THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Joseph DeLorenzo Digitally signed by Joseph DeLorenzo
Date: 2025.12.10 15:15:07 -05'00'

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

COMPANY NAME TDOT
ADDRESS 7512 VOLKSWAGEN DRIVE

CITY, STATE CHATTANOOGA, TN
PE NAME, PE NUMBER JOSEPH L. DELORENZO, 00125410

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
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F
UTILITY NOTES	3
PROPERTY MAP	3A
PRESENT LAYOUTS	4 – 6
RIGHT-OF-WAY DETAILS	4A – 6A
PROPOSED LAYOUTS	4B – 6B
PROPOSED PROFILES	4C – 6C
HAUL ROAD PROFILE	7
DRAINAGE MAPS	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	9, 10, 11-13C
ROADWAY CROSS SECTIONS	14 – 66
TRAFFIC CONTROL PLANS	T1 – T8
GEOTECHNICAL PLANS	G-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1

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

YEAR	PROJECT NO.	SHEET NO.
2026	PROT-I-24-2(198)	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

MARION COUNTY

I-24
SLIDE NEAR MM 137

PS&E
MITIGATION - SLIDE

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

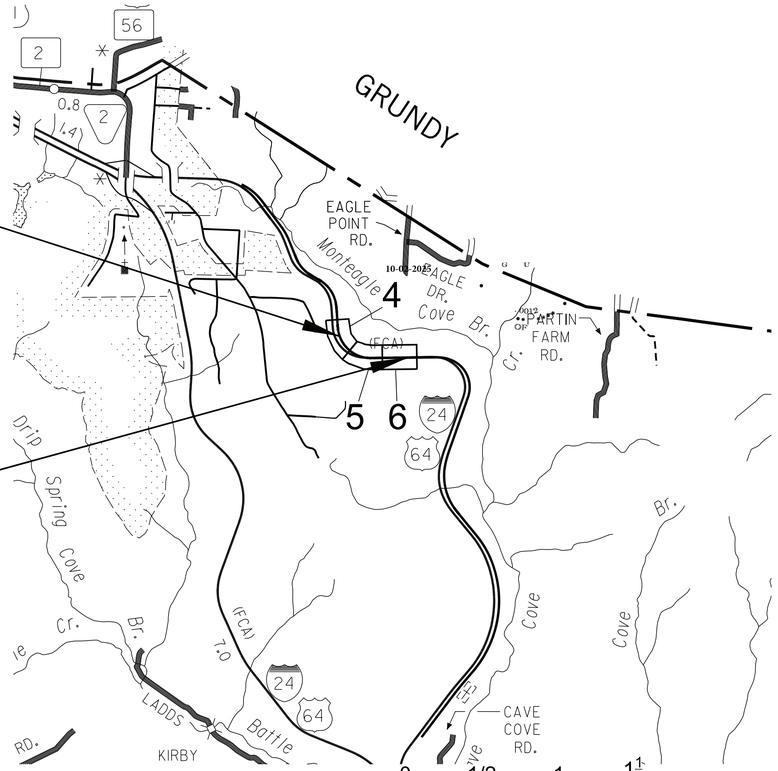
DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	PROT-I-24-2(198)	
STATE PROJ. NO.	58I024-F3-015	

NO EXCLUSIONS

PROT-I-24-2(198)
BEGIN PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 164+00.00 I-24WB
N 321510.5147 E 2027594.0799

PROT-I-24-2(198)
END PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 194+00.00 I-24WB
N 320587.4971 E 2030129.9057



SCALE: 1"= ½ MILE

PS&E
PLANS

SEALED BY

APPROVED:
SHANE HESTER, P.E. CHIEF ENGINEER

DATE:

APPROVED:
WILL REID, P.E. 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 JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

R.O.W. LENGTH	0.000 MILES
ROADWAY LENGTH	0.568 MILES
PROJECT LENGTH	0.568 MILES

SURVEY 11-18-25	TRAFFIC DATA	
	ADT (2026)	24,320
	ADT (2046)	36,480
	DHV (2026)	2,920
	D	55 - 45
	T (ADT)	21 %
	T (DHV)	31 %
	V	55 MPH

COORDINATES ARE NAD/83(1995) ADJUSTED BY
THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS
ARE REFERENCED TO THE NAVD 1988 USING GEOID 03

TDOT PROJECT MANAGER: MARLENA GORE, CPM
DESIGNER : OMAR REYES, EIT CHECKED BY : JOSEPH BURCHFIELD, P.E.
P.E. NO. 58I024-F1-015 (DESIGN)
PIN NO. 137001.01

12/5/2025 4:47:13 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\SI-24 SLIDE REPAIR\DGN\01-I24-TITLESHEET.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	1A

ROADWAY INDEX

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

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00		**STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS**
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	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
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**
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-S-11B		DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
10-106.00		**ROADWAY, PAVEMENT APPURTENANCES, AND FENCES**
S-F-1	03-01-23	HIGH VISIBILITY FENCE
10-108.00		**SAFETY DESIGN AND GUARDRAILS**
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-4	01-09-24	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE
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-GRC-4	10-31-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
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-SSMB-2	10-29-21	51” SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-6D		51” CONCRETE SINGLE SLOPE BARRIER WALL FOR ATTACHING GUARDRAIL
S-SSMB-6F		SINGLE GUARDRAIL ATTACHMENT TO SINGLE SLOPE 51” BARRIER WALL
10-109.00		**EROSION PREVENTION AND SEDIMENT CONTROL**
EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX & STANDARD DRAWINGS

12/8/2025 5:34:50 PM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\PAVEMENTEDGEANDDROPOFFNOTES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	1A1

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-204.00		**DESIGN - TRAFFIC CONTROL**
T-M-5	01-24-25	MARKING DETAIL FOR FREEWAYS
T-M-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-18A	01-24-25	DELINEATOR MOUNTING DETAILS
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-14	03-26-25	TWO-OUTSIDE LANE CLOSURE FOR INTERSTATES AND EXPRESSWAYS
T-WZ-16	03-26-25	LANE SHIFT FOR DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-60	03-26-25	FREEWAY RESURFACING SIGNING PROCEDURES
T-WZ-61	03-26-25	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
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-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	07-22-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
No. 0012540
STATE OF TENNESSEE

10-02-2025

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
TRAFFIC
DESIGN
DRAWINGS

12/8/2025 5:35:49 PM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\PAVEMENTEDGEANDDROPOFFNOTES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STATION / LOCATION
EDEC001	ENVIRONMENT	NO TREE CLEARING WITHIN PROJECT LIMITS FROM APRIL 1ST TO NOVEMBER 15TH.	Marion Co., I-24 MM 137.0 Rockfall Mitigation 35.214209, -85.799758

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

12/8/2025 5:36:18 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\01B-I24-PROJECTCOMMITMENTS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58I024-F3-015
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
(1)	201-01	CLEARING AND GRUBBING	LS	1
(1) (2) (3) (4)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	16069
(4)	203-01.11	PRESPLITTING OF ROCK EXCAVATION	S.Y.	3265
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	484
(4)	203-11	SCALING AND TRIMMING	S.Y.	800
(5) (6)	203-50	CONSTRUCTION OF HAUL ROAD	LS	1
(1)	209-03.20	FILTER SOCK (8 INCH)	L.F.	1000
(1)	209-05	SEDIMENT REMOVAL	C.Y.	21
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	525
(1)	209-08.07	ROCK CHECK DAM PER	EACH	4
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1
(7)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	80
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	6
	411-03.10	ACS MIX(PG76-22) GRADING D	TON	900
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	0.8
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	12000
(7)	604-03.07	CLASS A CONCRETE (PAD FOR 51" BARRIER WALL)	C.Y.	79
(4)	610-12.02	HORIZONTAL DRAINS	L.F.	510
	705-02.10	GUARDRAIL TRANSITION 27IN TO 31IN	EACH	1
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	2
(8)	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	289
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	1
	706-10.80	MICHIGAN AND MODIFIED MICHIGAN END SHOE	EACH	1
	707-02.43	ROCK ANCHOR, TYPE I	L.F.	504
	707-10.07	ROCKFALL DRAPE (TYPE III)	S.Y.	4667
(1) (2) (9)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	50
(4)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	4627
(10)	711-05.71	51IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	800
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1250
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	160
	712-04.50	BARRIER RAIL DELINEATOR	EACH	60
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	160
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	160
	712-06	SIGNS (CONSTRUCTION)	S.F.	460
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
(11)	712-08.11	QUEUE PROTECTION TRUCK	HOUR	200
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	900
(12)	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	75
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	75
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	75
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	5920
(13) (14)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	3.26
(13)	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	8500
	717-01	MOBILIZATION	LS	1
(1) (2) (9)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	86
(1)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	634
	801-01	SEEDING (WITH MULCH)	UNIT	33
	801-03	WATER (SEEDING & SODDING)	M.G.	5
(1)	803-01	SODDING (NEW SOD)	S.Y.	2907

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 TEMPORARY CONSTRUCTION EXIT.

(3) ITEM INCLUDES 1104 CY FOR DITCH DEBRIS REMOVAL, 8 CY FOR TEMPORARY CONSTRUCTION EXIT, AND 14957 CY FOR GEOTECHNICAL WORK.

(4) SEE G-SHEETS FOR GEOTECH QUANTITIES.

(5) ITEM NUMBER 203-50 SHALL INCLUDE GEOTEXTILE (TYPE IV), BORROW EXCAVATION (GRADED SOLID ROCK) OR MACHINED RIP-RAP (CLASS A-1, CLASS B, OR CLASS C), MINERAL AGGREGATE (SIZE 57), AND TEMPORARY DRAINAGE PIPE (IF APPLICABLE). THE MINERAL AGGREGRATE INCLUDES AN ADDITIONAL TEN (10) PERCENT FOR MAINTENANCE.

(6) HAUL ROAD TO REMAIN IN PLACE UPON PROJECT COMPLETION.

(7) ITEM TO BE USED UNDER PERM. WALL. SEE STD. DWG. S-PL-4 FOR DETAILS.

(8) ITEM INCLUDES 13.54 LF FOR MICHIGAN END SHOE AND 275 LF FOR LON AT END OF PERM. WALL.

(9) ITEM TO BE USED FOR TEMPORARY CONSTRUCTION EXIT.

(10) WALL MOUNTED DELINEATORS ARE INCLUDED IN THE PRICE OF THE WALL. SEE STD. DWG. T-M-18A FOR DETAILS.

(11) TO BE USED FOR ROLLING ROAD BLOCKS ACCORDING TO TDOT STD. DRAWING T-WZ-61 AND UNDER THE DIRECTION OF THE TDOT ENGINEER.

(12) FLEXIBLE DELINEATORS ARE TO BE YELLOW.

(13) CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION.

(14) INCLUDES 1.8 LM FOR TRAFFIC CONTROL.

SEALED BY

JOSEPH L. DELORENZO — REGISTERED ENGINEER — AGRICULTURE — No. 0012540 — STATE OF TENNESSEE

10-02-2025

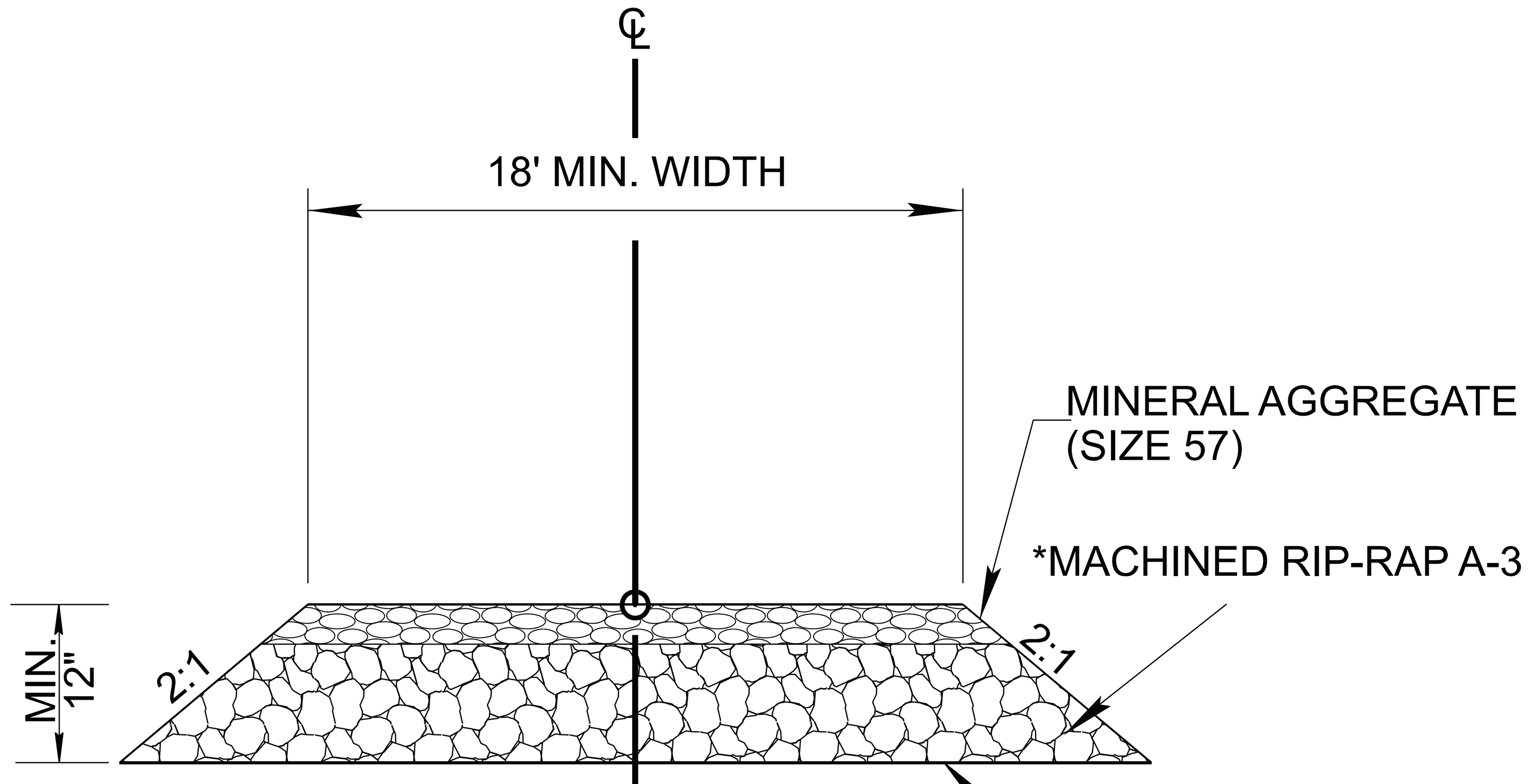
12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

12/10/2025 2:53:51 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\02-I24-QUANTITIES.DGN

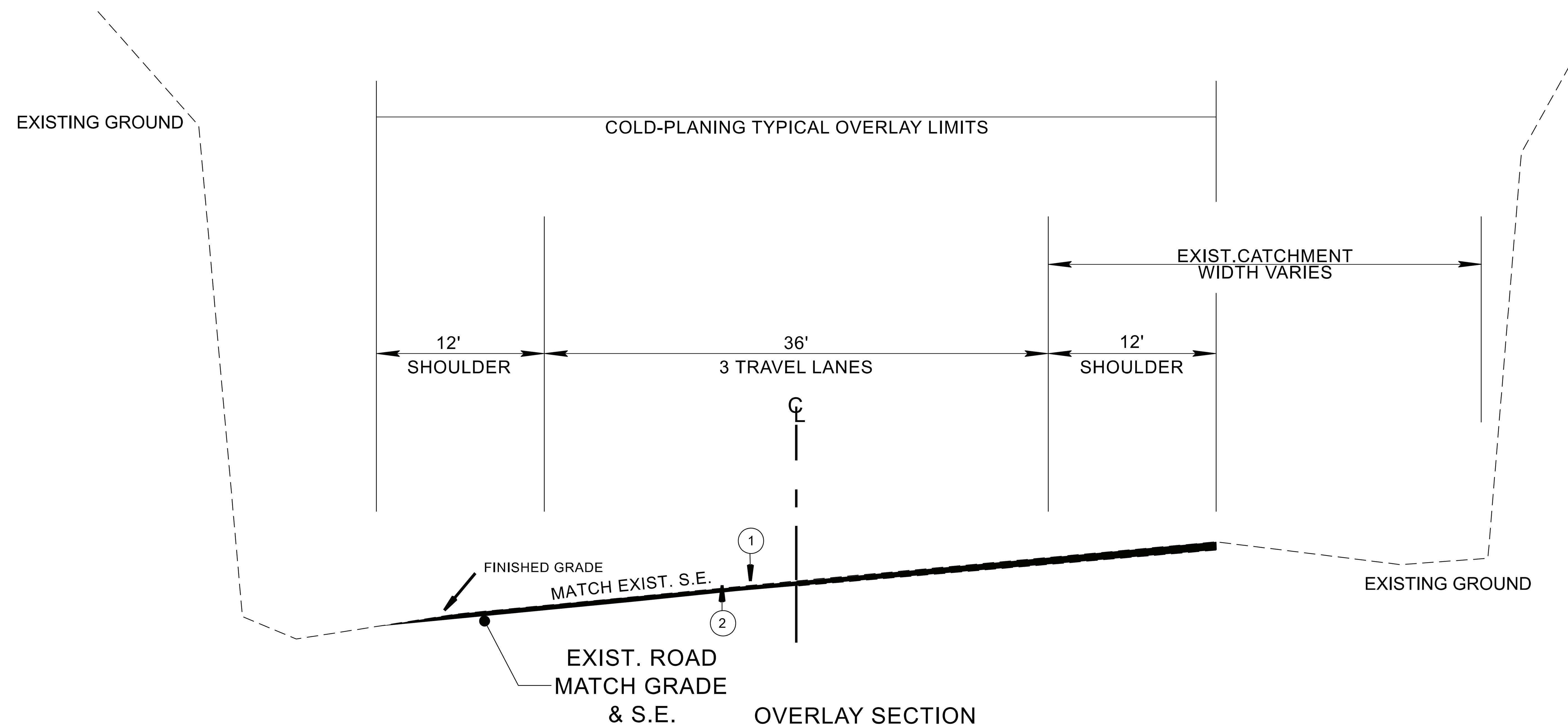
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2B



TYPICAL SECTION
HAUL ROAD

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

- MACHINED RIP-RAP (CLASS A-1)
- MACHINED RIP-RAP (CLASS B)
- MACHINED RIP-RAP (CLASS C)
- MACHINED RIP-RAP A-3



OVERLAY SECTION
I-24 WESTBOUND

(BASED ON EXISTING GROUND CROSS SECTION AT STA. 174+00.00)

FROM STA. 164+00.00 TO STA. 172+50.00
FROM STA. 180+25.00 TO STA. 194+00.00

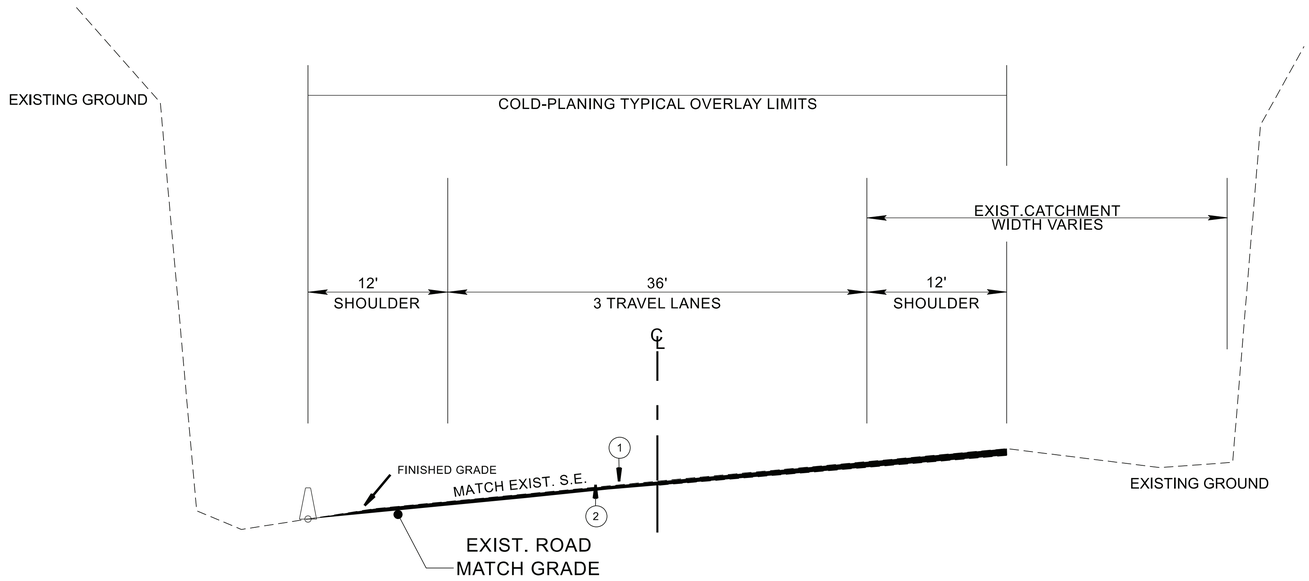
PROPOSED PAVEMENT SCHEDULE
(1) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y.
(2) ASPHALTIC CONCRETE SURFACE (HOT MIX) PG76-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-03.10 ACS MIX (PG76-22) GRADING "D"

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

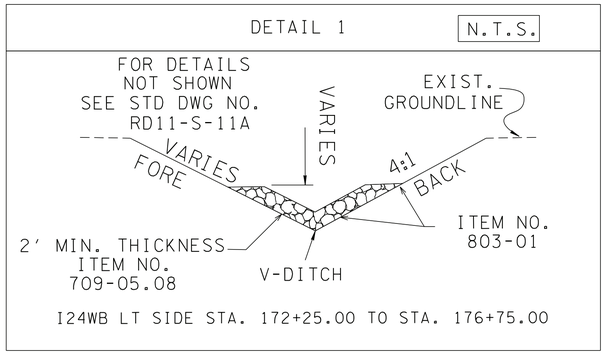
TYPICAL SECTIONS AND PAVEMENT SCHEDULE



OVERLAY SECTION
I-24 WESTBOUND
(BASED ON EXISTING GROUND CROSS SECTION AT STA. 174+00.00)
FROM STA. 172+50.00 TO STA. 180+25.00

PROPOSED PAVEMENT SCHEDULE

①	TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y.
②	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"



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2B1

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS
AND PAVEMENT
SCHEDULE

12/8/2025 5:37:05 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\02B-I24-TYPICAL SECTIONS.DGN

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

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

(4) ITEM NO. 801-01, 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.

DRAINAGE

(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).

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.

FINAL PAVEMENT MARKING

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

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

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

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(16) THE PAVEMENT MARKING ON THE LANE SHIFT FOR EDGE LINES AND LANE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.08, L.M.

(17) BEFORE OPENING THE LANE SHIFT 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.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2C

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	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.

(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 (TN-64) 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.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

$$$$DATE$$$$$$$$$$$TIME$$$$$$$
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\PAVEMENTEDGEANDDROPOFFNOTES.DGN

ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2E

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 PROJECT MANAGER SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

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

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

SUPPORT ACTIVITIES

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

STREAMS, WETLANDS & BUFFER ZONES

ENVIRONMENTAL

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

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

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

ECOLOGY

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

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

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

SCOPE OF WORK

(6) CONSTRUCT HAUL ROAD, REMOVE TREES 50 FT. BACK FROM SLOPE BREAK, REMOVE PORTION OF ROCK OVERHANG, INSTALL DRAPED/PINNED MESH, REMOVE SELECT ROCK FACE SLABS, REMOVE SELECT CAP ROCK AND SHALE, REMOVE LOOSE ROCK AND DEBRIS, CLEAN DITCH, COLD PLANE AND RESURFACE, INSTALL PAVEMENT MARKING.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	2F

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL				TERMINAL ANCHORS		REMARKS
		LT	RT	FROM	TO	THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 EACH	GUARDRAIL HEIGHT TRANSITION 705-02.10 EACH	W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	MICHIGAN END SHOE 706-10.80 (EACH)	TYPE 38 TERMINAL PAD 705-04.09 (EACH)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	
5B	I24	X		172+05.58	182+63.08		1.000			1	1	
5B	I24	X		172+37.05	172+50.00			13.54	1.00			
5B	I24	X		180+26.61	183+55.49	1.000		275.00		1	1	
TOTALS						1.000	1.000	288.54	1.00	2	2	

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	0	0	
SIDE ROADS	0	0	
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0	
INDEPENDENT DITCHES	1096	0	877
TEMPORARY CONSTRUCTION EXITS	7.15	0	6
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	
TOPSOIL (EMB.)	0		
TOPSOIL (EXC.)	0		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	1104	0	1104	1104	884

BALANCE SUMMARY

SHRINK = 20 % SWELL = 20 %

EXC.		EMB.
884	VS.	0
AVAILABLE	=	884
WASTE MATERIAL	=	1061

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.
0	0	0	0	0	0	0	0

IF EXISTING TOPSOIL IS NOT 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.
26160	N/A	N/A	N/A	484	N/A	484	N/A

PAVEMENT QUANTITIES

LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)		COLD PLANING BITUMINOUS PLANT MIX
	TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)	
		D	SY
	403-01	411-03.10	415-01.02
I-24 WESTBOUND, NEAR MM 37	6.0	900.0	12000.0

SEALED BY

JOSEPH L. DELORENZO REGISTERED ENGINEER LICENSED PROFESSIONAL ENGINEER NO. 0012640 STATE OF TENNESSEE 10-02-2025

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

12/10/2025 9:25:45 AM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\OMAR FILES\I-24 SLIDE REPAIR\DGN\02F-I24-TABULATED QUANTITIES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	3

UTILITY

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

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

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

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

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

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

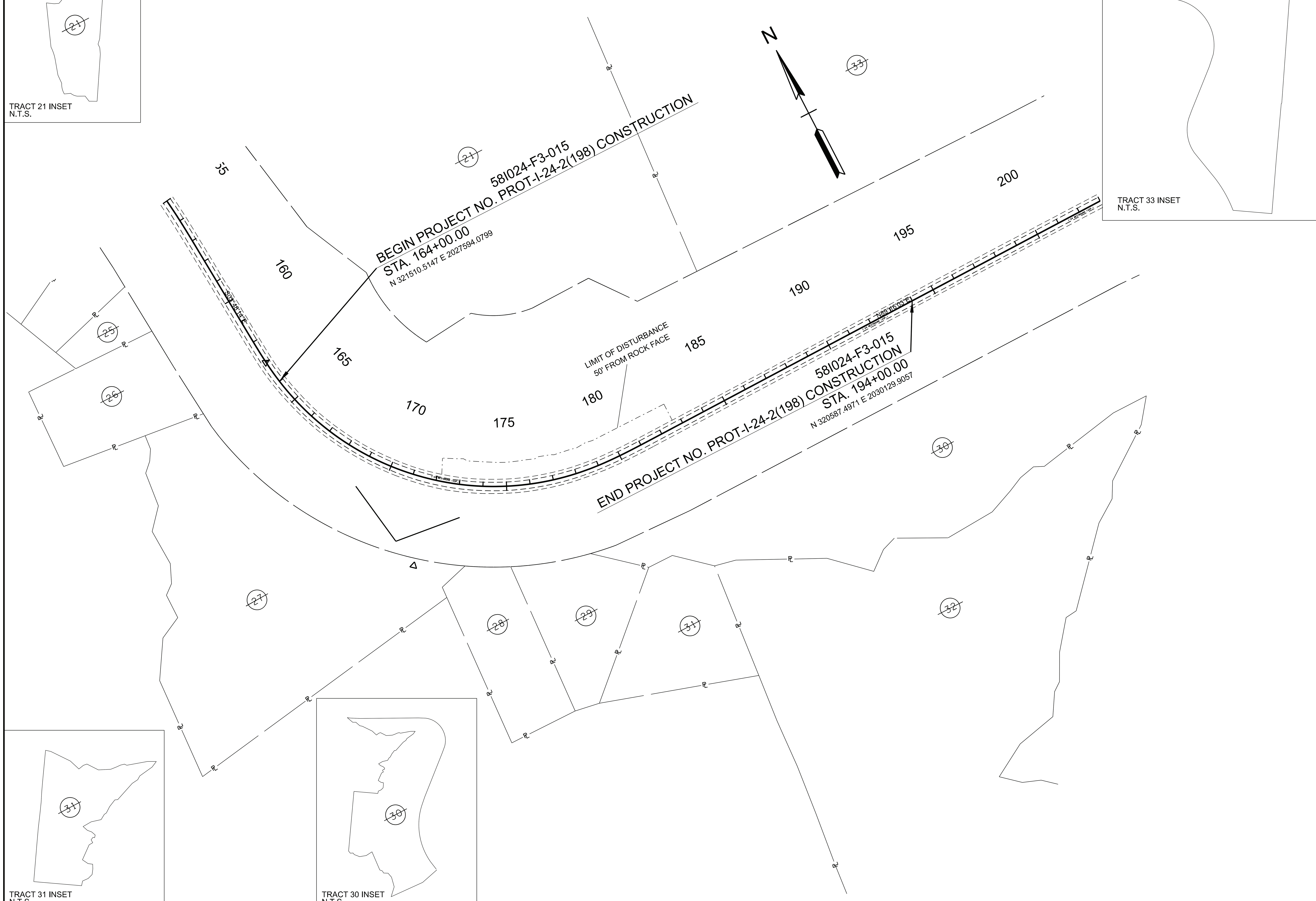
UTILITY
NOTES

12/9/2025 4:27:10 PM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\PAVEMENTEDGEANDDROPOFFNOTES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	3A

DISTURBED AREA

TOTAL DISTURBED AREA	1.733	(AC)
TOTAL PROJECT AREA	61.005	(AC)



N
BEGIN PROJECT NO. PROT-I-24-2(198) CONSTRUCTION
58I024-F3-015
STA. 164+00.00
N 321510.5147 E 2027594.0799
END PROJECT NO. PROT-I-24-2(198) CONSTRUCTION
58I024-F3-015
STA. 194+00.00
N 320587.4971 E 2030129.9057
LIMIT OF DISTURBANCE
50' FROM ROCK FACE
155
160
165
170
175
180
185
190
195
200
21
25
26
27
28
29
30
31
32
33
TRACT 21 INSET
N.T.S.
TRACT 33 INSET
N.T.S.
TRACT 31 INSET
N.T.S.
TRACT 30 INSET
N.T.S.

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
NO. 00125410
STATE OF TENNESSEE
10-02-2025
12-10-2025

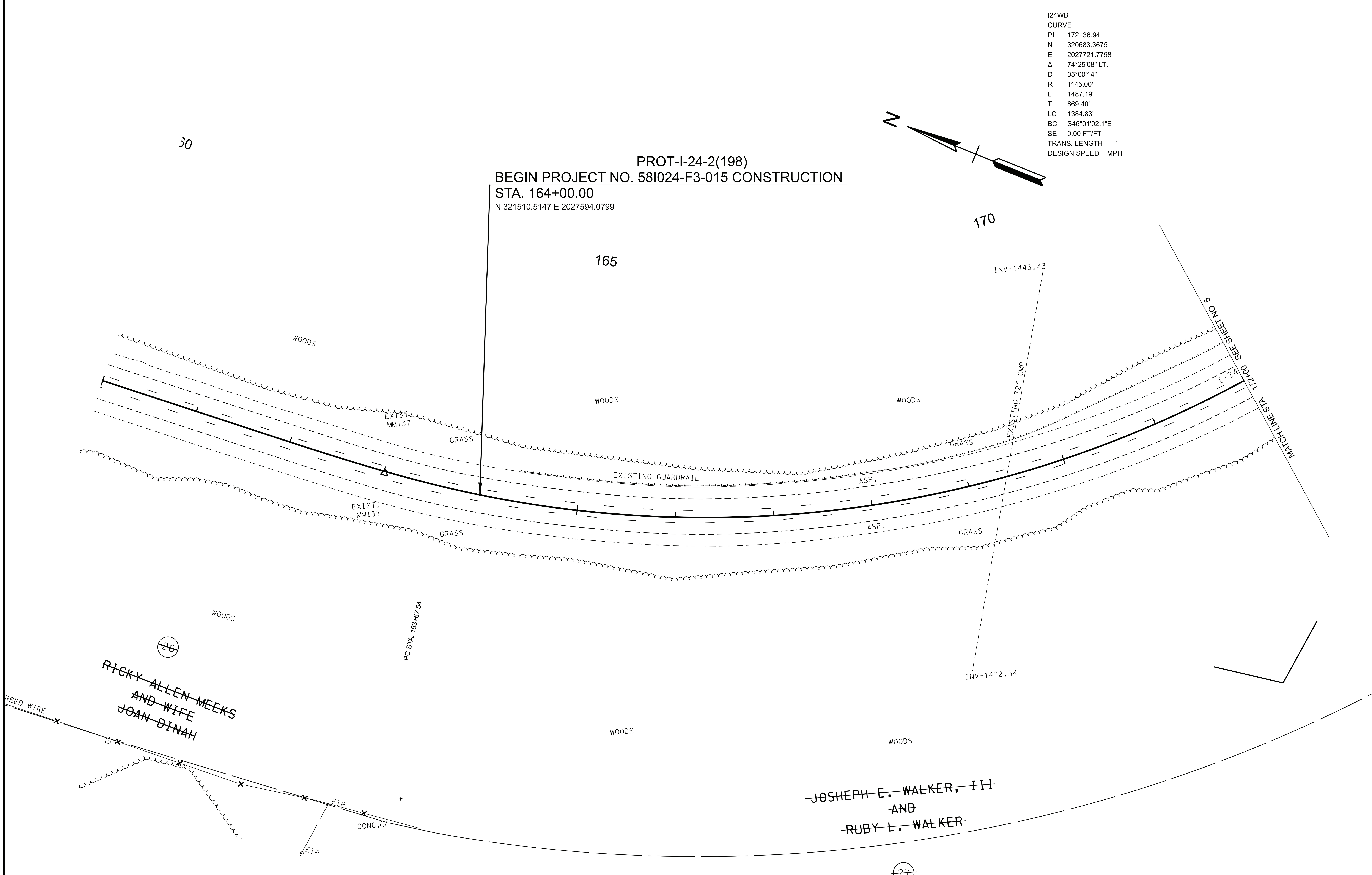
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 155+00.00 TO STA. 203+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	4



I24WB
CURVE
PI 172+36.94
N 320683.3675
E 2027721.7798
Δ 74°25'08" LT.
D 05°00'14"
R 1145.00'
L 1487.19'
T 869.40'
LC 1384.83'
BC S46°01'02.1"E
SE 0.00 FT/FT
TRANS. LENGTH '
DESIGN SPEED MPH
N
PROT-I-24-2(198)
BEGIN PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 164+00.00
N 321510.5147 E 2027594.0799
165
170
INV-1443.43
INV-1472.34
EXISTING 72" CMP
MATCHLINE STA. 172+00 SEE SHEET NO. 5
I-24
WOODS
GRASS
EXISTING GUARDRAIL
ASP.
EXIST. MM137
PC STA. 163+67.54
26
RICKY ALLEN MEEKS AND WIFE JOAN DINAH
JOSHEPH E. WALKER, III AND RUBY L. WALKER
27
EIP
CONC.

SEALED BY

10-02-2025 12-10-2025

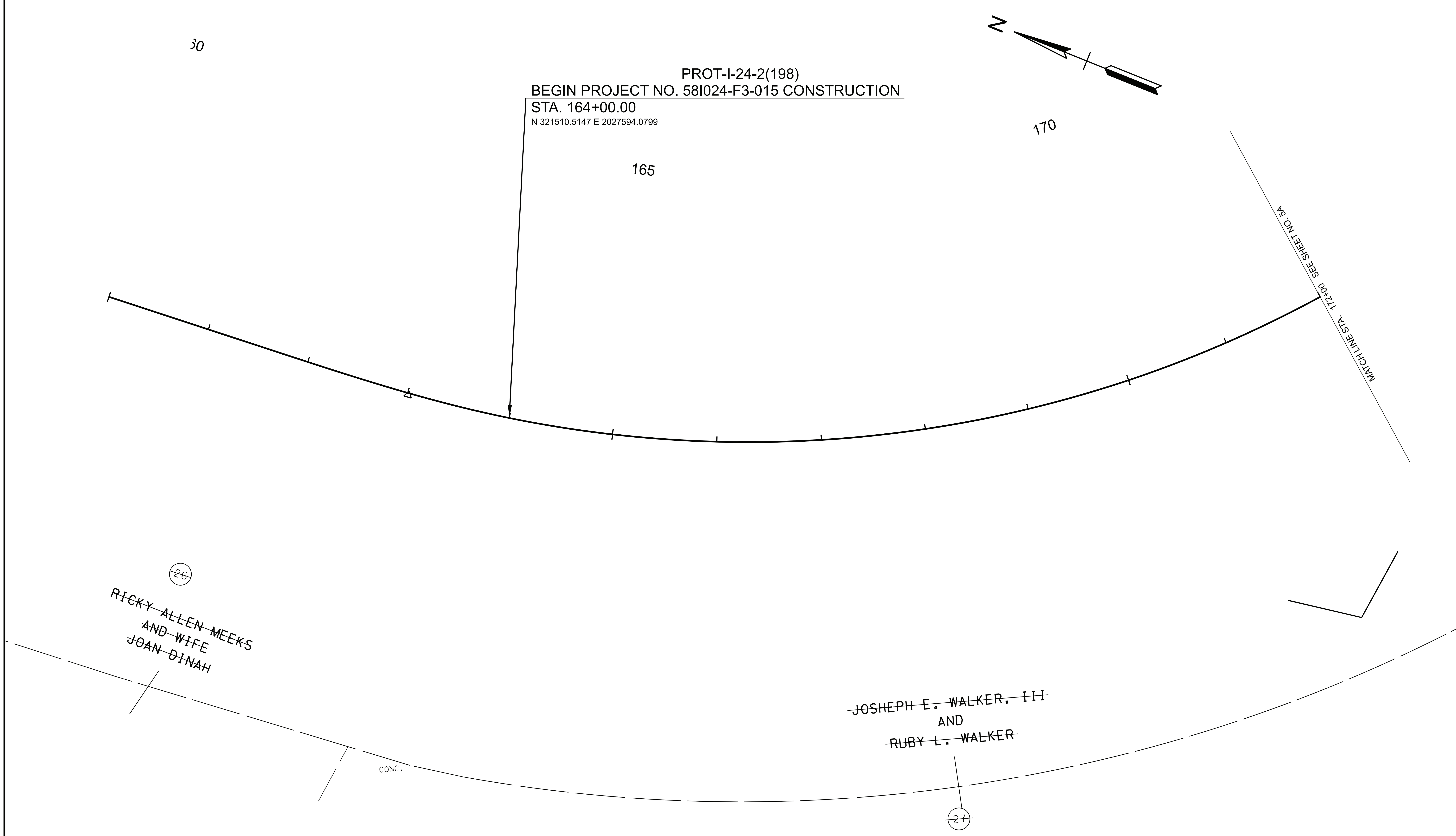
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	4A



12/9/2025 4:51:52 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-RIGHT-OF-WAY-DETAILS.DGN

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
10-02-2025
12-10-2025

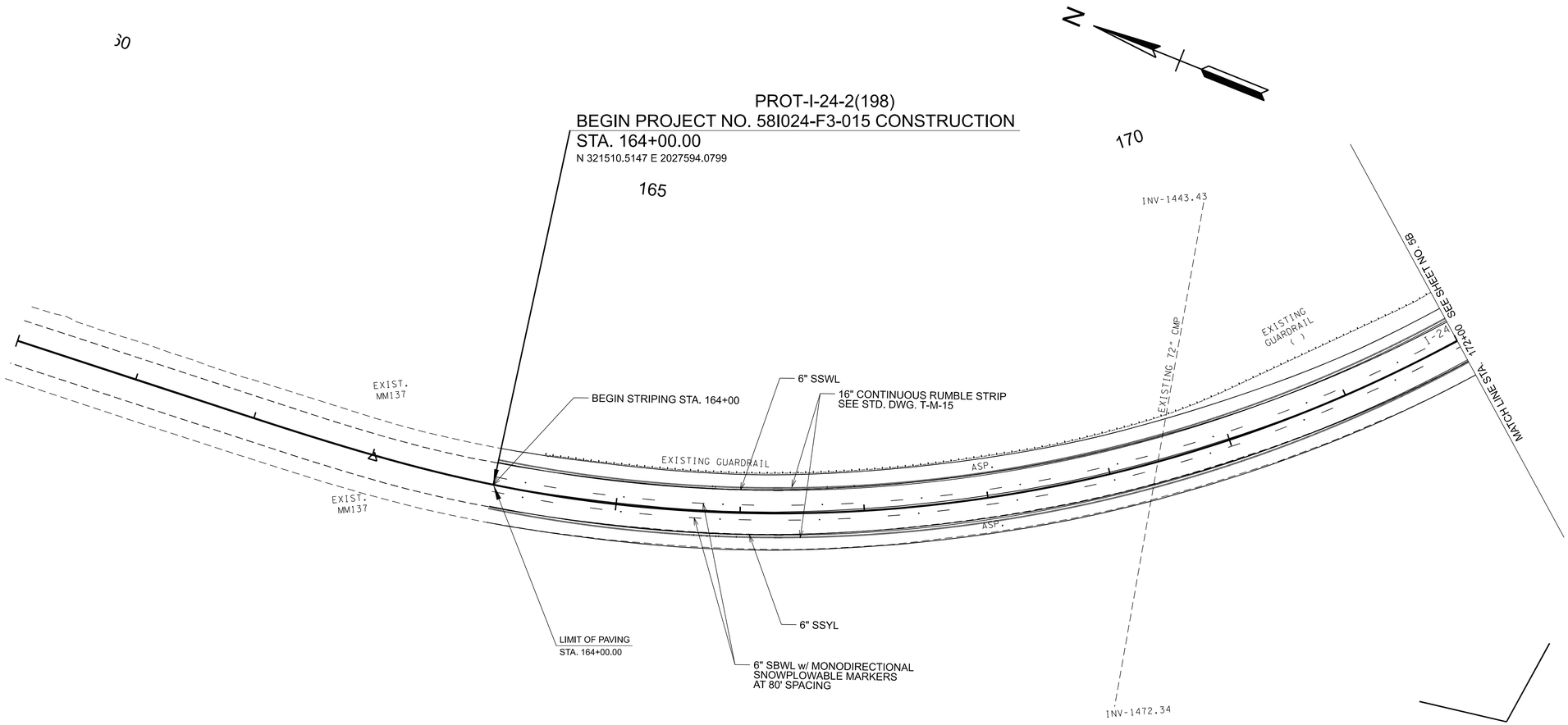
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	4B



SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
No. 109125-10
STATE OF TENNESSEE
10-02-2025
12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

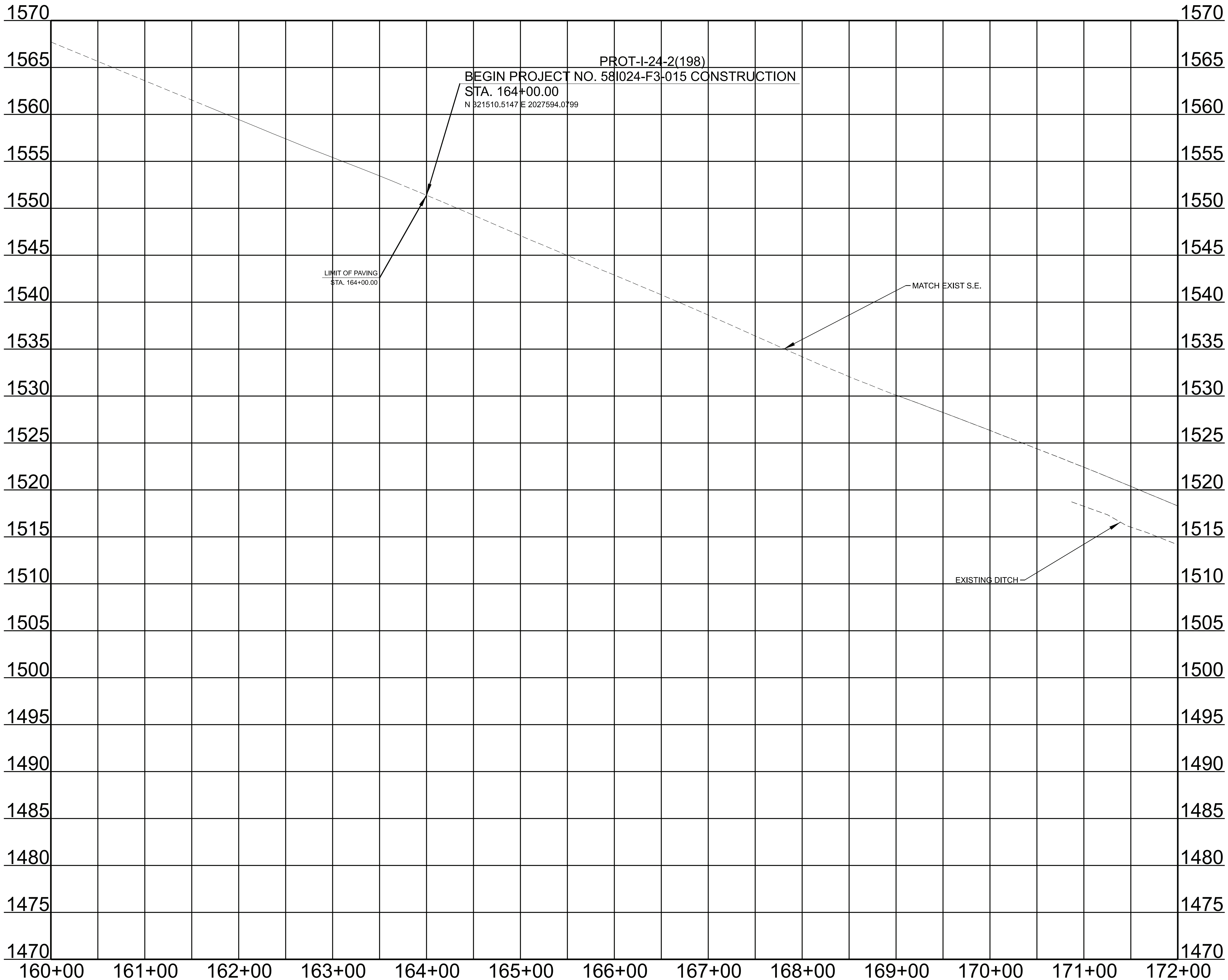
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

12/9/2025 3:42:32 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROPOSEDLAYOUT.DGN

12/9/2025 3:42:40 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROFILE.DGN



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	4C

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

STA. 164+00.00 TO STA. 172+00.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	5

N

EXISTING TERRAIN MODEL NORTH AND EAST OF THIS LINE
WAS SOURCED FROM 2015 3DEP STATEWIDE LIDAR DATA.

175

180

SEE SHEET NO. 4

MATCH LINE STA. 172+00

WESTBOUND (ASP.)

LIMIT OF DISTURBANCE
50' FROM ROCK FACE

WOODS

GRASS

OVERHANG

DEBRIS PILE

JERSEY BARRIER

ASP.

PT STA. 1+11.97

SEE SHEET NO. 6

MATCH LINE STA. 184+00

STA. 182+51.98 I24WB=
STA. 0+00.00 HAUL ROAD
N 320572.8181 E 2028981.9831

PT STA. 178+54.73

(28) CYNTHIA JANE WESTERFIELD

(29) ~~WILLIAM E. WEEMS AND BEVERLY H. WEEMS~~

(30) ~~CARDIN FOREST PRODUCTS, LLC.~~

PRESENT R.O.W.

BARBED WIRE

FENCE CONTINUES

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
No. 0012540
STATE OF TENNESSEE
10-02-2025
SEALED

10-02-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

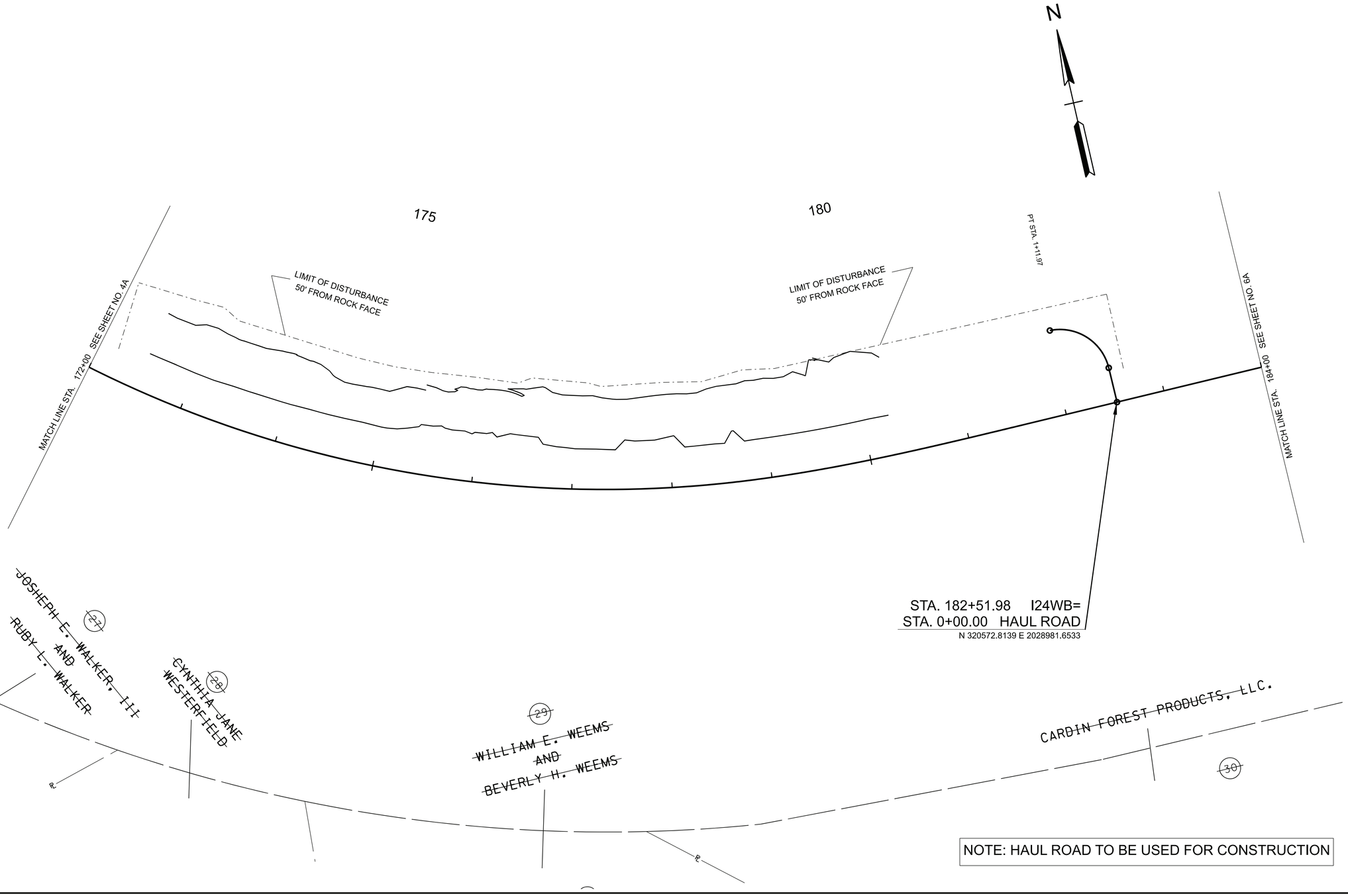
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

12/9/2025 4:49:14 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-PRELIMINARY LAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	5A



NOTE: HAUL ROAD TO BE USED FOR CONSTRUCTION

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
AGENT OF OWNER
10-02-2025
NO. 0012540
STATE OF TENNESSEE

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

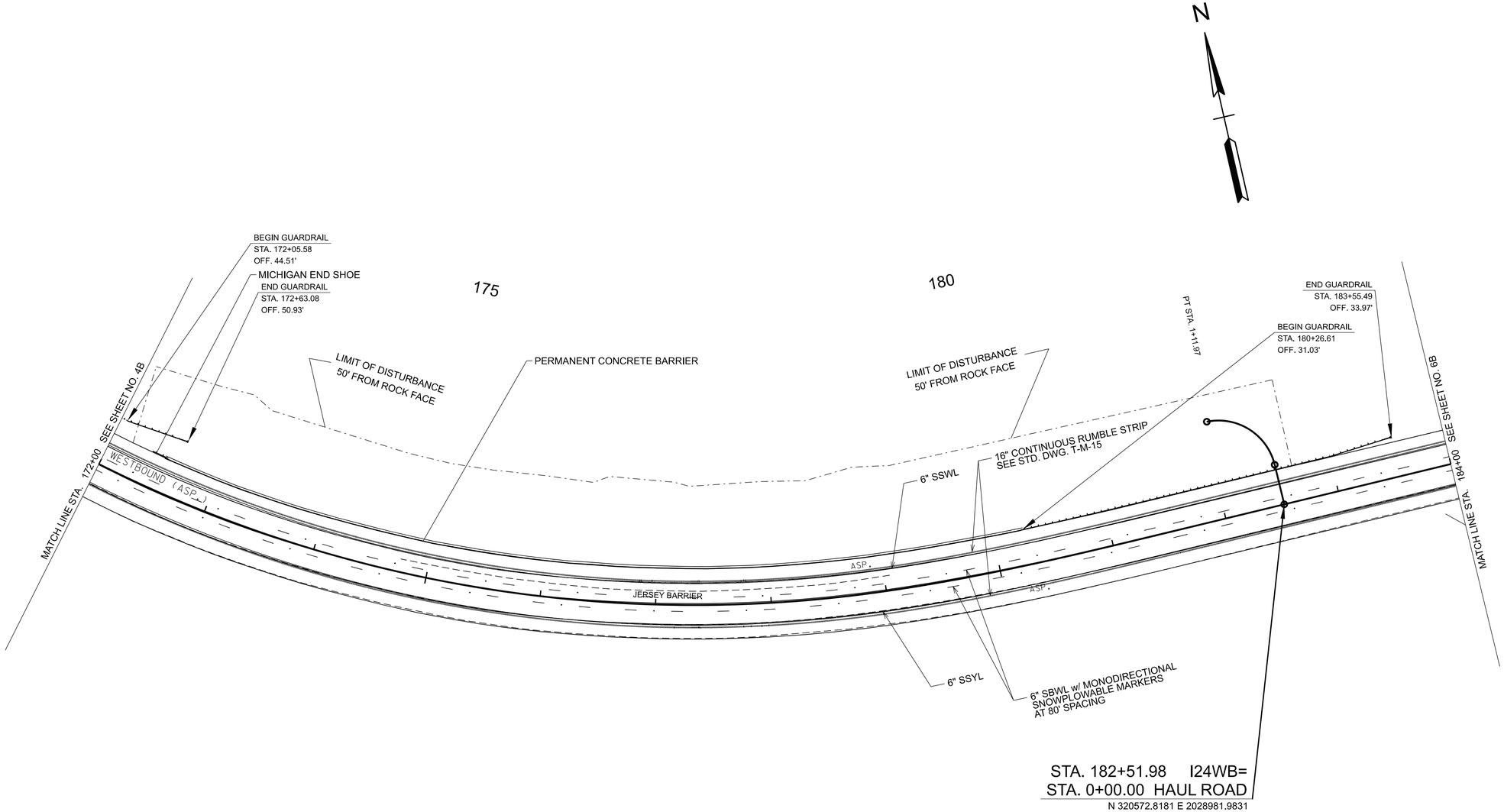
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

12/9/2025 4:51:53 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-RIGHT-OF-WAY-DETAILS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	5B



SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
10-02-2025
NUMBER 0012540
STATE OF TENNESSEE
12-10-2025

COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00009 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 03.

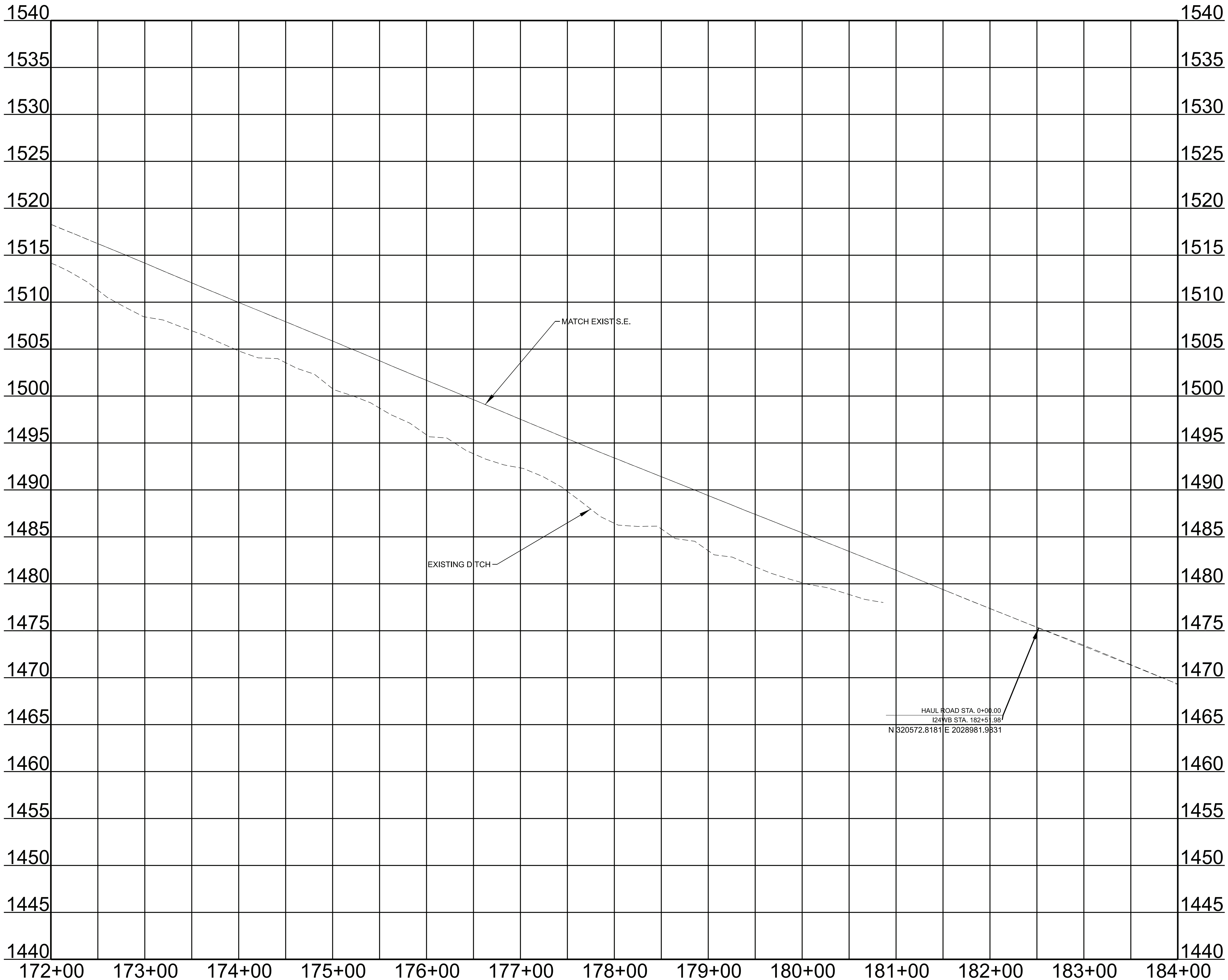
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

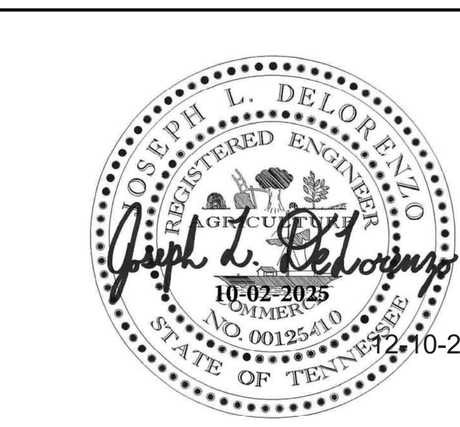
STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

12/9/2025 3:45:10 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROPOSEDLAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	5C



SEALED BY



12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

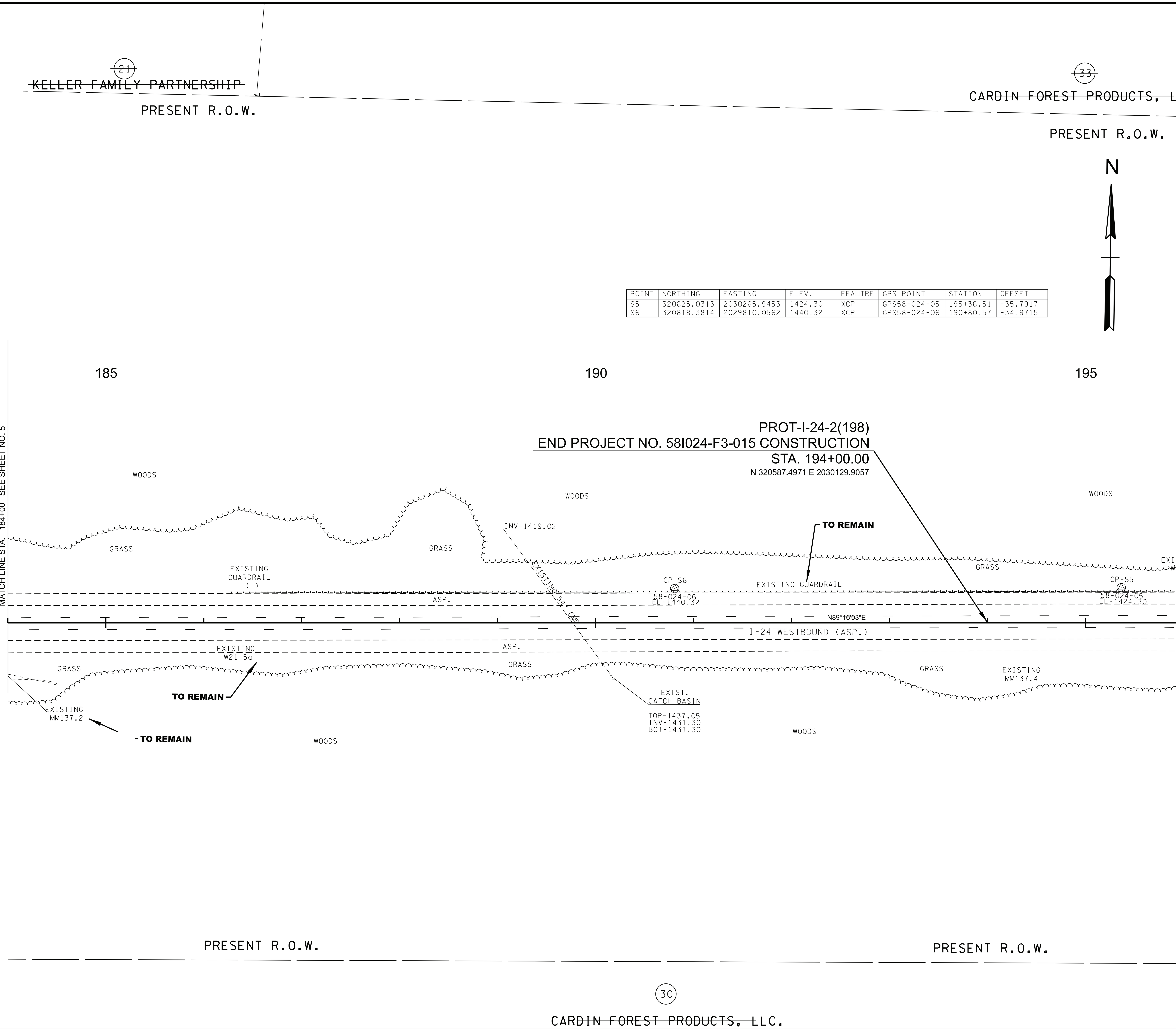
PROPOSED
PROFILE

STA. 172+00.00 TO STA. 184+00.00

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

12/9/2025 3:42:41 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROFILE.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	6



POINT	NORTHING	EASTING	ELEV.	FEAUTRE	GPS POINT	STATION	OFFSET
S5	320625.0313	2030265.9453	1424.30	XCP	GPS58-024-05	195+36.51	-35.7917
S6	320618.3814	2029810.0562	1440.32	XCP	GPS58-024-06	190+80.57	-34.9715

SEALED BY

JOSEPH L. DELORENZO, REGISTERED ENGINEER, NO. 00125770, STATE OF TENNESSEE — 10-02-2025

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

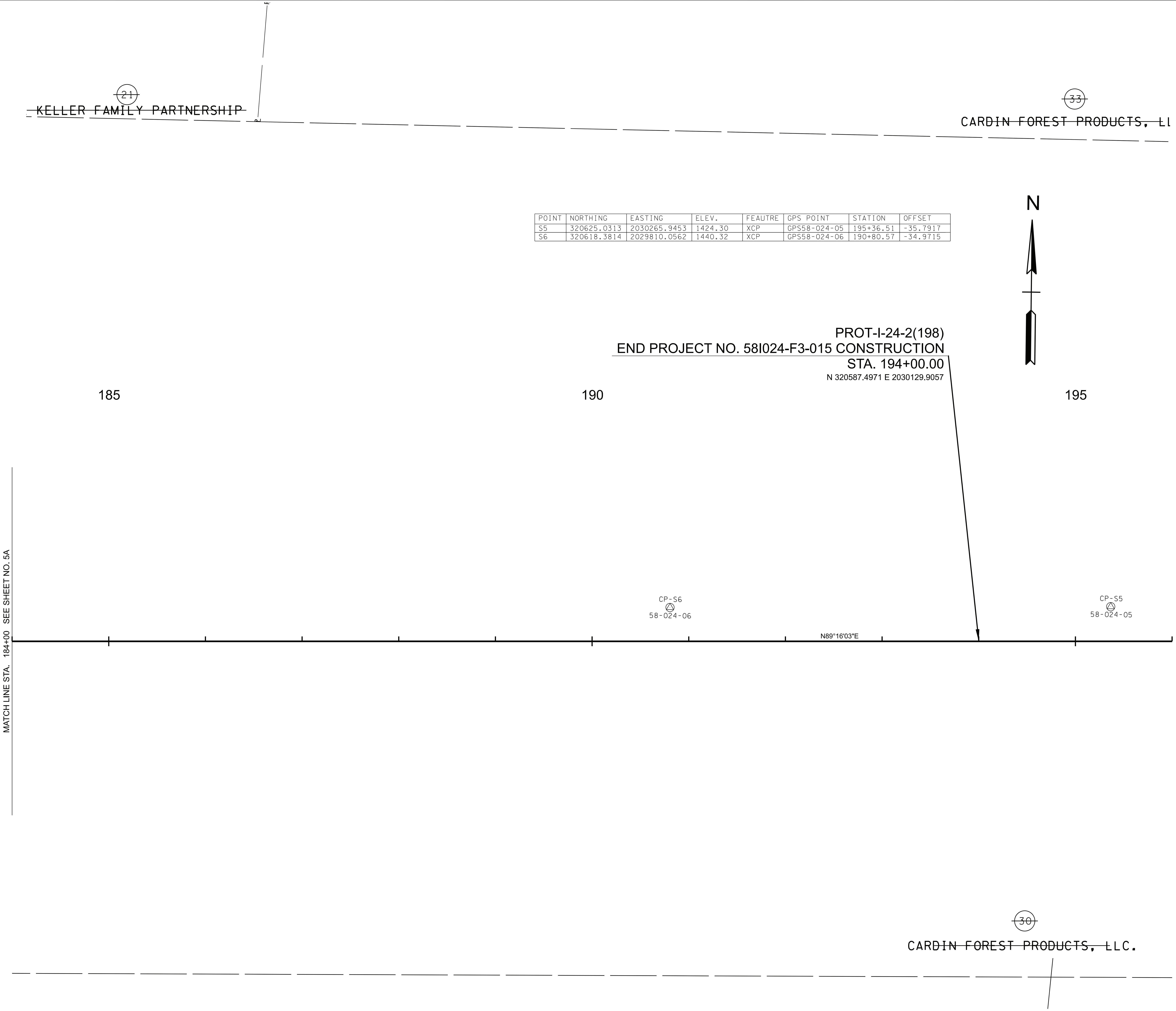
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 184+00.00 TO STA. 194+00.00
SCALE: 1" = 50'

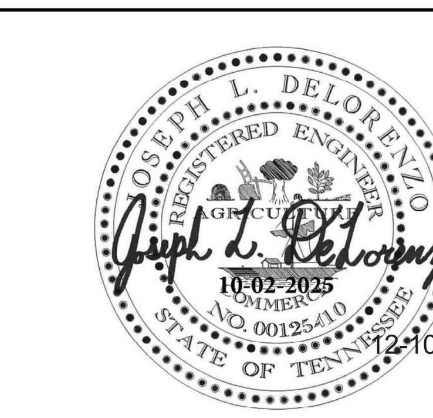
12/9/2025 4:49:15 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PRELIMINARYLAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	6A



POINT	NORTHING	EASTING	ELEV.	FEAUTRE	GPS POINT	STATION	OFFSET
S5	320625.0313	2030265.9453	1424.30	XCP	GPS58-024-05	195+36.51	-35.7917
S6	320618.3814	2029810.0562	1440.32	XCP	GPS58-024-06	190+80.57	-34.9715

SEALED BY



12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 184+00.00 TO STA. 194+00.00
SCALE: 1" = 50'

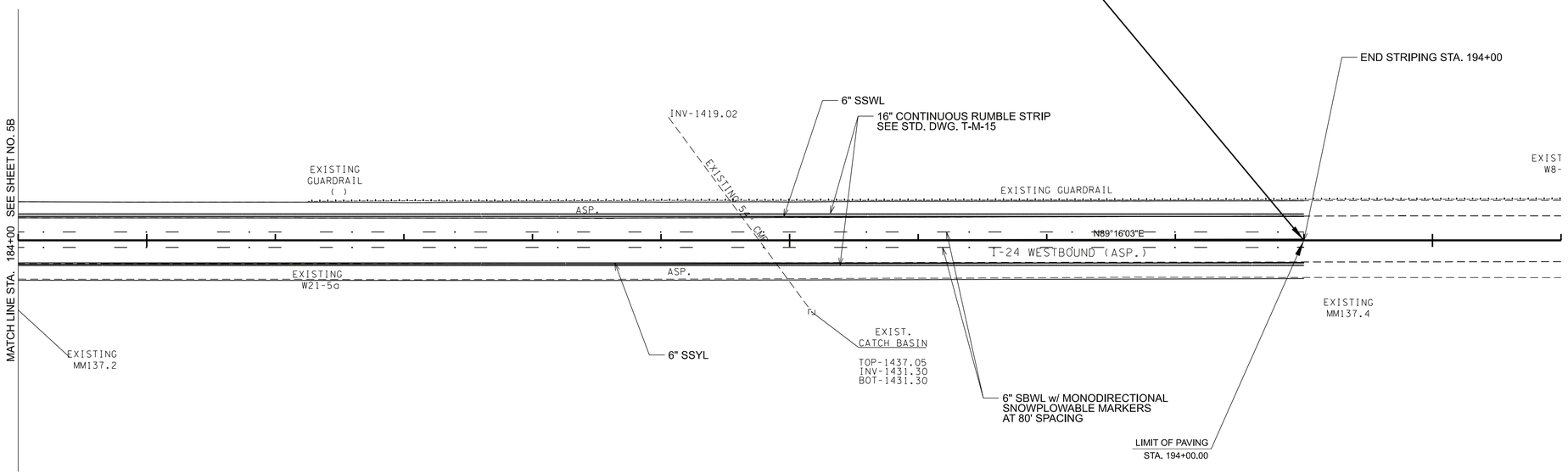
12/9/2025 4:51:55 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-RIGHT-OF-WAY-DETAILS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	6B

PROT-I-24-2(198)
END PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 194+00.00
N 320587.4971 E 2030129.9057

N

185 190 195



SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
GEOTECHNICAL
10-02-2025
No. 0012540
STATE OF TENNESSEE

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

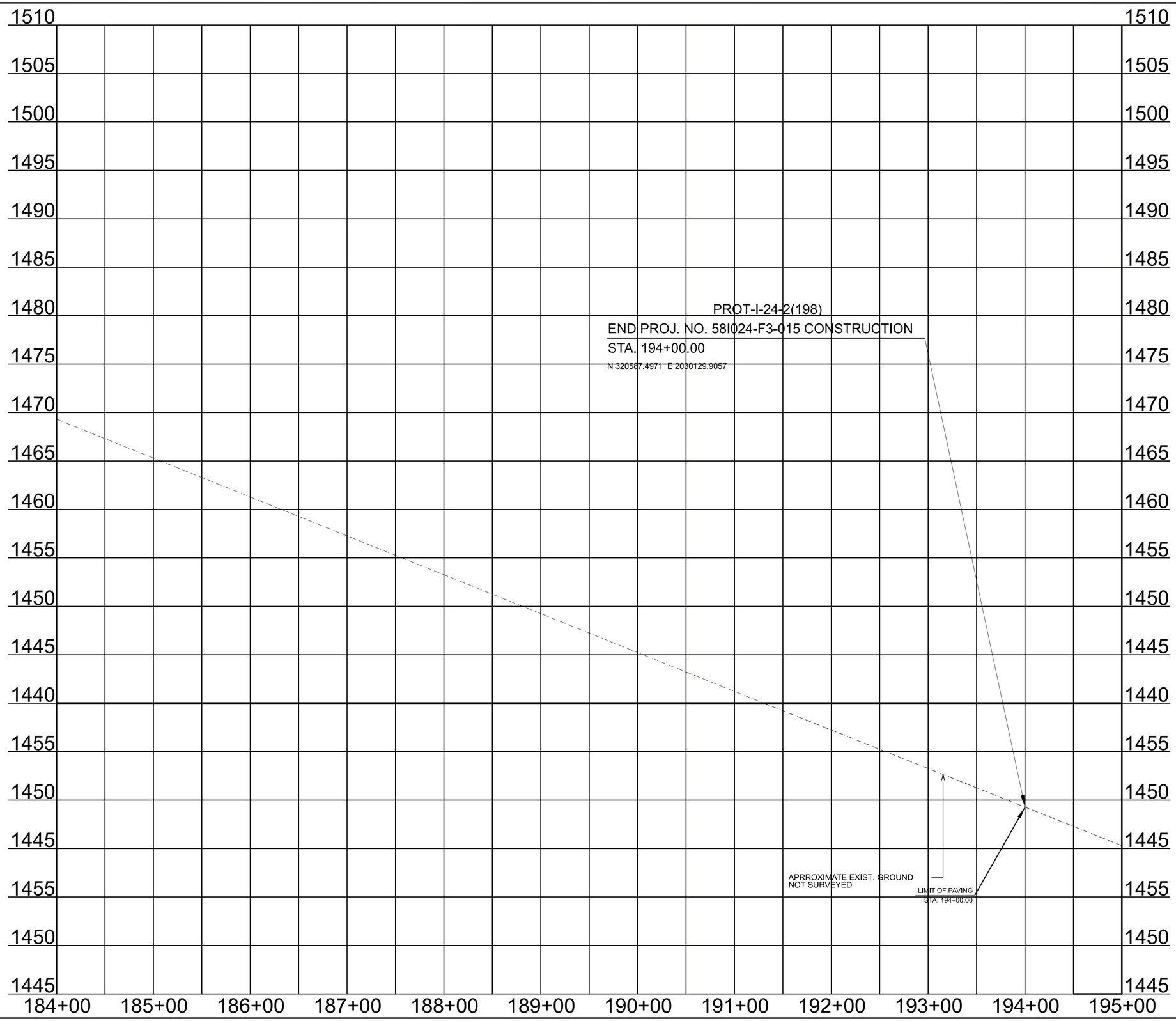
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 184+00.00 TO STA. 194+00.00
SCALE: 1" = 50'

12/9/2025 3:42:36 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROPOSEDLAYOUT.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	6C



SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
10-02-2025
SIGNED
ENG. 00125400
STATE OF TENNESSEE
10-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

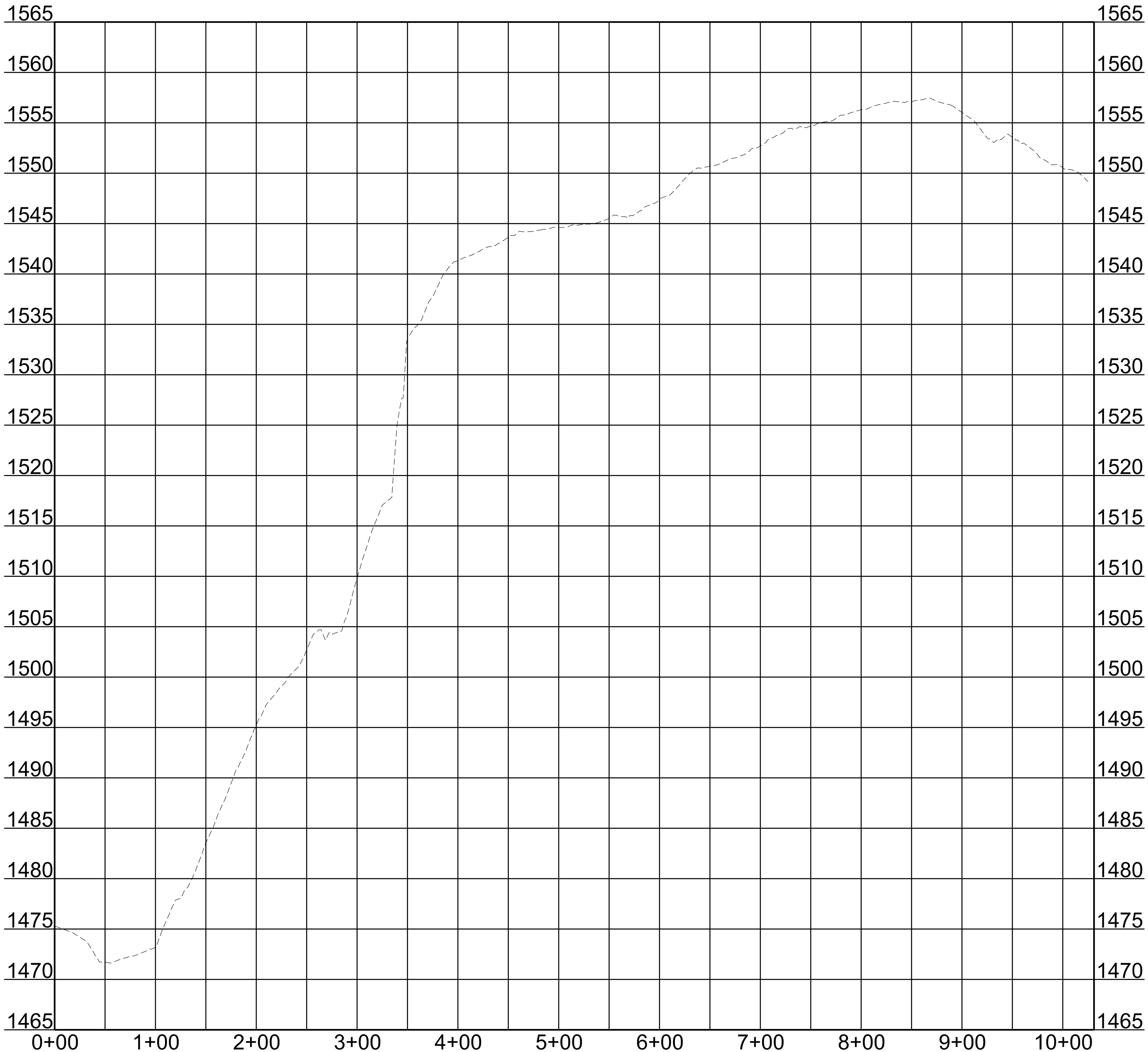
PROPOSED PROFILE

STA. 184+00.00 TO STA. 194+00.00

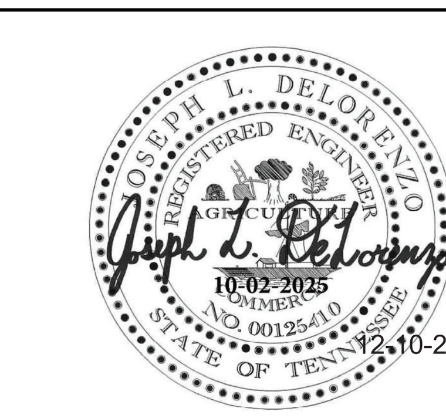
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

12/9/2025 3:42:42 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-PROFILE.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	7



SEALED BY



12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

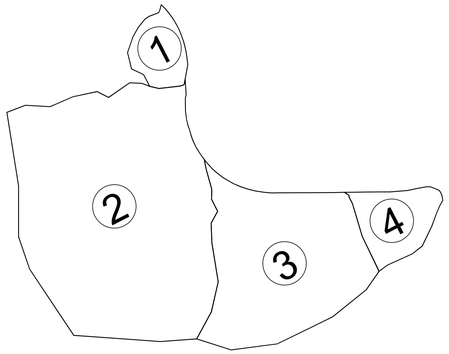
HAUL ROAD
PROFILE

STA. 0+00.00 TO STA. 10+31.01

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

12/10/2025 10:07:27 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-HAULROADPROFILE.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	8



DRAINAGE AREA INSET
N.T.S.

DRAINAGE DATA FOR PIPE
STATION 158+89.06

DIRECTION OF FLOW: LEFT

DRAINAGE AREA 14.81 AC. , ( ) FLAT; ( ) ROLLING; ( ) HILLY; (X) MTNS.

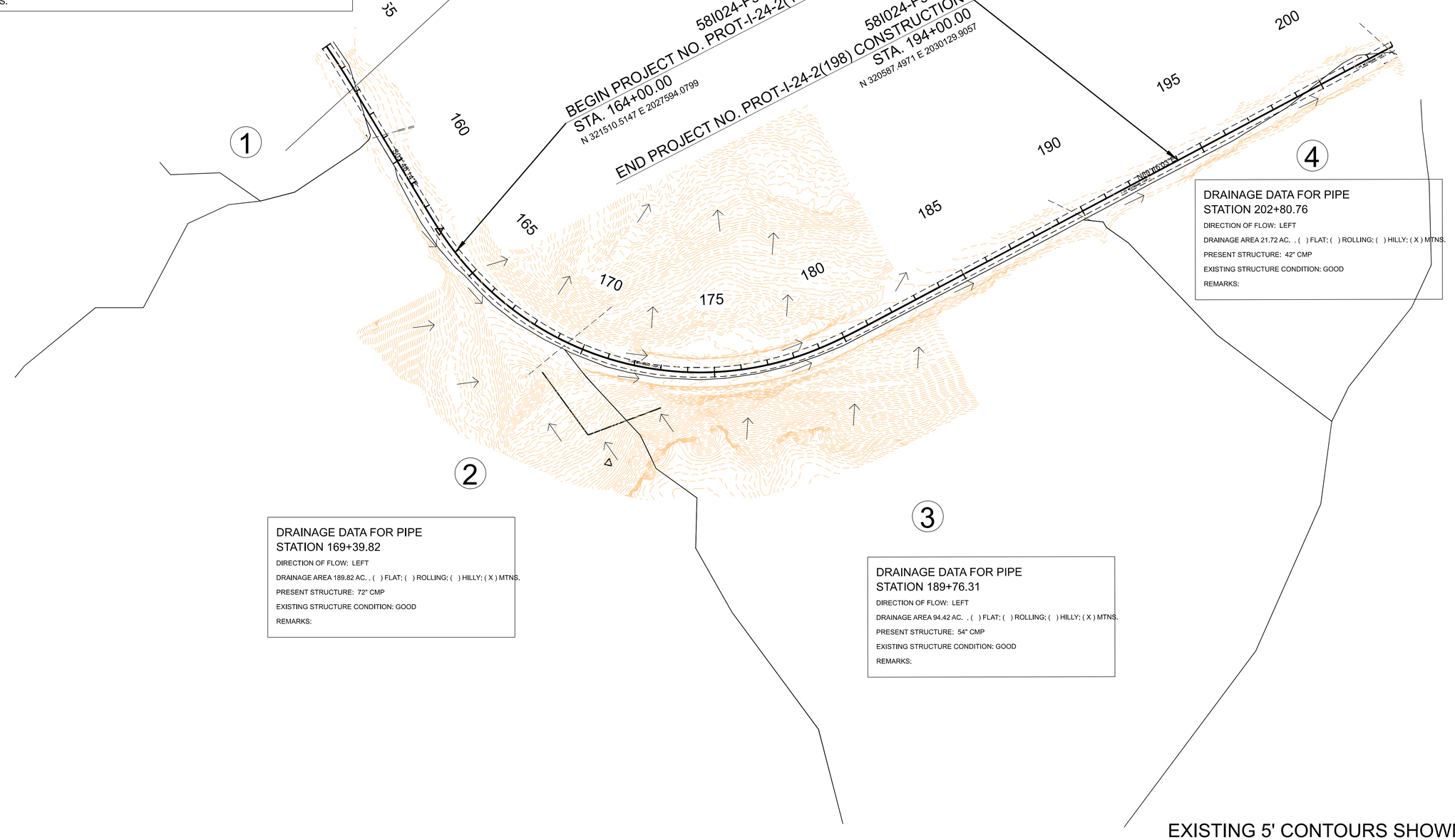
PRESENT STRUCTURE: 30" RCP

EXISTING STRUCTURE CONDITION: GOOD

REMARKS:

BEGIN PROJECT NO. PROT-I-24-2(198) CONSTRUCTION
58I024-F3-015
STA. 164+00.00
N 321510.5147 E 2027594.0799

END PROJECT NO. PROT-I-24-2(198) CONSTRUCTION
58I024-F3-015
STA. 194+00.00
N 320587.4971 E 2030129.9057



DRAINAGE DATA FOR PIPE
STATION 202+80.76

DIRECTION OF FLOW: LEFT

DRAINAGE AREA 21.72 AC. , ( ) FLAT; ( ) ROLLING; ( ) HILLY; (X) MTNS.

PRESENT STRUCTURE: 42" CMP

EXISTING STRUCTURE CONDITION: GOOD

REMARKS:

DRAINAGE DATA FOR PIPE
STATION 169+39.82

DIRECTION OF FLOW: LEFT

DRAINAGE AREA 189.82 AC. , ( ) FLAT; ( ) ROLLING; ( ) HILLY; (X) MTNS.

PRESENT STRUCTURE: 72" CMP

EXISTING STRUCTURE CONDITION: GOOD

REMARKS:

DRAINAGE DATA FOR PIPE
STATION 189+76.31

DIRECTION OF FLOW: LEFT

DRAINAGE AREA 94.42 AC. , ( ) FLAT; ( ) ROLLING; ( ) HILLY; (X) MTNS.

PRESENT STRUCTURE: 54" CMP

EXISTING STRUCTURE CONDITION: GOOD

REMARKS;

EXISTING 5' CONTOURS SHOWN

SEALED BY

JOSEPH L. DEFORTUNZO
REGISTERED ENGINEER
LICENSED
10-02-2025
NO. 0012540
STATE OF TENNESSEE

10-02-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 155+00.00 TO STA. 203+00.00
SCALE: 1" = 200'

C:\ProgramData\Bentley\OpenRoads Designer 2023.00\Configuration\WorkSpaces\TDOT_Standards\WorkSets\I-24 Slide Repair\dgn\Drainage Map.dgn

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

SEDIMENT CONTROL

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.

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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	8

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
10-02-2025
NUMBER 0019540
STATE OF TENNESSEE
12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLANS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	10

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58I024-F3-015
(1)	201-01	CLEARING AND GRUBBING	LS	1
(1) (2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	8
(1)	209-03.20	FILTER SOCK (8 INCH)	L.F.	1000
(1)	209-05	SEDIMENT REMOVAL	C.Y.	21
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	525
(1)	209-08.07	ROCK CHECK DAM PER	EACH	4
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1
(1) (2)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	50
(1) (2)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	86
(1)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	634

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 TEMPORARY CONSTRUCTION EXIT.

NOTE: ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANITITES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✳✳ TUBE ✳✳ TUBE	SEDIMENT TUBE	EC-STR-37 EC-STR-4 & 4A
✳ SFB✳ SFB✳	SILT FENCE WITH WIRE BACKING	EC-STR-3C EC-STR-4 & 4A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

EPSC STAGE 1 NOTES:

1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB.

EPSC STAGE 2 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES.
2. CONTOUR AREAS TO DRAIN AS DIRECTED BY TDOT ENGINEER.

EPSC STAGE 3 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES.
2. ACHIEVE FINAL STABILIZATION.
3. REMOVE TEMPORARY EPSC MEASURES.

SEALED BY

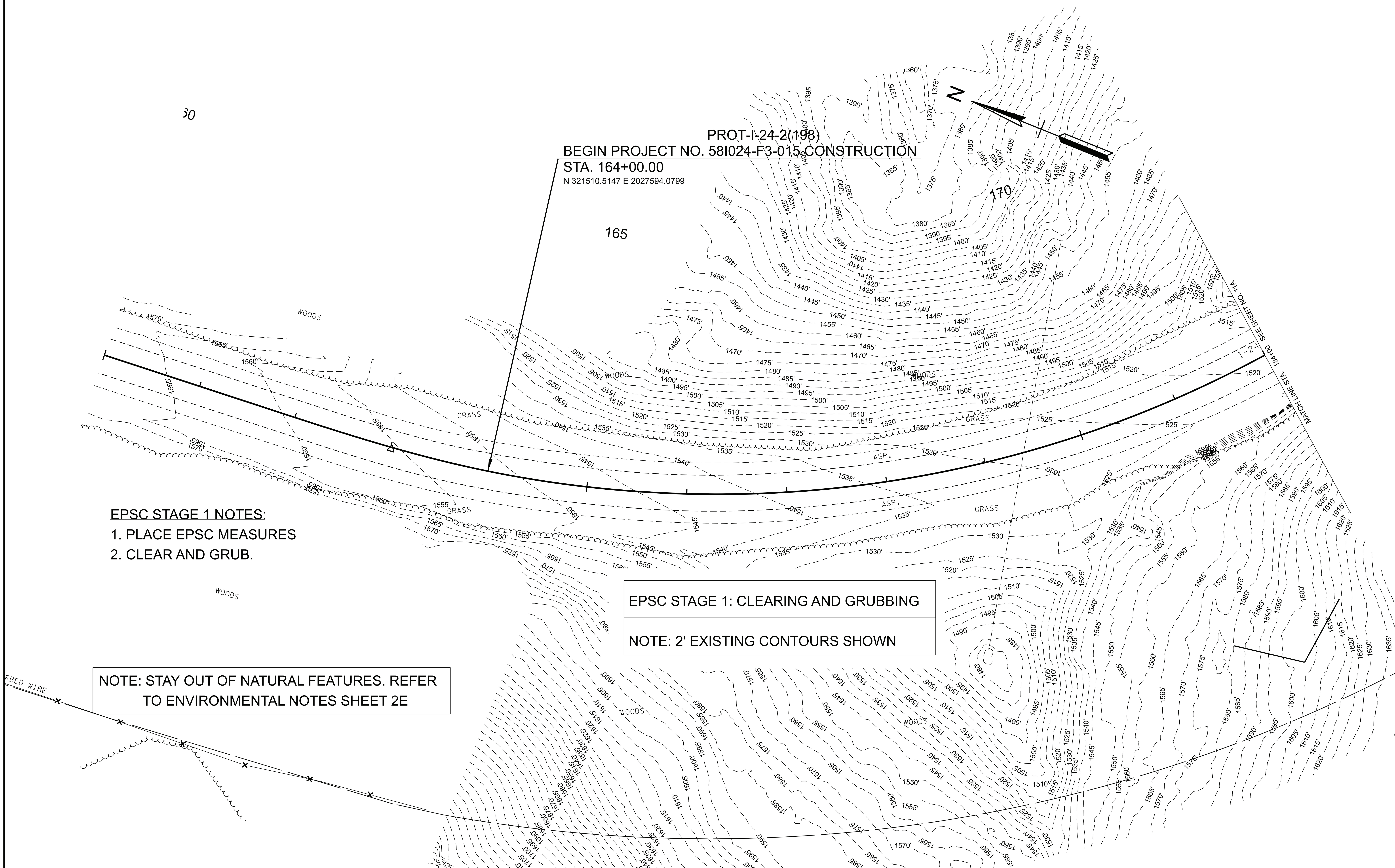
JOSEPH L. DELORENZO — REGISTERED ENGINEER — STATE OF TENNESSEE — 10-02-2025 — 12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

12/9/2025 4:16:58 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETSII-24 SLIDE REPAIR\DGN\09-I24-TABULATEDQUANTITIES EPSC.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	11



EPSC STAGE 1 NOTES:

1. PLACE EPSC MEASURES
2. CLEAR AND GRUB.

EPSC STAGE 1: CLEARING AND GRUBBING

NOTE: 2' EXISTING CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO, REGISTERED ENGINEER, No. 00125610, STATE OF TENNESSEE, 10-02-2025

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

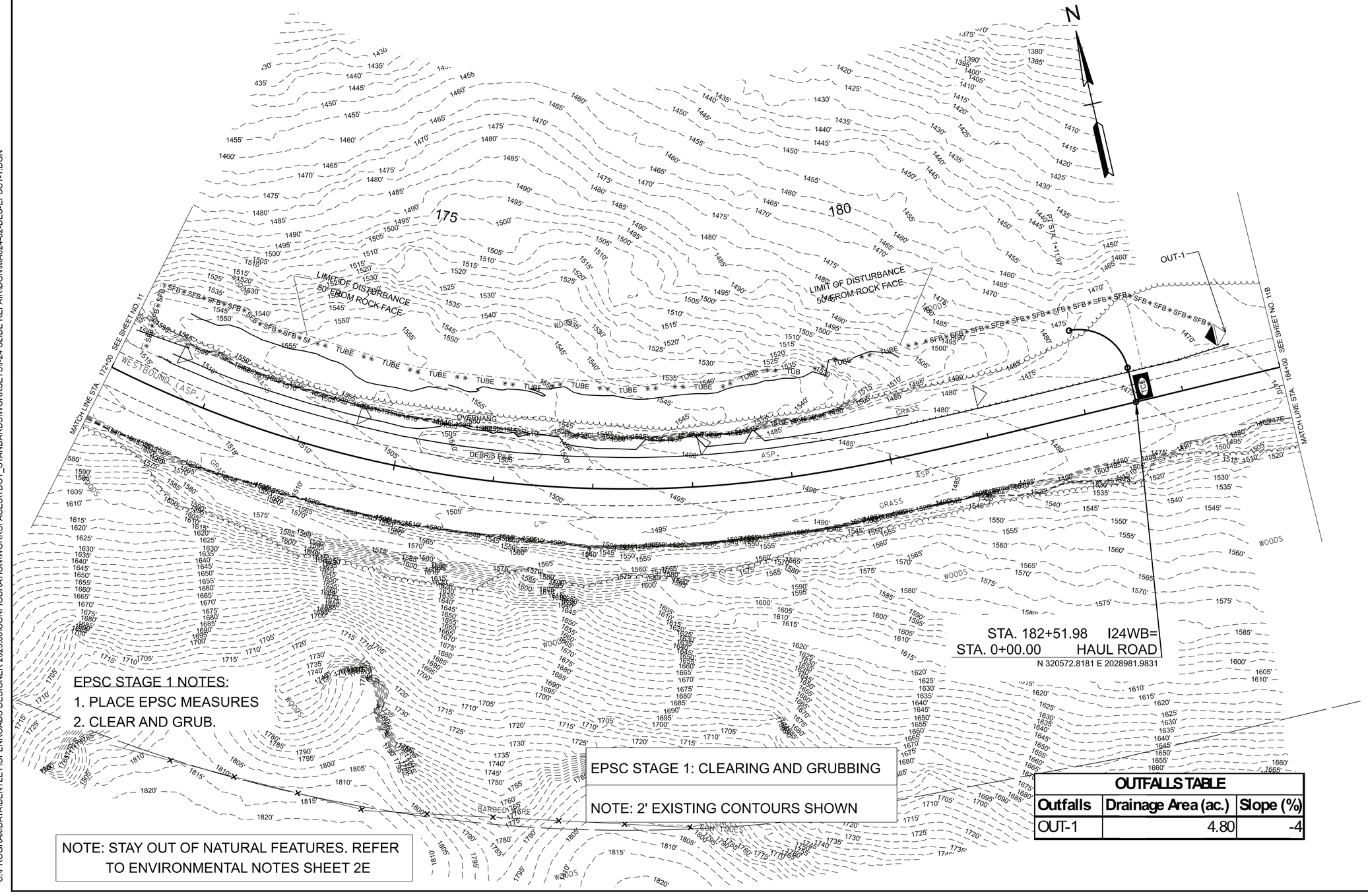
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 164+00.00 TO STA. 172+00.00

SCALE: 1" = 50'

12/9/2025 4:17:15 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC1-1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	11A



EPSC STAGE 1 NOTES:

1. PLACE EPSC MEASURES
2. CLEAR AND GRUB.

EPSC STAGE 1: CLEARING AND GRUBBING

NOTE: 2' EXISTING CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

OUTFALLS TABLE

Outfalls	Drainage Area (ac.)	Slope (%)
OUT-1	4.80	-4

SEALED BY

JOSEPH L. DELOLLO
REGISTERED ENGINEER
10-02-2025
NO. 0012540
STATE OF TENNESSEE

12-10-2025

COORDINATES ARE NAD 83( ), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

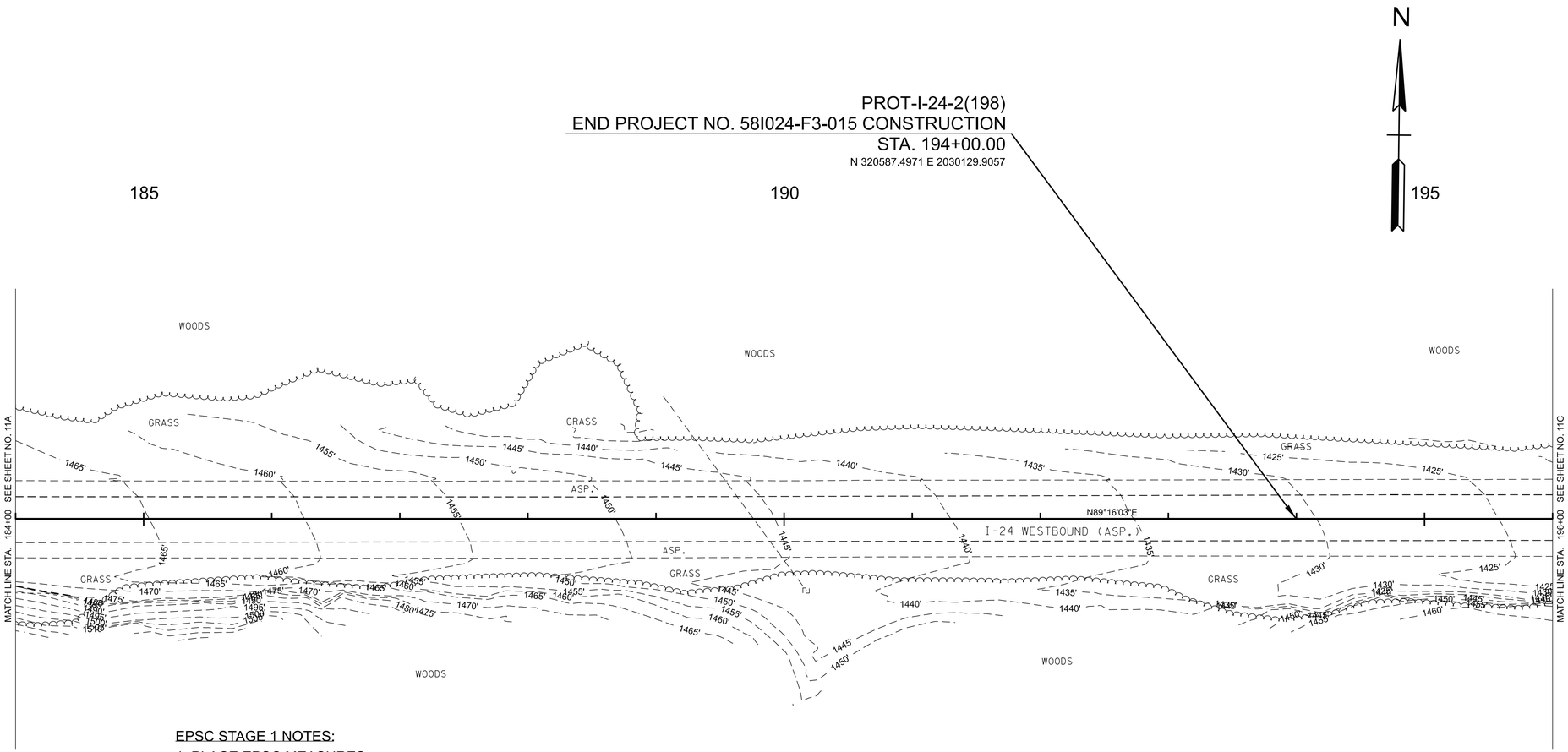
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 172+00.00 TO STA. 184+00.00

SCALE: 1" = 50'

12/9/2025 4:17:19 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC1-1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	11B



EPSC STAGE 1 NOTES:

1. PLACE EPSC MEASURES
2. CLEAR AND GRUB.

EPSC STAGE 1: CLEARING AND GRUBBING

NOTE: 2' EXISTING CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO — REGISTERED ENGINEER — STATE OF TENNESSEE
10-02-2025
12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

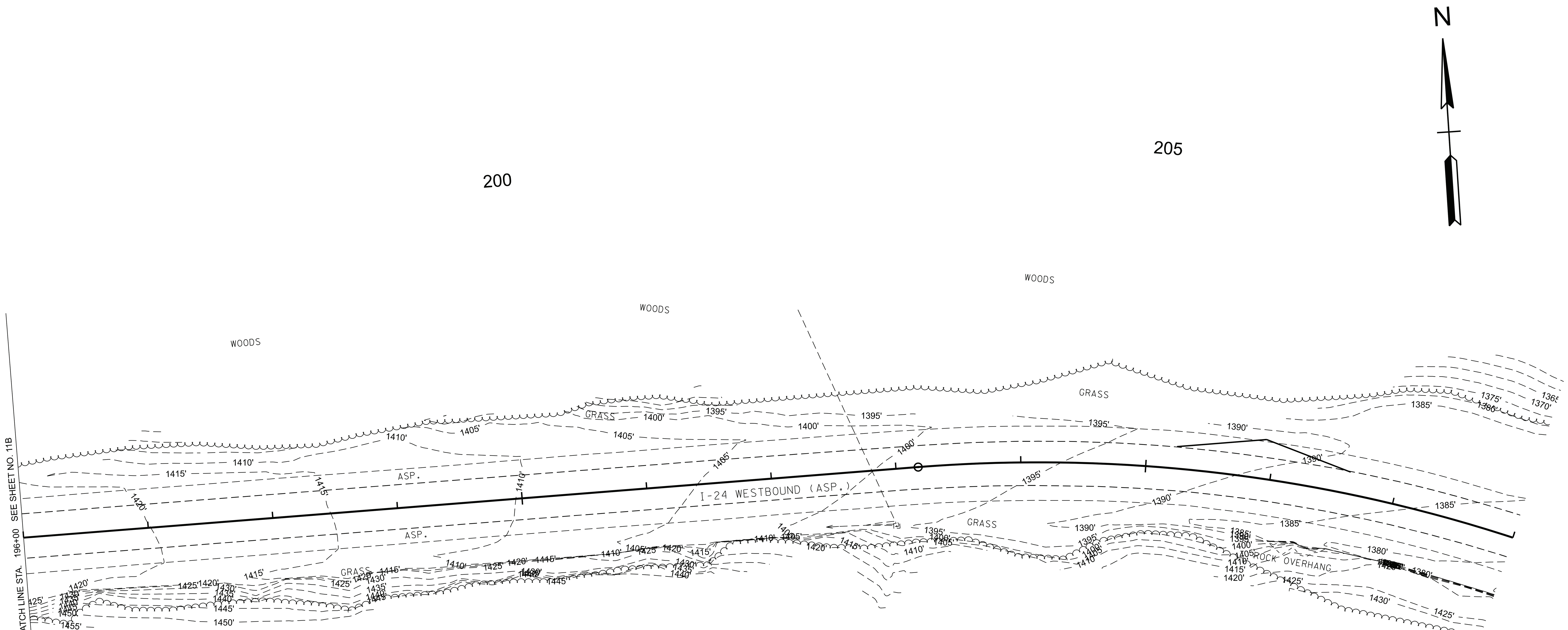
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 184+00.00 TO STA. 196+00.00
SCALE: 1" = 50'

12/9/2025 4:17:22 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC1-1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	11C



EPSC STAGE 1 NOTES:

1. PLACE EPSC MEASURES
2. CLEAR AND GRUB.

EPSC STAGE 1: CLEARING AND GRUBBING
NOTE: 2' EXISTING CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO REGISTERED ENGINEER STATE OF TENNESSEE NO. 00125418 10-02-2025

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

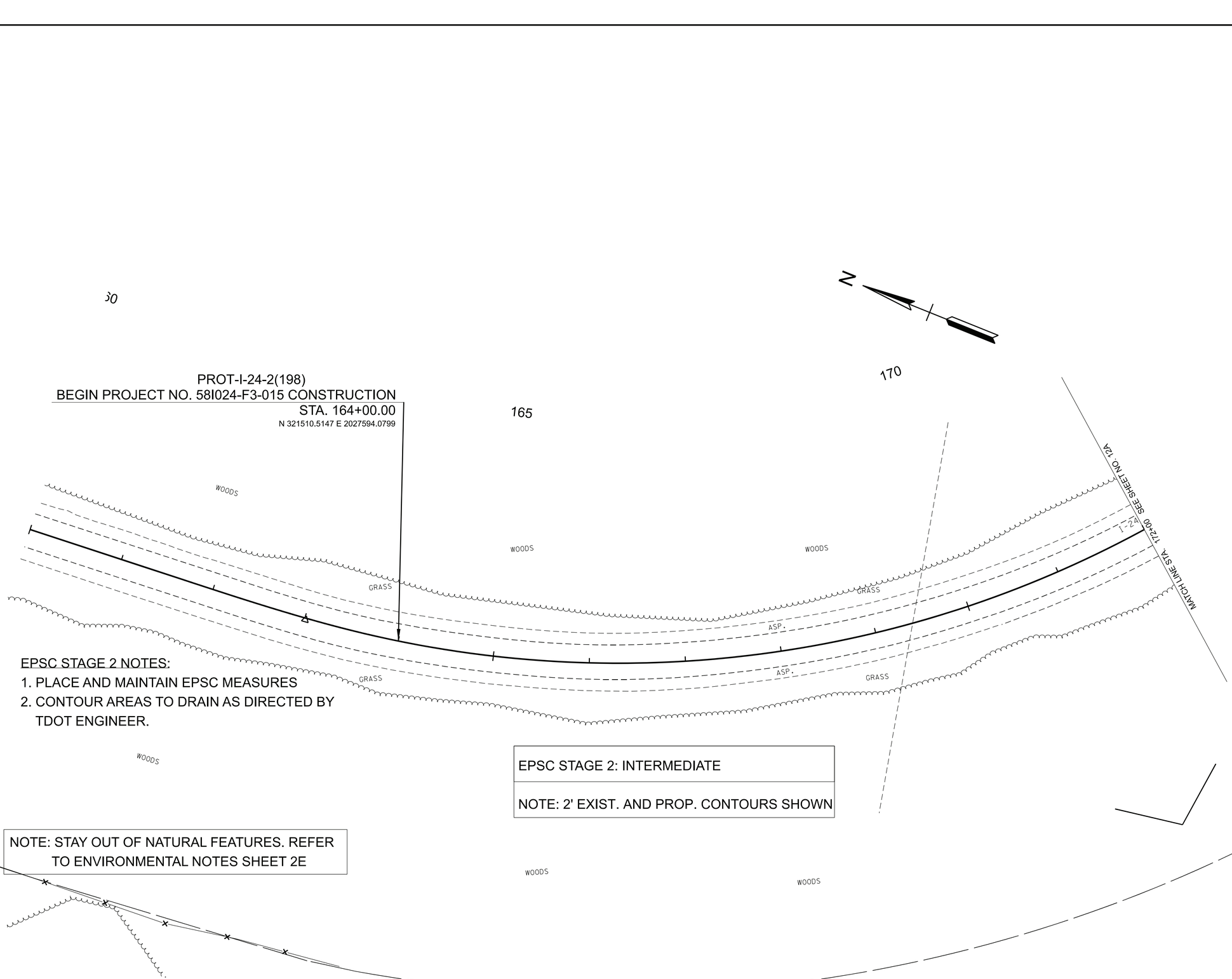
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 196+00.00 TO STA. 208+00.00
SCALE: 1" = 50'

12/9/2025 4:17:23 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC1-1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	12

PROT-I-24-2(198)
BEGIN PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 164+00.00
N 321510.5147 E 2027594.0799



EPSC STAGE 2 NOTES:
1. PLACE AND MAINTAIN EPSC MEASURES
2. CONTOUR AREAS TO DRAIN AS DIRECTED BY TDOT ENGINEER.

EPSC STAGE 2: INTERMEDIATE

NOTE: 2' EXIST. AND PROP. CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO — REGISTERED ENGINEER — AGENCY NO. 00125 — STATE OF TENNESSEE
Joseph L. DeLorenzo
12-10-2025

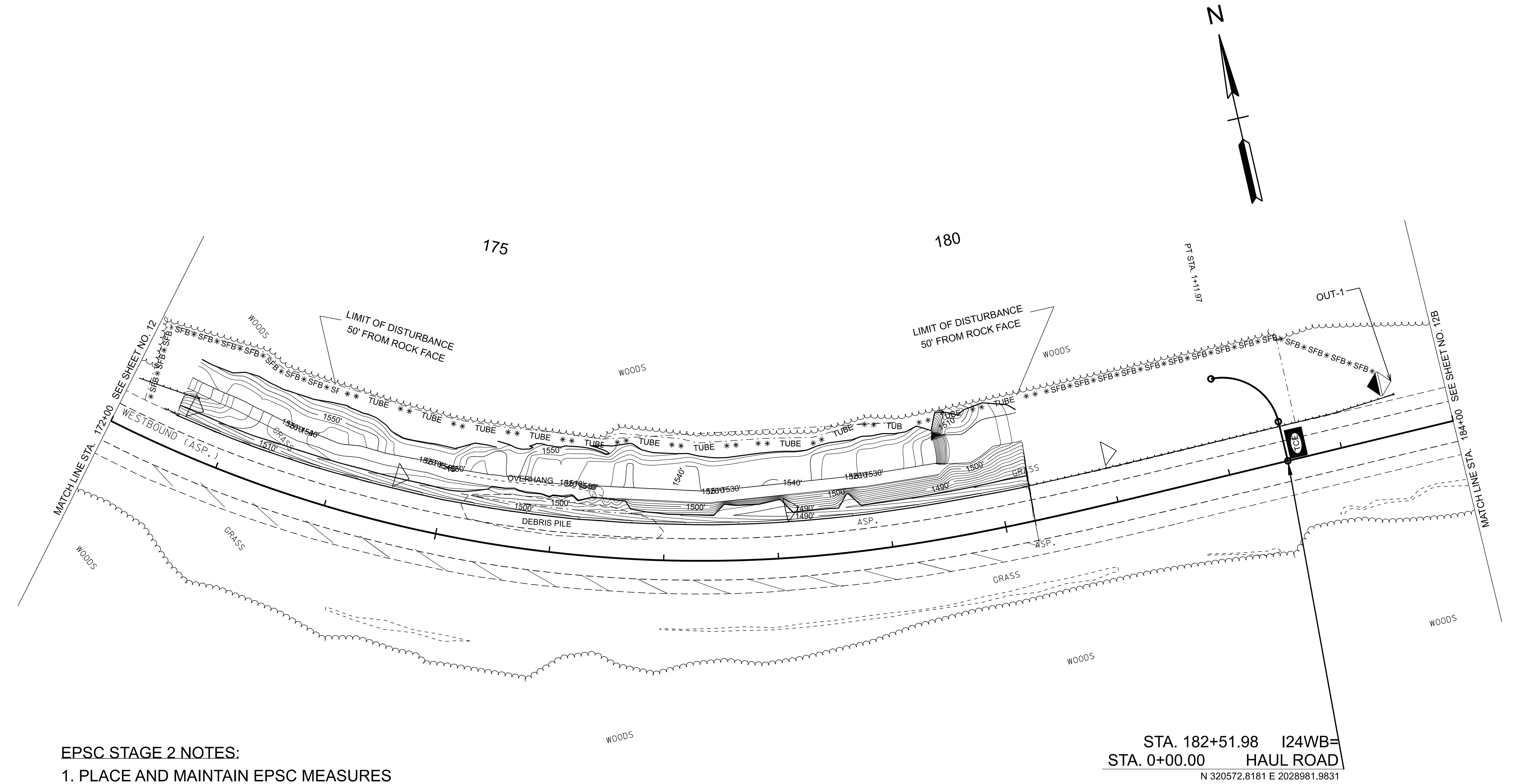
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	12A



EPSC STAGE 2 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. CONTOUR AREAS TO DRAIN AS DIRECTED BY TDOT ENGINEER.

EPSC STAGE 2: INTERMEDIATE

NOTE: 2' EXIST. AND PROP. CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

OUTFALLS TABLE		
Outfalls	Drainage Area (ac.)	Slope (%)
OUT-1	4.80	-4

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
NO. 00125410
STATE OF TENNESSEE
10-02-2025
12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

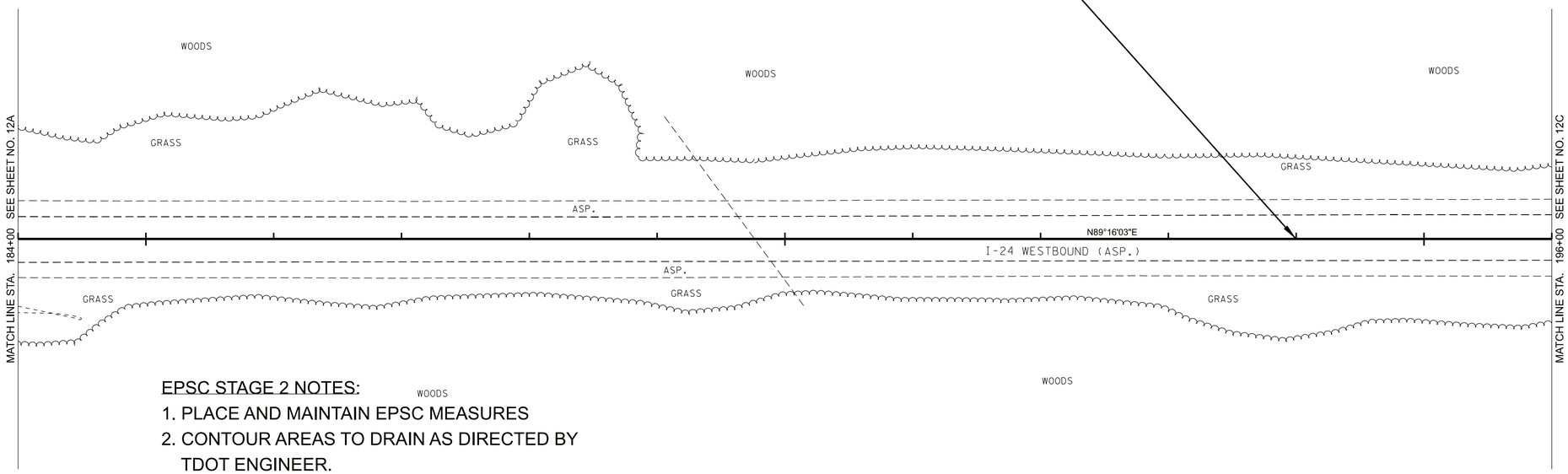
12/9/2025 4:17:31 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC2.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	12B

PROT-I-24-2(198)
END PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 194+00.00
N 320587.4971 E 2030129.9057

N

185 190 195



EPSC STAGE 2 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. CONTOUR AREAS TO DRAIN AS DIRECTED BY TDOT ENGINEER.

EPSC STAGE 2: INTERMEDIATE

NOTE: 2' EXIST. AND PROP. CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO — REGISTERED ENGINEER — AGENT LICENSE NO. 0001954.0 — STATE OF TENNESSEE
10-02-2025
12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

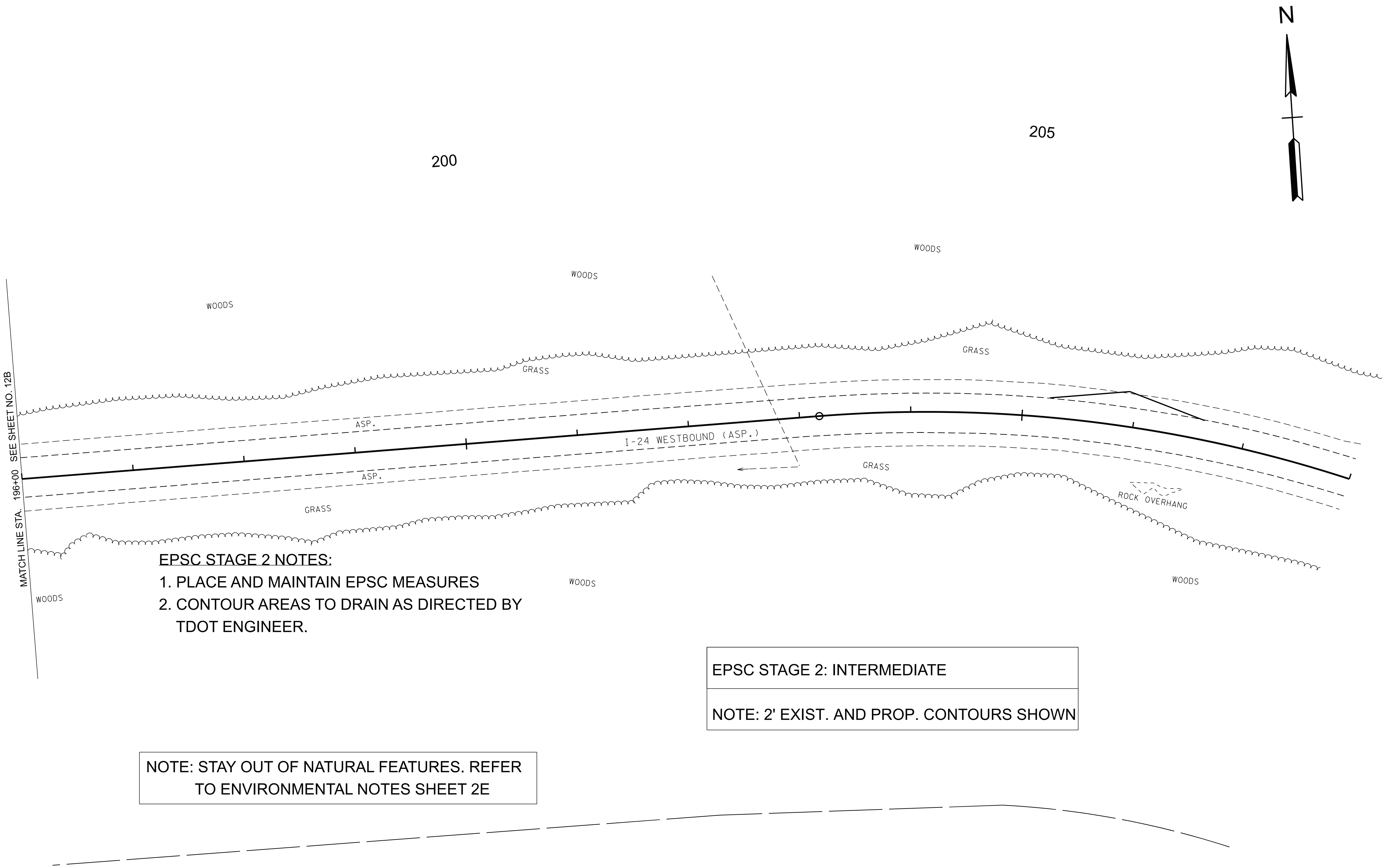
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 184+00.00 TO STA. 196+00.00
SCALE: 1" = 50'

12/9/2025 4:17:33 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC2.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	12C



EPSC STAGE 2 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. CONTOUR AREAS TO DRAIN AS DIRECTED BY TDOT ENGINEER.

EPSC STAGE 2: INTERMEDIATE

NOTE: 2' EXIST. AND PROP. CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

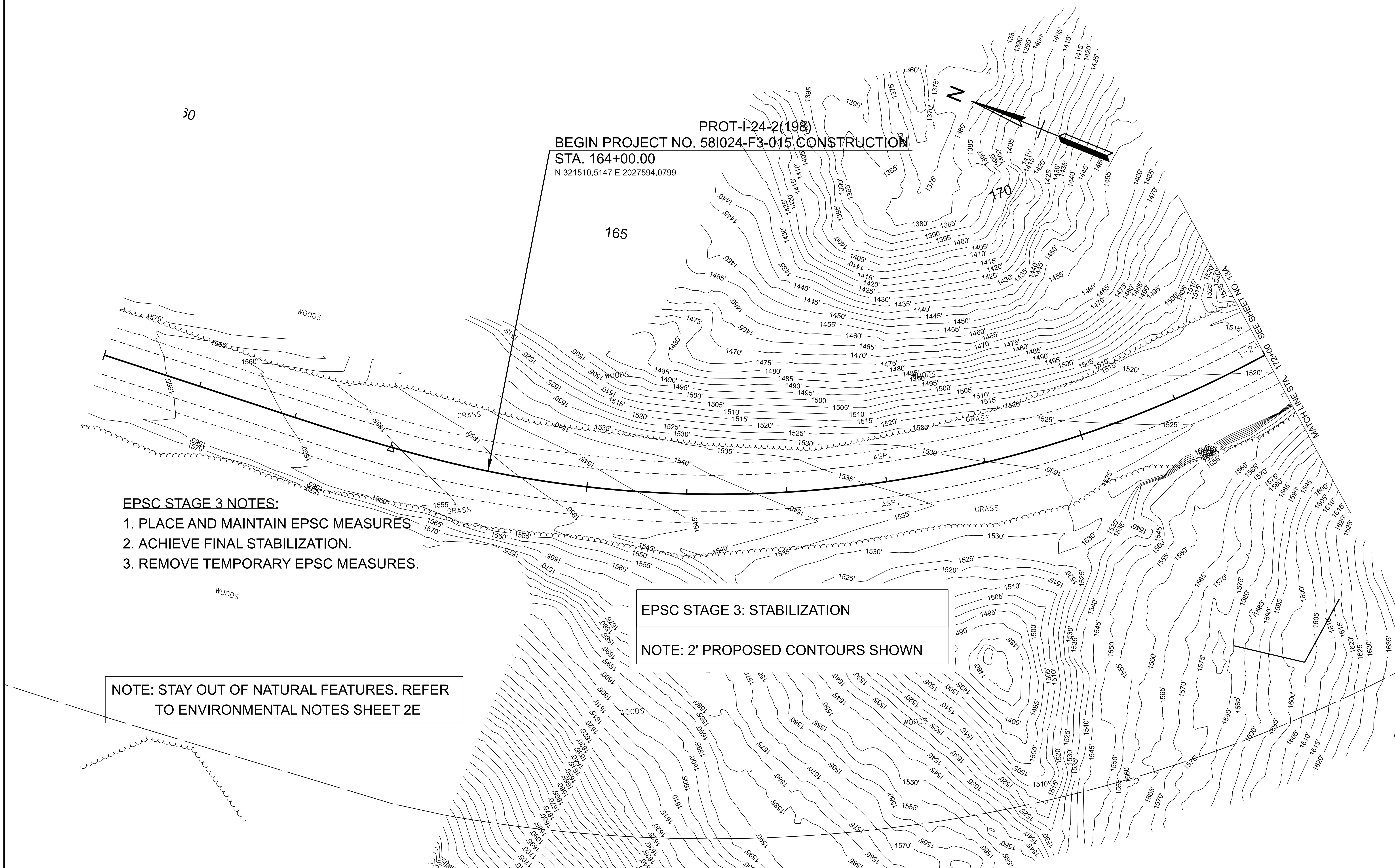
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 196+00.00 TO STA. 208+00.00

SCALE: 1" = 50'

12/9/2025 4:17:34 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC2.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	13



EPSC STAGE 3 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. ACHIEVE FINAL STABILIZATION.
3. REMOVE TEMPORARY EPSC MEASURES.

EPSC STAGE 3: STABILIZATION

NOTE: 2' PROPOSED CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

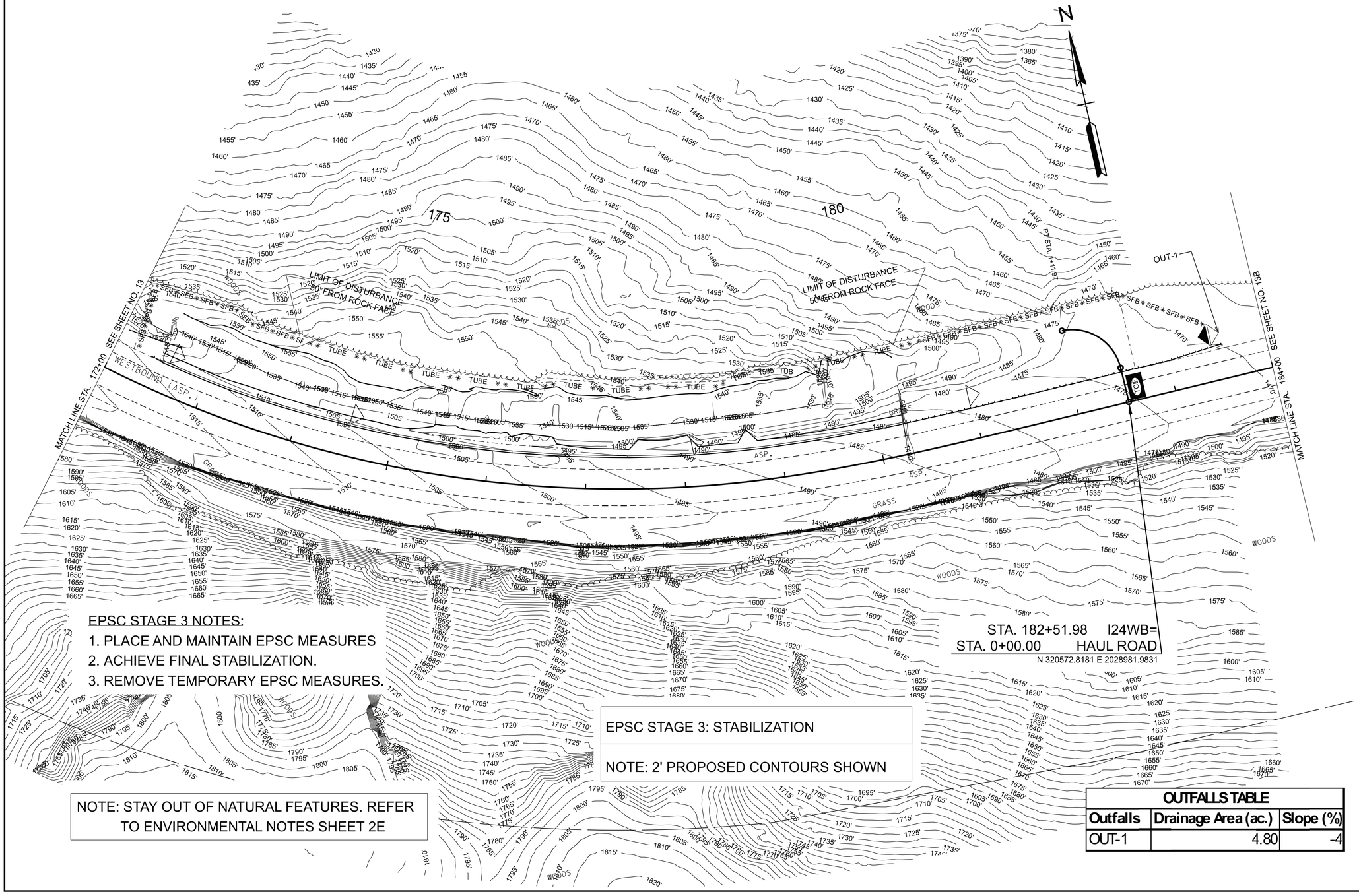
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

12/9/2025 4:17:39 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC3.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	13A



EPSC STAGE 3 NOTES:
1. PLACE AND MAINTAIN EPSC MEASURES
2. ACHIEVE FINAL STABILIZATION.
3. REMOVE TEMPORARY EPSC MEASURES.

EPSC STAGE 3: STABILIZATION

NOTE: 2' PROPOSED CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

OUTFALLS TABLE

Outfalls	Drainage Area (ac.)	Slope (%)
OUT-1	4.80	-4

SEALED BY

JOSEPH L. DELOREZO
REGISTERED ENGINEER
No. 0019540
STATE OF TENNESSEE
10-02-2025

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

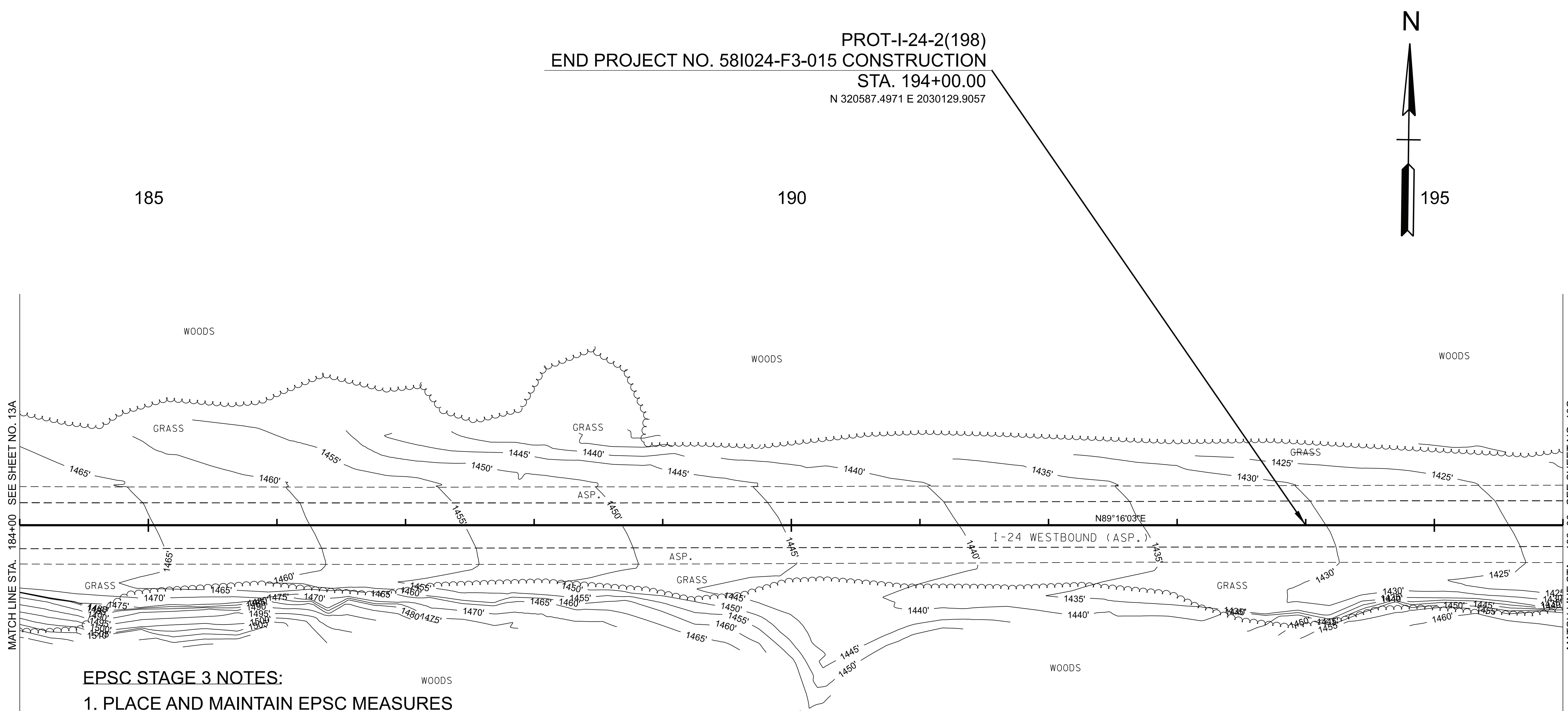
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

12/9/2025 4:17:42 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC3.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	13B

PROT-I-24-2(198)
END PROJECT NO. 58I024-F3-015 CONSTRUCTION
STA. 194+00.00
N 320587.4971 E 2030129.9057



EPSC STAGE 3 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. ACHIEVE FINAL STABILIZATION.
3. REMOVE TEMPORARY EPSC MEASURES.

EPSC STAGE 3: STABILIZATION

NOTE: 2' PROPOSED CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

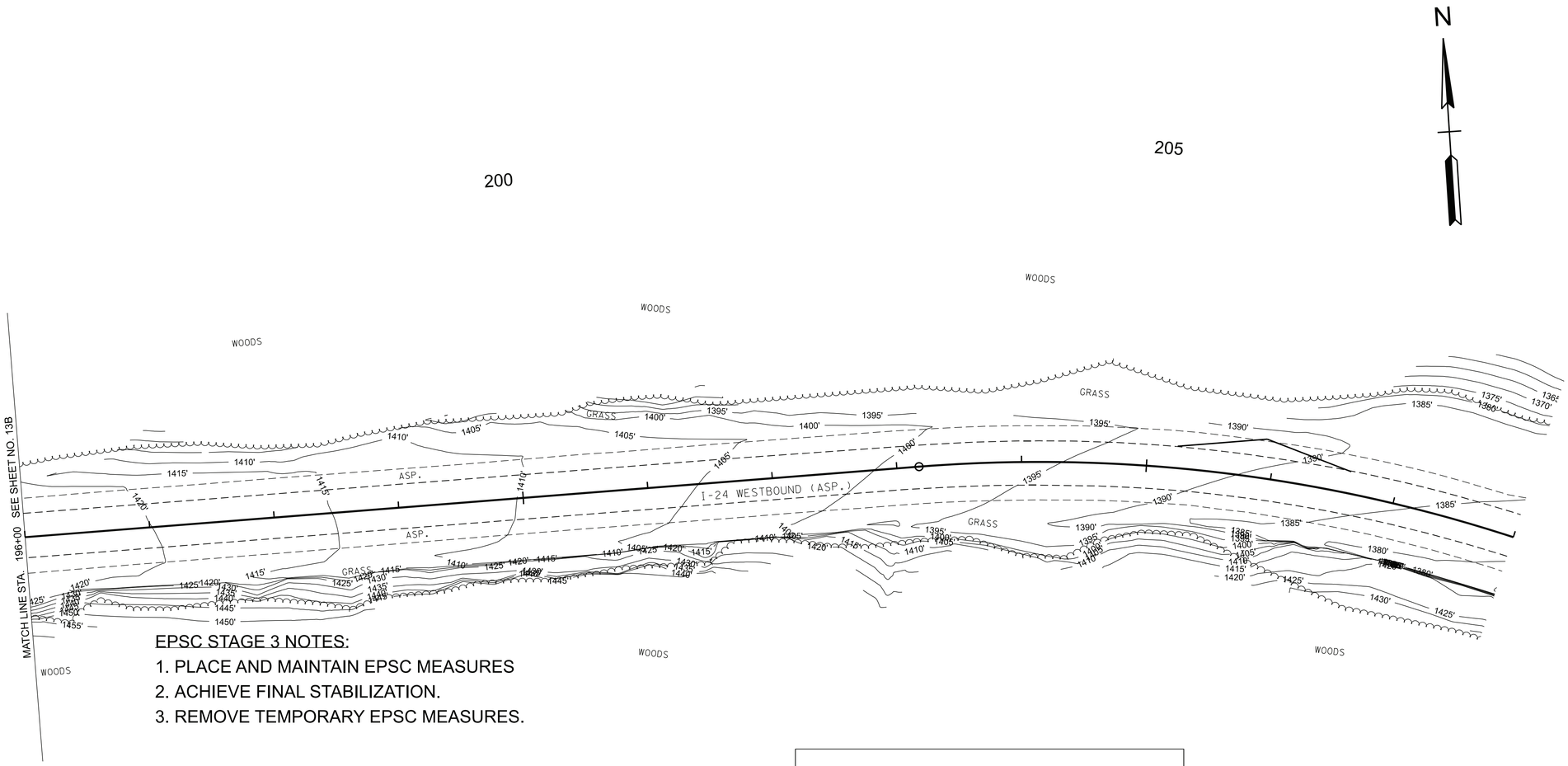
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 184+00.00 TO STA. 196+00.00
SCALE: 1" = 50'

12/9/2025 4:17:45 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC3.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	13C



EPSC STAGE 3 NOTES:

1. PLACE AND MAINTAIN EPSC MEASURES
2. ACHIEVE FINAL STABILIZATION.
3. REMOVE TEMPORARY EPSC MEASURES.

EPSC STAGE 3: STABILIZATION

NOTE: 2' PROPOSED CONTOURS SHOWN

NOTE: STAY OUT OF NATURAL FEATURES. REFER TO ENVIRONMENTAL NOTES SHEET 2E

SEALED BY

JOSEPH L. DELORENZO
REGISTERED ENGINEER
AGENCY
10-02-2025
NUMBER
NO. 00125410
STATE OF TENNESSEE

10-02-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

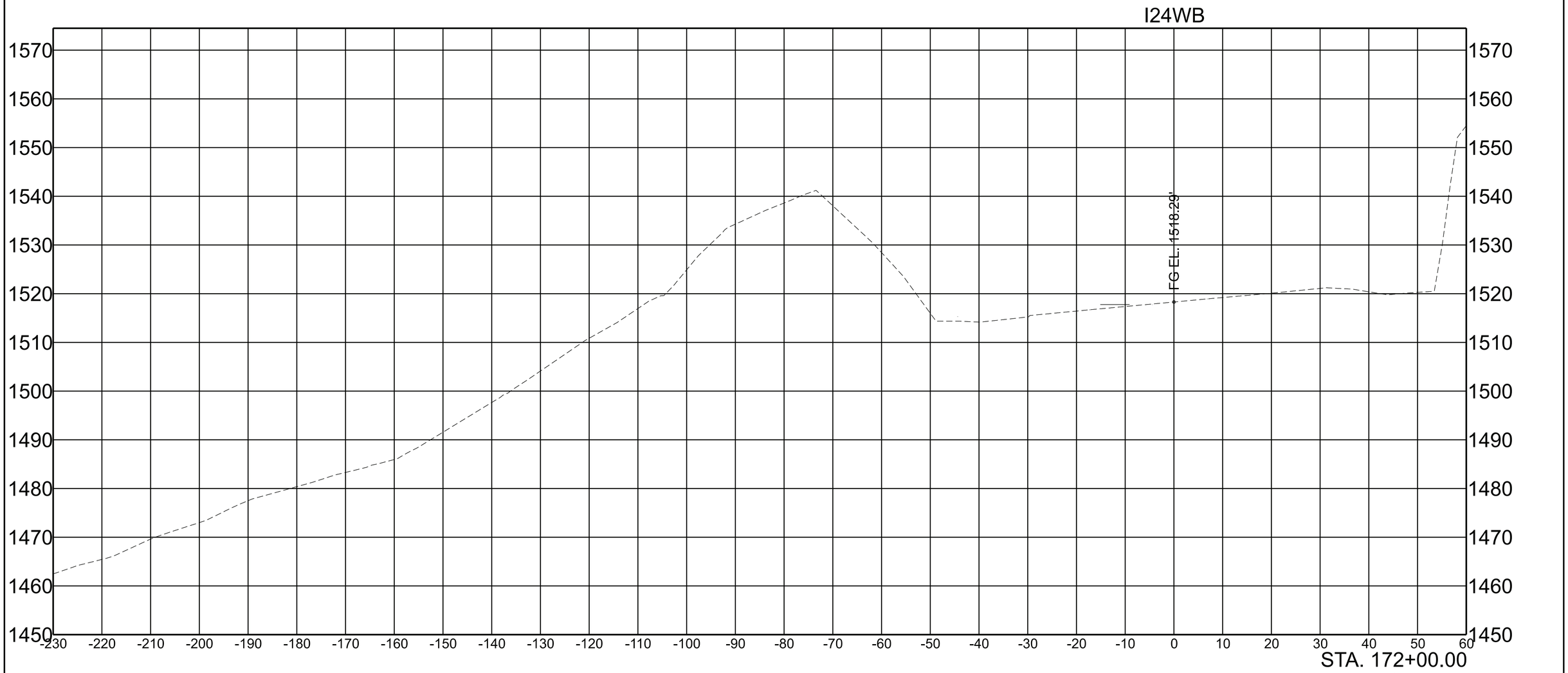
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 196+00.00 TO STA. 208+00.00
SCALE: 1" = 50'

12/9/2025 4:17:47 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-EPSC3.DGN

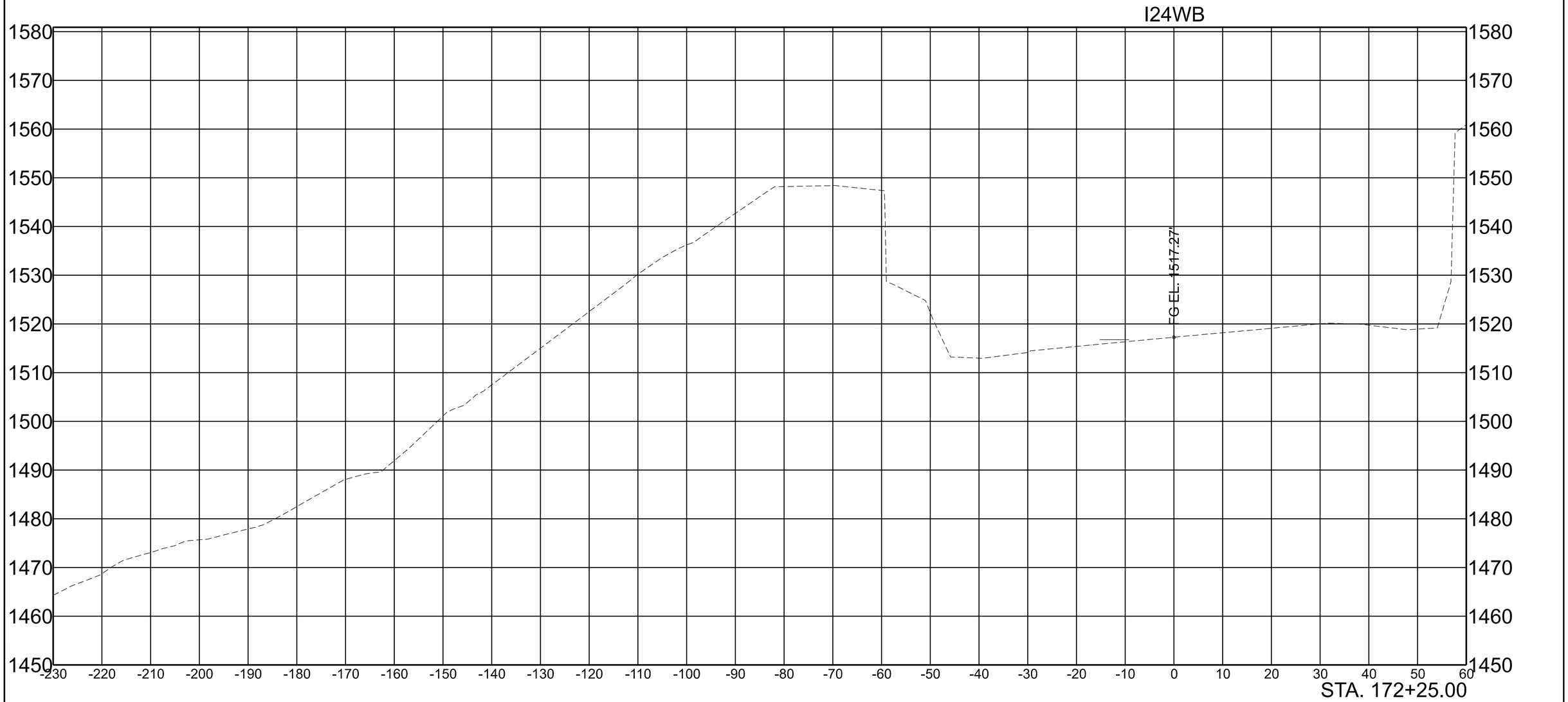
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	14



SCALE:	1"=10' HORIZ.	BEGIN STA. 172+00.00
	1"=10' VERT.	END STA. 172+00.00

12/9/2025 2:58:41 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\ITDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

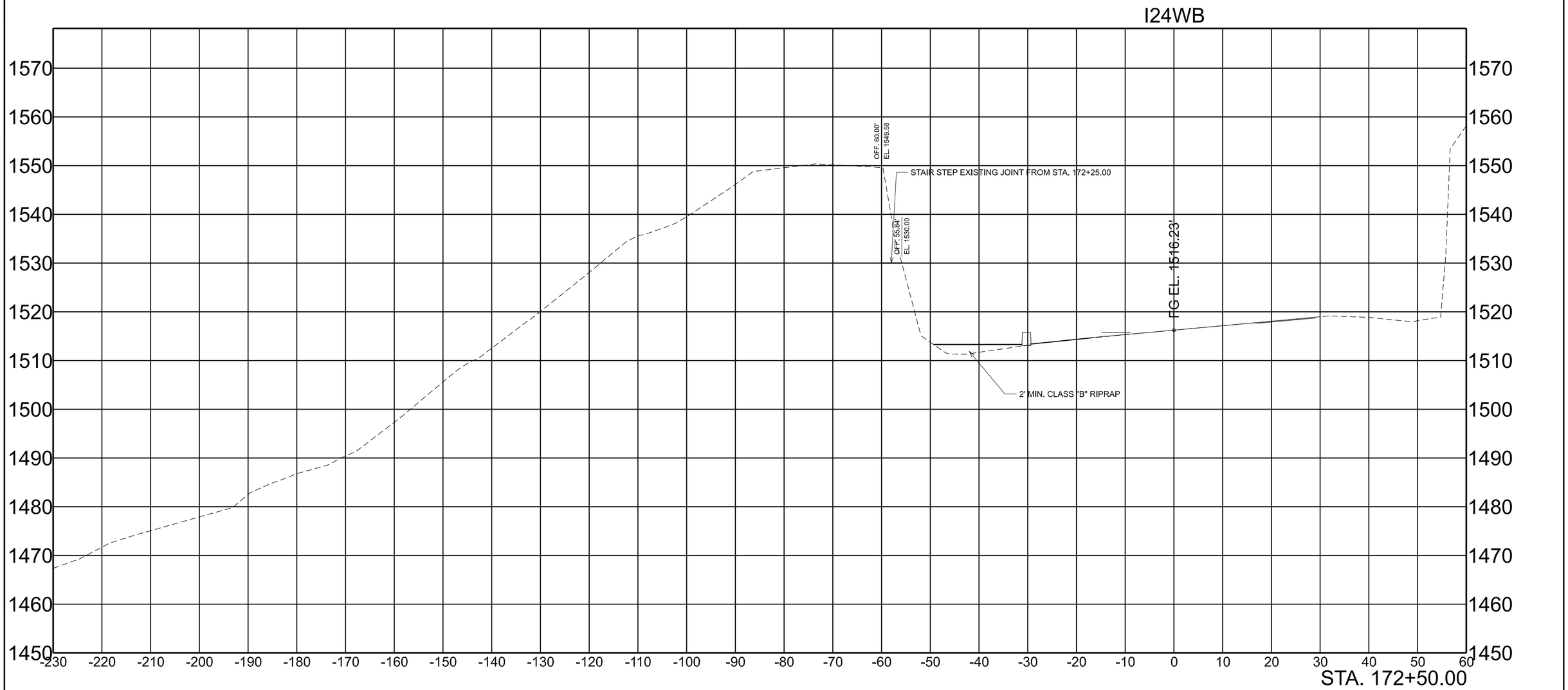
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	15



SCALE:	1"=10' HORIZ.	BEGIN STA. 172+25.00
	1"=10' VERT.	END STA. 172+25.00

12/9/2025 2:58:41 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

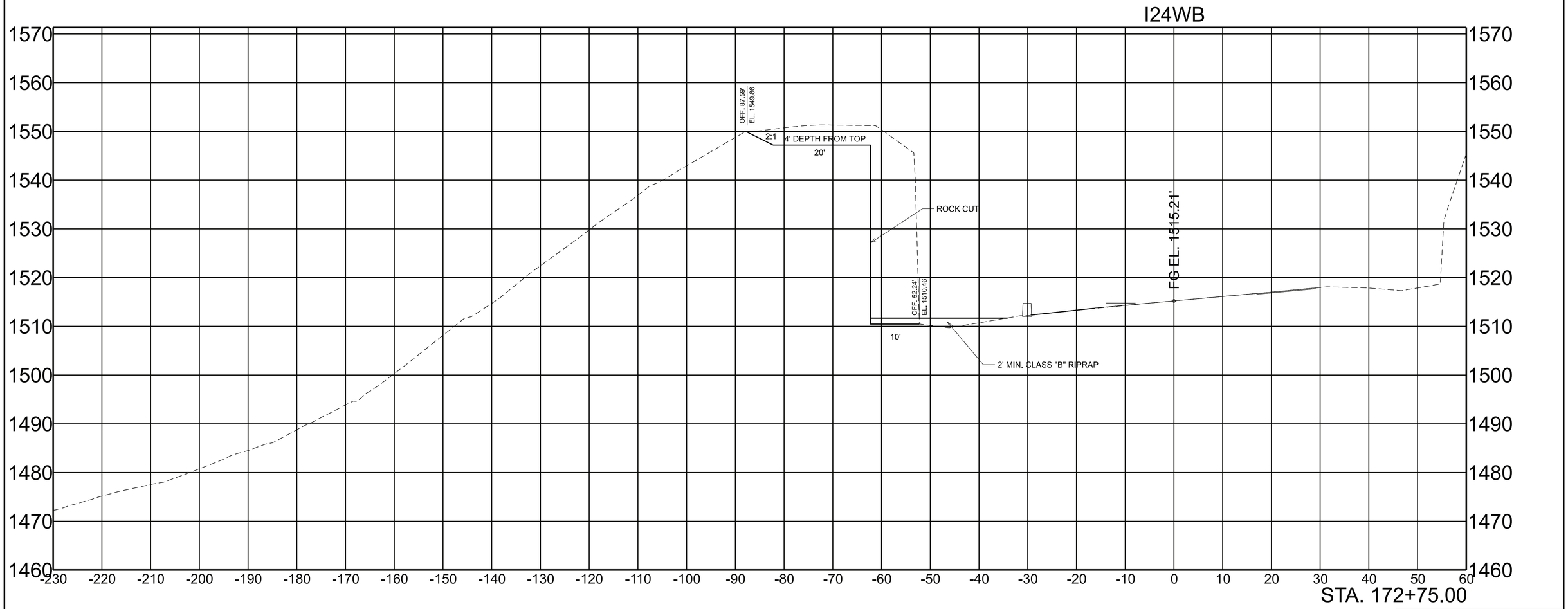
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	16



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 172+50.00 END STA. 172+50.00

12/9/2025 2:58:43 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

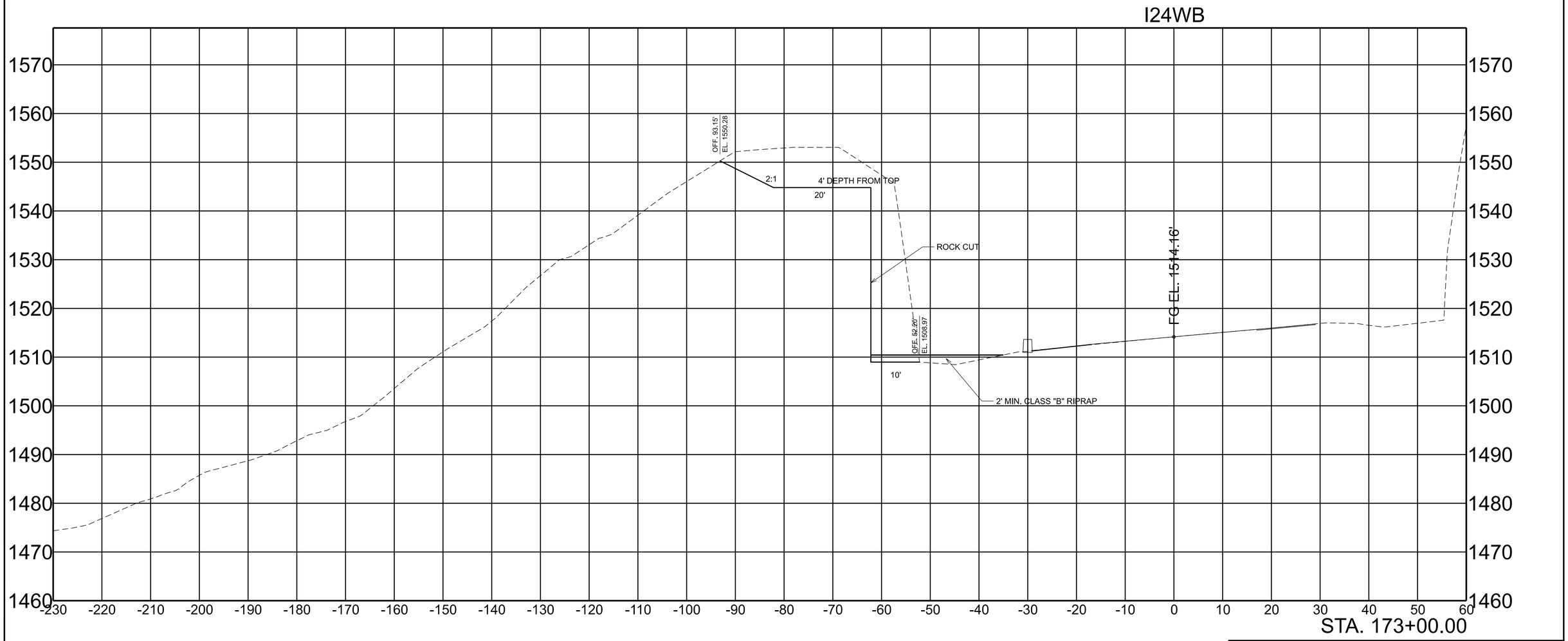
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	17



SCALE:	1"=10' HORIZ.	BEGIN STA. 172+75.00
	1"=10' VERT.	END STA. 172+75.00

12/9/2025 2:58:44 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\SI-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

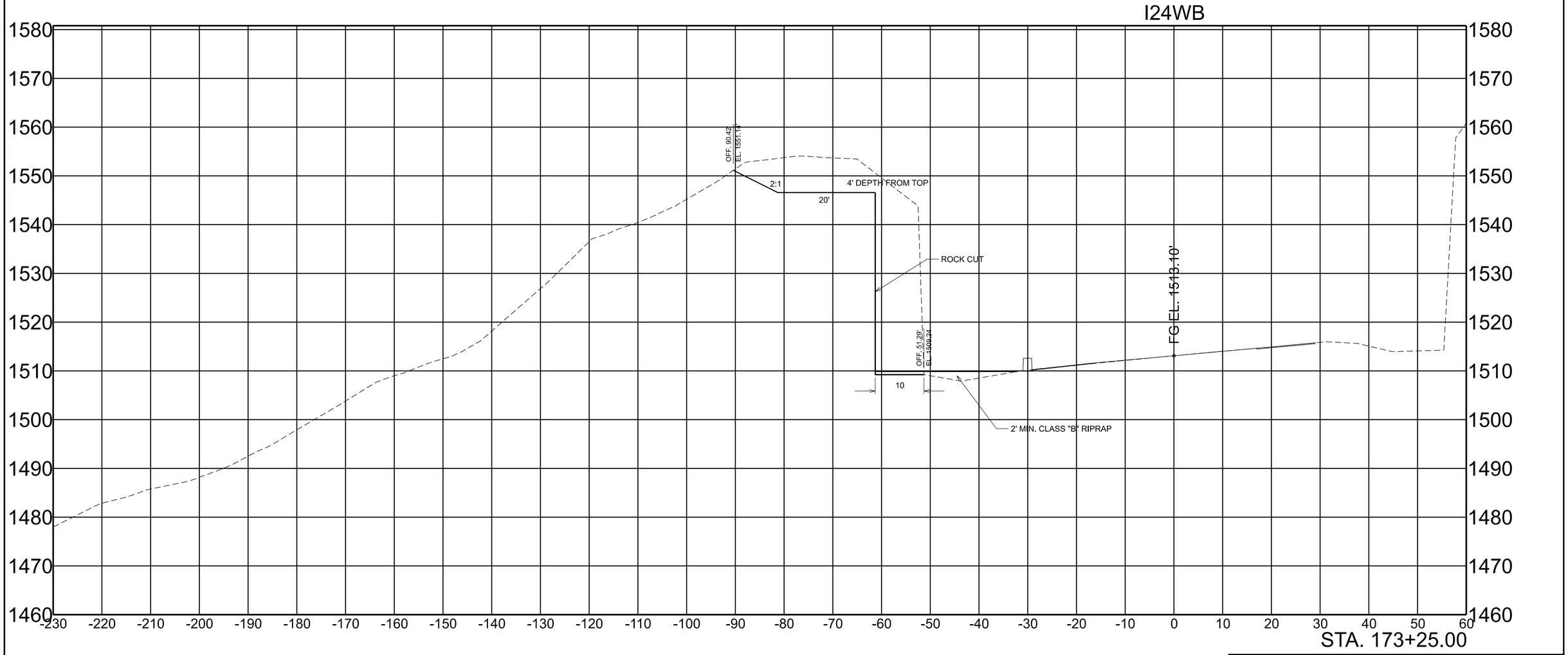
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	18



SCALE:	1"=10' HORIZ.	BEGIN STA. 173+00.00
	1"=10' VERT.	END STA. 173+00.00

12/9/2025 2:58:45 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\SI-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

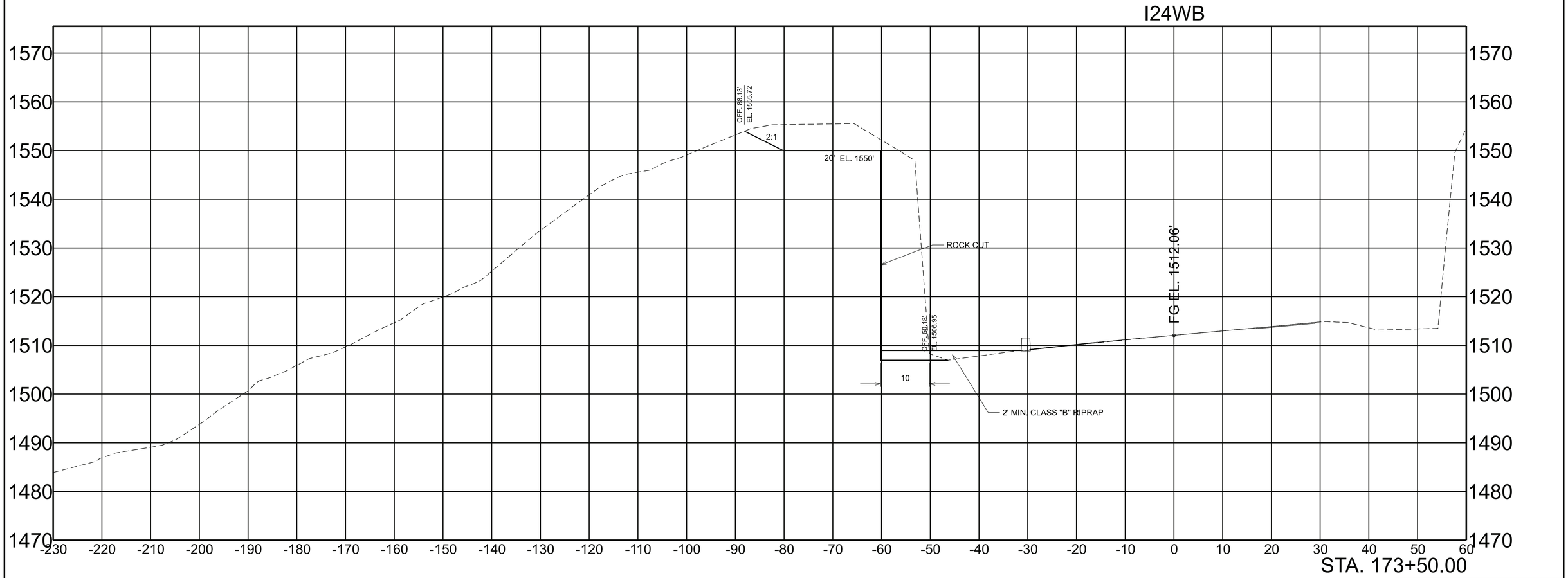
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	19



SCALE:	1"=10' HORIZ.	BEGIN STA. 173+25.00
	1"=10' VERT.	END STA. 173+25.00

12/9/2025 2:58:46 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

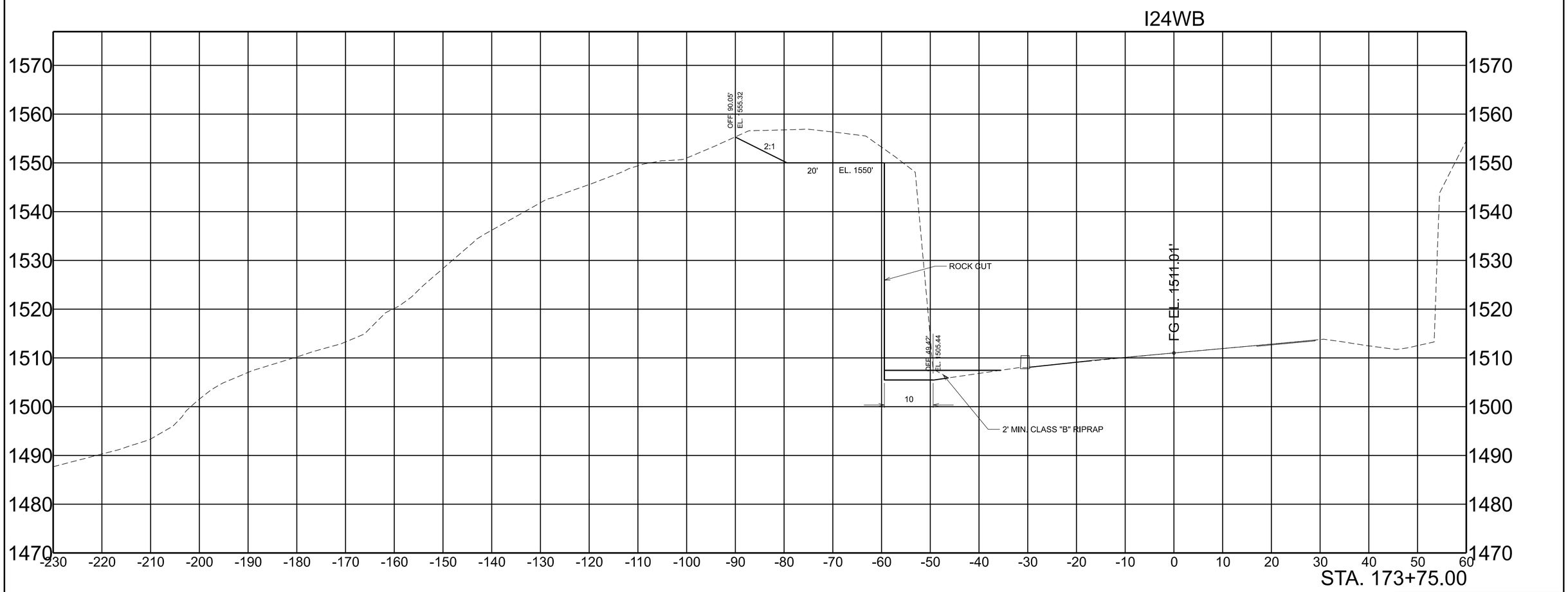
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	20



SCALE:	1"=10' HORIZ.	BEGIN STA. 173+50.00
	1"=10' VERT.	END STA. 173+50.00

12/9/2025 2:58:47 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

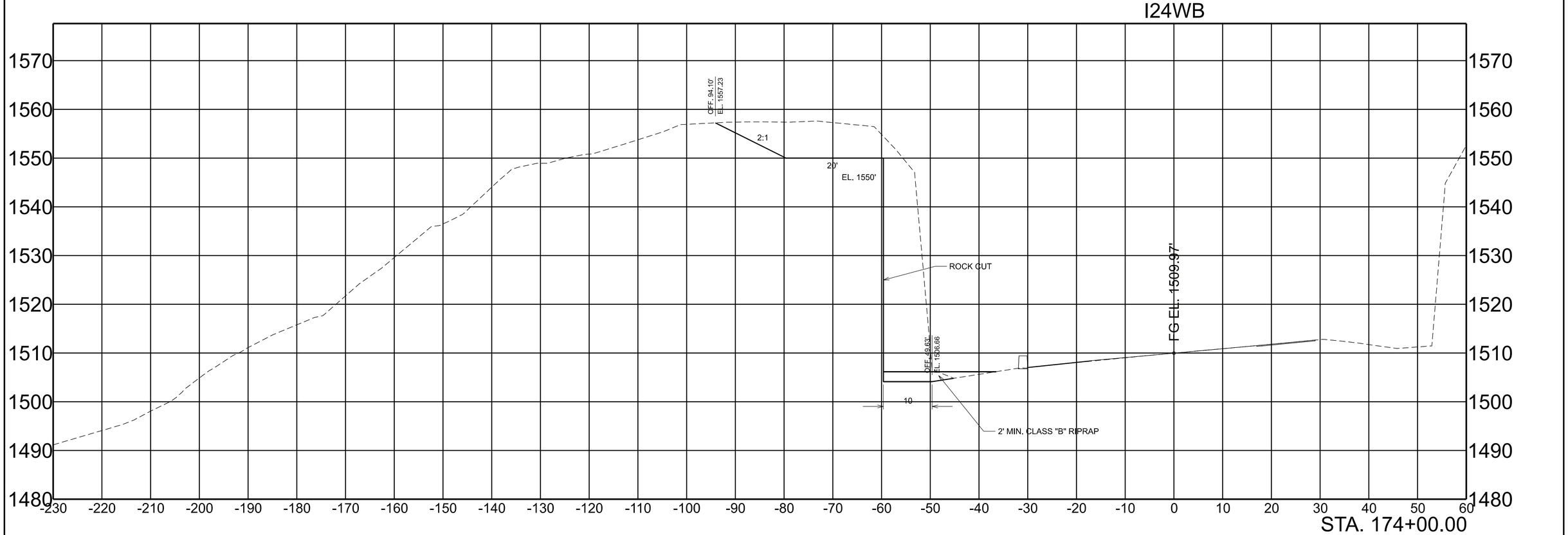
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	21



SCALE:	1"=10' HORIZ.	BEGIN STA. 173+75.00
	1"=10' VERT.	END STA. 173+75.00

12/9/2025 2:58:48 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

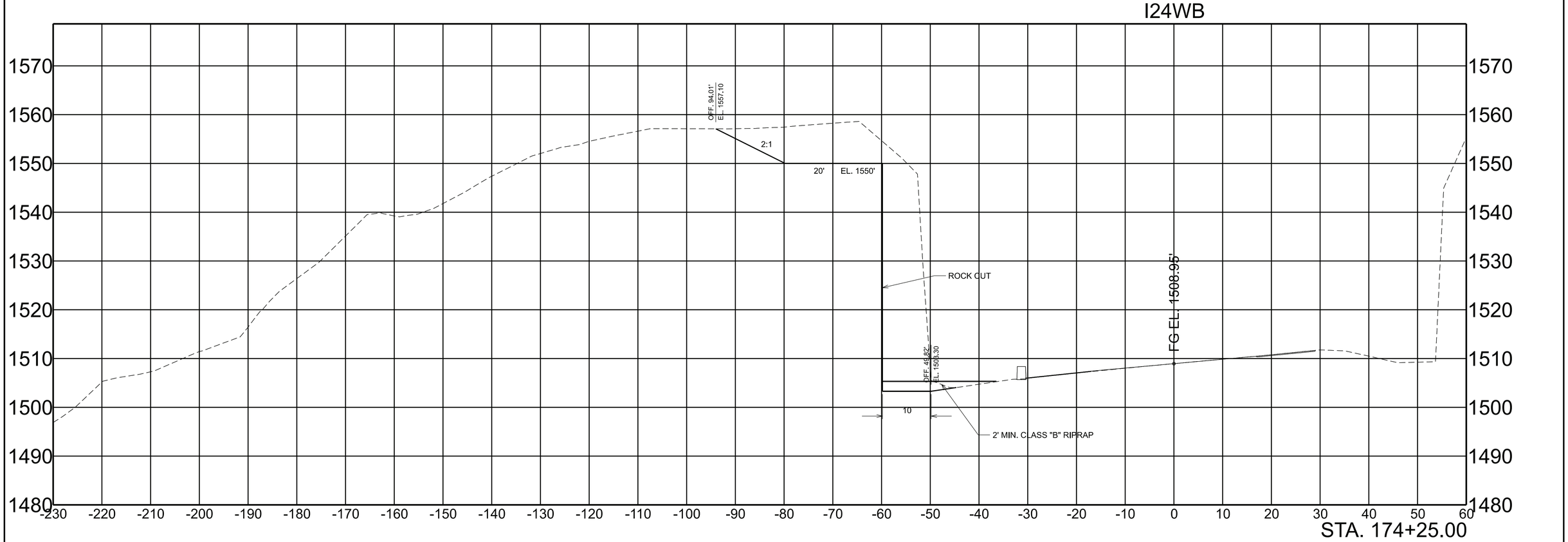
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	22



SCALE:	1"=10' HORIZ.	BEGIN STA. 174+00.00
	1"=10' VERT.	END STA. 174+00.00

12/9/2025 2:58:49 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

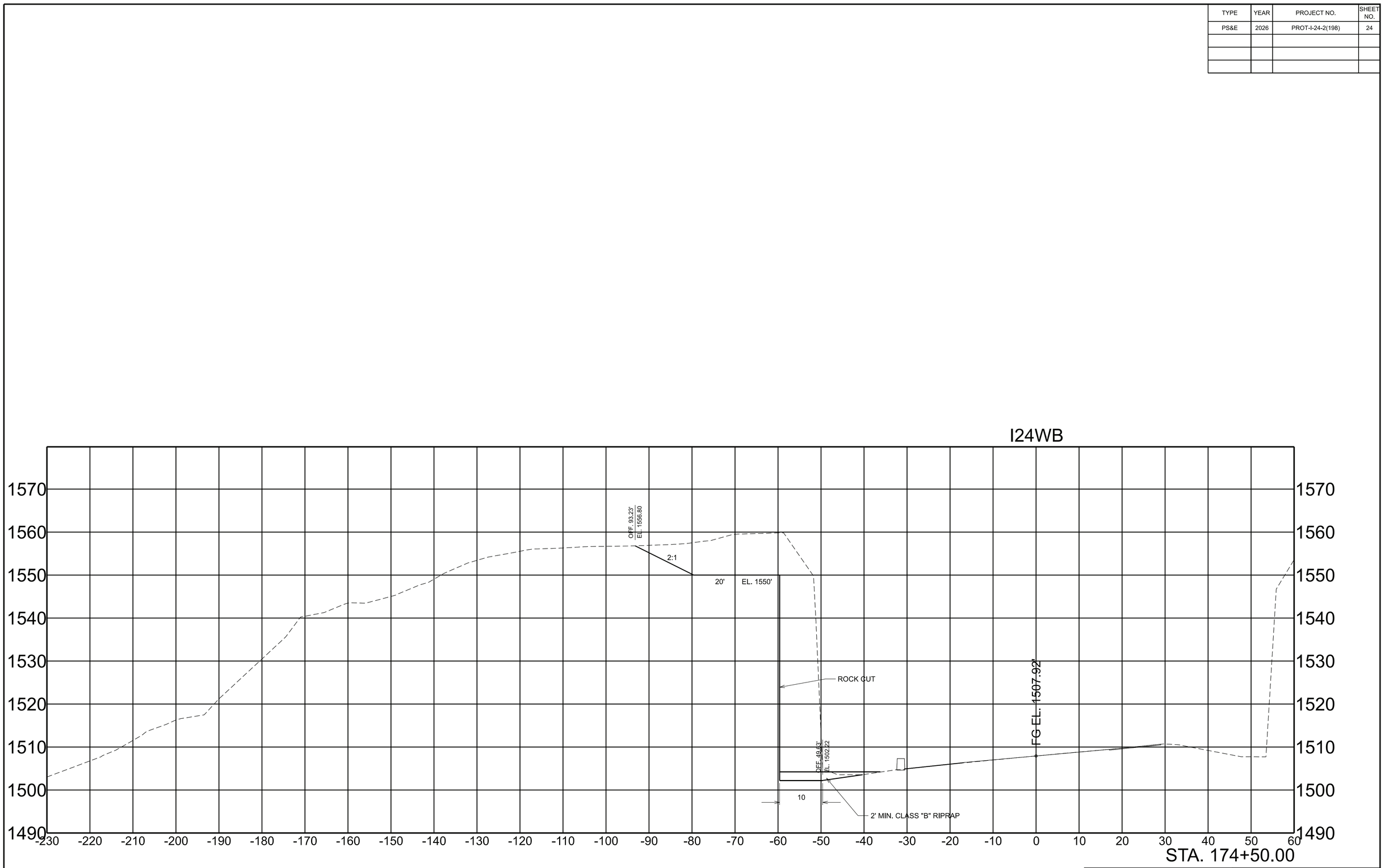
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	23



SCALE:	1"=10' HORIZ.	BEGIN STA. 174+25.00
	1"=10' VERT.	END STA. 174+25.00

12/9/2025 2:58:50 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

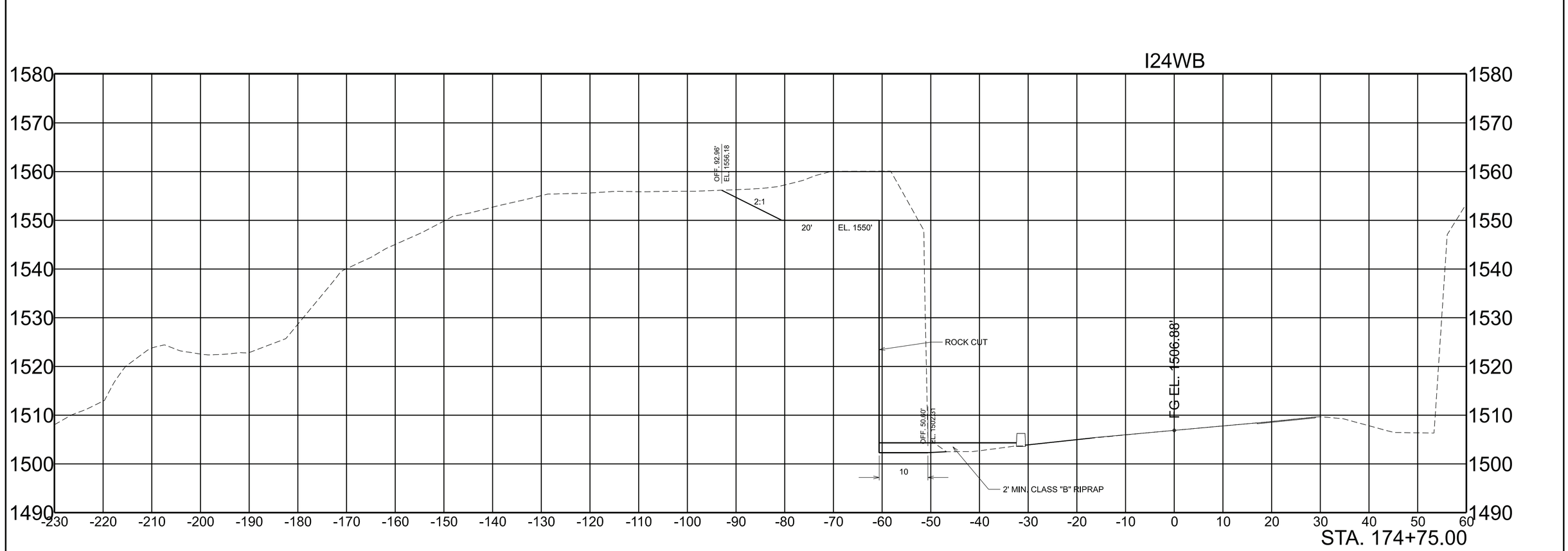
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	24



SCALE:	1"=10' HORIZ.	BEGIN STA. 174+50.00
	1"=10' VERT.	END STA. 174+50.00

12/9/2025 2:58:51 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

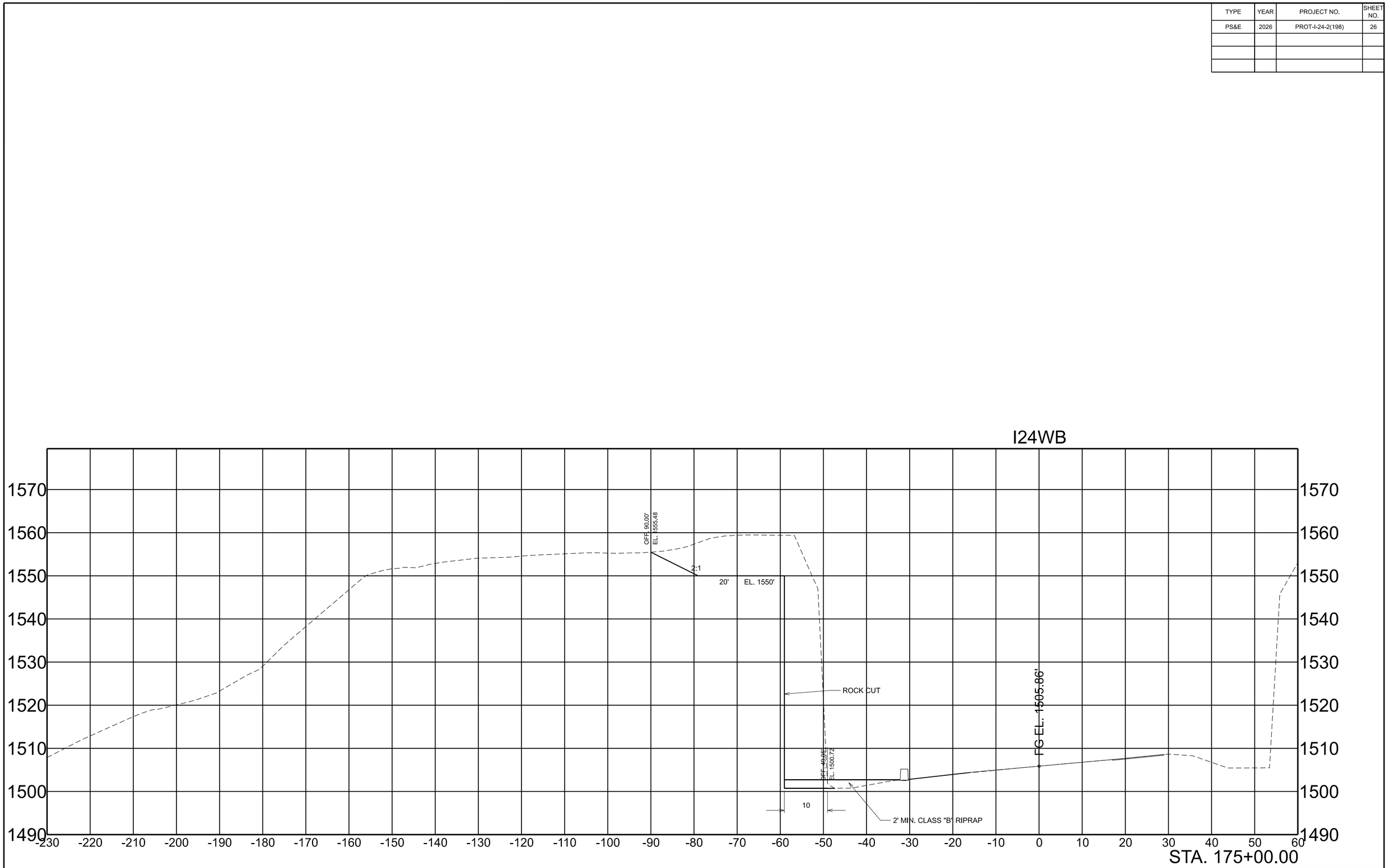
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	25



SCALE:	1"=10' HORIZ.	BEGIN STA. 174+75.00
	1"=10' VERT.	END STA. 174+75.00

12/9/2025 2:58:52 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

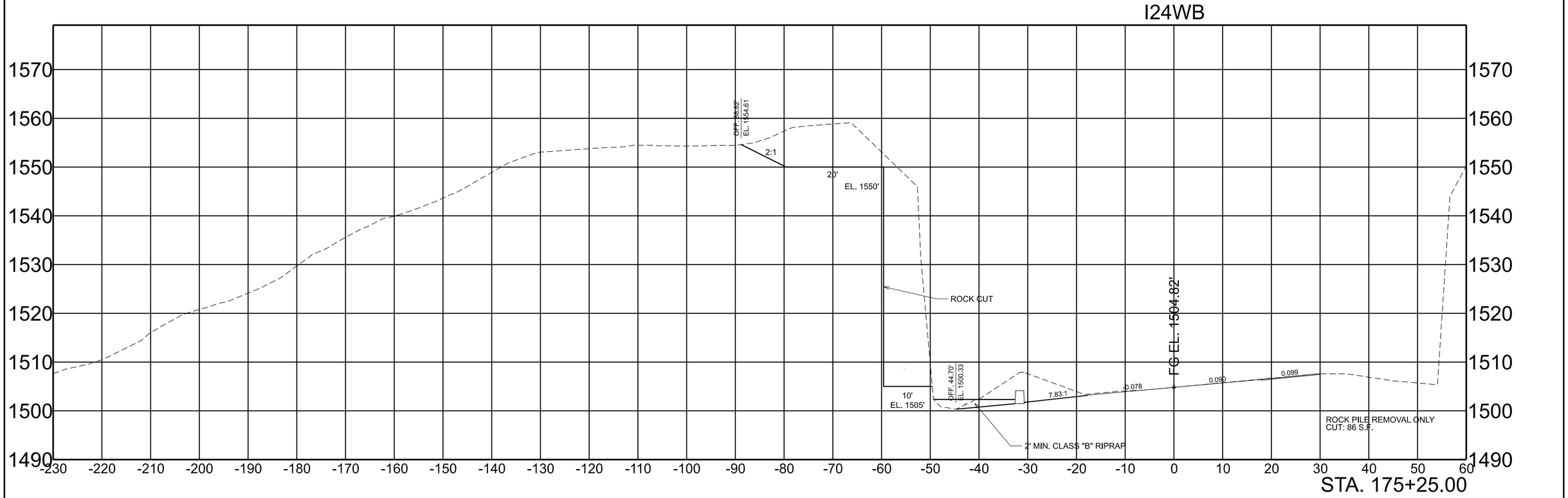
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	26



SCALE:	1"=10' HORIZ.	BEGIN STA. 175+00.00
	1"=10' VERT.	END STA. 175+00.00

12/9/2025 2:58:53 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

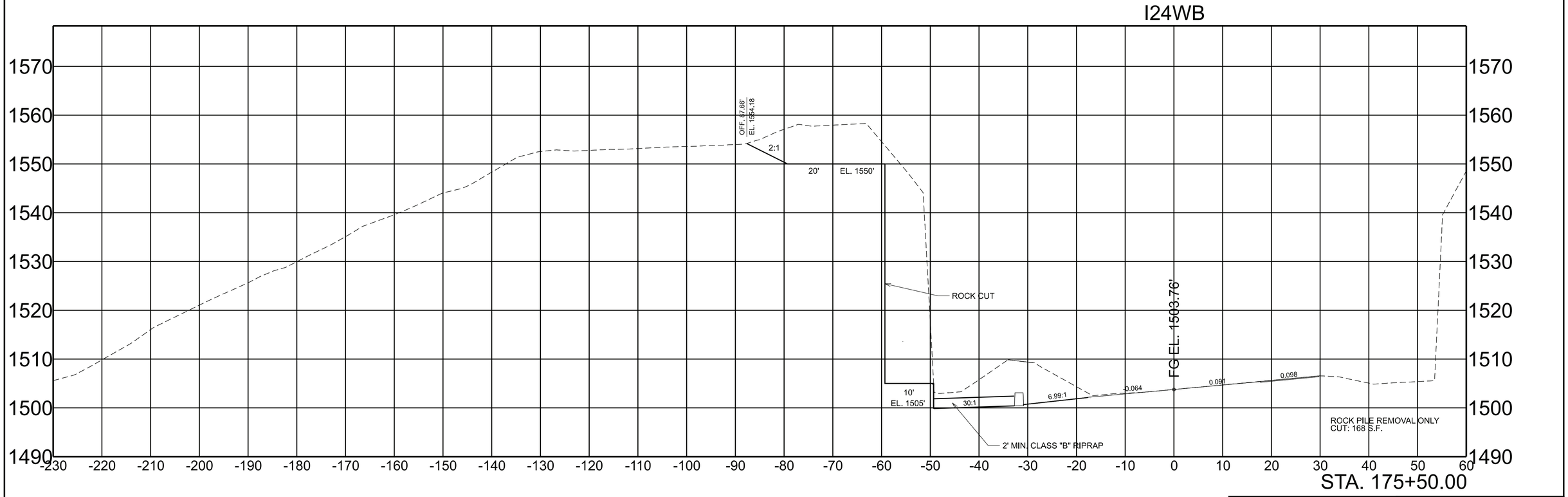
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	27



SCALE:	1"=10' HORIZ.	BEGIN STA. 175+25.00
	1"=10' VERT.	END STA. 175+25.00

12/9/2025 2:58:54 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

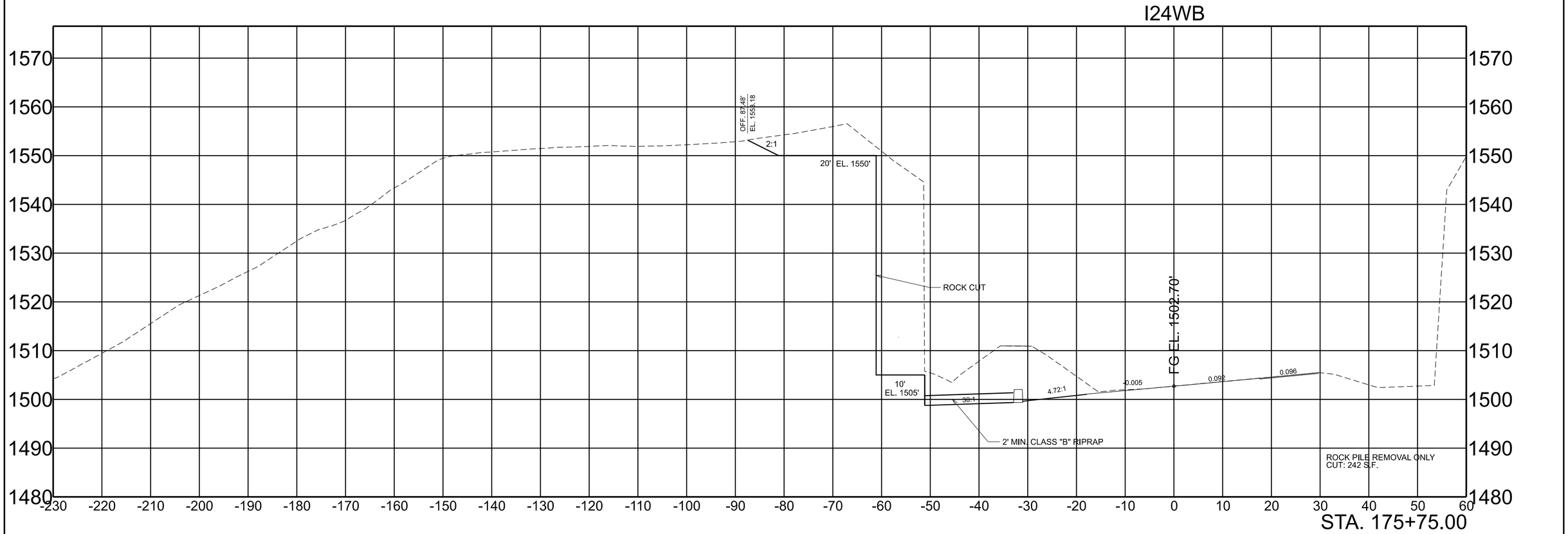
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	28



SCALE:		
	1"=10' HORIZ.	BEGIN STA. 175+50.00
	1"=10' VERT.	END STA. 175+50.00

12/9/2025 2:58:55 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

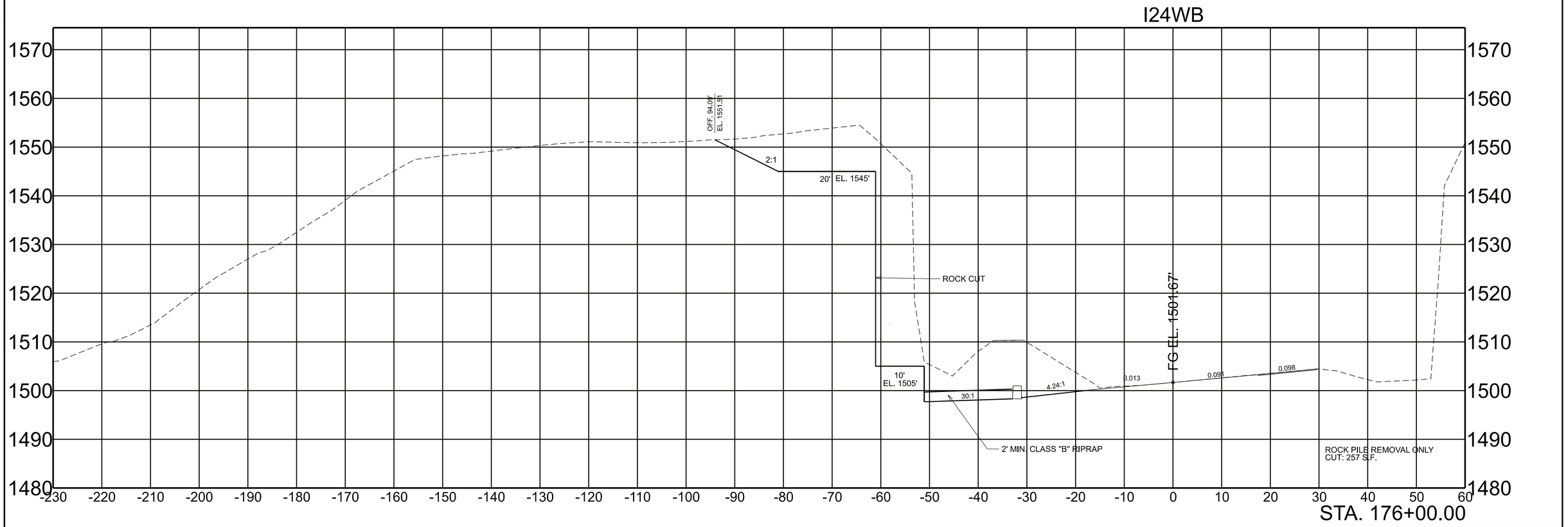
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	29



SCALE:	1"=10' HORIZ.	BEGIN STA. 175+75.00
	1"=10' VERT.	END STA. 175+75.00

12/9/2025 2:58:55 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

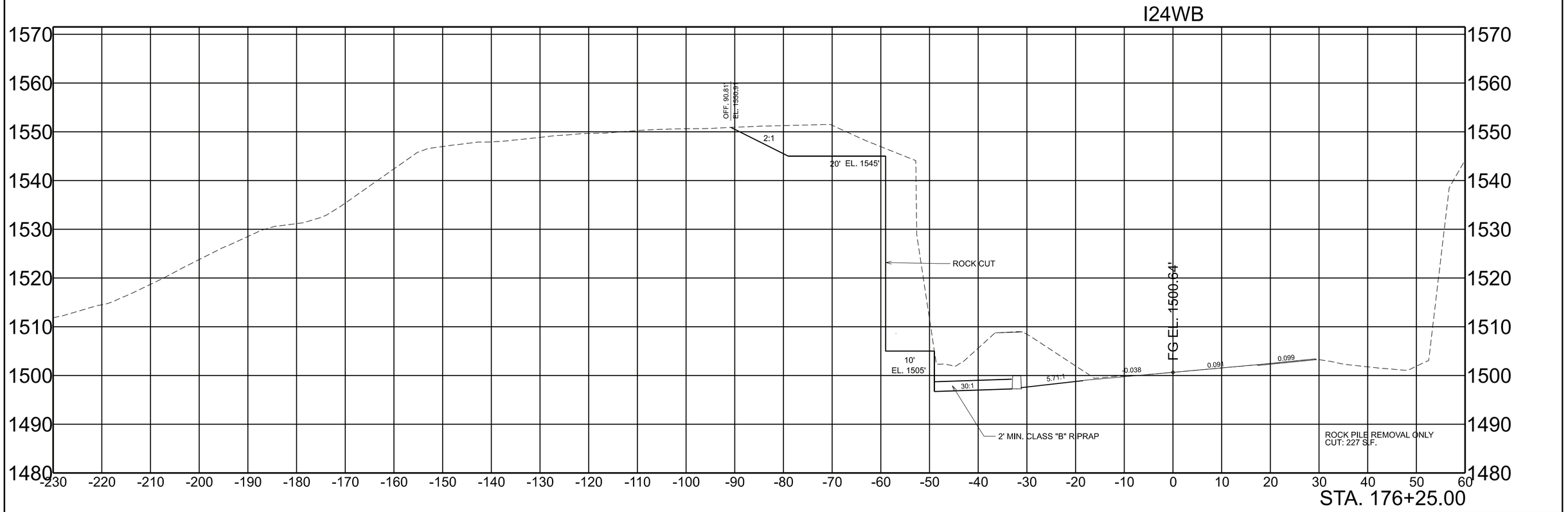
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	30



SCALE:	1"=10' HORIZ.	BEGIN STA. 176+00.00
	1"=10' VERT.	END STA. 176+00.00

12/9/2025 2:58:56 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

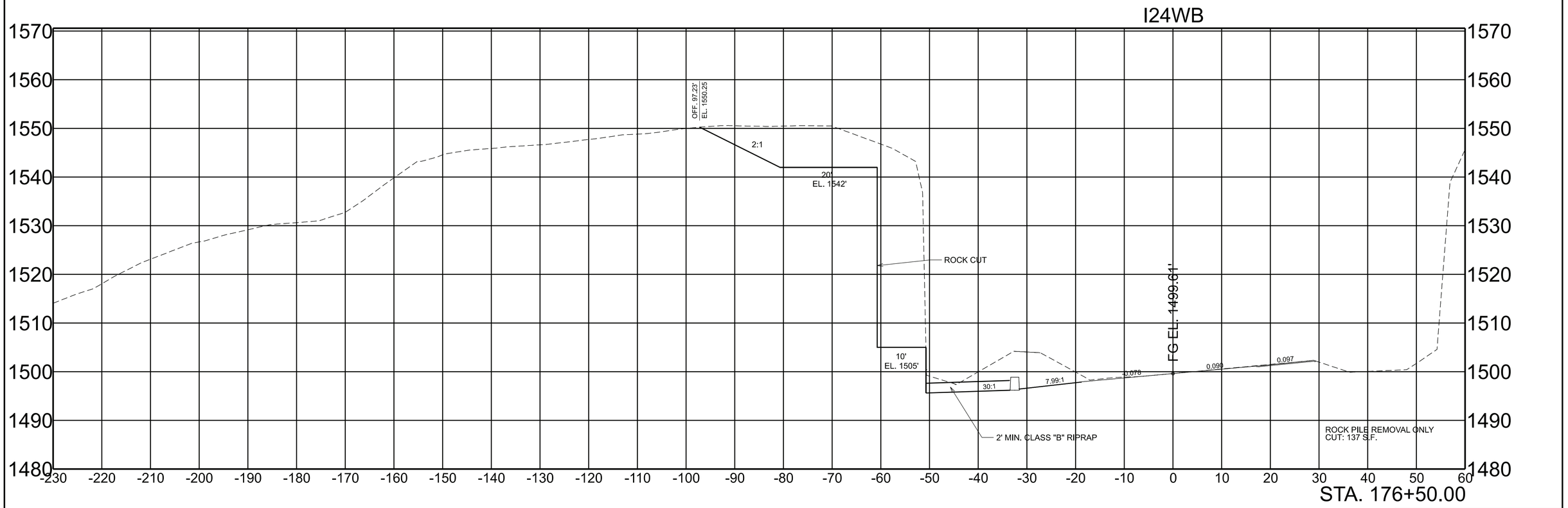
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	31



SCALE:	1"=10' HORIZ.	BEGIN STA. 176+25.00
	1"=10' VERT.	END STA. 176+25.00

12/9/2025 2:58:57 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

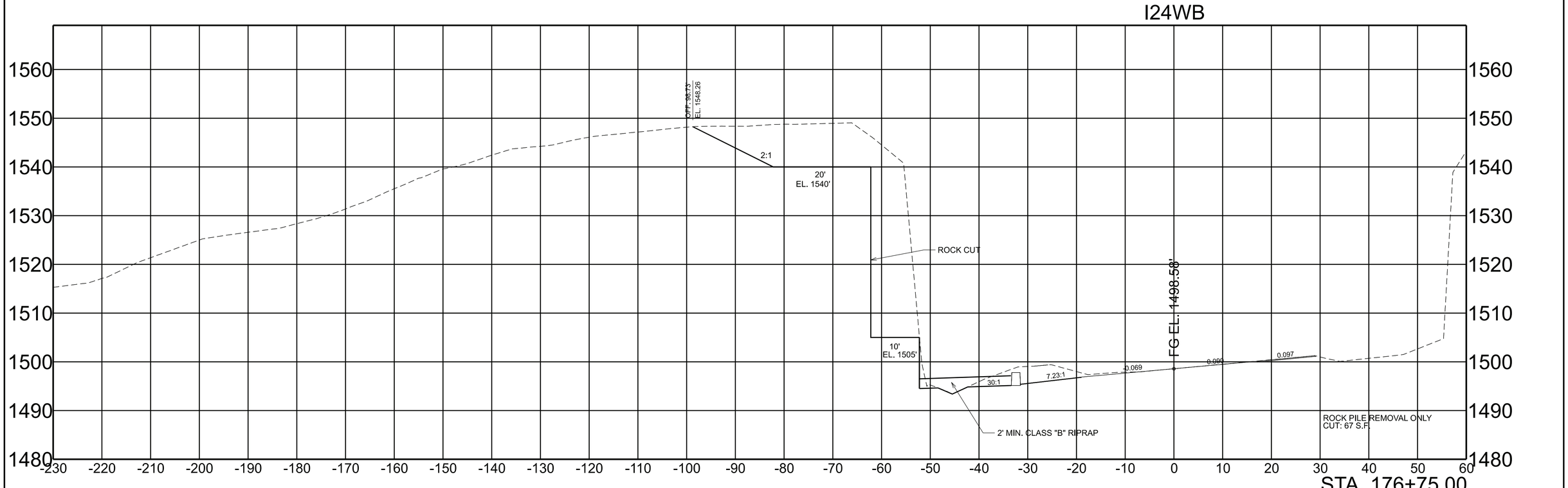
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	32



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA.	176+50.00
		END STA.	176+50.00

12/9/2025 2:58:58 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

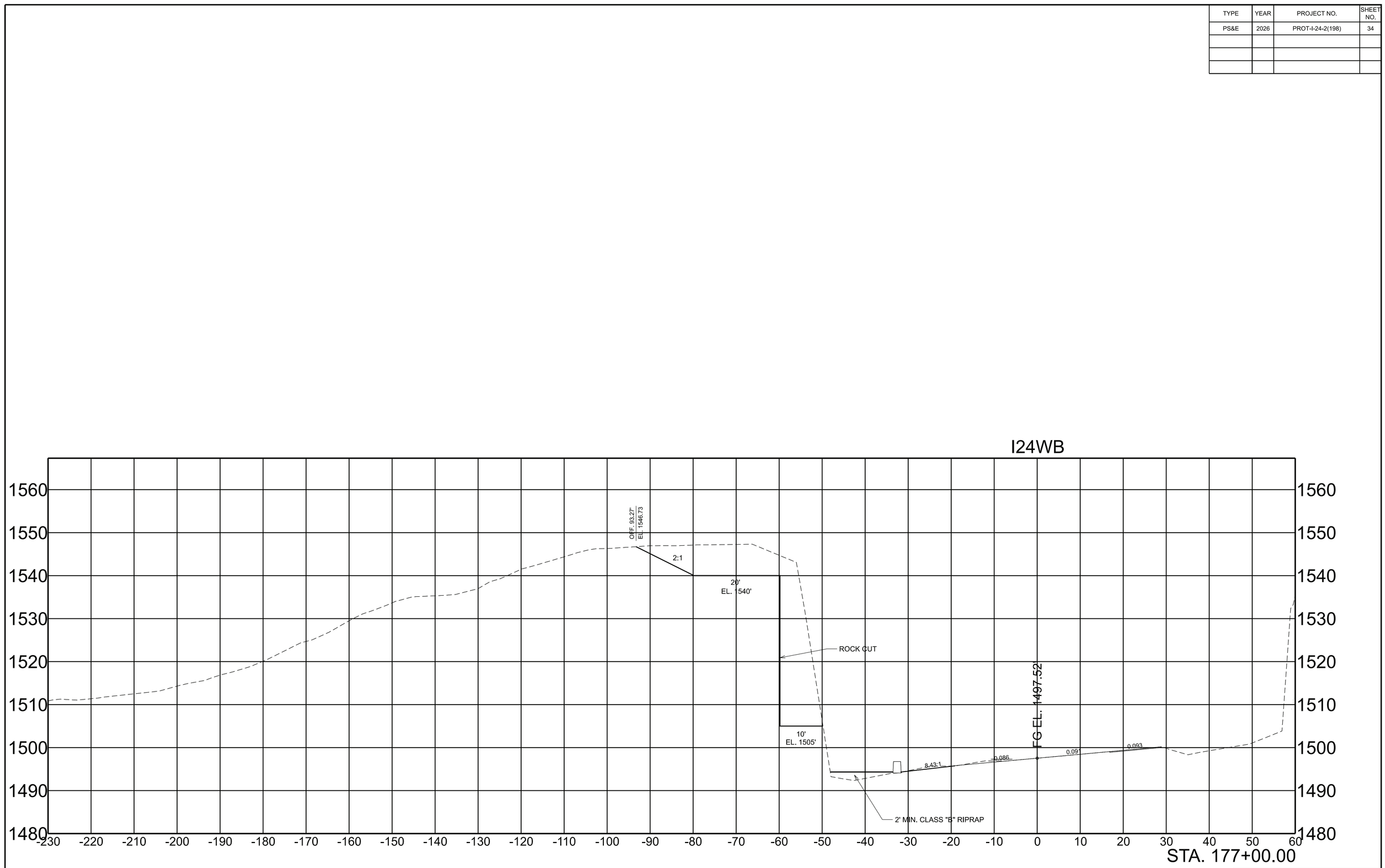
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	33



SCALE:	1"=10' HORIZ.	BEGIN STA. 176+75.00
	1"=10' VERT.	END STA. 176+75.00

12/9/2025 2:58:59 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

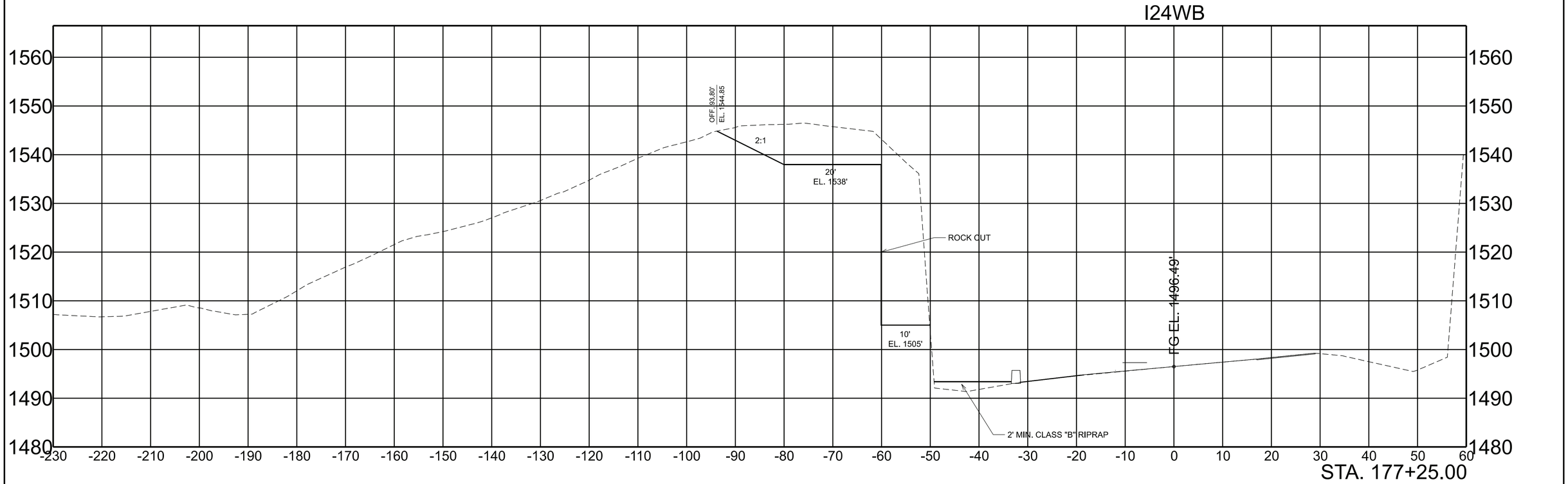
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	34



SCALE:		
	1"=10' HORIZ.	BEGIN STA. 177+00.00
	1"=10' VERT.	END STA. 177+00.00

12/9/2025 2:59:00 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

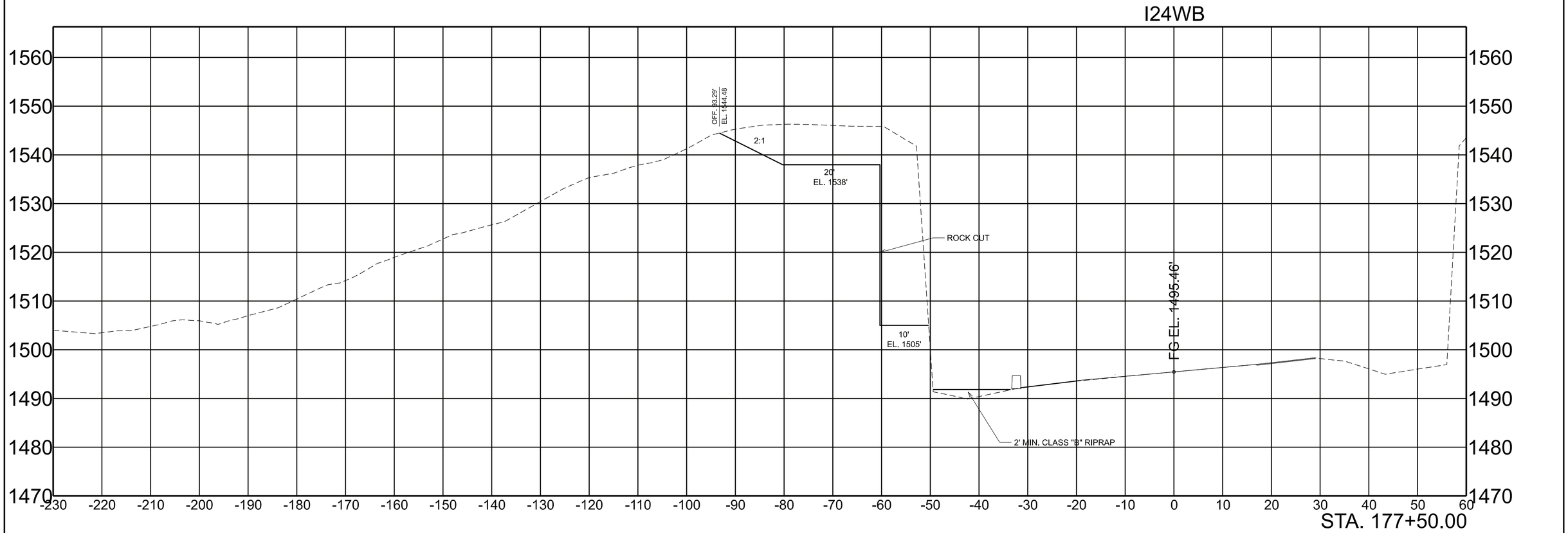
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	35



SCALE:	1"=10' HORIZ.	BEGIN STA. 177+25.00
	1"=10' VERT.	END STA. 177+25.00

12/9/2025 2:59:00 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

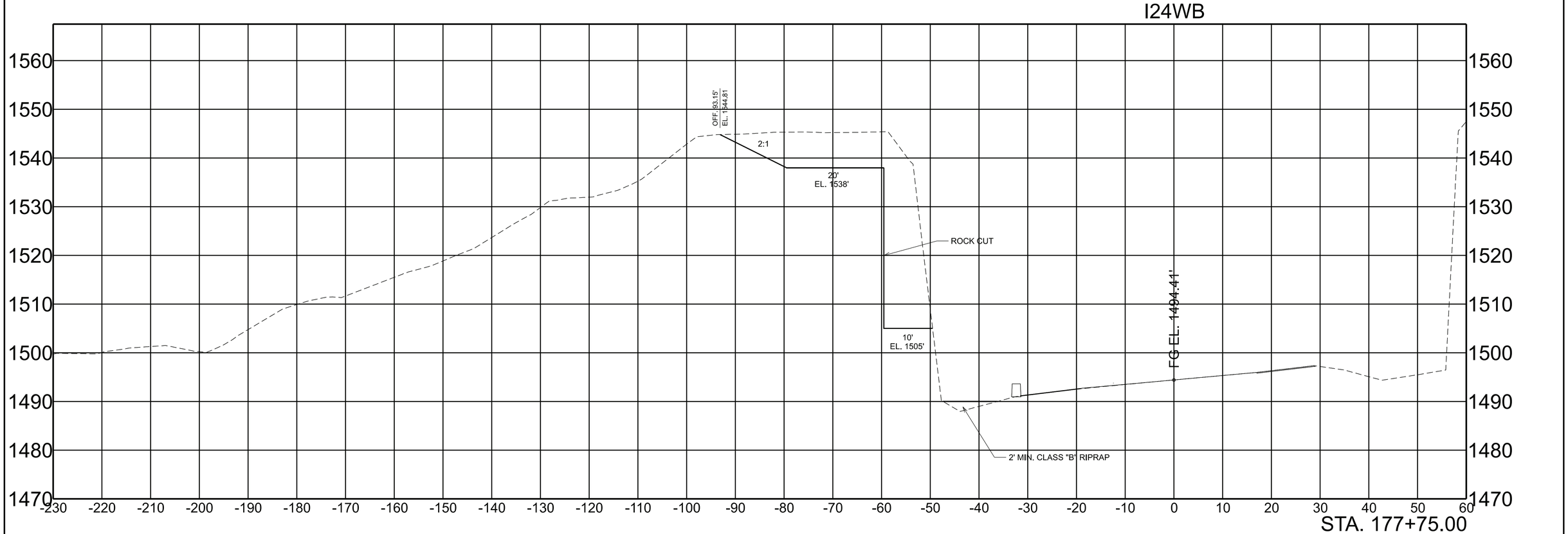
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	36



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 177+50.00 END STA. 177+50.00

12/9/2025 2:59:01 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

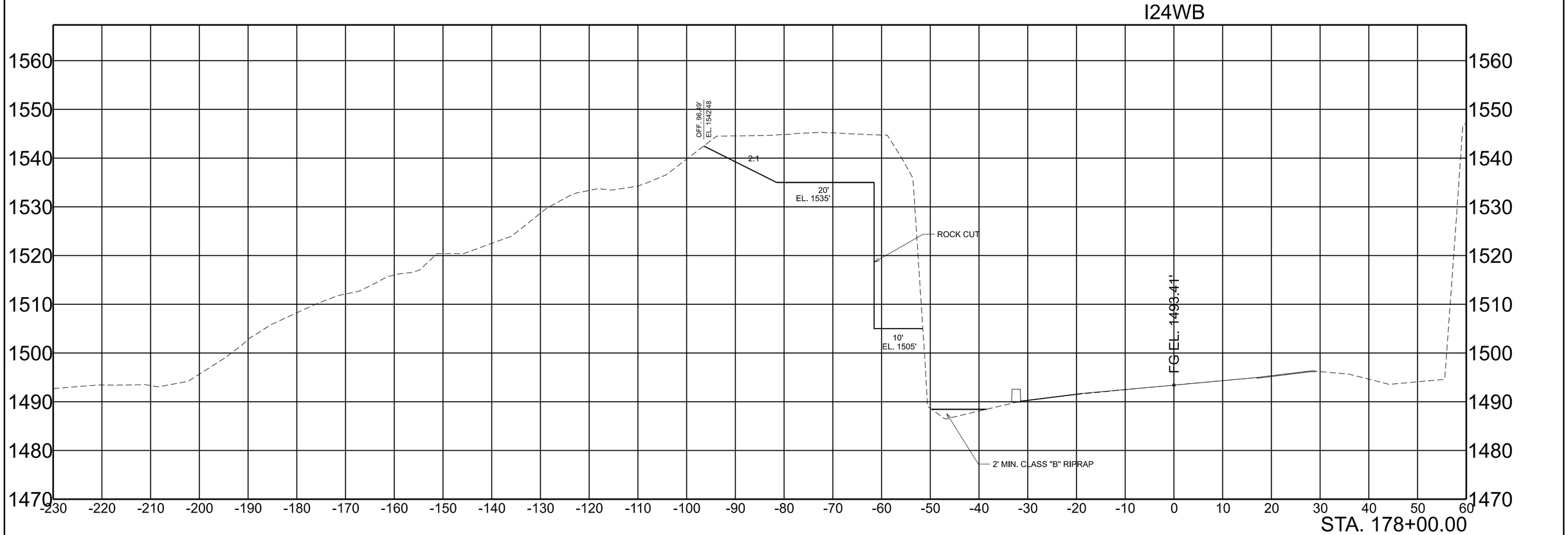
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	37



SCALE:	1"=10' HORIZ.	BEGIN STA. 177+75.00
	1"=10' VERT.	END STA. 177+75.00

12/9/2025 2:59:02 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

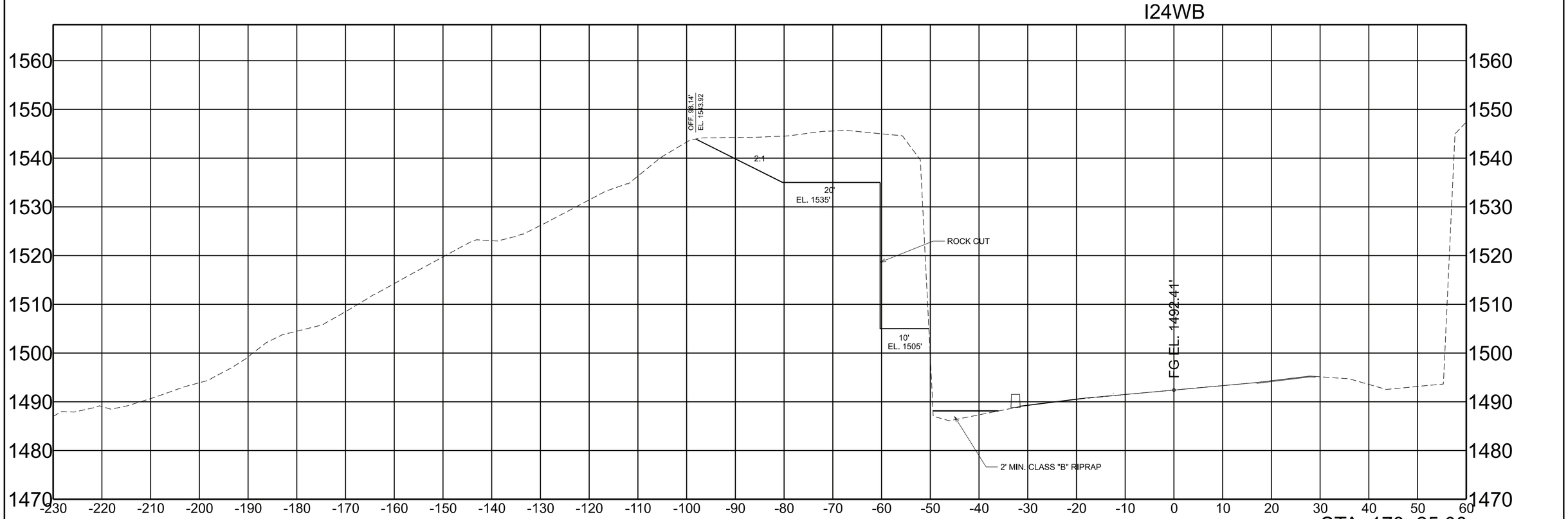
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	38



SCALE:	1"=10' HORIZ.	BEGIN STA. 178+00.00
	1"=10' VERT.	END STA. 178+00.00

12/9/2025 2:59:03 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

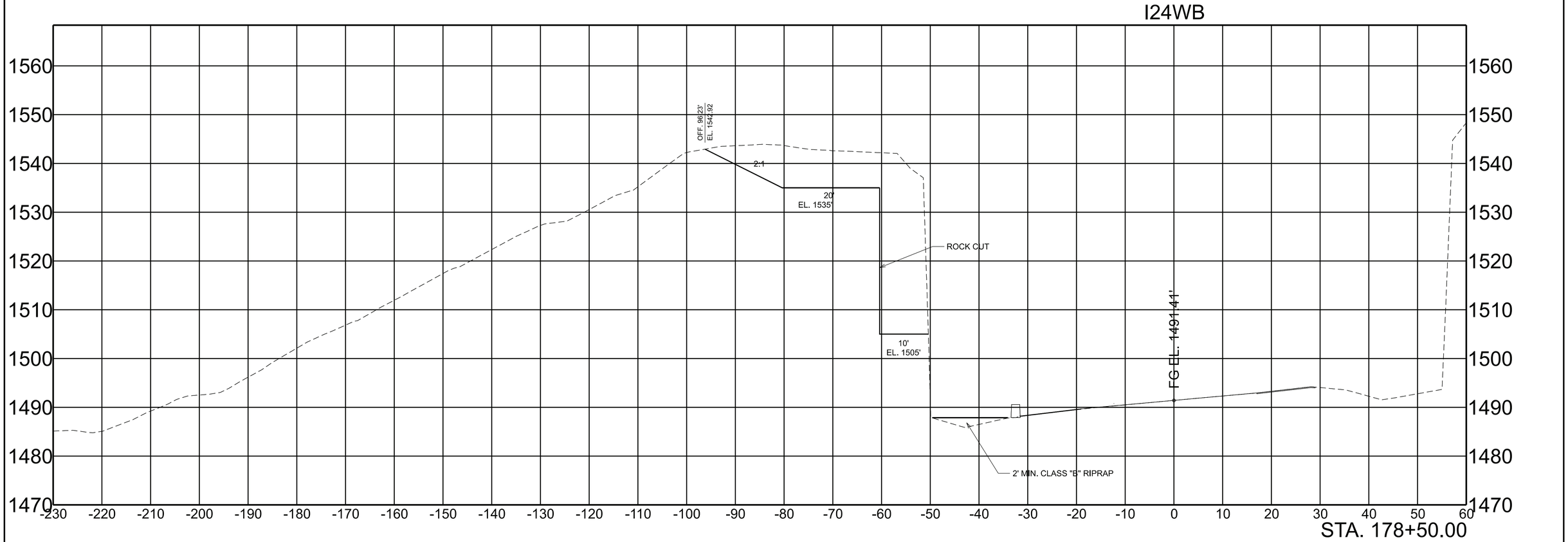
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	39



SCALE:	1"=10' HORIZ.	BEGIN STA. 178+25.00
	1"=10' VERT.	END STA. 178+25.00

12/9/2025 2:59:04 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

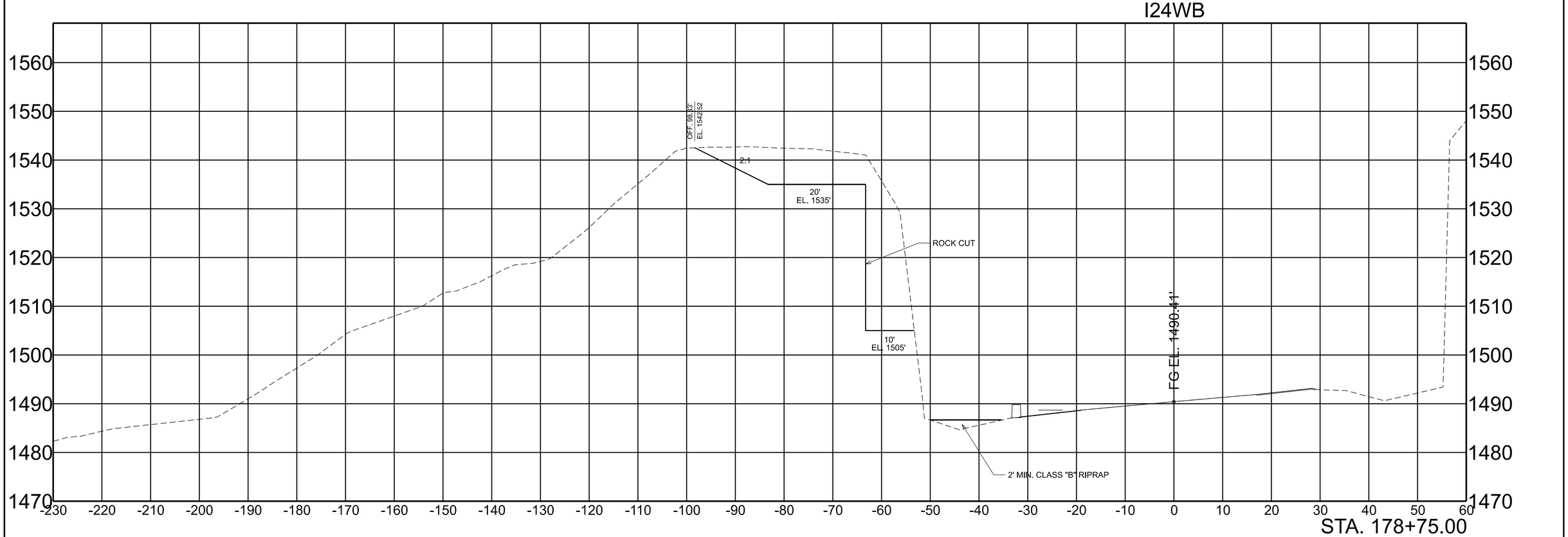
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	40



SCALE:	1"=10' HORIZ.	BEGIN STA. 178+50.00
	1"=10' VERT.	END STA. 178+50.00

12/9/2025 2:59:05 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

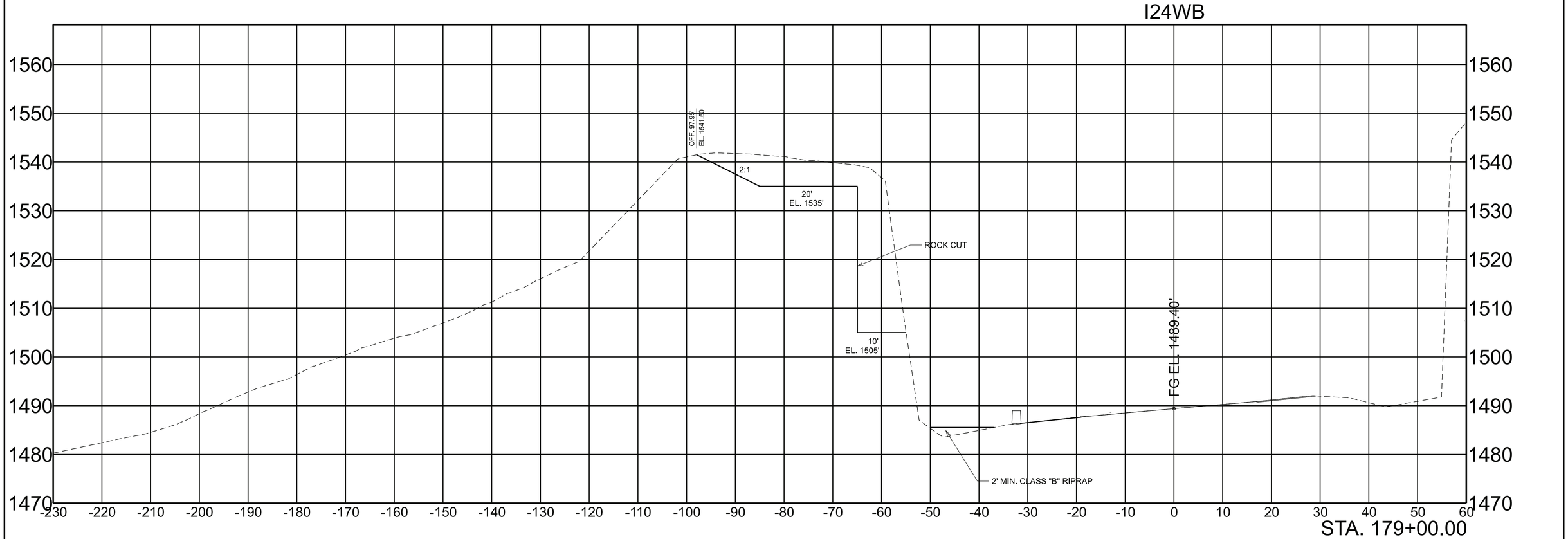
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	41



SCALE:	1"=10' HORIZ.	BEGIN STA. 178+75.00
	1"=10' VERT.	END STA. 178+75.00

12/9/2025 2:59:05 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

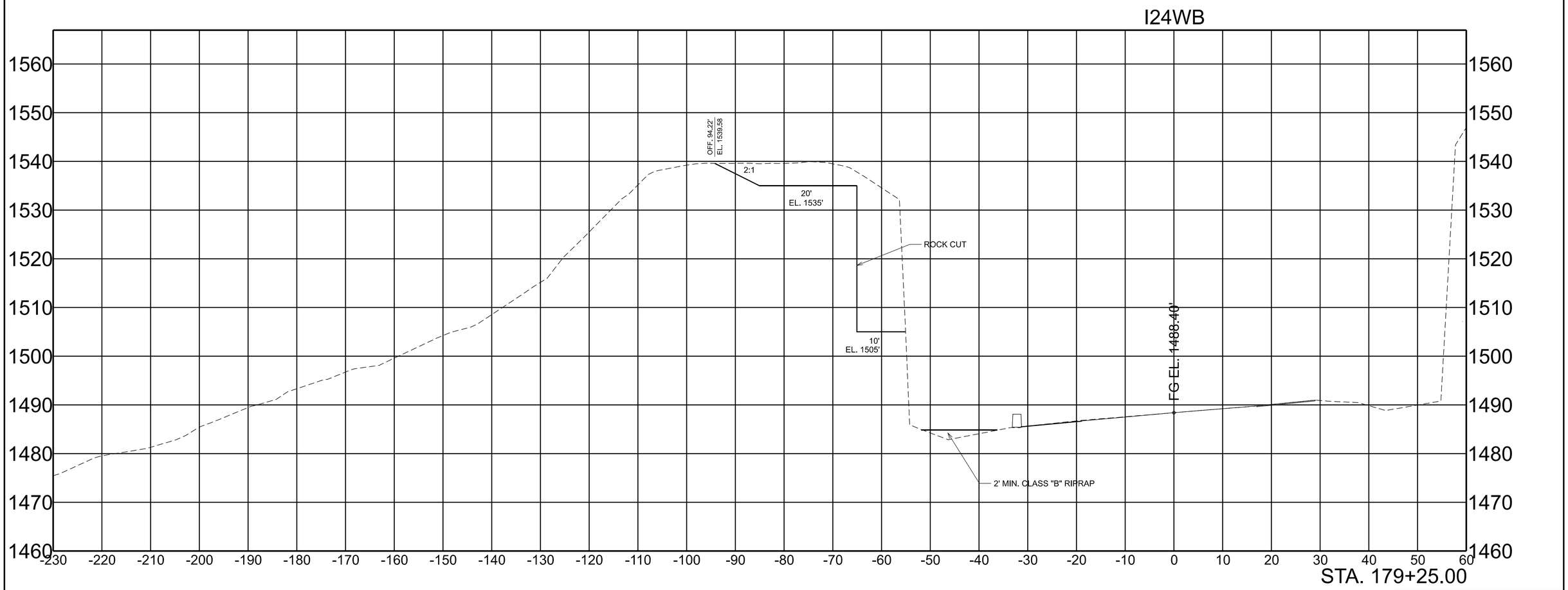
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	42



SCALE:	1"=10' HORIZ.	BEGIN STA. 179+00.00
	1"=10' VERT.	END STA. 179+00.00

12/9/2025 2:59:06 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

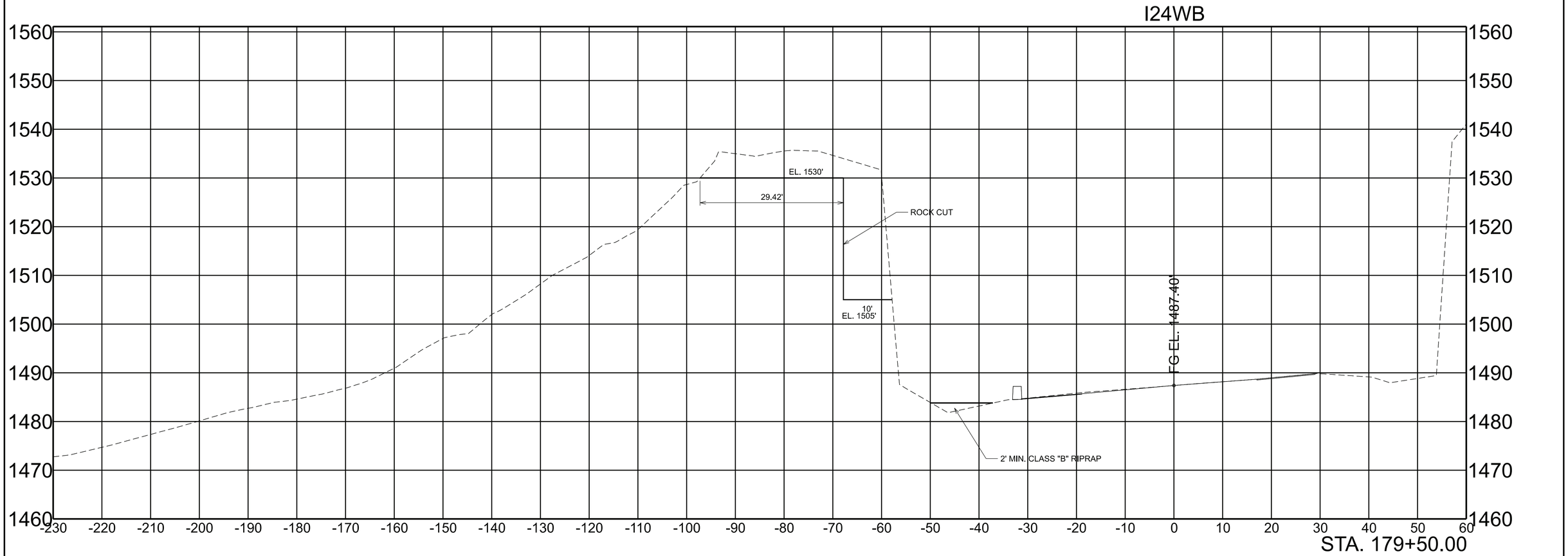
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	43



SCALE:	1"=10' HORIZ.	BEGIN STA. 179+25.00
	1"=10' VERT.	END STA. 179+25.00

12/9/2025 2:59:07 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\SI-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

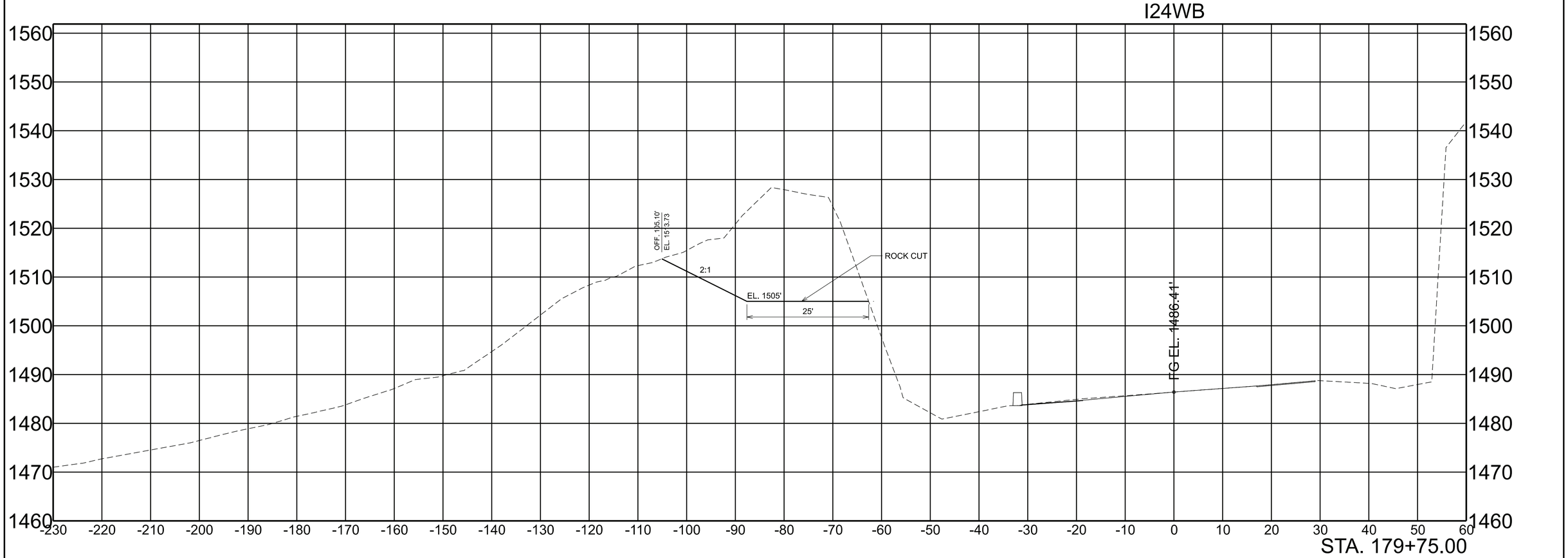
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	44



SCALE:	1"=10' HORIZ.	BEGIN STA. 179+50.00
	1"=10' VERT.	END STA. 179+50.00

12/9/2025 2:59:08 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	45

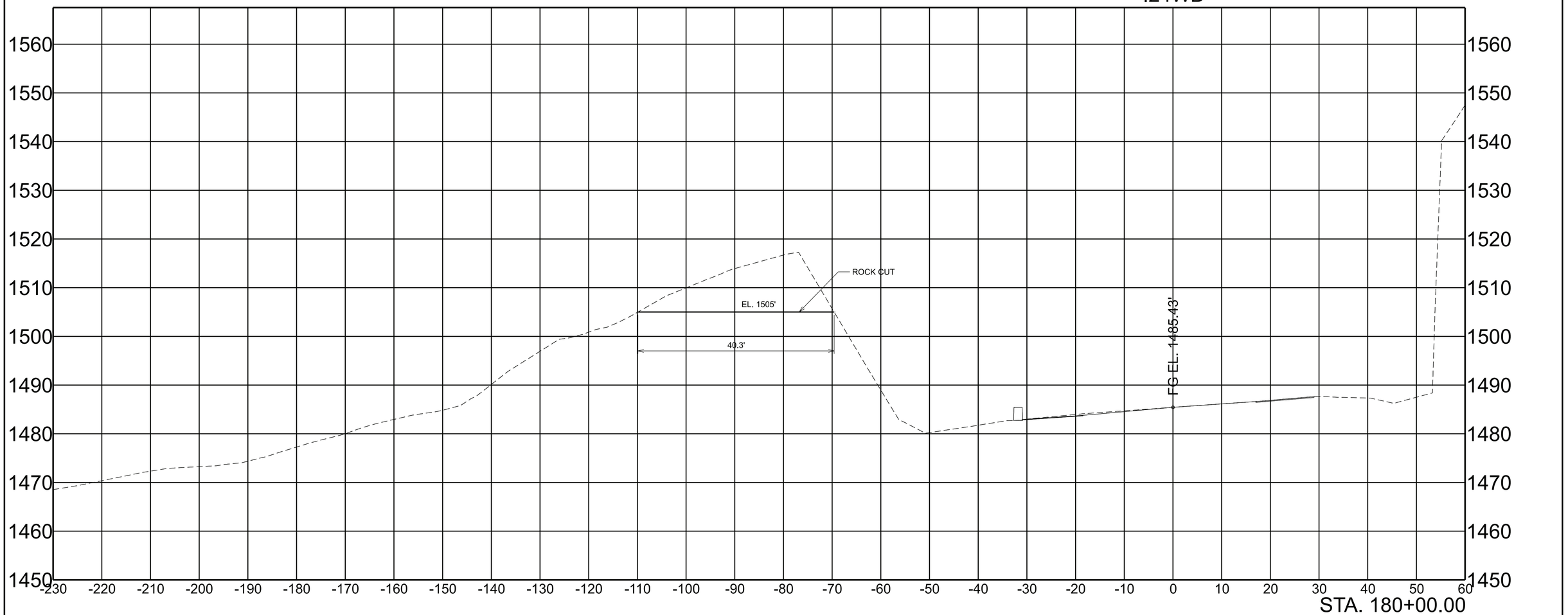


SCALE:	1"=10' HORIZ.	BEGIN STA. 179+75.00
	1"=10' VERT.	END STA. 179+75.00

12/9/2025 2:59:09 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	46

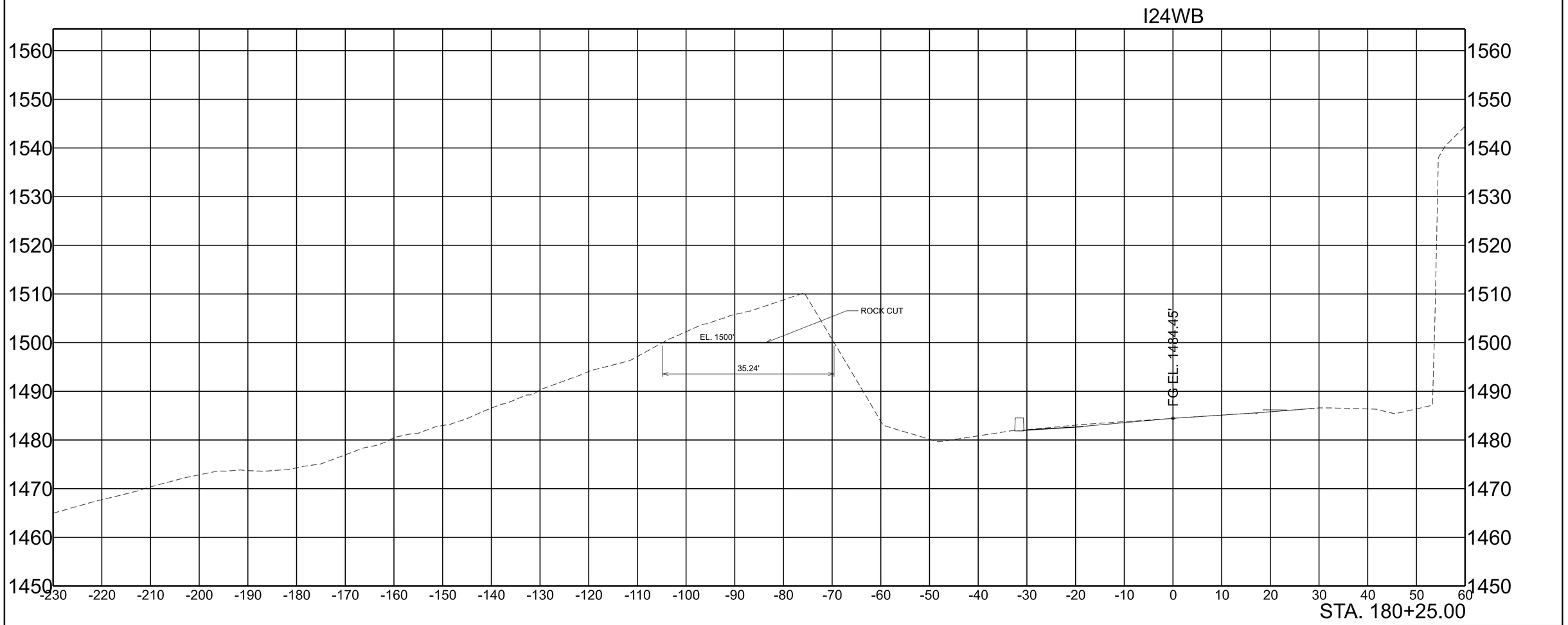
I24WB



SCALE:	1"=10' HORIZ.	BEGIN STA. 180+00.00
	1"=10' VERT.	END STA. 180+00.00

12/9/2025 2:59:10 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

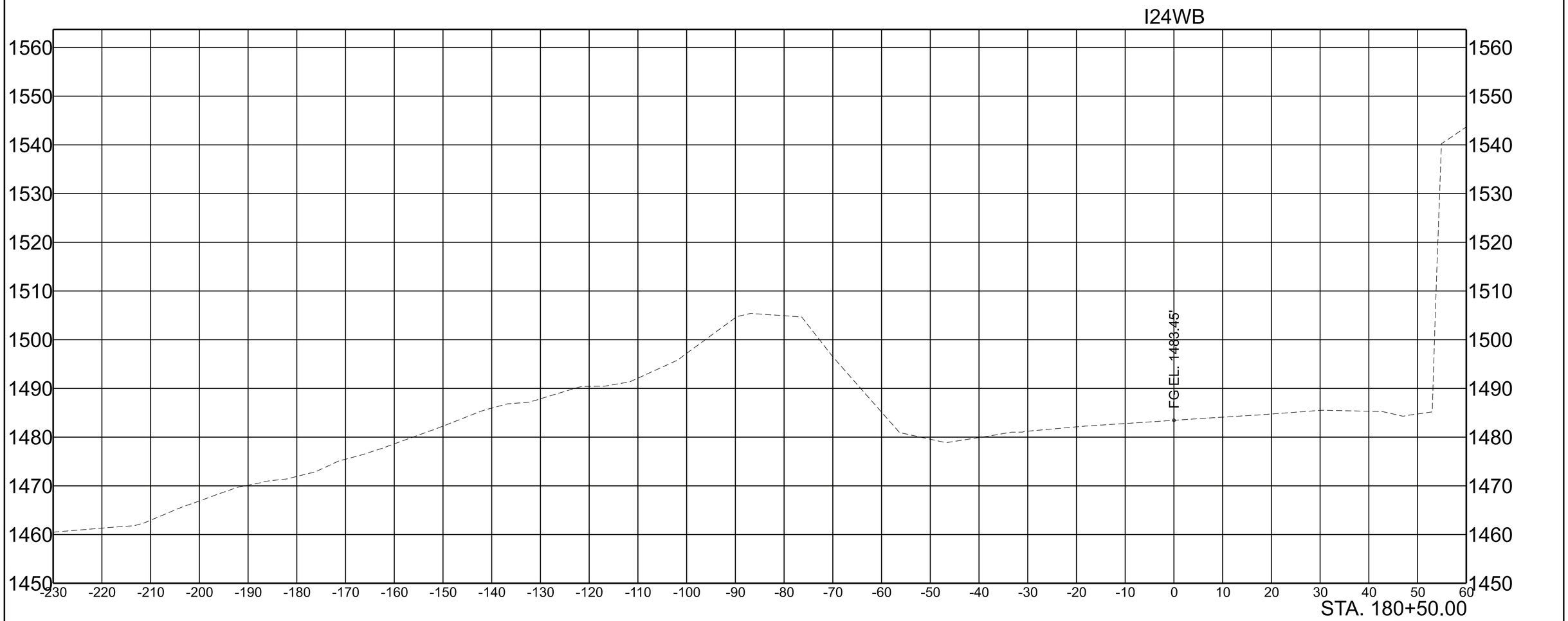
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	47



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 180+25.00 END STA. 180+25.00

12/9/2025 2:59:11 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

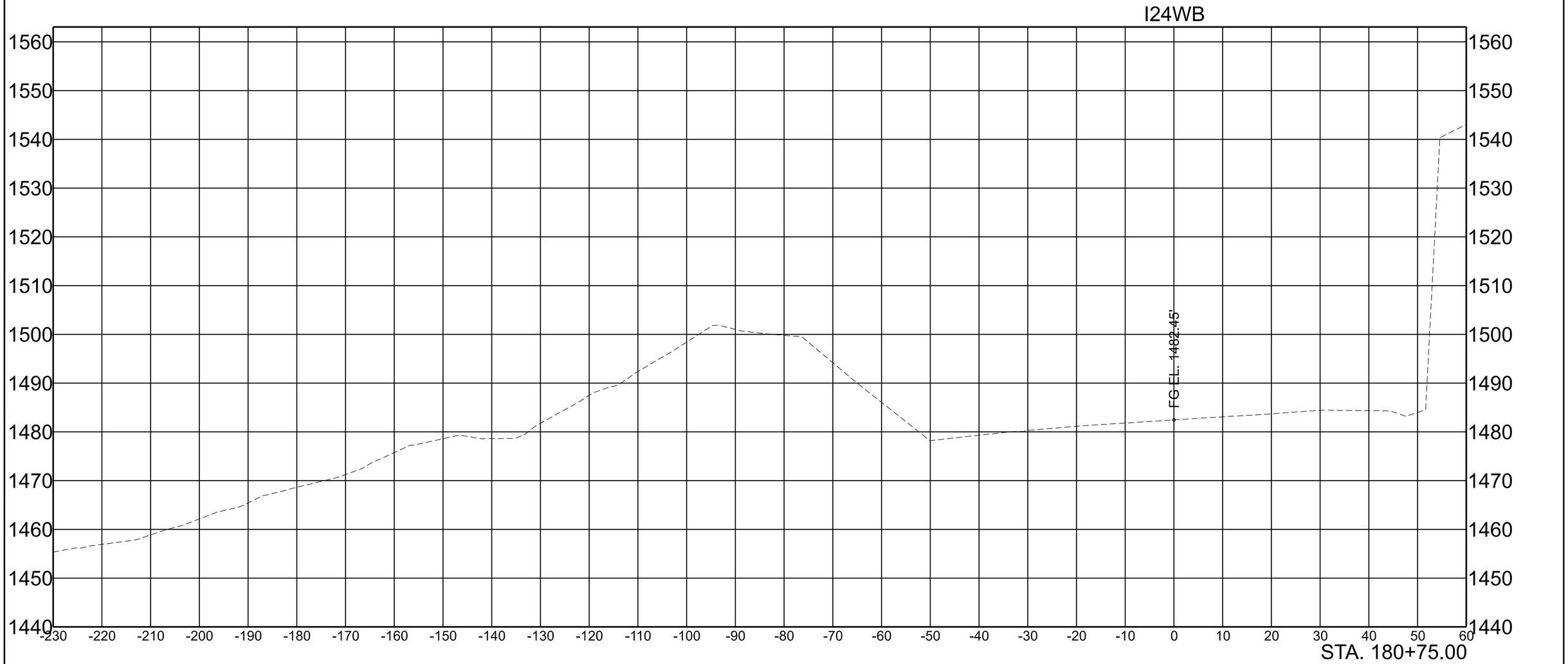
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	48



SCALE:	1"=10' HORIZ.	BEGIN STA. 180+50.00
	1"=10' VERT.	END STA. 180+50.00

12/9/2025 2:59:12 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

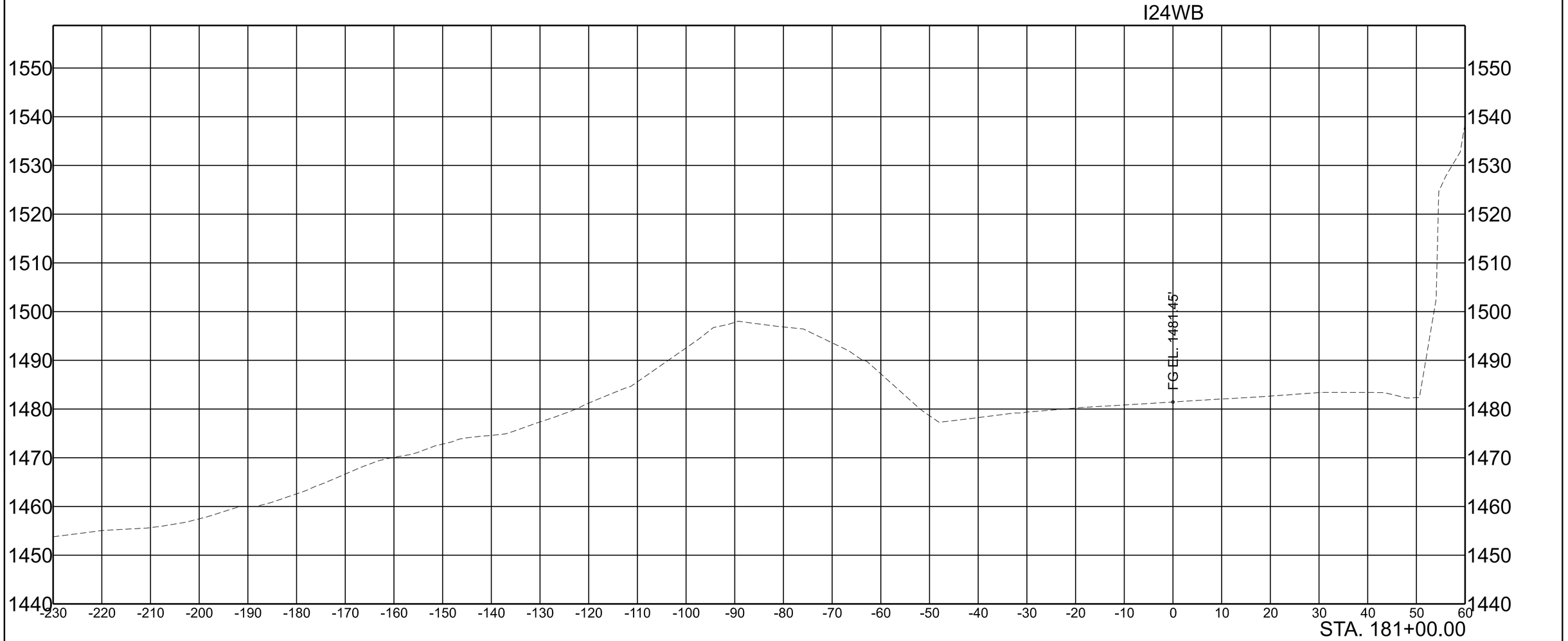
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	49



SCALE:	1"=10' HORIZ.	BEGIN STA. 180+75.00
	1"=10' VERT.	END STA. 180+75.00

12/9/2025 2:59:12 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

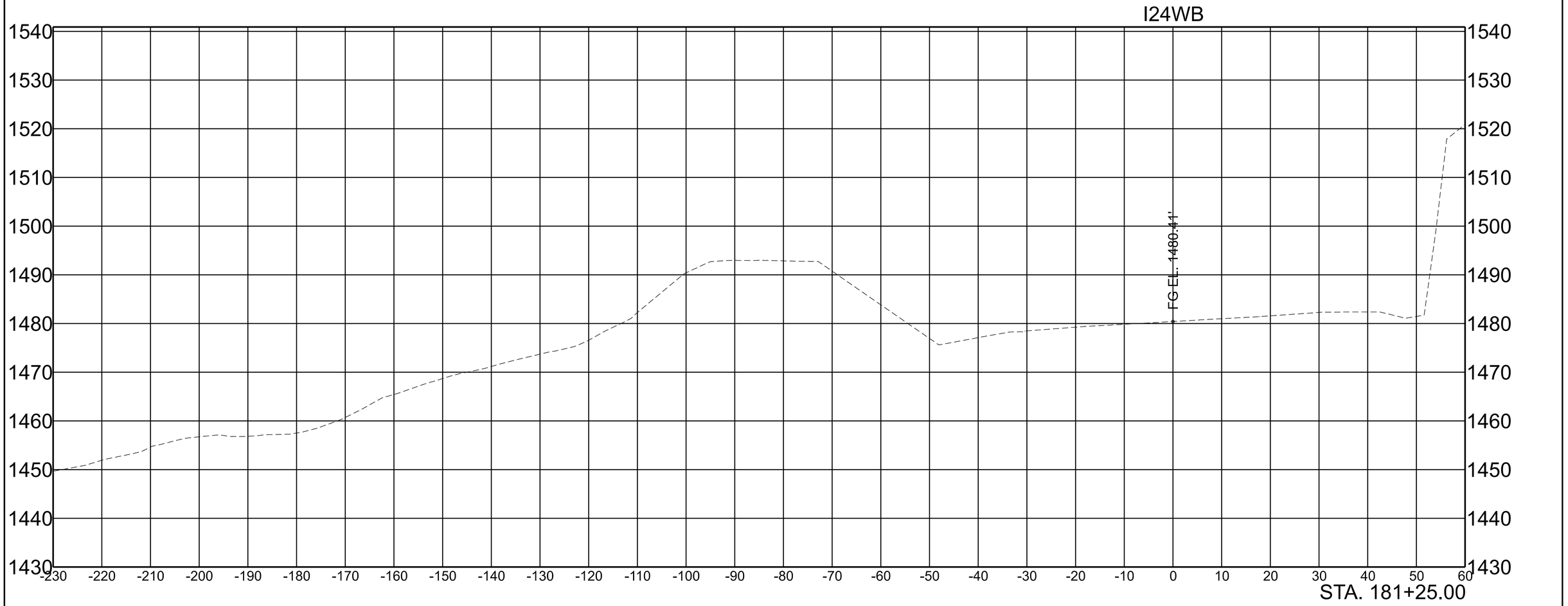
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	50



SCALE:	1"=10' HORIZ.	BEGIN STA. 181+00.00
	1"=10' VERT.	END STA. 181+00.00

12/9/2025 2:59:13 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

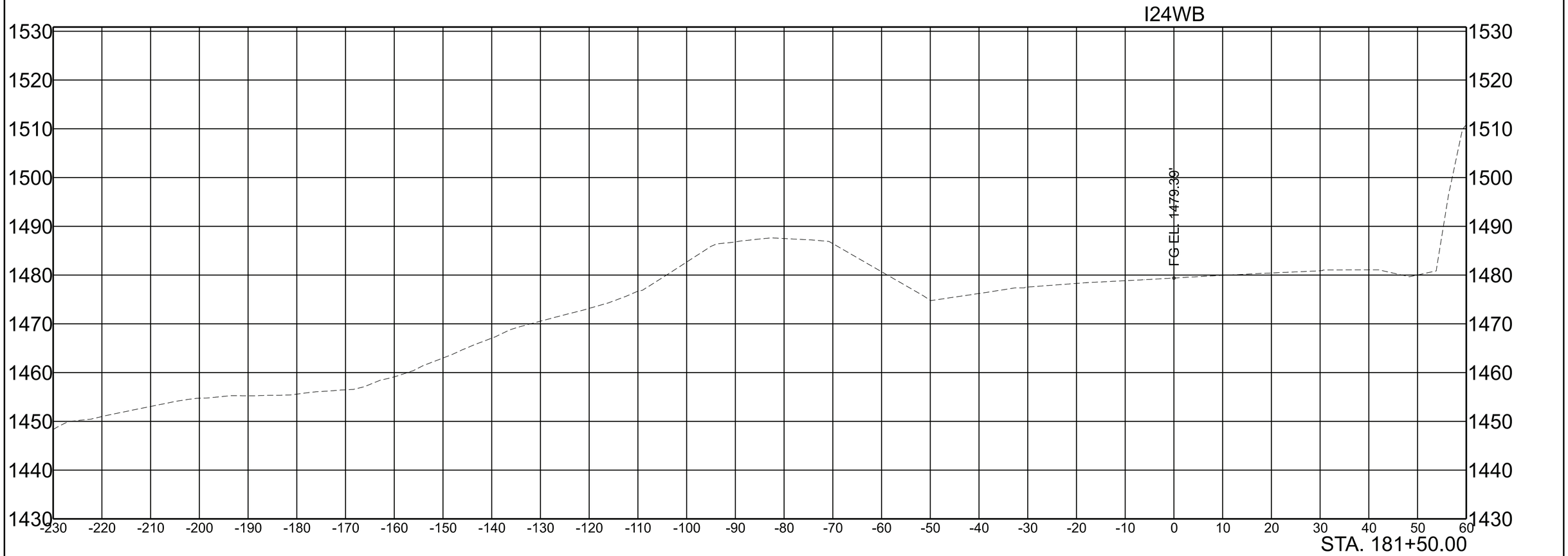
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	51



SCALE:	1"=10' HORIZ.	BEGIN STA. 181+25.00
	1"=10' VERT.	END STA. 181+25.00

12/9/2025 2:59:14 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\IDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

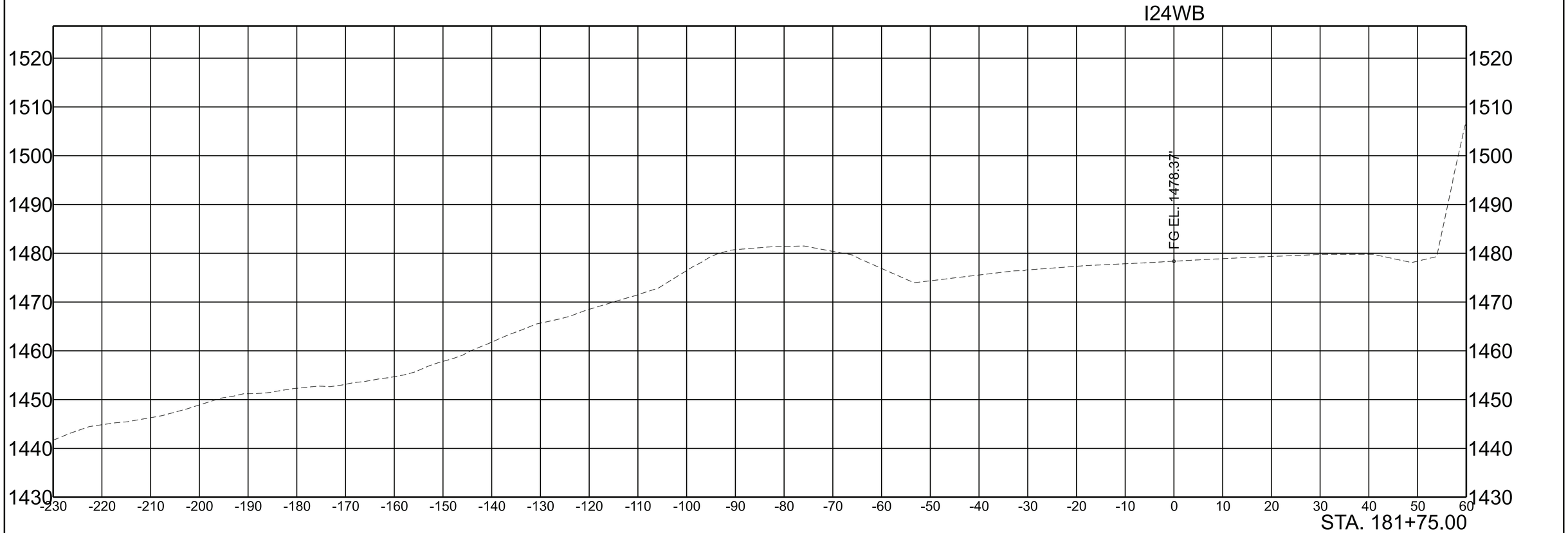
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	52



SCALE:	1"=10' HORIZ.	BEGIN STA. 181+50.00
	1"=10' VERT.	END STA. 181+50.00

12/9/2025 2:59:15 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

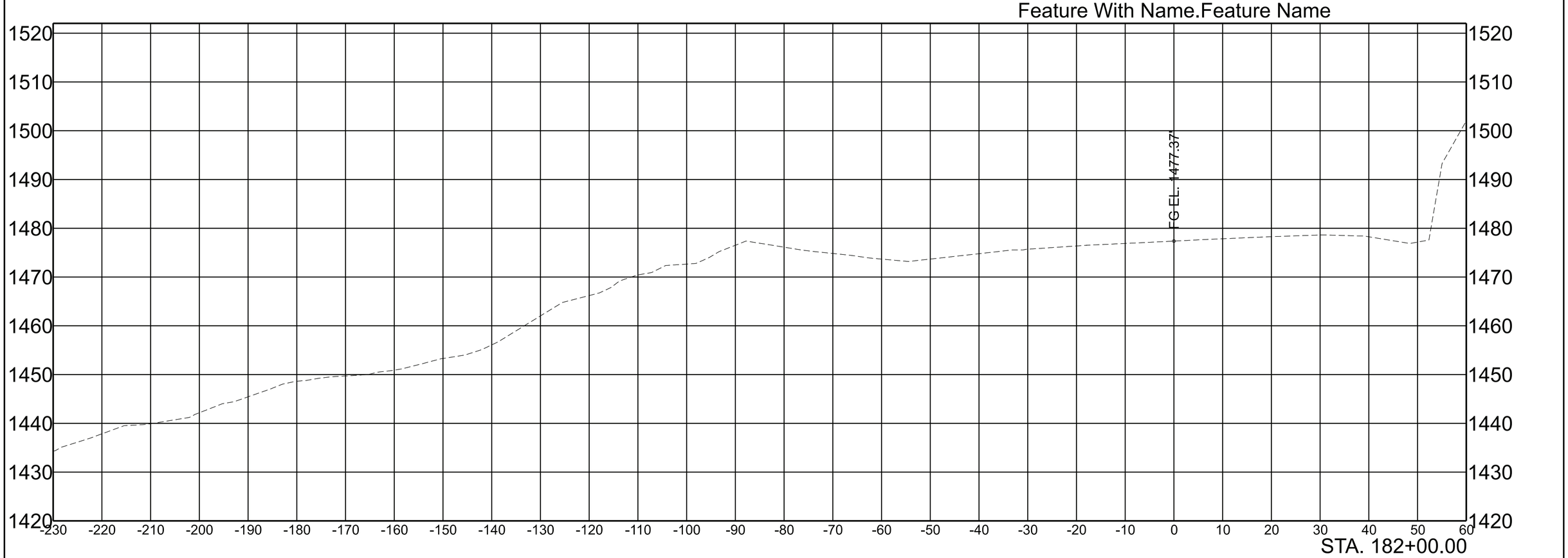
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	53



SCALE:	1"=10' HORIZ.	BEGIN STA. 181+75.00
	1"=10' VERT.	END STA. 181+75.00

12/9/2025 2:59:15 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

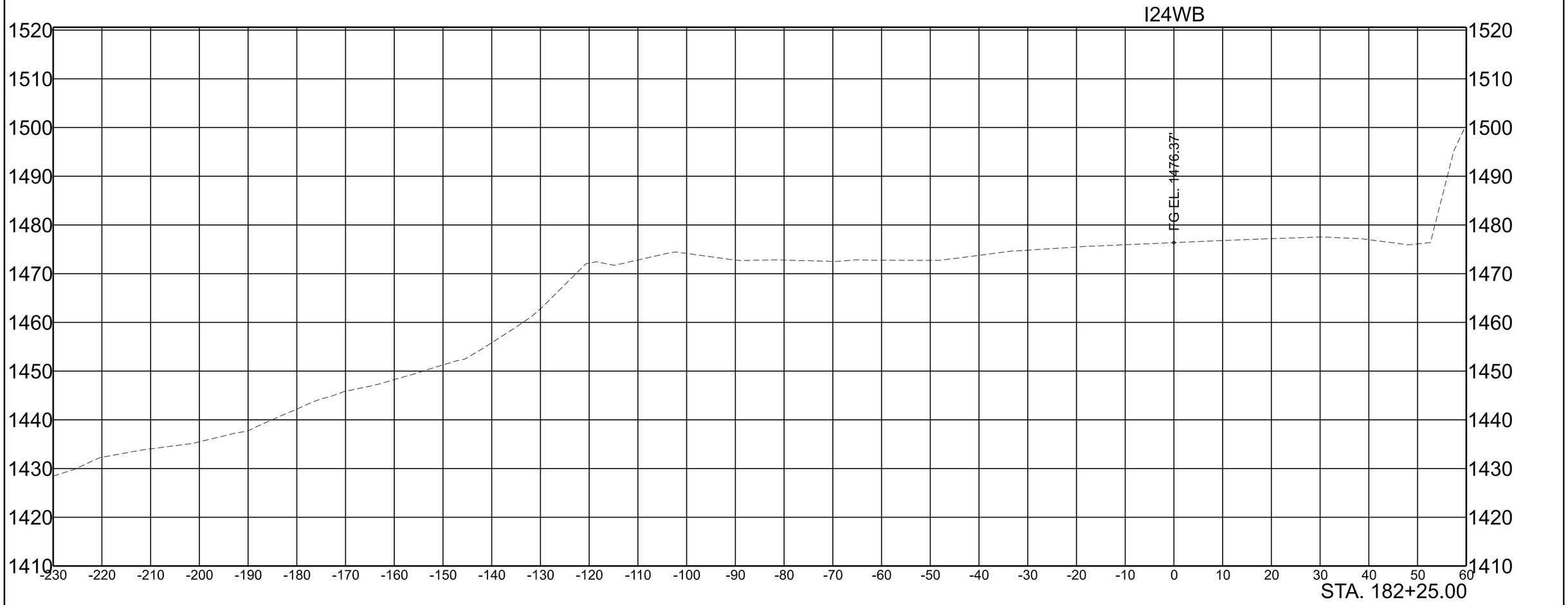
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	54



SCALE:	1"=10' HORIZ.	BEGIN STA. 182+00.00
	1"=10' VERT.	END STA. 182+00.00

12/9/2025 2:59:16 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

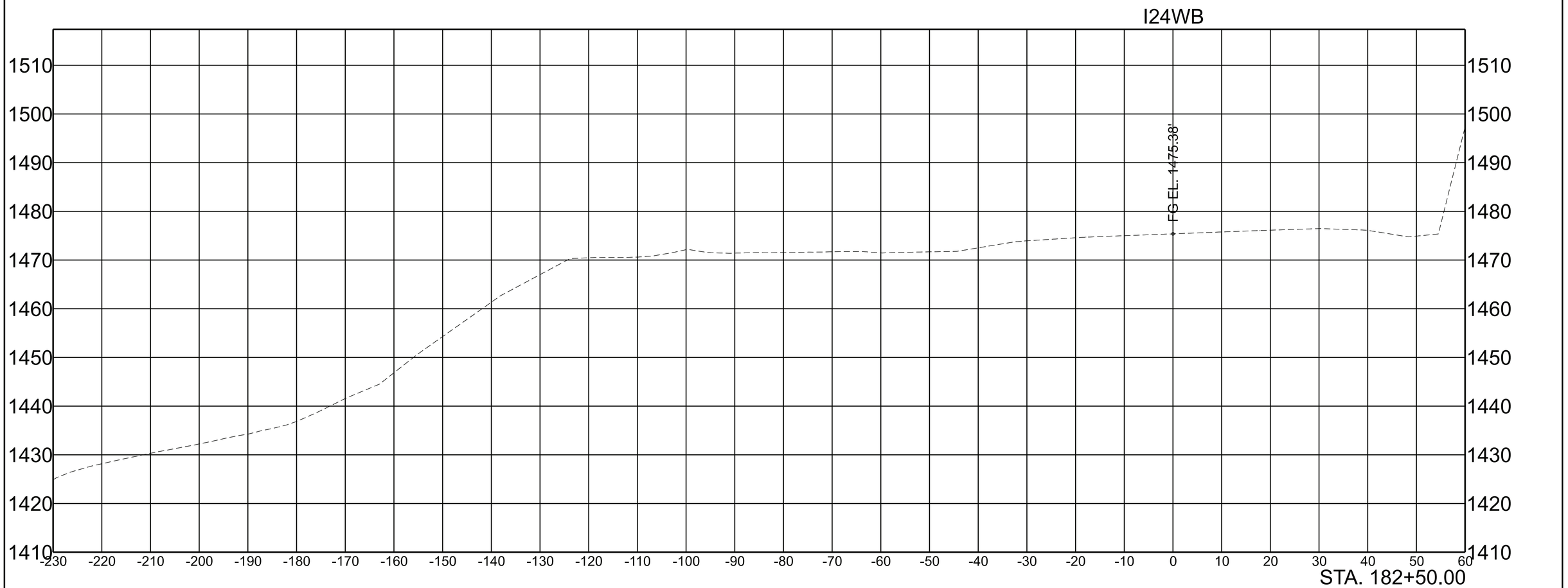
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	55



SCALE:	1"=10' HORIZ.	BEGIN STA. 182+25.00
	1"=10' VERT.	END STA. 182+25.00

12/9/2025 2:59:17 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

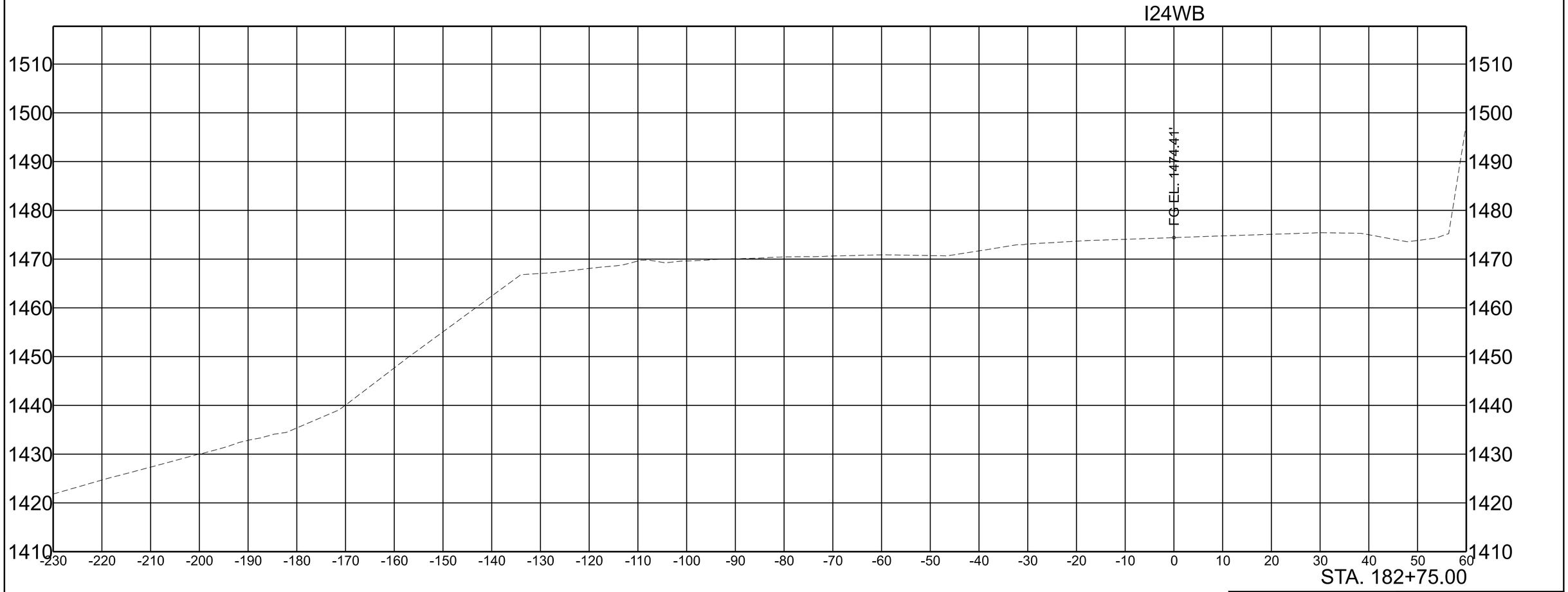
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	56



SCALE:	1"=10' HORIZ.	BEGIN STA. 182+50.00
	1"=10' VERT.	END STA. 182+50.00

12/9/2025 2:59:18 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

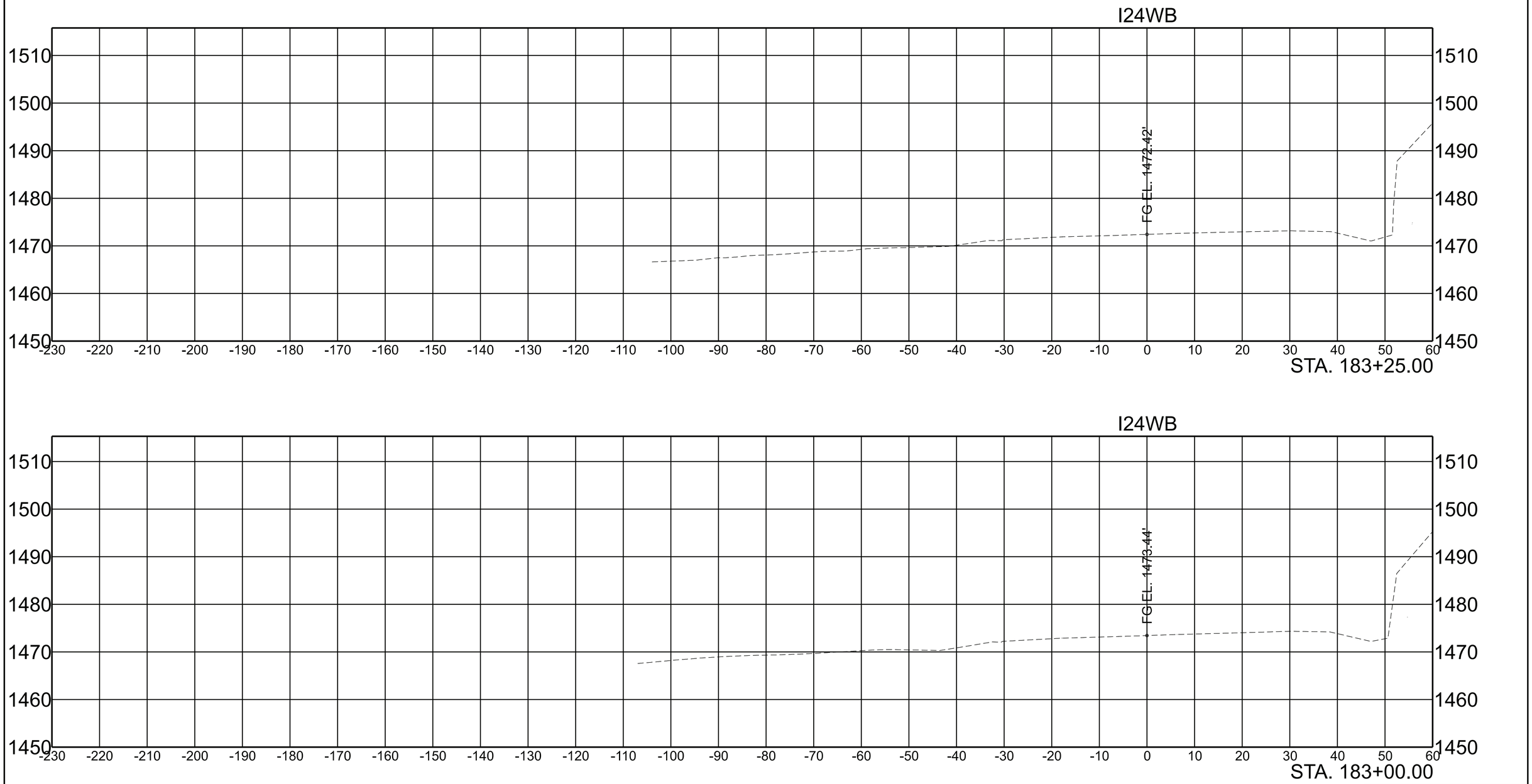
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	57



SCALE:	1"=10' HORIZ.	BEGIN STA. 182+75.00
	1"=10' VERT.	END STA. 182+75.00

12/9/2025 2:59:19 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

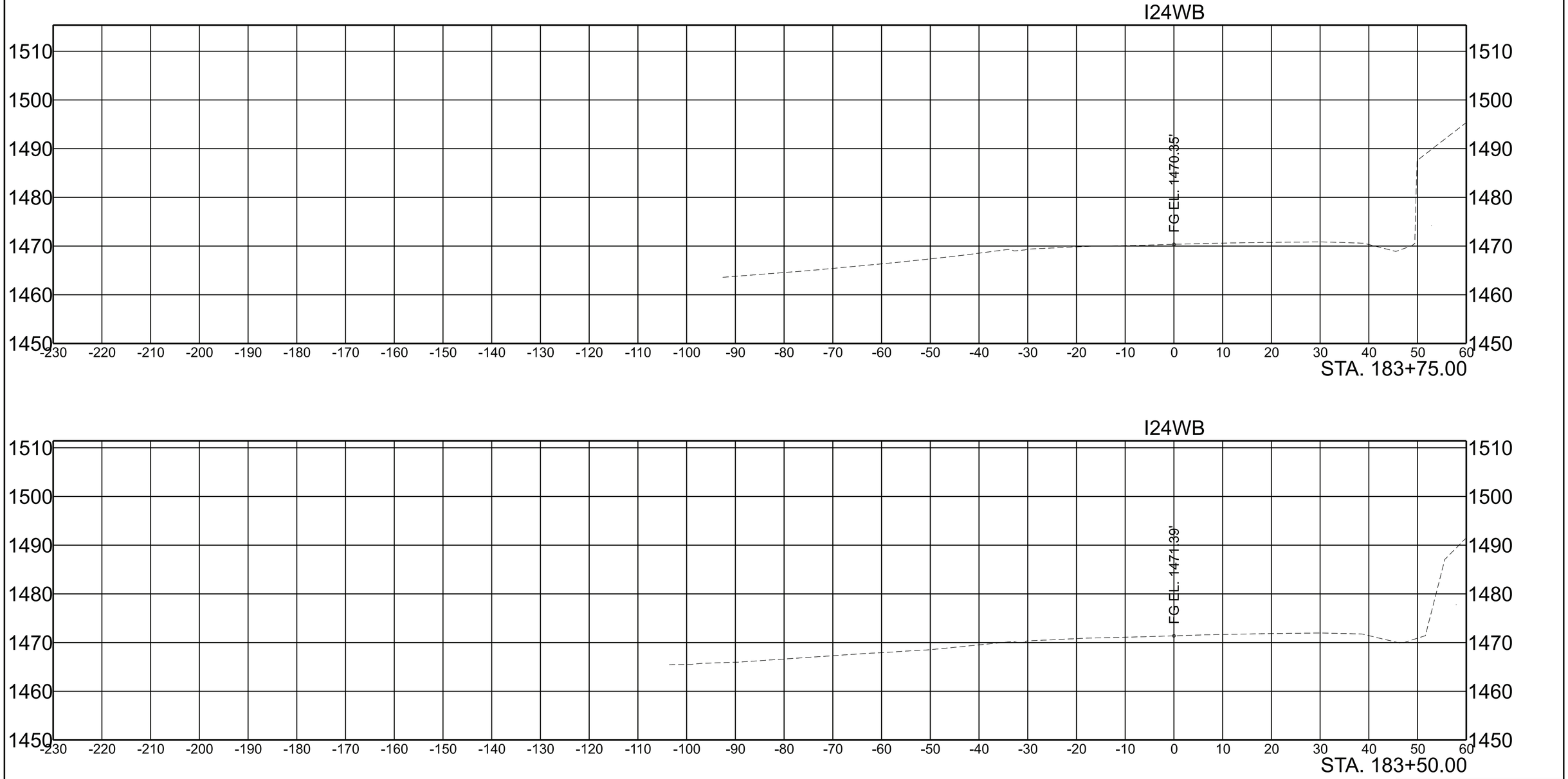
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	58



SCALE:	1"=10' HORIZ.	BEGIN STA. 183+00.00
	1"=10' VERT.	END STA. 183+25.00

12/9/2025 2:59:19 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

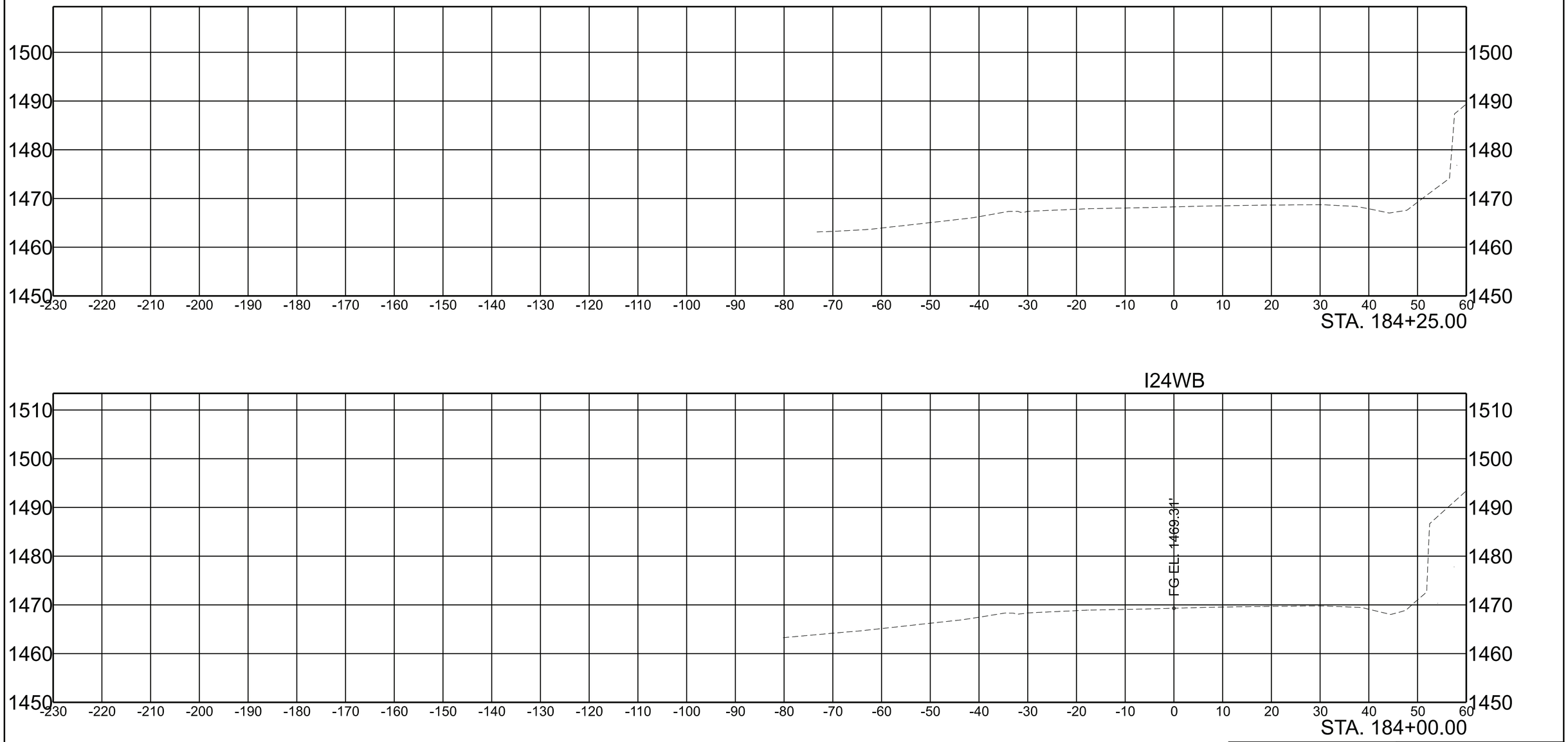
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	59



SCALE:		
	1"=10' HORIZ.	BEGIN STA. 183+50.00
	1"=10' VERT.	END STA. 183+75.00

12/9/2025 2:59:20 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\IDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

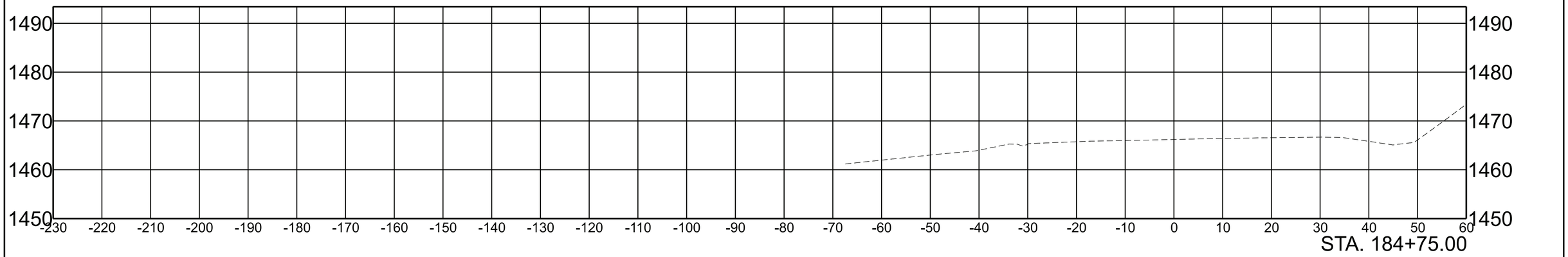
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	60



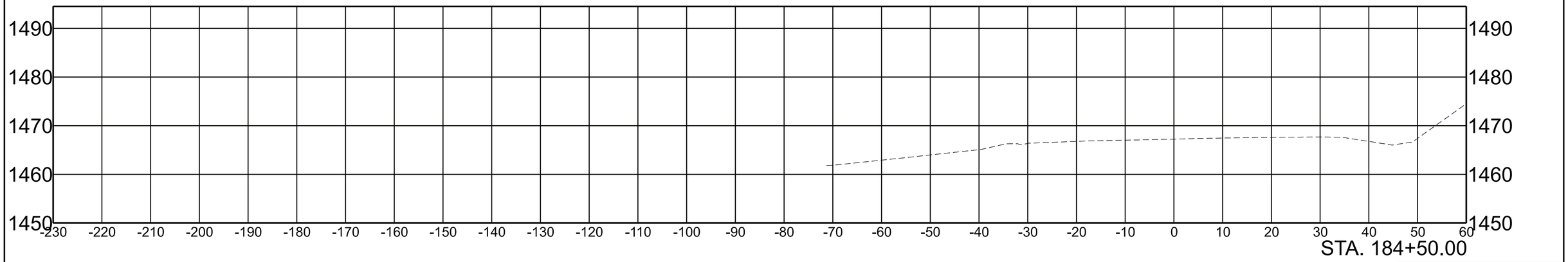
SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 184+00.00 END STA. 184+25.00

12/9/2025 2:59:21 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDSWORKSET\SII-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	61



STA. 184+75.00

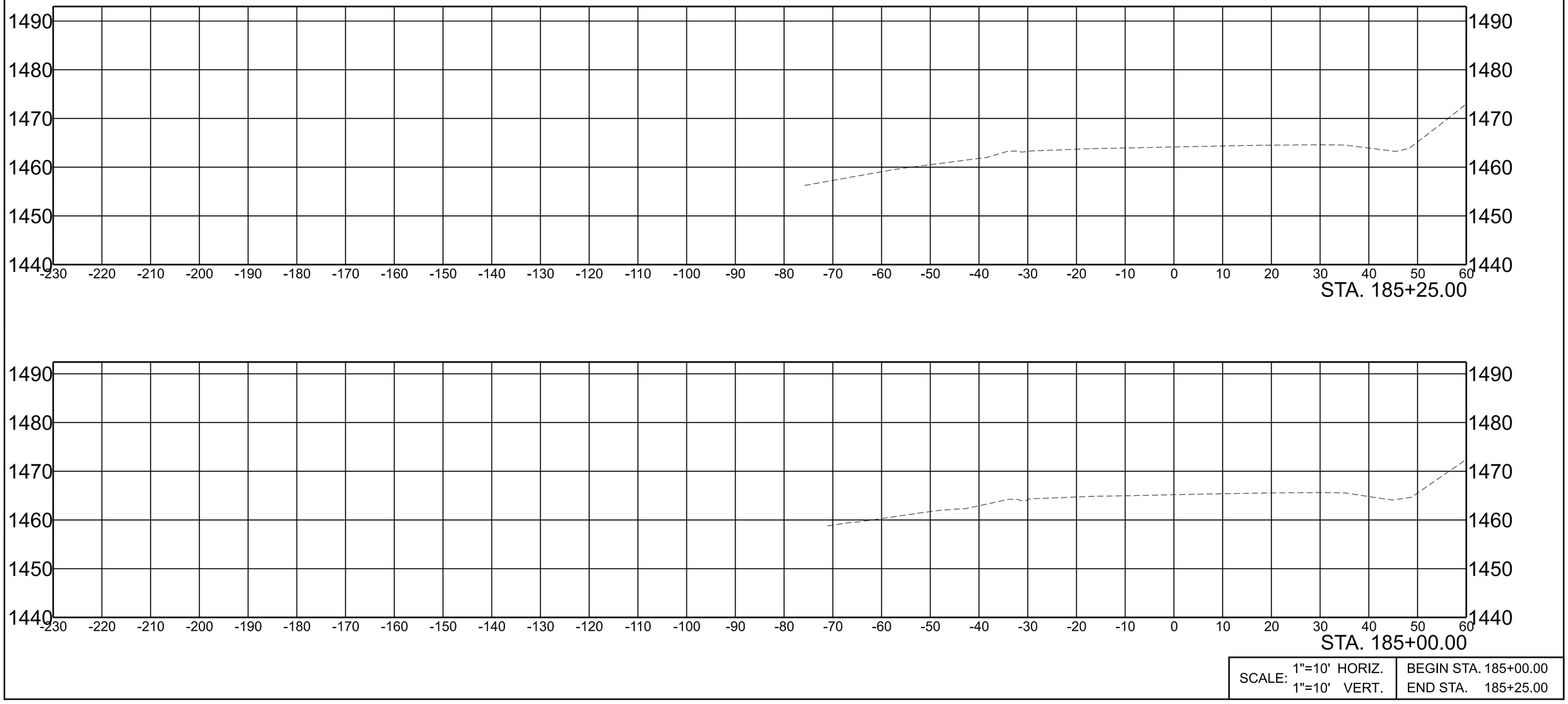


STA. 184+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 184+50.00
	1"=10' VERT.	END STA. 184+75.00

12/9/2025 2:59:22 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\II-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

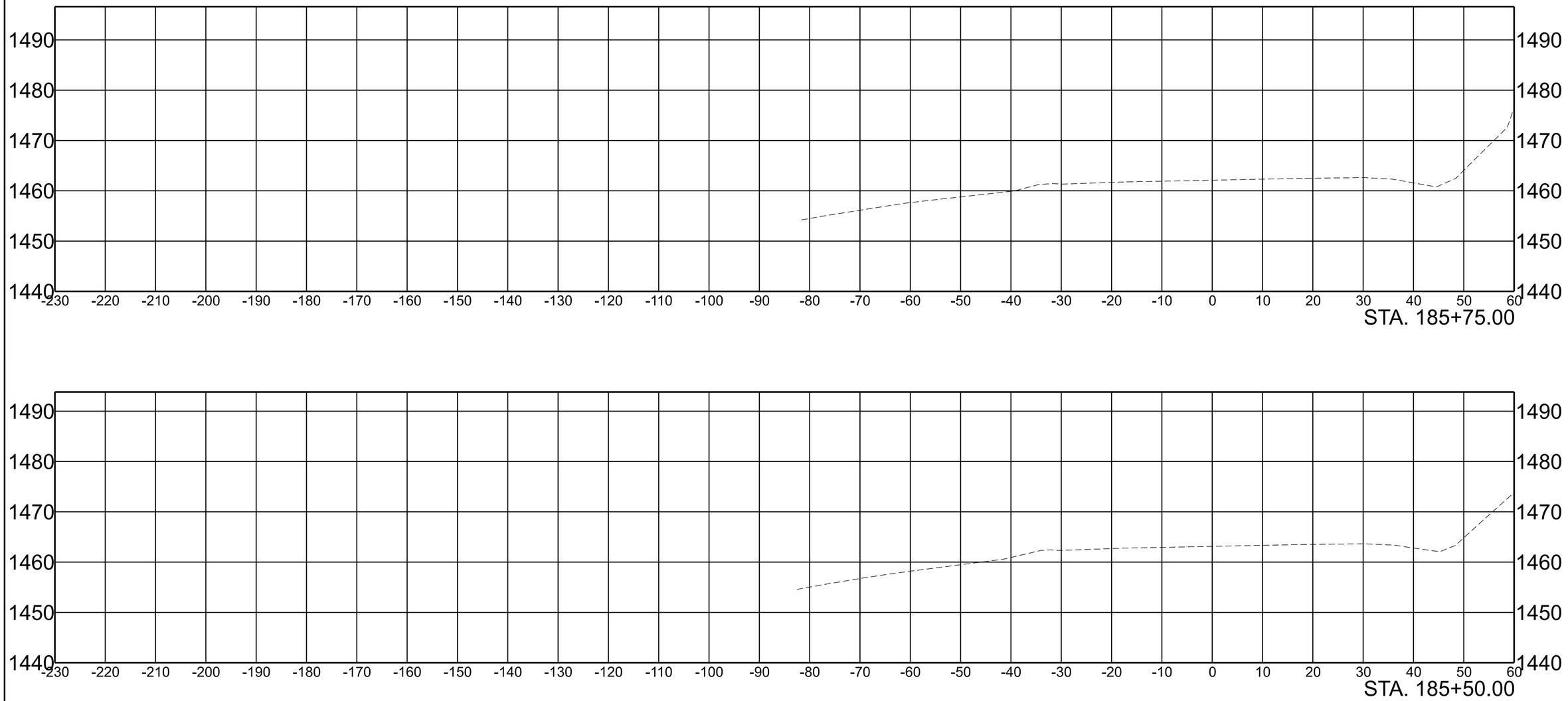
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	62



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 185+00.00 END STA. 185+25.00

12/9/2025 2:59:23 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

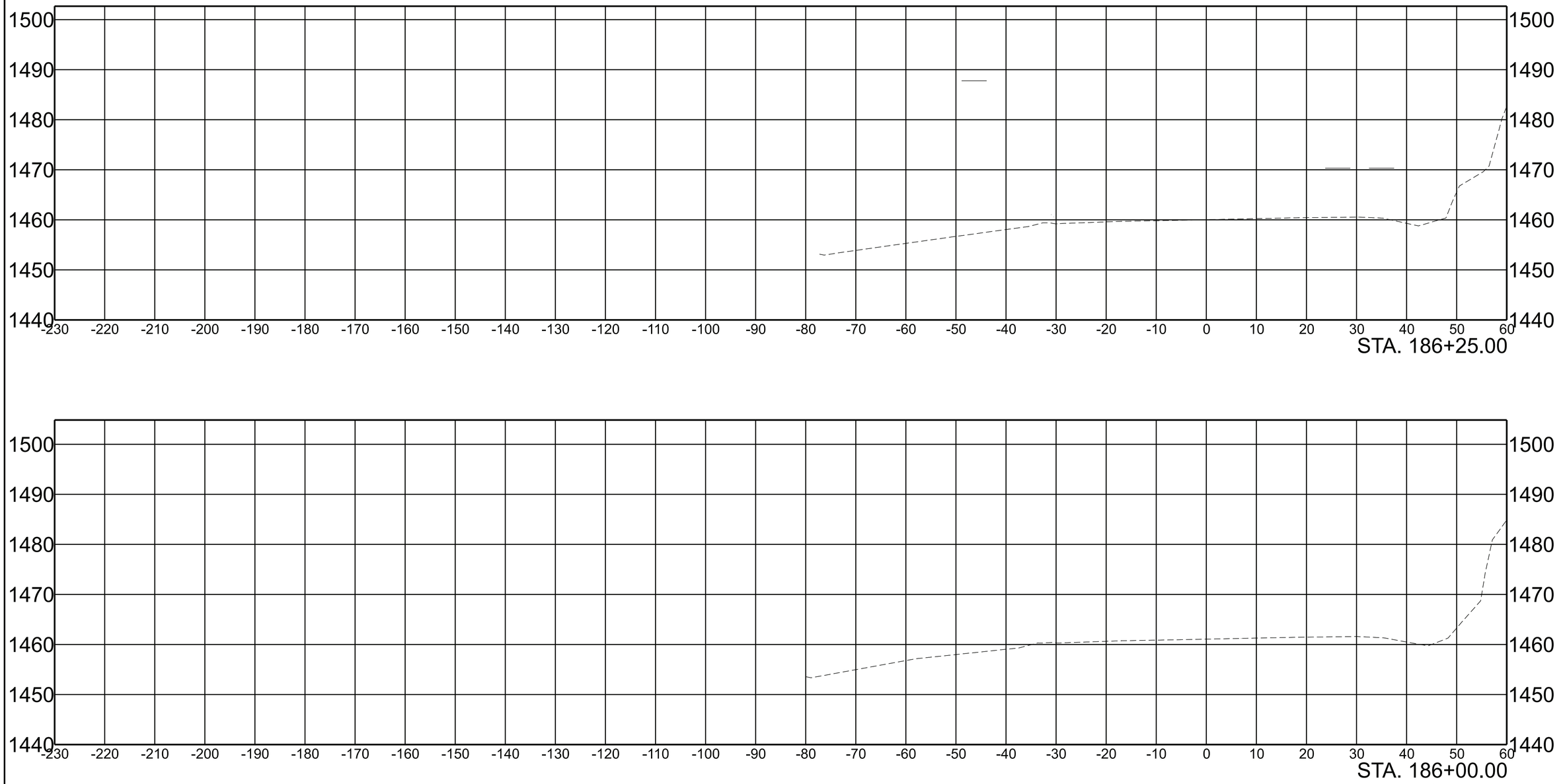
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	63



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 185+50.00 END STA. 185+75.00

12/9/2025 2:59:24 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETSII-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

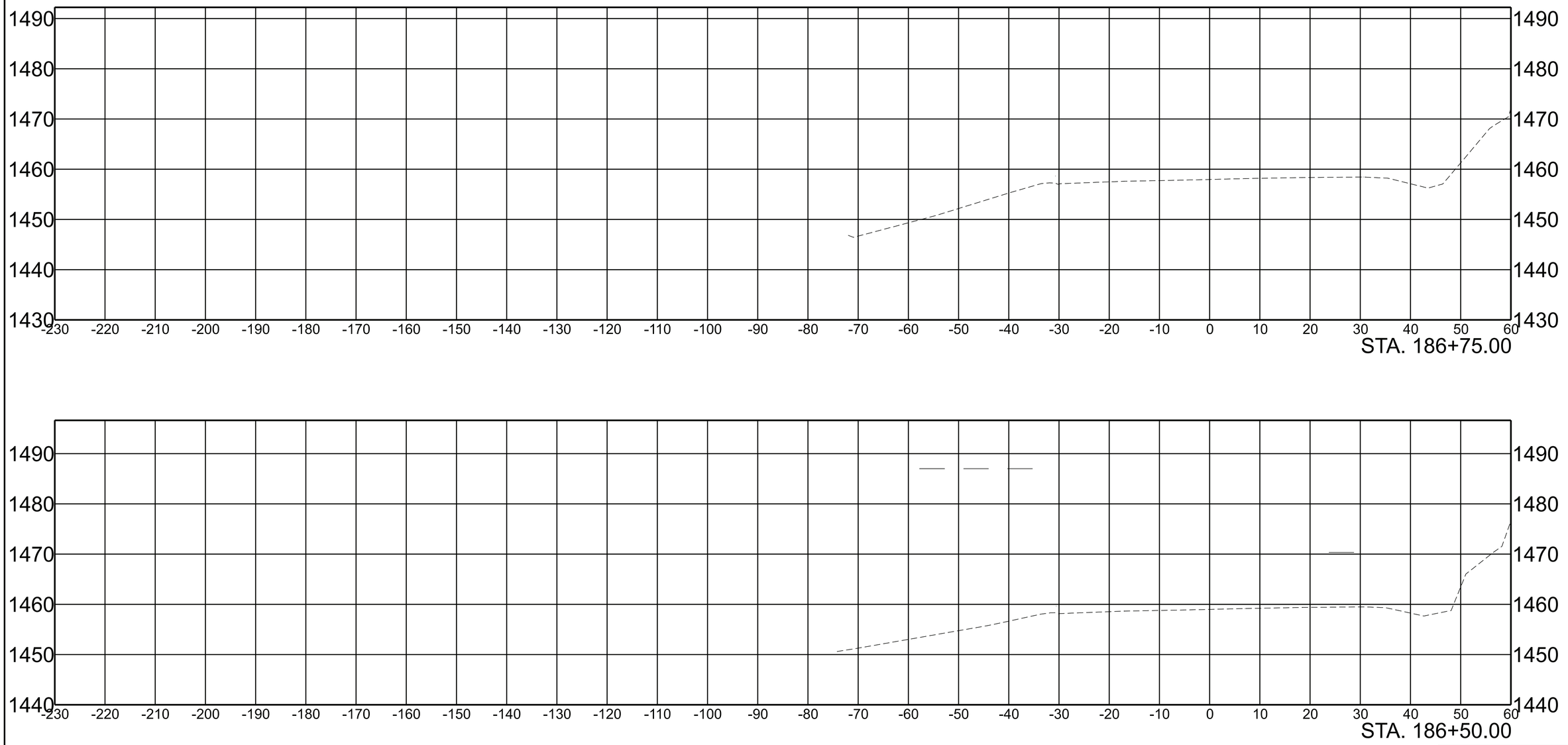
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	64



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 186+00.00 END STA. 186+25.00

12/9/2025 2:59:25 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

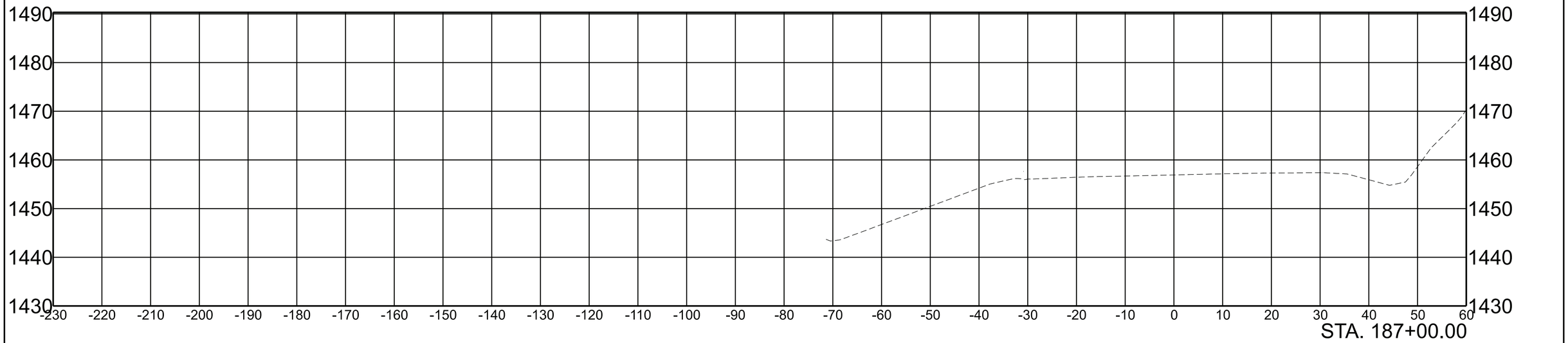
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	65



SCALE:	1"=10' HORIZ.	BEGIN STA. 186+50.00
	1"=10' VERT.	END STA. 186+75.00

12/9/2025 2:59:26 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	66



SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 187+00.00 END STA. 187+00.00

12/9/2025 2:59:27 PM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETSII-24 SLIDE REPAIR\DGN\MA024-02-DES-I24-CROSS SECTIONS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	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.

SEALED BY

12-10-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE & DROP-OFF NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T2

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	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
W20-1	ROADWORK 3 MILES	48"		48"	16	2	2	2	32.00		
W20-1	ROADWORK 2 MILES	48"		48"	16	2	2	2	32.00		
W20-1	RIGHT LANE CLOSED 1 MILE	48"		48"	16	2		2	32.00	T-WZ-11	
W20-5R	RIGHT LANE CLOSED 1/2 MILE	48"		48"	16	2		2	32.00	T-WZ-11	
W20-5R	RIGHT LANE CLOSED 1500 FT	48"		48"	16	2		2	32.00	T-WZ-11	
W4-2R	LANE ENDS (RIGHT)	48"		48"	16	2		2	32.00	T-WZ-11	
W1-4BL	TWO LANE SHIFT (LEFT)	48"		48"	16	2		2	32.00	T-WZ-16	
R4-9	STAY IN LANE	48"		60"	20	2		2	40.00	T-WZ-16	
W1-4BR	TWO LANE SHIFT (RIGHT)	48"		48"	16	2		2	32.00	T-WZ-16	
G20-2	END ROAD WORK	48"		24"	8	2	2	2	16.00	T-WZ-16	
W20-1	ROAD WORK AHEAD	48"		48"	16		2	2	32.00	T-WZ-60	
W8-11	UNEVEN LANES	48"		48"	16		2	2	32.00	T-WZ-60	
W8-15	GROOVED PAVEMENT	48"		48"	16		2	2	32.00	T-WZ-60	
W8-15aP	MOTORCYCLE PLAQUE	30"		24"	5		2	2	10.00	T-WZ-60	
W8-17	SHOULDER DROP-OFF (SYMBOL)	48"		48"	16		2	2	32.00	T-WZ-60	
W8-17P	SHOULDER DROP-OFF (WORDS)	30"		24"	5		2	2	10.00	T-WZ-60	
								TOTAL	460	S.F.	

TABULATED TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58I024-F3-015
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1250
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	160
	712-04.50	BARRIER RAIL DELINEATOR	EACH	60
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	160
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	160
	712-06	SIGNS (CONSTRUCTION)	S.F.	460
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
(1)	712-08.11	QUEUE PROTECTION TRUCK	HOUR	200
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	900
(2)	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	75
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	75
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	5920
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	1.8

PHASING NOTES:

PHASE 1.

1.) PLACE TRAFFIC CONTROL MEASURES AS DIRECTED BY THE TDOT ENGINEER
2.) BUILD IN WORKZONE.
3.) REMOVE AND ADJUST TRAFFIC CONTROL MEASURES AS NEEDED UNDER THE DIRECTION OF THE TDOT ENGINEER.
4.) COMPLETE FINAL RESURFACING

FOOTNOTES

(1) TO BE USED FOR ROLLING ROAD BLOCKS ACCORDING TO TDOT STD. DRAWING T-WZ-61 AND UNDER THE DIRECTION OF THE TDOT ENGINEER.

(2) FLEXIBLE DELINEATORS TO BE YELLOW.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	WORK ZONE
	TRAFFIC FLOW
	SIGN (CONSTRUCTION) (2-POST)
	ARROW BOARD TYPE C (SINGLE ARROW)
	FLEXIBLE DELINEATOR (GROUND MOUNTED)
	FLEXIBLE DRUMS (CHANNELIZATION)

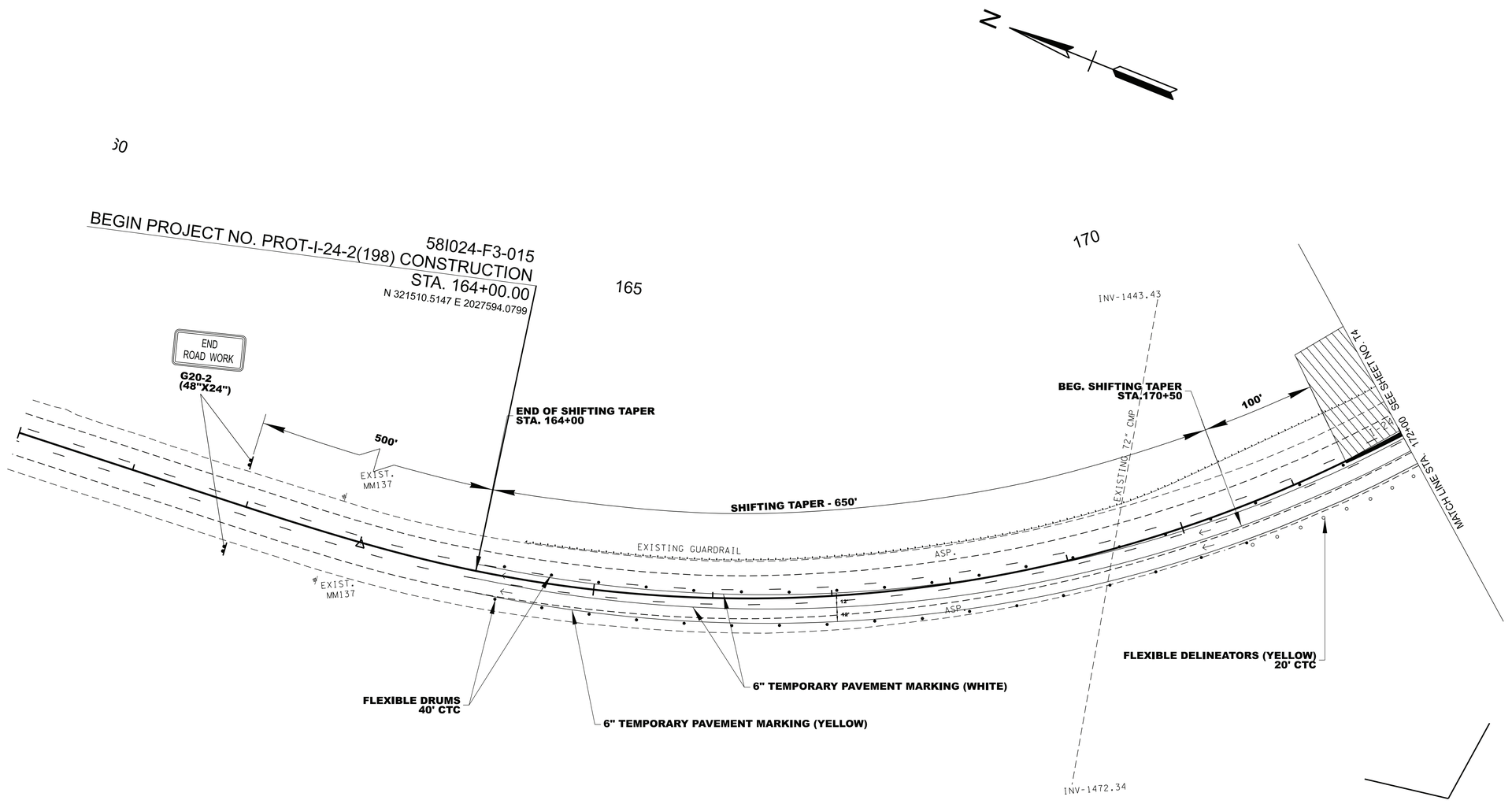
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
TAB. QUANTITIES,
LEGEND &
PHASING NOTES

12/10/2025 10:53:03 AM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\PAVEMENTEDGEANDDROPOFFNOTES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T3



SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

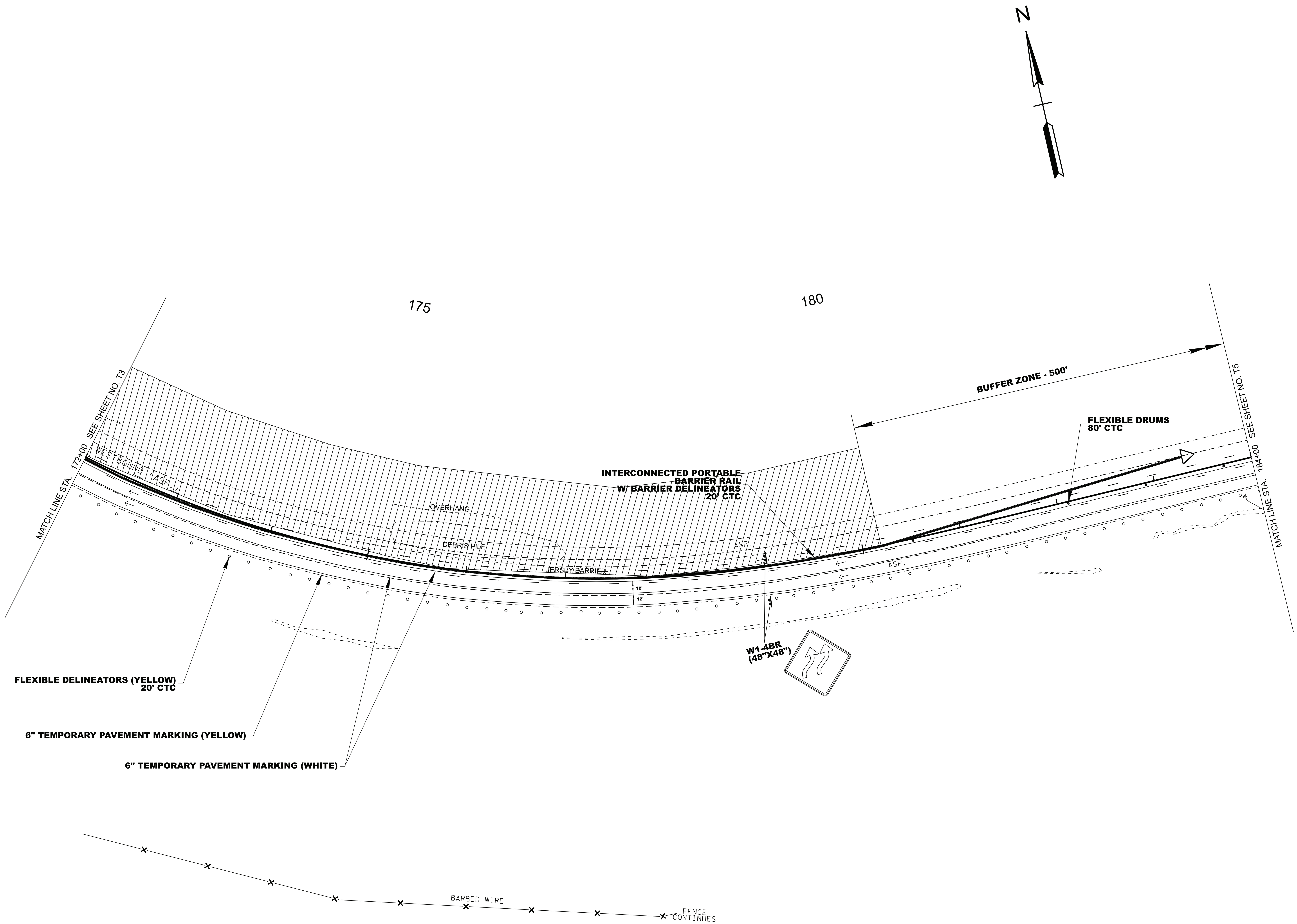
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 164+00.00 TO STA. 172+00.00
SCALE: 1" = 50'

12/10/2025 10:35:17 AM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\OMAR FILES\I-24 SLIDE REPAIR\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T4



SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

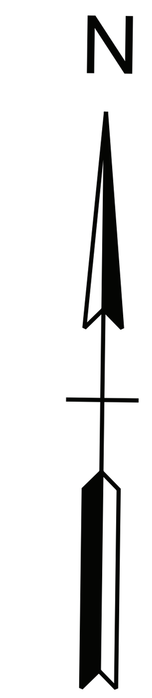
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

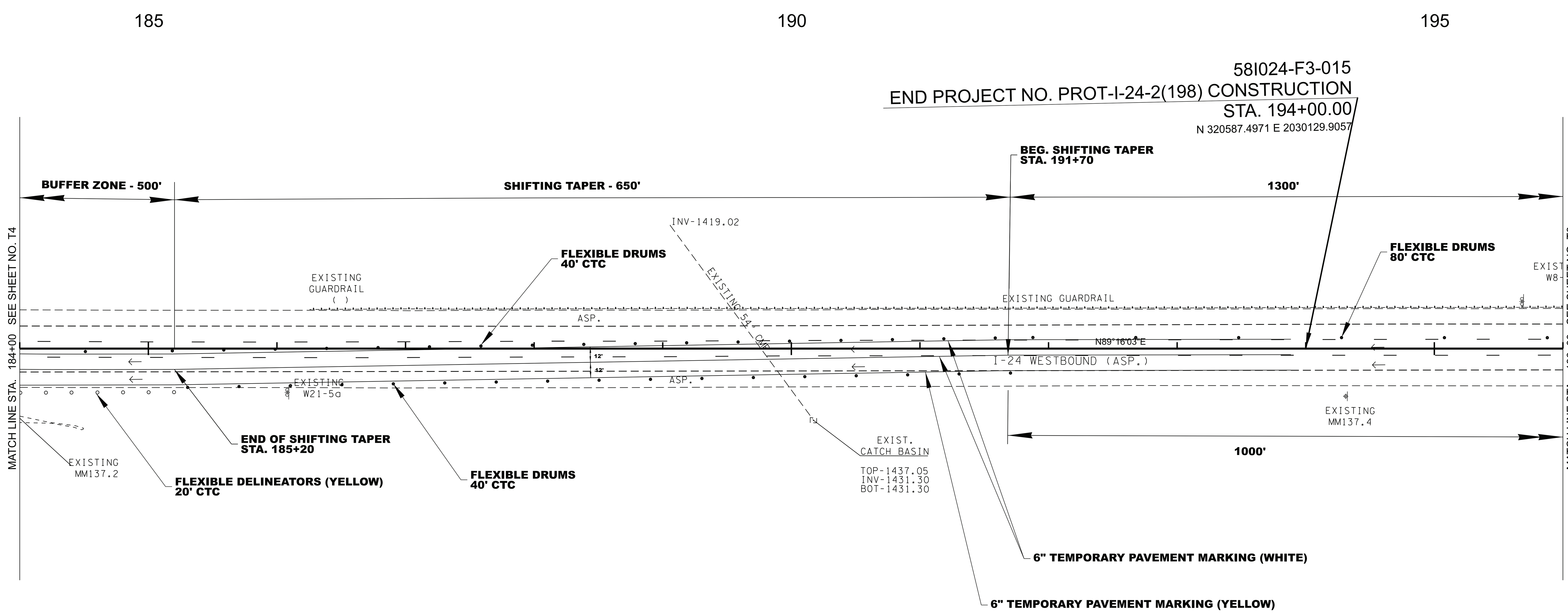
TRAFFIC
CONTROL
PLANS

STA. 172+00.00 TO STA. 184+00.00
SCALE: 1" = 50'

12/10/2025 10:35:18 AM
M:\DESIGN COUNTY FOLDERS\MARION\137001-00-I-24-SLIDE NEAR MM 137\ORD FILES\EMERGENCY I24\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T5





SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

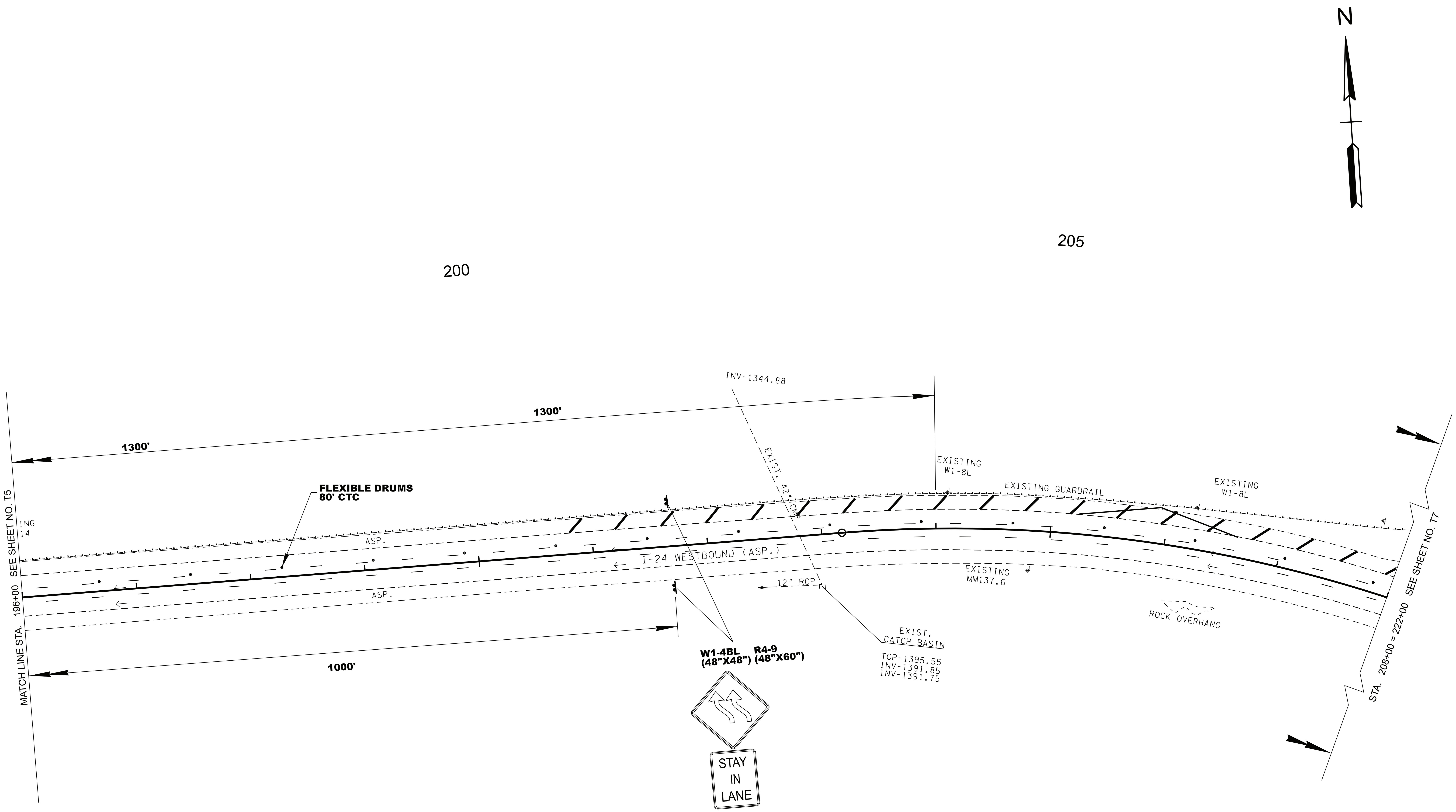
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 184+00.00 TO STA. 194+00.00
SCALE: 1" = 50'

12/10/2025 10:35:20 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T6



SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

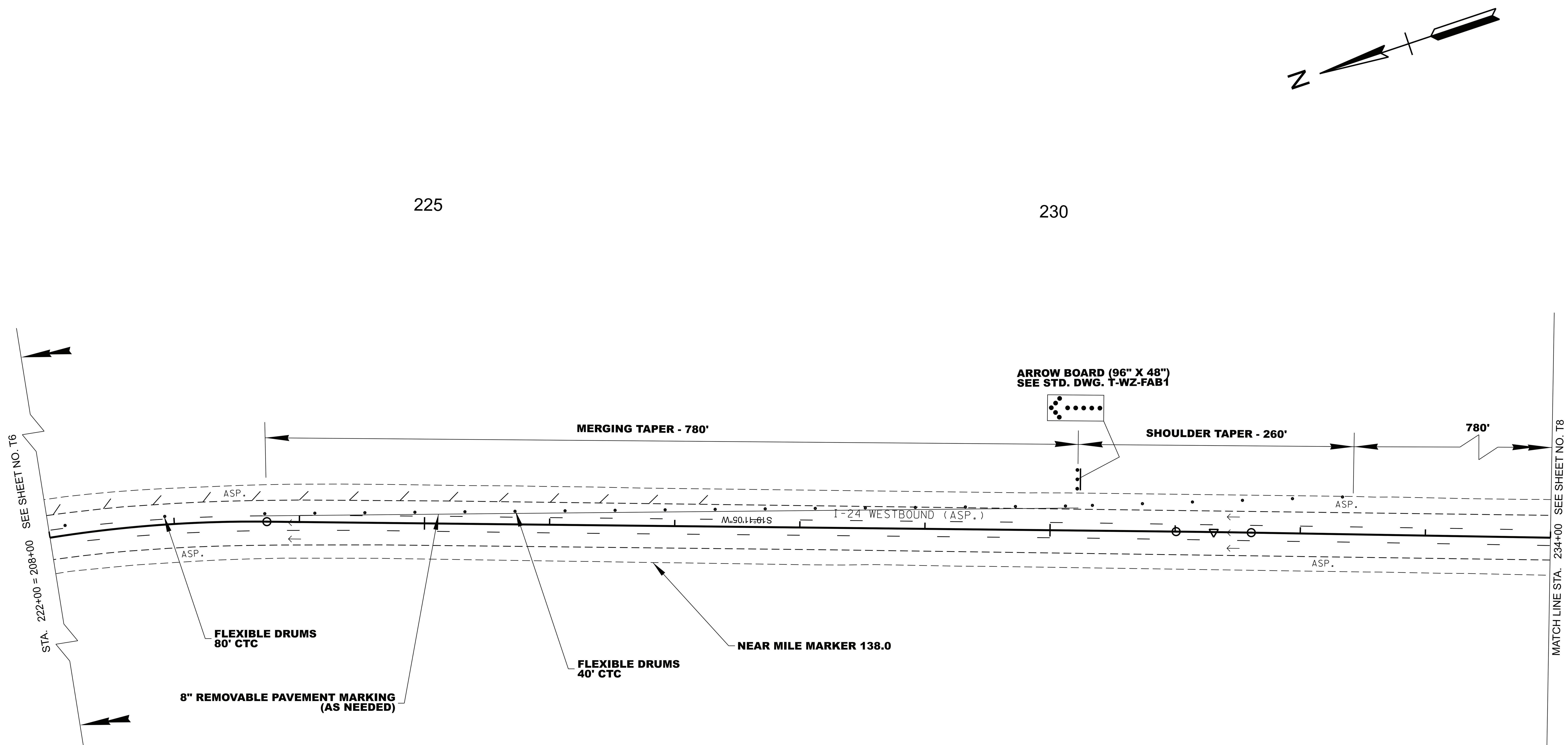
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL
PLANS

STA. 196+00.00 TO STA. 208+00.00
SCALE: 1" = 50'

12/10/2025 10:35:21 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T7



SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

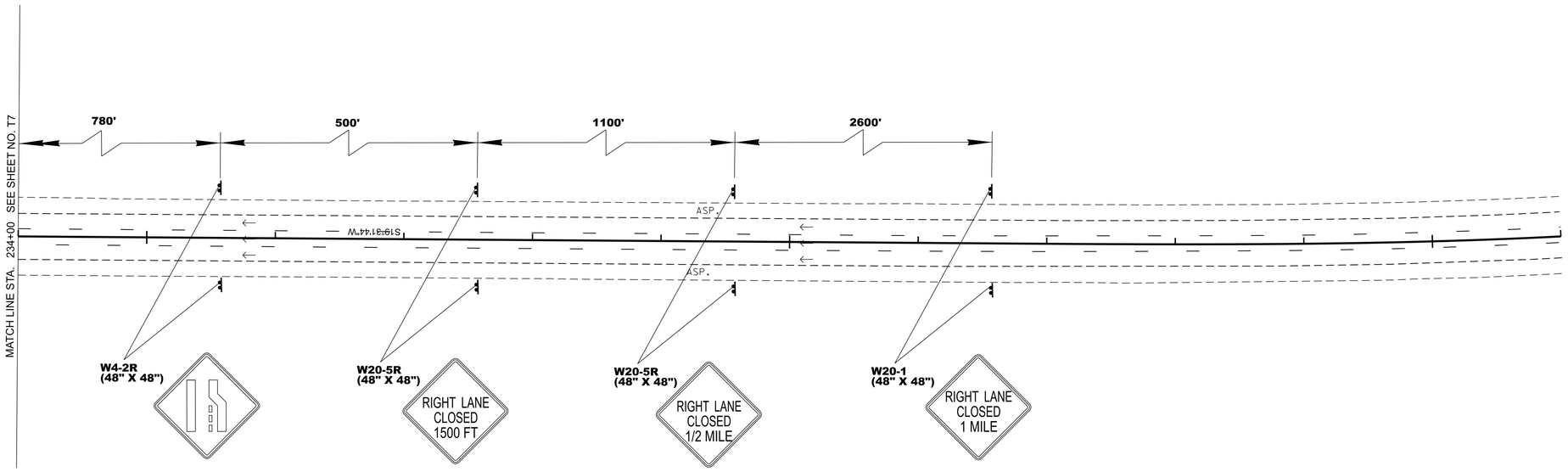
TRAFFIC CONTROL PLANS

STA. 222+00.00 TO STA. 234+00.00
SCALE: 1" = 50'

12/10/2025 10:35:22 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	T8

235 240 245



SEALED BY

12-10-2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 234+00.00 TO STA. 246+00.00
SCALE: 1" = 50'

12/10/2025 10:35:23 AM
C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER 2023.00\CONFIGURATION\WORKSPACES\TDOT_STANDARDS\WORKSETS\I-24 SLIDE REPAIR\DGN\MA024-02-DES-TRAFFICCONTROL.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Travis Smith Travis Smith
2025.12.10 14:59:49 -06'00'

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

TENNESSEE DEPARTMENT OF TRANSPORTATION
MATERIALS & TESTS DIVISION- GEOTECHNICAL ENGINEERING SECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243
TRAVIS W. SMITH, P.E. NO. 113851

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 PLANS	G-2-G-11

YEAR	PROJECT NO.	SHEET NO.
2026	PROT-I-24-2(198)	GEOTECH-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

N:\Geotech\Files\Region 2\58-Marion\FY2026\58075226\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G1

GEOTECHNICAL INDEX

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL
INDEX

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G2

GEOTECHNICAL NOTES

I-24, WB, LOG MILE 137.1, OUTSIDE ROCKFALL MITIGATION NOTES

THE PROJECT WILL CONSIST OF BUT IS NOT LIMITED TO THE FOLLOWING:

1. CLEAN OUT DITCH BELOW ROCK CUT AND ROCK BENCHES - THIS CAN BE DONE BEFORE OR AFTER SCALING OPERATIONS. ALL ROCK AND LOOSE DEBRIS SHALL BE REMOVED. IF DITCH/BENCH CLEANOUT IS COMPLETED BEFORE SCALING AND TRIMMING OPERATIONS, FINAL CLEANOUT OF DITCH/BENCHES SHALL BE COMPLETED AFTER ALL SCALING AND TRIMMING IS COMPLETED.

2. CLEAR AND GRUB - VEGETATION REMOVAL SHALL CONSIST OF CUTTING AND REMOVING VEGETATION LOCATED ALONG THE ROCK FACE, CATCHMENT AREA, BENCHES AND TOP. THIS GENERALLY INCLUDES AN AREA APPROXIMATELY 50 FEET BEYOND FRONT EDGE OF THE ROCK CUT. REMOVAL OF VEGETATION FROM THE SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.

4. SCALE AND TRIM THE ROCK FACE AS SHOWN IN THE PLAN SHEETS AND AS DIRECTED BY THE ENGINEER. ADDITIONAL AREAS MAY BE IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION SUCH AS SPECIFIC PROBLEM AREAS, BOULDERS, OVERHANGS, UNSTABLE ROCKS, ROCK PINNACLES AND OTHER FEATURES FOR REMOVAL. HOWEVER, THESE SHALL NOT BE TAKEN TO BE THE ONLY MATERIAL TO BE REMOVED FROM THE SITE. SCALING AND TRIMMING SHALL INCLUDE REMOVAL OF MATERIAL FROM THE ROCK FACE FOR THE ENTIRE IDENTIFIED SURFACE AREA. SCALING AND TRIMMING OPERATIONS AS WELL AS VEGETATION REMOVAL SHALL INCLUDE:

A. TRAFFIC SHALL BE PROTECTED FROM FALLING OR BLASTED ROCK, FALLING DEBRIS OR FALLING VEGETATION CAUSED BY THE WORK COMPLETED FOR THIS PROJECT, AS PER SP203E, THE EXISTING ROADWAY SHALL BE PROTECTED FROM FALLING OR BLASTED ROCK, DEBRIS AND VEGETATION.

B. DISPOSAL OF THE ROCK, VEGETATION AND OTHER DEBRIS FROM THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR AT A SITE OR SITES DESIGNATED OR APPOROVED BY TDOT.

C. SOME AREAS ON SITE WILL REQUIRE LITTLE REMOVAL OF ROCK FROM THE FACE AND THE TOP OF THE CUT. OTHER AREAS ON THE FACE WILL REQUIRE MORE EXTENSIVE WORK. PLEASE SEE PHOTO PLAN SHEETS FOR APPROXIMATE LOCATION AND TRIMMING DEPTHS. AREAS OF EXTENSIVE SCALING AND TRIMMING ARE NOTED ON THESE PLAN SHEETS.

D. SCALING AND TRIMMING SHALL INCLUDE REMOVAL OF ROCK BY HAND, BY MECHANICAL MEANS, OR BY THE USE OF BLASTING. HIGH REACH EXCAVATION EQUIPMENT MAY BE REQUIRED IN ORDER TO ACCESS THE UPPER PORTION OF ROCK CUTS TO COMPLETE SCALING AND TRIMMING OPERATIONS.

5. INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO 179+75 PER SP707D. THE TOP OF THE DRAPE WILL BE INSTALLED A MINIMUM OF 10 FEET BACK FROM THE FINAL PRESPLIT LINE AND THE BOTTOM OF THE DRAPE WILL BE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION. TYPICAL ANCHOR INSTALLATION DETAILS ARE INCLUDED AND MAY REQUIRE CHANGES IN THE FIELD WITH THE APPROVAL OF THE ENGINEER.

6. INSTALL A SINGLE ROW OF HORIZONTAL DRAINS FROM STATION 173+50 TO STATION 179+50 AT THE LIMESTONE / SHALE INTERFACE AT AN APPROXIMATE ELEVATION OF 1505 FEET. THE DRAINS WILL BE SPACED 25 FEET APART AND EXTEND 20 FEET INTO THE CUT OR AS DIRECTED BY THE ENGINEER.

7. ALL ROCKFALL MITIGATION WORK MUST OCCUR WITHIN TDOT RIGHT-OF-WAY AND MUST NOT IMPACT LOCAL DRAINAGES OR WATERWAYS.

8. LINE THE CATCHMENT IN ITS ENTIRETY WITHA MINIMUM 2-FOOT LAYER OF MACHINED RIPRAP (CLASS B), OR AS DIRECTED BY THE ENGINEER

9. INSTALL A 51 INCH SINGLE SLOPE CONCRETE BARRIER WALL ALONG THE EDGE OF THE PAVED SHOULDER, OFFSET APPROXIMATELY 28 FEET LEFT OF CENTER FROM STATION 172+00 TO STATION 180+00. THE EXISTING TEMPORARY JERSEY BARRIER SHALL BE REMOVED PRIOR TO CONSTRUCTION OF THE SINGLE SLOPE CONCRETE BARRIER WALL. A GUARDRAIL AND TYPE 38 END TERMINAL SHALL BE INSTALLED AT THE EAST END OF THE BARRIER WALL.

	GEOTECHNICAL ESTIMATED ROADWAY QUANTITIES			
	ITEM No.	DESCRIPTION	UNIT	QUANTITY
(1)	203-01	ROAD& DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	14957
(2)	203-11	SCALING AND TRIMMING	SY	800
(3)	203-01.11	PRE-SPLITTING OF ROCK EXCAVATION	SY	3265
(4)	610-12.02	HORIZONTAL DRAINS	LF	510
(5)	707-02.43	ROCK ANCHOR, TYPE 1	LF	504
(5)	707-10.07	ROCKFALL DRAPE, (TYPE III)	SY	4667
(6)	709-05.08	MACHINED RIP-RAP (CLASS B)	TN	4627

FOOT NOTES:

(1) THESE QUANTITIES INCLUDES MATERIAL REMOVED BY SCALING, TRIMMING, CLEARING, RESHAPING, AND EXCAVATION OF ROCK SLOPE AND CATCHMENT ROCK PILES AS DIRECTED BY THE ENGINEER. THE QUANTITY **DOES NOT** INCLUDE EXISTING CONSTRUCTED ACCESS RAMP AND PREVIOUS ROCK FALL PILE.

(2) REFER TO SPECIAL PROVISION 203E.

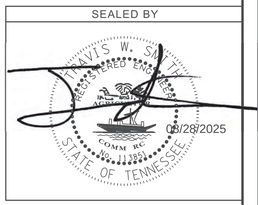
(3) TO FORM SMOOTH FINISH OF ROCK EXCAVATION FACE AT THE TOP OF SLOPE AS NOTED AT SPECIFIC LOCATIONS ON THE GEOTECHNICAL SHEETS AND AT THE DISCRETION OF THE ENGINEER.

(4) REFER TO SPECIAL PROVISION 610HD.

(5) REFER TO SPECIAL PROVISION 707D.

(6) QUANTITY INCLUDES A MINIMUM 3-FOOT LAYER OF MACHINED RIP RAP (CLASS B) LINING THE CATCHMENT.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

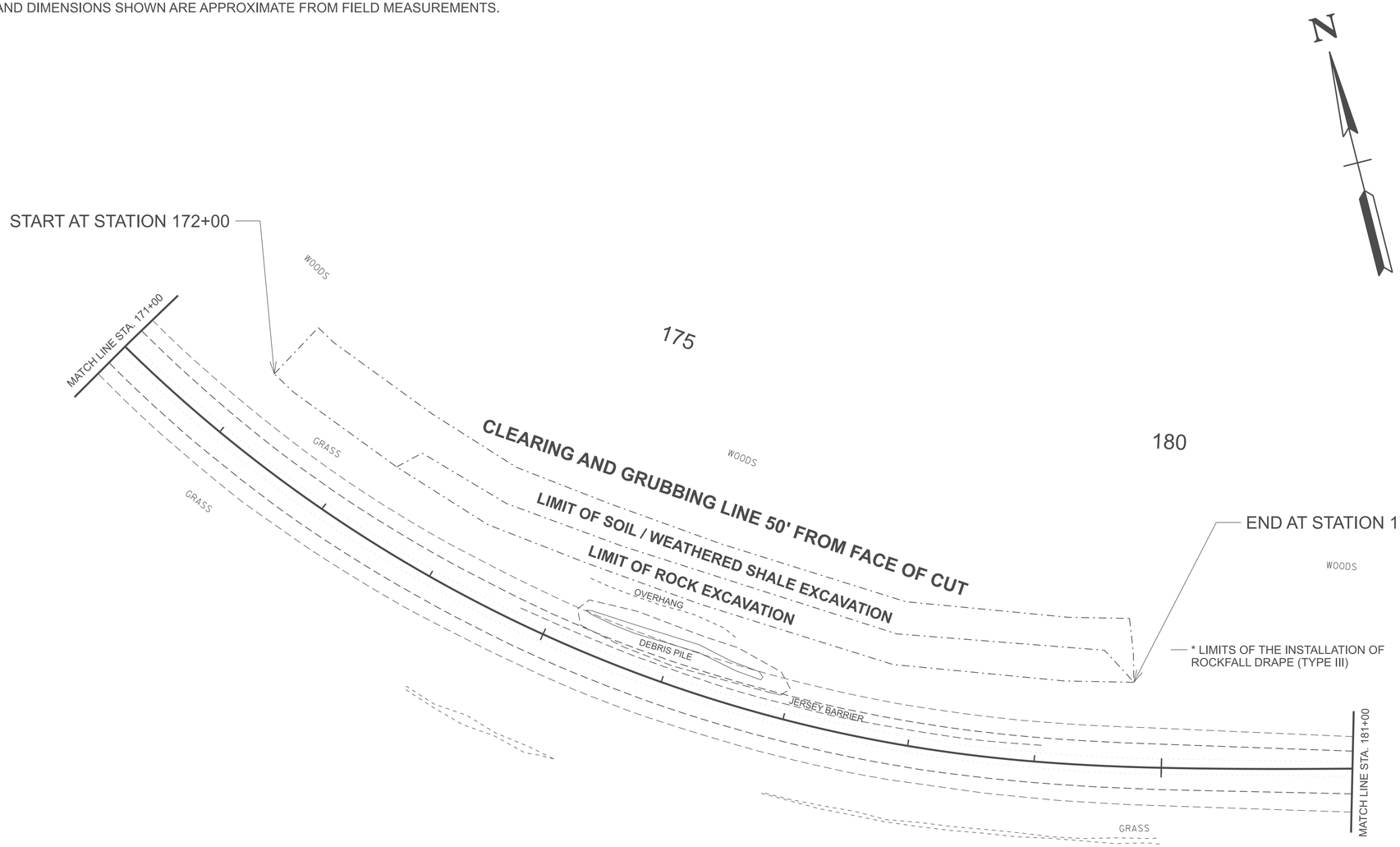
GEOTECHNICAL
NOTES &
TAB. QTYS.

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G3

* NOTE:
THIS LOCATION INCLUDES TRIMMING, SCALING, PRE-SPLITTING, AND INSTALLATION OF A MESH DRAPE AS INDICATED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL LOCATIONS MAY BE ENCOUNTERED DURING CONSTRUCTION OR IDENTIFIED AS DIRECTED BY THE ENGINEER. ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE FROM FIELD MEASUREMENTS.



SEALED BY

08/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G4

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.

NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

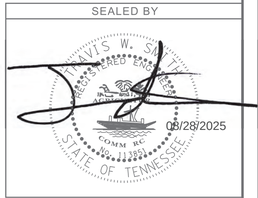
REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

ST 172+00 TO ST 173+00

1) CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK OF THE SLOPE BREAK.
2) REMOVE LOOSE ROCK BY SCALING AND TRIMMING (TO INCLUDED HAND AND MECHANICAL METHODS).
3) REMOVE OVERHANGING LEDGES WITH GREATER THAN 1.0 FEET OF RELIEF.
4) REMOVE VERTICAL SLABS OF ROCK THAT SHOW OBVIOUS SEPARATION OF JOINTING OR AT THE DIRECTION OF THE ENGINEER. NOT TO EXCEED 20 FEET OF DEPTH INTO THE FACE MEASURED FROM THE FACE AT THE DITCH LINE.
5) INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER. SEE TYPICAL DETAIL SHEETS.
6) INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF THE PAVED SHOULDER OFF SET APPROXIMATELY 28 FEET LEFT OF CENTERLINE, FROM STATION 172+00 TO STATION 180+00.
7) LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET.

SEALED BY



08/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL

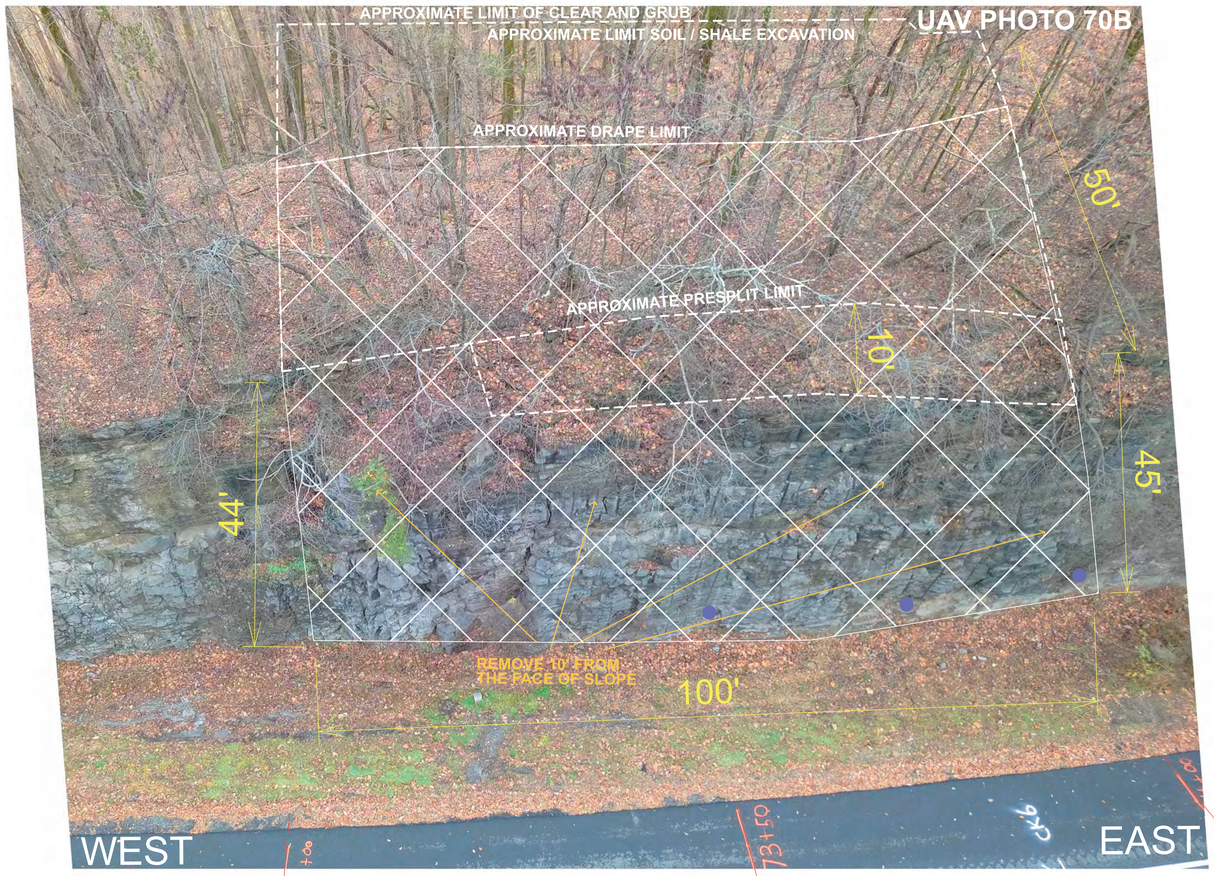
ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\58075\26\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G5

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.



NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

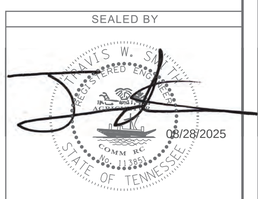
ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

● **HORIZONTAL DRAIN APPROXIMATE LOCATION**

ST 173+00 TO ST 174+00

1 CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK SLOPE BREAK OF THE SLOPE BREAK.
2 EXCAVATE A 20-FEET-WIDE BENCH, WITH A 2H:1V BACK SLOPE, ALONG THE FRONT EDGE OF THE CUT BY EXCAVATING THE SOIL AND WEATHERED SHALE DOWN TO COMPETENT ROCK AS MEASURED FROM THE EXISTING FRONT EDGE OF THE ROCK CUT.
3 PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
4 INSTALL HORIZONTAL DRAINS BEGINNING AT STATION 173+50 TO STATION 179+75. REFER TO SPECIAL PROVISION 610HD.
5 INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER.
6 INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF PAVEMENT FROM STATION 172+00 TO STATION 180+00.
7 LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G6

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.

NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

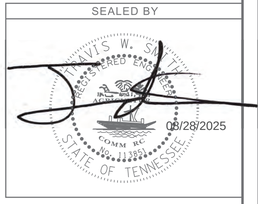
ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

● **HORIZONTAL DRAIN APPROXIMATE LOCATION**

ST 174+00 TO ST 175+50

1 CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK SLOPE BREAK OF THE SLOPE BREAK.
2 EXCAVATE A 20-FEET-WIDE BENCH, WITH A 2H:1V BACK SLOPE, ALONG THE FRONT EDGE OF THE CUT BY EXCAVATING THE SOIL AND WEATHERED SHALE DOWN TO COMPETENT ROCK AS MEASURED FROM THE EXISTING FRONT EDGE OF THE ROCK CUT.
3 PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
4 INSTALL HORIZONTAL DRAINS BEGINNING AT STATION 173+50 TO STATION 179+75. REFER TO SPECIAL PROVISION 610HD.
5 INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER.
6 INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF PAVEMENT FROM STATION 172+00 TO STATION 180+00.
7 LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET

SEALED BY



06/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL

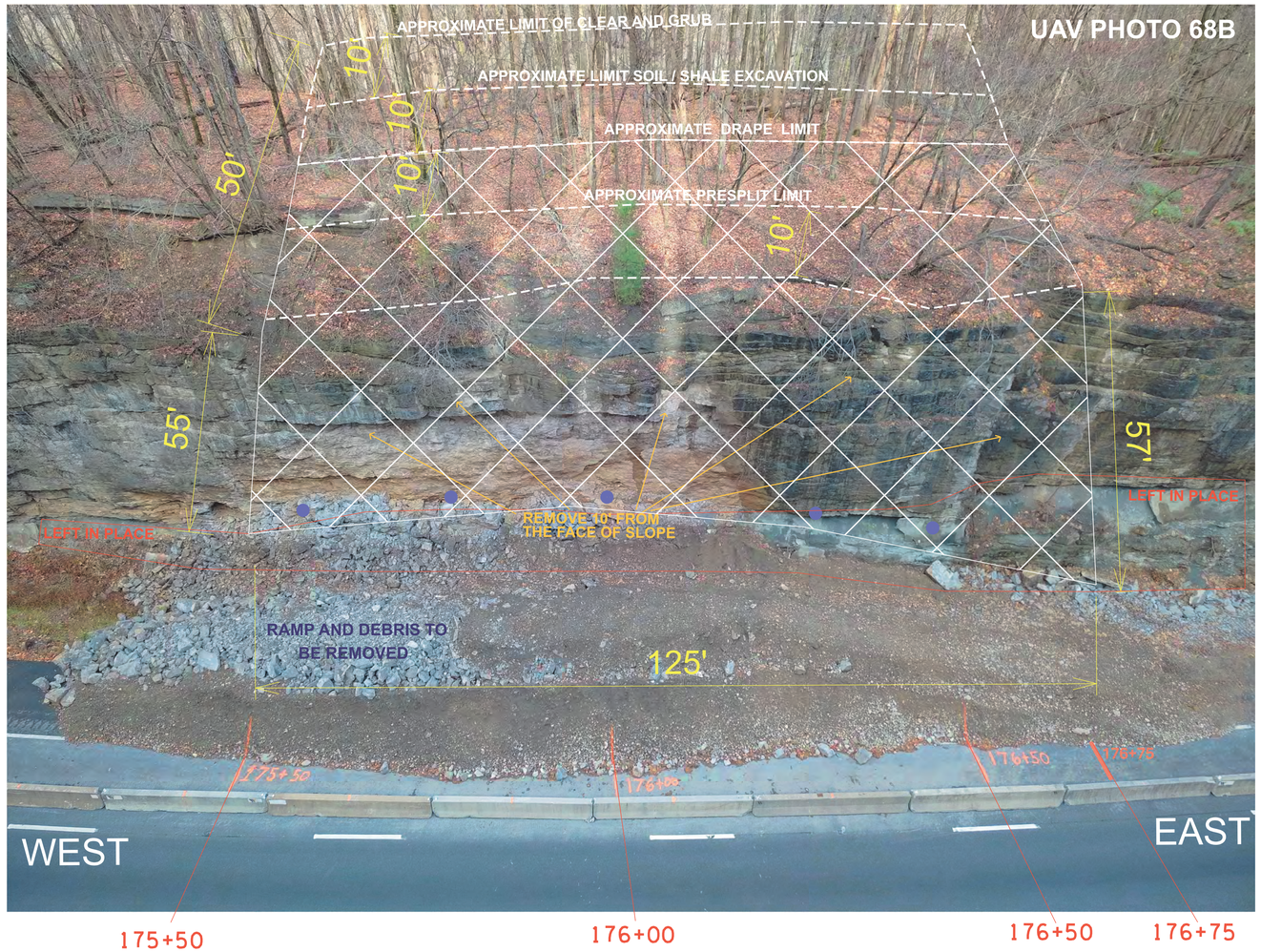
ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G7

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.



NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

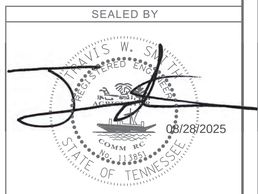
ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

● **HORIZONTAL DRAIN APPROXIMATE LOCATION**

ST 175+50 TO ST 176+75

1 CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK SLOPE BREAK OF THE SLOPE BREAK.
2 EXCAVATE A 20-FEET-WIDE BENCH, WITH A 2H:1V BACK SLOPE, ALONG THE FRONT EDGE OF THE CUT BY EXCAVATING THE SOIL AND WEATHERED SHALE DOWN TO COMPETENT ROCK AS MEASURED FROM THE EXISTING FRONT EDGE OF THE ROCK CUT.
3 PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
4 INSTALL HORIZONTAL DRAINS BEGINNING AT STATION 173+50 TO STATION 179+75. REFER TO SPECIAL PROVISION 610HD.
5 INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER.
6 INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF PAVEMENT FROM STATION 172+00 TO STATION 180+00.
7 LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET

SEALED BY



05/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL

ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G8

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.

NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

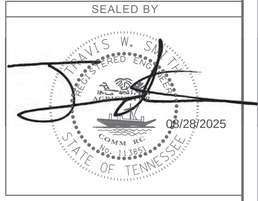
ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

● **HORIZONTAL DRAIN APPROXIMATE LOCATION**

ST 176+75 TO ST 178+75

1 CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK SLOPE BREAK OF THE SLOPE BREAK.
2 EXCAVATE A 20-FEET-WIDE BENCH, WITH A 2H:1V BACK SLOPE, ALONG THE FRONT EDGE OF THE CUT BY EXCAVATING THE SOIL AND WEATHERED SHALE DOWN TO COMPETENT ROCK AS MEASURED FROM THE EXISTING FRONT EDGE OF THE ROCK CUT.
3 PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
4 INSTALL HORIZONTAL DRAINS BEGINNING AT STATION 173+50 TO STATION 179+75. REFER TO SPECIAL PROVISION 610HD.
5 INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER.
6 INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF PAVEMENT FROM STATION 172+00 TO STATION 180+00.
7 LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET

SEALED BY



08/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL

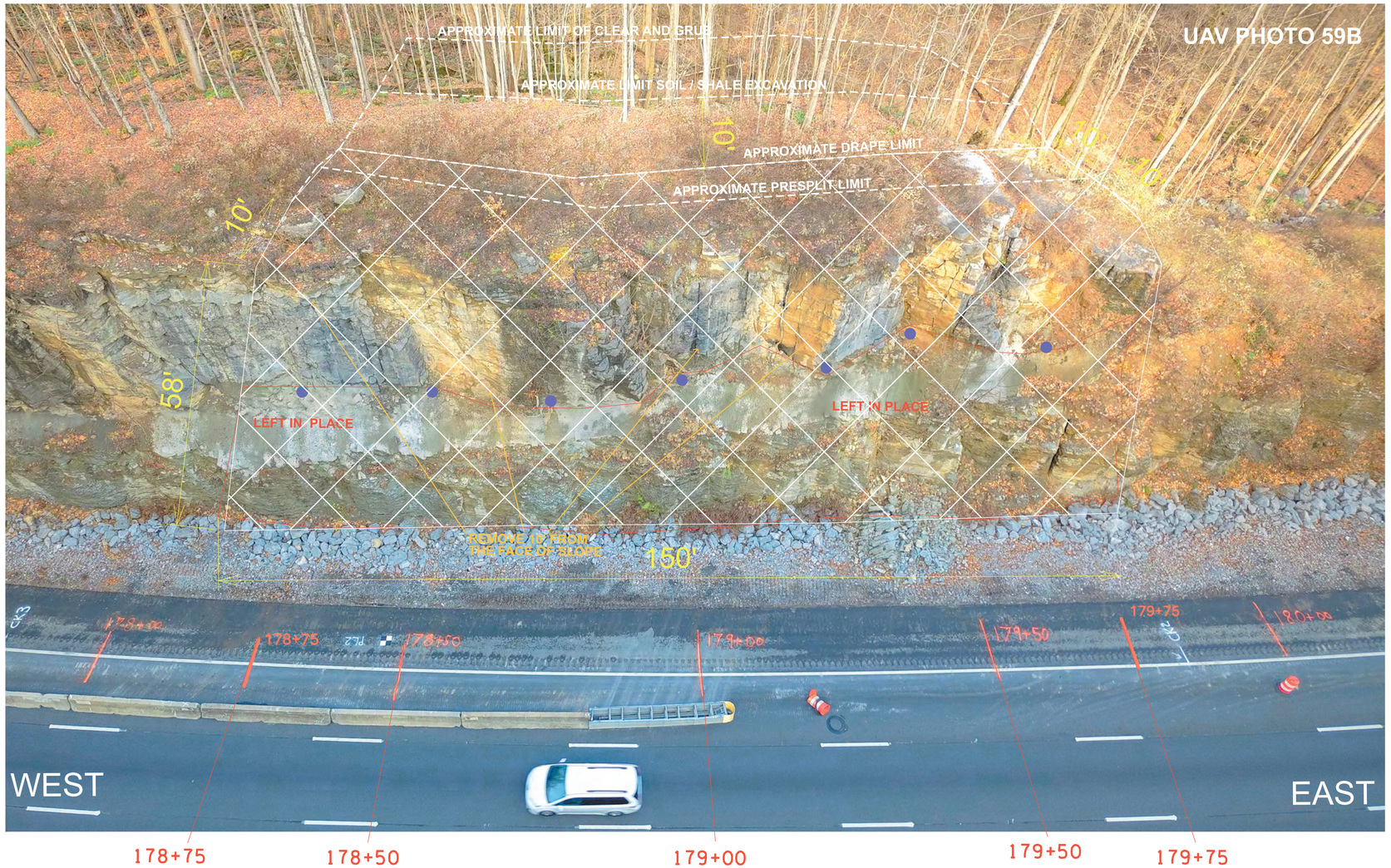
ROCKFALL MITIGATION

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\58075\26\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G9

THIS LOCATION INCLUDES TRIMMING, SCALING, AND THE INSTALLATION OF A ROCKFALL DRAPE (TYPE III) AS INDICATED BY THE PLANS OR AS DIRECTED BY ENGINGER.



NOTE:
THE DRAWINGS/CONFIGURATIONS AND PLACEMENT OF SLOPE MITIGATION ELEMENTS SHOWN HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

APPROXIMATE LOCATION OF ROCKFALL DRAPE (TYPE III)

REFERENCE DETAIL FOR PLACEMENT AND ORIENTATION OF DRAPE & ANCHORS.

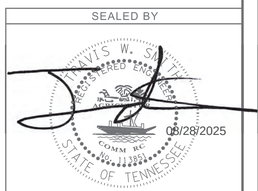
ROCKFALL DRAPE TYPE III TO BE INSTALLED WITH THE LOWER EDGE 5 FEET ABOVE THE TOP OF THE CATCHMENT ELEVATION.

● **HORIZONTAL DRAIN APPROXIMATE LOCATION**

ST 178+75 TO ST 179+75

1 CLEAR AND GRUB FROM TOP EDGE OF CUT, BACK A MINIMUM DISTANCE OF 50 FEET OR THE BACK SLOPE BREAK OF THE SLOPE BREAK.
2 EXCAVATE A 20-FEET-WIDE BENCH, WITH A 2H:1V BACK SLOPE, ALONG THE FRONT EDGE OF THE CUT BY EXCAVATING THE SOIL AND WEATHERED SHALE DOWN TO COMPETENT ROCK AS MEASURED FROM THE EXISTING FRONT EDGE OF THE ROCK CUT.
3 PRESPLIT THE INTERVAL FROM STATION 173+00 TO STATION 179+50 ALONG A LINE POSITIONED NOT MORE THAN 10 FEET INTO THE FACE OF THE CUT AS MEASURED HORIZONTALLY FROM THE TOE OF THE EXISTING CUT. ADJUSTMENT TO THE PRESPLIT LINE AND OR ADDITIONAL PRESPLITTING MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
4 INSTALL HORIZONTAL DRAINS BEGINNING AT STATION 173+50 TO STATION 179+75. REFER TO SPECIAL PROVISION 610HD.
5 INSTALL ROCKFALL DRAPE (TYPE III) FROM STATION 172+00 TO STATION 179+75 OR AS DIRECTED BY THE ENGINEER.
6 INSTALL 51-INCH, SINGLE SLOPE CONCRETE BARRIER WALL AT THE EDGE OF PAVEMENT FROM STATION 172+00 TO STATION 180+00.
7 LINE THE CATCHMENT WITH LOOSELY PLACED TDOT CLASS B RIP RAP TO A MINIMUM THICKNESS OF 2 FEET

SEALED BY



08/28/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

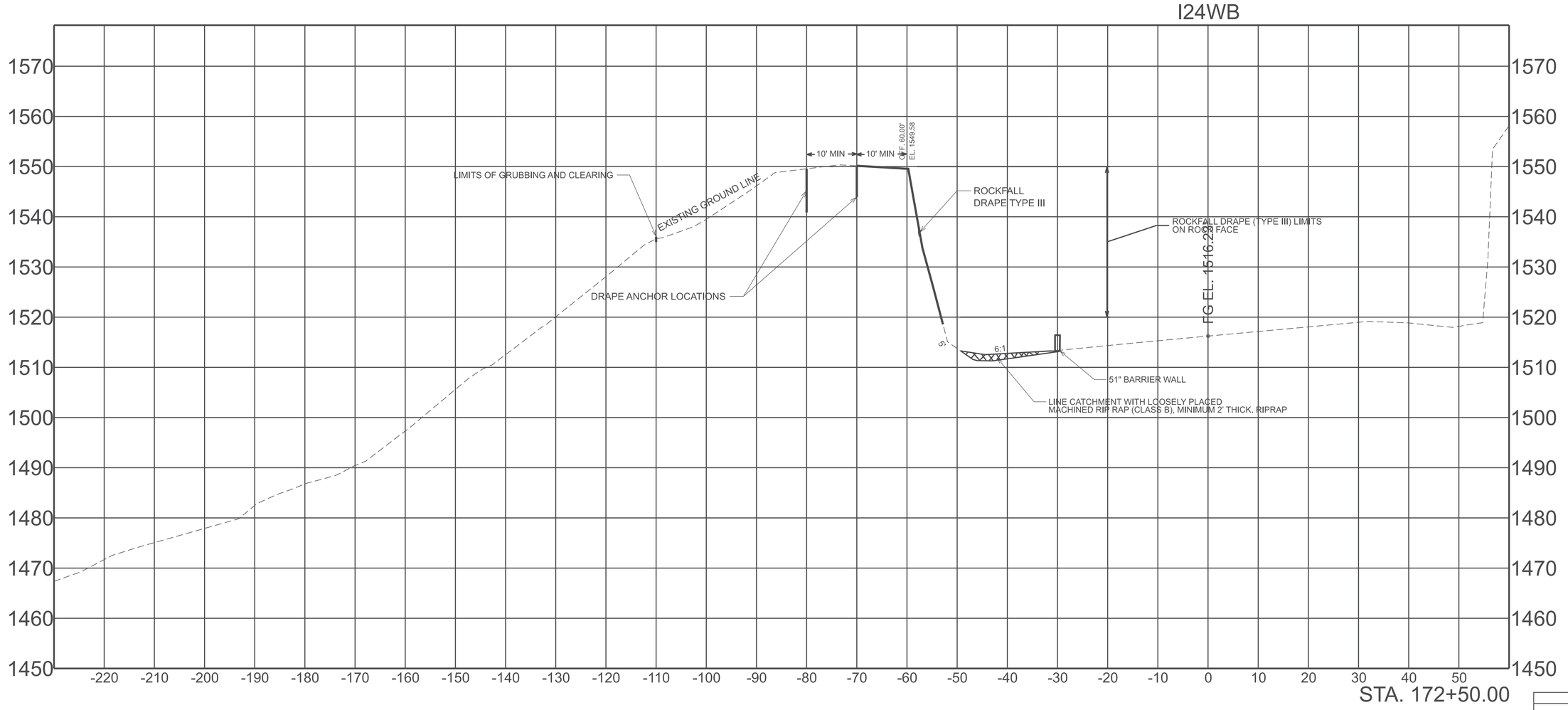
GEOTECHNICAL

ROCKFALL MITIGATION

CELL BDRSG

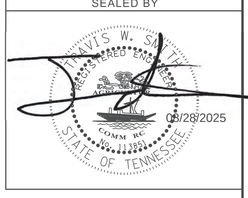
N:\Geotech\Files\Region 2\58-Marion\FY2026\580752G\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G10



REPRESENTATIVE TYPICAL SECTION FROM I-24 WB,
LM 137.1, OUTSIDE CUT
STATION 172+00 TO STATION 173+00

SEALED BY



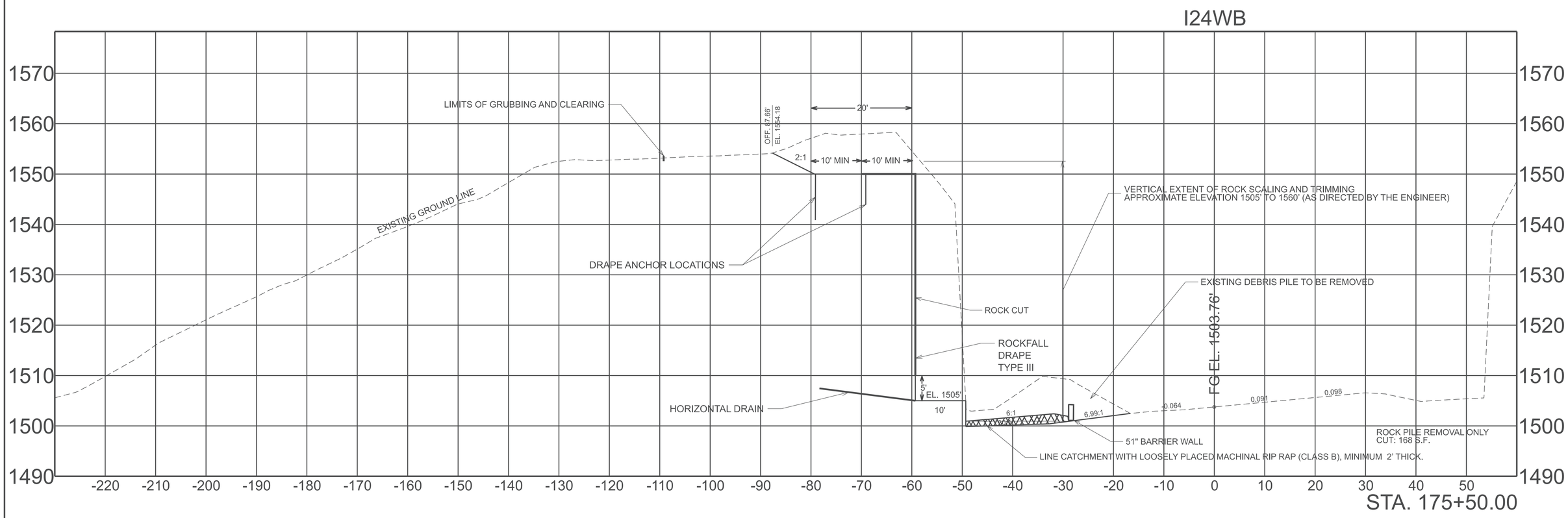
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL
TYPICAL SECTIONS

CELL BDRSG

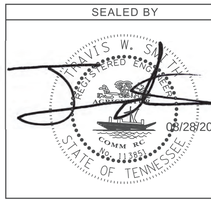
N:\Geotech\Files\Region 2\58-Marion\FY2026\5807526\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G11



REPRESENTATIVE TYPICAL SECTION FROM I-24 WB, LM 137.1, OUTSIDE CUT STATION 173+00 TO STATION 179+50

SEALED BY



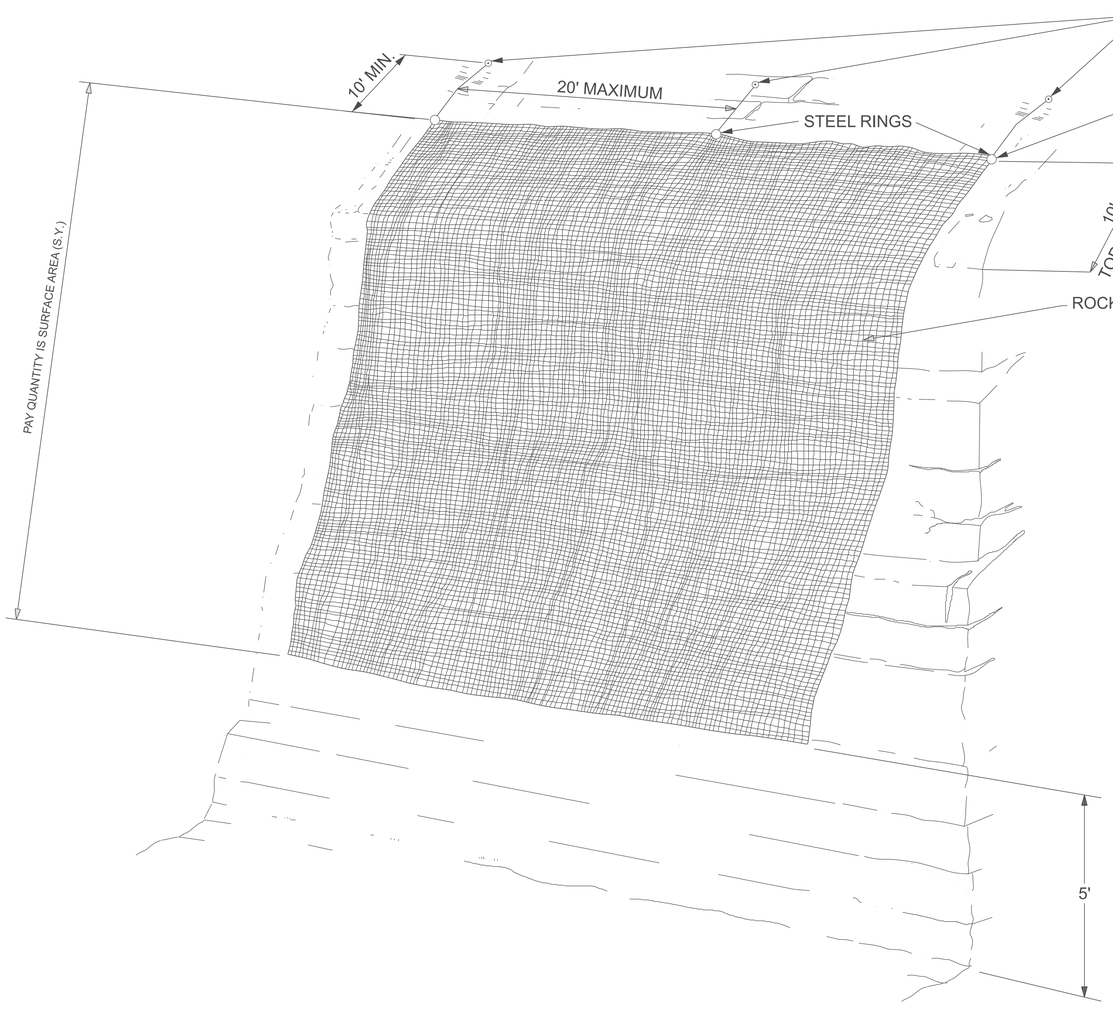
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

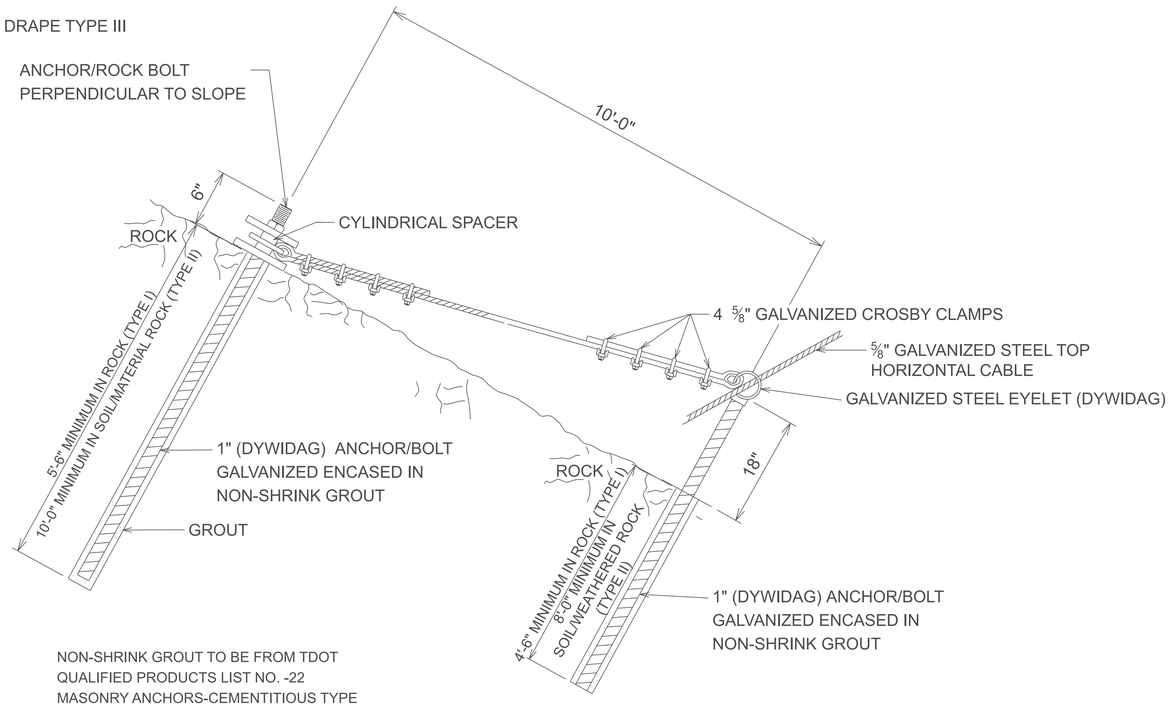
GEOTECHNICAL
TYPICAL SECTIONS

CELL BDRSG

N:\Geotech\Files\Region 2\58-Marion\FY2026\580752601\02-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G12





NON-SHRINK GROUT TO BE FROM TDOT
QUALIFIED PRODUCTS LIST NO. -22
MASONRY ANCHORS-CEMENTITIOUS TYPE

DETAIL A

*NOTE:

ADDITIONAL ANCHORS MAYBE REQUIRED AS DIRECTED BY THE ENGINEER BASED ON SITE CONDITIONS.

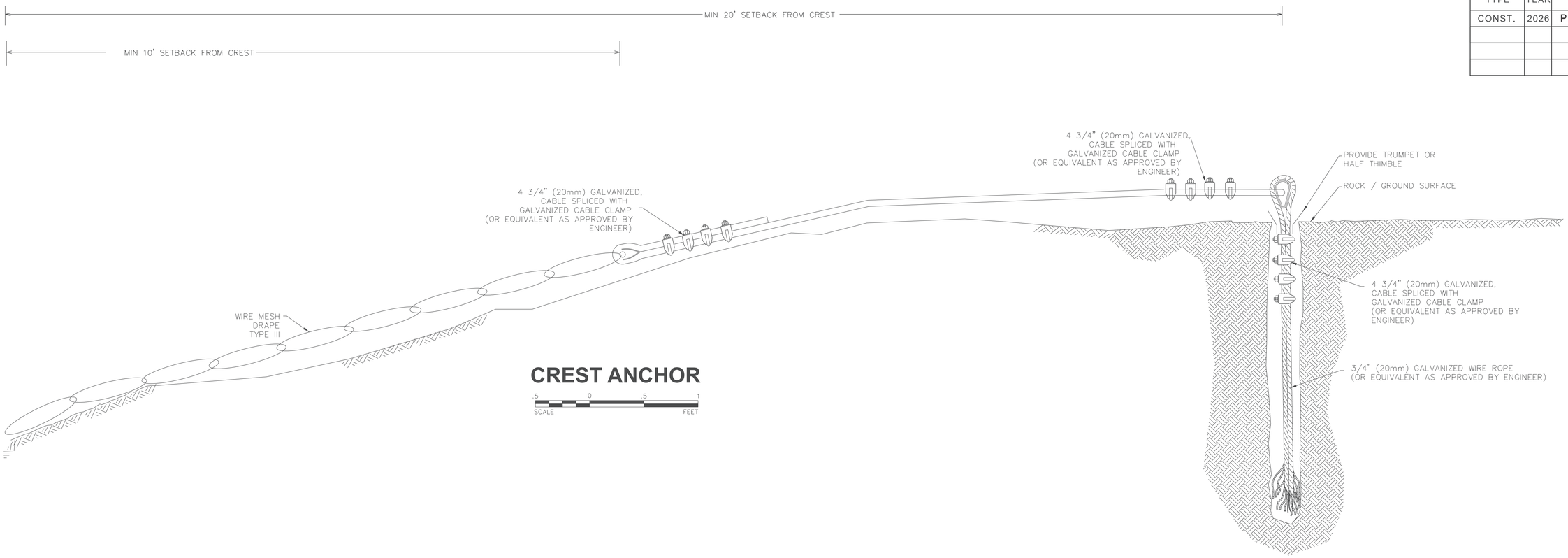
SLOPE DRAPE SHALL BE PLACED SUCH THAT THE MATERIAL COMES OFF THE ROLL OPPOSITE THE ROCK FACE.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL
TYPICAL
DETAILS

N:\Geotech\Files\Region 2\58-Marion\FY2026\580752602-CADD\02-Geo Drawing Sheets

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2026	PROT-I-24-2(198)	G13



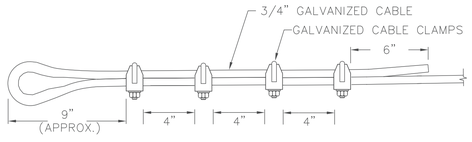
CREST ANCHOR

.5 0 .5 1
SCALE FEET

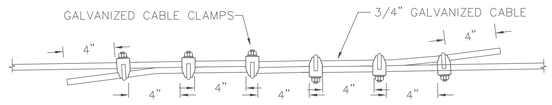
WIRE ROPE ANCHOR

.5 0 .5 1
SCALE FEET

NOTE:
MAY BE SUBSTITUTED FOR CONTINUOUSLY THREADED BAR ANCHORS WITH THE APPROVAL OF THE ENGINEER.



WIRE ROPE LOOP DETAIL



WIRE ROPE SPLICE DETAIL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
TYPICAL DETAILS

N:\Geotech\Files\Region 2\58-Marion\FY2026\580752602-CADD\02-Geo Drawing Sheets

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	S-1

SWPPP INDEX OF SHEETS

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): 61.005 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 1.733 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: I-24, Slide near MM 137
COUNTY: Marion
PIN: 137001.01

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) 11, 11A, 11B, DRAINAGE MAP SHEET(S) 8, 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: 1B

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)**
Bouldery colluvium, Allen soil material (Bouldin)	A	85.0	0.05
Rock outcrop-Talbott complex, 12 to 60 percent slopes	N/A	12.8	N/A
Rock outcrop-Ramsey complex, 12 to 60 percent slopes	N/A	2.2	N/A

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO

2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? ☐ YES ☐ NO; AND

2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/A (TDOT SP107L WILL BE APPLIED.)

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	**AREA(AC)**	**PERCENTAGE OF TOTAL AREA (%)**	**RUNOFF CN**	**C FACTOR**
FORESTED	54.1	88.7		0.3
PAVEMENT	4.1	6.8		0.9
GRAVEL	2.8	4.5		0.6
GRASS	0.0	0.0		0.4
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.35

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	**AREA(AC)**	**PERCENTAGE OF TOTAL AREA (%)**	**RUNOFF CN**	**C FACTOR**
FORESTED	53.2	87.2		0.3
PAVEMENT	4.1	6.8		0.9
GRAVEL	2.8	4.5		0.6
GRASS	0.9	1.5		0.4
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.36

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 10)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED).

3.8. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.9. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.10. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.11. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.12. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.13. 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)**
N/A	Cave Cove Branch	No	No	No	Yes

4.1.4. RECEIVING WATERS OF THE US (NON STATE WATERS) (4.1.2). LIST ANY FEATURE THAT IS IDENTIFIED AS A WET WEATHER CONVEYANCE (TDEC) AND IDENTIFIED AS WATERS OF THE US BY THE ARMY CORPS OF ENGINEERS.

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US		
TDOT STATE WATER LABEL FROM EBR	**LOCATED WITHIN PROJECT LIMITS (YES OR NO)**	**LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)**
N/A	N/A	N/A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	S-2

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)

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)
N/A	N/A	N/A	N/A	N/A

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) 1B.

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.)?

YES ☒ NO ☐

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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 10 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.

5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.

5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.

5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 10 (5.5.3.1.j).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.3.).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (5.5.3.5.).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 2 WEEKS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (5.5.3.5.f).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 2 WEEKS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (5.5.3.4.).

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 1 WEEK AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (5.5.3.4.).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.5.3.5.)? ☐ YES ☒ NO

IF YES, THE FOLLOWING NOTES APPLY:

6.1. ENSURE THE FLOCCULANT EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE (5.5.3.5.). AND MEET THE FOLLOWING REQUIREMENTS:

6.1.1. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE (MILLIGRAM PER MOLE).

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

6.2. FLOCCULANT SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

6.3. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPS REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF FLOCCULANTS ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. FLOCCULANT EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR THIS PROJECT.

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

6.5. EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHODS SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN BUFFERS.

6.6. FLOCCULANT POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING OF THE FLOCCULANT POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

6.7. PREMIXING OF FLOCCULANT POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

6.8. FLOCCULANT LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

6.9. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT 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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC “LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL” COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC “LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES” COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR’S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 “INSPECTOR”) (5.5.1.f).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 “INSPECTOR”).

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE “DOCUMENTATION AND PERMITS” BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR’S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.

8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER 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): _____

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☒ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
☐ CONCRETE WASHOUT
☐ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
☒ MINERAL AGGREGATES, ASPHALT
☒ EARTH
☒ LIQUID TRAFFIC STRIPING MATERIALS, PAINT
☒ ROCK
☐ CURING COMPOUND
☒ EXPLOSIVES
☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

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

10.5. HAZARDOUS WASTE (5.5.3.7.c) (8.8)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR’S ON-SITE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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.

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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	S-6

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (7.2.1.) (7.2.1.):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS

RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (5.4.)

13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 1 WEEK BY THE PROJECT EPSC INSPECTOR.

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF PERMANENT STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (7.2.).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE PERMANENT STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (5.3.4.) (7.2.1.):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (9.0.)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY PERMANENT STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE

13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN PERMANENTLY STABILIZED; AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE PERMANENT STABILIZATION IS MAINTAINED; AND

13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	S-7

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.

Scott Medlin Digitally signed by Scott Medlin Date: 2025.12.09 13:06:54 -05'00'

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

Scott Medlin

PRINTED NAME

TDOT Manager

TITLE

12/9/2025

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			
CORPS OF ENGINEERS (USACE)			
TVA 26A			
TDEC CGP			
OTHER:			

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	PROT-I-24-2(198)	S-8

17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
OUT-1		183+50 LT	-4	4.80	4.80	4.80	No	No	Cave Cove Branch	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER
POLLUTION
PREVENTION
PLAN