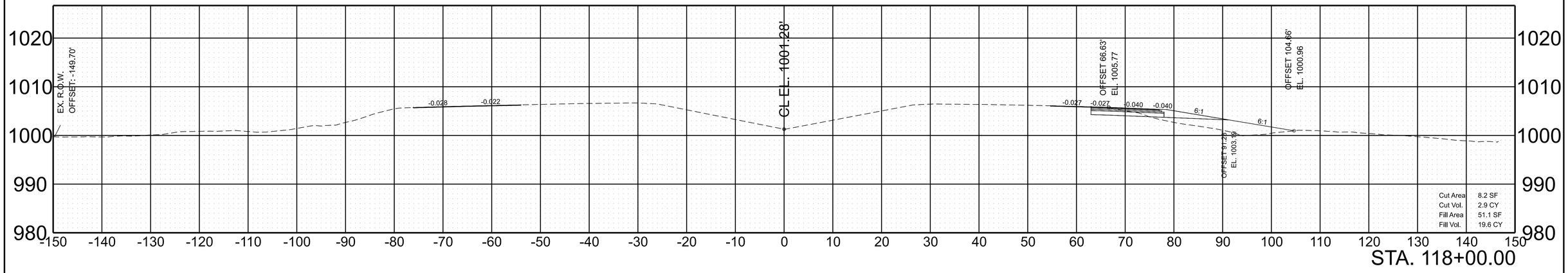
SCALE: 1"=10' HORIZ. 1"=10' VERT.

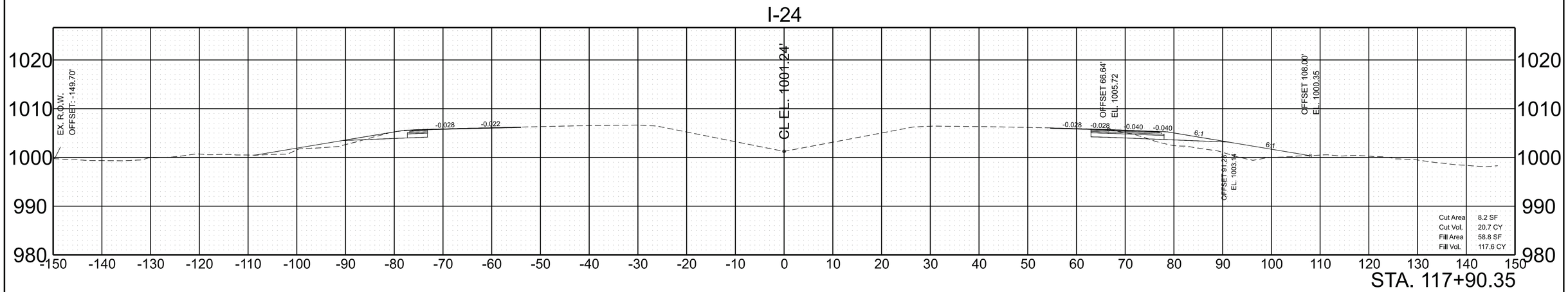
BEGIN STA. 117+00.00
END STA. 117+50.00

5/29/2026 9:52:23 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	35
P.I.H.	2026	31I024-S3-002	35
PS&E	2026	31I024-S3-002	40





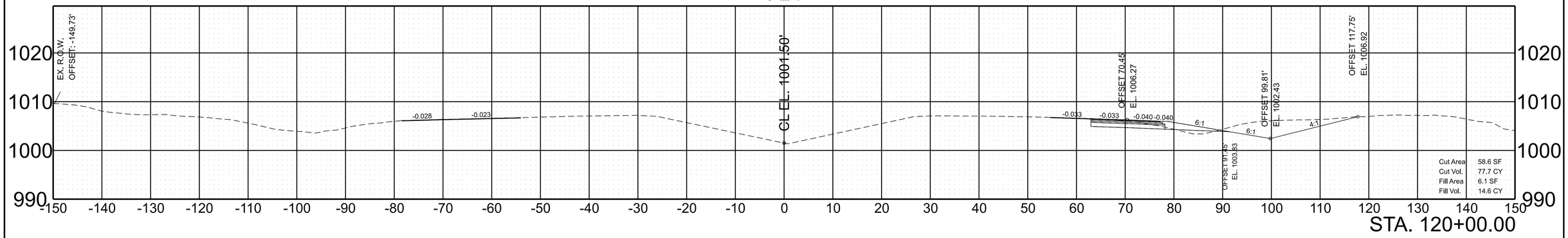


SCALE:	1"=10' HORIZ.	BEGIN STA. 117+90.35
	1"=10' VERT.	END STA. 118+50.00

5/29/2026 8:04:37 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

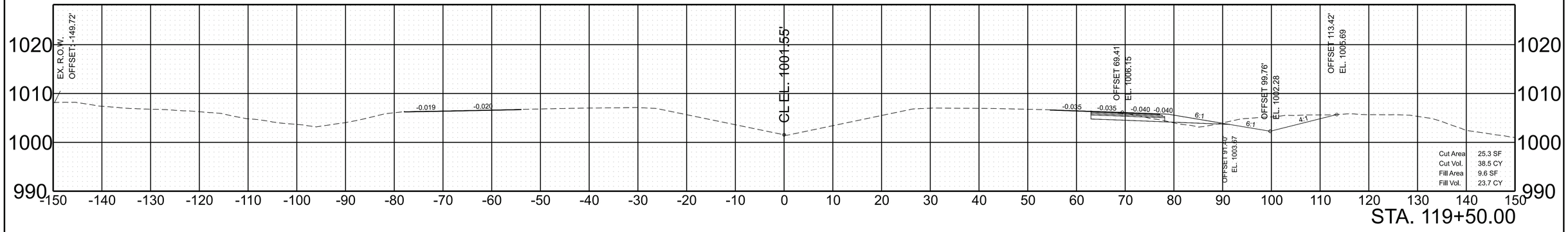
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	36
P.I.H.	2026	31I024-S3-002	36
PS&E	2026	31I024-S3-002	41

I-24



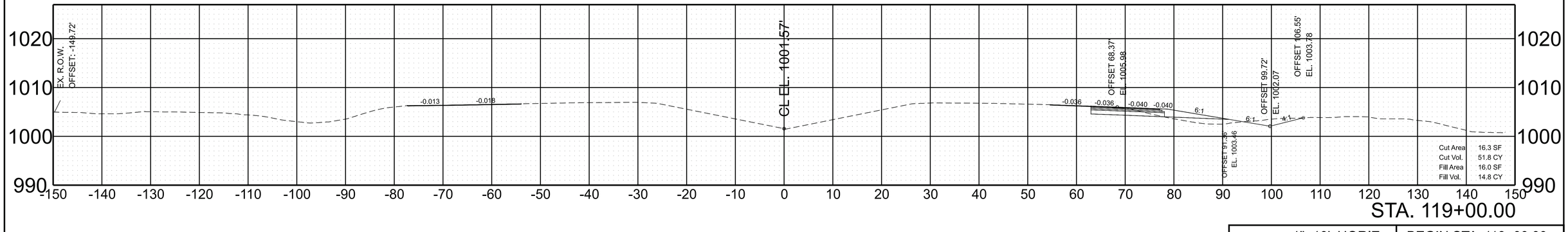
STA. 120+00.00

I-24



STA. 119+50.00

I-24

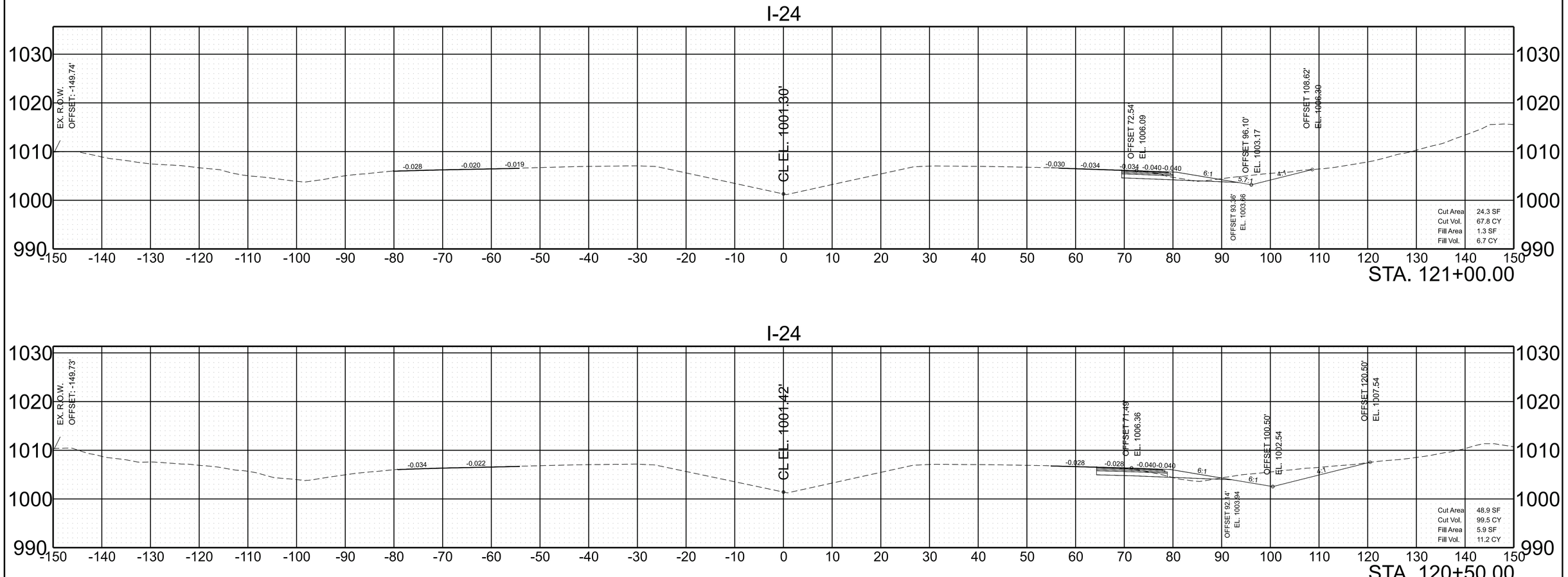


STA. 119+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 119+00.00
	1"=10' VERT.	END STA. 120+00.00

5/29/2026 9:52:29 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

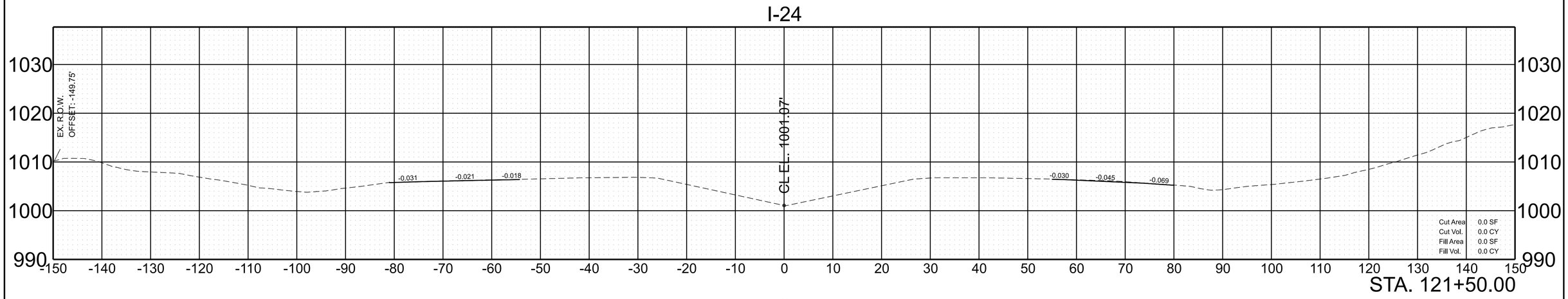
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	37
P.I.H.	2026	31I024-S3-002	37
PS&E	2026	31I024-S3-002	42

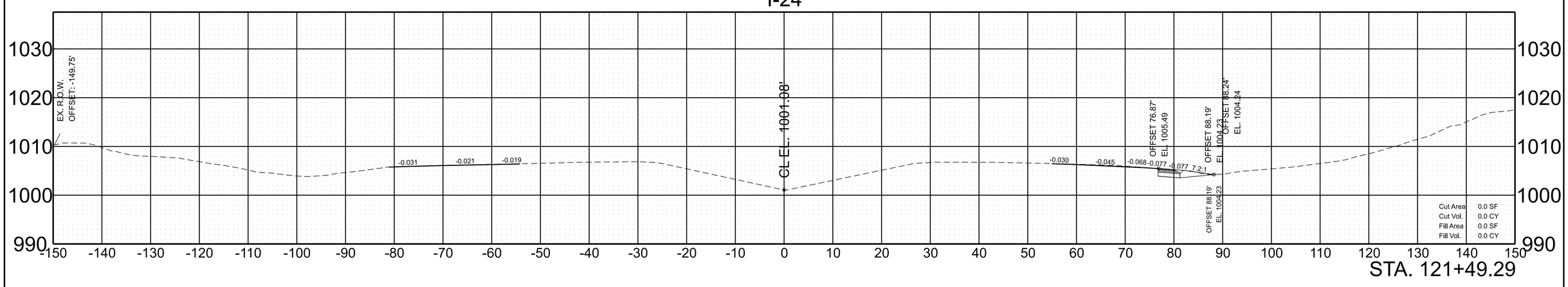


SCALE:		
	1"=10' HORIZ.	BEGIN STA. 120+50.00
	1"=10' VERT.	END STA. 121+00.00

5/29/2026 9:52:34 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	38
P.I.H.	2026	31I024-S3-002	38
PS&E	2026	31I024-S3-002	43

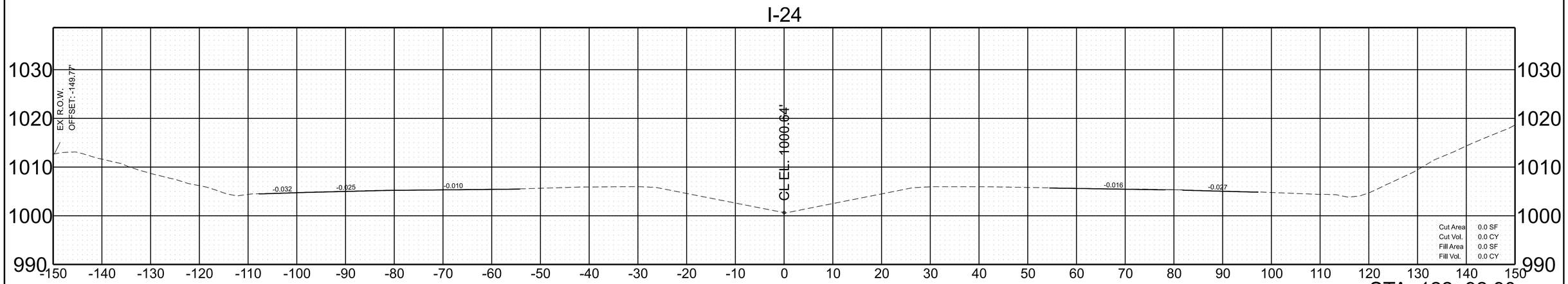


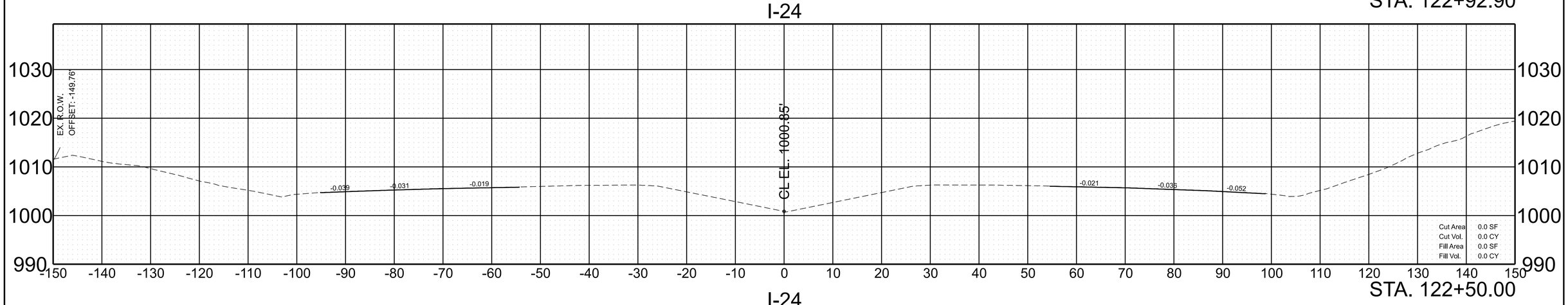


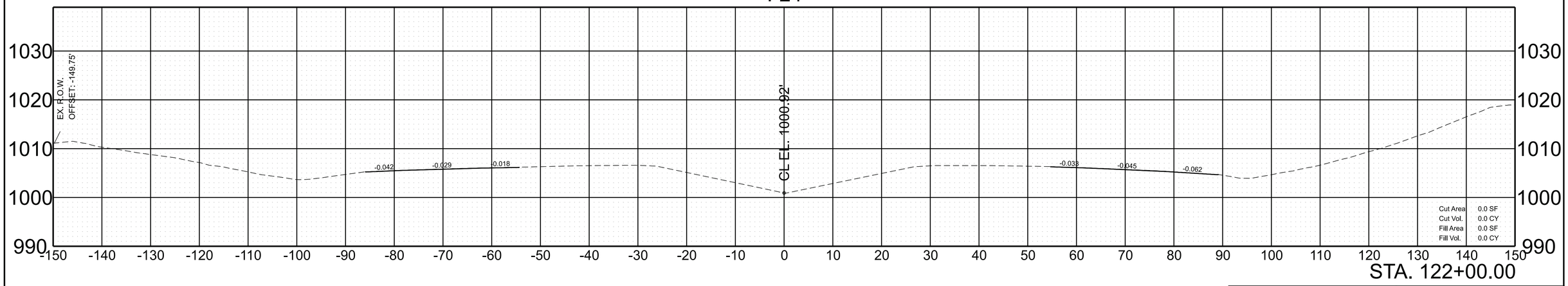
SCALE:		
	1"=10' HORIZ.	BEGIN STA. 121+49.29
	1"=10' VERT.	END STA. 121+50.00

5/29/2026 9:52:36 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	39
P.I.H.	2026	31I024-S3-002	39
PS&E	2026	31I024-S3-002	44





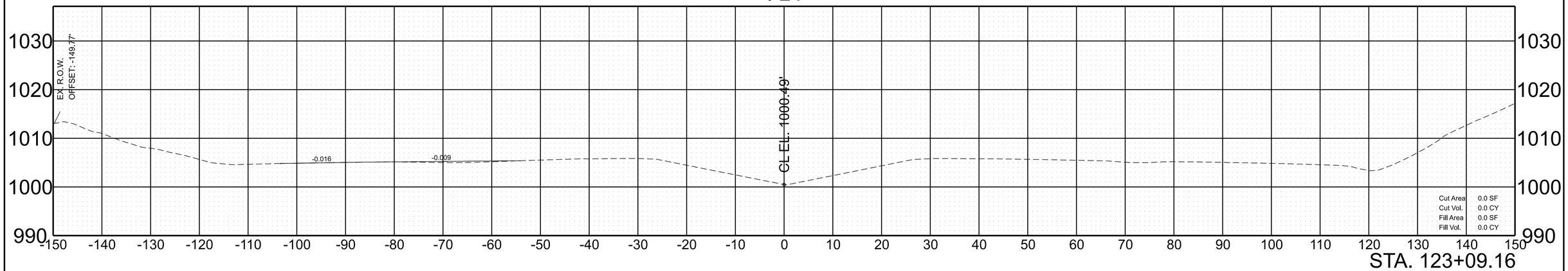


SCALE:	1"=10' HORIZ.	BEGIN STA. 122+00.00
	1"=10' VERT.	END STA. 122+92.91

5/29/2026 9:52:39 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

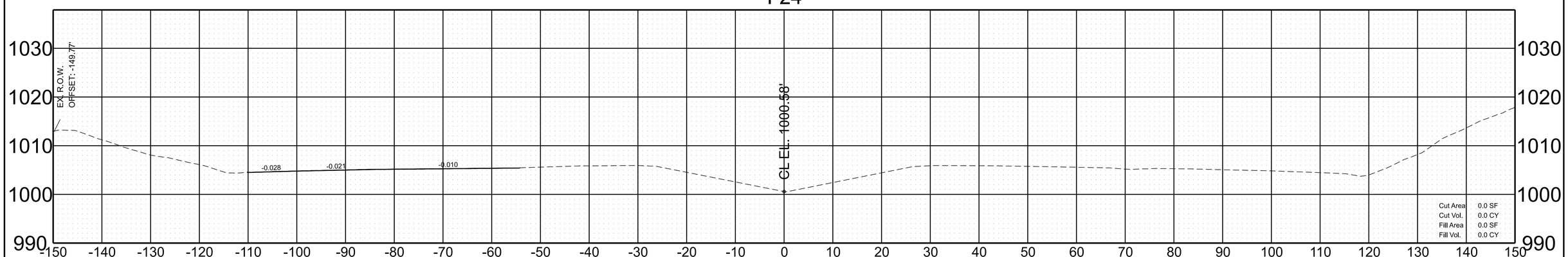
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	40
P.I.H.	2026	31I024-S3-002	40
PS&E	2026	31I024-S3-002	45

I-24



STA. 123+09.16

I-24



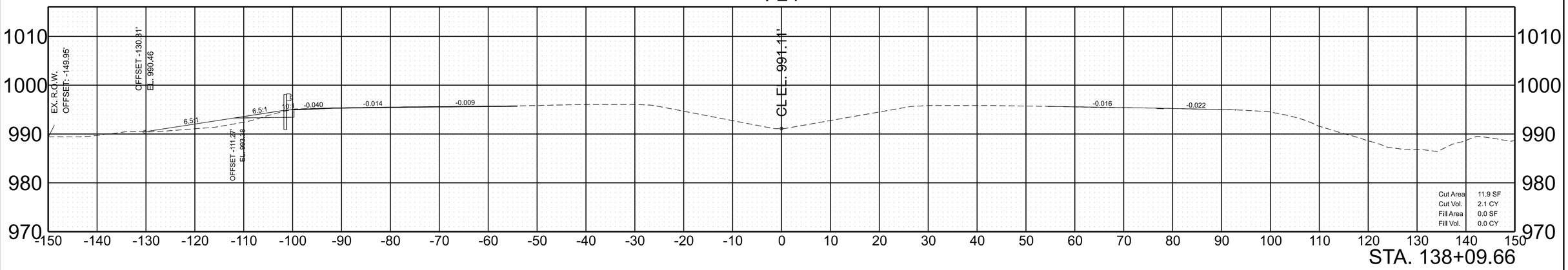
STA. 123+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 123+00.00
	1"=10' VERT.	END STA. 123+09.17

5/29/2026 9:52:41 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

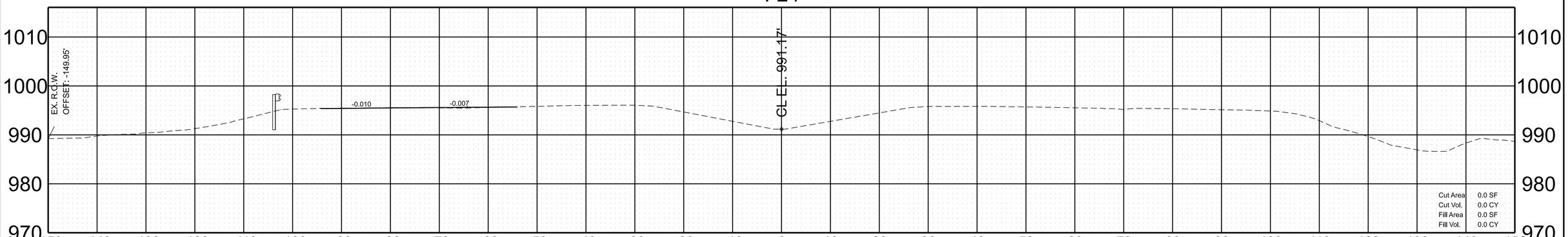
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	41
P.I.H.	2026	31I024-S3-002	41
PS&E	2026	31I024-S3-002	46

I-24



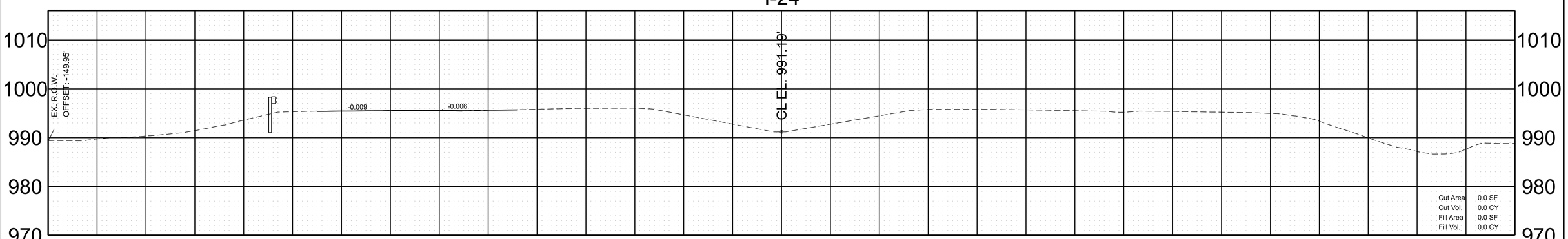
STA. 138+09.66

I-24



STA. 138+00.00

I-24

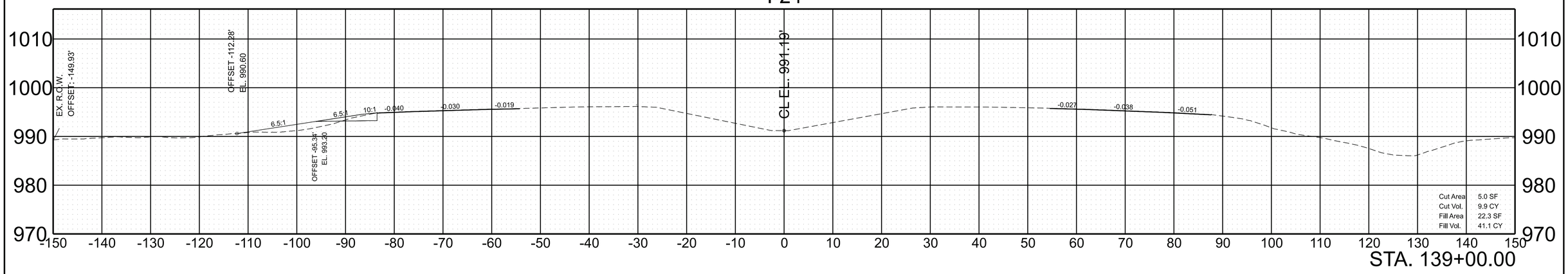


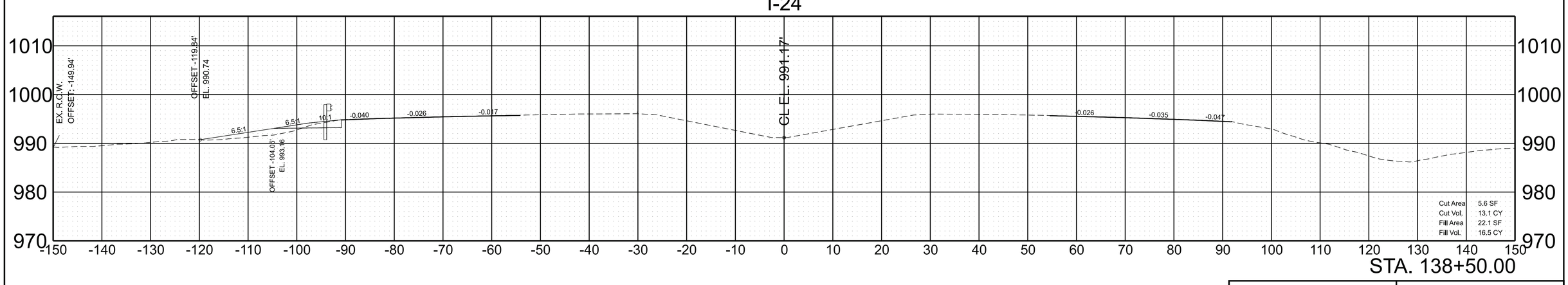
STA. 137+96.71

SCALE:	1"=10' HORIZ.	BEGIN STA. 137+96.71
	1"=10' VERT.	END STA. 138+09.65

5/29/2026 8:06:47 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	42
P.I.H.	2026	31I024-S3-002	42
PS&E	2026	31I024-S3-002	47



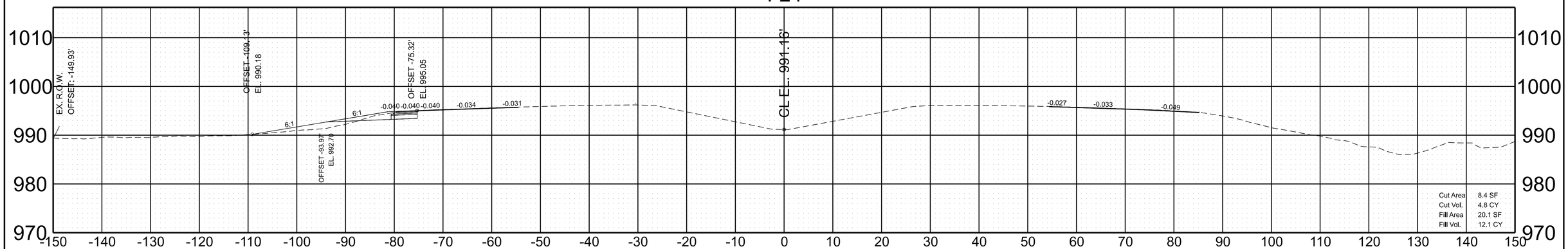


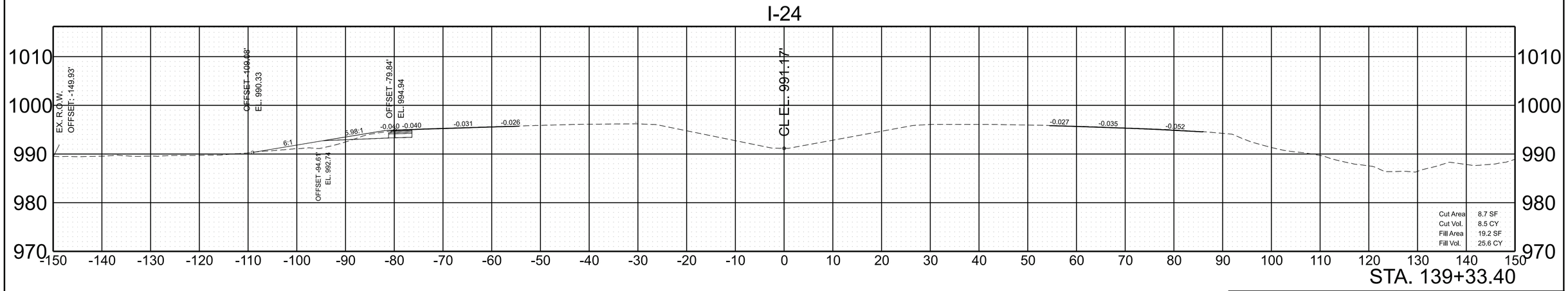
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 138+50.00
END STA. 139+00.00

5/29/2026 8:07:14 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	43
P.I.H.	2026	31I024-S3-002	43
PS&E	2026	31I024-S3-002	48

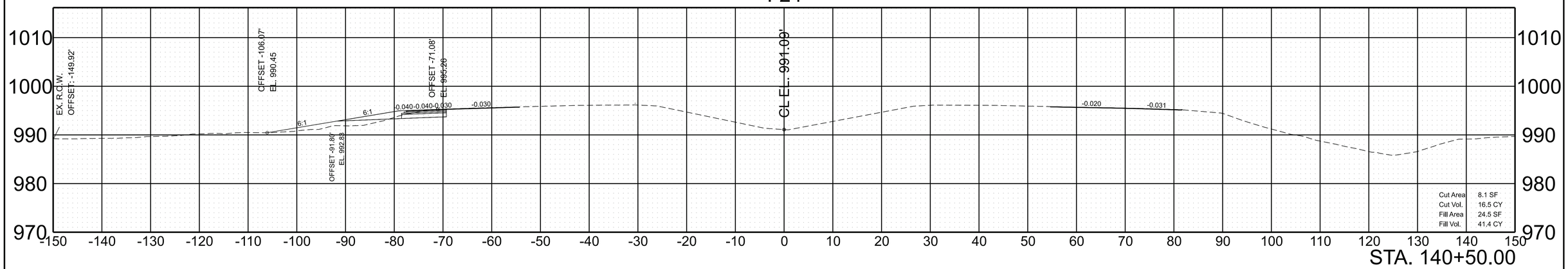


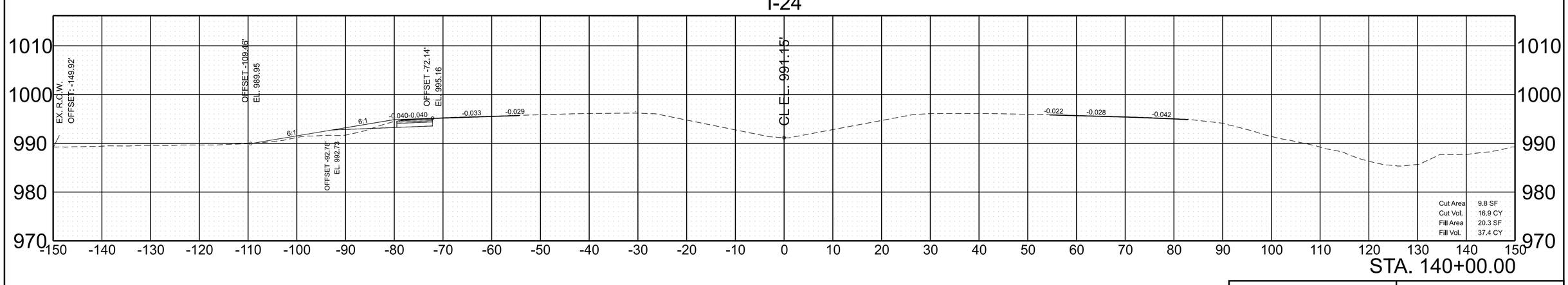


SCALE:	1"=10' HORIZ.	BEGIN STA. 139+33.40
	1"=10' VERT.	END STA. 139+50.00

5/29/2026 8:09:31 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	44
P.I.H.	2026	31I024-S3-002	44
PS&E	2026	31I024-S3-002	49

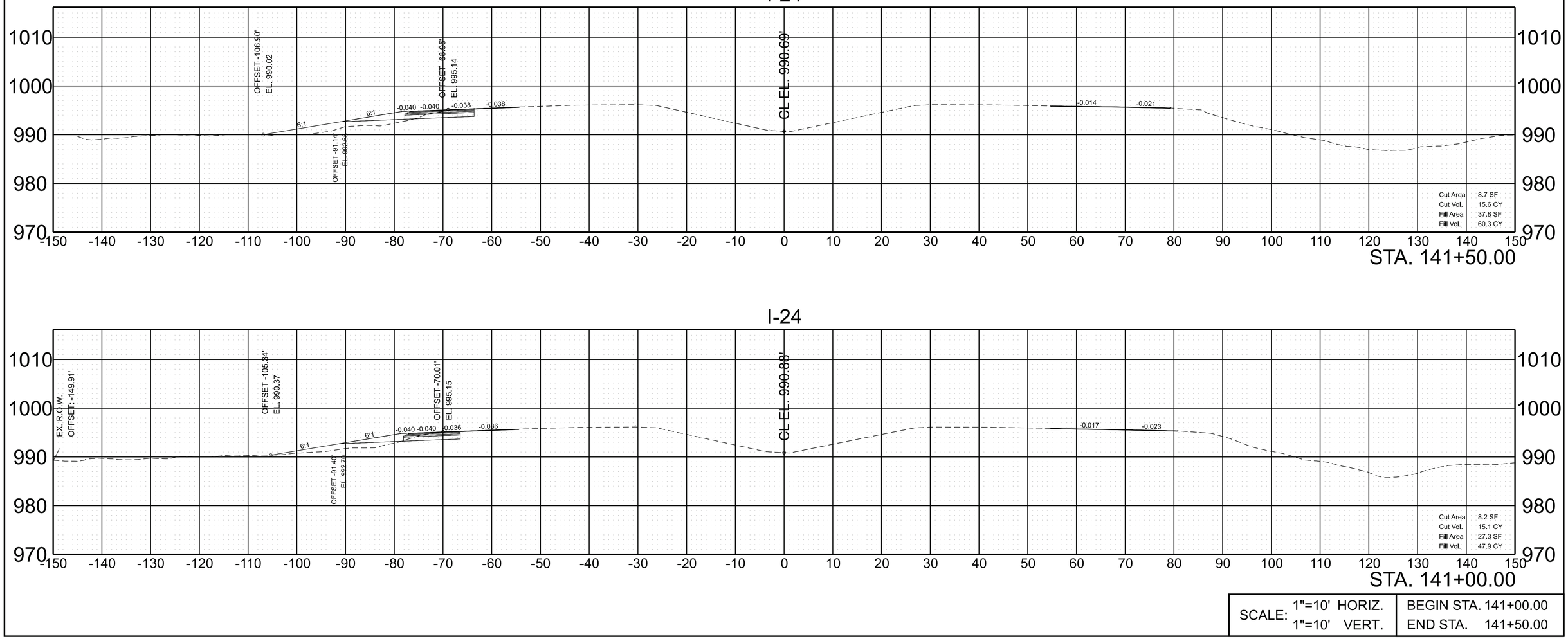




SCALE:		
	1"=10' HORIZ.	BEGIN STA. 140+00.00
	1"=10' VERT.	END STA. 140+50.00

5/29/2026 9:52:50 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

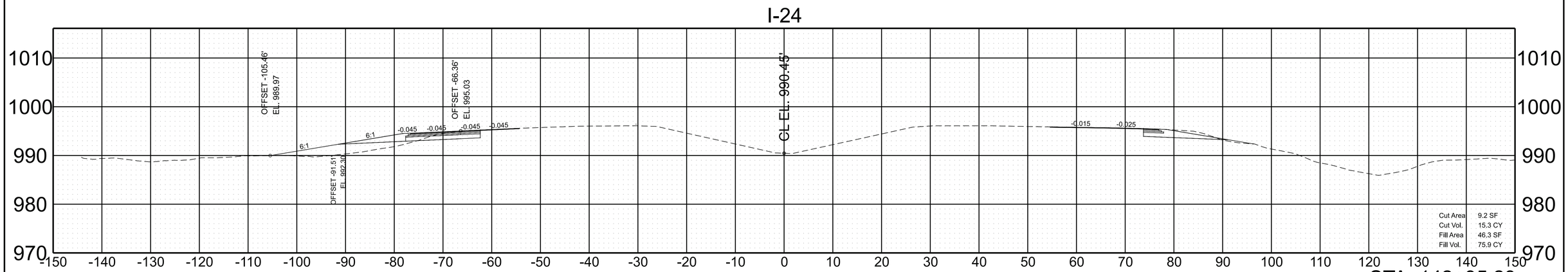
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	45
P.I.H.	2026	31I024-S3-002	45
PS&E	2026	31I024-S3-002	50

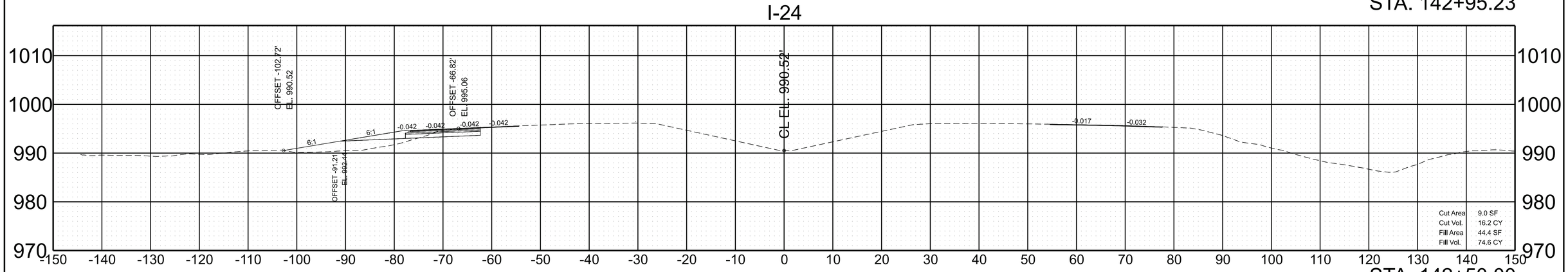


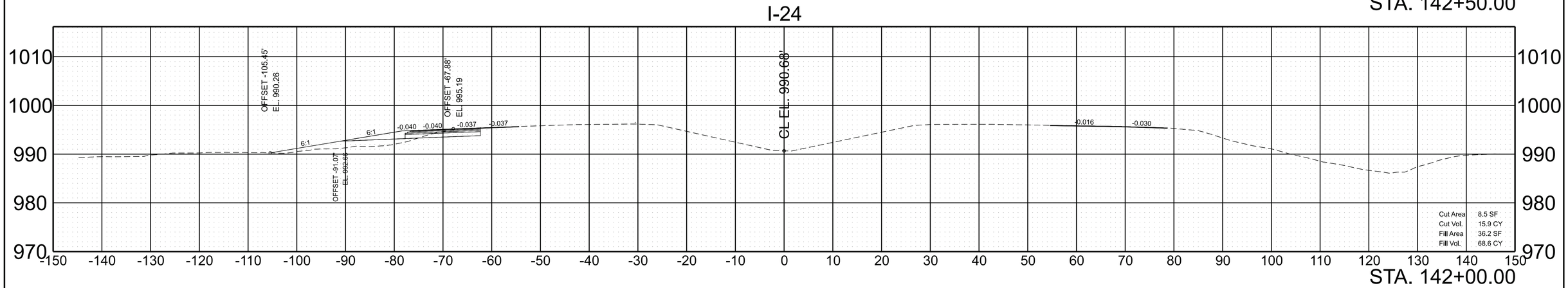
SCALE:	1"=10' HORIZ.	BEGIN STA. 141+00.00
	1"=10' VERT.	END STA. 141+50.00

5/29/2026 9:52:52 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	46
P.I.H.	2026	31I024-S3-002	46
PS&E	2026	31I024-S3-002	51



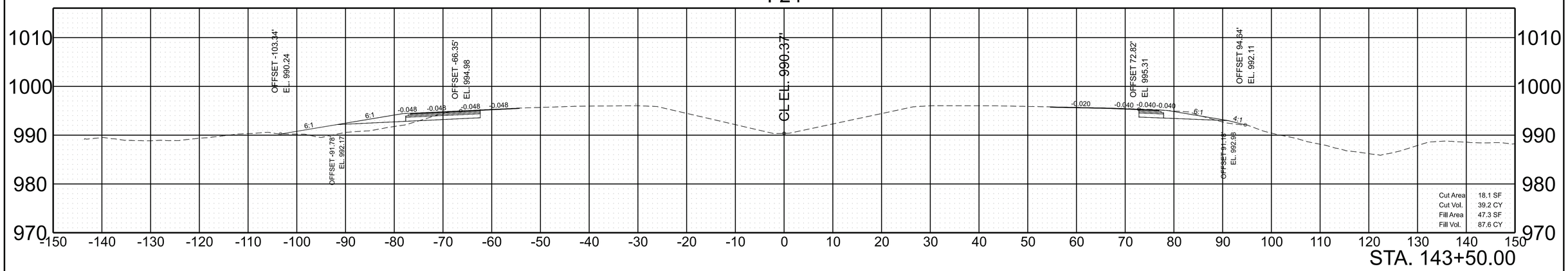


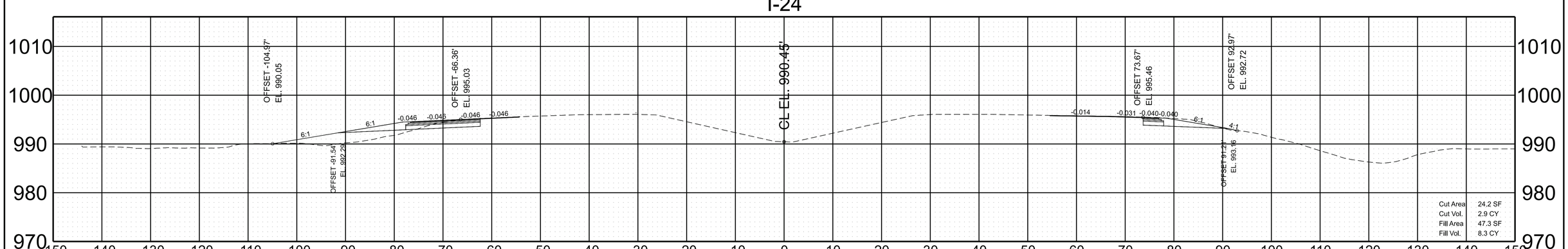


SCALE:	1"=10' HORIZ.	BEGIN STA. 142+00.00
	1"=10' VERT.	END STA. 142+95.23

5/29/2026 9:52:55 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	47
P.I.H.	2026	31I024-S3-002	47
PS&E	2026	31I024-S3-002	52





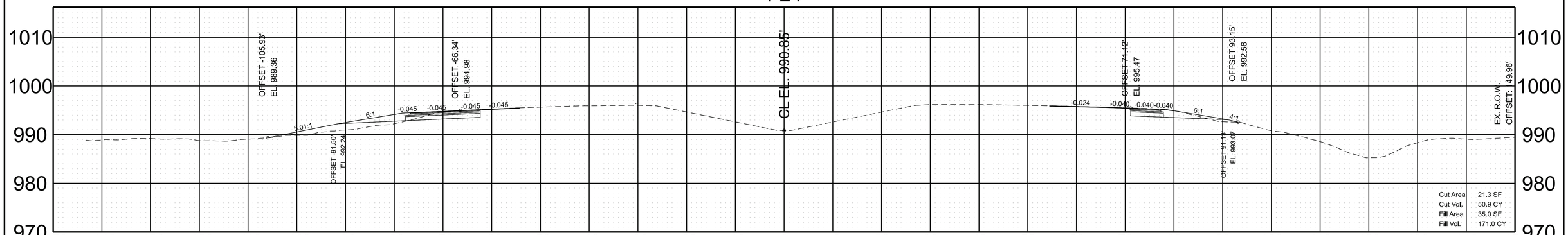
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 143+00.00
END STA. 143+50.00

5/29/2026 9:52:57 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

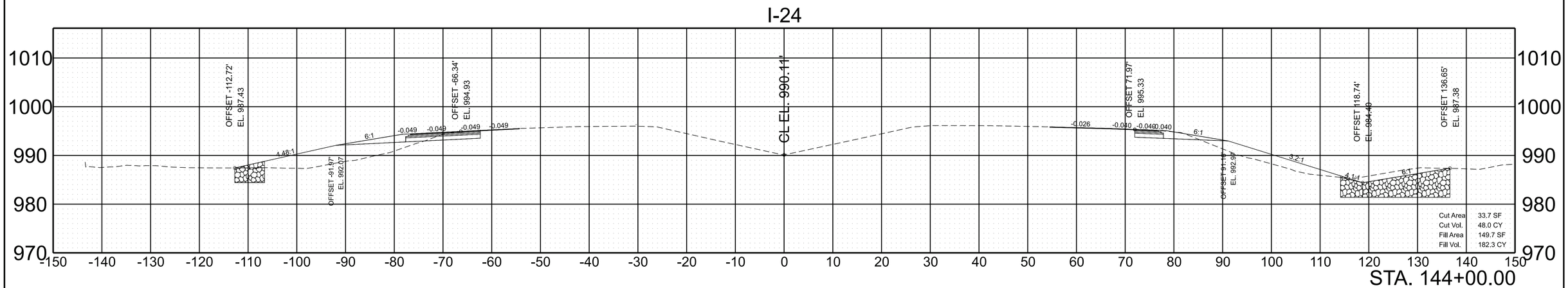
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	48
P.I.H.	2026	31I024-S3-002	48
PS&E	2026	31I024-S3-002	53

I-24



STA. 144+50.00

I-24

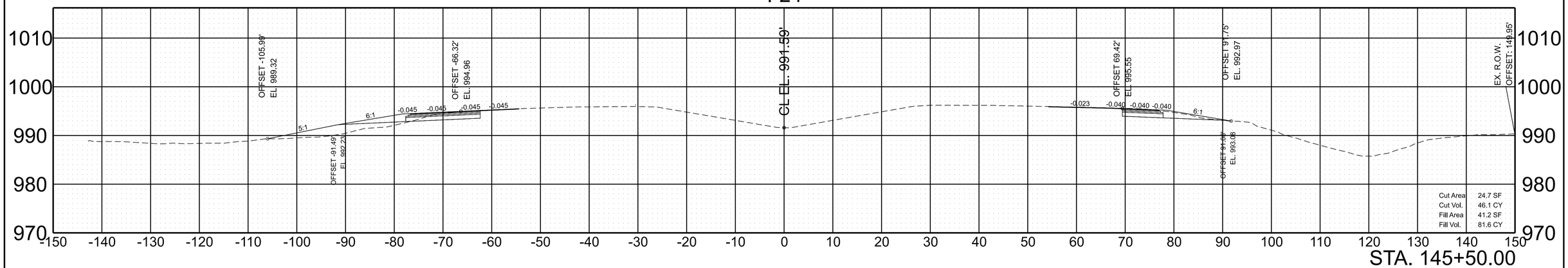


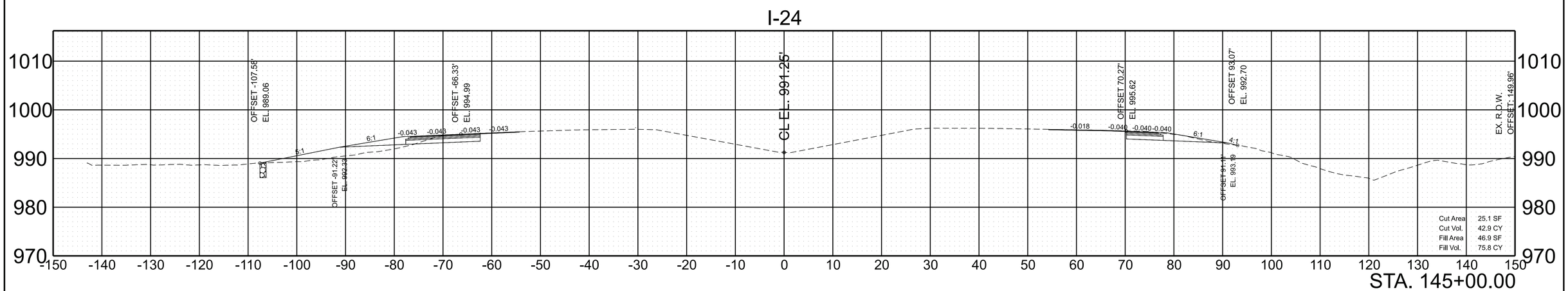
STA. 144+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 144+00.00
	1"=10' VERT.	END STA. 144+50.00

5/29/2026 9:52:59 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSETDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	311024-S0-002	49
P.I.H.	2026	311024-S3-002	49
PS&E	2026	311024-S3-002	54

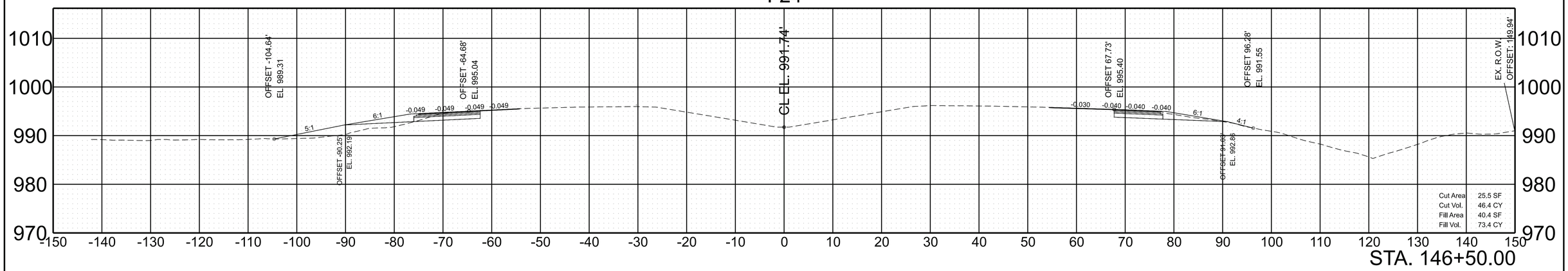


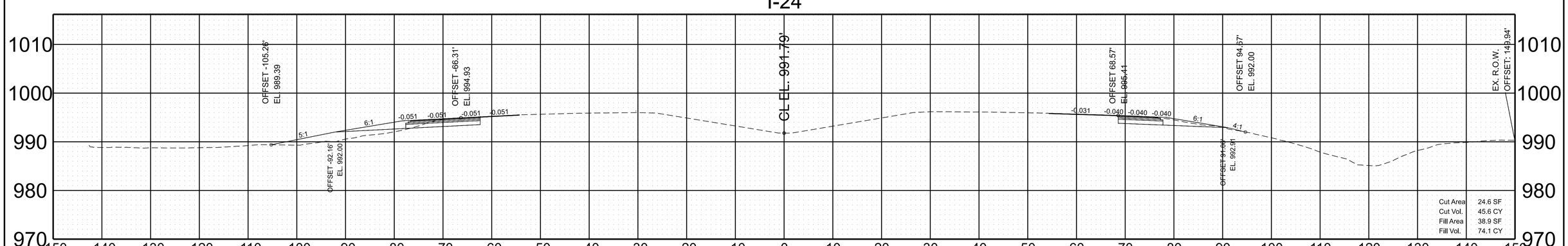


SCALE:	1"=10' HORIZ.	BEGIN STA. 145+00.00
	1"=10' VERT.	END STA. 145+50.00

5/29/2026 9:53:01 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSETDGN\311024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	50
P.I.H.	2026	31I024-S3-002	50
PS&E	2026	31I024-S3-002	55



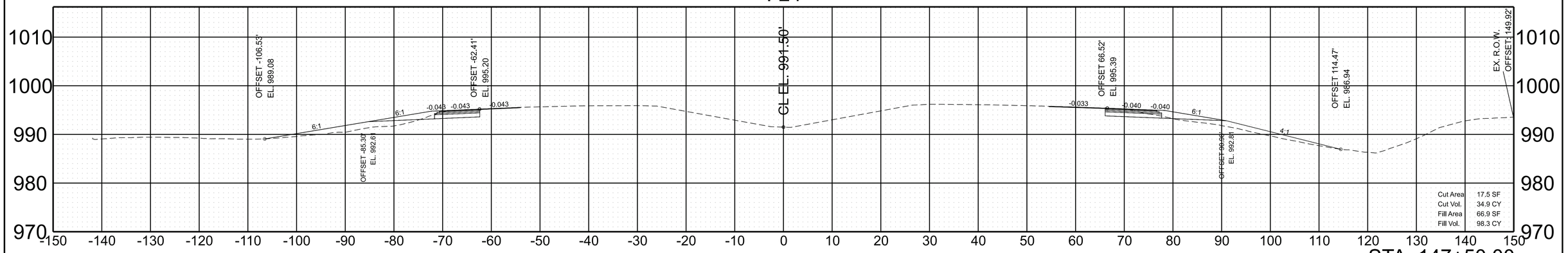


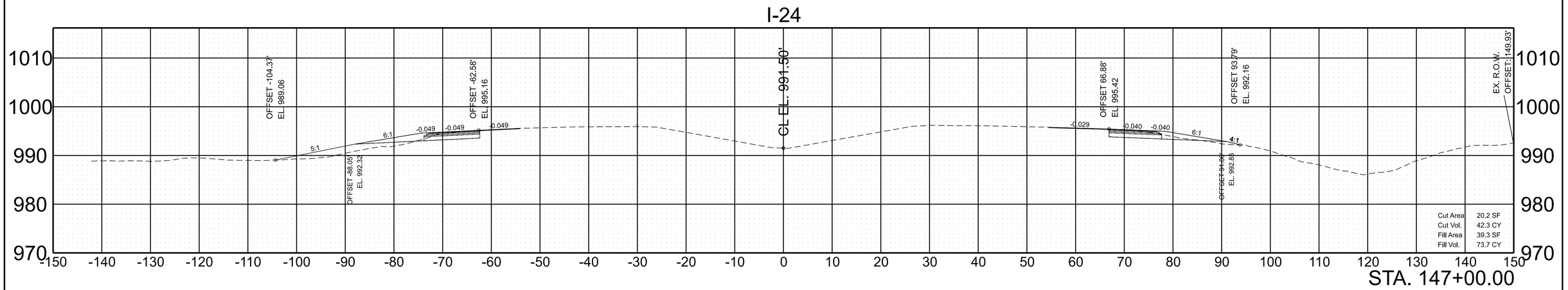
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 146+00.00
END STA. 146+50.00

5/29/2026 9:53:03 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	51
P.I.H.	2026	31I024-S3-002	51
PS&E	2026	31I024-S3-002	56



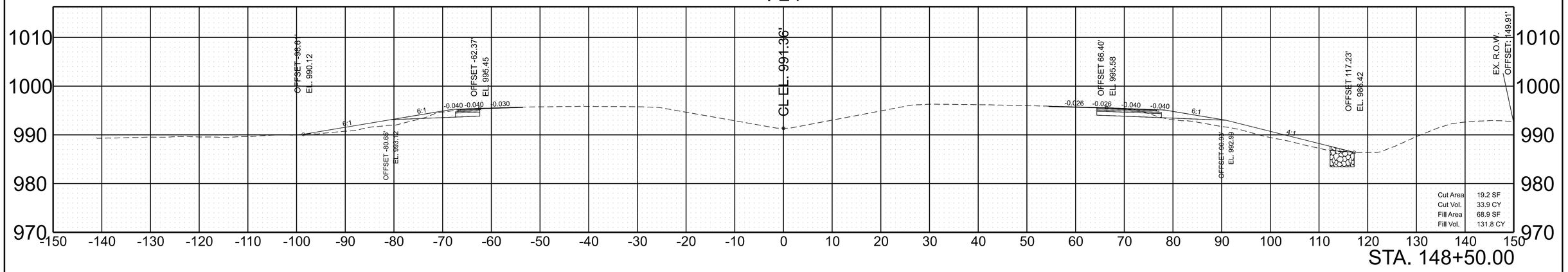


SCALE:	1"=10' HORIZ.	BEGIN STA. 147+00.00
	1"=10' VERT.	END STA. 147+50.00

5/29/2026 9:53:05 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

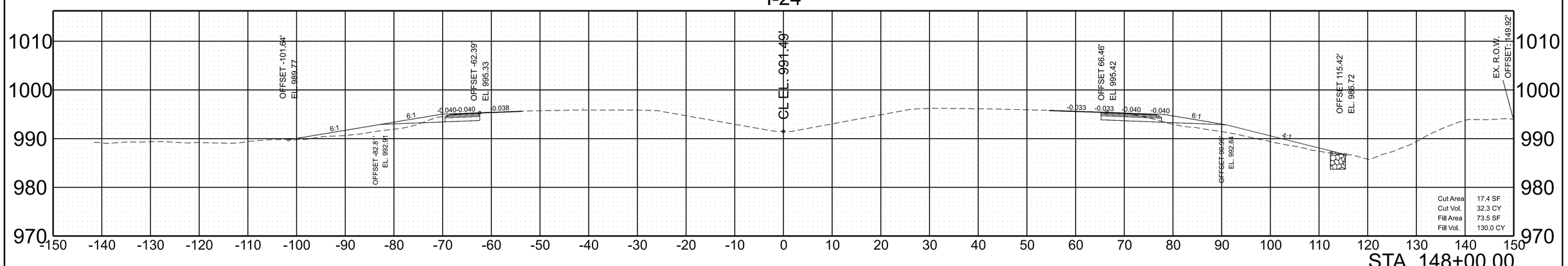
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	52
P.I.H.	2026	31I024-S3-002	52
PS&E	2026	31I024-S3-002	57

I-24



STA. 148+50.00

I-24



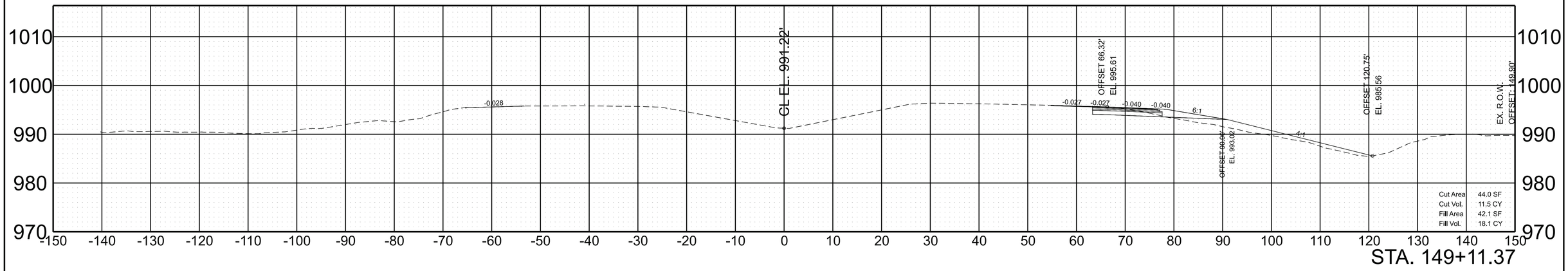
STA. 148+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 148+00.00
	1"=10' VERT.	END STA. 148+50.00

5/29/2026 9:53:07 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

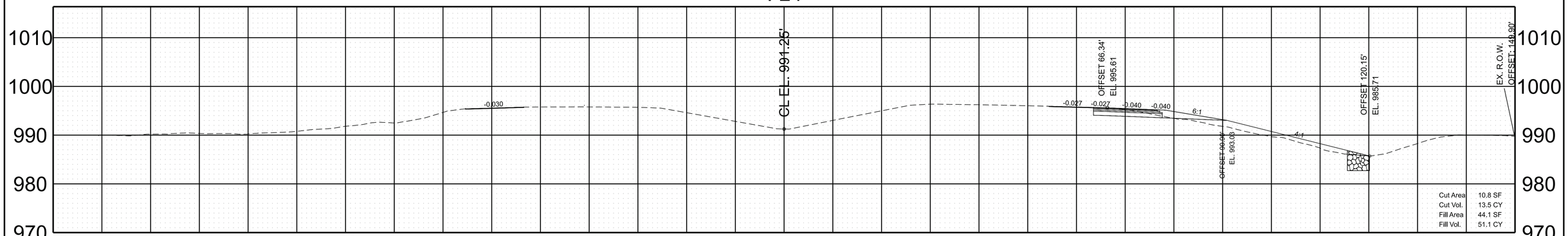
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	53
P.I.H.	2026	31I024-S3-002	53
PS&E	2026	31I024-S3-002	58

I-24



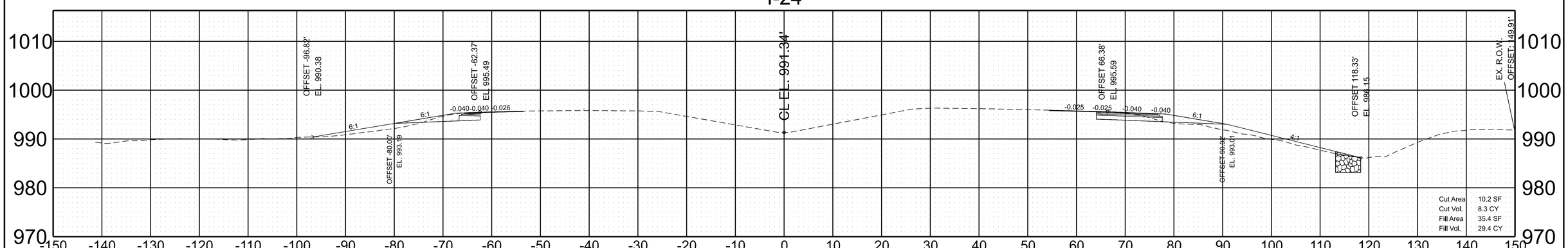
STA. 149+11.37

I-24



STA. 149+00.00

I-24

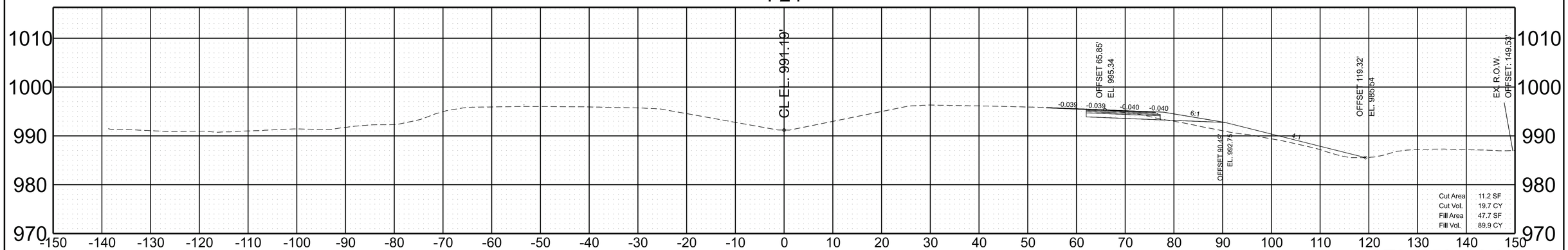


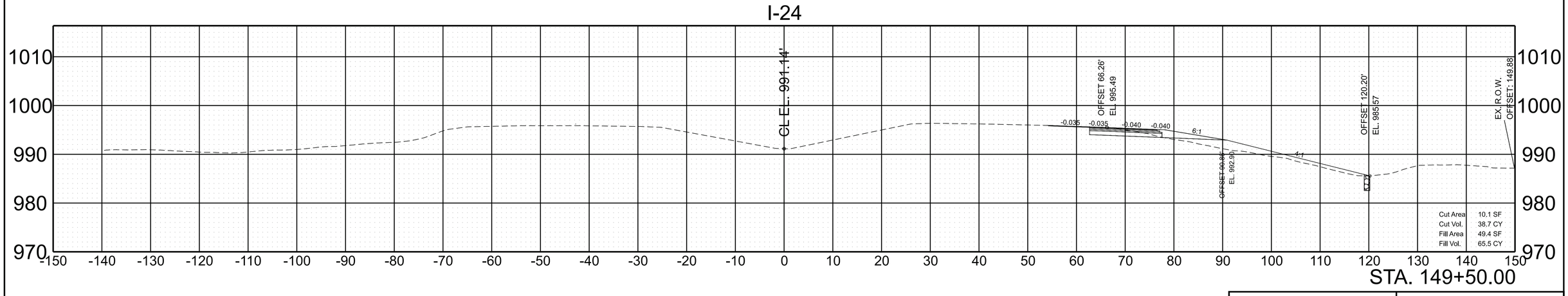
STA. 148+65.23

SCALE:	1"=10' HORIZ.	BEGIN STA. 148+65.32
	1"=10' VERT.	END STA. 149+00.00

5/29/2026 8:12:07 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\I132953.00_WORKSETI\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	54
P.I.H.	2026	31I024-S3-002	54
PS&E	2026	31I024-S3-002	59

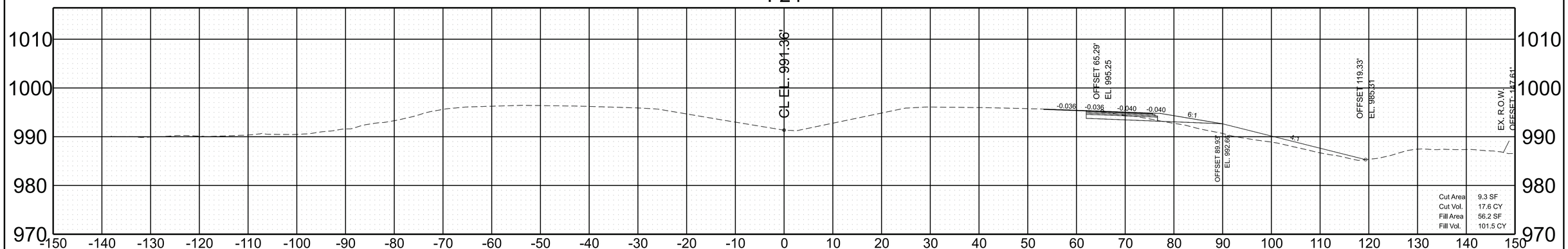


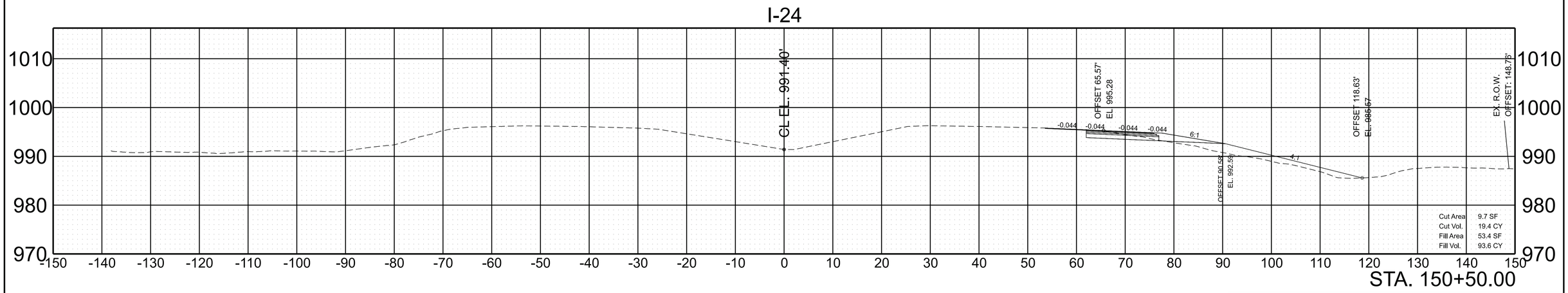


SCALE:	1"=10' HORIZ.	BEGIN STA. 149+50.00
	1"=10' VERT.	END STA. 150+00.00

5/29/2026 9:53:11 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	55
P.I.H.	2026	31I024-S3-002	55
PS&E	2026	31I024-S3-002	60

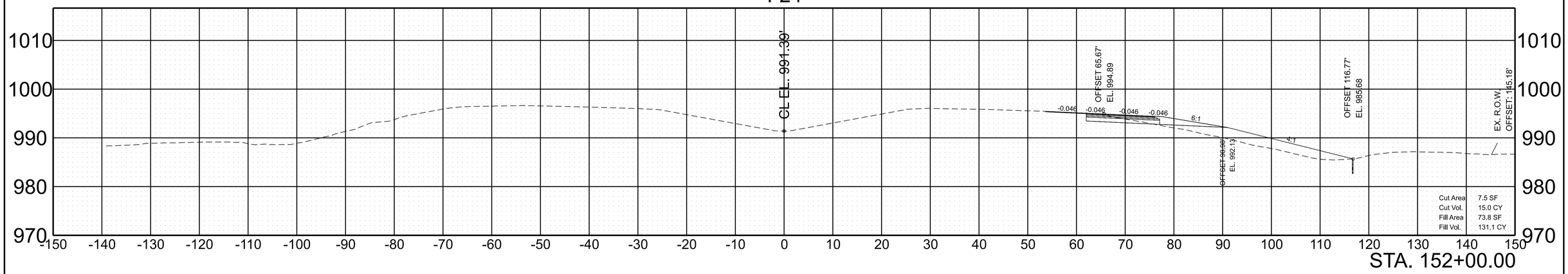


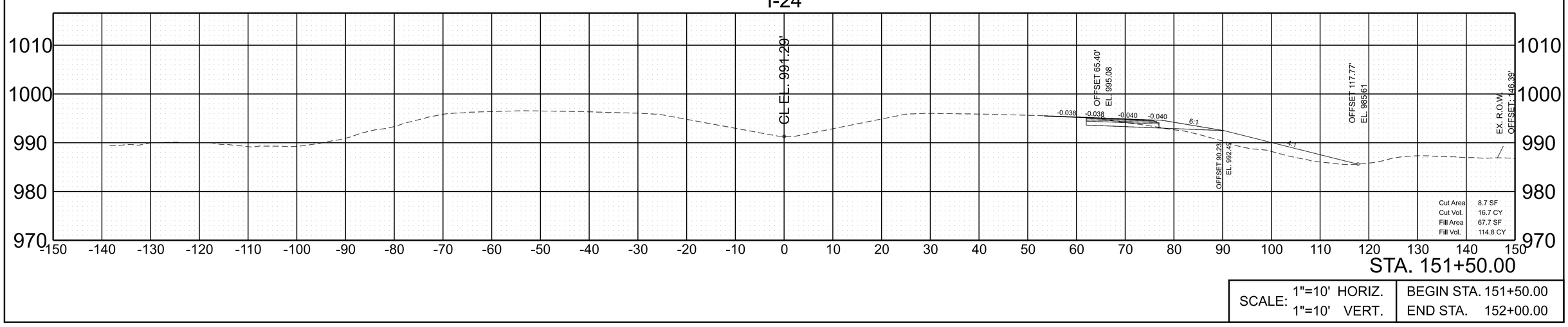


SCALE:	1"=10' HORIZ.	BEGIN STA. 150+50.00
	1"=10' VERT.	END STA. 151+00.00

5/29/2026 9:53:13 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	56
P.I.H.	2026	31I024-S3-002	56
PS&E	2026	31I024-S3-002	61

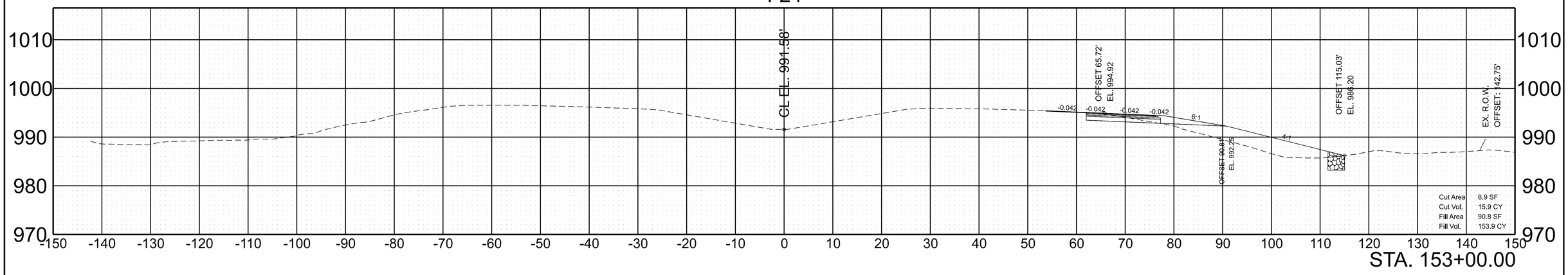


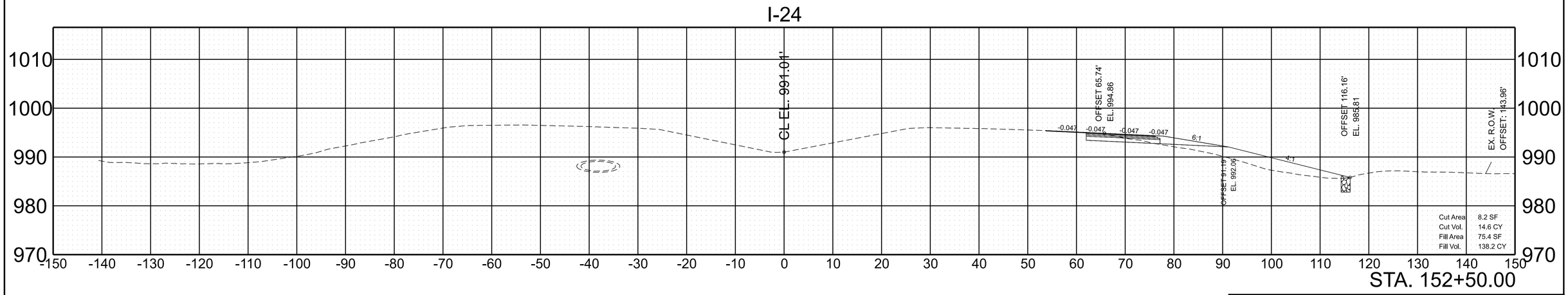


SCALE:	1"=10' HORIZ.	BEGIN STA. 151+50.00
	1"=10' VERT.	END STA. 152+00.00

5/29/2026 9:53:15 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\1329530.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	57
P.I.H.	2026	31I024-S3-002	57
PS&E	2026	31I024-S3-002	62

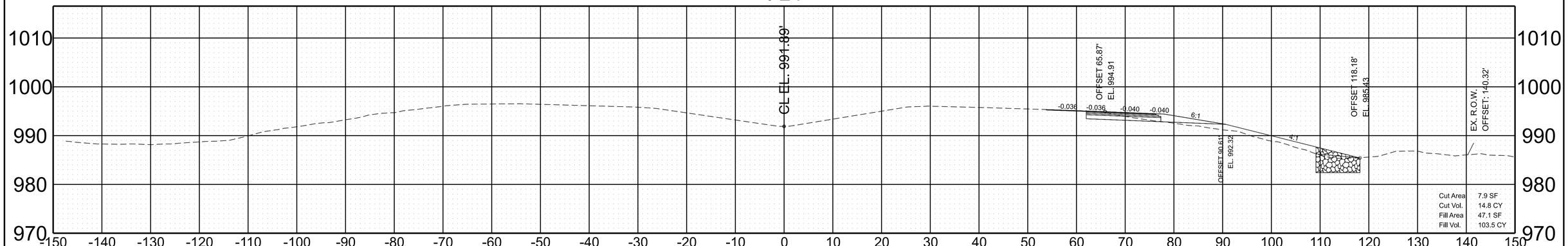


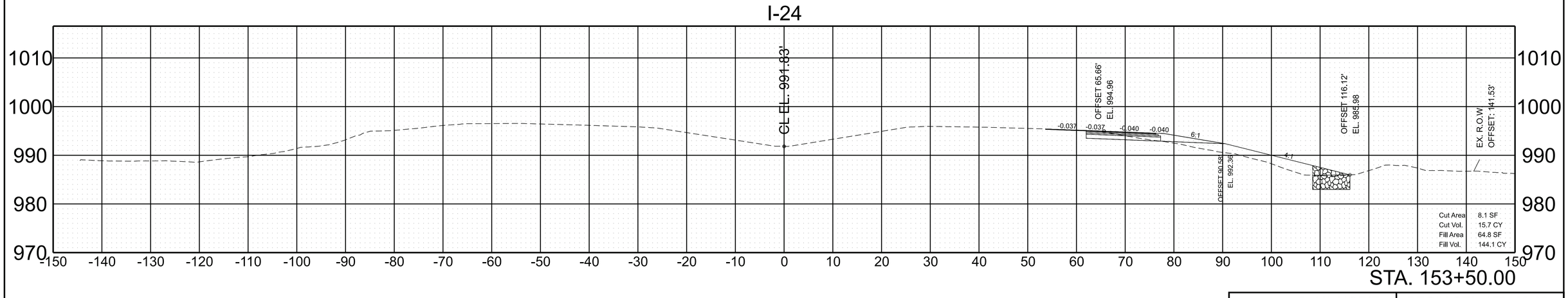


SCALE:	1"=10' HORIZ.	BEGIN STA. 152+50.00
	1"=10' VERT.	END STA. 153+00.00

5/29/2026 9:53:17 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\132953.00_WORKSETDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	58
P.I.H.	2026	31I024-S3-002	58
PS&E	2026	31I024-S3-002	63



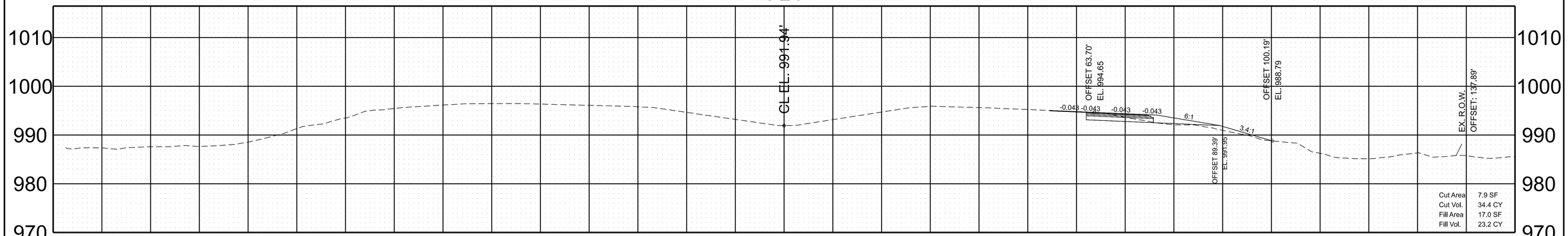


SCALE:			
	1"=10'	HORIZ.	BEGIN STA. 153+50.00
	1"=10'	VERT.	END STA. 154+00.00

5/29/2026 9:53:19 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

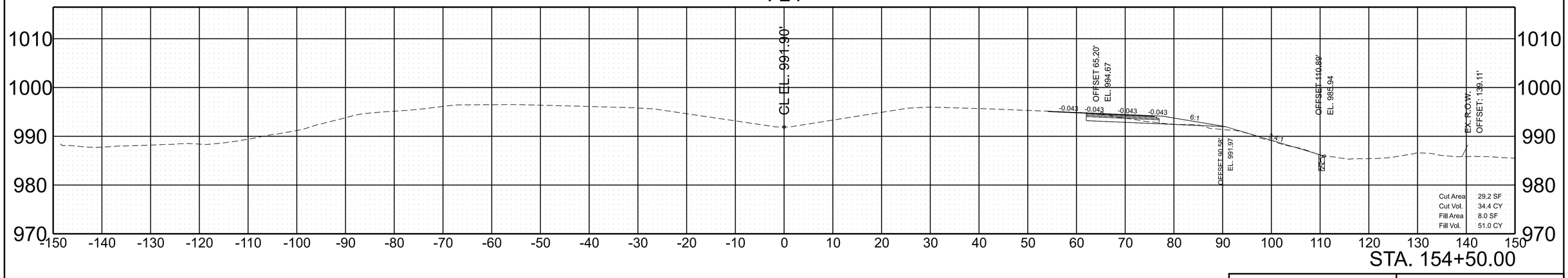
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	59
P.I.H.	2026	31I024-S3-002	59
PS&E	2026	31I024-S3-002	64

I-24



STA. 155+00.00

I-24



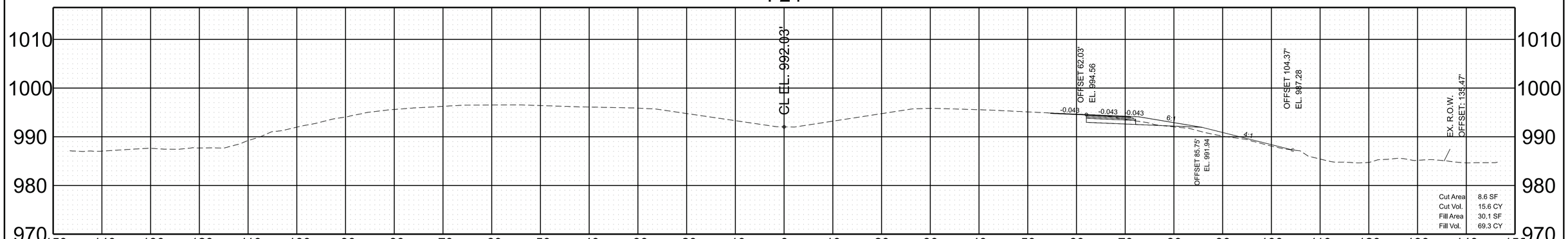
STA. 154+50.00

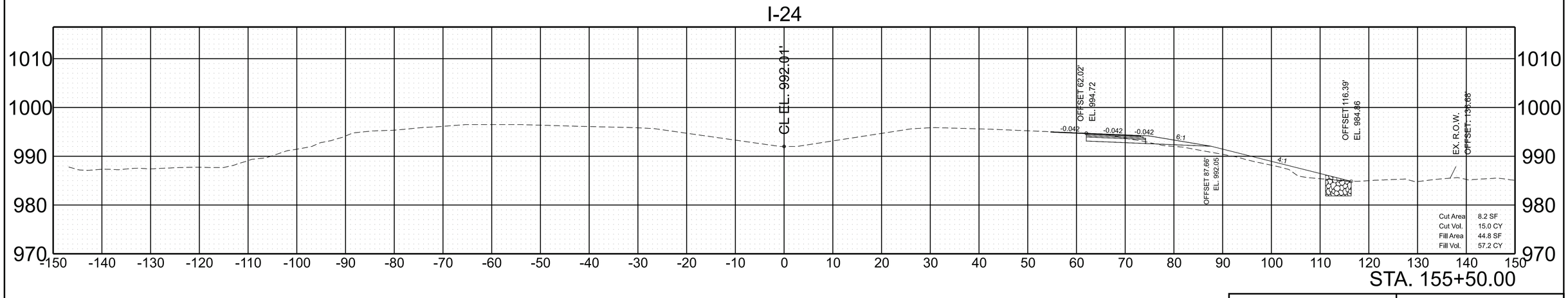
SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 154+50.00
END STA. 155+00.00

5/29/2026 9:53:21 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	60
P.I.H.	2026	31I024-S3-002	60
PS&E	2026	31I024-S3-002	65

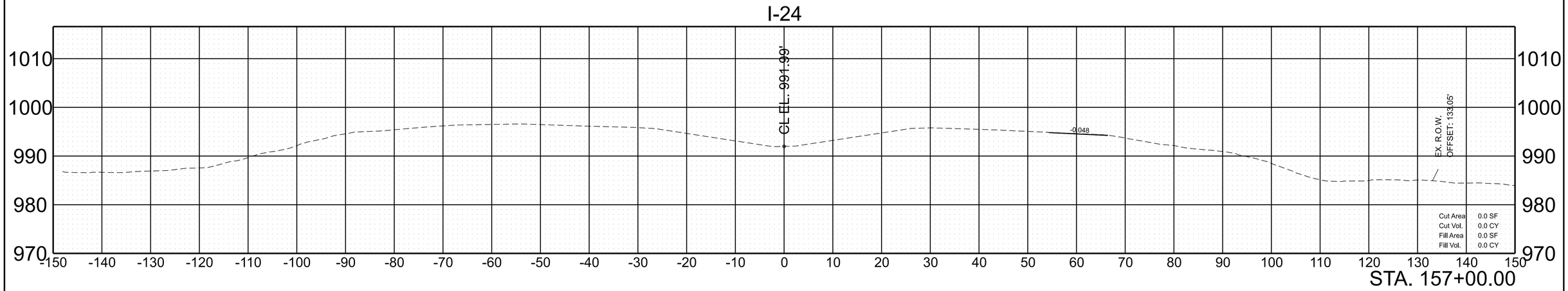


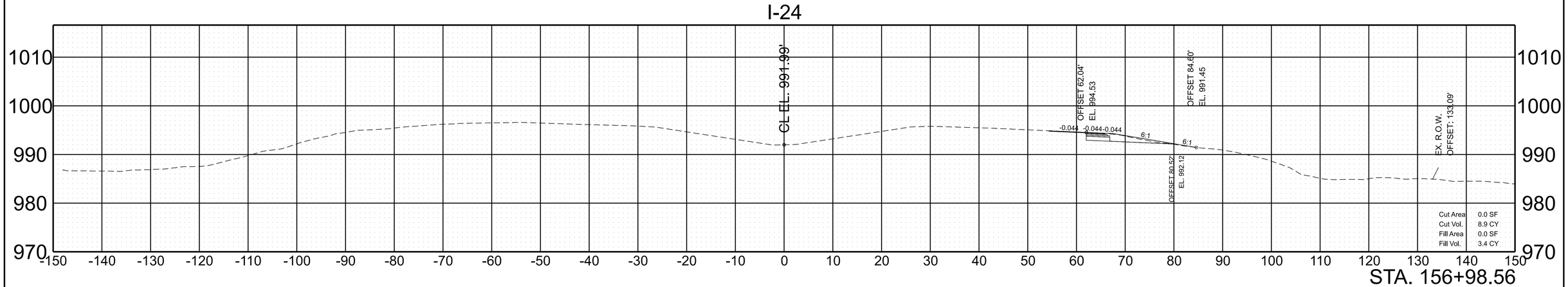


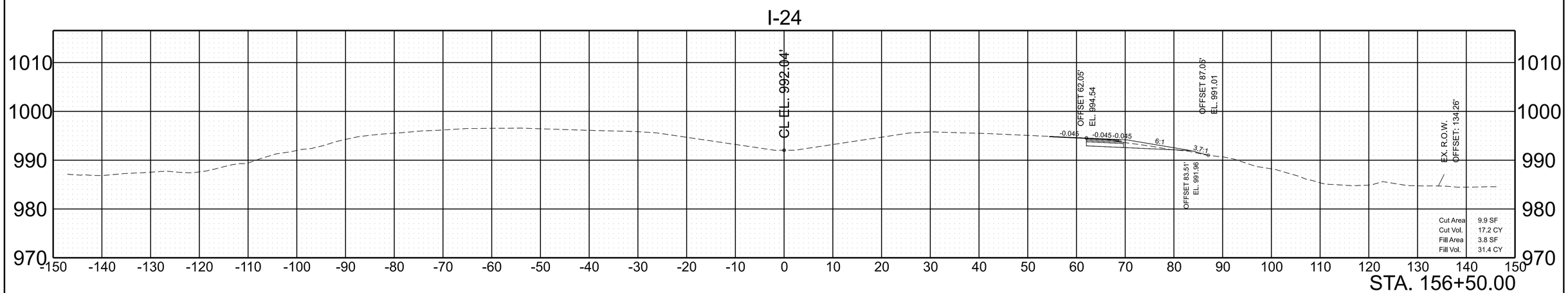
SCALE:	1"=10' HORIZ.	BEGIN STA. 155+50.00
	1"=10' VERT.	END STA. 156+00.00

5/29/2026 9:53:22 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	61
P.I.H.	2026	31I024-S3-002	61
PS&E	2026	31I024-S3-002	66



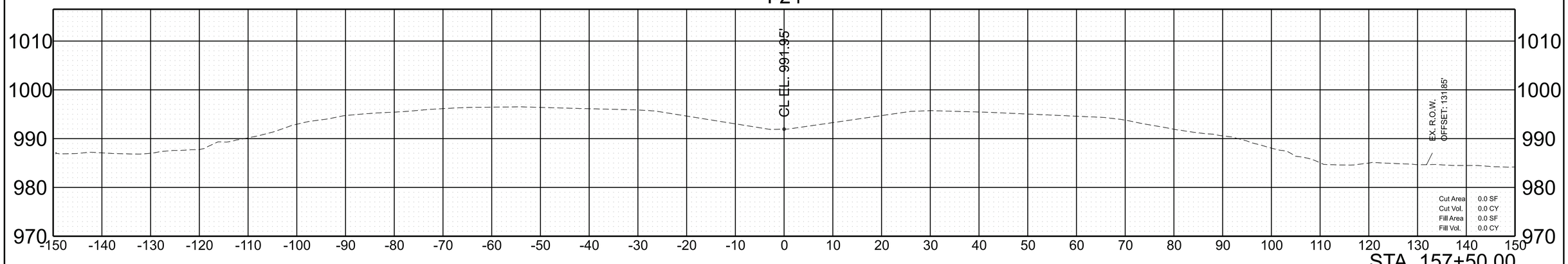


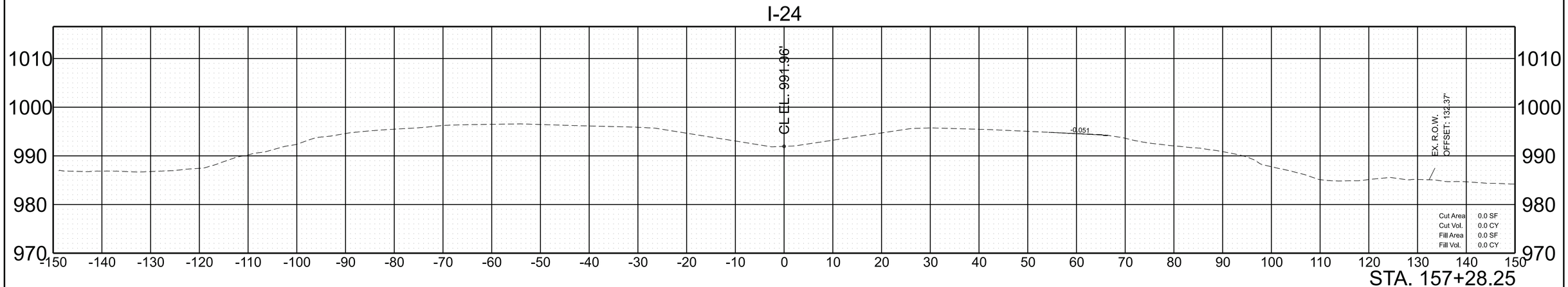


SCALE:		
	1"=10' HORIZ.	BEGIN STA. 156+50.00
	1"=10' VERT.	END STA. 157+00.00

5/29/2026 9:53:24 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSETS\1332953.00_WORKSETTDGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	62
P.I.H.	2026	31I024-S3-002	62
PS&E	2026	31I024-S3-002	67

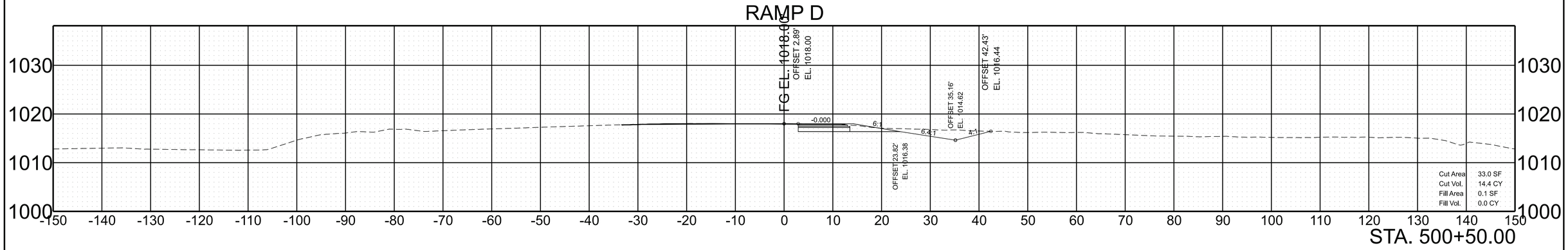


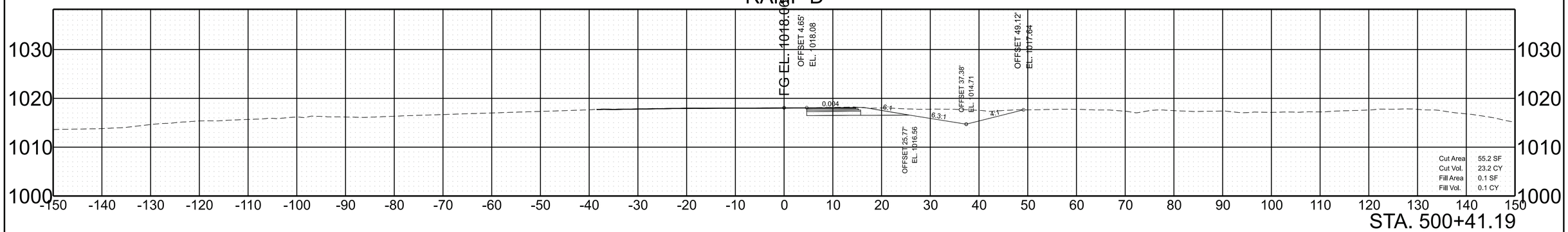


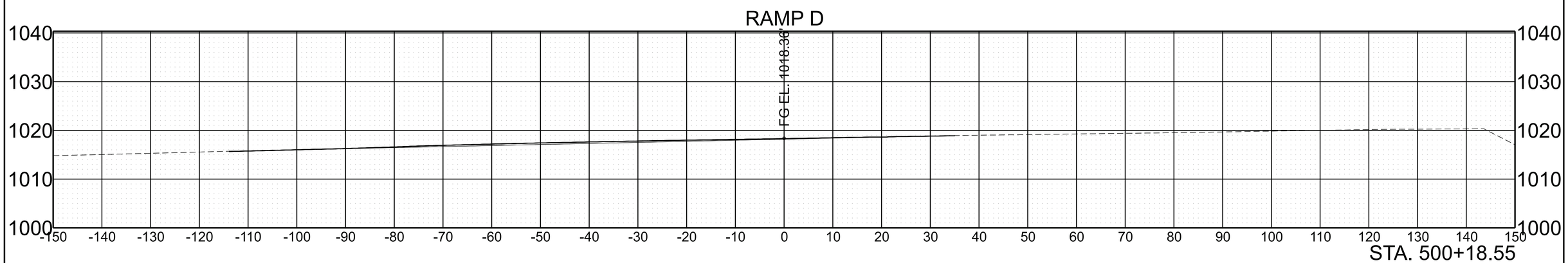
SCALE:			
	1"=10'	HORIZ.	BEGIN STA. 157+28.28
	1"=10'	VERT.	END STA. 157+50.00

5/29/2026 9:53:26 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-XS-I24.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	63
P.I.H.	2026	31I024-S3-002	63
PS&E	2026	31I024-S3-002	68





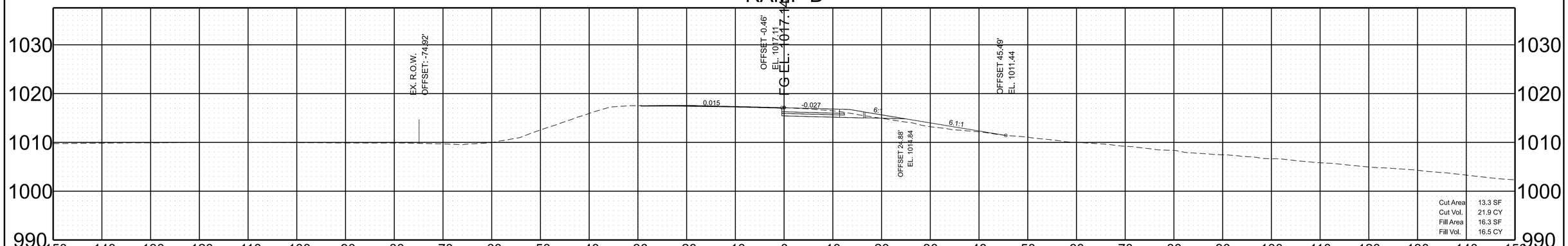


SCALE:	1"=10' HORIZ.	BEGIN STA. 500+18.49
	1"=10' VERT.	END STA. 500+50.00

5/29/2026 8:26:39 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1332953.00_WORKSET\DGN\31I024-SHT-XS-RAMPD.DGN

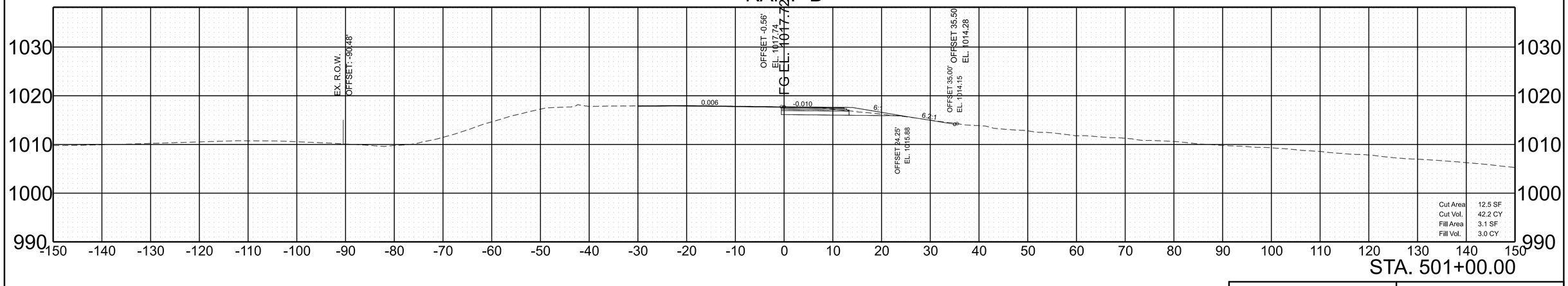
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	64
P.I.H.	2026	31I024-S3-002	64
PS&E	2026	31I024-S3-002	69

RAMP D



STA. 501+45.79

RAMP D



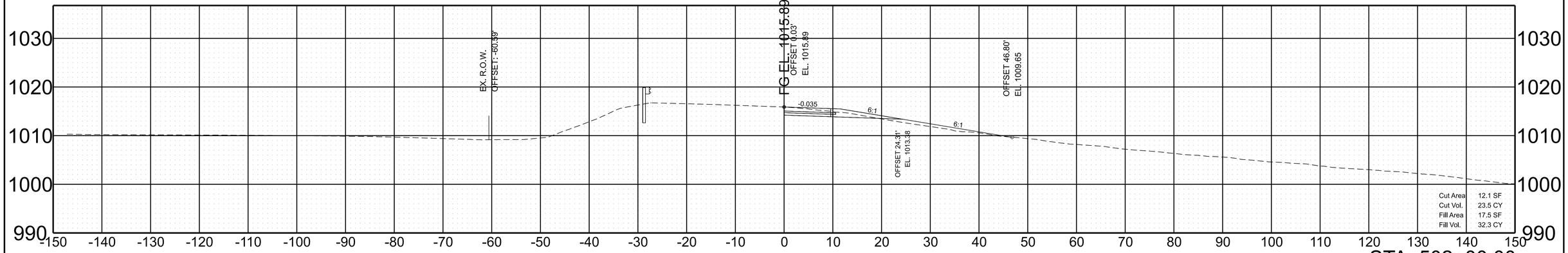
STA. 501+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 501+00.00
	1"=10' VERT.	END STA. 501+45.79

5/29/2026 8:26:42 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1332953.00_WORKSETTDGN\31I024-SHT-XS-RAMPD.DGN

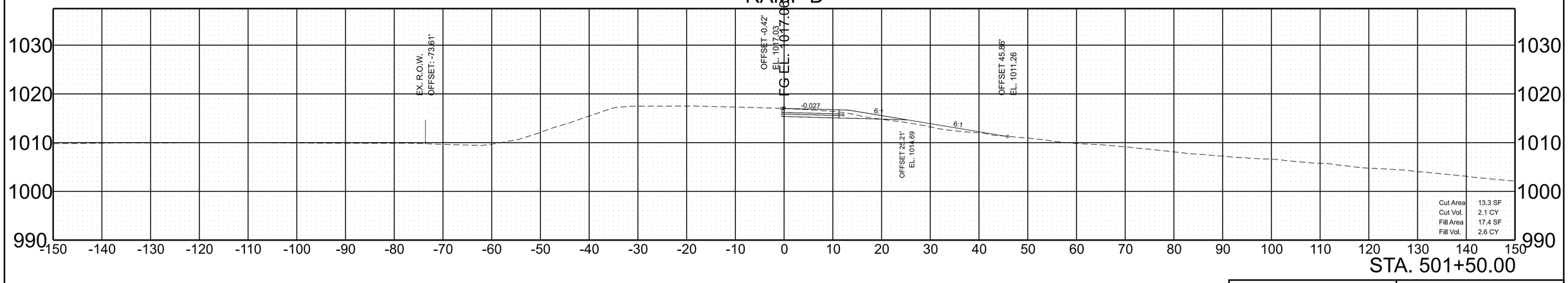
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	65
P.I.H.	2026	31I024-S3-002	65
PS&E	2026	31I024-S3-002	70

RAMP D



STA. 502+00.00

RAMP D



STA. 501+50.00

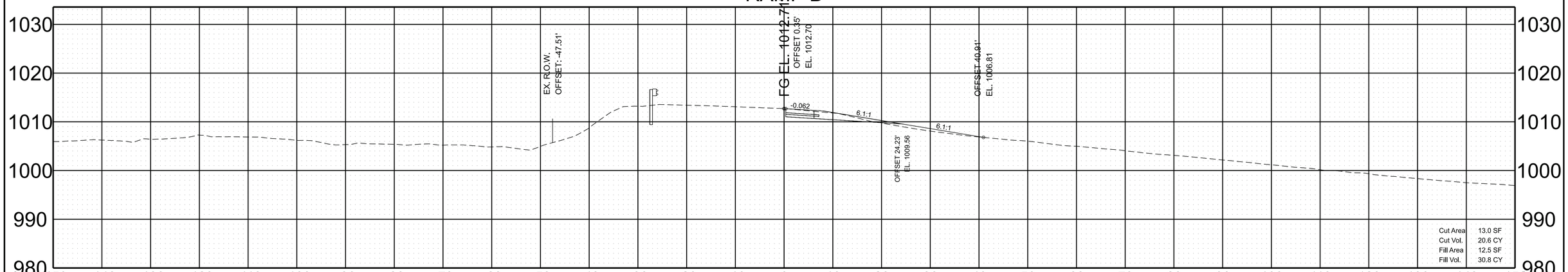
SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 501+50.00
END STA. 502+00.00

5/29/2026 8:26:43 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSETTDGN\31I024-SHT-XS-RAMPD.DGN

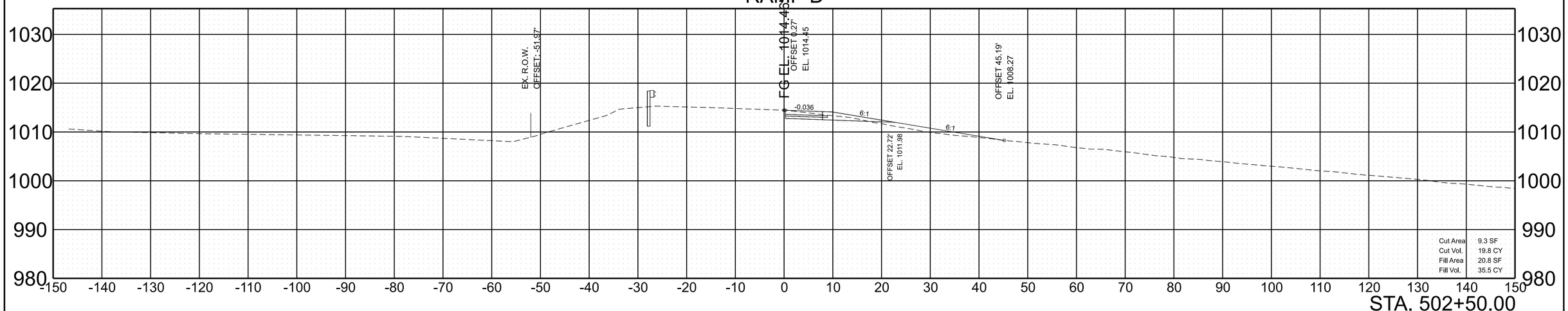
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	66
P.I.H.	2026	31I024-S3-002	66
PS&E	2026	31I024-S3-002	71

RAMP D



STA. 503+00.00

RAMP D



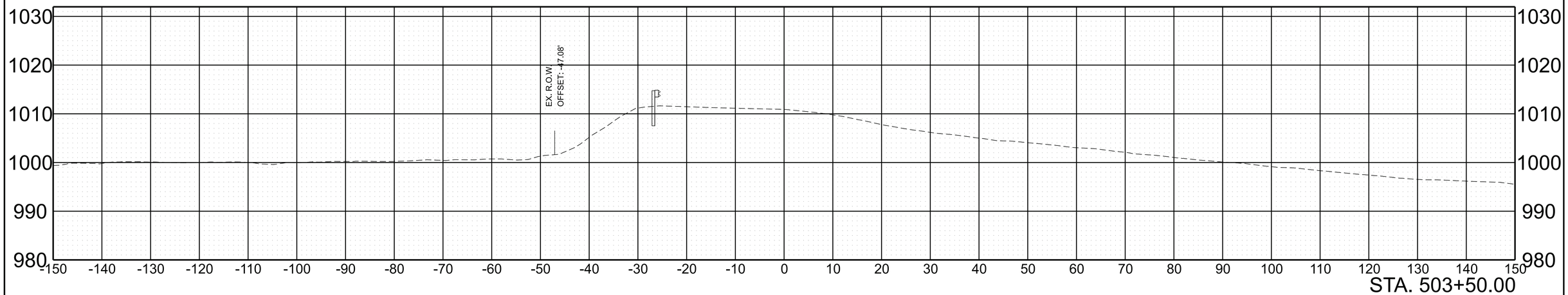
STA. 502+50.00

SCALE:		
	1"=10' HORIZ.	BEGIN STA. 502+50.00
	1"=10' VERT.	END STA. 503+00.00

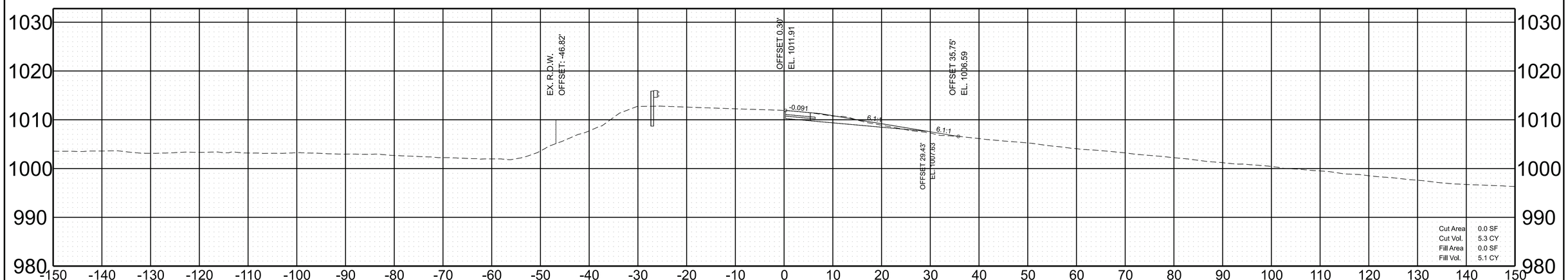
5/29/2026 8:26:44 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\1329953.00_WORKSET\DGN\31I024-SHT-XS-RAMPD.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	31I024-S0-002	67
P.I.H.	2026	31I024-S3-002	67
PS&E	2026	31I024-S3-002	72

RAMP D



STA. 503+50.00



STA. 503+22.10

SCALE:	1"=10' HORIZ.	BEGIN STA. 503+20.75
	1"=10' VERT.	END STA. 503+50.00

5/29/2026 8:26:45 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\13
2953.00_WORKSET\DGN\31I024-SHT-XS-RAMPD.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T1
PS&E	2026	31I024-S3-002	T1

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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 6 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 0.75 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:

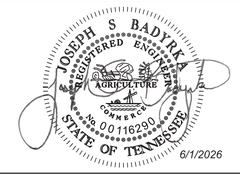
SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

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.
P.I.H.	2026	31I024-S3-002	T2
PS&E	2026	31I024-S3-002	T2

TABULATED TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PHASE I QUANTITY 31I024-S3-002	PHASE II QUANTITY 31I024-S3-002	PHASE III QUANTITY 31I024-S3-002	TOTAL QUANTITY
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	6700	550		7250
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	4	2		6
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	70	186	50	306
	712-04.50	BARRIER RAIL DELINEATOR	EACH	335	28		363
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	24			24
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	70	186	50	306
	712-06	SIGNS (CONSTRUCTION)	S.F.	317	50	248	615
(2)	712-06.16	SIGNS (CONSTRUCTION) (REDUCED SPEED WARNING)	EACH	4			4
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	144			144
(1)	712-08.03	ARROW BOARD (TYPE C)	EACH	6			6
(1)	712-08.11	QUEUE PROTECTION TRUCK	HOUR			150	150
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	2080			2080
	712-09.08	REMOVABLE PAVEMENT MARKING (6" LINE)	L.F.	2105			2105
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4			4

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	TEMPORARY ATTENUATOR
	WORK ZONE
	REMOVE PAVEMENT STRIPING
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	CHANNELIZING DRUMS
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)

TRAFFIC CONTROL FOOTNOTES

(1) TO BE USED AS DIRECTED BY THE ENGINEER.

(2) ITEM TO BE USED ONLY WHEN A REDUCED SPEED IS ESTABILISHED WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.

TRAFFIC CONTROL SIGN TABULATION

M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L	X	W	S.F.	NO. REQUIRED PHASE I	NO. REQUIRED PHASE II	NO. REQUIRED PHASE III	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
G20-2	END ROAD WORK	36"	X	16"	4	2	2	2	2	8.00	T-WZ-64	TO REMAIN IN PLACE UNTIL COMPLETION OF PHASE III
G20-2	END ROAD WORK	48"	X	24"	8	4	4	4	4	32.00	T-WZ-18	TO REMAIN IN PLACE UNTIL COMPLETION OF PHASE III
TN-44	WORKERS PRESENT	78"	X	60"	33	4	4	4	4		T-WZ-60	8 SIGNS TO BE PAID FOR UNDER 712-06.16
W5-4	RAMP NARROWS	48"	X	48"	16	1	1		1	16.00		
W7-3aP	NEXT (DISTANCE) MILES (PLAQUE)	36"	X	30"	8	2			2	15.00	T-WZ-60	
W8-11	UNEVEN LANES	36"	X	36"	9			2	2	18.00	T-WZ-60	
W8-11	UNEVEN LANES	48"	X	48"	16			4	4	64.00	T-WZ-60	
W8-15	GROOVED PAVEMENT	36"	X	36"	9			2	2	18.00	T-WZ-60	
W8-15	GROOVED PAVEMENT	48"	X	48"	16			4	4	64.00	T-WZ-60	
W8-15aP	MOTORCYCLE (PLAQUE)	30"	X	24"	5			4	4	20.00	T-WZ-60	
W13-4P	ON RAMP (PLAQUE)	36"	X	36"	9		2		2	18.00		
W20-1	ROAD WORK AHEAD	36"	X	36"	9	4	2	4	4	36.00	T-WZ-63	
W20-1	ROAD WORK 1/2 MILE	48"	X	48"	16	4	4	4	4	64.00	T-WZ-63	TO REMAIN IN PLACE UNTIL COMPLETION OF PHASE III
W20-1	ROAD WORK 1 MILE	48"	X	48"	16	4	4	4	4	64.00	T-WZ-63	TO REMAIN IN PLACE UNTIL COMPLETION OF PHASE III
W21-2	FRESH OIL	48"	X	48"	16			4	4	64.00	T-WZ-60	
W21-5aL	LEFT SHOULDER CLOSED	48"	X	48"	16		1		1	16.00	T-WZ-18	
W21-5aR	RIGHT SHOULDER CLOSED	48"	X	48"	16	2			2	32.00	T-WZ-18	
W21-5aR	RIGHT SHOULDER CLOSED	36"	X	36"	9	2			2	18.00	T-WZ-18	
W21-5bL	LEFT SHOULDER CLOSED 1500 FT	48"	X	48"	16		1		1	16.00	T-WZ-18	
W21-5bR	RIGHT SHOULDER CLOSED 1500 FT	48"	X	48"	16	2			2	32.00	T-WZ-18	
									TOTAL	615	S.F.	

TRAFFIC CONTROL PHASING NOTES

PHASE 1:

1. INSTALL ADVANCED WARNING SIGNS PRIOR TC ANY CONSTRUCTION ACTIVITIES
2. PLACE ALL TEMPORARY MEASURES
3. CLOSE OUTSIDE SHOULDERS
4. REMOVE RAMP D ISLAND & BUILD UP THROUGH BINDER LAYER
5. EXTEND DRAINAGE FEATURES PER PLANS
6. CONSTRUCT EXTENDED RAMPS THROUGH BINDER LAYER
7. REMOVE EX. GUARDRAIL & PLACE PROPOSED GUARDRAIL ALONG RAMP DWB EXIT RAMP
8. PLACE ALL SIGNS TO BE RELOCATED IN THEIR NEW LOCATIONS
9. INSTALL RAMP LIGHTING PER PLANS

PHASE 2:

1. MOVE TEMPORARY MEASURES
2. SHIFT TRAFFIC ON RAMP D
3. CONSTRUCT RAMP D WIDENED SHOULDER THROUGH BINDER LAYER
4. INSTALL HIGH MAST LIGHTING PER PLANS

PHASE 3:

1. ADJUST TEMPORARY MEASURES & SIGNS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAGE DURING CONSTRUCTION AND SHALL ADJUST SIGN LOCATION IF NECESSARY PRIOR TO PHASE 3.
2. COLD PLANE RESURFACING AREAS
3. PERFORM FINAL PAVING ACTIVITIES ON RESURFACING AND EXTENDED AREAS
4. PLACE PERMANENT STRIPING

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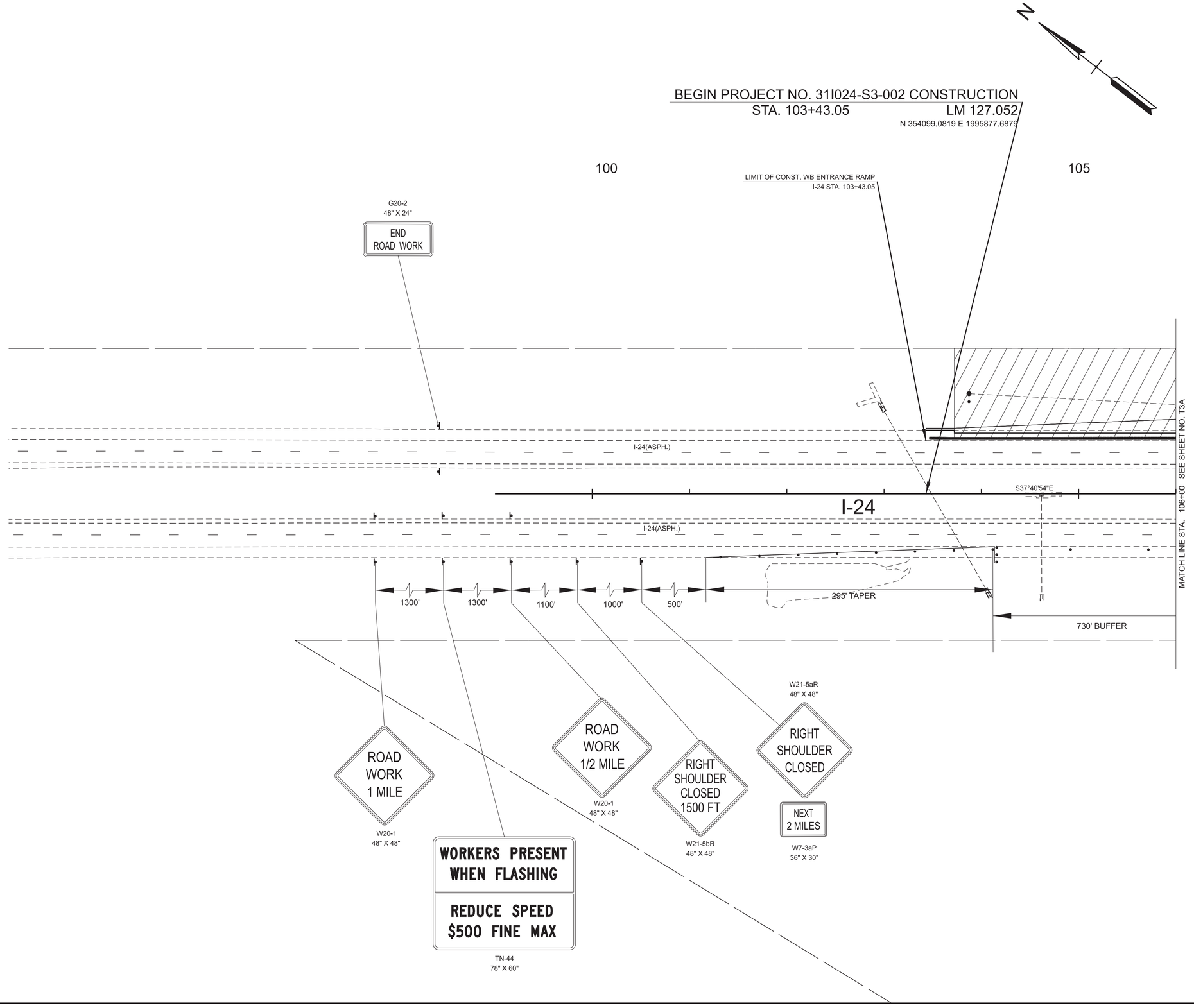
JOSEPH S BADYRKA
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 0116290
6/1/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PHASING NOTES, LEGEND AND TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3
PS&E	2026	31I024-S3-002	T3



PHASE I

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JOSEPH S BADYRKA
REGISTERED ENGINEER
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

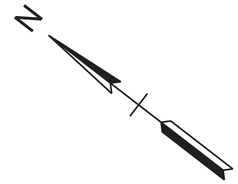
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 94+00.00 TO STA. 106+00.00
SCALE: 1" = 50'

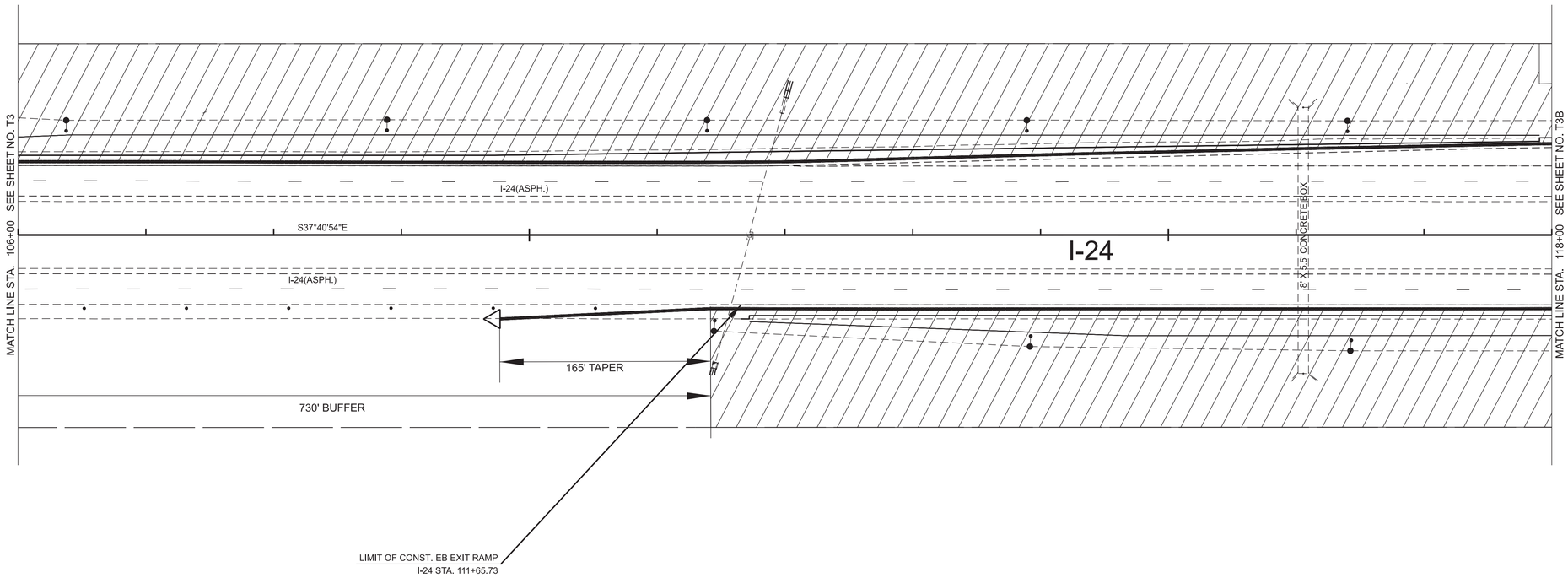
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3A
PS&E	2026	31I024-S3-002	T3A



110

115



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JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

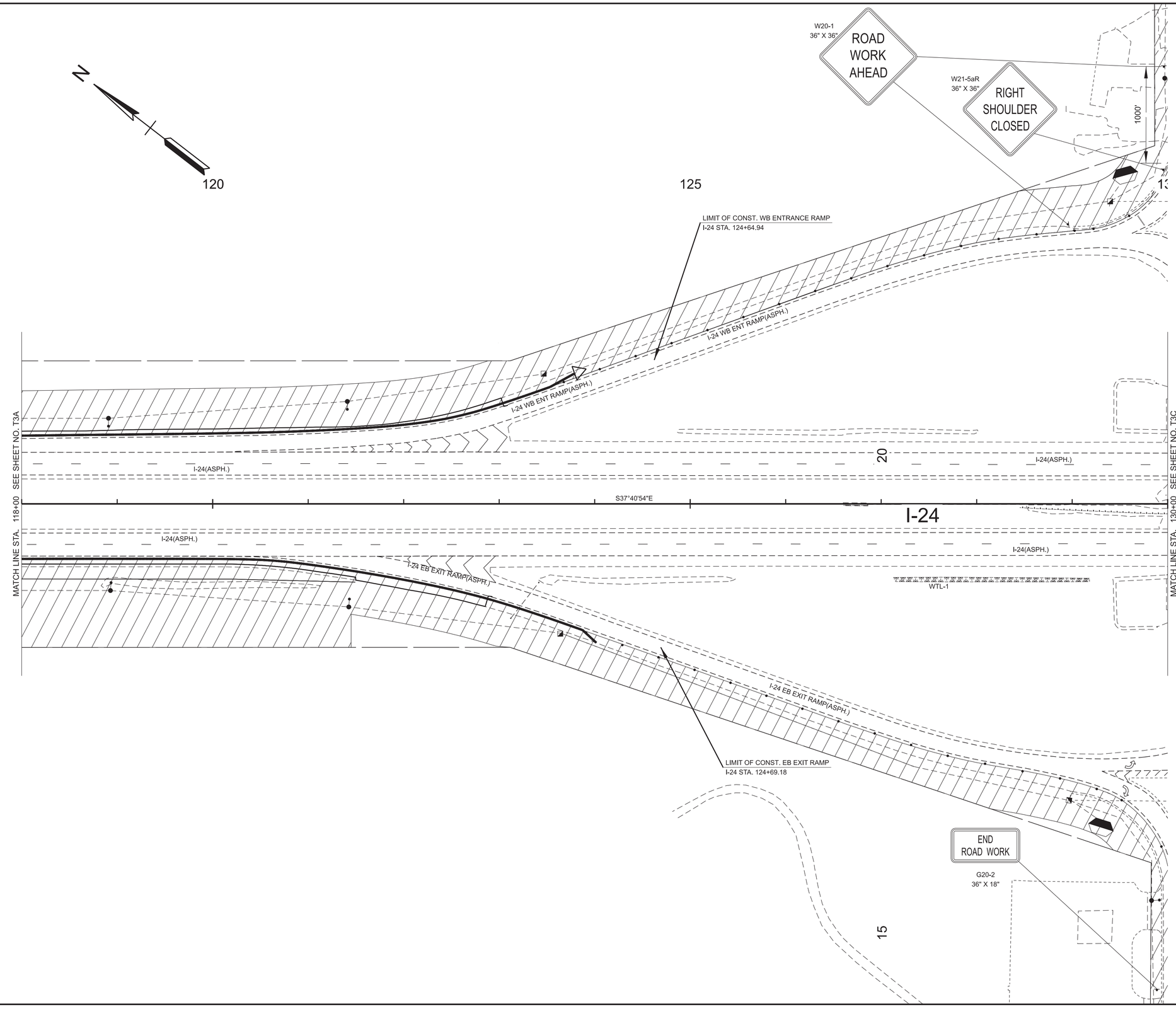
TRAFFIC CONTROL PLANS

STA. 106+00.00 TO STA. 118+00.00
SCALE: 1" = 50'

PHASE I

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3B
PS&E	2026	31I024-S3-002	T3B



PHASE I

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JOSEPH S BADYRA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 118+00.00 TO STA. 130+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3C
PS&E	2026	31I024-S3-002	T3C

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

RIGHT TURN LANE AND SHOULDER THROUGH RADIUS CAN BE OPENED TO TRAFFIC ONCE ISLAND REMOVAL, PAVING, SCARIFICATION, CURB REMOVAL, GUARDRAIL INSTALLATION, AND LIGHTING INSTALLATION ARE COMPLETE.

END ROAD WORK
G20-2
36" X 18"

REMOVABLE 6" SSWL

BEGIN EX STRIPE REMOVAL

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

135

140

W5-4
48" X 48"
RAMP NARROWS

500

S37°41'13"E

SR-50(ASPH.)

SR-50

A A
TYPE III BARRICADE w/ TYPE A WARNING LIGHTS

RAMP D

505

END EX STRIPE REMOVAL

S17°40'56"E

WTL-3

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

I-24 WB EXIT RAMP(ASPH.)

I-24(ASPH.)

S37°40'54"E

SEE SHEET NO. T3B
MATCH LINE STA. 130+00

SEE SHEET NO. T3D
MATCH LINE STA. 142+00

SINK HOLE

I-24(ASPH.)

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

I-24 EB ENT RAMP(ASPH.)

WTL-2

SR-50(ASPH.)

I-24 EB ENT RAMP(ASPH.)

W21-5aR
36" X 36"

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 136+12.95

RIGHT SHOULDER CLOSED

ROAD WORK AHEAD

W20-1
36" X 36"

1000'

N52°18'47"E

ONLY

SEALED BY

JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

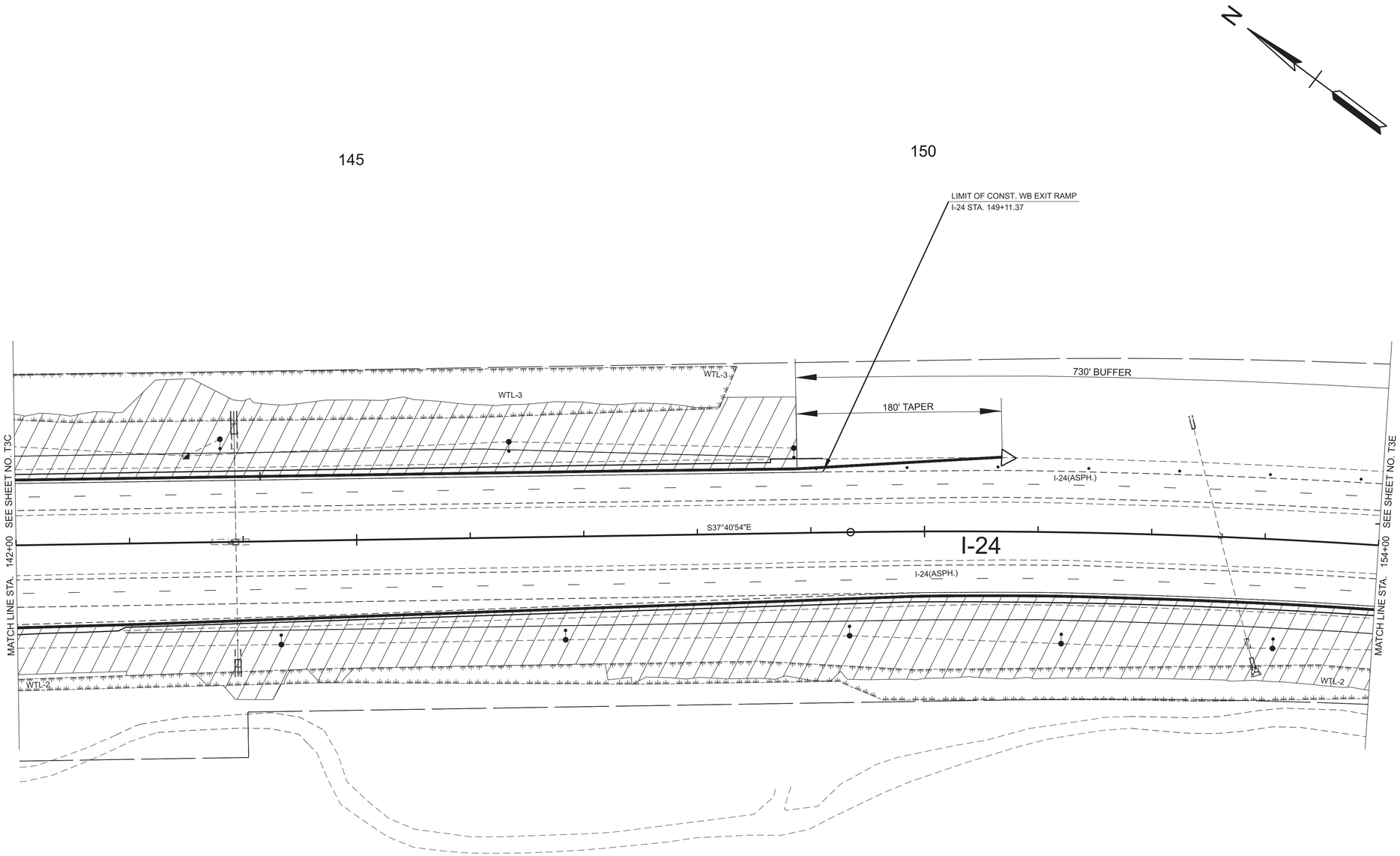
TRAFFIC CONTROL PLANS

STA. 130+00.00 TO STA. 142+00.00
SCALE: 1" = 50'

PHASE I

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C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSET\DGN\31I024-SHT-TRAFFIC CONTROL PH1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3D
PS&E	2026	31I024-S3-002	T3D



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

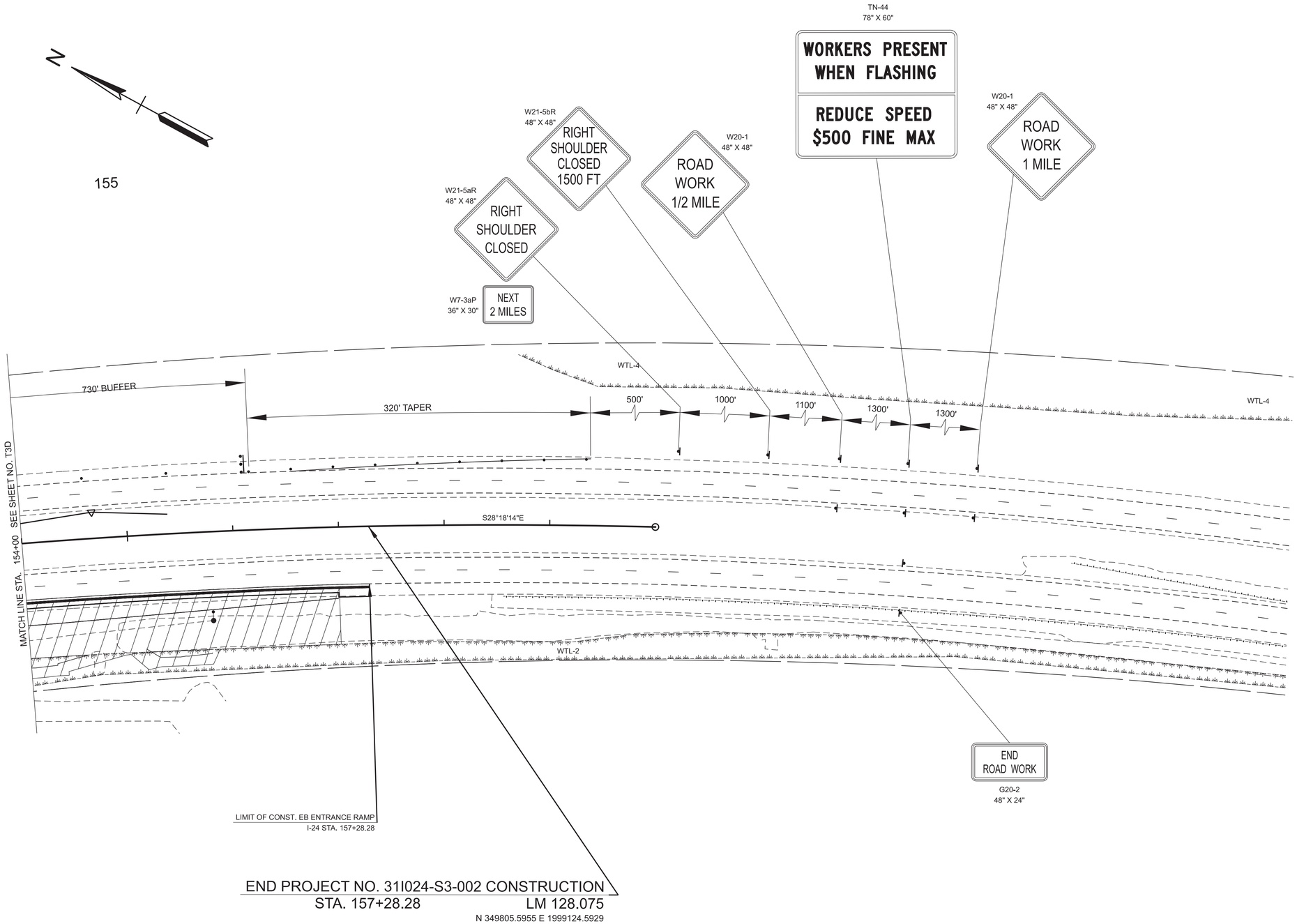
TRAFFIC CONTROL PLANS

STA. 142+00.00 TO STA. 154+00.00
SCALE: 1" = 50'

PHASE I

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T3E
PS&E	2026	31I024-S3-002	T3E



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

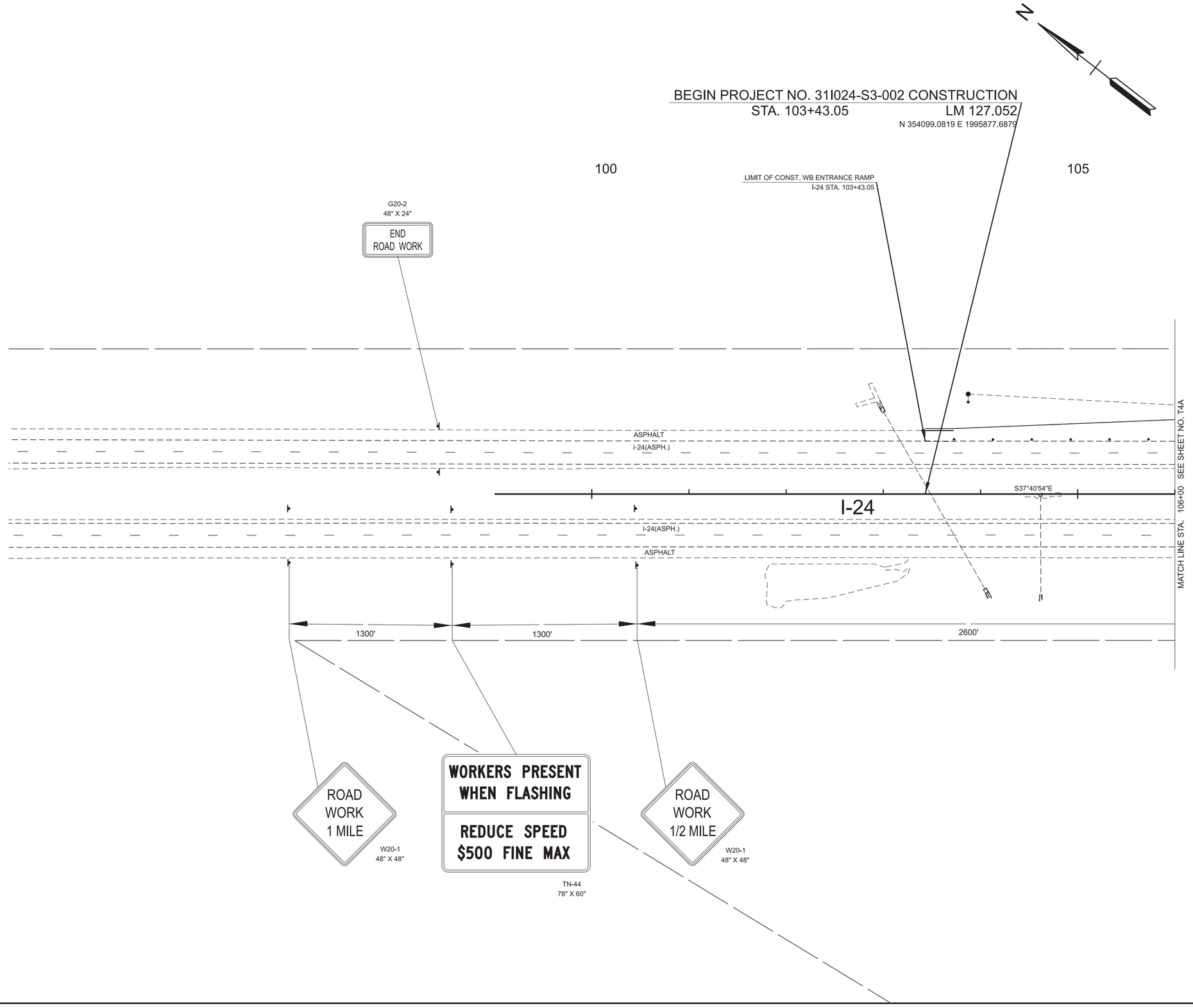
TRAFFIC CONTROL PLANS

STA. 154+00.00 TO STA. 166+00.00
SCALE: 1" = 50'

PHASE I

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4
PS&E	2026	31I024-S3-002	T4



PHASE II

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JOSEPH S BADYRKA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

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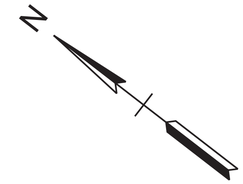
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 94+00.00 TO STA. 106+00.00
SCALE: 1" = 50'

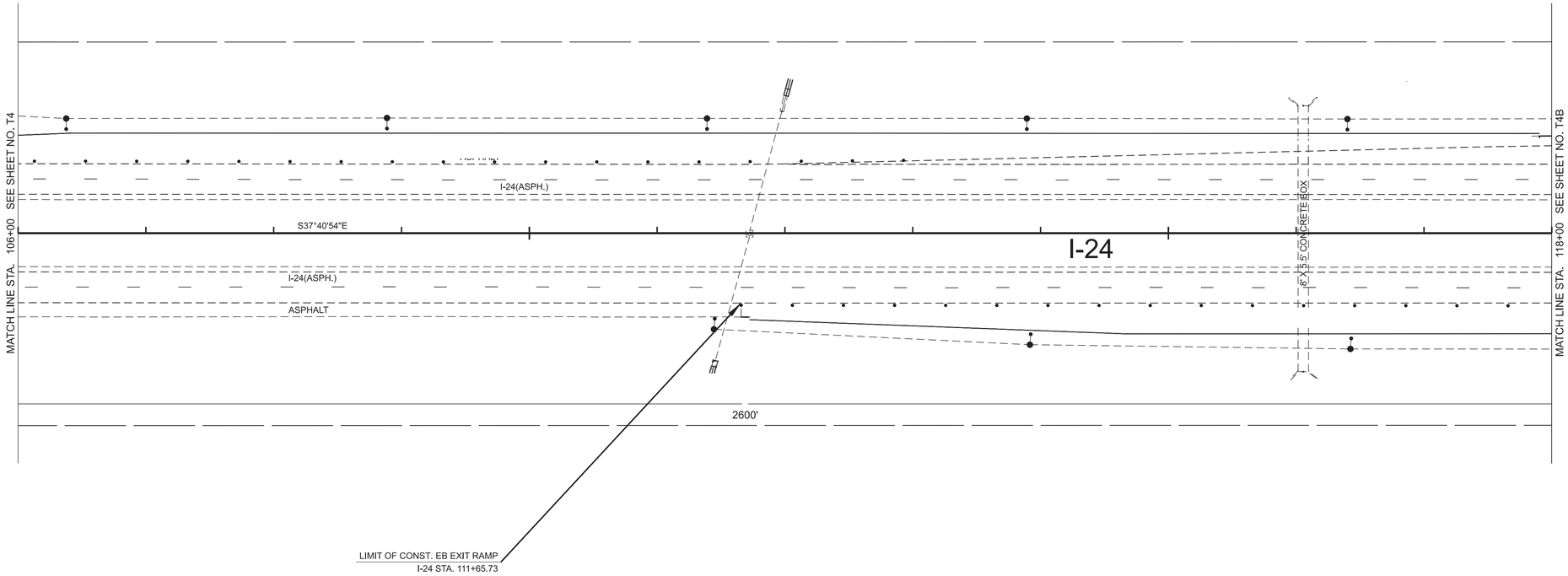
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4A
PS&E	2026	31I024-S3-002	T4A



110

115



PHASE II

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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

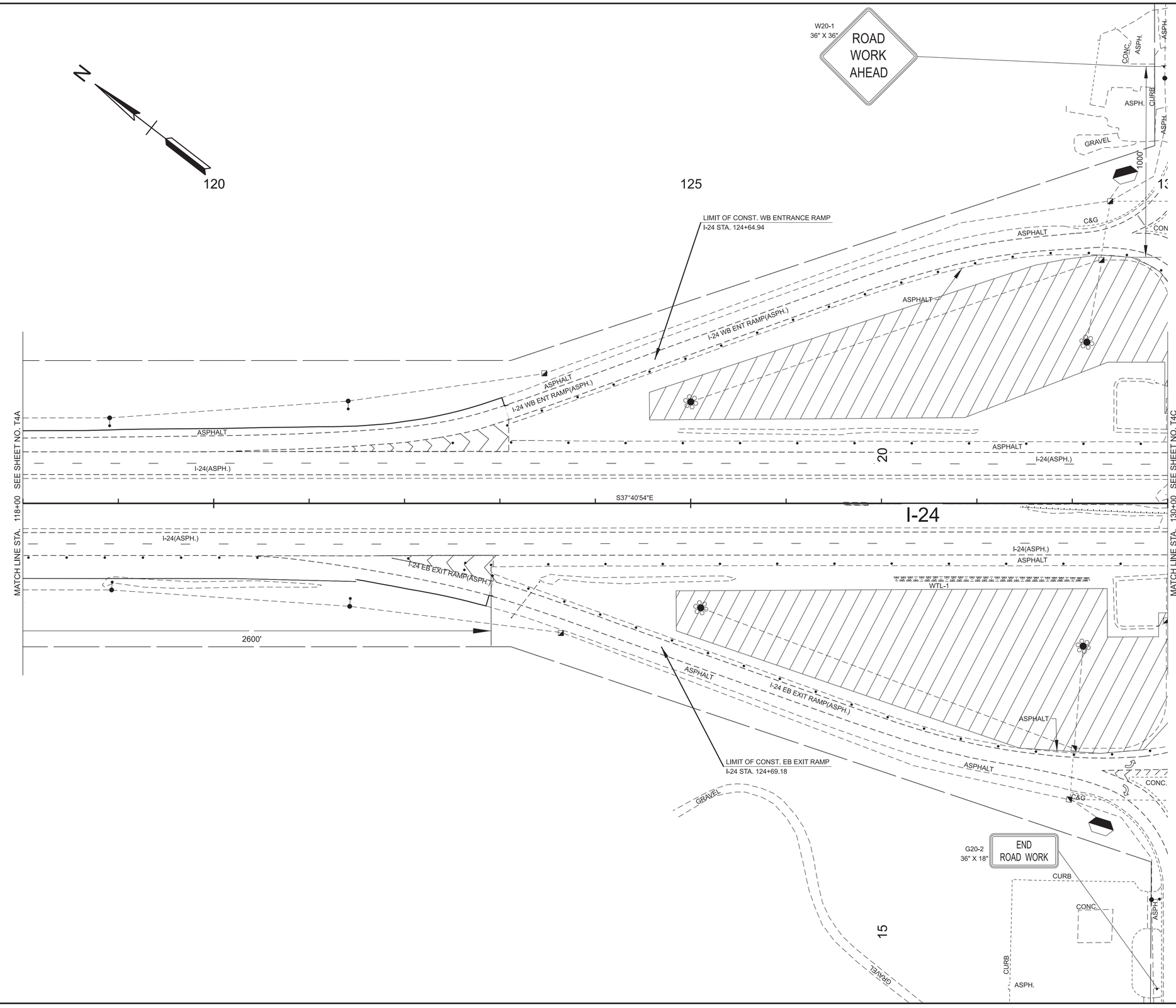
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 106+00.00 TO STA. 118+00.00
SCALE: 1" = 50'

6/1/2026 2:02:17 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4B
PS&E	2026	31I024-S3-002	T4B



PHASE II

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0116290
STATE OF TENNESSEE
6/1/2026

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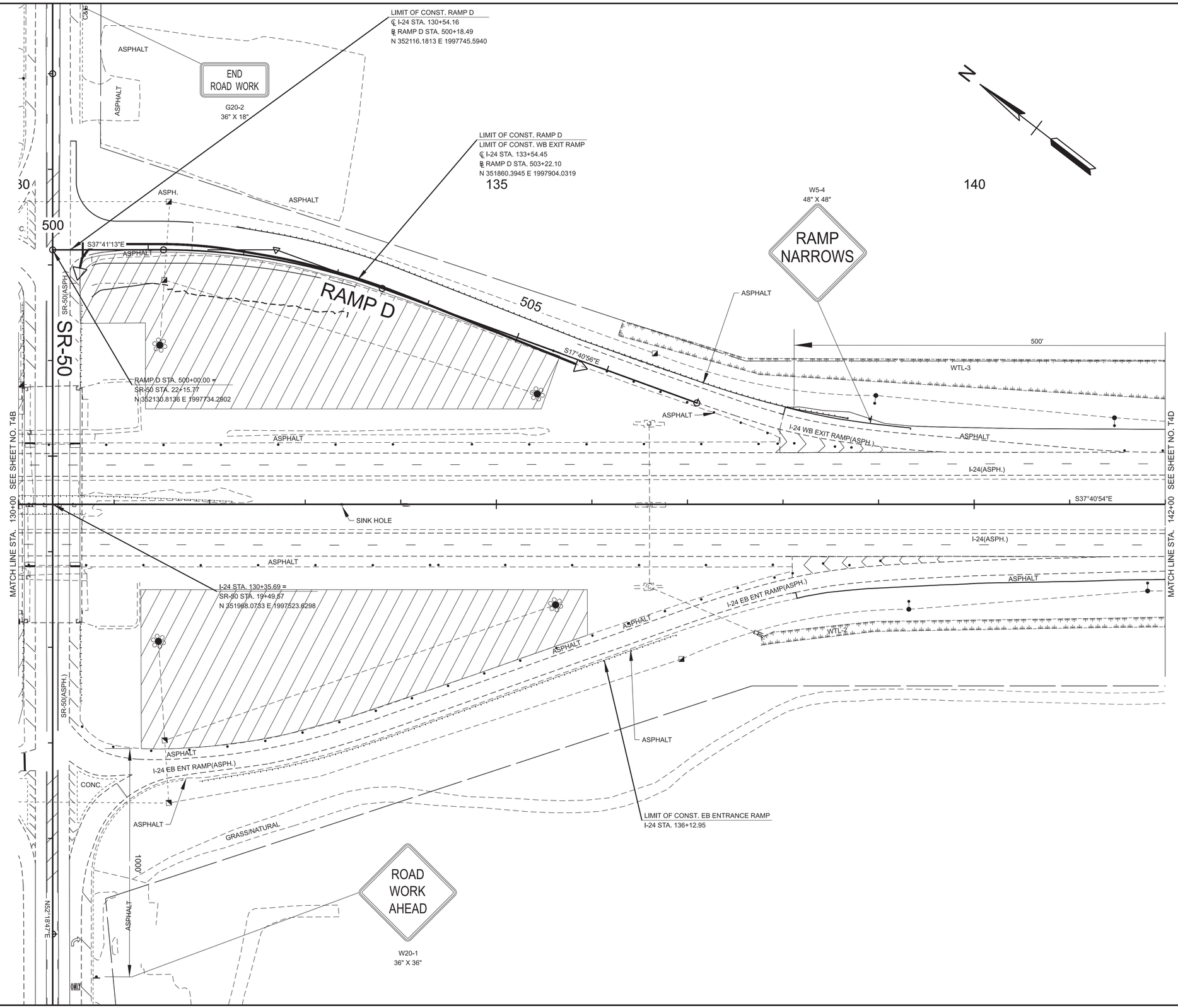
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 118+00.00 TO STA. 130+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4C
PS&E	2026	31I024-S3-002	T4C



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STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

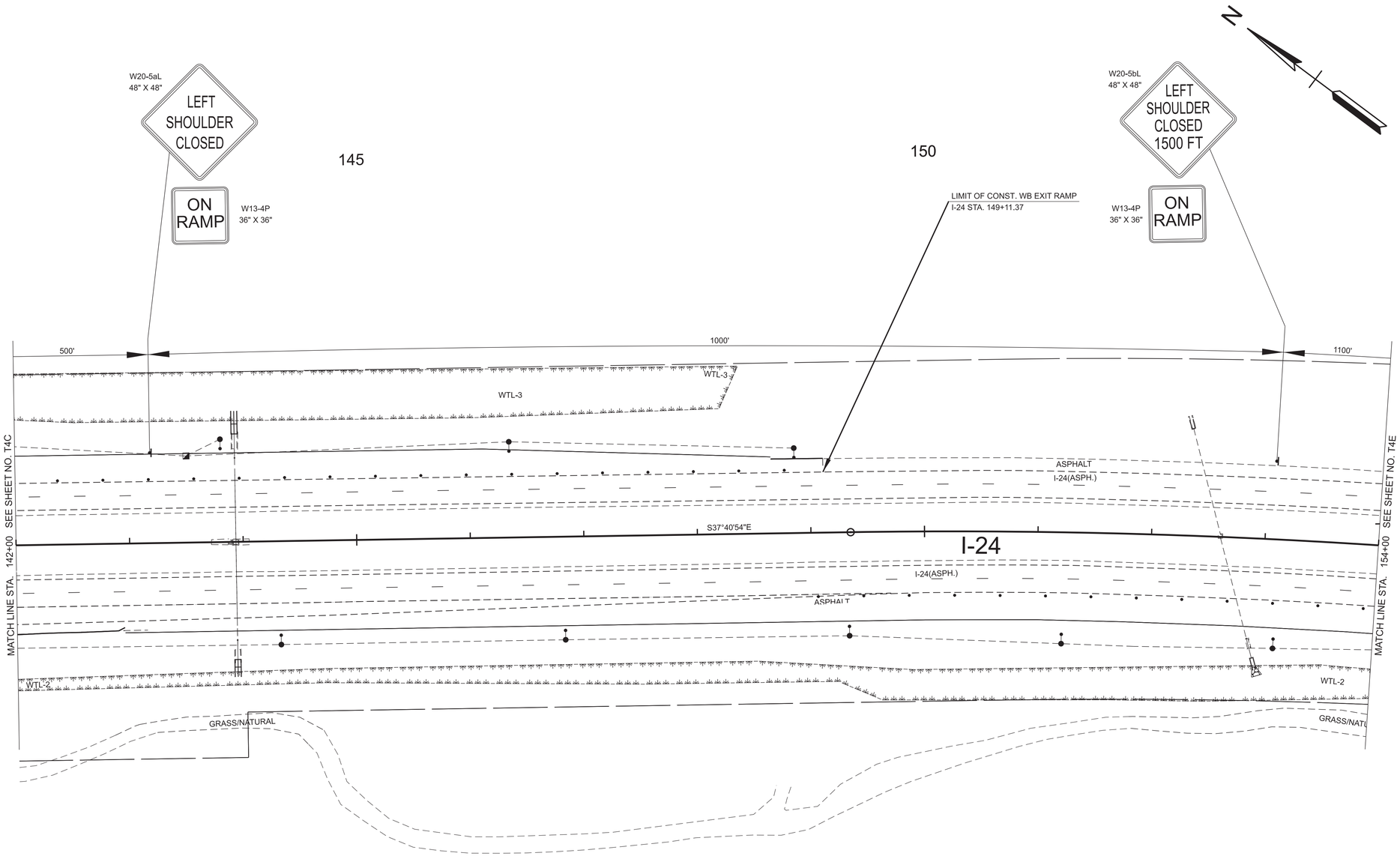
TRAFFIC CONTROL PLANS

STA. 130+00.00 TO STA. 142+00.00
SCALE: 1" = 50'

PHASE II

6/1/2026 2:04:43 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4D
PS&E	2026	31I024-S3-002	T4D



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

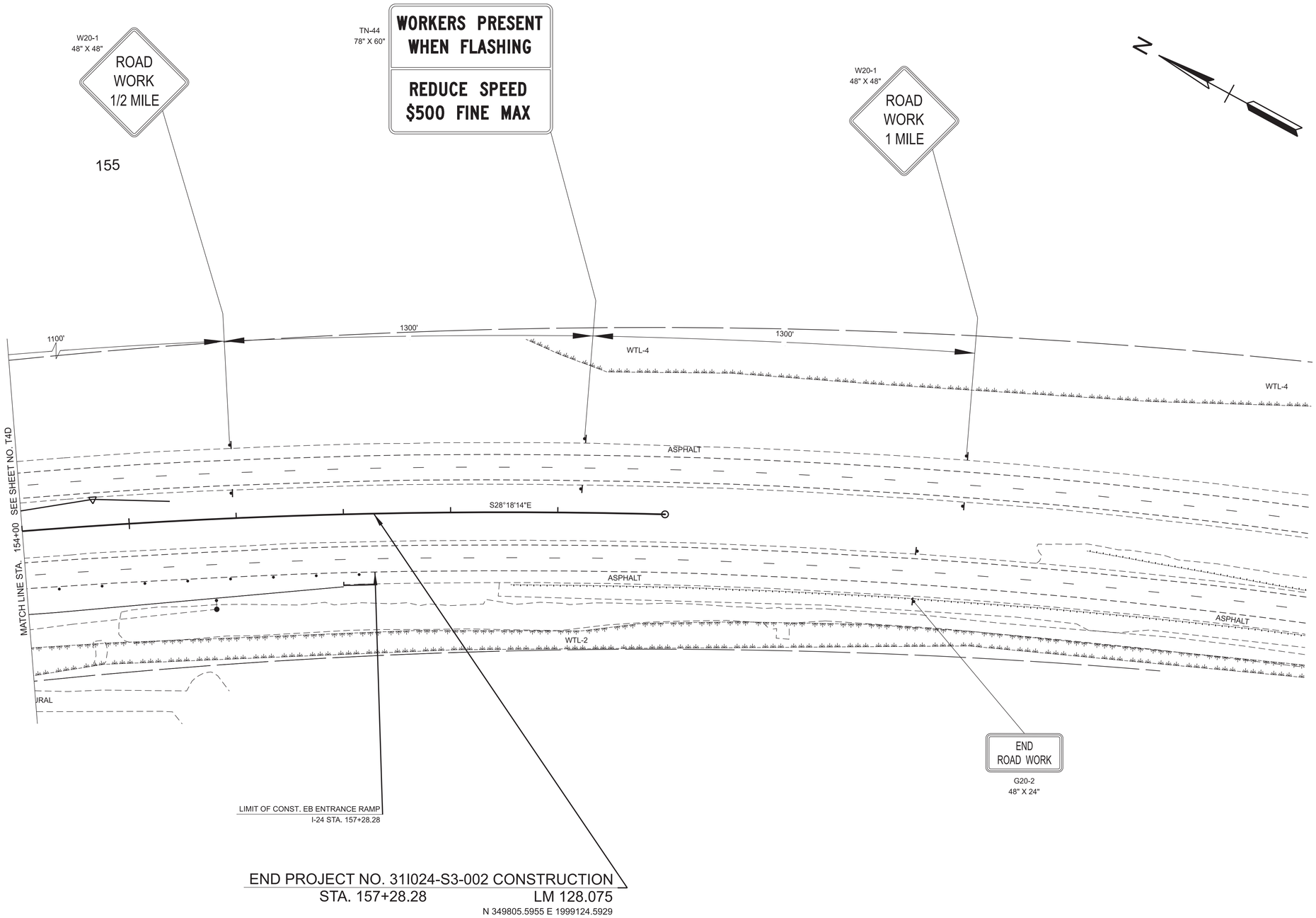
TRAFFIC CONTROL PLANS

STA. 142+00.00 TO STA. 154+00.00
SCALE: 1" = 50'

PHASE II

6/1/2026 2:05:43 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T4E
PS&E	2026	31I024-S3-002	T4E



END PROJECT NO. 31I024-S3-002 CONSTRUCTION
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

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COMMERCE
No. 0 0116290
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STATE OF TENNESSEE
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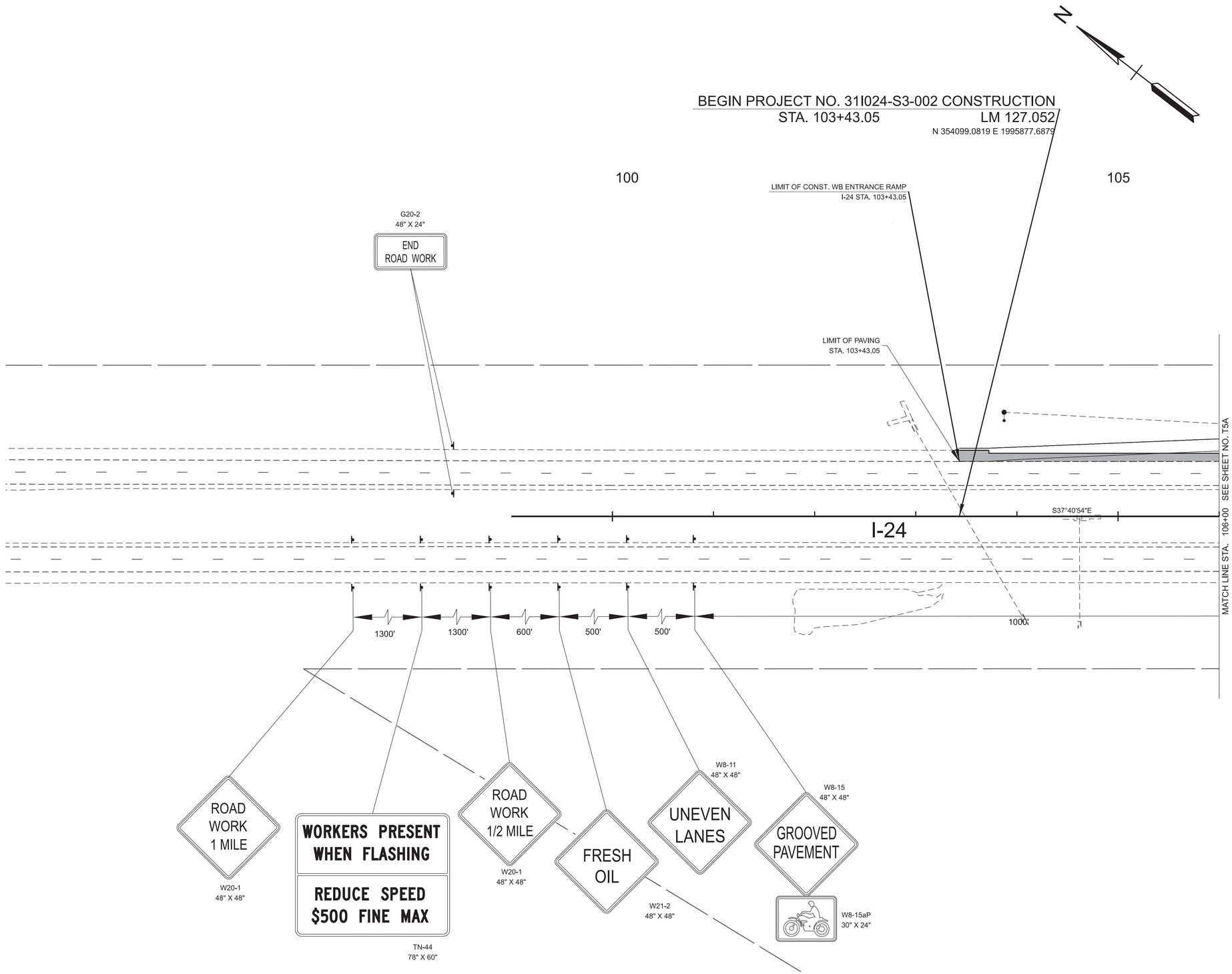
TRAFFIC CONTROL PLANS

STA. 154+00.00 TO STA. 166+00.00
SCALE: 1" = 50'

PHASE II

6/1/2026 2:06:47 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5
PS&E	2026	31I024-S3-002	T5



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6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

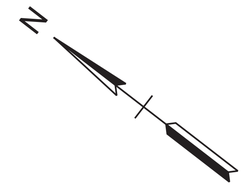
TRAFFIC CONTROL PLANS

STA. 94+00.00 TO STA. 106+00.00
SCALE: 1" = 50'

PHASE III

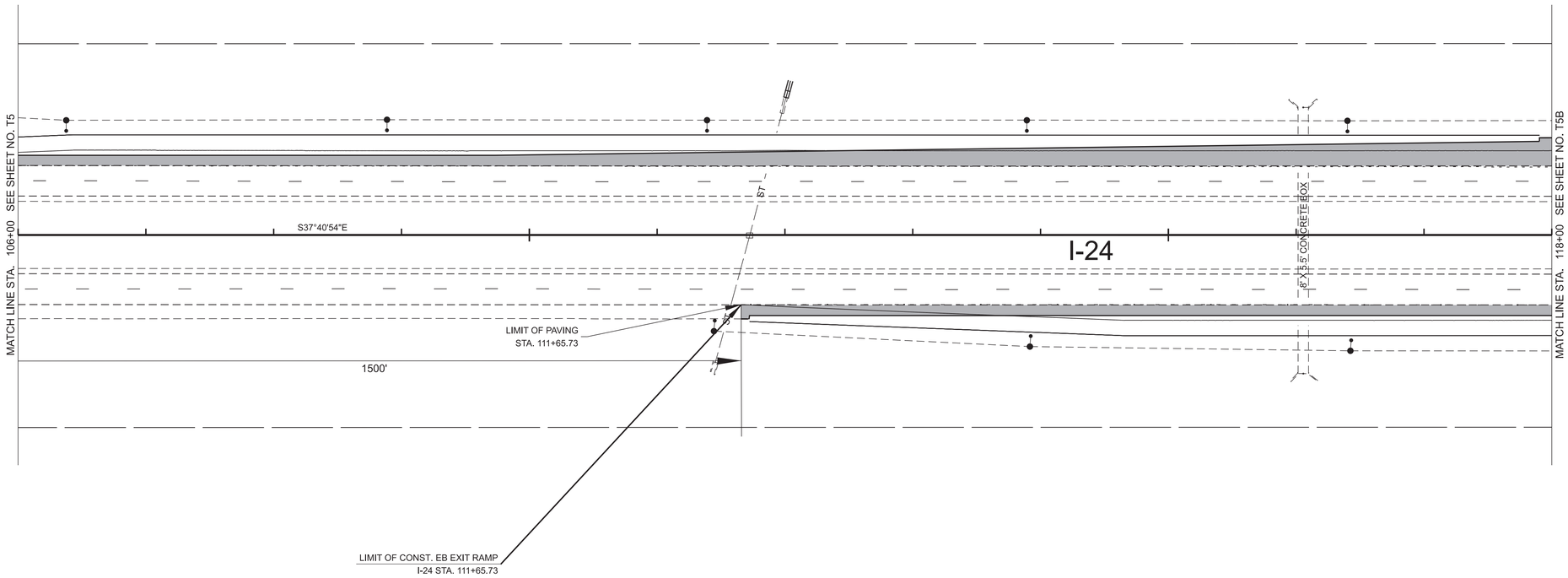
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5A
PS&E	2026	31I024-S3-002	T5A



110

115



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STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

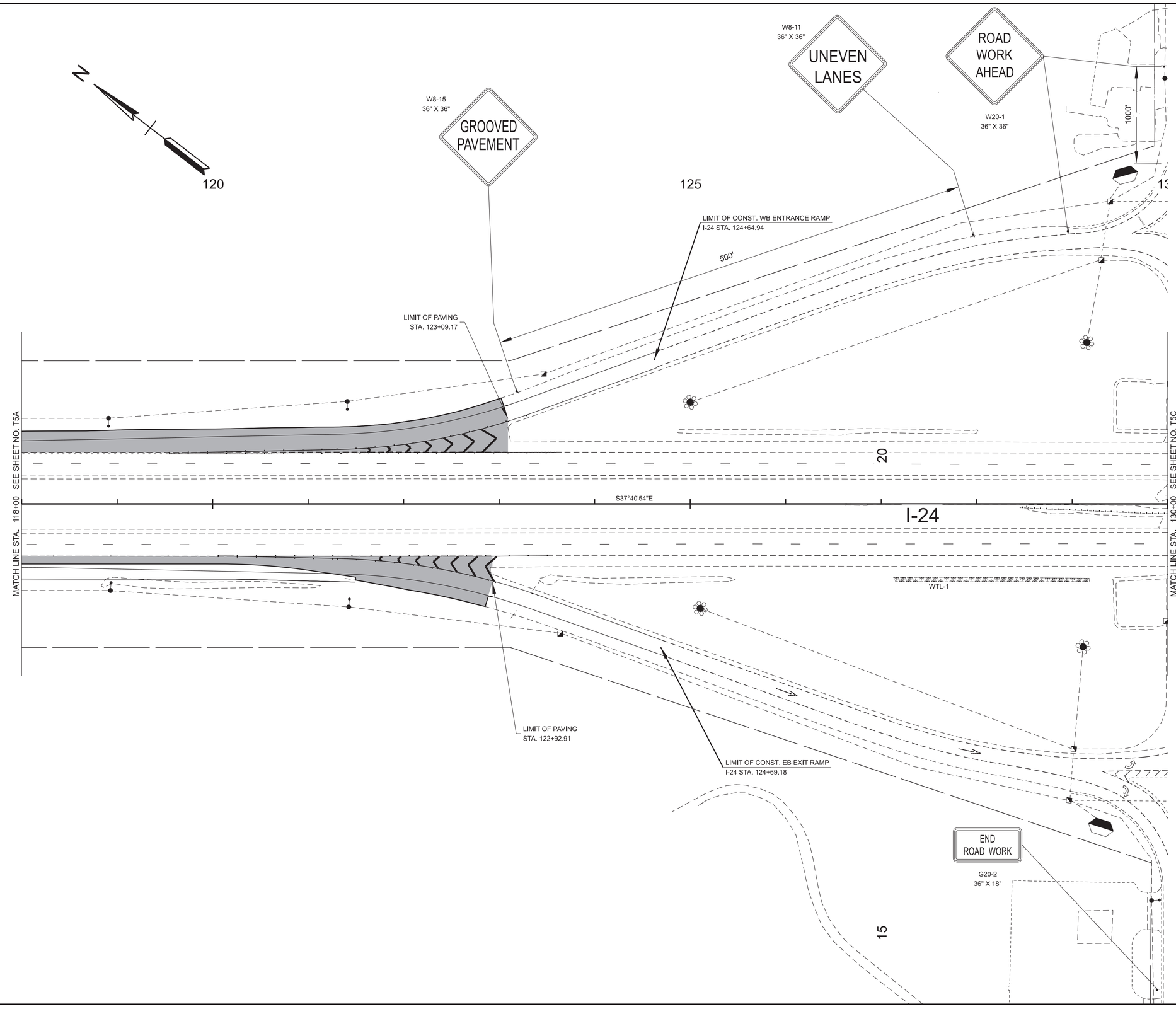
TRAFFIC CONTROL PLANS

STA. 106+00.00 TO STA. 118+00.00
SCALE: 1" = 50'

PHASE III

6/1/2026 2:10:45 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5B
PS&E	2026	31I024-S3-002	T5B



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6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 118+00.00 TO STA. 130+00.00
SCALE: 1" = 50'

PHASE III

6/1/2026 2:11:30 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5C
PS&E	2026	31I024-S3-002	T5C

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

END ROAD WORK
G20-2
36" X 18"

LIMIT OF PAVING
STA. 500+18.44

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

END PAVING
STA. 503+20.75

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

LIMIT OF CONST. EB ENTRANCE RAMP
I-24 STA. 136+12.95

LIMIT OF PAVING
STA. 137+96.87

LIMIT OF PAVING
STA. 138+09.65

SINK HOLE

MATCH LINE STA. 130+00 SEE SHEET NO. T5B

MATCH LINE STA. 142+00 SEE SHEET NO. T5D

SR-50

RAMP D

500

505

135

140

S37°41'13"E

S17°40'56"E

S37°40'54"E

N52°18'47"E

1000'

500'

WTL-3

WTL-2

W8-15
36" X 36"
GROOVED PAVEMENT

W8-11
36" X 36"
UNEVEN LANES

ROAD WORK AHEAD

W20-1
36" X 36"

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6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

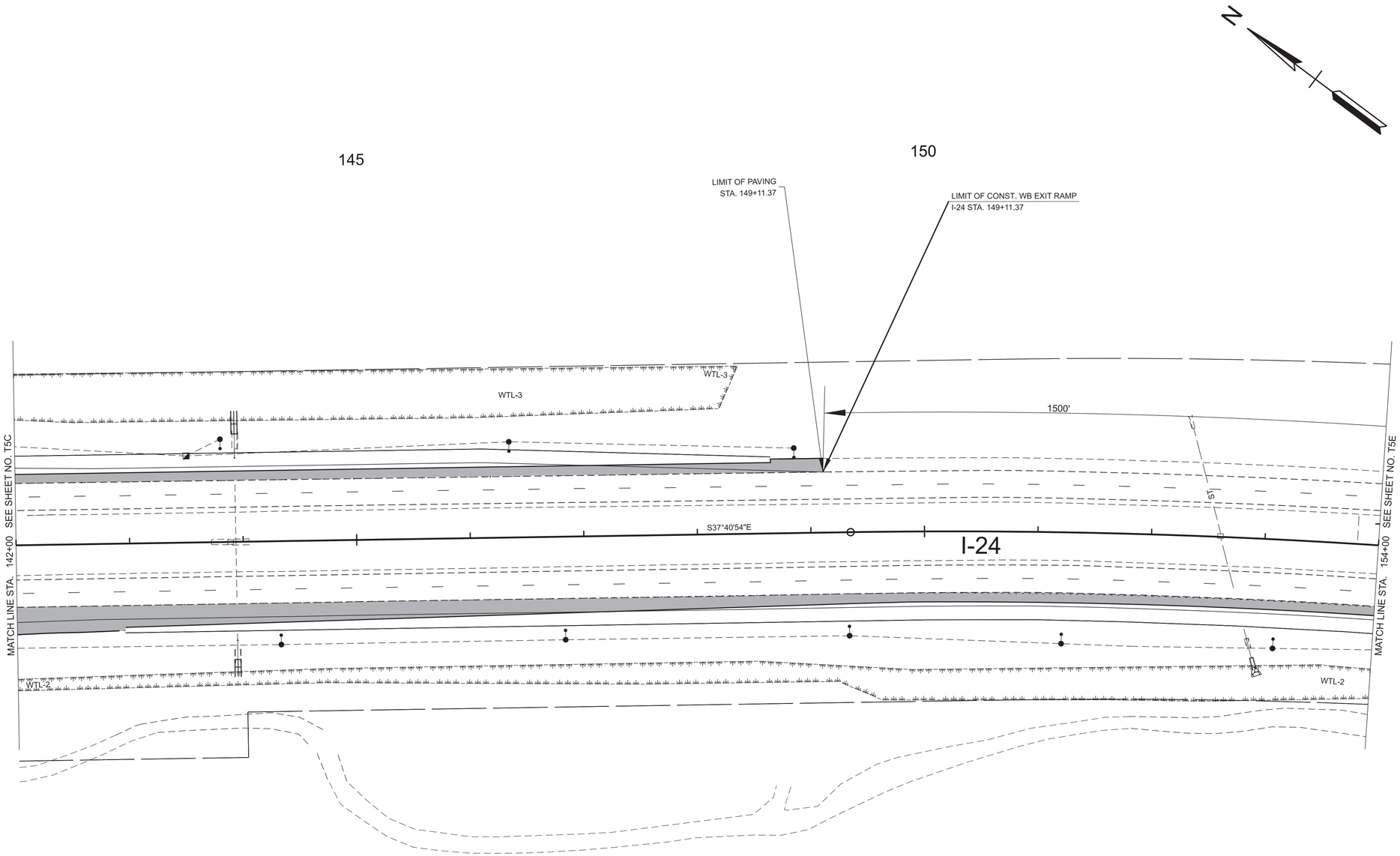
TRAFFIC CONTROL PLANS

STA. 130+00.00 TO STA. 142+00.00
SCALE: 1" = 50'

PHASE III

6/1/2026 2:12:26 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSETI\DGN\31I024-SHT-TRAFFIC CONTROL PH3.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5D
PS&E	2026	31I024-S3-002	T5D



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6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

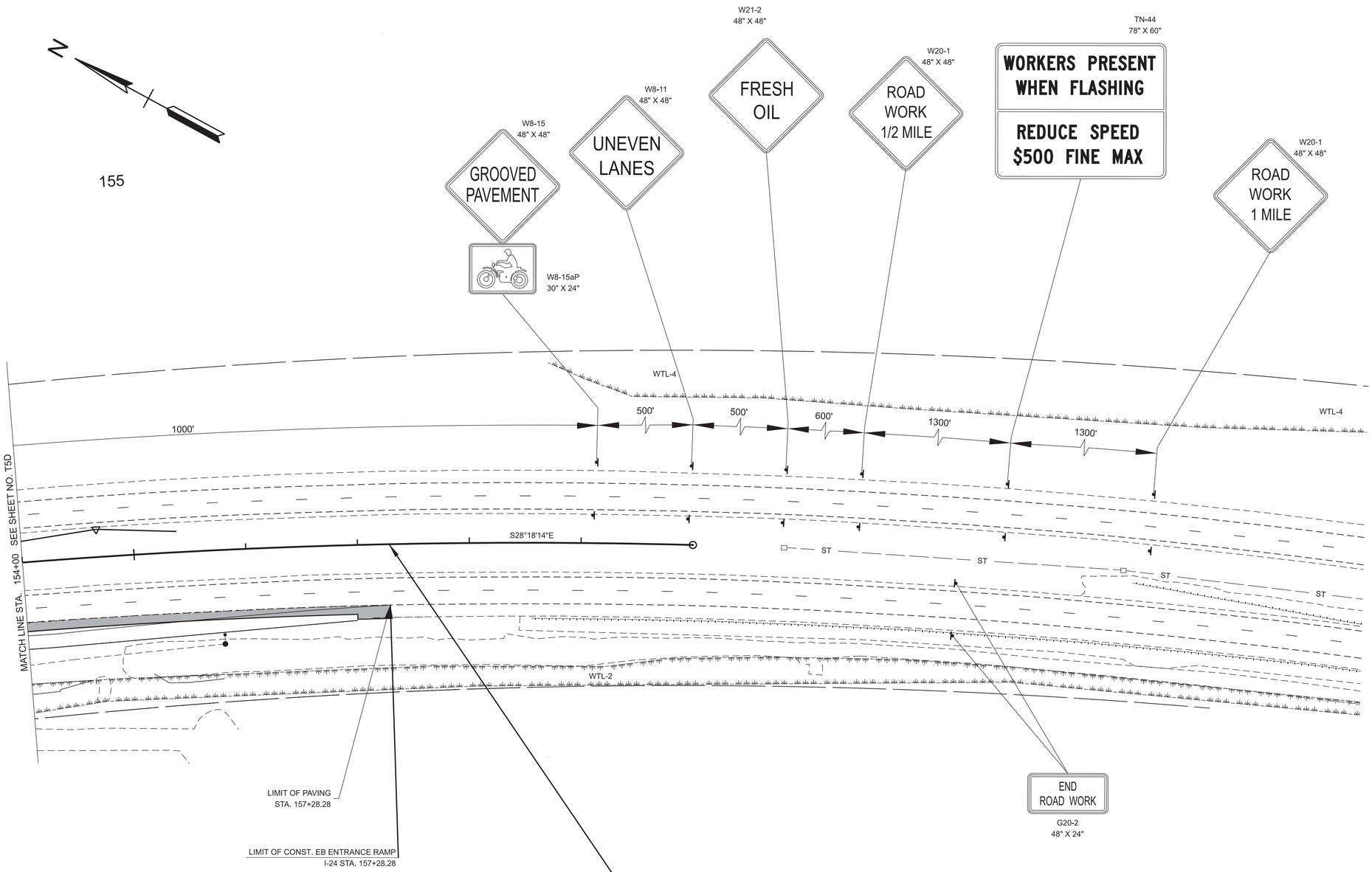
TRAFFIC CONTROL PLANS

STA. 142+00.00 TO STA. 154+00.00
SCALE: 1" = 50'

PHASE III

6/1/2026 2:14:22 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	31I024-S3-002	T5E
PS&E	2026	31I024-S3-002	T5E



END PROJECT NO. 31I024-S3-002 CONSTRUCTION
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

SEALED BY

JOSEPH S BADYRK
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 00116290
STATE OF TENNESSEE
6/1/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 154+00.00 TO STA. 166+00.00
SCALE: 1" = 50'

PHASE III

6/1/2026 2:15:15 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\132953.00_WORKSETDGN\31I024-SHT-TRAFFIC CONTROL PH3.DGN



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

David Grass

Digitally signed by: David Grass
DN: CN = David Grass email = dgrass@smeinc.com C = US O = SME, Inc.
Date: 2026.05.26 08:33:46 -04'00'

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S&ME, INC.
4291 HIGHWAY 58
CHATTANOOGA, TN 37416

DAVID M. GRASS, P.E. NO. 114526

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-01
GEOTECHNICAL NOTES AND TABULATED QUANTITIES	G-02
GEOTECHNICAL BORING LAYOUT	G-03, G-05, G-08, G-11, G-14
GEOTECHNICAL BORING PROFILE	G-04, G-06, G-07, G-09. G-10, G-12, G-13, G-15
GEOTECHNICAL PAVEMENT CORING LAYOUT	G-16
GEOTECHNICAL TYPICAL SECTIONS	G-17, G-18
GEOTECHNICAL HIGH-MAST LIGHTING TABLES	G-19

YEAR	PROJECT NO.	SHEET NO.
2026	31I024-S3-002	GEOTECH-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

5/26/2026 8:27:29 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-01

GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
GEOTECHNICAL INDEX	G-01
GEOTECHNICAL NOTES AND TABULATED QUANTITIES	G-02
GEOTECHNICAL BORING LAYOUT ….	G-03, G-05, G-08, G-11, G-14
GEOTECHNICAL BORING PROFILE	G-04, G-06, G-07, G-09, G-10, G-12, G-13, G-15
GEOTECHNICAL PAVEMENT CORING LAYOUT	G-16
GEOTECHNICAL TYPICAL SECTIONS	G-17, G-18
GEOTECHNICAL HIGH-MAST LIGHTING TABLES	G-19

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
INDEX

GES No. 3115723 / PIN 132953.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-02

NOTES

SITE PREPARATION

1. NO MATERIALS SHOULD BE STOCKPILED WITHIN 10 FEET OF THE TOP OF CUT SLOPES OR EMBANKMENT SLOPES.

2. AFTER STRIPPING AND GRUBBING, STABILIZATION IN THE FORM OF UNDERCUTTING ABOUT 435 CUBIC YARDS OF SOFT SUBGRADE SOIL AND REPLACING WITH GRADED SOLID ROCK (GSR) WILL BE REQUIRED IN SEVERAL AREAS OF THE PROJECT. FURTHER, STABILIZATION IN THE FORM OF PLACING A LAYER OF GSR WILL BE REQUIRED IN SEVERAL WETLAND AREAS PRESENT ACROSS THE PROPOSED ALIGNMENT. ONCE AREAS HAVE BEEN UNDERCUT AND/OR PRIOR TO THE PLACEMENT OF GSR, A TYPE IV GEOTEXTILE FABRIC SHOULD BE PLACED OVER THE AREA TO BE STABILIZED. GSR SHOULD BE PLACED USING A TRACKHOE, BULLDOZER, OR OTHER HEAVY MACHINERY. ONCE GSR IS IN PLACE, VOIDS IN THE GSR SHOULD BE CHOKED USING A NO. 4 STONE. THE STONE INTERVAL SHOULD BE OVERLAIN BY A TYPE IV GEOTEXTILE FABRIC PRIOR TO PLACEMENT OF FILL, OR LEFT EXPOSED WHERE NO FILL IS PLANNED ABOVE THE STONE INTERVAL. THE FOLLOWING APPROXIMATE STATION RANGES ALONG THE PROPOSED ALIGNMENT HAVE BEEN IDENTIFIED AS REQUIRING GSR STABILIZATION. UNDERCUTTING DEPTHS ARE NOTED WHERE RECOMMENDED.

   STATION 143+80 TO 144+25, LEFT (3 FOOT UNDERCUT RECOMMENDED)
   STATION 143+70 TO 144+25, RIGHT (3 FOOT UNDERCUT RECOMMENDED)
   STATION 144+65 TO 144+80, RIGHT (3 FOOT UNDERCUT RECOMMENDED)
   STATION 147+50 TO 149+10, RIGHT (3 FOOT UNDERCUT RECOMMENDED)
   STATION 152+15 TO 154+50, RIGHT (3 FOOT UNDERCUT RECOMMENDED)
   STATION 155+00 TO 155+80, RIGHT (3 FOOT UNDERCUT RECOMMENDED)

3. WHEN EXTENDING EXISTING FILL EMBANKMENTS THAT ARE STEEPER THAN 4:1, THE NEW FILL SHOULD BE SUITABLY BENCHED INTO THE EXISTING FILL EMBANKMENT TO REMOVE WEAK SURFICIAL MATERIALS AND FACILITATE COMPACTION. BENCHING CAN BE ACCOMPLISHED BY CUTTING INTO THE EXISTING EMBANKMENT AT LEAST ONE BLADE WIDTH OF A BULLDOZER.

COMPACTED FILL

1. EXCAVATIONS WILL LIKELY GENERATE CLAYEY OR SANDY CLAY SOILS. THESE MATERIALS SHOULD BE FREE OF ORGANICS AND ROOTS. PROCEDURES FOR PLACEMENT AND COMPACTION OF SOIL AND ROCK MATERIALS IN EMBANKMENT FILLS ARE PROVIDED IN SECTION 205 OF THE LATEST EDITION OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. POSITIVE SURFACE DRAINAGE SHOULD BE MAINTAINED DURING GRADING OPERATIONS TO PREVENT WATER FROM PONDING ON THE EXPOSED SUBGRADE. THE SURFACE SHOULD BE ROLLED SMOOTH TO ENHANCE DRAINAGE IF PRECIPITATION IS EXPECTED. THE GEOTECHNICAL ENGINEER SHOULD PROVIDE RECOMMENDATIONS FOR TREATMENT IF THE SOILS BECOME EXCESSIVELY WET OR DRY, OR FROZEN.

3. OFF- SITE BORROW THAT IS REQUIRED TO ACHIEVE THE REQUIRED SUBGRADE ELEVATION SHALL CONSIST OF SOILS HAVING A LIQUID LIMIT (LL) OF LESS THAN 40 AND HAVING A PLASTICITY INDEX (PI) OF LESS THAN 25. OFF SITE BORROW SHALL BE FREE OF VEGETATION, ROOTS, DEBRIS, ROCKS LARGER THAN 4-INCHES IN MAXIMUM DIMENSION, AND ANY OTHER OBJECTIONABLE MATERIAL.

4. ALL BORROW SOIL SOURCES SHALL BE TESTED AND APPROVED BY TDOT BEFORE THE SOIL CAN BE USED AS FILL.

DEFINITION OF EARTHWORK TERMS

THE TERMS AND DEFINITIONS BELOW SHALL CHARACTERIZE THE MATERIAL TYPE THAT WILL BE ENCOUNTERED DURING EXCAVATION AND GRADING. SEE TYPE MATERIAL REFERENCE IN TYPICAL SECTIONS LEGEND.

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 2-145.10 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 2-145.10 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 (MATERIALS A, B, AND C AS DEFINED IN SECTION 4-203.02) 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.

TABULATED GEOTECHNICAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(3)(1)(2)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	900
(3)	203-05	UNDERCUTTING	C.Y.	435
(3)	303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	111
(3)(1)(2)	740-10.04	GEOTEXTILE (TYPE IV) (STABILIZATION)	S.Y.	870

(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 LAYERS AS DEPICTED ON THE SOILS - TYPICAL SECTIONS AND BORING LAYOUT SHEETS.

(3) FOR BIDDING PURPOSES, THESE QUANTITIES ARE INCLUDED IN THE SHEET 2 SERIES

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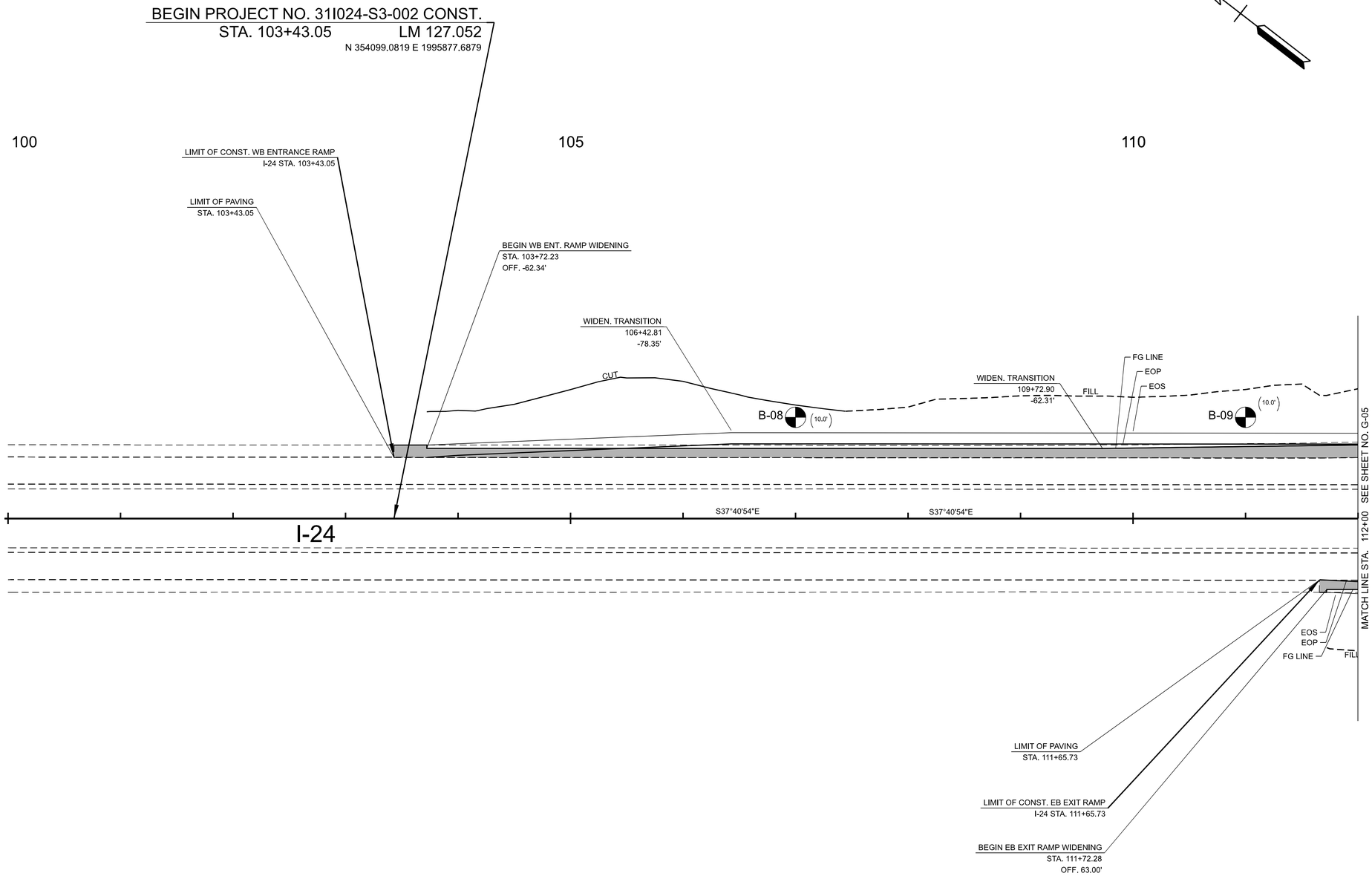
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL NOTES AND TABULATED QUANTITIES

GES No. 3115723 / PIN 132953.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	G-03



LEGEND

- B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 3115723 / PIN 132953.00

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DAVID MICHAEL GRAY — REGISTERED ENGINEER — 120141 — STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	G-04

BEGIN WB ENTRANCE RAMP WIDENING
STA. 103+72.23
EL. 1000.80

-0.26% -0.20% +0.16% +0.25% +0.35% +0.36% +0.42% -0.30% +0.44% +0.59% +0.44% +0.41% +0.32% +0.31% +0.18 +0.29% +0.15%

GRAPHICAL GRADE

EXISTING GROUND AT ℄

B-08
107+00
90L
999

5
11
11
16
BT-10'

B-09
111+00
90L
998

8
7
8
8
BT-10'

SEE SHEET NO. G-07

STA. 112+00

MATCH LINE

BEGIN PROJECT NO. 31I024-S3-002 CONST.
STA. 103+43.05 LM 127.052
N 354099.0573 E 1995877.6538

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)
- LEAN CLAY (CL) (TYPE A)
- FAT CLAY (CH) (TYPE A)
- LIMESTONE (TYPE B)
- VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00

1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965 960 955 950 945

I-24 WB

GES No. 3115723 / PIN 132953.00

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DAVID MICHAEL GRAY
REGISTERED
PROFESSIONAL ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

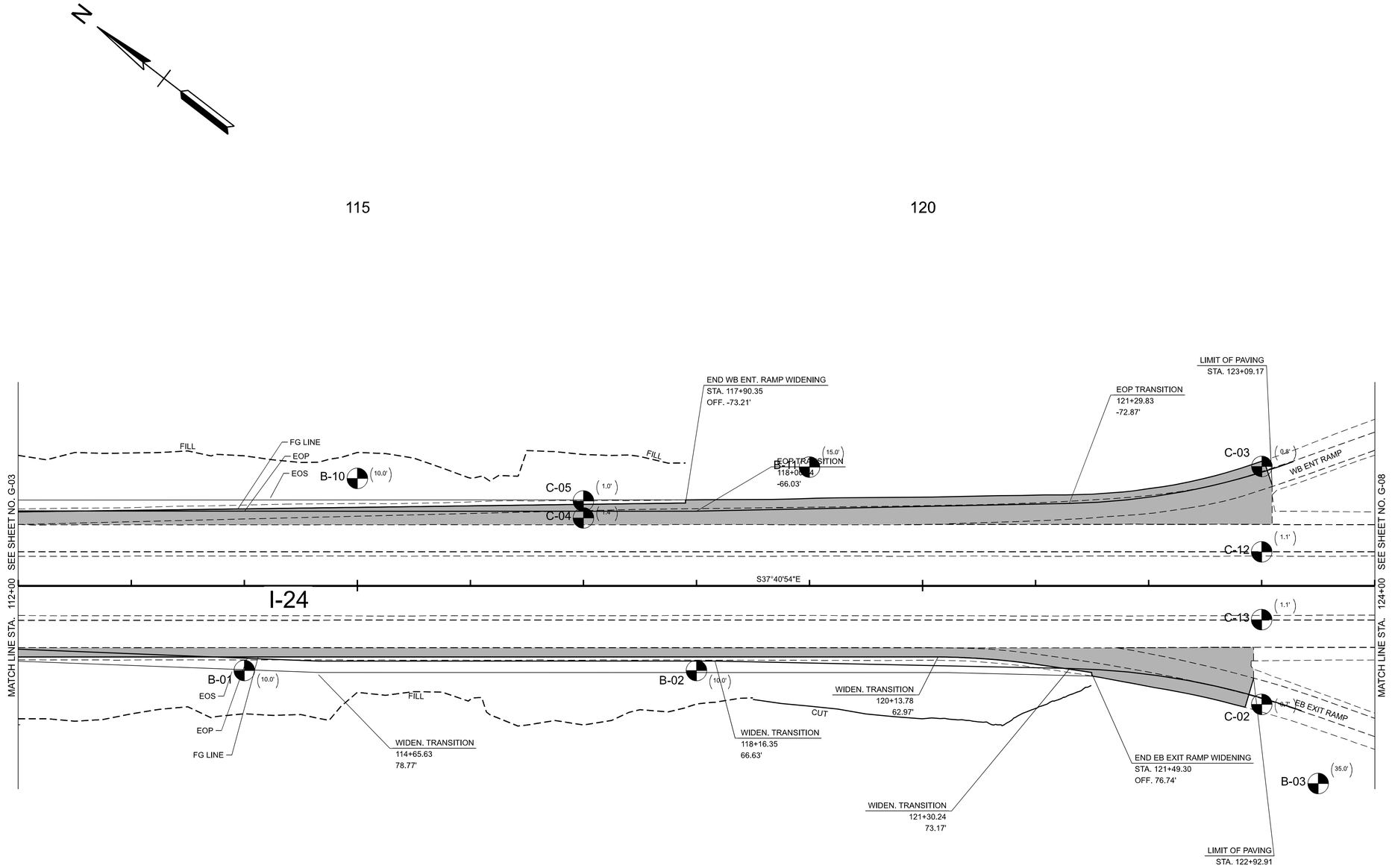
GEOTECHNICAL BORING PROFILE

STA. 100+00.00 TO STA. 112+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-05



LEGEND

- B-1 (24.5' / 70.3') — BORING LOCATION, DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 3115723 / PIN 132953.00

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No. 119628
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

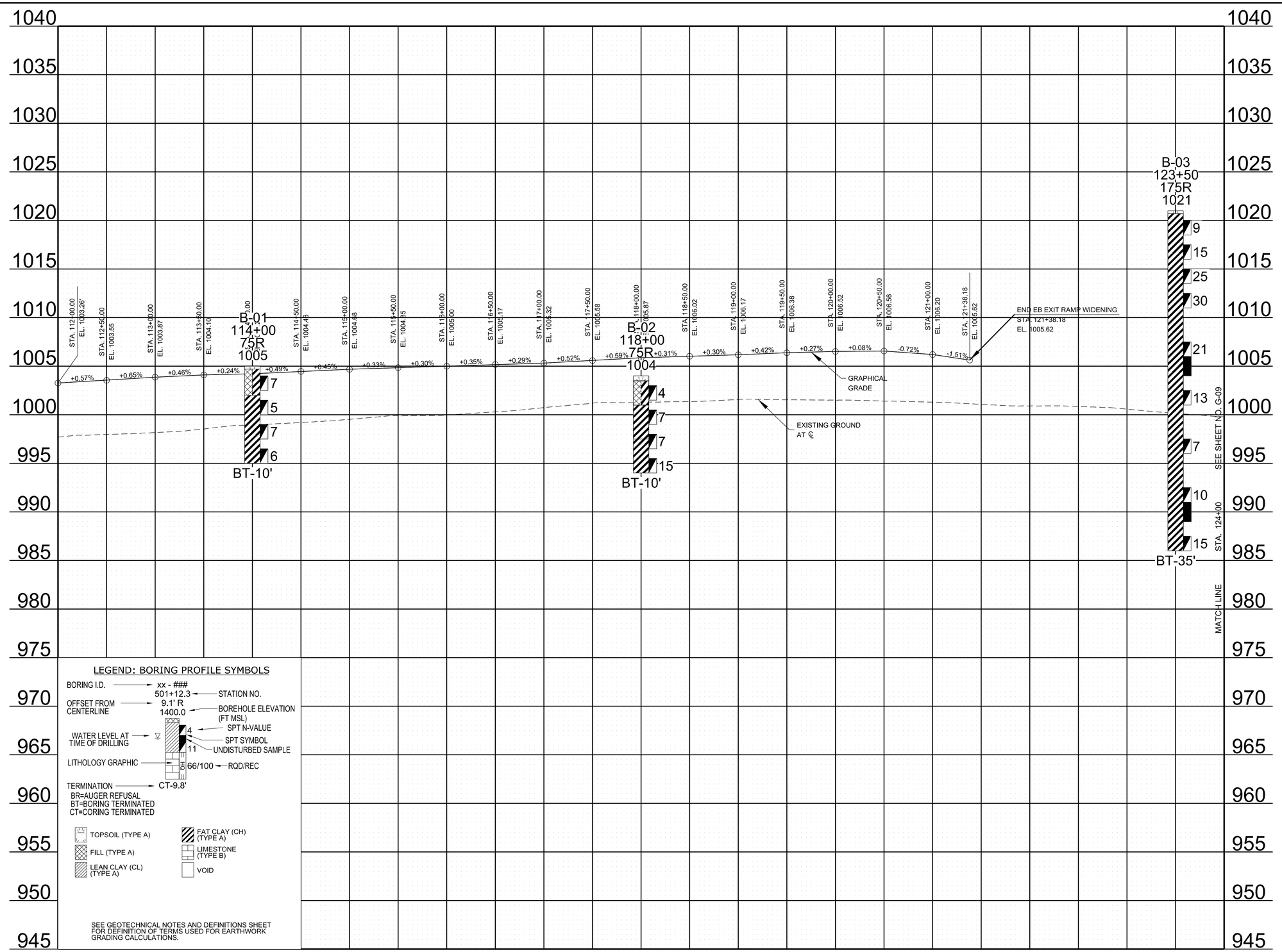
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 112+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-06



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

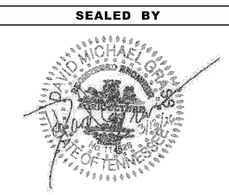
- TOPSOIL (TYPE A)
- FILL (TYPE A)
- LEAN CLAY (CL) (TYPE A)
- FAT CLAY (CH) (TYPE A)
- LIMESTONE (TYPE B)
- VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

I-24 EB

GES No. 3115723 / PIN 132953.00

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DEPARTMENT OF TRANSPORTATION

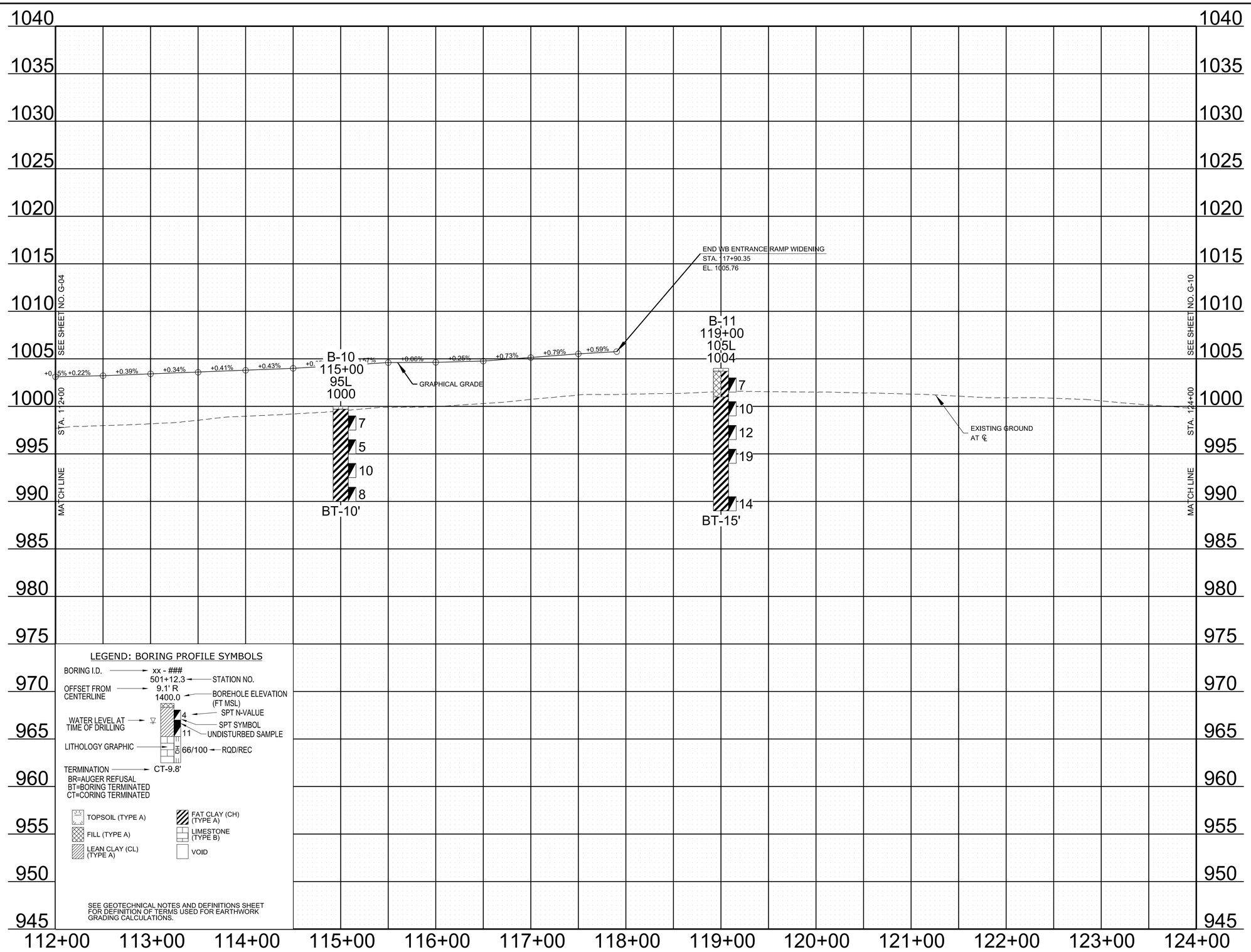
GEOTECHNICAL BORING PROFILE

STA. 112+00.00 TO STA. 124+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-07



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 ← UNDISTURBED SAMPLE
SPT SYMBOL
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'
BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

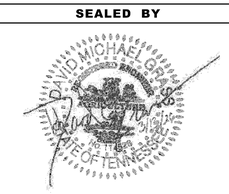
- TOPSOIL (TYPE A)
- FILL (TYPE A)
- LEAN CLAY (CL) (TYPE A)
- FAT CLAY (CH) (TYPE A)
- LIMESTONE (TYPE B)
- VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

I-24 WB

GES No. 3115723 / PIN 132953.00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 112+00.00 TO STA. 124+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-08

N

125

130

135

500

505

LIMIT OF CONST. WB ENTRANCE RAMP
I-24 STA. 124+64.94

WB ENT RAMP

RAMP D STA. 500+00.00 =
SR-50 STA. 22+15.77
N 352130.8136 E 1997734.2902

LIMIT OF STRIPING
STA. 23+74.40

LIMIT OF PAVING
STA. 23+29.63

47.5' R

LIMIT OF RESURFACING
STA. 500+18.49

LIMIT OF CONST. RAMP D
℄ I-24 STA. 130+54.16
℄ RAMP D STA. 500+18.49
N 352116.1813 E 1997745.5940

LIMIT OF RESURFACING
STA. 501+45.79

LIMIT OF CONST. RAMP D
LIMIT OF CONST. WB EXIT RAMP
℄ I-24 STA. 133+54.45
℄ RAMP D STA. 503+22.10
N 351860.3945 E 1997904.0319

END RAMP D WIDENING
STA. 503+22.10
OFF. 0.30'

EOP
EOS

S37°41'13"E

C-10 (1.5')

EOS
EOP

CUT

FILL

35' R

RAMP D

C-01 (1.1')

WB EXIT RAMP

S17°40'56"E

BEGIN RAMP D WIDENING
STA. 500+41.19
OFF. 4.64'

LIMIT OF PAVING
STA. 21+80.77

SR-50

HM-1 (34.7' / 44.5')

HM-2 (40.0')

HM-3 (40.0')

HM-4 (21.1' / 31.5')

SEE SHEET NO. G-05

MATCH LINE STA. 124+00

SEE SHEET NO. G-11

MATCH LINE STA. 136+00

20

S37°40'54"E

I-24

SINK HOLE

UNDISTURBED
WTL-1

I-24 STA. 130+35.69 =
SR-50 STA. 19+49.57
N 351968.0733 E 1997523.6298

HM-5 (27.5' / 27.5')

HM-6 (36.6' / 36.6')

HM-7 (33.5' / 44.2')

HM-8 (37.5' / 56.3')

LIMIT OF CONST. EB EXIT RAMP
I-24 STA. 124+69.18

EB EXIT RAMP

EB ENT RAMP

15

N52°18'47"E

LEGEND

B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)

B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL

B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 3115723 / PIN 132953.00

NOTE:
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 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY

DAVID MICHAEL GRAY
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No. 115828
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

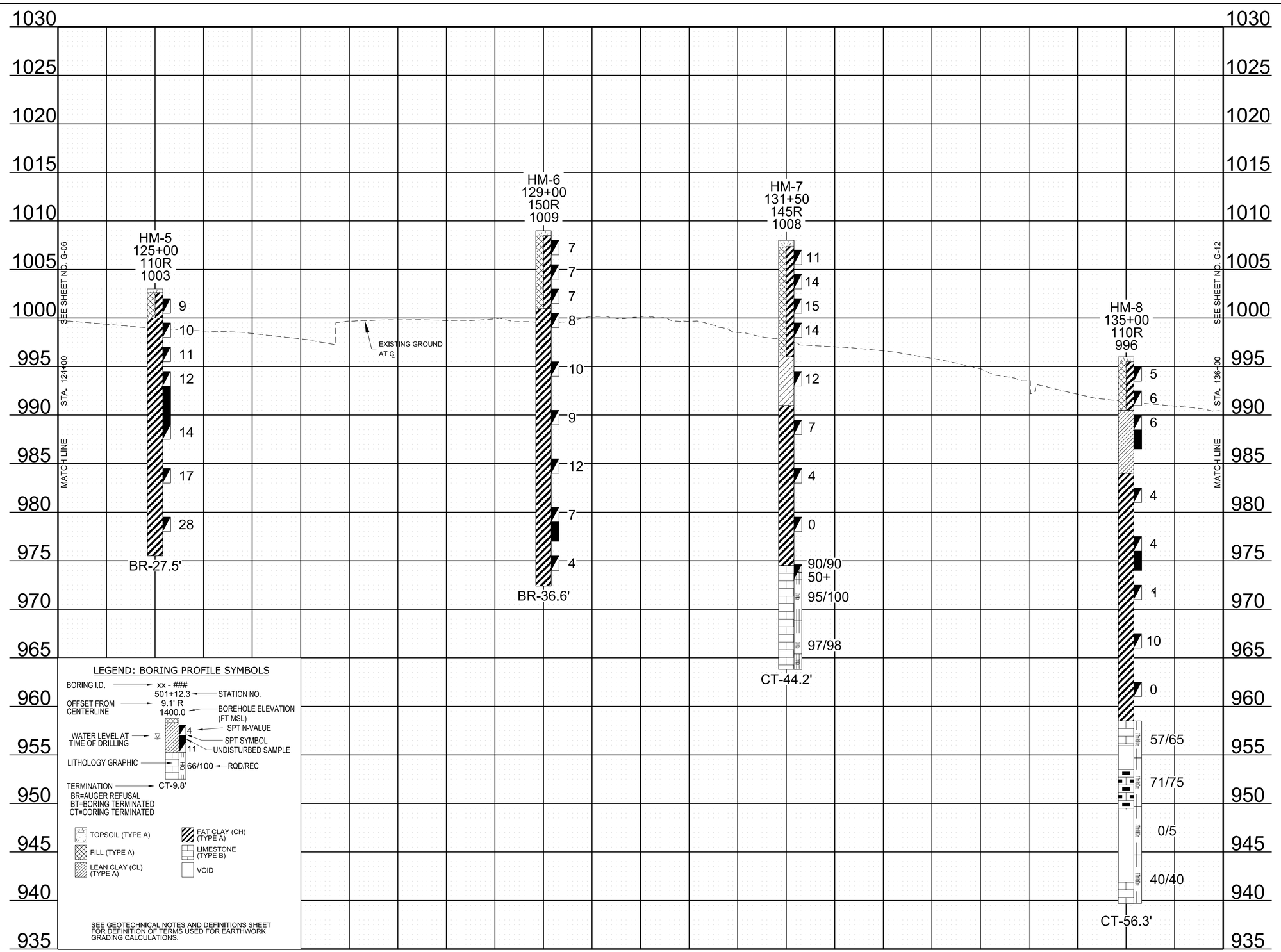
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

5/21/2026 8:48:56 AM
T:\CHATTANOOGA-1810\PROJECTS\2024\23430034_CONSOR ENGINEERS_I24 SR50 INTERCHANGE IMPROVEMENTS_GRUNDY CO, TN\GEO\CAD\GEOTECHNICAL - 05-2026\311024-GEO-SHT-PROPOSED LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-09



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 ← UNDISTURBED SAMPLE
SPT SYMBOL
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)
LEAN CLAY (CL) (TYPE A)
FAT CLAY (CH) (TYPE A)
LIMESTONE (TYPE B)
VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

I-24 EB

GES No. 3115723 / PIN 132953.00

SEALED BY

DAVID MICHAEL GRAY
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 124+00.00 TO STA. 136+00.00

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

3/16/2026 8:03:50 AM
T:\Chattanooga-1810\Projects\2024\23430034_Consor Engineers_I24 SR50 Interchange Improvements_Grundy CO, TN\GEO\CAD\Geotechnical - 09-2025\311024-GEO-SHT-Proposed Profiles-I24 EB.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-10

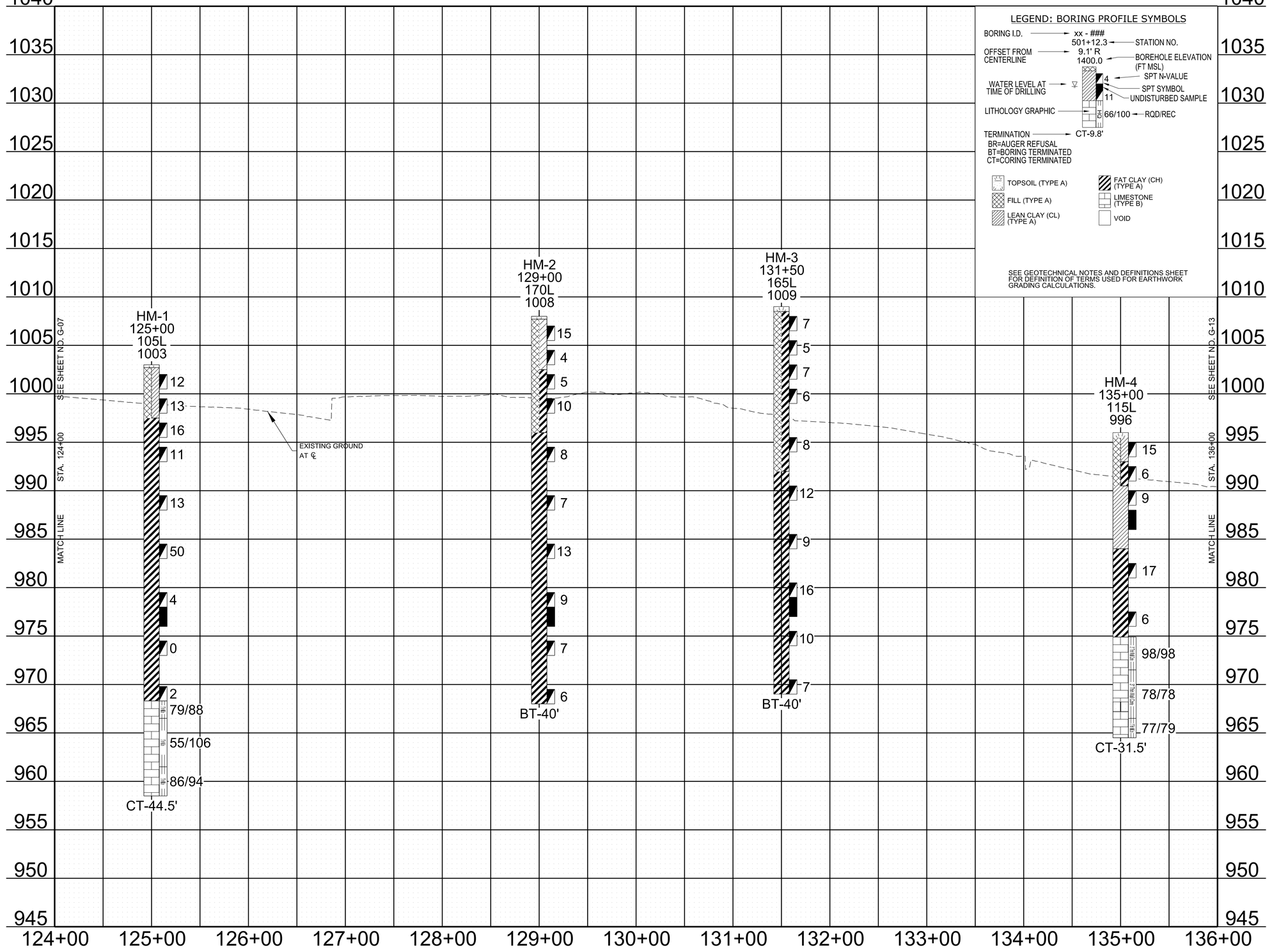
LEGEND: BORING PROFILE SYMBOLS

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

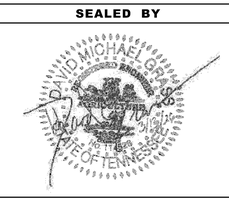
- TOPSOIL (TYPE A)
- FILL (TYPE A)
- LEAN CLAY (CL) (TYPE A)
- FAT CLAY (CH) (TYPE A)
- LIMESTONE (TYPE B)
- VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.



I-24 WB

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 124+00.00 TO STA. 136+00.00

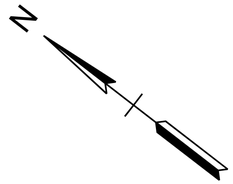
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

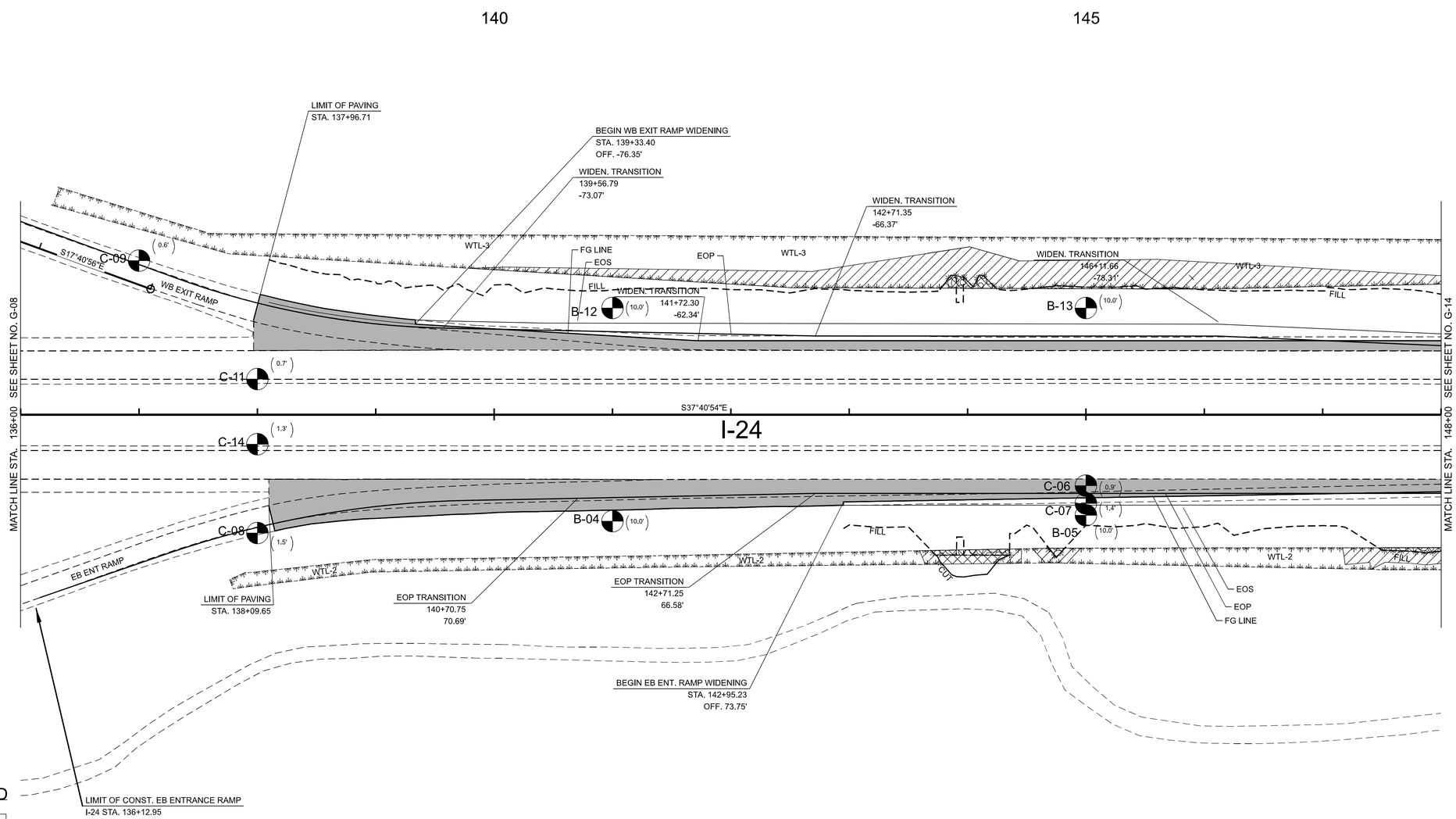
GES No. 3115723 / PIN 132953.00

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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-11



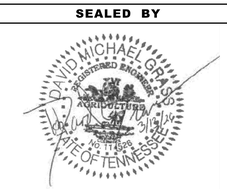


LEGEND

- B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)
- GRADED SOLID ROCK

NOTE:
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-2 & WTL-3 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

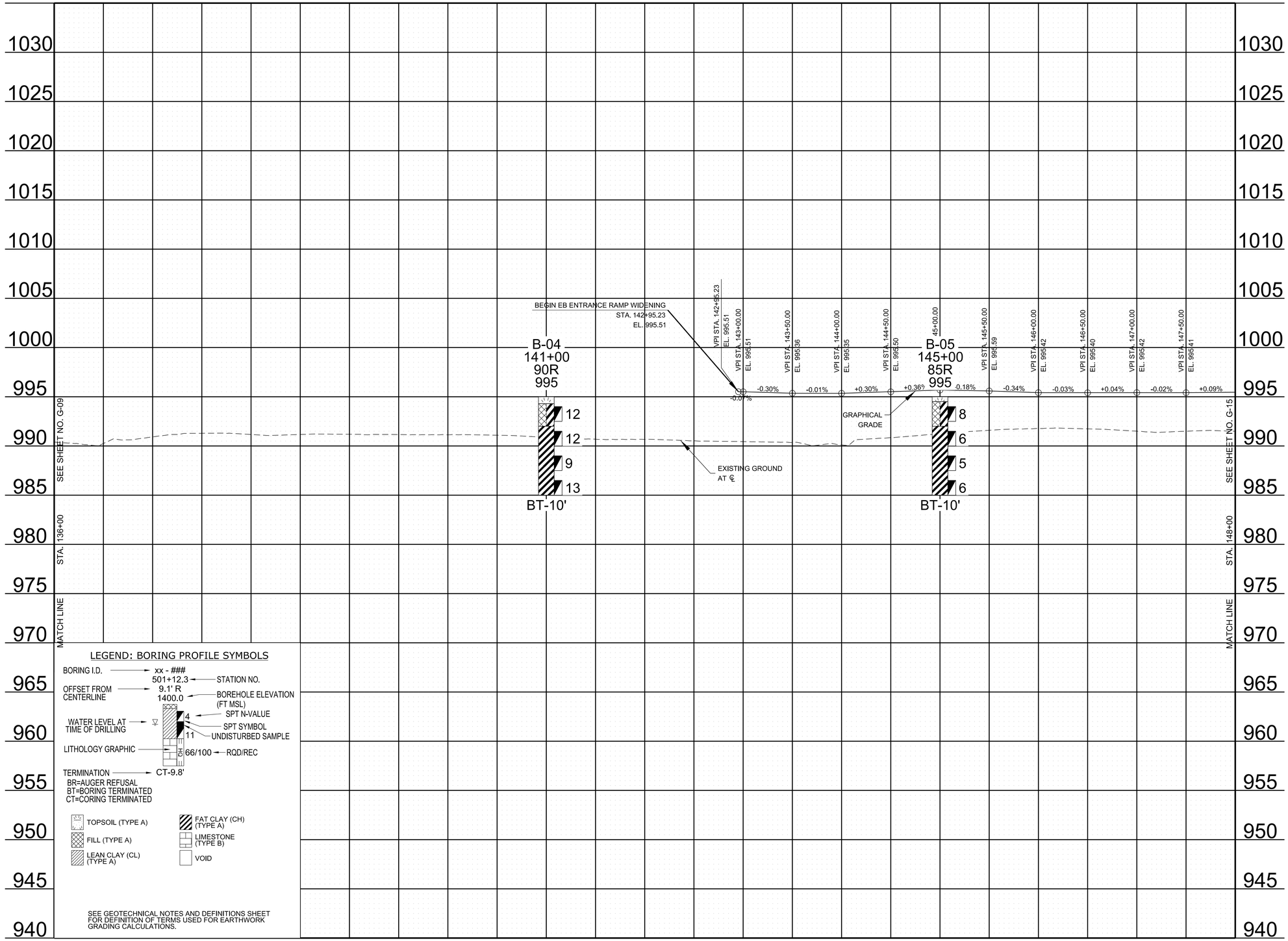
GEOTECHNICAL BORING LAYOUT

STA. 136+00.00 TO STA. 148+00.00
SCALE: 1" = 50'

GES No. 3115723 / PIN 132953.00

5/21/2026 8:49:31 AM
T:\CHATTANOOGA-1810\PROJECTS\2024\23430034_CONSOR ENGINEERS_I24 SR50 INTERCHANGE IMPROVEMENTS_GRUNDY CO, TN\GEO\CAD\GEOTECHNICAL - 05-2026\311024-GEO-SHT-PROPOSED LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-12



SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

STA. 136+00.00 TO STA. 148+00.00

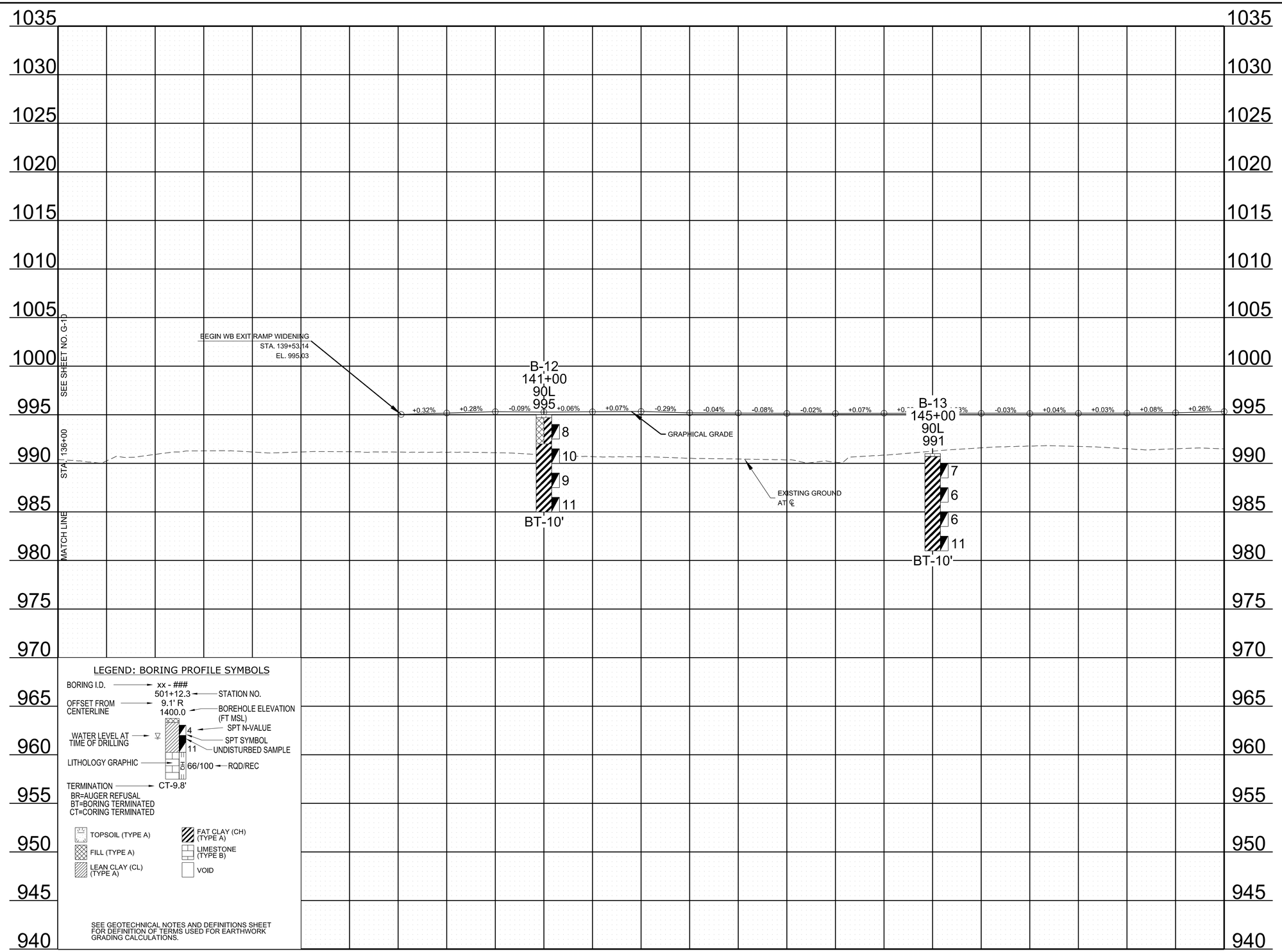
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

I-24 EB

GES No. 3115723 / PIN 132953.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	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
SPT SYMBOL
11 ← UNDISTURBED SAMPLE
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'
BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

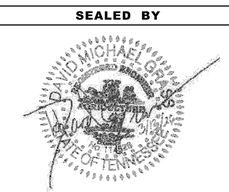
- TOPSOIL (TYPE A)
- FILL (TYPE A)
- LEAN CLAY (CL) (TYPE A)
- FAT CLAY (CH) (TYPE A)
- LIMESTONE (TYPE B)
- VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

I-24 WB

GES No. 3115723 / PIN 132953.00

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

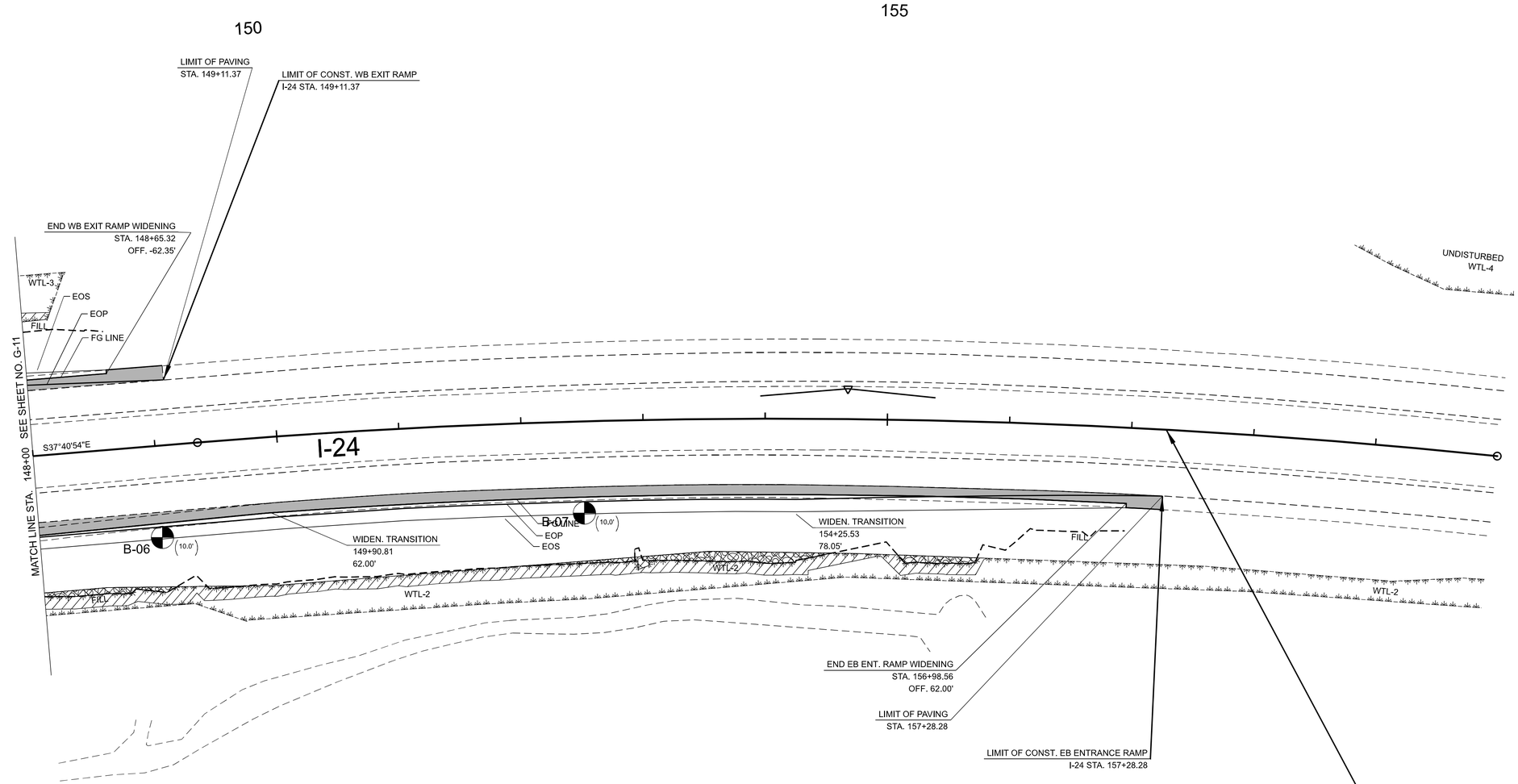
STA. 136+00.00 TO STA. 148+00.00

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

3/16/2026 8:04:01 AM
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LEGEND	WETLAND IMPACTS	WTL-2	WTL-3
	AREA OF PERMANENT IMPACT	0.07 AC.	0.01 AC.
	VOLUME OF PERMANENT IMPACT	109 C.Y.	22 C.Y.
	AREA OF TEMPORARY IMPACT	0.20 AC.	0.30 AC.
	VOLUME OF TEMPORARY IMPACT	324 C.Y.	486 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	G-14



END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5955 E 1999124.5929

LEGEND

B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)

B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL

B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

GRADED SOLID ROCK

GES No. 3115723 / PIN 132953.00

NOTE:
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-2, WTL-3, & WTL-4 AND THAT THE WETLAND AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

STA. 148+00.00 TO STA. 160+00.00
SCALE: 1" = 50'

5/21/2026 8:50:23 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	31I024-S3-002	G-15

SEE SHEET NO. G-12

VPI STA. 148+00.00
EL. 995.46

VPI STA. 148+50.00
EL. 995.63

B-06
149+00
75R
995

VPI STA. 149+00.00

VPI STA. 149+50.00
EL. 995.62

VPI STA. 150+00.00
EL. 995.48

VPI STA. 150+50.00
EL. 995.39

VPI STA. 151+00.00
EL. 995.36

VPI STA. 151+50.00
EL. 995.22

VPI STA. 152+00.00
EL. 995.06

VPI STA. 152+50.00
EL. 995.03

B-07
152+50
75R
993

VPI STA. 153+00.00
EL. 995.07

VPI STA. 153+50.00
EL. 995.10

VPI STA. 154+00.00
EL. 995.04

VPI STA. 154+50.00
EL. 994.80

VPI STA. 155+00.00
EL. 994.73

VPI STA. 155+50.00
EL. 994.77

VPI STA. 156+00.00
EL. 994.57

VPI STA. 156+50.00
EL. 994.54

VPI STA. 157+00.00
EL. 994.53

VPI STA. 157+03.49
EL. 994.53

+0.34% +0.11% -0.14% -0.27% -0.17% -0.06% -0.29% -0.31% -0.05% 0.08% +0.05% -0.11% -0.49% -0.13% 0.05% 0.27% -0.07% -0.01% -0.12%

END EB ENTRANCE RAMP WIDENING
STA. 157+03.49
EL. 994.53

STA. 148+00

MATCH LINE

GRAPHICAL GRADE

EXISTING GROUND AT ℄

9 5 5 10
BT-10'

33 11 7 8
BT-10'

END PROJECT NO. 31I024-S3-002 CONST.
STA. 157+28.28 LM 128.075
N 349805.5925 E 1999124.6013

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)
LEAN CLAY (CL) (TYPE A)
FAT CLAY (CH) (TYPE A)
LIMESTONE (TYPE B)
VOID

SEE GEOTECHNICAL NOTES AND DEFINITIONS SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965 960 955 950 945 940

148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00

I-24 EB

GES No. 3115723 / PIN 132953.00

SEALED BY

DAVID MICHAEL GRAY
REGISTERED
LICENSED PROFESSIONAL ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

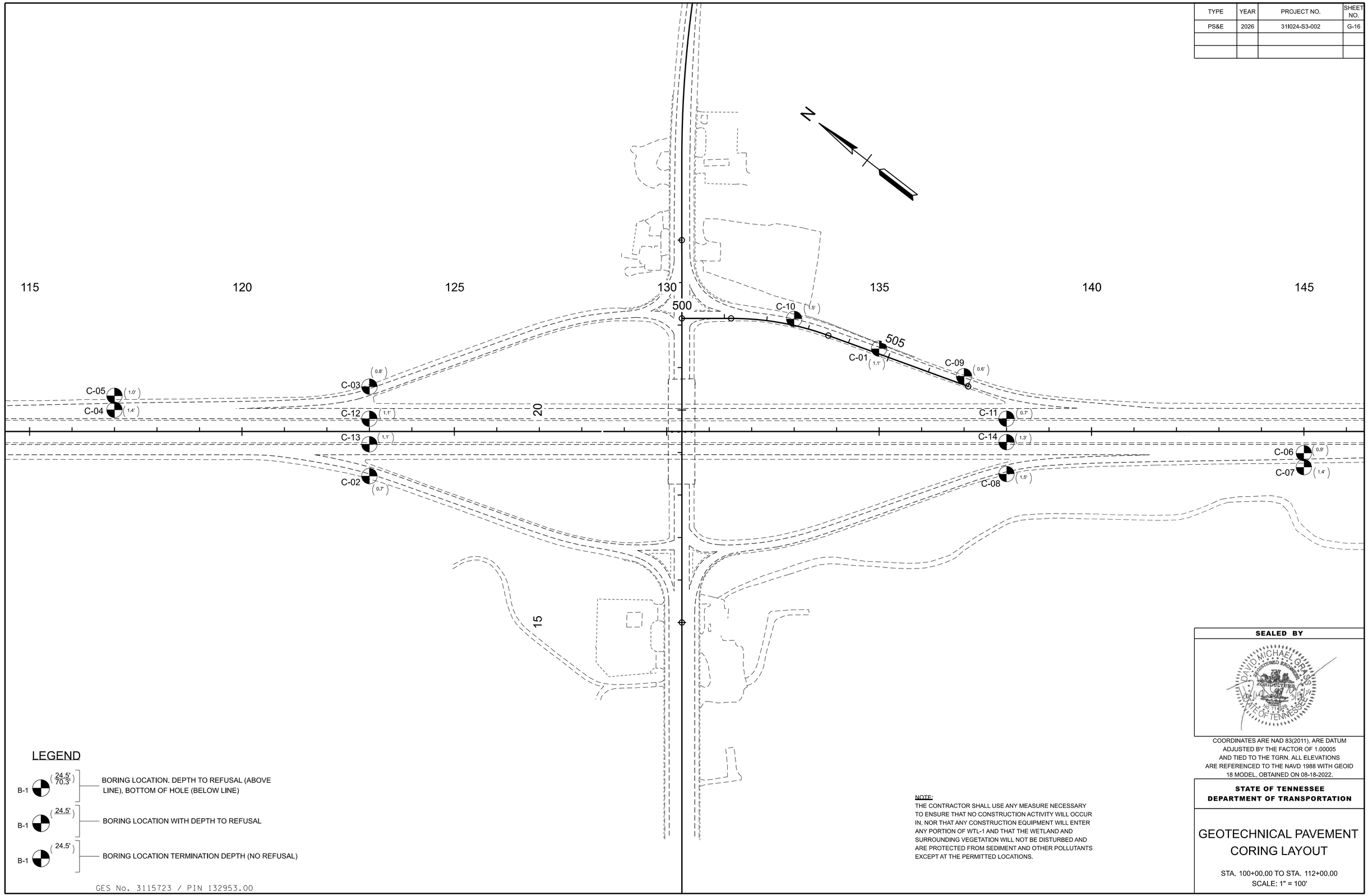
GEOTECHNICAL BORING PROFILE

STA. 148+00.00 TO STA. 160+00.00

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

3/16/2026 8:04:07 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-16



LEGEND

- B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL
- B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

GES No. 3115723 / PIN 132953.00

NOTE:
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SEALED BY

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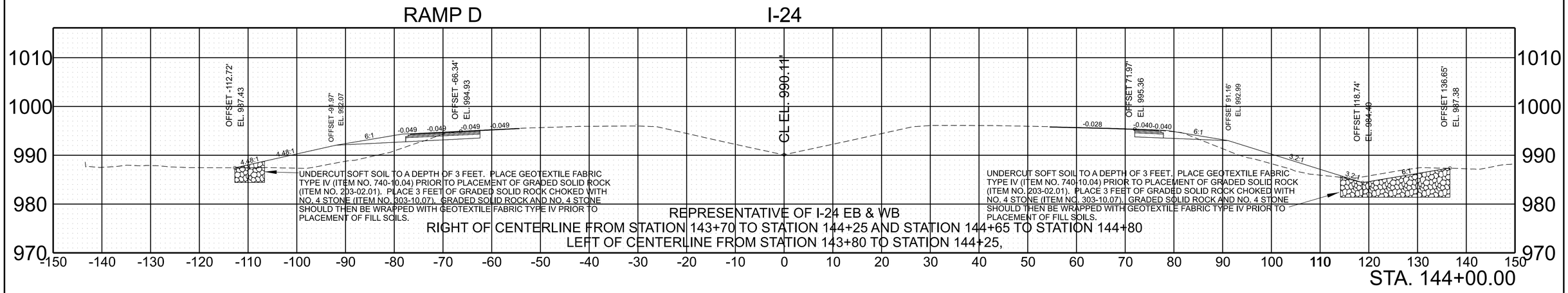
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

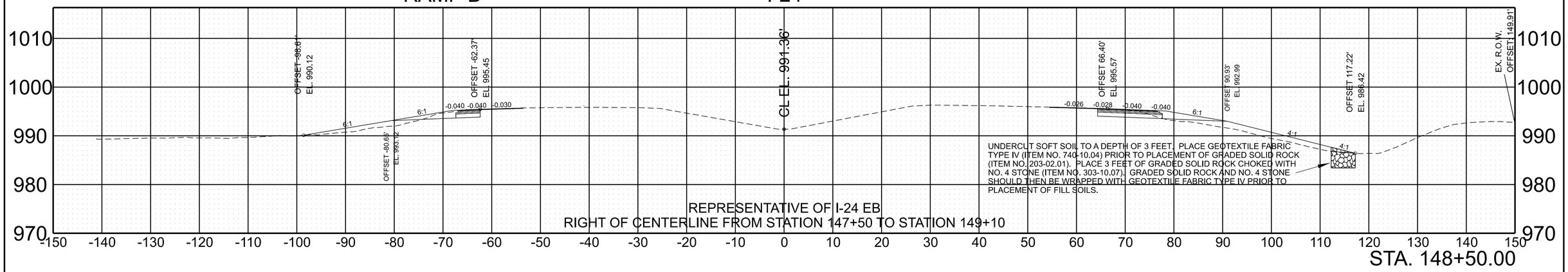
GEOTECHNICAL PAVEMENT CORING LAYOUT

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 100'

5/21/2026 8:53:39 AM
T:\CHATTANOOGA-1810\PROJECTS\2024\23430034_CONSOR ENGINEERS_I24 SR50 INTERCHANGE IMPROVEMENTS_GRUNDY CO. TN\GEO\CAD\GEOTECHNICAL - 05-2026\311024-GEO-SHT-PROPOSED LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-17





SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL

TYPICAL SECTIONS

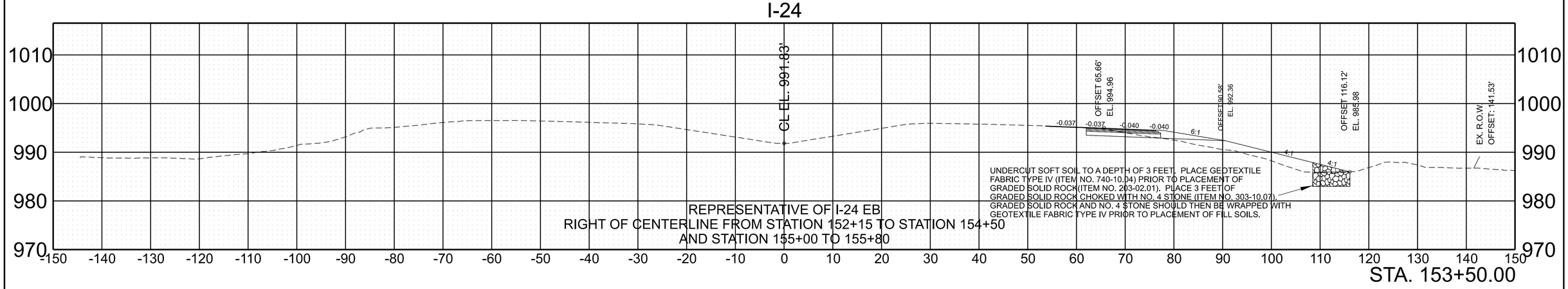
STA. 143+70 TO STA. 144+25 RIGHT
STA. 143+80 TO STA. 144+25 LEFT
STA. 144+65 TO STA. 144+80 RIGHT
STA. 147+50 TO STA. 149+10 RIGHT

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

GES No. 3115723 / PIN 132953.00

5/21/2026 9:15:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-18



SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL, OBTAINED ON 08-18-2022.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
TYPICAL SECTIONS

STA. 152+15 TO STA. 154+50 RIGHT
STA. 155+00 TO STA. 155+80 RIGHT

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

GES No. 3115723 / PIN 132953.00

5/21/2026 9:07:03 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	311024-S3-002	G-19

HIGH-MAST LIGHTING TOWER 1 (HM-1)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	5.5	1003	997.5	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A
2	CLAY	5.5	27	997.5	976	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A
3	MUD SEAM	27	35	976	968	80	100	N/A	0	24	0.02	30	N/A	N/A	N/A	N/A	N/A
4	LIMESTONE	35	45	968	958	170	N/A	N/A	5,500	44	0.001	N/A	1,500	0.32	8	300	34.9

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-2)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	12	1008	996	120	750	N/A	75	26	0.01	100	N/A	N/A	N/A	N/A	N/A
2	CLAY	12	40	996	968	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-3)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	17	1009	992	120	750	N/A	75	26	0.01	100	N/A	N/A	N/A	N/A	N/A
2	CLAY	17	40	992	969	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-4)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	5.5	996	990.5	120	750	N/A	75	26	0.01	100	N/A	N/A	N/A	N/A	N/A
2	CLAY	5.5	21	990.5	975	120	1,500	N/A	150	26	0.007	500	N/A	N/A	N/A	N/A	N/A
3	LIMESTONE	21	27.5	975	968.5	170	N/A	N/A	5,500	44	0.001	N/A	1,500	0.32	8	300	34.9
4	VOID	27.5	28.5	968.5	967.5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	LIMESTONE	28.5	31.5	967.5	964.5	170	N/A	N/A	5,500	44	0.001	N/A	1,500	0.32	8	300	34.9

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-5)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	3	1003	1000	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A
2	CLAY	3	27.5	1000	975.5	120	1,000	N/A	100	26	0.007	100	N/A	N/A	N/A	N/A	N/A

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-6)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	8	1009	1001	120	750	N/A	75	26	0.007	100	N/A	N/A	N/A	N/A	N/A
2	CLAY	8	36.5	1001	972.5	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-7)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	12	1008	996	120	1,000	N/A	100	26	0.007	500	N/A	N/A	N/A	N/A	N/A
2	CLAY	12	27	996	981	120	1,000	N/A	100	26	0.007	100	N/A	N/A	N/A	N/A	N/A
3	MUD SEAM	27	33.5	981	974.5	80	100	N/A	0	24	0.02	30	N/A	N/A	N/A	N/A	N/A
4	LIMESTONE	33.5	44	974.5	964	170	N/A	N/A	5,500	44	0.001	N/A	1,500	0.32	8	300	34.9

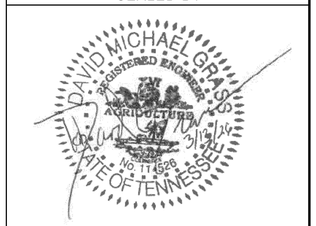
* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 1 (HM-8)

ZONE	SOIL / ROCK TYPE	DEPTH (FT)				TOTAL UNIT WEIGHT (PCF)	SHEAR STRENGTH PARAMETERS				STRAIN E_{50}	SOIL MODULUS, K_i(PCI)*	ROCK ELASTIC MODULES, E_i(KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)								
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0	5.5	996	990.5	120	750	N/A	75	26	0.01	100	N/A	N/A	N/A	N/A	N/A
2	CLAY	5.5	20	990.5	976	120	500	N/A	50	24	0.01	100	N/A	N/A	N/A	N/A	N/A
3	MUD SEAM	20	37.5	976	958.5	80	100	N/A	0	24	0.02	30	N/A	N/A	N/A	N/A	N/A
4	LIMESTONE	37.5	40	958.5	956	170	N/A	N/A	5,000	42	0.001	N/A	1,500	0.32	8	N/A	34.9
5	VOID	40	42.5	956	953.5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	LIMESTONE	42.5	46.5	953.5	949.5	170	N/A	N/A	5,000	42	0.001	N/A	1,500	0.32	8	300	34.9
7	VOID	46.5	54	949.5	942	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	LIMESTONE	54	56	942	940	170	N/A	N/A	5,000	42	0.001	N/A	1,500	0.32	8	300	34.9

* POUNDS PER CUBIC INCH
**CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

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DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
HIGH MAST LIGHTING
TABLES

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COMPANY NAME : KCI TECHNOLOGIES INC.
ADDRESS: 500 11th AVE N SUITE 290

CITY, STATE: NASHVILLE, TN 37203
PE NAME, P.E. NO.: JONATHAN CLEGHON 107340

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
INDEX OF SHEETS AND STANDARD LIGHTING DRAWINGS	L-1
LIGHTING DETAILS (POLE DATA)	L-2
CONTROL CENTER SCHEDULE AND ESTIMATED LIGHTING QUANTITIES	L-3
PROPOSED LIGHTING LAYOUT	L-4 – L-10

YEAR	PROJECT NO.	SHEET NO.
2026	31I024-S3-002	LIGHTING-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	31I024-S3-002	L-1
PS&E	2026	31I024-S3-002	L-1

INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	LIGHTING-SIGN1
INDEX OF SHEETS AND STANDARD LIGHTING DRAWINGS	L-1
LIGHTING DETAILS (POLE DATA)	L-2
CONTROL CENTER SCHEDULE AND ESTIMATED LIGHTING QUANTITIES	L-3
PROPOSED LIGHTING LAYOUTS	L-4 – L-10

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-202.00 LIGHTING AND UTILITY POLES		
T-L-1	7/15/2024	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1TM	7/15/2024	STANDARD LIGHTING DETAILS - TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-3	7/15/2024	STANDARD LIGHTING DETAILS - PULL BOXES
T-L-4	7/15/2024	STANDARD LIGHTING DETAILS - CONDUIT, CABLE INSTALLATION
T-L-5		STANDARD LIGHTING DETAILS - CONTROL CENTER DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
10-300.00 NEW STRUCTURES		
STD-8-4	2/26/2025	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS

SEALED BY

JONATHAN M. CLEGHON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
OMES
NO. 107340
STATE OF TENNESSEE

05/26/2026

COORDINATES ARE NAD 83( ), ARE
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ALL ELEVATIONS ARE REFERENCED
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
AND STANDARD
LIGHTING DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	311024-S3-002	L-2
PS&E	2026	311024-S3-002	L-2

ROADWAY LIGHT POLE SCHEDULE

LIGHT POLE NO.	SHEET NO.	WATTAGE	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	MOUNTING HEIGHT (FT)	CONTROL CENTER NO.	CIRCUIT NO.	WIRE SIZE (AWG)	BASELINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
LP1	L-4	182	240	A	1	40	1	1-3	#6	I-24	103+87.31	102.90	LT.	354126.9570	1995986.1810
LP2	L-4	182	240	A	1	40	1	1-1	#6	I-24	106+37.67	89.71	LT.	353920.7530	1996128.7780
LP3	L-4	182	240	A	1	40	1	1-3	#6	I-24	108+88.64	90.14	LT.	353722.3920	1996282.5300
LP4	L-5	182	240	A	1	40	1	1-1	#6	I-24	111+39.04	89.78	LT.	353524.0000	1996435.3150
LP5	L-5	182	240	A	1	40	1	1-3	#6	I-24	113+89.32	89.88	LT.	353325.9340	1996588.2170
LP6	L-5	182	240	A	1	40	1	1-1	#6	I-24	116+40.11	89.29	LT.	353127.1470	1996741.2100
LP7	L-5	182	240	A	1	40	1	1-3	#6	I-24	118+90.88	89.62	LT.	352928.8790	1996894.7660
LP8	L-5	182	240	A	1	40	1	1-1	#6	I-24	121+40.96	107.23	LT.	352741.7300	1997061.5620
LP9	L-5	182	240	A	1	40	2	2-1	#6	I-24	111+44.45	75.18	RT.	353418.886	1996308.0650
LP10	L-5	182	240	A	1	40	2	2-3	#6	I-24	113+91.67	87.26	RT.	353215.8430	1996449.6190
LP11	L-5	182	240	A	1	40	2	2-1	#6	I-24	116+42.43	90.56	RT.	353015.3760	1996600.2940
LP12	L-5	182	240	A	1	40	2	2-3	#6	I-24	118+92.73	90.83	RT.	352817.1156	1996753.0827
LP13	L-5	182	240	A	1	40	2	2-1	#6	I-24	121+42.51	107.91	RT.	352608.9910	1996892.2460
LP14	L-6	182	240	A	1	40	1	1-1	#6	SR-50	23+95.21	38.72	LT.	352271.1516	1997852.6228
LP15	L-6	182	240	A	1	40	2	2-3	#6	SR-50	15+34.26	52.63	LT.	351755.8260	1997162.7970
LP16	L-7	182	240	A	1	40	1	1-2	#6	I-24	138+97.14	113.84	LT.	351355.8980	1998140.3080
LP17	L-7	182	240	A	1	40	1	1-4	#6	I-24	141+46.84	90.53	LT.	351144.0250	1998274.4920
LP18	L-7	182	240	A	1	40	1	1-2	#6	I-24	143+80.93	90.54	LT.	350953.7728	1998417.5914
LP19	L-7	182	240	A	1	40	1	1-4	#6	I-24	146+35.22	84.29	LT.	350753.7018	1998568.0915
LP20	L-7	182	240	A	1	40	2	2-2	#6	I-24	139+31.63	109.81	RT.	351191.8830	1997984.3980
LP21	L-7	182	240	A	1	40	2	2-4	#6	I-24	141+81.54	90.62	RT.	351005.8330	1998152.3330
LP22	L-7	182	240	A	1	40	2	2-2	#6	I-24	144+32.21	91.05	RT.	350807.1870	1998305.2300
LP23	L-7	182	240	A	1	40	2	2-4	#6	I-24	146+82.62	90.76	RT.	350609.1830	1998458.5270
LP24	L-8	182	240	A	1	40	1	1-2	#6	I-24	148+86.03	74.82	LT.	350549.4160	1998713.9120
LP25	L-8	182	240	A	1	40	2	2-2	#6	I-24	149+32.65	91.13	RT.	350411.0790	1998611.0650
LP26	L-8	182	240	A	1	40	2	2-4	#6	I-24	151+21.92	98.05	RT.	350257.7822	1998716.9347
LP27	L-8	182	240	A	1	40	2	2-2	#6	I-24	153+11.32	96.00	RT.	350106.1898	1998825.0476
LP28	L-8	182	240	A	1	40	2	2-4	#6	I-24	155+77.84	84.12	RT.	349891.5685	1998976.3308
LP29	L-9	182	240	A	1	40	2	2-3	#6	SR-50	11+98.46	50.49	LT.	351548.8410	1996898.3650
LP30	L-9	182	240	A	1	40	2	2-1	#6	SR-50	13+68.71	49.09	LT.	351651.8160	1997033.9480
LP31	L-10	182	240	A	1	40	1	1-3	#6	SR-50	25+64.72	36.82	LT.	352373.2820	1997987.9290
LP32	L-10	182	240	A	1	40	1	1-1	#6	SR-50	27+33.34	35.08	LT.	352473.1140	1998126.1140

ROADWAY LIGHT HIGHMAST POLE SCHEDULE

LIGHT POLE NO.	SHEET NO.	WATTAGE	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	MOUNTING HEIGHT (FT)	CONTROL CENTER NO.	CIRCUIT NO.	WIRE SIZE (AWG)	BASELINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
HM1	L-6	195	240	B	6	120	1	1-5 & 1-7	#6	I-24	125+00.04	106.40	LT.	352457.0370	1997280.4010
HM2	L-6	195	240	B	6	120	1	1-5 & 1-7	#6	I-24	129+15.26	168.93	LT.	352166.6477	1997583.7047
HM3	L-6	195	240	B	6	120	1	1-6 & 1-8	#6	I-24	131+47.80	166.55	LT.	351981.1627	1997723.9707
HM4	L-6	195	240	B	6	120	1	1-6 & 1-8	#6	I-24	135+42.85	115.48	LT.	351637.2847	1997925.0347
HM5	L-6	195	240	B	6	120	2	2-5 & 2-7	#6	I-24	125+10.49	109.45	RT.	352316.8220	1997115.9700
HM6	L-6	195	240	B	6	120	2	2-5 & 2-7	#6	I-24	129+11.41	149.70	RT.	351974.9287	1997329.1827
HM7	L-6	195	240	B	6	120	2	2-6 & 2-8	#6	I-24	131+46.35	143.31	RT.	351792.8887	1997477.8527
HM8	L-6	195	240	B	6	120	2	2-6 & 2-8	#6	I-24	135+62.02	105.17	RT.	351487.2460	1997762.1275

ROADWAY LIGHT UNDERPASS SCHEDULE

LIGHT POLE NO.	SHEET NO.	WATTAGE	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	MOUNTING HEIGHT (FT)	CONTROL CENTER NO.	CIRCUIT NO.	WIRE SIZE (AWG)	BASELINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
UPL1	L-6	52	240	C	1	17*	1	1-5	#6	I-24	130+12.11	64.65	LT.	352025.2520	1997559.0754
UPL2	L-6	52	240	C	1	17*	1	1-5	#6	I-24	130+59.31	64.65	LT.	351987.7248	1997587.7136
UPL3	L-6	52	240	C	1	17*	2	2-5	#6	I-24	130+12.11	65.48	RT.	351947.7563	1997458.6429
UPL4	L-6	52	240	C	1	17*	2	2-5	#6	I-24	130+59.31	65.48	RT.	351910.2150	1997487.5334

*UNDERPASS LUMINAIRE IS MOUNTED TO BOTTOM OF BRIDGE DECK

A - LED ROADWAY LUMINAIRE
B - LED HIGH MAST LUMINAIRE
C - UNDERPASS LUMINAIRE

SEALED BY

JONATHAN M. CLEGHON
REGISTERED ENGINEER
No. 107340
STATE OF TENNESSEE

05/26/2026

COORDINATES ARE NAD 83( ), ARE
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OF AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
DETAILS
(POLE DATA)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	31I024-S3-002	L-3
PS&E	2026	31I024-S3-002	L-3

CONTROL CENTER SCHEDULE '1'

CONTROL CENTER NO.	MAIN CIRCUIT BREAKER (AMPS) '1'	BRANCH CIRCUIT BREAKERS (AMPS)								BASELINE	STATION	OFFSET (FT)	SIDE	SHEET NO.
		CIR. 1-1	CIR. 1-2	CIR. 1-3	CIR. 1-4	CIR. 1-5	CIR. 1-6	CIR. 1-7	CIR. 1-8					
1	200	20	20	20	20	20	20	20	20	SR-50	22+93.63	80.44	LT	L-6
	DESCRIPTION: LIGHT POLES	LP2, LP4, LP6, LP8, LP14, LP32	LP16, LP18, LP24	LP1, LP3, LP5, LP7, LP31	LP17, LP19	UPL1, UPL2, HM1, HM2	HM3, HM4	HM1, HM2	HM3, HM4					
	AMPS	4.55	2.27	3.79	1.52	5.31	4.88	4.88	4.88					

CONTROL CENTER SCHEDULE '2'

CONTROL CENTER NO.	MAIN CIRCUIT BREAKER (AMPS) '2'	BRANCH CIRCUIT BREAKERS (AMPS)								BASELINE	STATION	OFFSET (FT)	SIDE	SHEET NO.
		CIR. 2-1	CIR. 2-2	CIR. 2-3	CIR. 2-4	CIR. 2-5	CIR. 2-6	CIR. 2-7	CIR. 2-8					
2	200	20	20	20	20	20	20	20	20	SR-50	16+10.87	105.33	LT	L-6
	DESCRIPTION: LIGHT POLES	LP9, LP11, LP13, LP30	LP20, LP22, LP25, LP27	LP10, LP12, LP15, LP29	LP21, LP23, LP26, LP28	UPL3, UPL4, HM5, HM6	HM7, HM8	HM5, HM6	HM 7, HM8					
	AMPS	3.03	3.03	3.03	3.03	5.31	4.88	4.88	4.88					

ESTIMATED LIGHTING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 31I024-S3-002
(1)	714-04.02	CONDUIT (STRUCTURES - 2" RGS)	L.F.	250
	714-04.04	CONDUIT (3" PVC JACK/BORE SCH 80)	L.F.	730
	714-04.05	CONDUIT (2" PVC)	L.F.	12195
	714-05.04	PULL BOXES (TYPE C)	EACH	15
	714-06.05	CABLE (1/C # 6 AWG)	L.F.	51070
	714-08.09	LIGHT STANDARDS (ALUMINUM, 40')	EACH	32
(2)	714-08.10	LIGHT STANDARDS (120' HIGHMAST)	EACH	8
	714-08.23	FOUNDATION (ONLY) FOR LIGHT STANDARDS	EACH	32
(3)	714-08.47	FOUNDATION (ONLY) FOR HIGH MAST LIGHT STANDARD	EACH	8
(4)	714-09.47	LED LUMINAIRES (182 WATT)	EACH	32
(5)	714-09.64	LED LUMINAIRES-HIGH MAST (195 WATT)	EACH	48
(6)	714-09.83	LED LUMINAIRES-UNDERPASS (52 WATT)	EACH	4
	714-12.01	CONTROL CENTER (NO. 1)	LS	1
	714-12.02	CONTROL CENTER (NO. 2)	LS	1
(7),(8)	714-25.01	ELECTRICAL CONNECTION (NO.1)	LS	1
(7),(8)	714-25.02	ELECTRICAL CONNECTION (NO.2)	LS	1
(9)	714-70.56	#6 AWG GROUND WIRE BARE SOLID COPPER	L.F.	13175

FOOTNOTES

(1) FOR USE WITH UNDERPASS LIGHTING. SHALL BE STRAPPED TO THE BRIDGE AND INCLUDES ALL APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION
(2) HIGH MAST LIGHT STANDARDS SHALL BE EQUIPPED WITH RAISING/LOWERING SYSTEMS AS APPROVED BY TDOT AND SVEC
(3) SEE SHEET G-19 FOR DETAILS ON HIGH MAST LIGHT STANDARD FOUNDATIONS
(4) OFFSET FIXTURE TYPE GE ERLS 030 C6 40, OR APPROVED EQUIVALENT.
(5) HIGH MAST FIXTURE TYPE GE ERHM 033030VW740, OR APPROVED EQUIVALENT.
(6) UNDERPASS FIXTURE TYPE GE EWLS 02 3 70 AF 70 40, OR APPROVED EQUIVALENT.
(7) SEQUACHEE VALLEY ELECTRIC COOPERATIVE (SVEC) CONTACT PERSON:
MR. LUCAS MARSH
(423) 837-8605
LMARSH@SVALLEYEC.COM
(8) CONTRACTOR TO COORDINATE AND VERIFY ALL REQUIREMENTS FOR THE ELECTRICAL CONNECTIONS (NO. 1 AND NO. 2) WITH SVEC
(9) #6 AWG CONDUCTORS TO BE INSTALLED AS GROUND CONDUCTOR FOR ALL UNDERGROUND CIRCUITS

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JONATHAN M. CLEGHON REGISTERED ENGINEER AGRICULTURE COMMERCE OMMES No. 107340 STATE OF TENNESSEE

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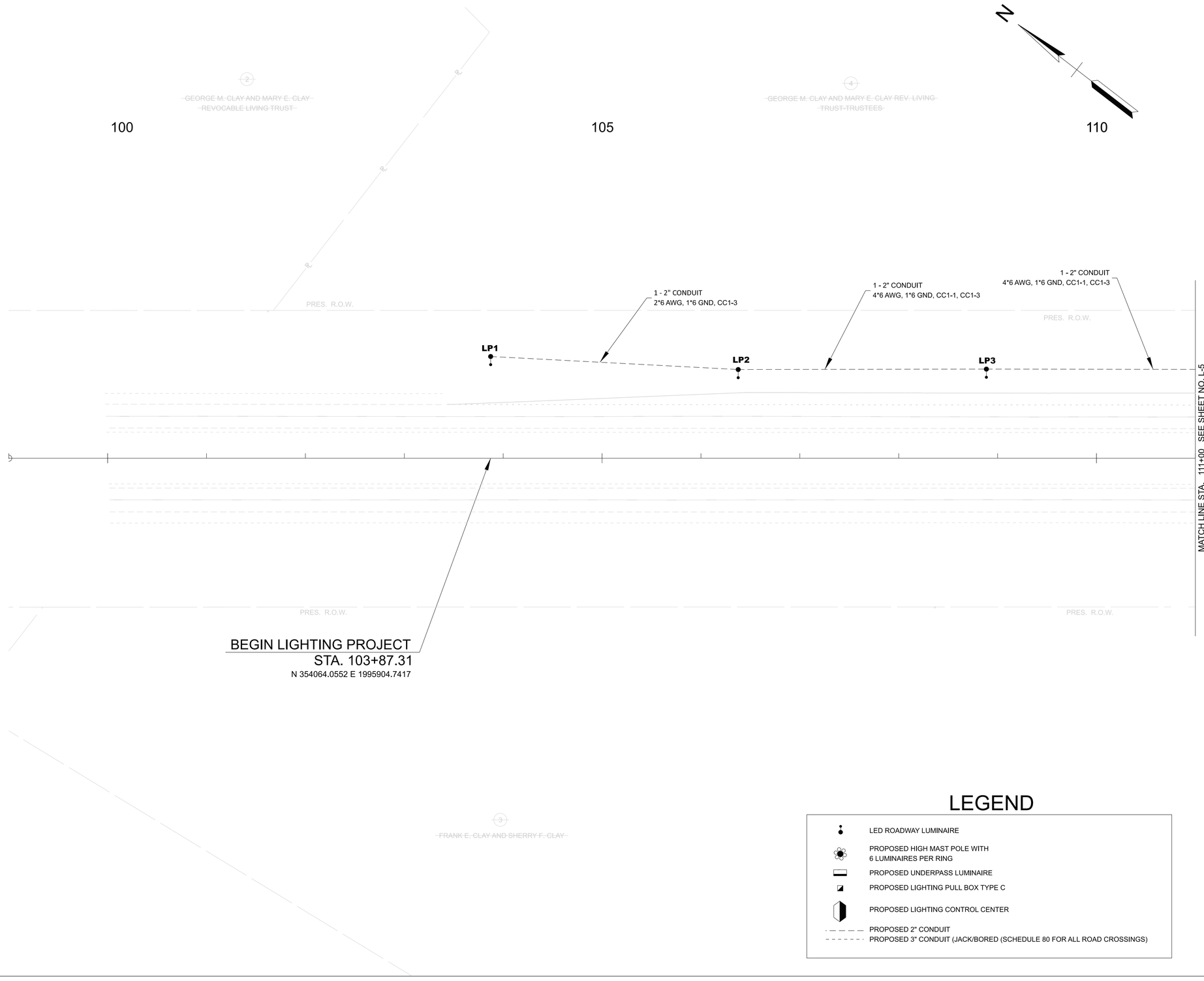
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CONTROL CENTER SCHEDULE AND ESTIMATED LIGHTING QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	311024-S3-002	L-4
PS&E	2026	311024-S3-002	L-4	



LEGEND

- LED ROADWAY LUMINAIRE
- PROPOSED HIGH MAST POLE WITH 6 LUMINAIRES PER RING
- PROPOSED UNDERPASS LUMINAIRE
- PROPOSED LIGHTING PULL BOX TYPE C
- PROPOSED LIGHTING CONTROL CENTER
- PROPOSED 2" CONDUIT
- PROPOSED 3" CONDUIT (JACK/BORED (SCHEDULE 80 FOR ALL ROAD CROSSINGS)

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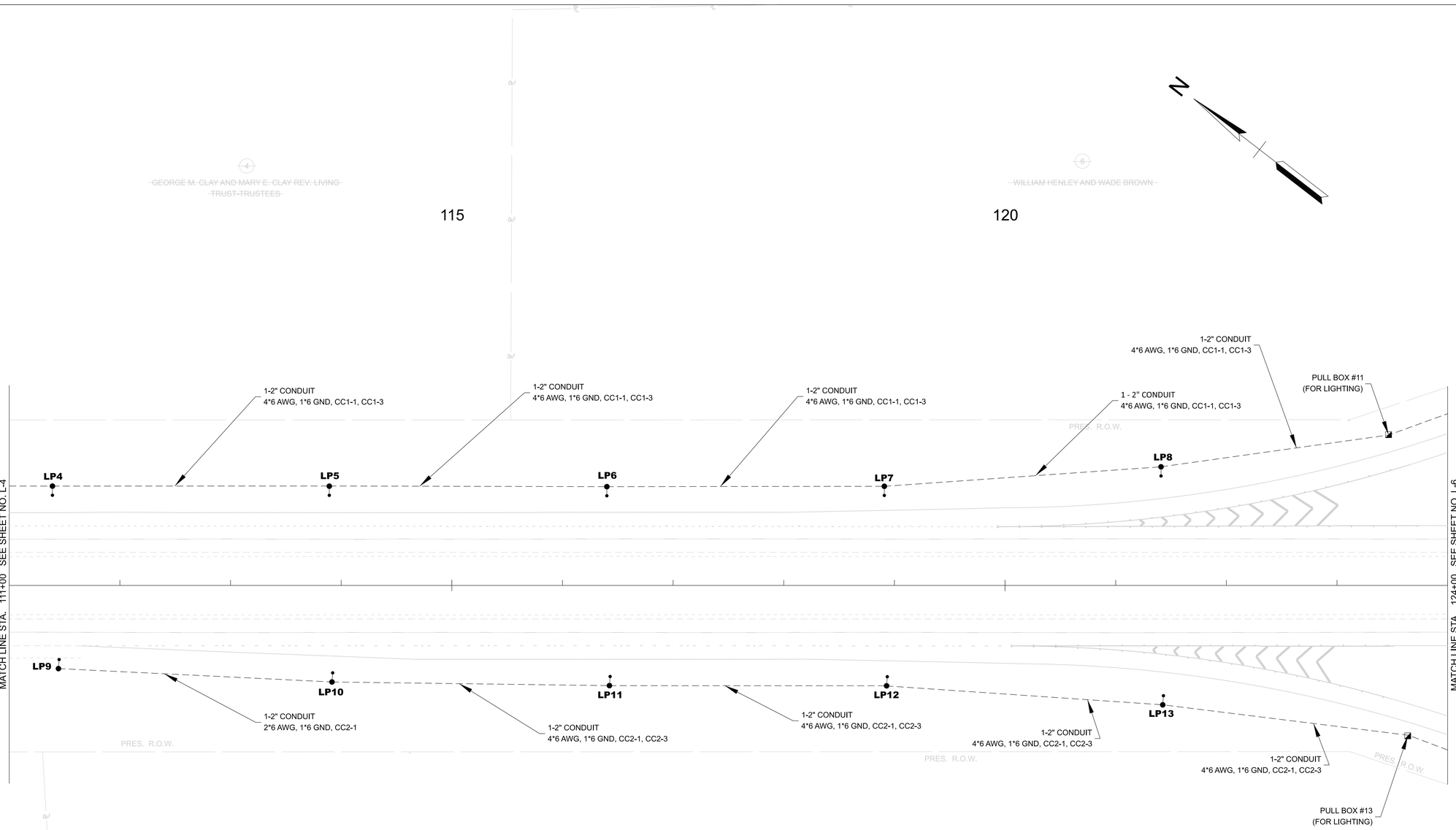
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DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING LAYOUT

STA. 100+00.00 TO STA. 111+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	31I024-S3-002	L-5
PS&E	2026	31I024-S3-002	L-5



LEGEND

- LED ROADWAY LUMINAIRE
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PROPOSED LIGHTING LAYOUT

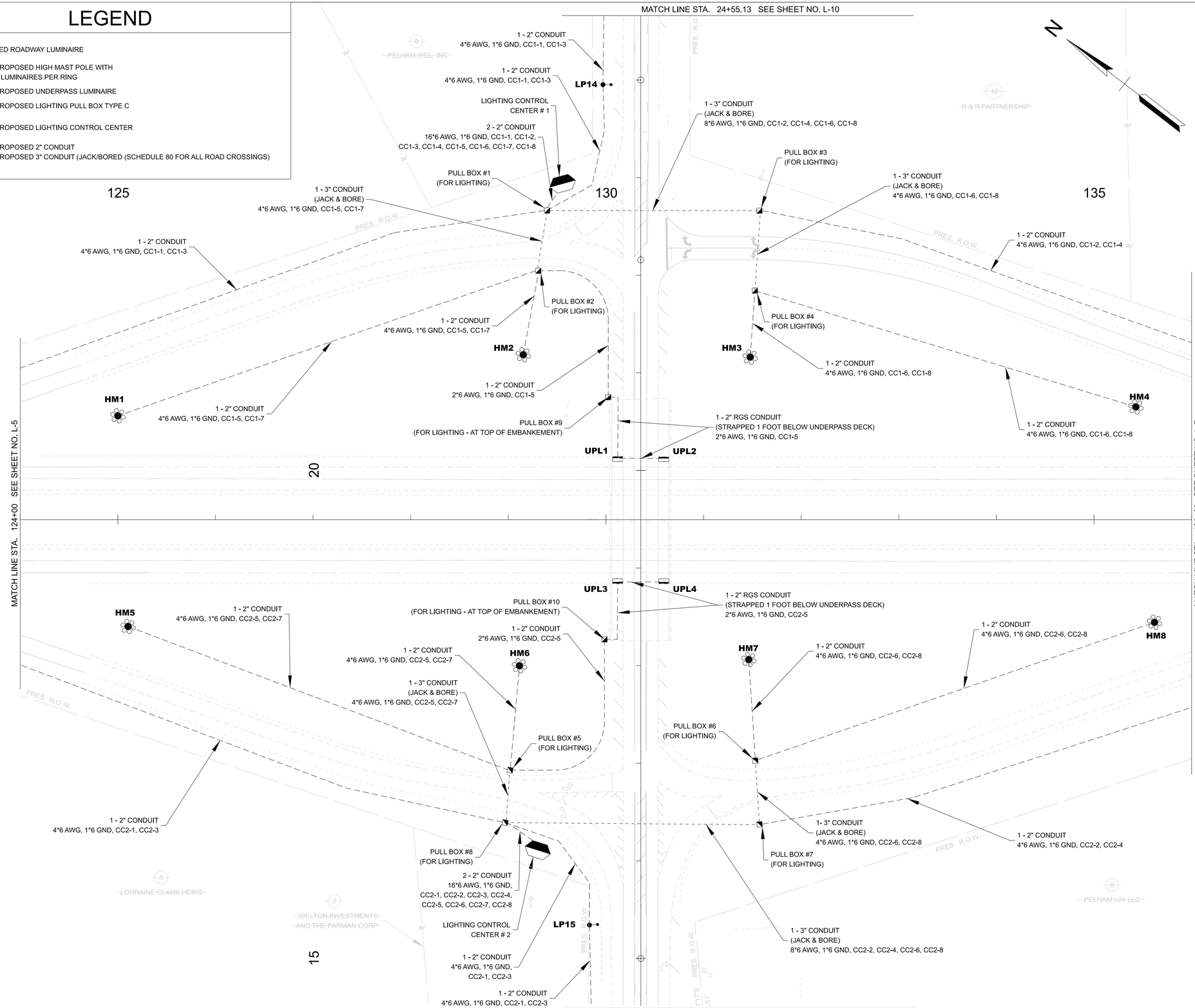
STA. 111+00.00 TO STA. 124+00.00
SCALE: 1" = 50'

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LEGEND

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	311024-S3-002	L-6
PS&E	2026	311024-S3-002	L-6



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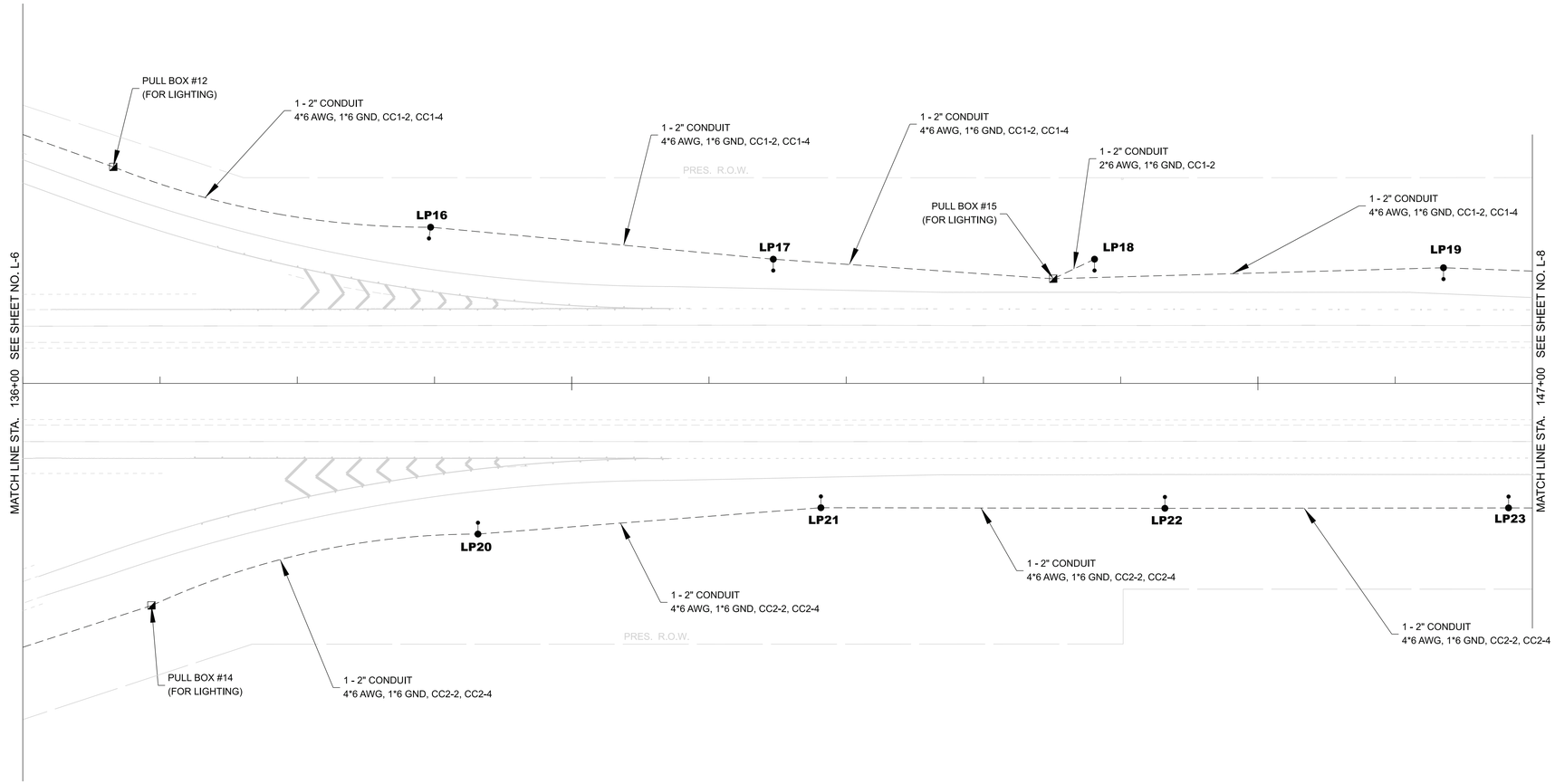
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PROPOSED LIGHTING LAYOUT

STA. 124+00.00 TO STA. 136+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	311024-S3-002	L-7
PS&E	2026	311024-S3-002	L-7



LEGEND

- LED ROADWAY LUMINAIRE
- PROPOSED HIGH MAST POLE WITH 6 LUMINAIRES PER RING
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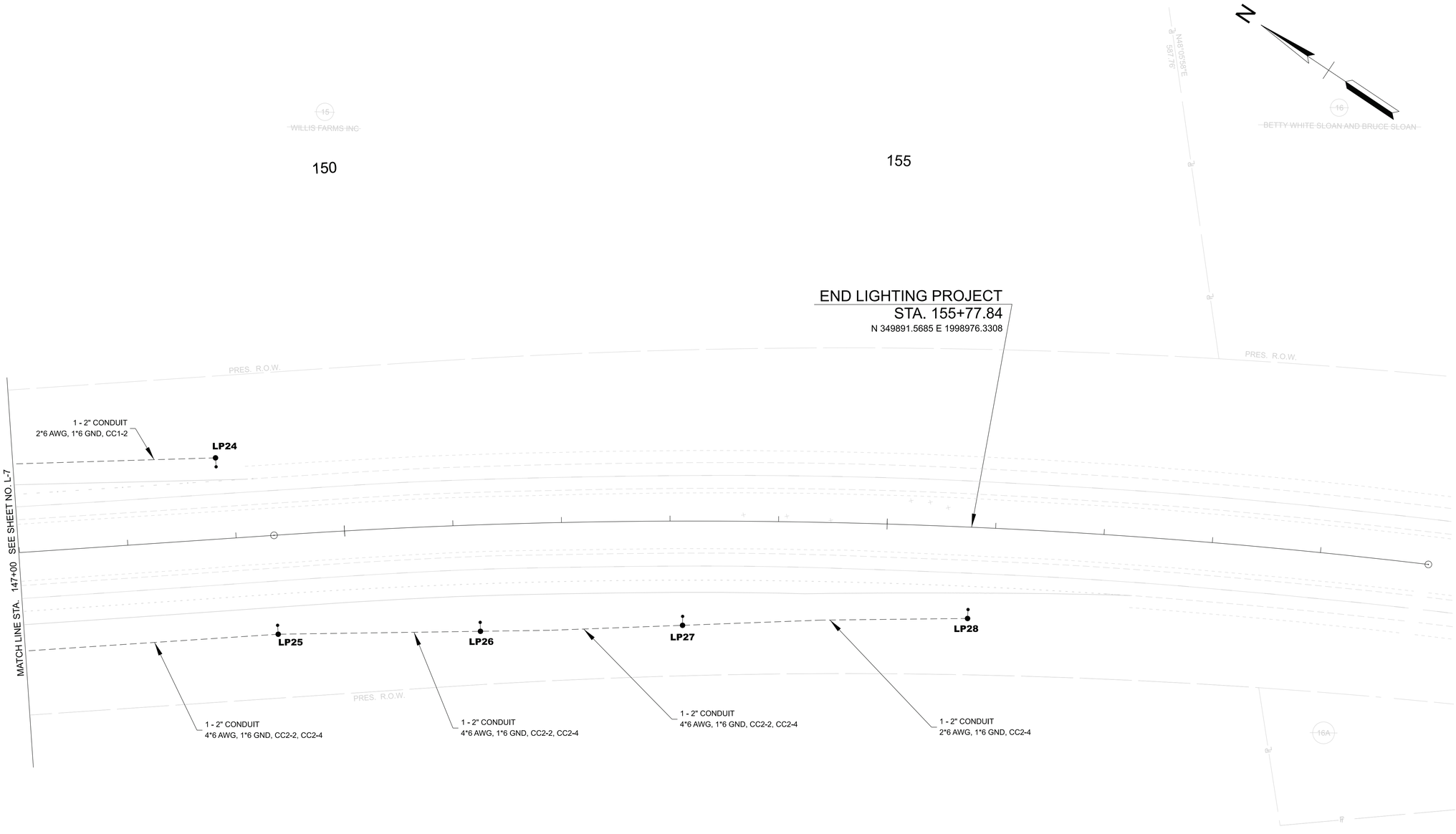
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PROPOSED LIGHTING LAYOUT

STA. 136+00.00 TO STA. 147+00.00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	311024-S3-002	L-8
PS&E	2026	311024-S3-002	L-8



LEGEND

- LED ROADWAY LUMINAIRE
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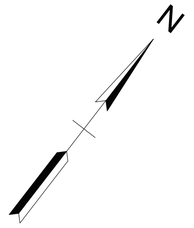
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PROPOSED LIGHTING LAYOUT

STA. 147+00.00 TO STA. 157+28.28
SCALE: 1" = 50'

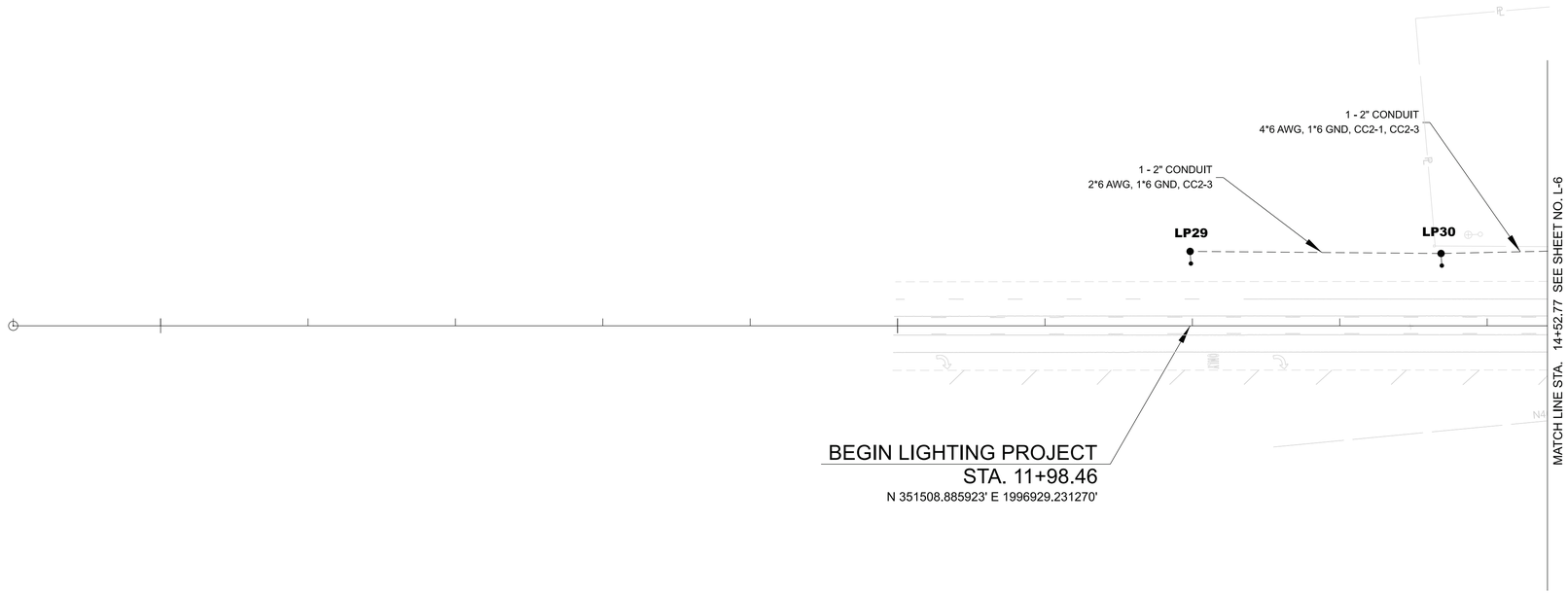
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	31I024-S3-002	L-9
PS&E	2026	31I024-S3-002	L-9



5

10



LEGEND

- LED ROADWAY LUMINAIRE
- PROPOSED HIGH MAST POLE WITH 6 LUMINAIRES PER RING
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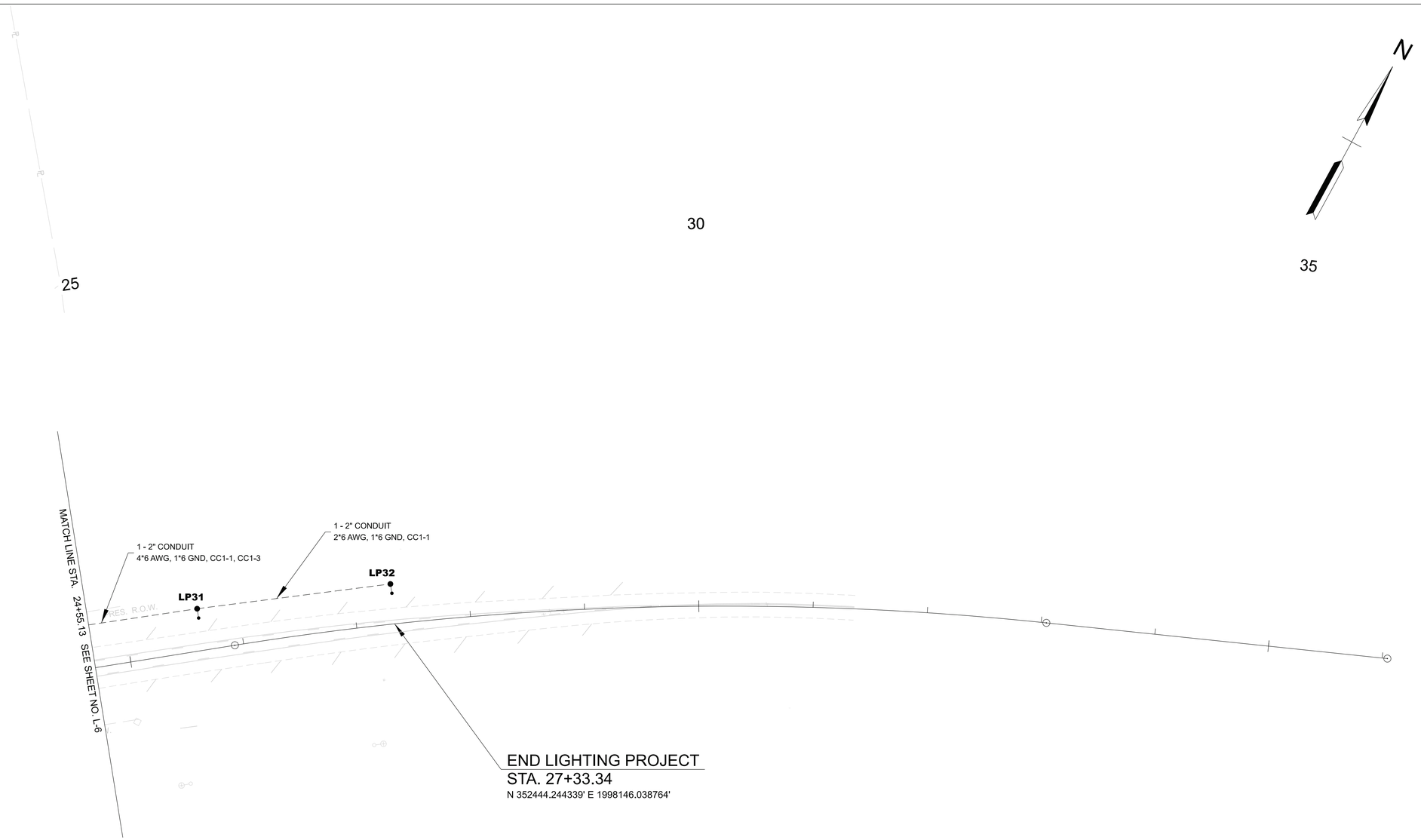
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PROPOSED LIGHTING LAYOUT

STA. 11+98.46 TO STA. 14+52.77
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	31I024-S3-002	L-10
PS&E	2026	31I024-S3-002	L-10



LEGEND

- LED ROADWAY LUMINAIRE
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PROPOSED LIGHTING LAYOUT

STA. 24+55.13 TO STA. 27+33.34
SCALE: 1" = 50'

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TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PE-D	2025	31I024-S1-003	
PS&E	2026	31I024-S3-002	S1

SWPPP INDEX OF SHEETS

DESCRIPTION	SHT.
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3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)	1
4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	1
5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)	2
6. FLOCCULANTS (3.5.3.1.b)	3
7. UTILITY RELOCATION	3
8. MAINTENANCE AND INSPECTION	4
9. SITE ASSESSMENTS (5.5.3.8.)	4
10. STORMWATER MANAGEMENT (5.5.3.11.h)	4
11. NON-STORMWATER DISCHARGES (5.5.3.12.)	5
12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)	5
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15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)	7
16. ENVIRONMENTAL PERMITS (1.5.2.)	7
17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)	8

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): 42.47 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 9.60 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: I-24 INTERCHANGE AT SR-50, LM 0.56 (EXIT 127)
COUNTY: GRUNDY
PIN: 132953.00

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) 16-16D, DRAINAGE MAP SHEET(S) 10-11, 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)
AGEE SILTY CLAY LOAM, OCC. FLOOD (Ag)	D	3	0.37
EMORY SILT LOAM (Em)	B	5	0.37
HAMBLEN LOAM, OCC. FLOOD (Ha)	B/D	3	0.32
NEWARK SILT LOAM, OCC. FLOOD (Ne)	B/D	5	0.43
SEQUATCHIE LOAM, 0-2% SLOPES (SeA)	B	8	0.32
WAYNESBORO LOAM, 2-7% SLOPES (WaB)	B	32	0.28
WAYNESBORO LOAM, 7-12% SLOPES (WaC2)	B	37	0.32
WHITWELL LOAM, RARELY FLOODED (Wh)	C	7	0.32

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 (ROAD)	15	36	0.95	0.9
PERVIOUS (GRASS)	27	64	0.60	0.3
WEIGHTED CURVE NUMBER OR C-FACTOR =			0.72	0.5

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS (ROAD)	16	38	0.95	0.9
PERVIOUS (GRASS)	26	62	0.60	0.3
WEIGHTED CURVE NUMBER OR C-FACTOR =			0.73	0.5

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. INSTALL STABILIZED CONSTRUCTION EXITS.

3.2. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.3. 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.

3.4. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.5. REMOVE AND STORE TOPSOIL.

3.6. 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).

3.7. INSTALL UTILITIES, STORM SEWERS, CULVERTS, BRIDGE STRUCTURES, AND NATURAL STREAM DESIGN.

3.8. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.9. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.10. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.11. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.12. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.13. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.14. 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)
NA					

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.

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DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

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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)
NA		

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) _____.

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:_____

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	127+05 CL	129+10 CL	0.000	0.000
WTL-2	137+80 RT	OFF PROJECT	0.200	0.070
WTL-3	136+25 LT	148+30 LT	0.300	0.010
WTL-4	OFF PROJECT	OFF PROJECT	0.000	0.000

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

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 2-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.)?

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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 15 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 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 15 (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, 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 EPA 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 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.

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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, 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 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): NA

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)

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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.

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 PROJECT 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.

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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 OF 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 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 THAT:

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.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PE-D	2025	31I024-S1-003	
PS&E	2026	31I024-S3-002	S7

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

April 7, 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	NR25.132, NR25.312b	5/15/2030
CORPS OF ENGINEERS (USACE)	YES	TBD	TBD
TVA 26A	NO	NA	NA
TDEC CGP	YES	NA	NA
OTHER:	NA	NA	NA

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

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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 (STAGE 1/STAGE 2/STAGE 3)	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
OUT-1		103+65 LT/103+46 LT/103+46 LT	0.76/0.11/0.11	0.62	0.70	0.70			NA	
OUT-2		117+33 RT/118+31 RT/118+31 RT	2.85/0.41/0.41	0.81	0.90	0.90			NA	
OUT-3		----/133+20 LT/133+20 LT	----/3.50/3.50		0.62	0.62			NA	
OUT-4		----/143+40 LT/----	----/NA/----		0.02				NA	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

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Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS, GENERAL NOTES AND UTILITY SHEETS	U1-1

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BUREAU OF ENGINEERING

GRUNDY COUNTY

I-24 INTERCHANGE AT SR-50, LM 0.56 (EXIT 127) (GFT)

SPECIAL NOTES

NO KNOWN UTILITY CONFLICTS

UTILITY OWNERS AND CONTACTS:

ELECTRIC: TENNESSEE VALLEY AUTHORITY 1101 MARKET ST MR-4G CHATTANOOGA, TN 37402 MR. STEPHEN WILLIAMS SEWILLIAMS@TVA.GOV (862)255-6272	ELECTRIC: SEQUACHEE VALLEY ELECTRIC COOPERATIVE 512 SOUTH CEDAR AVENUE SOUTH PITTSBERG, TN 37380 MR. LUCAS MARSH LMARSH@SVALLEYEC.COM (423)837-8605
ELECTRIC/FIBER: TDOT TRAFFIC OPERATIONS/ITS OFFICE 505 DEADERICK STREET, 18TH FLOOR NASHVILLE, TN 37243 MR. KHUZAIMA MAHDI KHUZAIMA.MAHDI@TN.GOC (615)532-0421	CABLE: BEN LOMAND 1335 MCARTHUR STREET MANCHESTER, TN 37355 MR. RICHARD BOYD RICHARDBOYD@BENLOMAND.ORG (931)450-1252
TELEPHONE: BEN LOMAND 1335 MCARTHUR STREET MANCHESTER, TN 37355 MR. RICHARD BOYD RICHARDBOYD@BENLOMAND.ORG (931)450-1252	WATER: HILLSVILLE UTILITY DISTRICT 117 N IRWIN ST MANCHESTER, TN 37355 MR. DUSTIN GALLAGHER HILLSUD@YAHOO.COM (931)728-1242

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UTILITY REFERENCE

$$$$$DGNSPEC$$$$$