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 Digitally signed by Joseph DeLorenzo
 Date: 2026.01.08 11:32:28 -05'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
 7512 VOLKSWAGEN DRIVE

CHATTANOOGA, TN 37416
 PE NAME, P.E. NO.: JOSEPH LOUIS DELORENO, 125410

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-SIGN 3
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
PROPOSED LAYOUT(S)	4B – 5B

YEAR	PROJECT NO.	SHEET NO.
2026	BRZ-1185(4)	ROADWAY-SIGN 3

REV. 01/06/26:
 ADDED SHEET.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

SIGNATURE
 SHEET



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jason Ingram Digitally signed by Jason Ingram
Date: 2025.10.03 11:24:48 -04'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
7512 VOLKSWAGEN DRIVE

CHATTANOOGA, TN 37416
PE NAME, P.E. NO.: JASON MARK INGRAM, 114814

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-SIGN 2
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2

YEAR	PROJECT NO.	SHEET NO.
2025	BRZ-1185(4)	ROADWAY-SIGN 2

REV. 09/29/25:
ADDED SHEET.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jason Ingram Digitally signed by Jason Ingram
Date: 2025.09.23 09:07:49 -04'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
7512 VOLKSWAGEN DRIVE

CHATTANOOGA, TN 37416
PE NAME, P.E. NO.: JASON MARK INGRAM, 114814

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 OPERATIONS & STRUCTURE DRAWINGS	1A3
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
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S).....	3A – 3C
PRESENT LAYOUT(S).....	4 – 5
RIGHT OF WAY DETAILS.....	4A – 5A
PROPOSED LAYOUT(S)	4B – 5B
PROPOSED PROFILE(S)	4C – 5C
DRAINAGE MAP(S).....	6 – 7
CULVERT SECTION(S)	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	9, 10, 11-13A
SIGNING AND PAVEMENT MARKING PLAN(S).....	14 – 15
SIGN SCHEDULE SHEET(S).....	16
ROADWAY CROSS SECTIONS	17 – 35
TRAFFIC CONTROL PLANS	T1 – T4

YEAR	PROJECT NO.	SHEET NO.
2025	BRZ-1185(4)	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

BRADLEY COUNTY

OLD LOWER RIVER ROAD
BRIDGE OVER SOUTH MOUSE CREEK
LM 13.09

PS&E

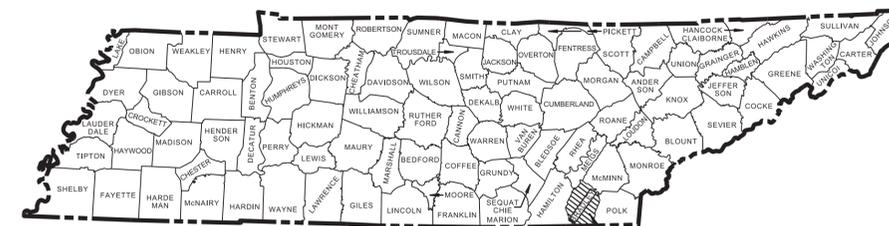
BRIDGE REPLACEMENT

STATE HIGHWAY NO. N/A U.S. ROUTE NO. N/A

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

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	BRZ-1185(4)	
STATE PROJ. NO.	06946-3435-94	

REV. 01/06/26:
REVISED DATE OF SHEET TO 2026.
THIS REVISION APPLIES TO ALL SHEETS
IN ROADWAY PLANS.



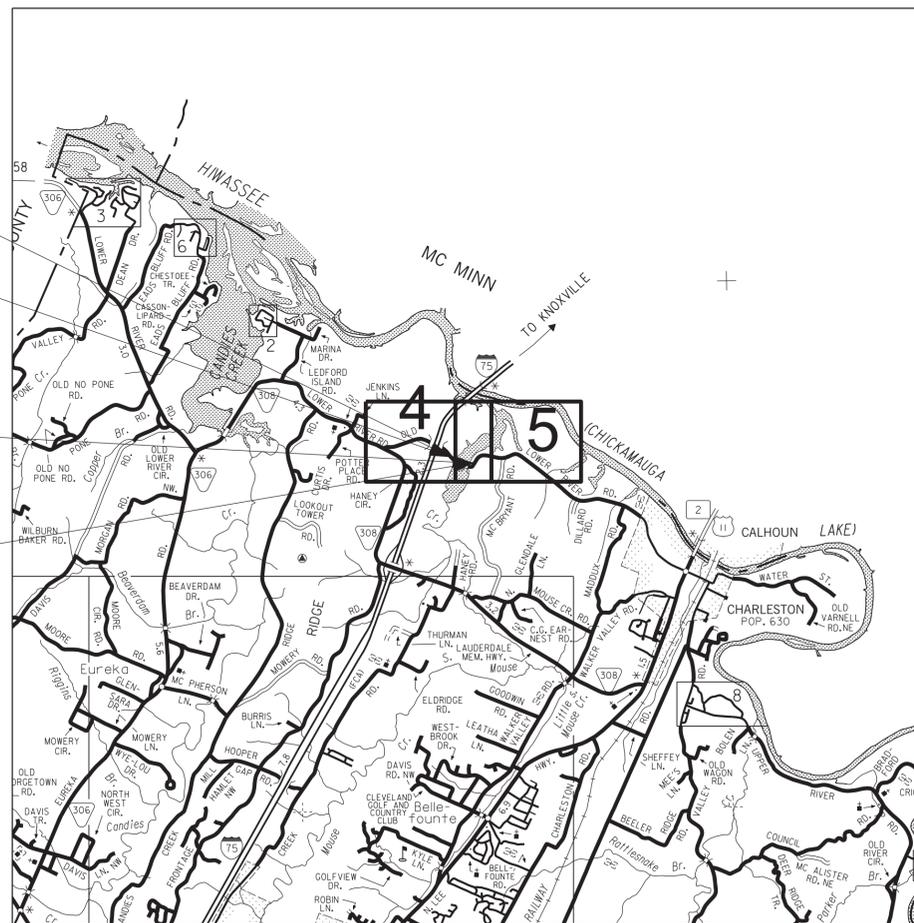
PROJECT LOCATION
BRIDGE ID. # 06011850001

06946-2435-94
BEGIN PROJECT NO. BRZ-1185(4) R.O.W.
OLDLOWERRIVERRD STA.12+00.00
N 356247.6963 E 2325529.2335

06946-3435-94
BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION
OLDLOWERRIVERRD STA.12+00.00
N 356247.6963 E 2325529.2335

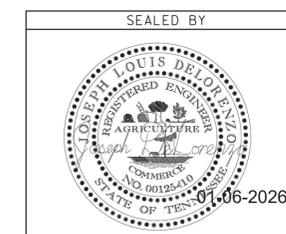
06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.
OLDLOWERRIVERRD STA.28+15.00
N 2326884.6507 E 355915.3983

06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION
OLDLOWERRIVERRD STA.28+50.00
N 2326899.9882 E 355946.8588



NO EXCLUSIONS

ROAD TO BE CLOSED
DURING CONSTRUCTION



APPROVED: *Shane Hester*
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED: *Will Reid*
WILL REID, COMMISSIONER

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER 1: ERIN WOODSON, P.E.

DESIGNER: MONTY ROBINSON, P.E. CHECKED BY: JOSEPH DELORENZO, P.E.

P.E. NO. 06946-1435-94 (DESIGN)

PIN NO. 124677.00

R.O.W. LENGTH	0.305 MILES
ROADWAY LENGTH	0.284 MILES
BRIDGE LENGTH	0.028 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.312 MILES

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

SURVEY 03-12-18	TRAFFIC DATA	
	ADT (2025)	820
SURVEY UPDATE 01/24/19	ADT (2045)	1070
SURVEY UPDATE 06/14/22	DHV (2045)	161
SURVEY UPDATE 07/25/22	D	65 - 35
SURVEY UPDATE 09/07/22	T (ADT)	5 %
SURVEY UPDATE 10/20/22	T (DHV)	3 %
	V	30 MPH

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BRZ-1185(4)	1A

REV. 09/29/25:
ADDED SHEET TO INDEX.
REV. 01/06/26:
ADDED ROADWAY-SIGN 3 TO INDEX.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN1,2,3
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
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S).....	3A – 3C
PRESENT LAYOUT(S).....	4 – 5
RIGHT-OF-WAY DETAILS	4A – 5A
PROPOSED LAYOUT(S).....	4B – 5B
PROPOSED PROFILE(S).....	4C – 5C
DRAINAGE MAP(S).....	6 – 7
CULVERT SECTION(S).....	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS.....	9, 10, 11-13A
SIGNING AND PAVEMENT MARKING PLAN(S)	14 – 15
SIGN SCHEDULE SHEET(S)	16
ROADWAY CROSS SECTIONS.....	17 – 35
TRAFFIC CONTROL PLANS	T1 – T4
BRIDGE PLANS	B-1
GEOTECHNICAL PLANS	G-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1
UTILITIES PLANS	U1-1

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

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

RD-TP-1	10-01-24	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-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
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 ROADWAY DESIGN STANDARDS

RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-TS-1A	06-28-19	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION

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

D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-SEW-1A	07-07-23	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
D-SEW-12D	07-07-23	TYPE "SAFETY" SIDE DRAIN ENDWALL WITH STEEL PIPE GRATE, FOR 18" PIPE, 12:1 SLOPE
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")

10-105.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

RP-R-1A	04-21-25	STANDARD RAMP DETAILS FOR LOW VOLUME RURAL ROADWAYS
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10-107.00 SAFETY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-7		SAFETY PLAN HARDWARE PLACEMENT AT INTERSECTIONS
S-GR31-1	03-13-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B	06-28-19	GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GR31-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK
S-GRC-6	07-07-23	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS

S-GRS-1	06-15-21	SPECIAL CASE LONG SPAN GUARDRAIL 1 POST, 2 OR 3 POSTS OMITTED
S-GRS-3	06-28-19	SPECIAL CASE GUARDRAIL FOOTING
S-GRS-8	01-30-25	SAFETY PLAN AT SIDEROADS OR DRIVEWAYS FOR LOW SPEED ROADWAYS
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-2R	06-28-19	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL (RETROFIT)
S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE

10-108.00 EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-38	08-01-12	FLOATING TURBIDITY CURTAIN

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND STANDARD
ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	1A1

STANDARD TRAFFIC DESIGN DRAWINGS

DWG. REV. DESCRIPTION

10-200.00 SIGN

T-S-9	07-30-25	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	07-30-25	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS

10-204.00 DESIGN - TRAFFIC CONTROL

T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC
DESIGN DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	1B
PS&E	2025	BRZ-1185(4)	1B

PROJECT COMMITMENTS			
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ001	ENVIRONMENTAL	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS COMPLETED ON BRIDGE NO. 06011850001, OLD LOWER RIVER RD OVER SOUTH MOUSE CREEK LM 13.09 (06-01185-13.06). NO ACM WAS DETECTED. PLEASE SEE THE REPORT FOR FURTHER DETAILS AND PHOTOGRAPHS. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING). THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TDEC DIVISION OF AIR POLLUTION CONTROL (PER TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08 D AND 202.03).	STA. 22+37.01 TO STA. 23+68.77
ETR2001	ENVIRONMENTAL	TO COMPLY WITH THE TDOT/USFWS 2015 MOA FOR IMPACTS TO CLIFF SWALLOWS (PETROCHELIDON PYRRHONOTA) AND BARN SWALLOWS (HIRUNDO RUSTICA). CLIFF SWALLOW AND BARN SWALLOW NESTS, EGGS OR BIRDS (YOUNG AND ADULTS) WILL NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS MAY BE REMOVED OR DESTROYED, AND MEASURES MAY BE IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (E.G., CLOSING OFF AREA USING NETTING).	ENTIRE PROJECT
EDPO001	ENVIRONMENTAL	THE FOLLOWING ENVIRONMENTAL COMMITMENT IS BEING MADE IN REGARD TO THE CHICKAMAUGA RESERVOIR AND IS IN COMPLIANCE WITH THE APPROVED AUGUST 2024 SECTION 4(F) DE MINIMIS USE DETERMINATION: A) IF, DURING SUBSEQUENT PROJECT DEVELOPMENT PHASES, THE DESIGN FEATURES ASSOCIATED WITH THE CHICKAMAUGA RESERVOIR ARE MODIFIED FROM WHAT IS STATED IN THE APPROVED AUGUST 2024 DETERMINATION OF SECTION 4(F) DE MINIMIS USE, THE TDOT ENVIRONMENTAL DIVISION IS TO BE NOTIFIED IMMEDIATELY IN WRITING AT TDOT.ENV.NEPA@TN.GOV.	ENTIRE PROJECT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT
COMMITMENTS

9/29/2025 12:21:12 PM M:\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\002_RdwyQuantities.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	2

REV. 09/29/25:
REMOVED ITEM 203-01.29, ADDED 30 CY TO ITEM 203-01, AND REVISED FN 18 TO INCLUDE "30 CY FOR ROCK EXCAVATION".

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
			06946-3435-94
	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	CLEARING AND GRUBBING	LS	1
	REMOVAL OF PIPE (15", STA. 27+62.70)	L.F.	42
1) 18)	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	4439
2) 1)	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	4551
	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	17
	PLACING AND SPREADING TOPSOIL	C.Y.	149
3) 4)	FILTER SOCK (8 INCH)	L.F.	1175
3) 4)	SEDIMENT REMOVAL	C.Y.	37
3) 4) 5)	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	165
3) 4)	ROCK CHECK DAM PER	EACH	1
3) 4)	ENHANCED ROCK CHECK DAM	EACH	1
3) 4)	SEDIMENT FILTER BAG (15'X15')	EACH	4
3) 4)	TURBIDITY CURTAIN (STA 23+58 TO STA 28+05)	L.F.	400
4)	TEMPORARY IN STREAM DIVERSION	L.F.	320
	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1144
1) 3) 4) 6)	MINERAL AGGREGATE (SIZE 57)	TON	44
7)	MINERAL AGGREGATE (SIZE 4)	TON	102
	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	234
	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	3
1) 4)	AGGREGATE FOR COVER MATERIAL (PC)	TON	12
	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	22
	ACS MIX(PG64-22) GRADING D	TON	294
	COLD PLANING BITUMINOUS PAVEMENT	TON	141
	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	39
	18" PIPE CULVERT (SIDE DRAIN)	L.F.	56
	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	1
	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	45
	18IN ENDWALL (SIDE DRAIN) 6:1	EACH	1
	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	EARTH PAD FOR GUARD RAIL END TREATMENT	EACH	3
9)	GUARDRAIL DELINEATION ENHANCEMENT (BI-DIRECTIONAL)	L.F.	2365
9)	W BEAM GR (TYPE 2) MASH TL3	L.F.	1228
9)	W BEAM GR (TYPE 2) MASH TL3 (LONG POST)	L.F.	1020
	GR TERMINAL (IN-INLINE) MASH TL3	EACH	1
	THREE BEAM BRIDGE TRANSITION MASH TL-2	EACH	4
	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH	3
	RADIUS RAIL	L.F.	36
	ROUNDED END ELEMENT	EACH	1
	STOCK FENCE GATE (14 FOOT)	EACH	1
	REMOVAL OF FENCE (BARBED WIRE)	L.F.	240
	FENCE (4-STRAND BARBED WIRE)	L.F.	44
4) 13)	MACHINED RIP-RAP (CLASS A-3)	TON	152
1) 4) 10)	MACHINED RIP-RAP (CLASS A-1)	TON	214
1) 4) 11)	MACHINED RIP-RAP (CLASS B)	TON	54
1) 4) 12)	MACHINED RIP-RAP (CLASS C)	TON	2719
	TRAFFIC CONTROL	LS	1
	WARNING LIGHTS (TYPE A)	EACH	6
	SIGNS (CONSTRUCTION)	S.F.	245
	TEMPORARY BARRICADES (TYPE III)	L.F.	60
	SIGN POST DELINEATION ENHANCEMENT	L.F.	55
	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	439
	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	50
	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	18
	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	20
	ENHANCED FLATLINE THERMO PVTM MRKNG (4IN LINE)	L.M.	1.3

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
			06946-3435-94
717-01	MOBILIZATION	LS	1
740-07.04	GEOGRID REINFORCEMENT TYPE 2	S.Y.	1120
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	501
1) 4) 15)	740-10.04 GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	3050
16)	801-01.38 NATVE SEED MX FINAL STABLIZATN OF SLOPES	UNIT	19.3
3) 4) 17)	801-03 WATER (SEEDING & SODDING)	M.G.	9
3) 4)	803-01 SODDING (NEW SOD)	S.Y.	541

FOOTNOTES

- (1) SEE GRADING SPECIAL NOTES ON SHEET 2D.
- (2) INCLUDES 3514 TONS FOR SLIDE REPAIR. (SEE G-SHEETS FOR DETAILS.) TO BE USED IN ROAD
- (3) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (4) ITEM TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) ITEM INCLUDES 211 SY TO BE USED FOR PLACEMENT OF SPECIAL DITCH FROM STA. 25+50 TO 28+00.
- (6) INCLUDES 20 TONS FOR PRIVATE DRIVE TO TRACT 2A, AND 24 TONS FOR SEDIMENT FILTER BAGS.
- (7) QUANTITY INCLUDES 50 TONS TO BE USED FOR SLIDE REPAIR. (SEE G-SHEETS FOR DETAILS.)
- (8) TO BE PLACED AT 3' ON CENTER.
- (9) ITEM TO INCLUDE ALL COST OF MATERIALS AND INSTALLATION INCLUDING IN AREAS WHERE RIPRAP & GRADED SOLID ROCK ARE PRESENT.
- (10) TO BE USED FOR DITCH LINING.
- (11) TO BE USED AT CROSS DRAIN OUTFALL FOR SCOUR PREVENTION AT STA 27+60, 25'L x 11"W.
- (12) INCLUDES 1173 TONS AT BRIDGE ENDS NOT SHOWN IN CROSS SECTIONS.
- (13) ITEM IS INCLUDED FOR THE APPLICATION OF TEMPORARY CONSTRUCTION EXITS. TEMPORARY CONSTRUCTION EXITS ARE TO BE PLACED AS DIRECTED BY THE TDOT ENGINEER.
- (14) INCLUDES 161 SY FOR EPSC AND 131 SY FOR TEMPORARY CONSTRUCTION EXITS AND TO BE AS DIRECTED BY THE ENGINEER.
- (15) INCLUDES 1380 SY TO BE USED FOR SLIDE REPAIR. (SEE G-SHEETS FOR DETAILS)
- (16) PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.
- (17) INCLUDES 1 MG (ONE THOUSAND GALLONS) FOR EPSC.
- (18) INCLUDES 2856 CY FOR SLIDE REPAIR & 30 CY ROCK EXCAVATION (SEE G-SHEETS FOR DETAILS.)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

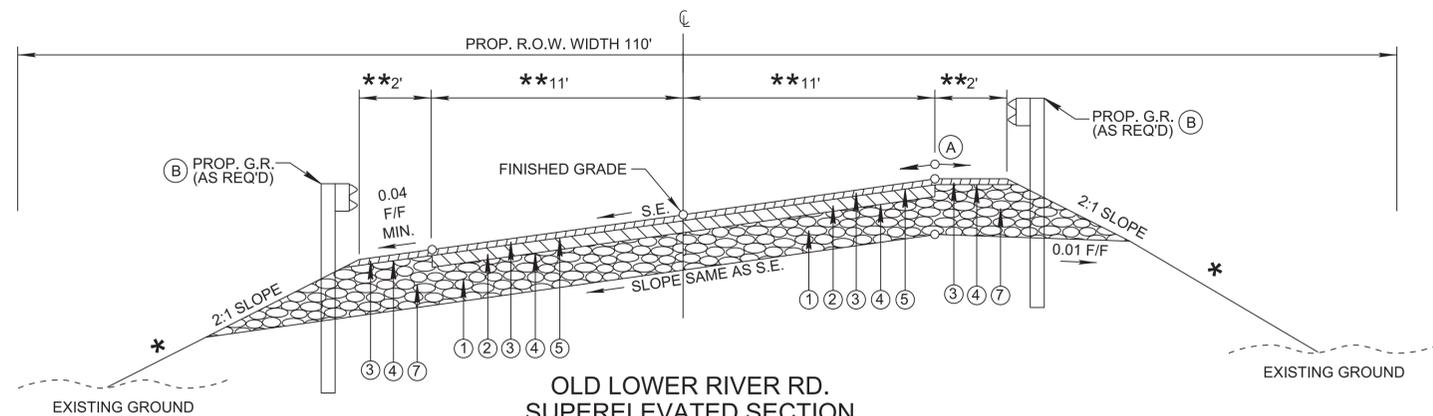
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	2B
PS&E	2025	BRZ-1185(4)	2B

REV. 11/09/22:
ADDED SPECIAL DITCH DETAILS.
ADDED NOTE 'B' FOR G.R. POSTS.
ADDED G.R. POST TO TYPICAL SECTION.

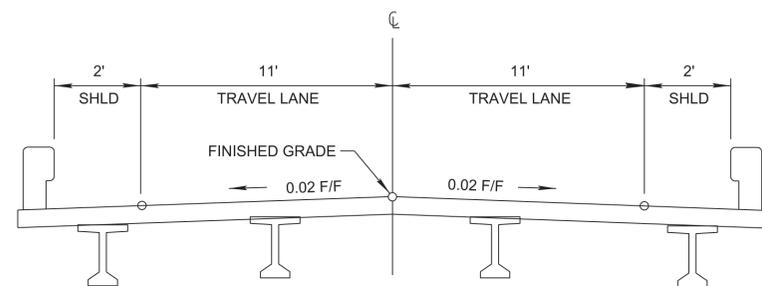
REV. 01/20/23:
CONSOLIDATED SPECIAL DITCH DETAIL &
REVISED DIMENSIONS.

REV. 05/02/23:
REVISED SPECIAL DITCH DETAIL TO
INCLUDE RIP-RAP LINING.

REV. 01/11/24:
REVISED TYPICAL BRIDGE SECTION.



**OLD LOWER RIVER RD.
SUPERELEVATED SECTION**
(BASED ON STD. DWG. RD11-TS-1A)
STA. 20+27.28 - STA. 22+28.68
STA. 23+77.20 - STA. 28+00.00



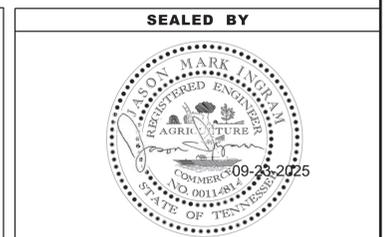
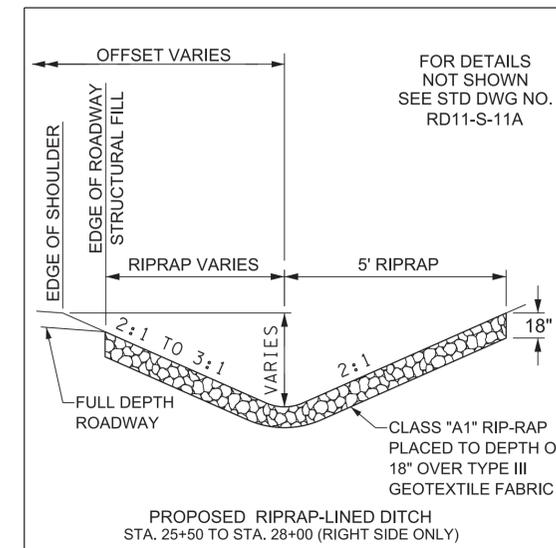
**OLD LOWER RIVER RD.
TYPICAL BRIDGE SECTION**
STA. 22+28.68 - STA. 23+77.20 (BRIDGE SPAN)

*SIDE SLOPE TREATMENT			
STATION RANGE	RT	LT	MATERIAL
20+06.00 TO 21+66.00	X	X	GRADED SOLID ROCK
21+66.00 TO 22+89.00	X	X	GRADED SOLID ROCK & RIP-RAP CLASS "C"
22+89.00 TO 22+54.00	X	X	BRIDGE ABUTMENT AND RIP-RAP CLASS "C" (SEE BRIDGE PLANS)
23+46.50 TO 24+50.00	X	X	BRIDGE ABUTMENT AND RIP-RAP CLASS "C" (SEE BRIDGE PLANS)
24+50.00 TO 25+00.00	X	X	RIP-RAP CLASS "C"
25+00.00 TO 27+50.00		X	GRADED SOLID ROCK

** TRANSITION SECTIONS WIDTHS (FT)				
STATION	LT RDWY	LT SHLD	RT RDWY	RT SHLD
STA. 20+27.28	11.0	0.0	11.0	0.0
STA. 20+37.28	11.0	2.0	11.0	2.0
STA. 27+50.00	11.0	2.0	11.0	2.0
STA. 28+00.00	10.2	0.0	10.4	0.0

PROPOSED PAVEMENT SCHEDULE

<p>① MINERAL AGGREGATE BASE (10") 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"</p>	<p>④ PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8 - 12 LBS/SY</p>
<p>② BITUMINOUS BINDER (2") (APPROX. 226 LBS/SY) 307-01.08 ASPHALT CONCRETE MIX (64-22) (BPMB-HM) GRADING "B-M2"</p>	<p>⑤ TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD)</p>
<p>③ ASPHALTIC CONCRETE SURFACE (1.25") (APPROX. 132.5 LBS/SY) 411-01.10 ACS MIX (PG 64-22) GRADING "D"</p>	<p>⑥ COLD PLANING @ 1.25" +/- (APPROX. 131.25 LBS/SY) 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (TON)</p>
	<p>⑦ MINERAL AGGREGATE BASE (12") 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"</p>



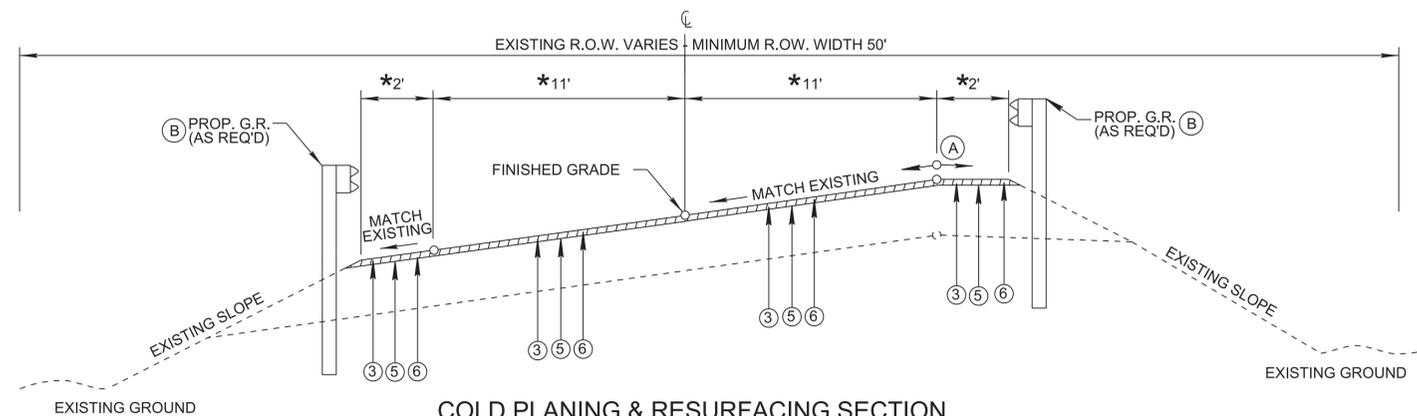
NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	2B1
PS&E	2025	BRZ-1185(4)	2B1

REV. 11/09/22:
 ADDED NOTE 'B' FOR G.R. POSTS.
 ADDED G.R. POST TO TYPICAL SECTION.



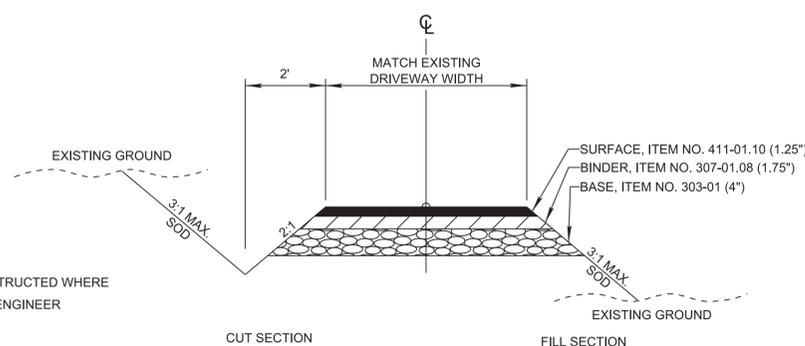
COLD PLANING & RESURFACING SECTION

STA. 12+00.00 - STA. 20+27.28
 STA. 28+00.00 - STA. 28+50.00

* TRANSITION SECTIONS WIDTHS (FT)				
STATION	LT RDWY	LT SHLD	RT RDWY	RT SHLD
STA. 12+00.00	10.6	0.0	10.2	0.0
STA. 12+50.00	11.0	0.0	11.0	0.0
STA. 28+00.00	10.2	0.0	10.4	0.0
STA. 28+50.00	10.3	0.0	10.3	0.0

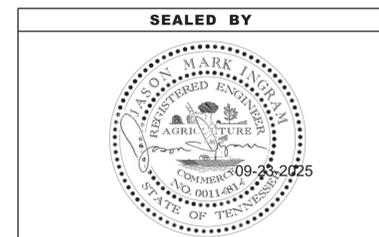
- (A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.
- (B) GUARDRAIL POSTS PLACED IN SLOPES OF 6:1 OR STEEPER SHALL BE 8' LONG AND PAID FOR IN GUARDRAIL LENGTH, PAY ITEM 705-06.02.

SEE SHEET 2B FOR PAVEMENT SCHEDULE



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION (PRIVATE DRIVE)



NOT TO SCALE

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	BRZ-1185(4)	2C
PS&E	2025	BRZ-1185(4)	2C

GENERAL NOTES

GRADING

- ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- 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

- 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.

GUARDRAIL

- GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

- THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- EXCAVATION FOR PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- 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).
- DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

FENCING

- THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS A TWO-WEEK NOTICE PRIOR TO CUTTING FENCES.
- THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

- ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

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

FINAL PAVEMENT MARKING

- 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

- BEFORE OPENING THE DETOUR TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. 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.

PAVEMENT

PAVING

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

RESURFACING

- WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.
- IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE ENGINEER.

GRADED SOLID ROCK

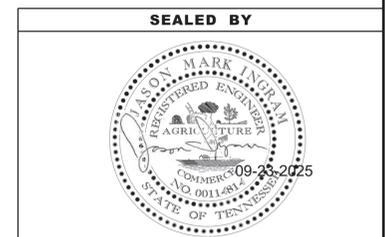
- THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN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

SIGNING

- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.
- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL OPERATIONS OFFICE.
- ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- 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.
- 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.
- 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.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.
- 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.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	2D

GRADING

- (1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.
- (2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- (3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.
- (4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- (5) EARTHWORK IS PAID FOR UNDER ITEM NOs. 203-01 AND 203-01.01, 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.

DEMOLITION

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

- (1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).
- (2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.
- (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL
NOTES

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- (8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

- (10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO

LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

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

PERMITS, PLANS & RECORDS

- (13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

SUPPORT ACTIVITIES

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

ENVIRONMENTAL

- (19) 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

ECOLOGY

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- (2) 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.
- (3) 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.

PROJECT COMMITMENTS

- (4) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SCOPE OF WORK

- (5) REPLACEMENT OF EXISTING BRIDGE WITH NEW SINGLE-SPAN BRIDGE, INSTALLATION OF NEW GUARDRAIL, AND DRAINAGE OF OLD LOWER RIVER ROAD.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	2E
PS&E	2025	BRZ-1185(4)	2E

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL
NOTES

22-SEP-2025 10:53 \\ttdot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck1002F.sht

SIDE DRAIN ENDWALLS							
LOCATION	STATION	OFFSET (FT.)	TYPE	STANDARD DRAWING NO.	SKEW	ENDWALLS	
						18 IN. 6:1	18 IN. 3:1
						611-07.31 (EACH)	611-07.54 (EACH)
OLD LOWER RIVER ROAD	26+00	20.30	U	D-PE-18A, D-PE-18B	90°		1
OLD LOWER RIVER ROAD	26+52	19.80	SEW	D-SEW-1A, D-PE-18A, D-PE-18B	90°	1	
TOTALS						1	1

PAVEMENT QUANTITIES							
LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)						COLD PLANING (TON)
	MINERAL AGG. D	BITUMINOUS PLANT BASE (HOT MIX) B-M2	PRIME COAT		TACK COAT	ASPHALTIC CONC. SURFACE (HOT MIX) D	
			402-01	402-02			
	303-01	307-01.08	402-01	402-02	403-01	411-01.10		415-01.01
OLD LOWER RIVER ROAD	1116.0	221.0	3.0	11.9	22.0	286.0	140.5
PVT DR TRACT 2A	27.6	12.1				8.1	
TOTALS	1144	234	3	12	22	294	141

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	2F
PS&E	2025	BRZ-1185(4)	2F

REV. 11/09/22:
 UPDATED THE FOLLOWING:
 ESTIMATED GRADING QUANTITIES.
 SIDEDRAIN ENDWALLS & TABULATION.
 CROSSDRAIN ENDWALLS & TABULATION.
 PROPOSED GUARDRAIL.
 REMOVAL OF STRUCTURES.

REV. 05/02/23:
 UPDATED ESTIMATED GRADING QUANTITIES FOR ROADSIDE DITCHES & SLOPES, AND ROCK QUANTITIES.
 UPDATED TOPSOIL TABULATION.

CROSS DRAIN TABULATION												
STATION	SKEW	RCP CLASS III OR CMP 14 GA OR PVC OR SRTRP OR HDPE OR PP FILL HEIGHT ≤ 16 FT. (L.F.)						END TREATMENT				REMARKS
		INLET			OUTLET			TYPE	DRAWING NO.	TYPE	DRAWING NO.	
		18"	24"	30"	36"	42"	48"					
27+62.70	83°25'28"	39						U	D-PE-18A; D-PE-18B	ST	D-PE-4	607-03.02
TOTALS		39										Pipe Tabulation For Cross Drain on Local Roadway

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.			
MAINLINE	1254	11	1066	SHRINK = 15 % SWELL = 15 % EXC. EMB. 1166 VS 17 AVAILABLE = 1183 WASTE MATERIAL = 1361 BORROWROCK = 677		
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	1	6	1			
ROADSIDE SLOPES & DITCHES	106		91			
TEMPORARY CONSTRUCTION EXITS						
SIDE ROADS						
TOPSOIL (EMB.)						
TOPSOIL (EXC.)	192					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)	TOTALS (C.Y.)					
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
30	588	1553	17	1523	1331	1166

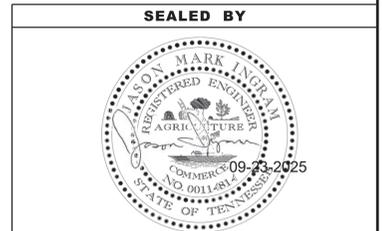
CROSS DRAIN ENDWALLS										
LOCATION	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS	PROTECTED ENDWALLS		SAFETY
							B	CLASS "A" CONCRETE	STEEL BAR REINFORCING	18 IN.
OLD LOWER RIVER ROAD	27+64.50	15.4	83°25'28"	EW-1	U	D-PE-18A, D-PE-18B	709-05.08 (TON)	611-07.01 (C.Y.)	611-07.02 (LB.)	611-07.54 (EACH)
OLD LOWER RIVER ROAD	27+60.10	-23.3	90°	EW-2	ST	D-PE-4	54	1.0	45	
TOTALS							54	1.0	45	1

SIDE DRAIN TABULATION																
STATION	LOCATION		DESCRIPTION	SURFACE WIDTH FT.	SKEW	RCP CLASS III OR CMP 16 GA OR PVC OR SRTRP OR HDPE OR PP FILL HEIGHT ≤ 10 FT. (L.F.)						END TREATMENT		REMARKS		
	LT.	RT.				INLET			OUTLET							
	18"	24"				30"	36"	42"	48"	TYPE	DRAWING NO.	TYPE	DRAWING NO.			
25+99.36 TO 26+51.77		X	TRACT 2A	47	90°	56						SEW	D-SEW-1A	U	D-PE-18A	607-39.02
TOTALS						56										Pipe Tabulation For Private Drive Entrance

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.
8031	192	0	192	149	149	0	43

PROPOSED GUARDRAIL												
SHEET NO.	LOCATION	SIDE		STATIONS		THRIE BEAM BRIDGE TRAN. MASH TL-2 (11.365')	W BEAM GR (TYPE 2) MASH TL3 (L.F.)	W BEAM GR (TYPE 2) (LONG POST) MASH TL3 (L.F.)	RADIUS RAIL	ROUND END ELEMENT	GUARDRAIL TERMINAL (TYPE-IN-LINE)	TYPE 21 MASH TL2 (21.875')
		LT	RT	FROM	TO	705-06.26 EACH	705-06.01 (L.F.)	705-06.02 (L.F.)	706-06.03 (L.F.)	706-10.26 (EACH)	705-06.11 (EACH)	705-06.30 (EACH)
4B	OLD LOWER RIVER ROAD		X	12+53.00	22+09.18	1	681.47	250.00				1
4B	OLD LOWER RIVER ROAD	X		14+12.00	22+09.18	1	206.32	550.00				1
5B	OLD LOWER RIVER ROAD		X	23+96.70	25+90.05	1	191.20					
5B	OLD LOWER RIVER ROAD	X		23+96.70	28+15.56	1	149.02	220.00				1
5B	PVT DR TRACT 2A		X	0+11.58	0+49.06				36	1	1	
TOTALS						4	1228	1020	36	1	1	3

RIPRAP DITCHES				
ROADWAY	STATION		SIDE	MACHINED RIPRAP CLASS A1 709-05.06 (TON)
	FROM	TO		
OLD LOWER RIVER ROAD	25+50.11	25+93.81	RT	53.0
OLD LOWER RIVER ROAD	26+62.92	28+00.00	RT	161.0
TOTALS				214



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	3
PS&E	2025	BRZ-1185(4)	3

RIGHT-OF-WAY

- (1) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (2) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (3) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (5) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (6) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

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.
- (6) NO WORK SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS STREAM/WETLAND MITIGATION RIGHT-OF-WAY OR MITIGATION AREA. NO UTILITY RELOCATION OR OTHER LAND DISTURBANCE IS AUTHORIZED. ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM/WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE STREAM MITIGATION PLANS (ADD PLAN SHEET NUMBERS HERE). ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH THE ENVIRONMENTAL PERMIT REQUIREMENTS.

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, LOCATIONS, 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

UTILITY OWNERS

SEWER:

CLEVELAND UTILITIES

2450 GUTHRIE DRIVE NW

CLEVELAND, TN 37311

CONTACT: BRIAN SELLS

OFFICE PHONE: 423 472 4521

Email: bsells@clevelandutilities.com

ELECTRIC:

VOLUNTEER ENERGY COOPERATIVE

18359 HWY 58 NORTH

DECATUR, TN 37322

CONTACT: MATTHEW TEAGUE, PRESIDENT

OFF: (423) 334-7040

FAX: (423) 334-7005

Email: mteague@vec.org

TELEPHONE:

BELLSOUTH dba AT&T

300 E MARTIN LUTHER KING BLVD

5TH FLOOR

CHATTANOOGA, TN 37403

CONTACT: JOE PERREL

OFFICE PHONE: 423 266 1566

CELL PHONE: 423 488 2825

Email: Jp1389@att.com

CATV:

CHARTER COMMUNICATIONS

851 S. WILLOW AVENUE, SUITE 206

COOKEVILLE, TN 38501

CONTACT: MORGAN WILCHER

CELL PHONE: 931 239 9222

Email: Morgan.Wilcher@charter.com

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DEPARTMENT OF TRANSPORTATION

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	3A
PS&E	2025	BRZ-1185(4)	3A

REV. 01/13/22:
TRACT 3A - UPDATED TOTAL TRACT AREA

REV. 02/03/22:
TRACT 4 - UPDATED PROPERTY OWNER

REV. 08/04/22:
TRACTS 2, 2A, 2B, 3, 3A, 4, 5,
UPDATED BOUNDARY SURVEY,
AND REVISED ACQUISITION AREAS.

REV. 11/09/22:
ADDED FOOTNOTE LABELS TO
CONSTRUCTION EASEMENTS.
REMOVED CONSTRUCTION EASEMENT
TOTALS FROM TRACTS 2 & 2B.
REVISED EASEMENT TOTALS FOR
TRACTS 2A, 3A, 4, AND 5.

REV. 01/20/23:
REVISED EASEMENT TOTAL FOR
TRACT 4.

REV. 01/26/23:
UPDATED PROPERTY OWNER FOR
TRACT 5.

REV. 03/03/23:
TRACTS 2 & 2B - REMOVED ACQUISITION
& LINED THROUGH.
TRACTS 2A, 3, 3A, & 4 - UPDATED R.O.W.
ACQUISITION.
TRACT 4 - UPDATED CONSTRUCTION
EASEMENT.
TRACTS 2, 2A, 2B, 3, 3A, & 5 - UPDATED
TOTAL TRACT AREAS.

REV. 05/02/23:
TRACTS 3 & 3A - REMOVED ACQUIRED
ACRES AND ADDED PERMANENT
EASEMENT.

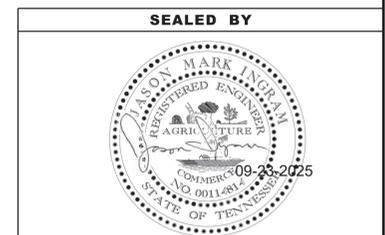
REV. 08/24/23:
TRACT 4 - UPDATED ACQUIRED ACRES
AND CONSTRUCTION EASEMENT.

REV. 05/31/24:
TRACT 3 & 3A - UPDATED PERMANENT
EASEMENTS.

R.O.W. ACQUISITION TABLE																	
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
2	State of Tennessee	010				6.932	6.932				6.932						
2A	State of Tennessee	010				1.179	1.179		3288 S.F.	3288 S.F.		1.104			1187 S.F. (1)(2)		
2B	State of Tennessee	010				0.693	0.693				0.693						
3	T.V.A.	010				54.535	54.535				54.535	0.190		0.216 (2)			
3A	T.V.A.	010			71.534	71.534					71.534	0.310		0.257 (1)(2)			
3F	T.V.A.	010			8.200	8.200					8.200						
4	The Industrial Developmental Board of the County of Bradley and the City of Cleveland, TN	010	28.00	1890	306	528.910	528.910		3917 S.F.	3917 S.F.		528.820			3499 S.F. (2)		
5	Olin Mathieson Chemical Corporation	010	009.00	2244	42	5.633	5.633	0.132		0.132	5.501				338 S.F. (1)(2)		
ACQUISITION TOTALS (ACRES)									0.298					0.500		0.588	

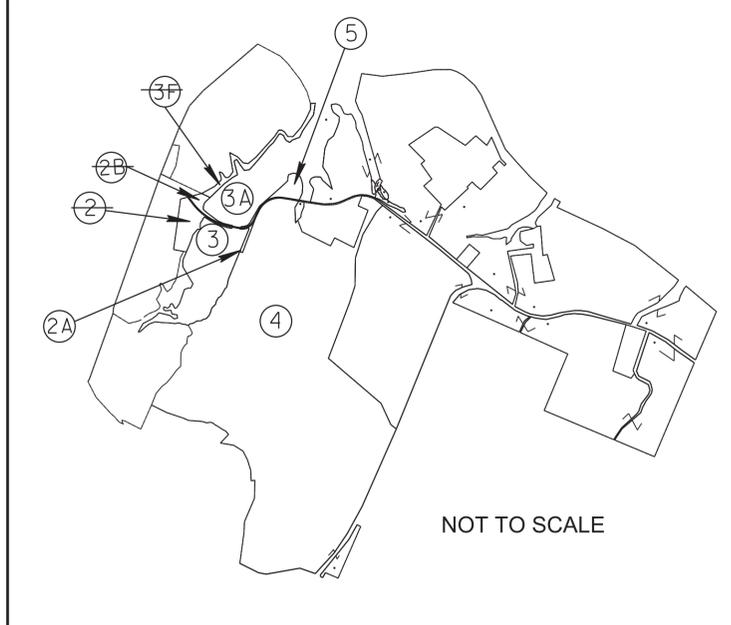
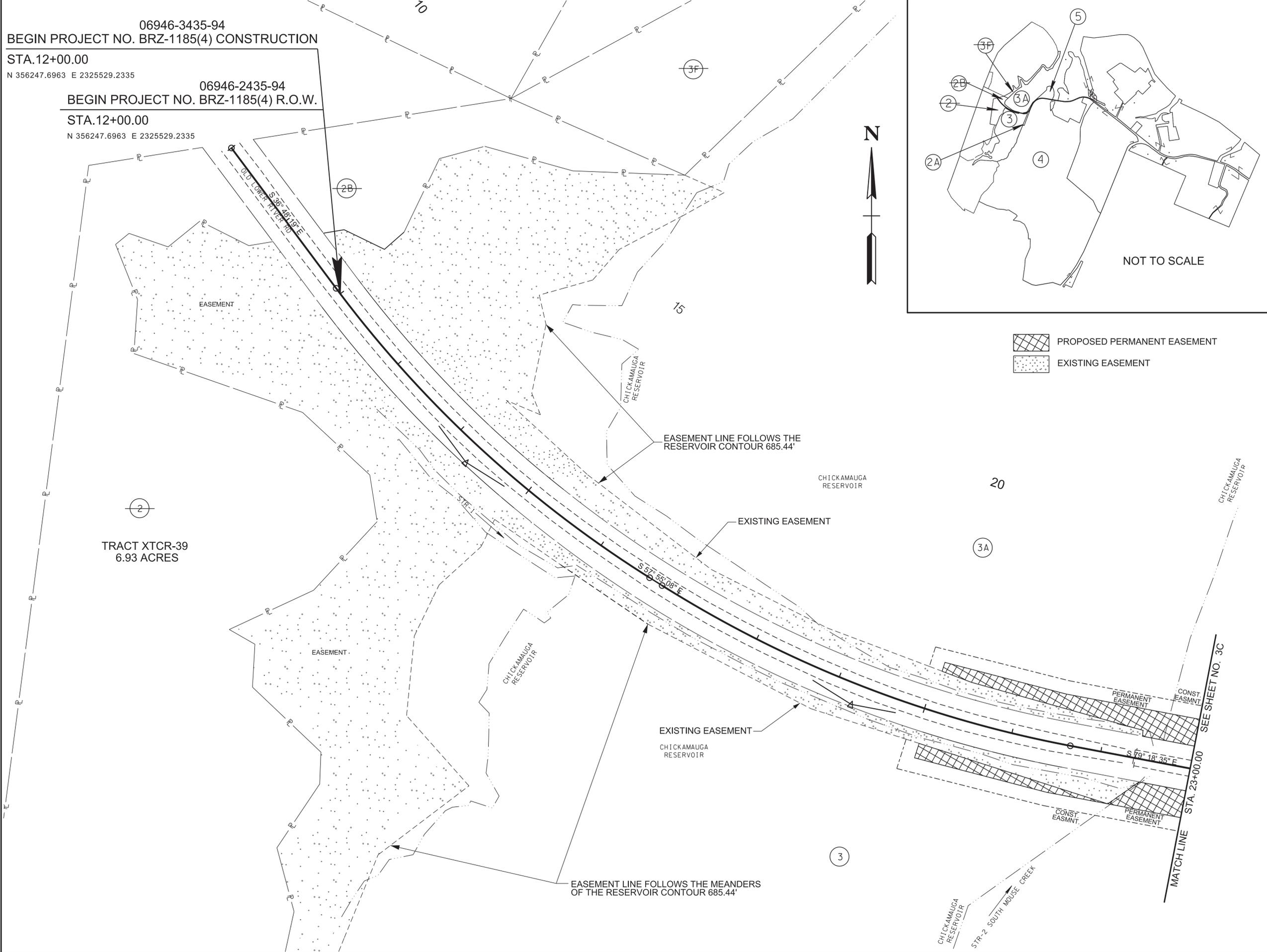
FOOTNOTES:	
①	FOR CONSTRUCTION OF GUARDRAIL TERMINAL EARTH PAD.
②	FOR CONSTRUCTION OF PROPOSED BRIDGE AND APPROACHES

DISTURBED AREA		
IN BETWEEN SLOPE LINES	1.252	(AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.820	(AC)
WATER DIVERSION FOR PIER REMOVAL	0.083	(AC)
TOTAL DISTURBED AREA	2.155	(AC)
TOTAL PROJECT AREA	3.813	(AC)



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**RIGHT-OF-WAY
ACQUISITION
TABLE**



- PROPOSED PERMANENT EASEMENT
- EXISTING EASEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	3B
PS&E	2025	BRZ-1185(4)	3B

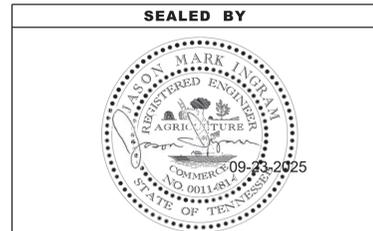
REV. 08/04/22:
TRACTS 2, 2B, 3, 3A
UPDATED BOUNDARY SURVEY

REV. 11/09/22:
REMOVED CONSTRUCTION EASEMENT
FROM TRACTS 3 AND 3A FROM
STA 12+00 TO STA 15+00.
REVISED CONSTRUCTION EASEMENT
LINE NEAR STA 20+00 FOR
TRACTS 3 AND 3A.

REV. 01/20/23:
DISPLAYED SLOPE LINES.

REV. 05/02/23:
TRACTS 3 & 3A - REMOVED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.
LINED THRU TRACTS 2 & 2B.

22-SEP-2025 10:54 \\tdot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\003B.sht



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPERTY
MAP**

STA.12+00 TO STA.23+00
SCALE: 1"=50'

22-SEP-2025 09:34 \\fdot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\003C.sht

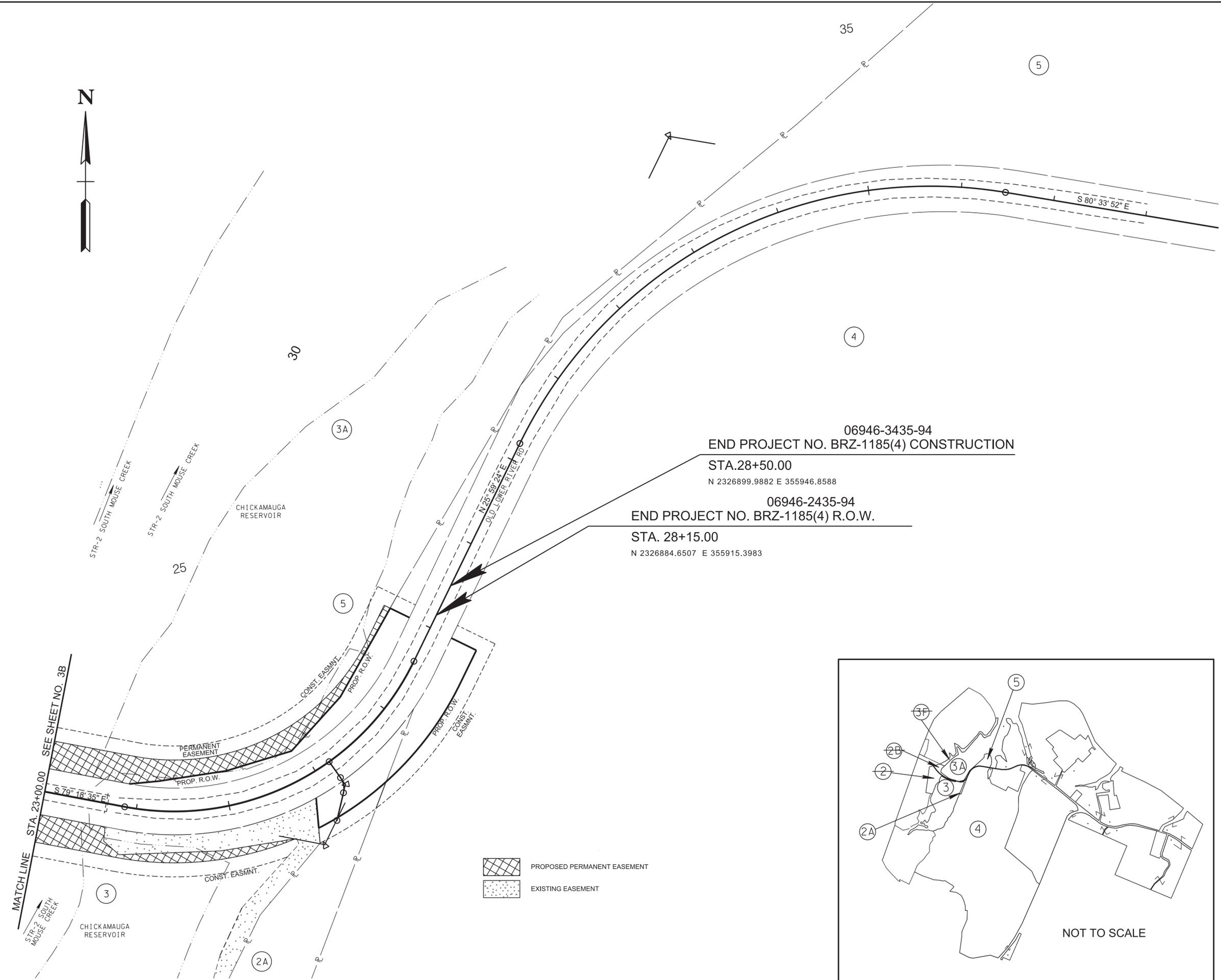
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	3C
PS&E	2025	BRZ-1185(4)	3C

REV. 08/04/22:
TRACTS 2A, 3, 3A, 4, 5
UPDATED BOUNDARY SURVEY

REV. 11/09/22:
REVISED CONSTRUCTION EASEMENT
LINE FOR TRACT 3 NEAR STA 25+40.

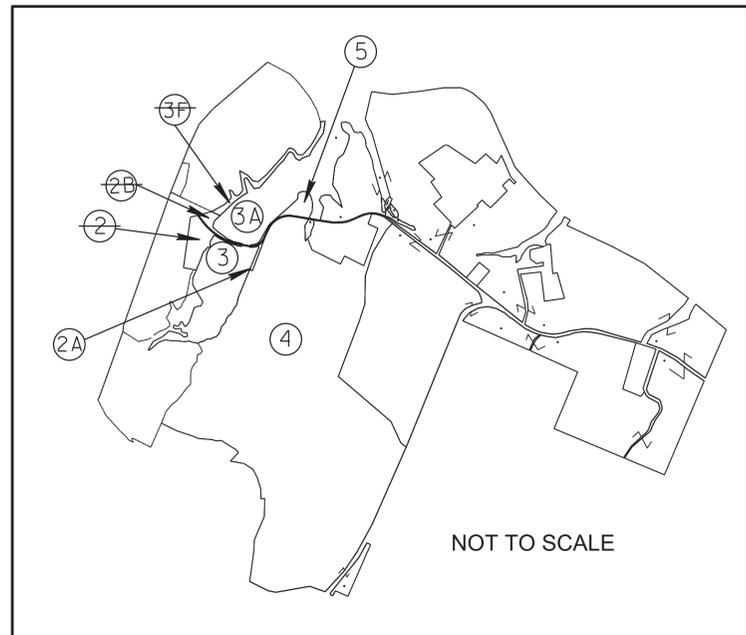
REV. 01/20/23:
DISPLAYED SLOPE LINES.

REV. 05/02/23:
TRACTS 3 & 3A - UPDATED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.
LINED THRU TRACTS 2 & 2B.



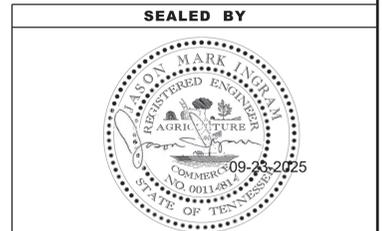
06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION
STA.28+50.00
N 2326899.9882 E 355946.8588

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.
STA. 28+15.00
N 2326884.6507 E 355915.3983



 PROPOSED PERMANENT EASEMENT

 EXISTING EASEMENT

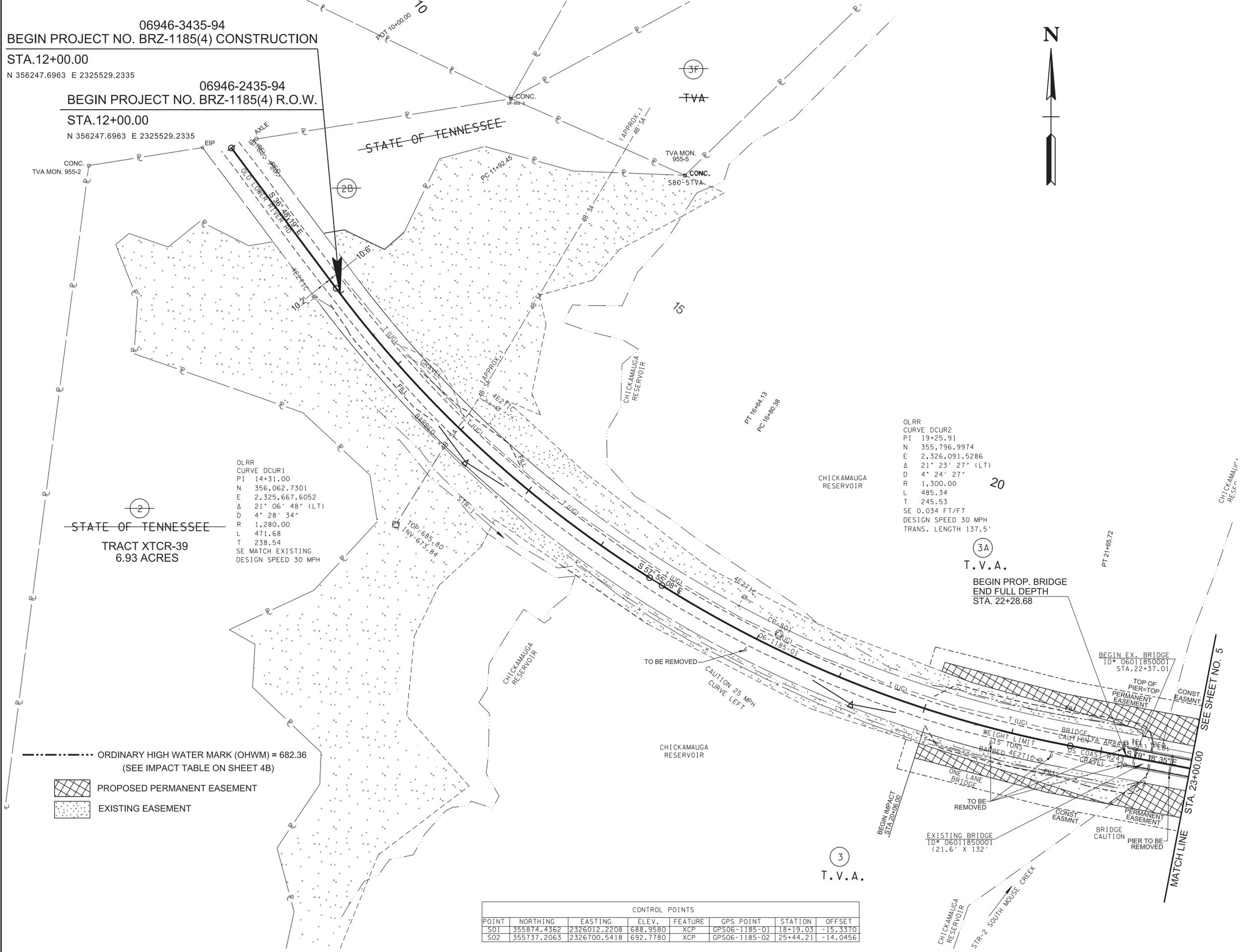


COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

STA.23+00 TO STA.28+50
SCALE: 1"=50'



06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION
 STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.
 STA.12+00.00
 N 356247.6963 E 2325529.2335

OLRR
 CURVE DCUR1
 PI 14+31.00
 N 356,062.7301
 E 2,325,667.6052
 Δ 21° 06' 48" (LT)
 D 4' 28' 34"
 R 1,280.00
 L 471.68
 T 238.54
 SE MATCH EXISTING
 DESIGN SPEED 30 MPH

STATE OF TENNESSEE
 TRACT XTCR-39
 6.93 ACRES

OLRR
 CURVE DCUR2
 PI 19+25.91
 N 355,796.9974
 E 2,326,091.5286
 Δ 21° 23' 27" (LT)
 D 4' 24' 27"
 R 1,300.00
 L 485.34
 T 245.53
 SE 0.034 FT/FT
 DESIGN SPEED 30 MPH
 TRANS. LENGTH 137.5'

----- ORDINARY HIGH WATER MARK (OHWM) = 682.36
 (SEE IMPACT TABLE ON SHEET 4B)

PROPOSED PERMANENT EASEMENT
 EXISTING EASEMENT

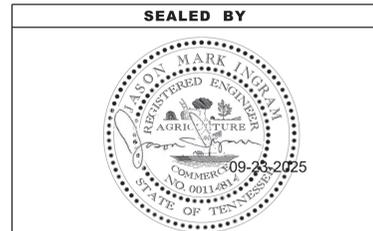
POINT	NORTHING	EASTING	ELEV.	FEATURE	GPS POINT	STATION	OFFSET
S01	355874.4362	2326012.2208	688.9580	XCP	GPS06-1185-01	18+19.03	-15.3370
S02	355737.2063	2326700.5418	692.7780	XCP	GPS06-1185-02	25+44.21	-14.0456

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	4
PS&E	2025	BRZ-1185(4)	4

REV. 08/04/22:
 TRACTS 2, 2B, 3, 3A
 UPDATED BOUNDARY SURVEY

REV. 11/09/22:
 UPDATED BEGIN PROP. BRIDGE
 LABEL & STATIONING.
 REMOVED CONSTRUCTION EASEMENT
 FROM TRACTS 3 AND 3A FROM
 STA 12+00 TO STA 15+00.
 REVISED CONSTRUCTION EASEMENT
 LINE NEAR STA 20+00 FOR
 TRACTS 3 AND 3A.

REV. 05/02/23:
 TRACTS 3 & 3A - REMOVED PROPOSED
 R.O.W. AND ADDED PERMANENT
 EASEMENT.
 LINED THRU TRACTS 2 & 2B.



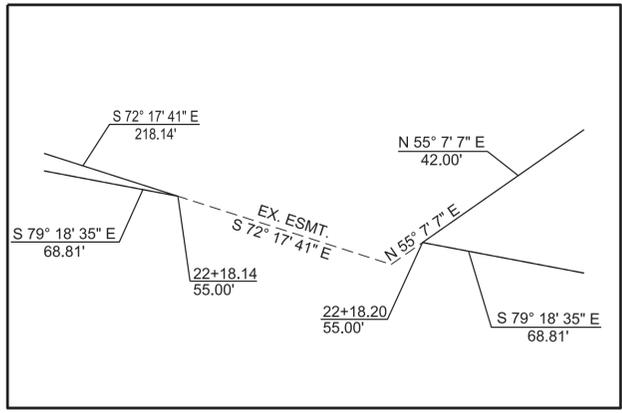
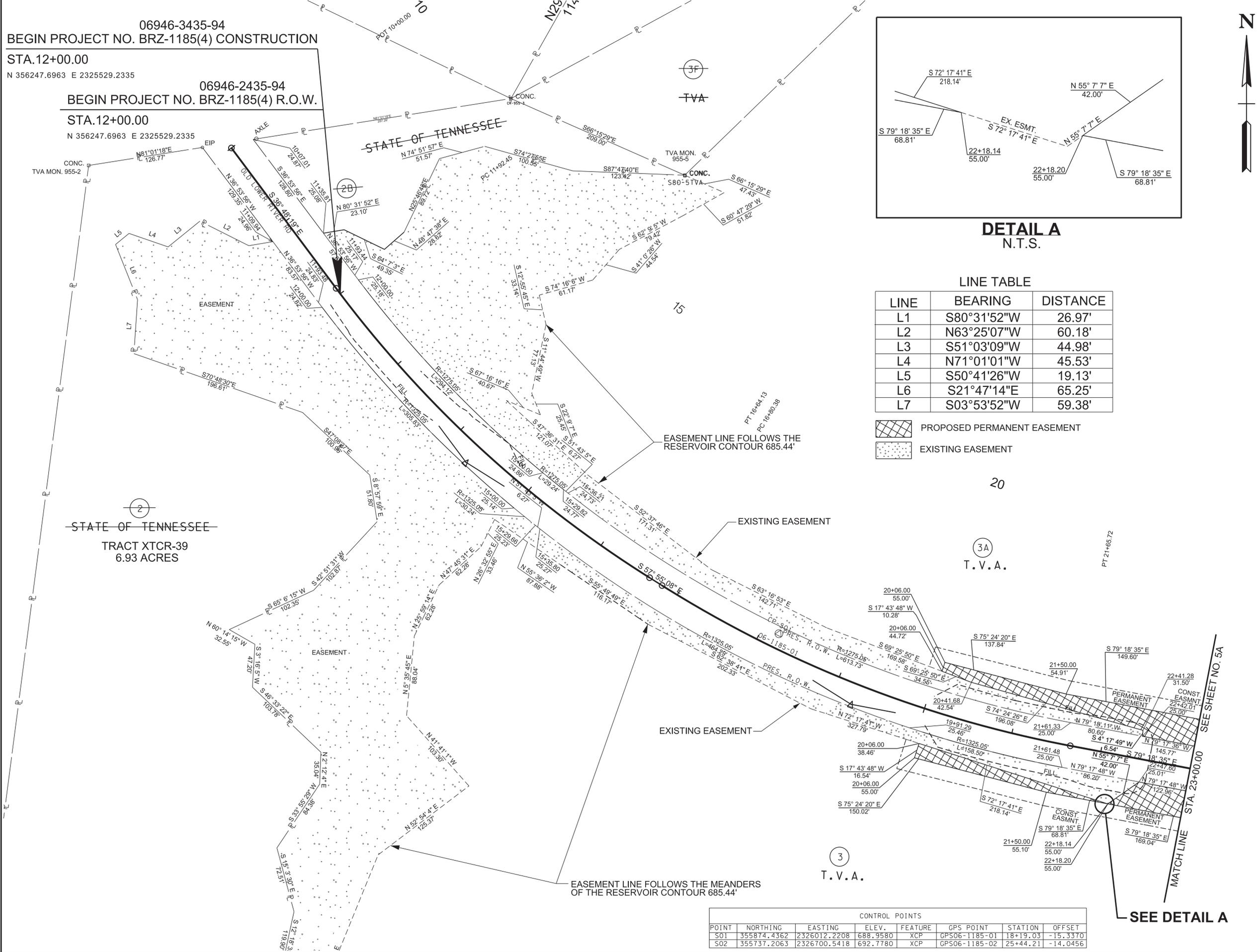
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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

PRESENT
 LAYOUT

STA 12+00 TO STA 23+00
 SCALE: 1"= 50'

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DETAIL A
N.T.S.

LINE TABLE

LINE	BEARING	DISTANCE
L1	S80°31'52"W	26.97'
L2	N63°25'07"W	60.18'
L3	S51°03'09"W	44.98'
L4	N71°01'01"W	45.53'
L5	S50°41'26"W	19.13'
L6	S21°47'14"E	65.25'
L7	S03°53'52"W	59.38'

- PROPOSED PERMANENT EASEMENT
- EXISTING EASEMENT

CONTROL POINTS						
POINT	NORTHING	EASTING	ELEV.	FEATURE	GPS POINT	STATION OFFSET
S01	355874.4362	2326012.2208	688.9580	XCP	GPS06-1185-01	18+19.03 -15.3370
S02	355737.2063	2326700.5418	692.7780	XCP	GPS06-1185-02	25+44.21 -14.0456

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	4A
PS&E	2025	BRZ-1185(4)	4A

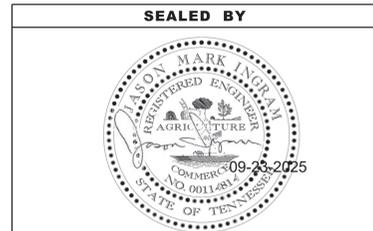
REV. 08/04/22:
TRACTS 2, 2B, 3, 3A,
UPDATED BOUNDARY SURVEY,
AND ADDED LINE AND CURVE TABLES.

REV. 11/09/22:
UPDATED SURVEY LINE TABLE,
REMOVED SURVEY CURVE TABLE,
ADDED LINE AND CURVE TEXT,
CORRECTED EASEMENT RESERVOIR
CONTOUR ELEVATION TO 685.44,
REMOVED CONSTRUCTION EASEMENT
FROM TRACTS 3 AND 3A FROM
STA 12+00 TO STA 15+00,
REVISED CONSTRUCTION EASEMENT
LINE NEAR STA 20+00 FOR
TRACTS 3 AND 3A.

REV. 05/02/23:
TRACTS 3 & 3A - REMOVED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT,
LINED THRU TRACTS 2 & 2B.

REV. 01/11/24:
UPDATED PROPOSED R.O.W. & EASEMENT
LABELS FOR TRACTS 3 AND 3A. ADDED
DETAIL A.

REV. 01/24/24:
UPDATED PROPOSED R.O.W. & EASEMENT
LABELS FOR TRACT 3A.



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TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**RIGHT OF WAY
DETAILS**

STA 12+00 TO STA 23+00
SCALE: 1"= 50'

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06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

STA.12+00.00
 N 356247.6963 E 2325529.2335

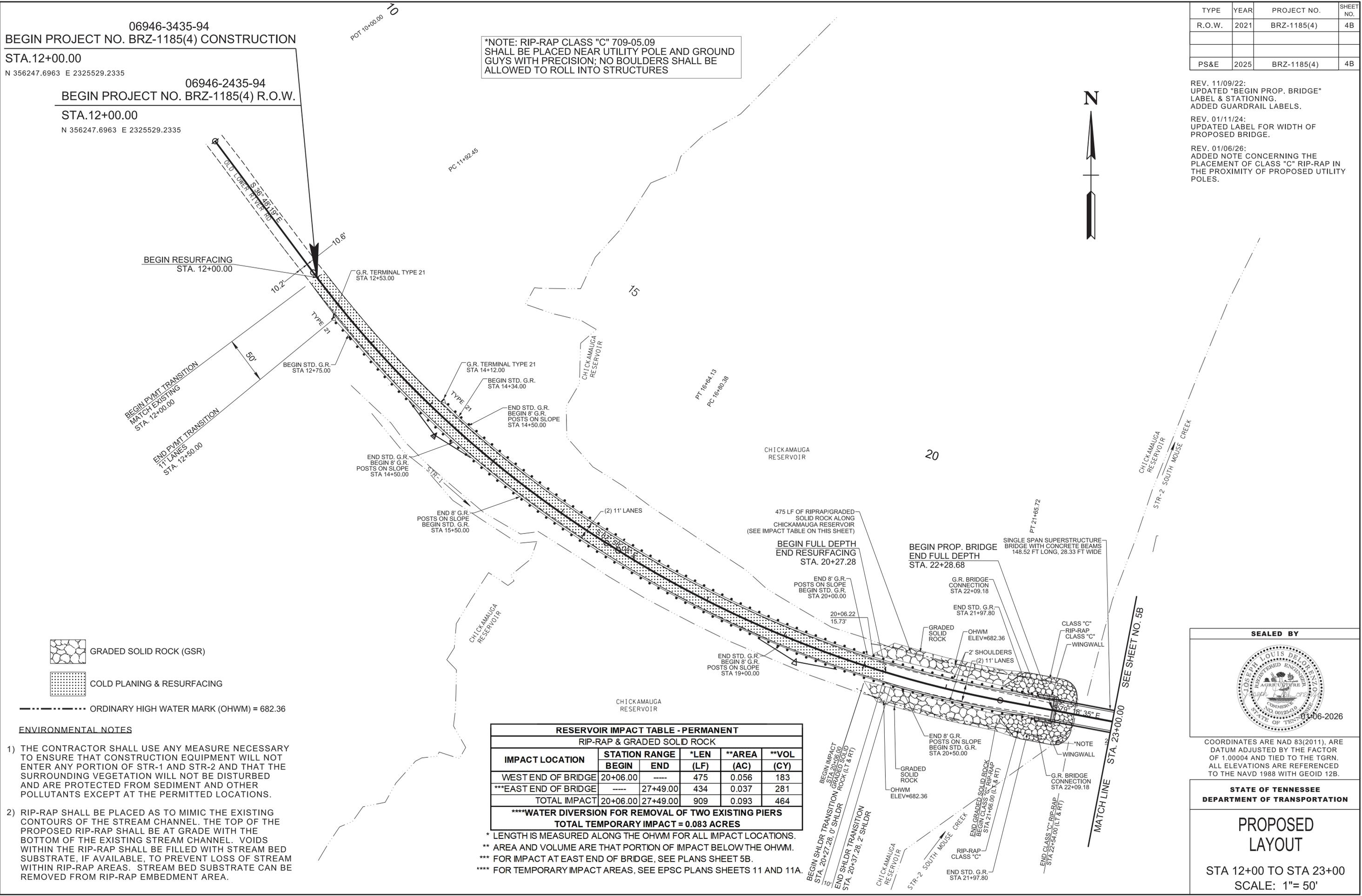
*NOTE: RIP-RAP CLASS "C" 709-05.09
 SHALL BE PLACED NEAR UTILITY POLE AND GROUND
 GUYS WITH PRECISION; NO BOULDERS SHALL BE
 ALLOWED TO ROLL INTO STRUCTURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	4B
PS&E	2025	BRZ-1185(4)	4B

REV. 11/09/22:
 UPDATED "BEGIN PROP. BRIDGE"
 LABEL & STATIONING.
 ADDED GUARDRAIL LABELS.

REV. 01/11/24:
 UPDATED LABEL FOR WIDTH OF
 PROPOSED BRIDGE.

REV. 01/06/26:
 ADDED NOTE CONCERNING THE
 PLACEMENT OF CLASS "C" RIP-RAP IN
 THE PROXIMITY OF PROPOSED UTILITY
 POLES.



- GRADED SOLID ROCK (GSR)
- COLD PLANING & RESURFACING

----- ORDINARY HIGH WATER MARK (OHWM) = 682.36

ENVIRONMENTAL NOTES

- 1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1 AND STR-2 AND THAT THE SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- 2) RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA.

RESERVOIR IMPACT TABLE - PERMANENT					
RIP-RAP & GRADED SOLID ROCK					
IMPACT LOCATION	STATION RANGE		*LEN (LF)	**AREA (AC)	**VOL (CY)
	BEGIN	END			
WEST END OF BRIDGE	20+06.00	----	475	0.056	183
***EAST END OF BRIDGE	----	27+49.00	434	0.037	281
TOTAL IMPACT	20+06.00	27+49.00	909	0.093	464
***WATER DIVERSION FOR REMOVAL OF TWO EXISTING PIERS TOTAL TEMPORARY IMPACT = 0.083 ACRES					

- * LENGTH IS MEASURED ALONG THE OHWM FOR ALL IMPACT LOCATIONS.
- ** AREA AND VOLUME ARE THAT PORTION OF IMPACT BELOW THE OHWM.
- *** FOR IMPACT AT EAST END OF BRIDGE, SEE PLANS SHEET 5B.
- **** FOR TEMPORARY IMPACT AREAS, SEE EPSC PLANS SHEETS 11 AND 11A.

SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

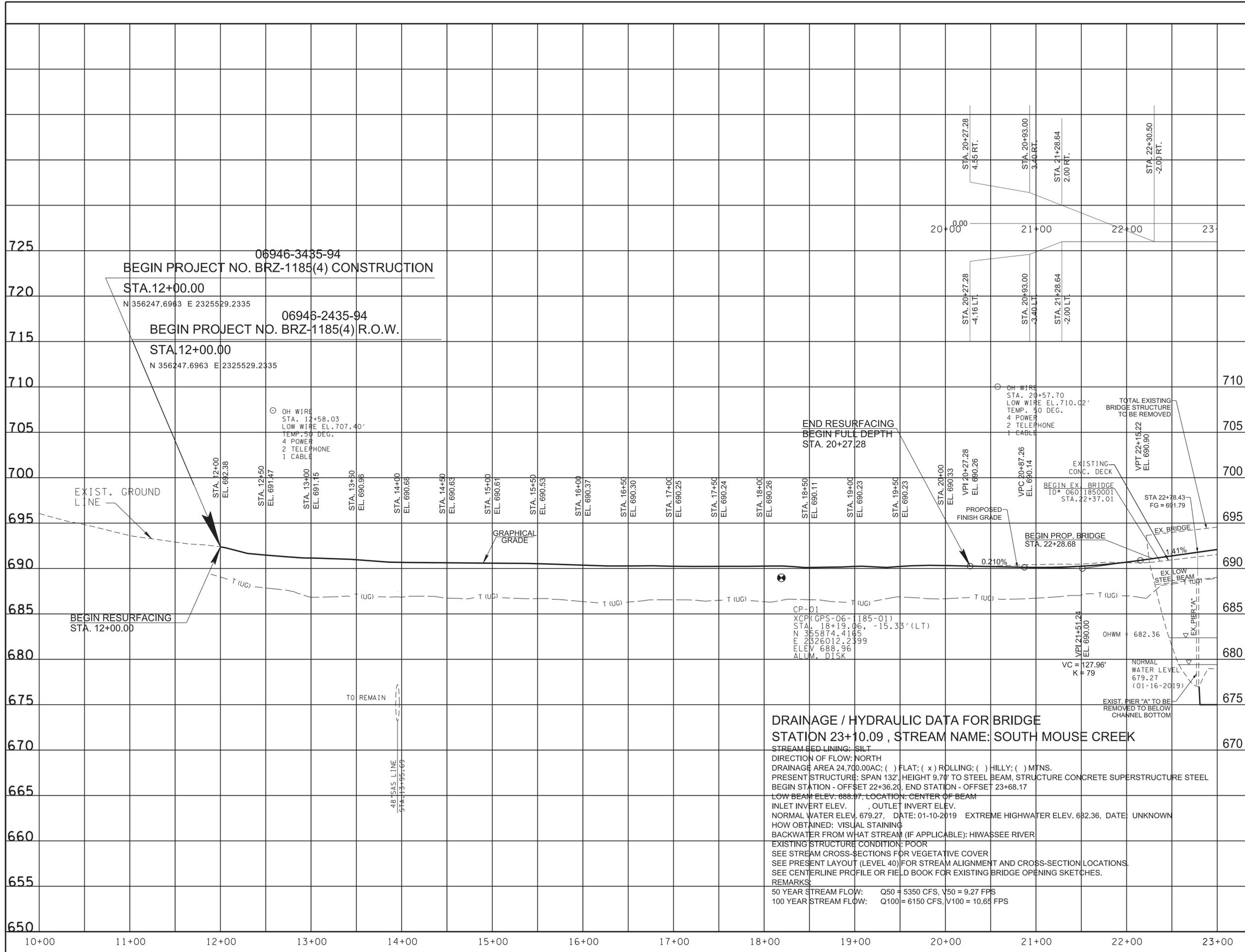
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT
 STA 12+00 TO STA 23+00
 SCALE: 1"= 50'

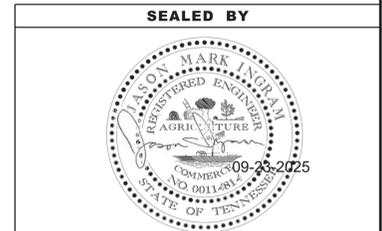
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	4C
PS&E	2025	BRZ-1185(4)	4C

REV. 11/09/22:
 UPDATED "BEGIN PROP. BRIDGE"
 LABEL & STATIONING.
 REVISED FINISH GRADES.



DRAINAGE / HYDRAULIC DATA FOR BRIDGE
STATION 23+10.09 , STREAM NAME: SOUTH MOUSE CREEK
 STREAM BED LINING: SILT
 DIRECTION OF FLOW: NORTH
 DRAINAGE AREA 24,700.00AC: () FLAT; (x) ROLLING; () HILLY; () MTNS.
 PRESENT STRUCTURE: SPAN 132', HEIGHT 9.70' TO STEEL BEAM, STRUCTURE CONCRETE SUPERSTRUCTURE STEEL
 BEGIN STATION - OFFSET 22+36.20, END STATION - OFFSET 23+68.17
 LOW BEAM ELEV. 688.97, LOCATION: CENTER OF BEAM
 INLET INVERT ELEV. , OUTLET INVERT ELEV.
 NORMAL WATER ELEV. 679.27, DATE: 01-10-2019 EXTREME HIGHWATER ELEV. 682.36, DATE: UNKNOWN
 HOW OBTAINED: VISUAL STAINING
 BACKWATER FROM WHAT STREAM (IF APPLICABLE): HIWASSEE RIVER
 EXISTING STRUCTURE CONDITION: POOR
 SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER
 SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.
 SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.
 REMARKS:
 50 YEAR STREAM FLOW: Q50 = 5350 CFS, V50 = 9.27 FPS
 100 YEAR STREAM FLOW: Q100 = 6150 CFS, V100 = 10.68 FPS



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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
 STA 12+00 TO STA 23+00
 SCALE: 1" = 50' HORIZ.
 1" = 5' VERT.

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22-SEP-2025 09:35 \\tdot2nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\005.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	5
PS&E	2025	BRZ-1185(4)	5

REV. 02/03/22:
TRACT 4 - UPDATED PROPERTY OWNER

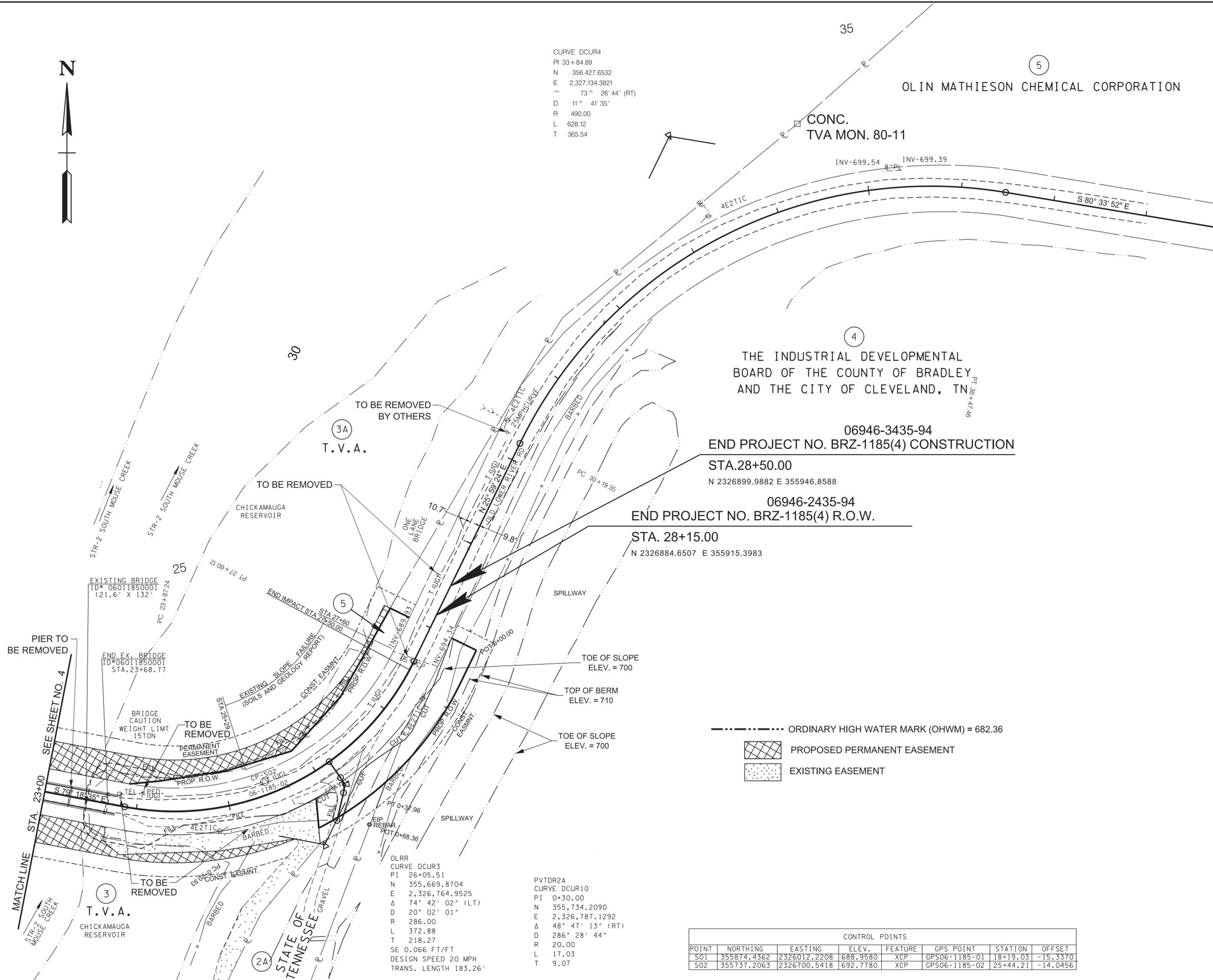
REV. 08/04/22:
TRACTS 2A, 3, 3A, 4, 5.
UPDATED BOUNDARY SURVEY.
ADDED AND LABELED CONTOURS FOR TOE OF SLOPE, TOP OF BERM, AND SPILLWAY.

REV. 11/09/22:
UPDATED "END PROP. BRIDGE"
LABEL & STATIONING.
REVISED CONSTRUCTION EASEMENT
LINE FOR TRACT 3 NEAR STA 25+40.

REV. 01/20/23:
DISPLAYED EXISTING DRAINAGE
FEATURES ON TRACT 4.
UPDATED SLOPES
STA 28+15 - STA 28+50 LEFT
STA 24+50 - STA 28+00 RIGHT

REV. 01/26/23:
UPDATED PROPERTY OWNER FOR
TRACT 5.

REV. 05/02/23:
TRACTS 3 & 3A - UPDATED PROPOSED
R.O.W. BOUNDARY AND ADDED
PERMANENT EASEMENT.
UPDATED SLOPE LINES.



CURVE DCUR4
PI 33+84.89
N 356,427.6532
E 2,327,134.3821
~ 73° 26' 44" (RT)
D 11' 41' 35"
R 490.00
L 628.12
T 365.54

06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION
STA.28+50.00
N 2326899.9882 E 355946.8588

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.
STA. 28+15.00
N 2326884.6507 E 355915.3983

--- ORDINARY HIGH WATER MARK (OHWM) = 682.36

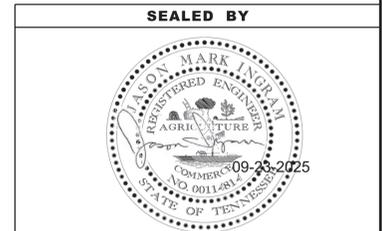
[Cross-hatched box] PROPOSED PERMANENT EASEMENT

[Dotted box] EXISTING EASEMENT

OLRR
CURVE DCUR3
PI 26+05.51
N 355,669.8704
E 2,326,764.9525
Δ 74° 42' 02" (LT)
D 20' 02' 01"
R 286.00
L 372.88
T 218.27
SE 0.066 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 183.26'

PVTR2A
CURVE DCUR10
PI 0+30.00
N 355,734.2090
E 2,326,787.1292
Δ 48° 47' 13" (RT)
D 286° 28' 44"
R 20.00
L 17.03
T 9.07

CONTROL POINTS							
POINT	NORTHING	EASTING	ELEV.	FEATURE	GPS POINT	STATION	OFFSET
S01	355874.4362	2326012.2208	688.9580	XCP	GPS06-1185-01	18+19.03	-15.3370
S02	355737.2063	2326700.5418	692.7780	XCP	GPS06-1185-02	25+44.21	-14.0456



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA 23+00 TO STA 28+50
SCALE: 1"= 50'

22-SEP-2025 09:35 \\dot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\005A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	5A
PS&E	2025	BRZ-1185(4)	5A

REV. 02/3/22:
TRACT 4 - UPDATED PROPERTY OWNER

REV. 08/04/22:
TRACTS 2A, 3, 3A, 4, 5,
UPDATED BOUNDARY SURVEY,
AND ADDED LINE AND CURVE TABLES.

REV. 11/09/22:
REMOVED SURVEY LINE & CURVE TABLES,
ADDED LINE & CURVE TEXT.
REVISED CONSTRUCTION EASEMENT
LINE FOR TRACT 3 NEAR STA 25+40.

REV. 01/20/23:
UPDATED SLOPES
STA 28+15 - STA 28+50 LEFT
STA 24+50 - STA 28+00 RIGHT

REV. 01/26/23:
UPDATED PROPERTY OWNER FOR
TRACT 5.

REV. 05/02/23:
TRACTS 3 & 3A - UPDATED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.
UPDATED SLOPE LINES.

REV. 01/11/24:
UPDATED PROPOSED R.O.W. & EASEMENT
LABELS FOR TRACTS 3 AND 3A. ADDED
DETAIL B.



OLIN MATHIESON CHEMICAL CORPORATION

CONC.
TVA MON. 80-11

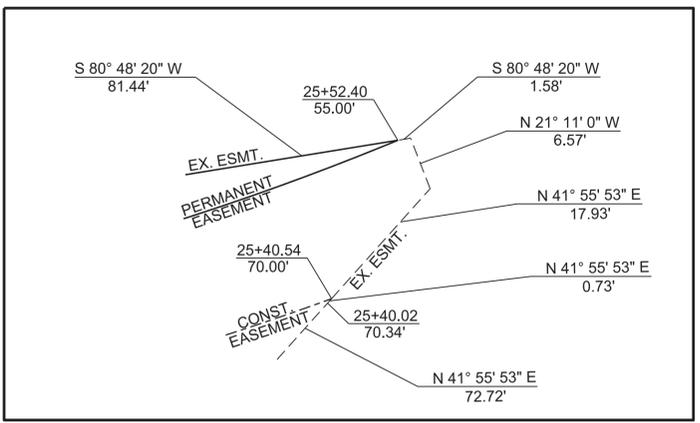
THE INDUSTRIAL DEVELOPMENTAL
BOARD OF THE COUNTY OF BRADLEY
AND THE CITY OF CLEVELAND, TN

06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.28+50.00
N 2326899.9882 E 355946.8588

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.

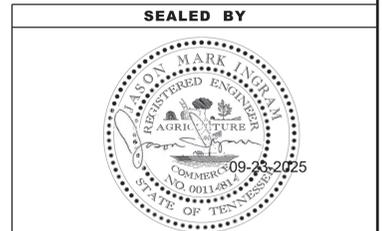
STA. 28+15.00
N 2326884.6507 E 355915.3983



DETAIL B
N.T.S.

- PROPOSED PERMANENT EASEMENT
- EXISTING EASEMENT

POINT	NORTHING	EASTING	ELEV.	FEATURE	GPS POINT	STATION	OFFSET
S01	355874.4362	2326012.2208	688.9580	XCP	GPS06-1185-01	18+19.03	-15.3370
S02	355737.2063	2326700.5418	692.7780	XCP	GPS06-1185-02	25+44.21	-14.0456

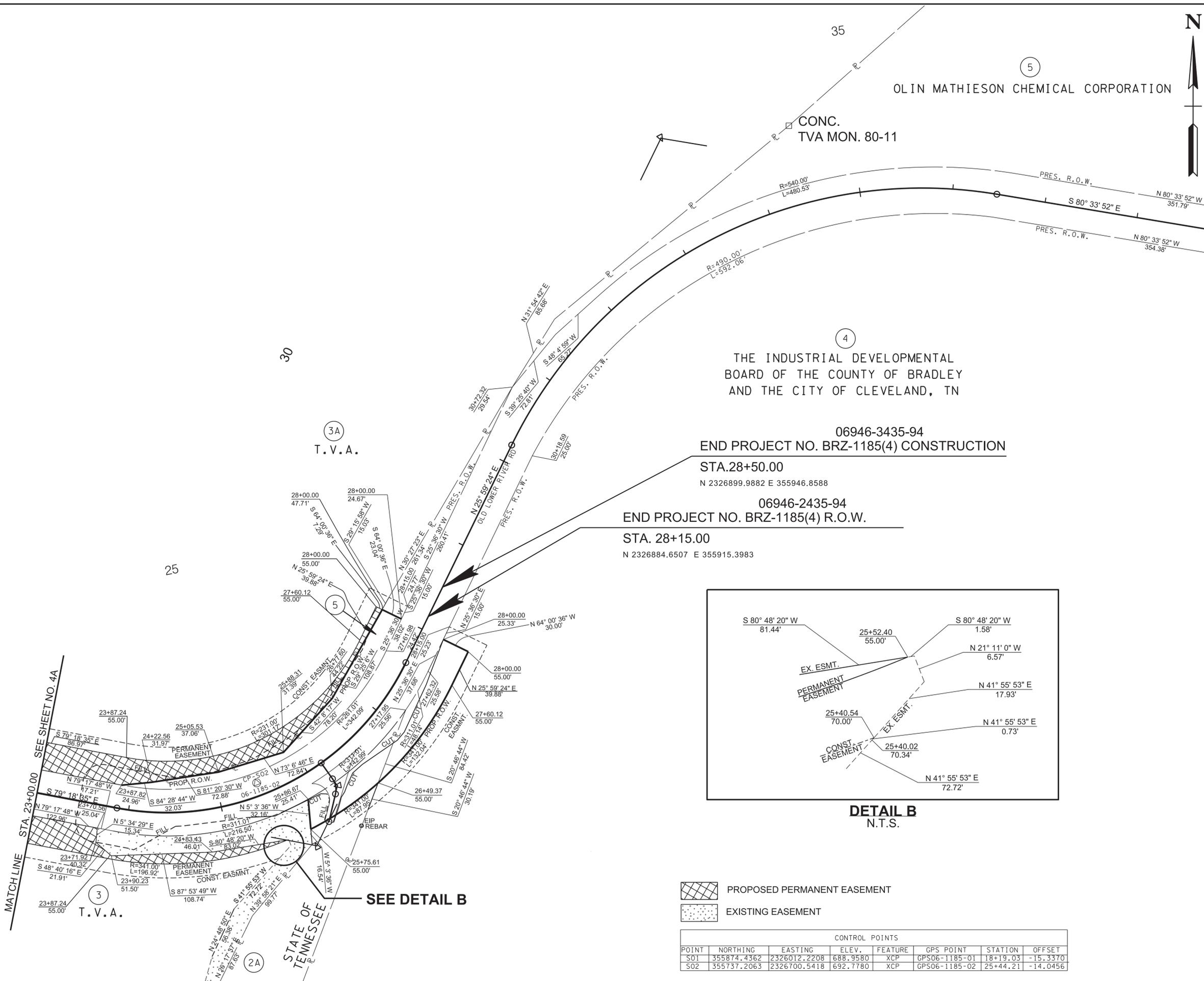


COORDINATES ARE NAD 83(2011), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00004 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**RIGHT OF WAY
DETAILS**

STA 23+00 TO STA 28+50
SCALE: 1"= 50'



SEE DETAIL B

MATCHLINE STA. 23+00.00 SEE SHEET NO. 4A

STATE OF TENNESSEE

*NOTE: RIP-RAP CLASS "C" 709-05.09 SHALL BE PLACED NEAR UTILITY POLE AND GROUND GUYS WITH PRECISION; NO BOULDERS SHALL BE ALLOWED TO ROLL INTO STRUCTURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	5B
PS&E	2025	BRZ-1185(4)	5B

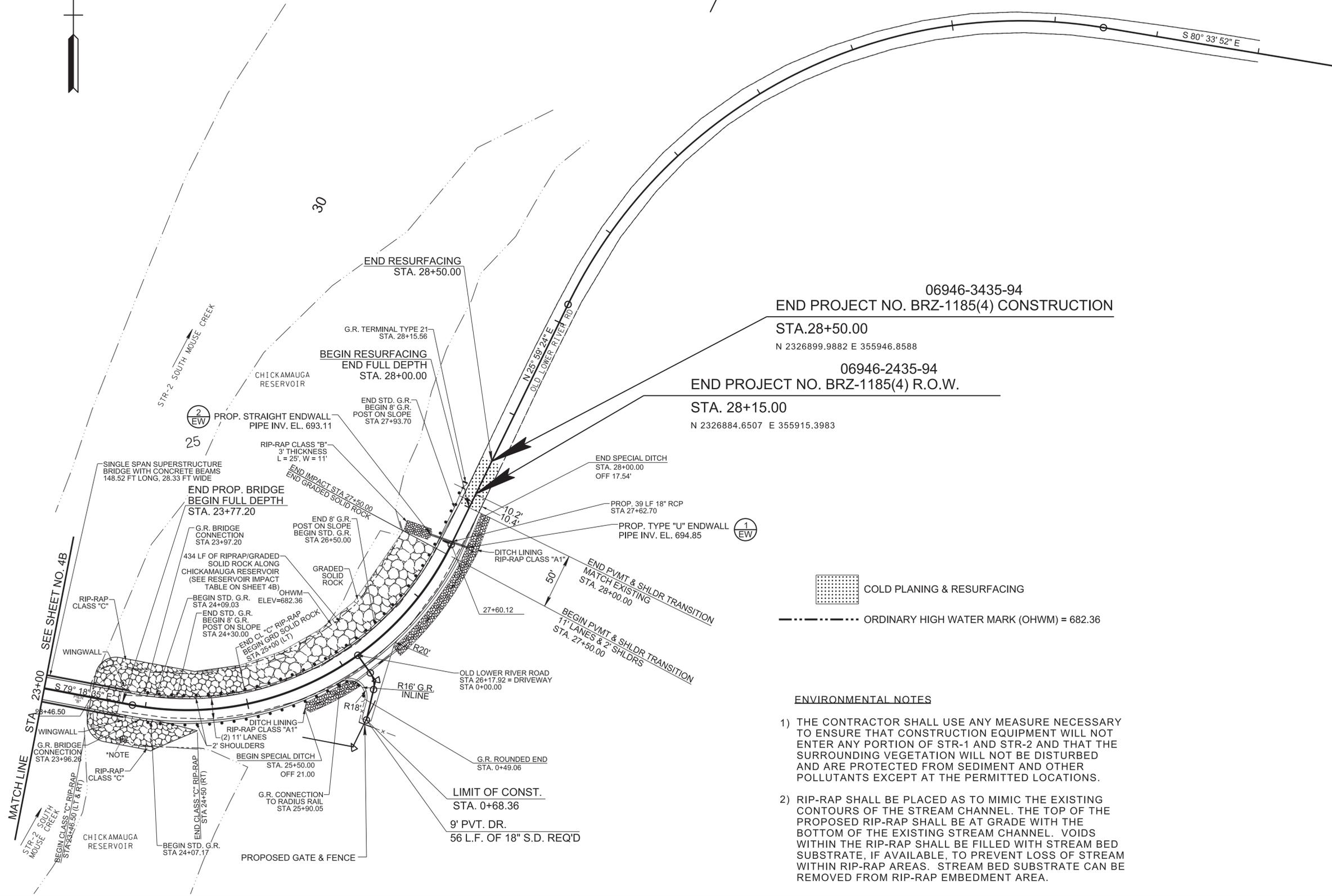
REV. 11/09/22:
UPDATED "END PROP. BRIDGE" LABEL & STATIONING.
ADDED GUARDRAIL LABELS.

REV. 01/20/23:
UPDATED SPECIAL DITCH.

REV. 05/02/23:
ADDED DITCH LINING RIP-RAP CLASS A1.
ADDED 20' RADIUS ON PRIVATE DRIVE.

REV. 01/11/24:
UPDATED LABEL FOR WIDTH OF PROPOSED BRIDGE.

REV. 01/06/26:
ADDED NOTE CONCERNING THE PLACEMENT OF CLASS "C" RIP-RAP IN THE PROXIMITY OF PROPOSED UTILITY POLES.



06946-3435-94
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06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.
STA. 28+15.00
N 2326884.6507 E 355915.3983

COLD PLANING & RESURFACING

ORDINARY HIGH WATER MARK (OHWM) = 682.36

ENVIRONMENTAL NOTES

- 1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1 AND STR-2 AND THAT THE SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- 2) RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA.

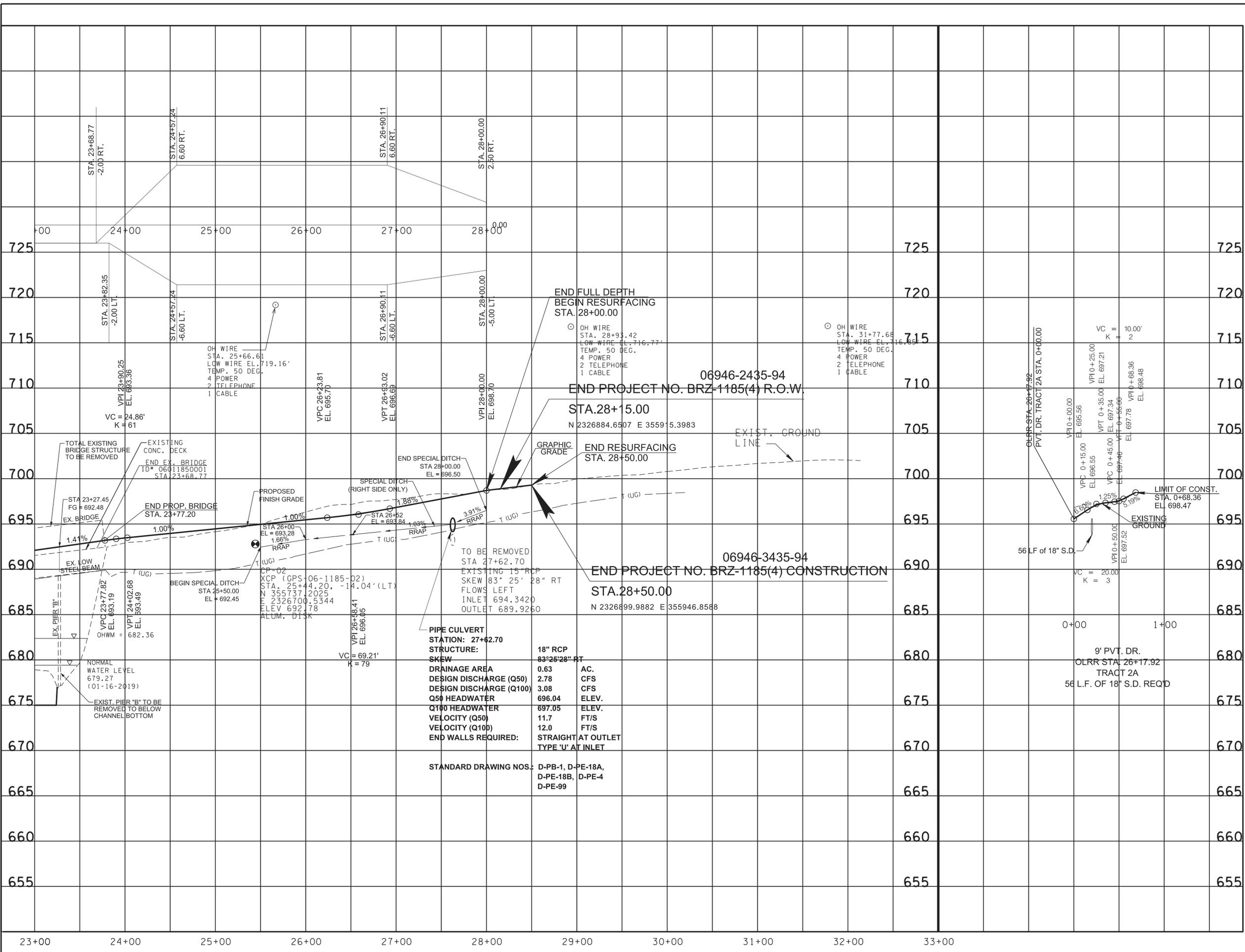
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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT
STA 23+00 TO STA 28+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	5C
PS&E	2025	BRZ-1185(4)	5C

REV. 11/09/22:
 UPDATED "END PROP. BRIDGE"
 LABEL & STATIONING.
 REVISED FINISH GRADES.
 ADDED SPECIAL DITCH LINE
 WITH LABELS & GRADES.
 ADDED LABELS WITH STATIONS:
 "END FULL DEPTH. BEGIN RESURFACING"
 AND "END RESURFACING".

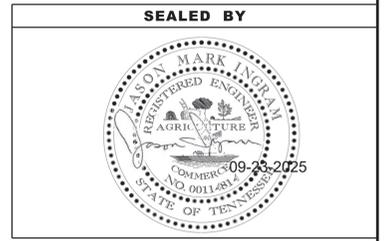
REV. 01/20/23:
 UPDATED SPECIAL DITCH

REV. 05/02/23:
 UPDATED SPECIAL DITCH LABEL TO
 INDICATE RIP-RAP.

TO BE REMOVED
 STA 27+62.70
 EXISTING 15" RCP
 SKEW 83° 25' 28" RT
 FLOWS LEFT
 INLET 694.3420
 OUTLET 689.9260

PIPE CULVERT
 STATION: 27+62.70
 STRUCTURE: 18" RCP
 SKEW 83° 25' 28" RT
 DRAINAGE AREA 0.63 AC.
 DESIGN DISCHARGE (Q50) 2.78 CFS
 DESIGN DISCHARGE (Q100) 3.08 CFS
 Q50 HEADWATER 696.04 ELEV.
 Q100 HEADWATER 697.05 ELEV.
 VELOCITY (Q50) 11.7 FT/S
 VELOCITY (Q100) 12.0 FT/S
 END WALLS REQUIRED: STRAIGHT AT OUTLET
 TYPE 'U' AT INLET

STANDARD DRAWING NOS. D-PB-1, D-PE-18A,
 D-PE-18B, D-PE-4
 D-PE-99



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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 PROFILES**

STA 23+00 TO STA 28+50

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

06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

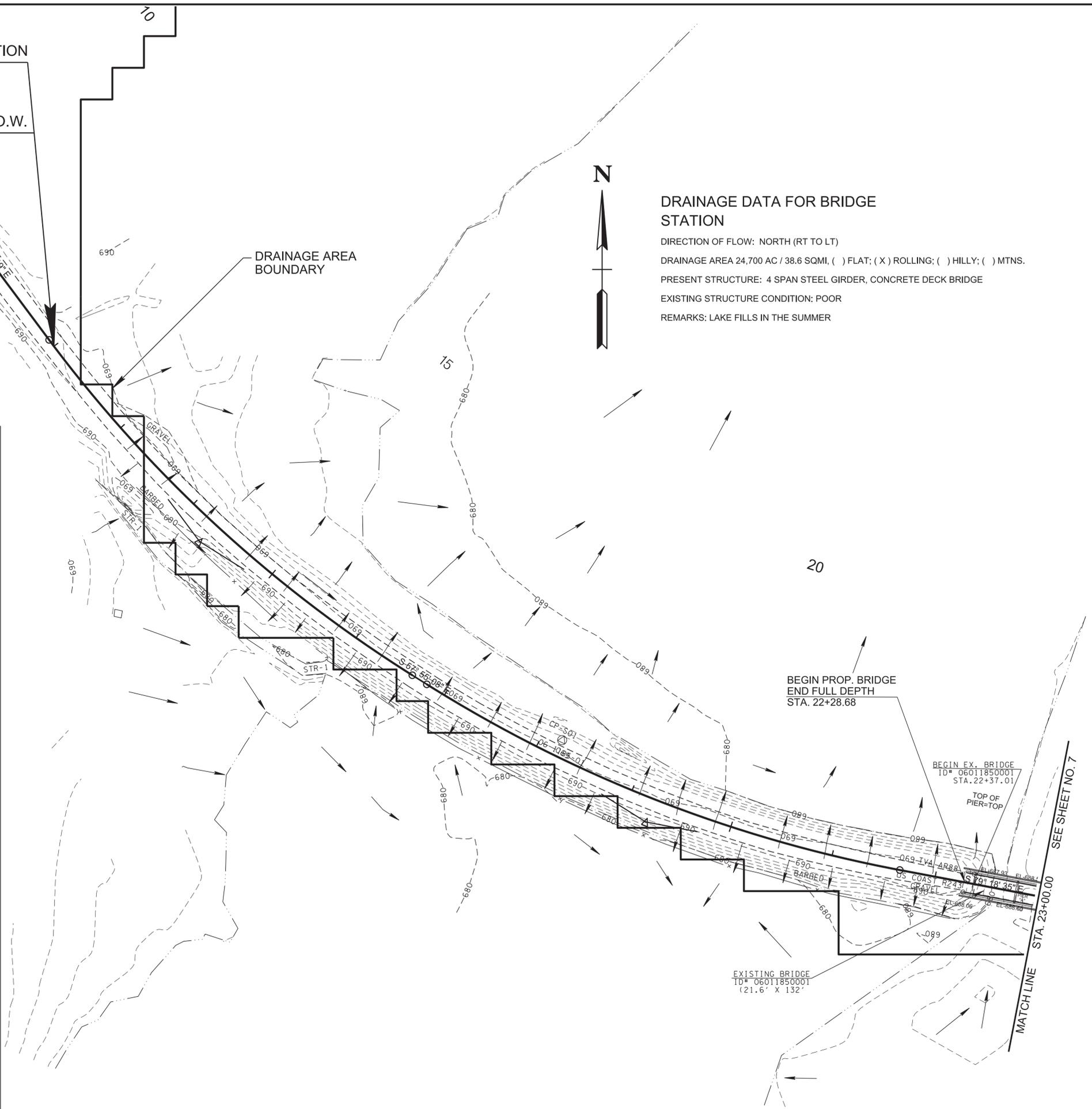
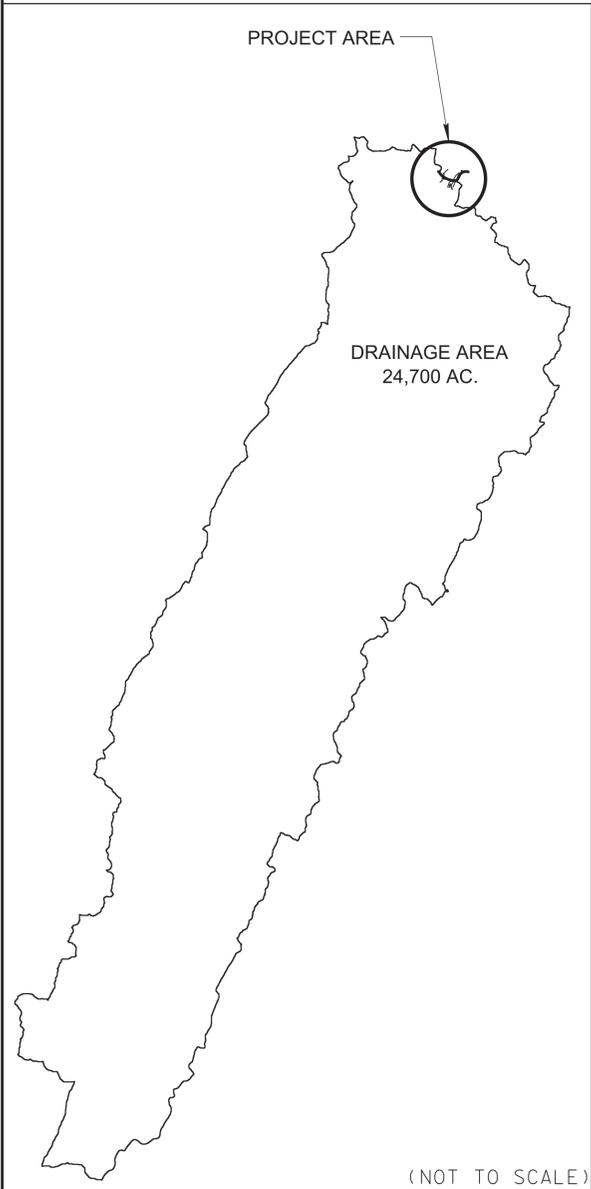
STA.12+00.00
 N 356247.6963 E 2325529.2335

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	6
PS&E	2025	BRZ-1185(4)	6

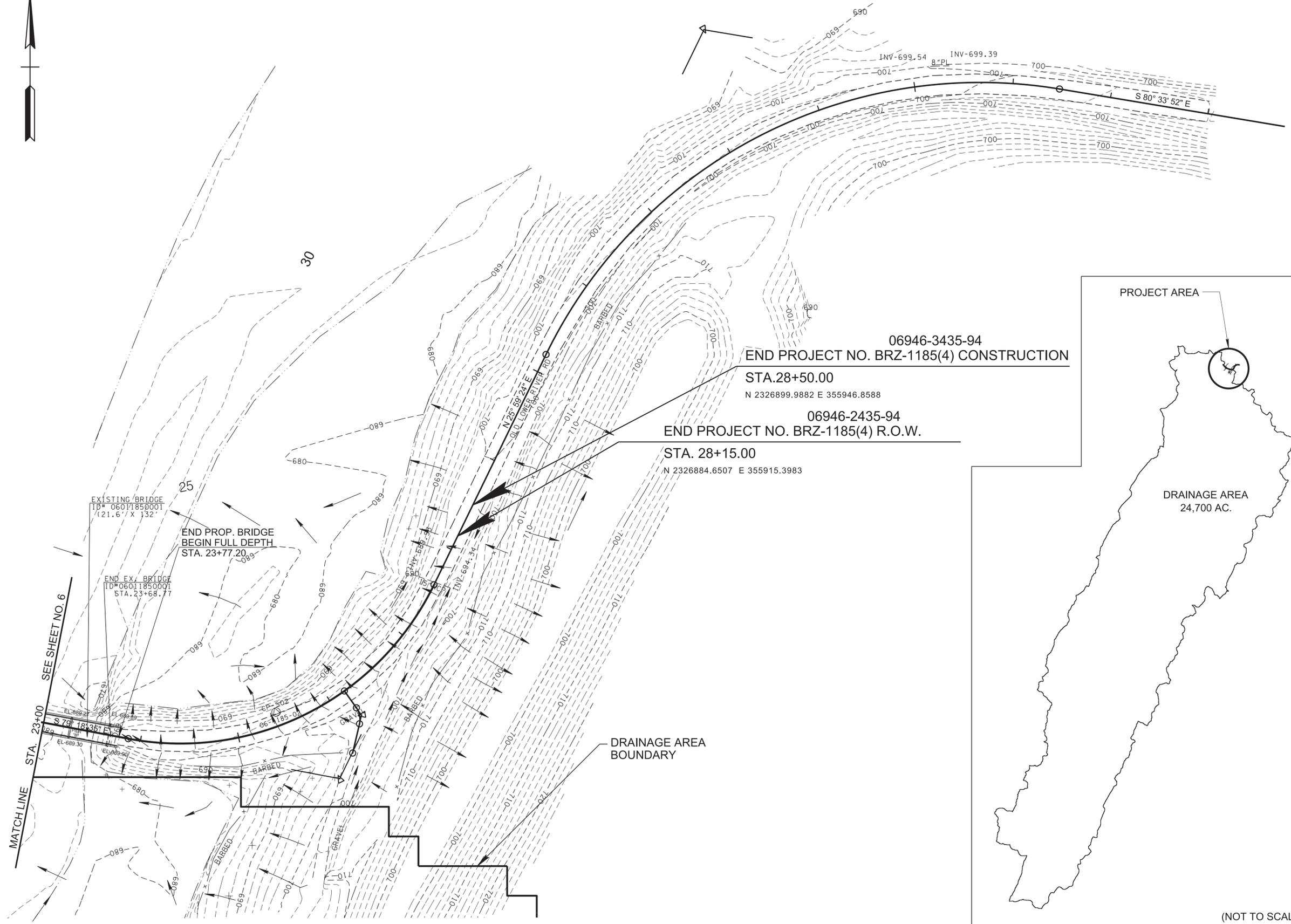
REV. 08/04/22:
 UPDATED TOPOGRAPHICAL SURVEY
 REV. 11/09/22:
 UPDATED "BEGIN PROP. BRIDGE"
 LABEL & STATIONING.
 REMOVED MISCELLANEOUS SURVEY
 POINT TEXT.

DRAINAGE DATA FOR BRIDGE STATION

DIRECTION OF FLOW: NORTH (RT TO LT)
 DRAINAGE AREA 24,700 AC / 38.6 SQMI, () FLAT; (X) ROLLING; () HILLY; () MTNS.
 PRESENT STRUCTURE: 4 SPAN STEEL GIRDER, CONCRETE DECK BRIDGE
 EXISTING STRUCTURE CONDITION: POOR
 REMARKS: LAKE FILLS IN THE SUMMER



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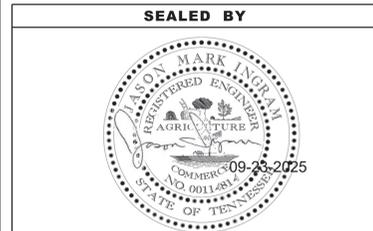
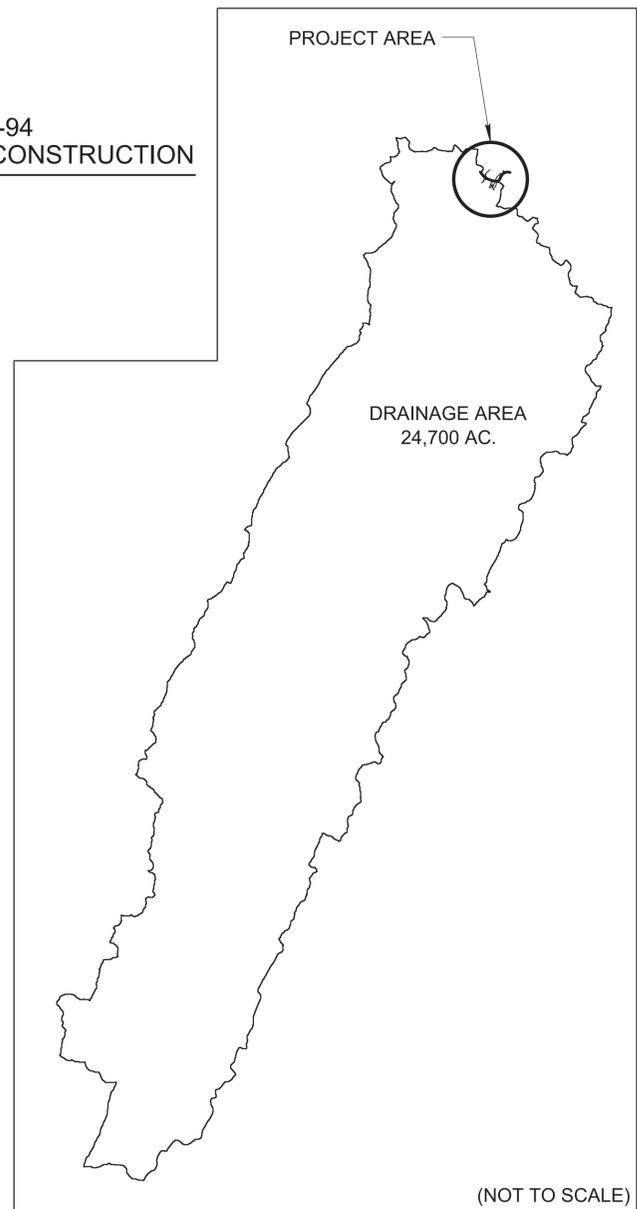
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	7
PS&E	2025	BRZ-1185(4)	7

REV. 08/04/22:
 UPDATED TOPOGRAPHICAL SURVEY.

 REV. 11/09/22:
 UPDATED "END PROP. BRIDGE"
 LABEL & STATIONING.
 REMOVE MISCELLANEOUS SURVEY
 POINT TEXT.

06946-3435-94
 END PROJECT NO. BRZ-1185(4) CONSTRUCTION
 STA.28+50.00
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 06946-2435-94
 END PROJECT NO. BRZ-1185(4) R.O.W.
 STA. 28+15.00
 N 2326884.6507 E 355915.3983



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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

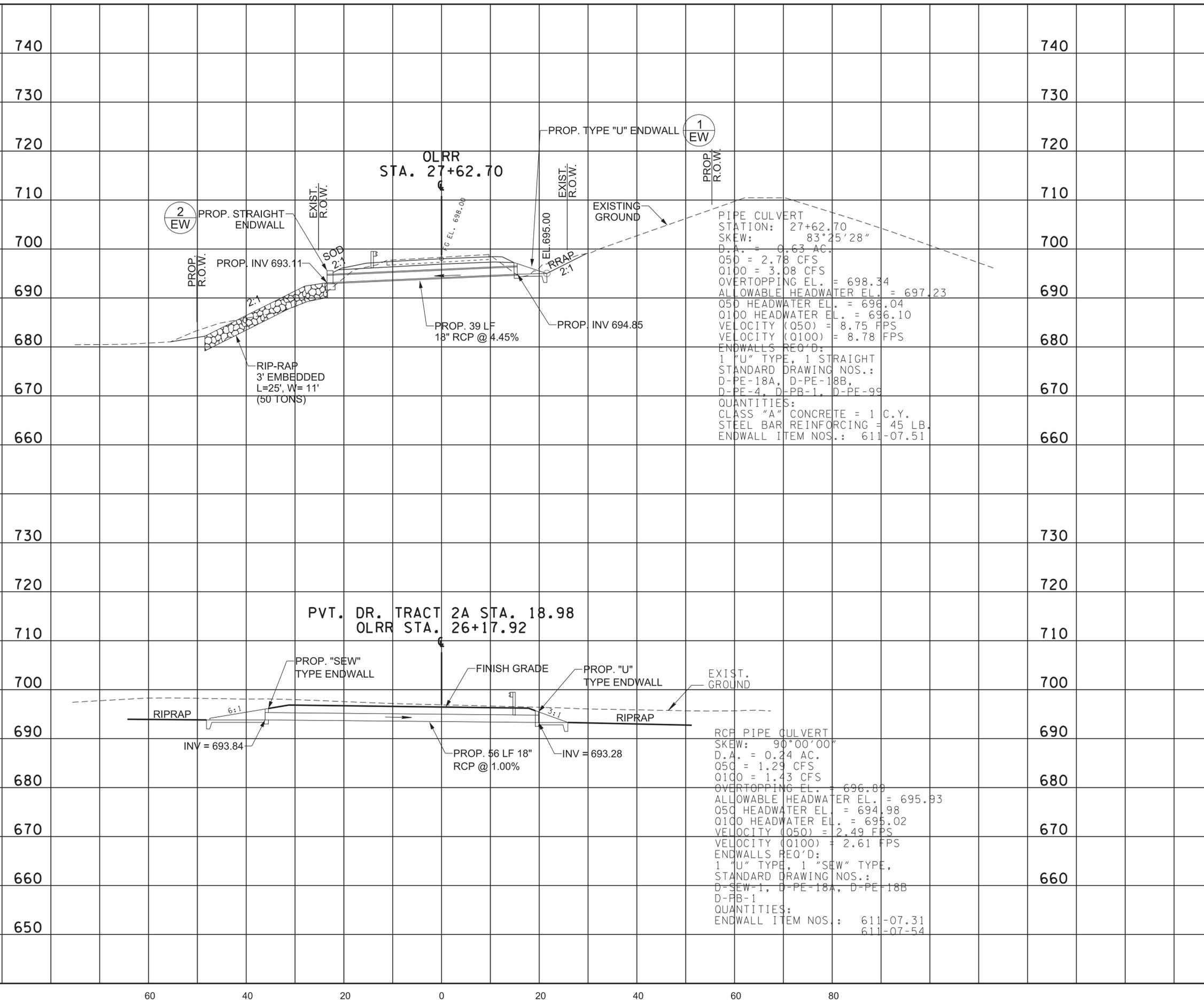
DRAINAGE MAP
 STA 23+00 TO STA 28+50
 SCALE: 1"=50'

(NOT TO SCALE)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	8
PS&E	2025	BRZ-1185(4)	8

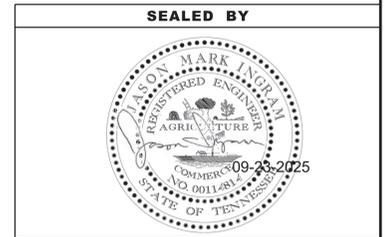
REV. 11/09/22:
 UPDATED CROSSDRAIN CULVERT SECTION.
 UPDATED SIDEDRAIN CULVERT SECTION.

REV. 05/02/23:
 UPDATED DITCH LABELS TO INDICATE
 RIP-RAP.
 UPDATED LOCATION OF PROPOSED R.O.W.
 LABEL ON LEFT SIDE OF CROSS DRAIN
 SECTION.



PIPE CULVERT
 STATION: 27+62.70
 SKEW: 83°25'28"
 D.A. = 0.63 AC.
 Q50 = 2.78 CFS
 Q100 = 3.08 CFS
 OVERTOPPING EL. = 698.34
 ALLOWABLE HEADWATER EL. = 697.23
 Q50 HEADWATER EL. = 696.04
 Q100 HEADWATER EL. = 696.10
 VELOCITY (Q50) = 8.75 FPS
 VELOCITY (Q100) = 8.78 FPS
 ENDWALLS REQ'D:
 1 "U" TYPE, 1 STRAIGHT
 STANDARD DRAWING NOS.:
 D-PE-18A, D-PE-18B,
 D-PE-4, D-PB-1, D-PE-99
 QUANTITIES:
 CLASS "A" CONCRETE = 1 C.Y.
 STEEL BAR REINFORCING = 45 LB.
 ENDWALL ITEM NOS.: 611-07.51

RCP PIPE CULVERT
 SKEW: 90°00'00"
 D.A. = 0.24 AC.
 Q50 = 1.29 CFS
 Q100 = 1.43 CFS
 OVERTOPPING EL. = 696.89
 ALLOWABLE HEADWATER EL. = 695.93
 Q50 HEADWATER EL. = 694.98
 Q100 HEADWATER EL. = 695.02
 VELOCITY (Q50) = 2.49 FPS
 VELOCITY (Q100) = 2.61 FPS
 ENDWALLS REQ'D:
 1 "U" TYPE, 1 "SEW" TYPE,
 STANDARD DRAWING NOS.:
 D-SEW-1, D-PE-18A, D-PE-18B
 D-PB-1
 QUANTITIES:
 ENDWALL ITEM NOS.: 611-07.31
 611-07.54



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**CULVERT
 SECTIONS**

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

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22-SEP-2025 09:35 \\dot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\009.sht

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

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

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

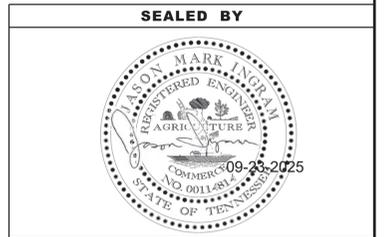
- (29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (30) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (32) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (34) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (35) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (36) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (37) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

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

STREAMS, WETLANDS & BUFFER ZONES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	9
PS&E	2025	BRZ-1185(4)	9



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	10
PS&E	2025	BRZ-1185(4)	10

TABULATED EPSC QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			06946-3435-94	
1) 2)	209-03.20	FILTER SOCK (8 INCH)	L.F.	1175
1) 2)	209-05	SEDIMENT REMOVAL	C.Y.	37
1) 2) 3)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	165
1) 2)	209-08.07	ROCK CHECK DAM PER	EACH	1
1) 2)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1
1) 2)	209-09.03	SEDIMENT FILTER BAG (15' x 15')	EACH	4
1) 2)	209-13.04	TURBIDITY CURTAIN (STA 23+58 TO STA 28+05))	L.F.	400
1)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	320
1) 2) 3)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	24
4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	152
1) 2) 3) 4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	292
1) 2)	801-03	WATER (SEEDING & SODDING)	M.G.	1

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	SEDIMENT FILTER BAG	EC-STR-2
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
** SOCK # ** SOCK # **	8 INCH FILTER SOCK	EC-STR-8
	FLOATING TURBIDITY CURTAIN	EC-STR-38
— IN — DIV —	INSTREAM DIVERSION FOR PIER REMOVAL	EC-STR-30

FOOTNOTES	
1)	TO BE USED AS DIRECTED BY THE ENGINEER.
2)	SEE SECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT.
3)	ITEMS INCLUDE ADDITIONAL QUANTITY FOR SEDIMENT FILTER BAGS
4)	QUANTITY INCLUDES 152 TONS OF CLASS A3 RIP-RAP AND 131 SY OF GEOTEXTILE FABRIC TYPE III TO BE USED FOR TEMPORARY CONSTRUCTION EXITS AND TO BE USED AS DIRECTED BY THE ENGINEER.
5)	ITEM INCLUDES 161 SY FOR SEDIMENT FILTER BAGS.

STAGE 1 NOTES
(CLEARING & GRUBBING)

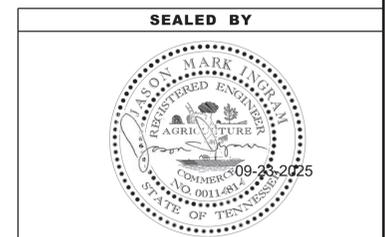
1. INSTALL EROSION CONTROL MEASURES FOR EXISTING INFRASTRUCTURE FOR CLEARING & GRUBBING OPERATIONS AND FOR PIER REMOVAL.

STAGE 2 NOTES
(INTERMEDIATE CONSTRUCTION)

1. INSTALL ADDITIONAL EROSION CONTROL MEASURES TO ACCOMMODATE NEW INFRASTRUCTURE SUCH AS CULVERTS, CATCH BASINS, AND SPECIAL DITCHES.
2. ADJUST EROSION CONTROL MEASURES, AS NECESSARY, TO ACCOMMODATE PROPOSED INFRASTRUCTURE IN ACCORDANCE WITH THE EPSC PLANS AND AT THE DIRECTION OF THE ENGINEER.
3. MONITOR, MAINTAIN, & REPLACE EPSC MEASURES AS NECESSARY.

STAGE 3 NOTES
(FINAL CONSTRUCTION)

1. MONITOR, MAINTAIN, & REPLACE EPSC MEASURES, AS NECESSARY.
2. INSPECT EPSC MEASURES AFTER COMPLETION OF CONSTRUCTION TO ENSURE VIABILITY. LEAVE IN PLACE THROUGH THE STABILIZATION PROCESS.
3. AFTER STABILIZATION, REMOVE EPSC MEASURES. ENSURE SITE IS CLEAN OF DEBRIS AND OTHER REFUSE.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) LEGEND &
TABULATION

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DRAINAGE AREA
24,700.00 AC.

06946-3435-94

BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00

N 356247.6963 E 2325529.2335

06946-2435-94

BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

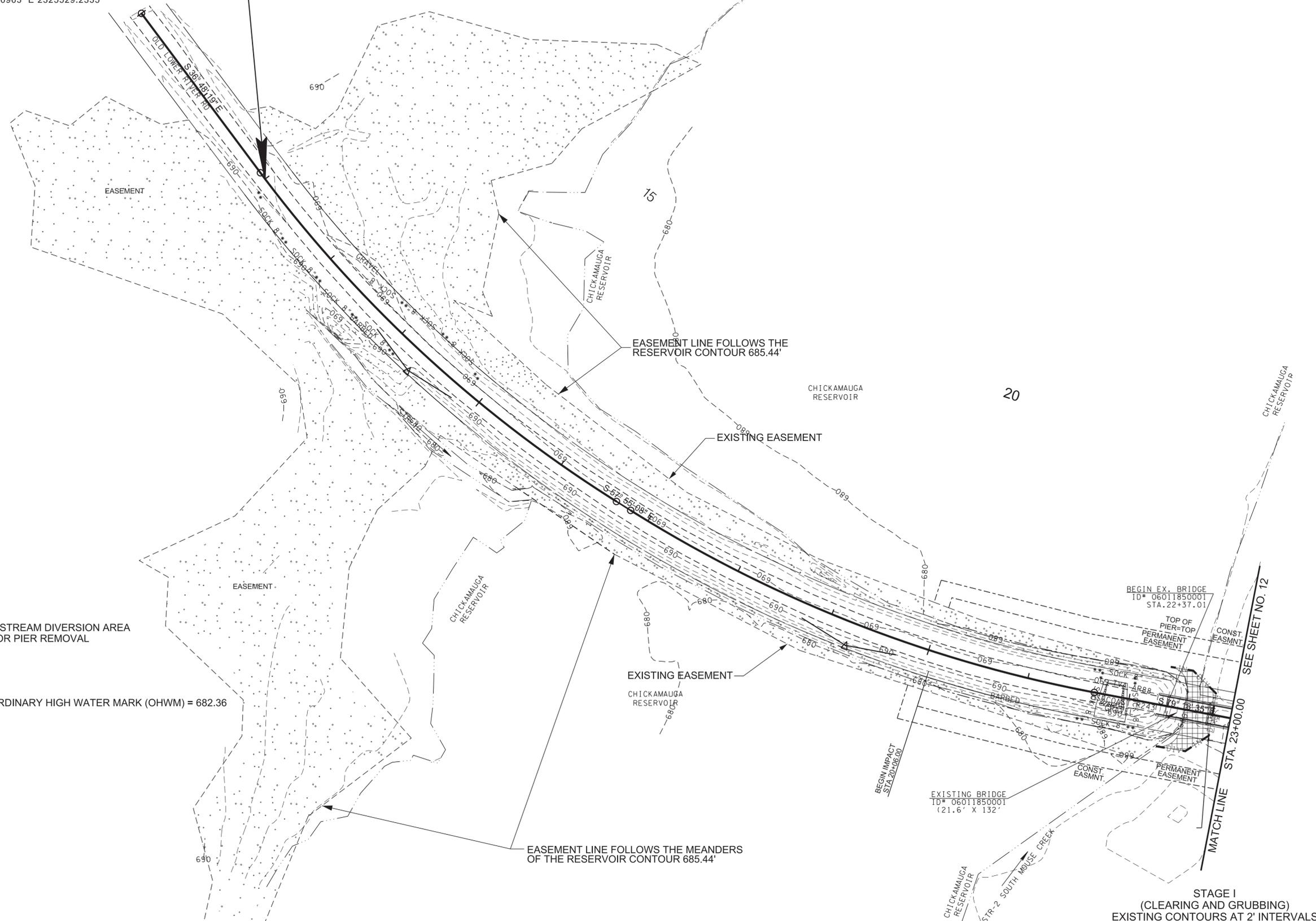
STA.12+00.00

N 356247.6963 E 2325529.2335



 INSTREAM DIVERSION AREA
FOR PIER REMOVAL

----- ORDINARY HIGH WATER MARK (OHWM) = 682.36



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	11
PS&E	2025	BRZ-1185(4)	11

REV. 08/04/22:
UPDATED TOPOGRAPHICAL SURVEY

REV. 11/09/22:
REMOVED MISCELLANEOUS
SURVEY POINT TEXT.
ADDED EASEMENT LINES & TEXT.
ADDED NATURAL FEATURES TEXT.

REV. 05/02/23:
REMOVED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.

SEALED BY



COORDINATES ARE NAD 83(2011), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00004 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION
& SEDIMENT CONTROL
(EPSC) PLANS

STA 12+00 TO STA 23+00
SCALE: 1"= 50'

STAGE I
(CLEARING AND GRUBBING)
EXISTING CONTOURS AT 2' INTERVALS



35

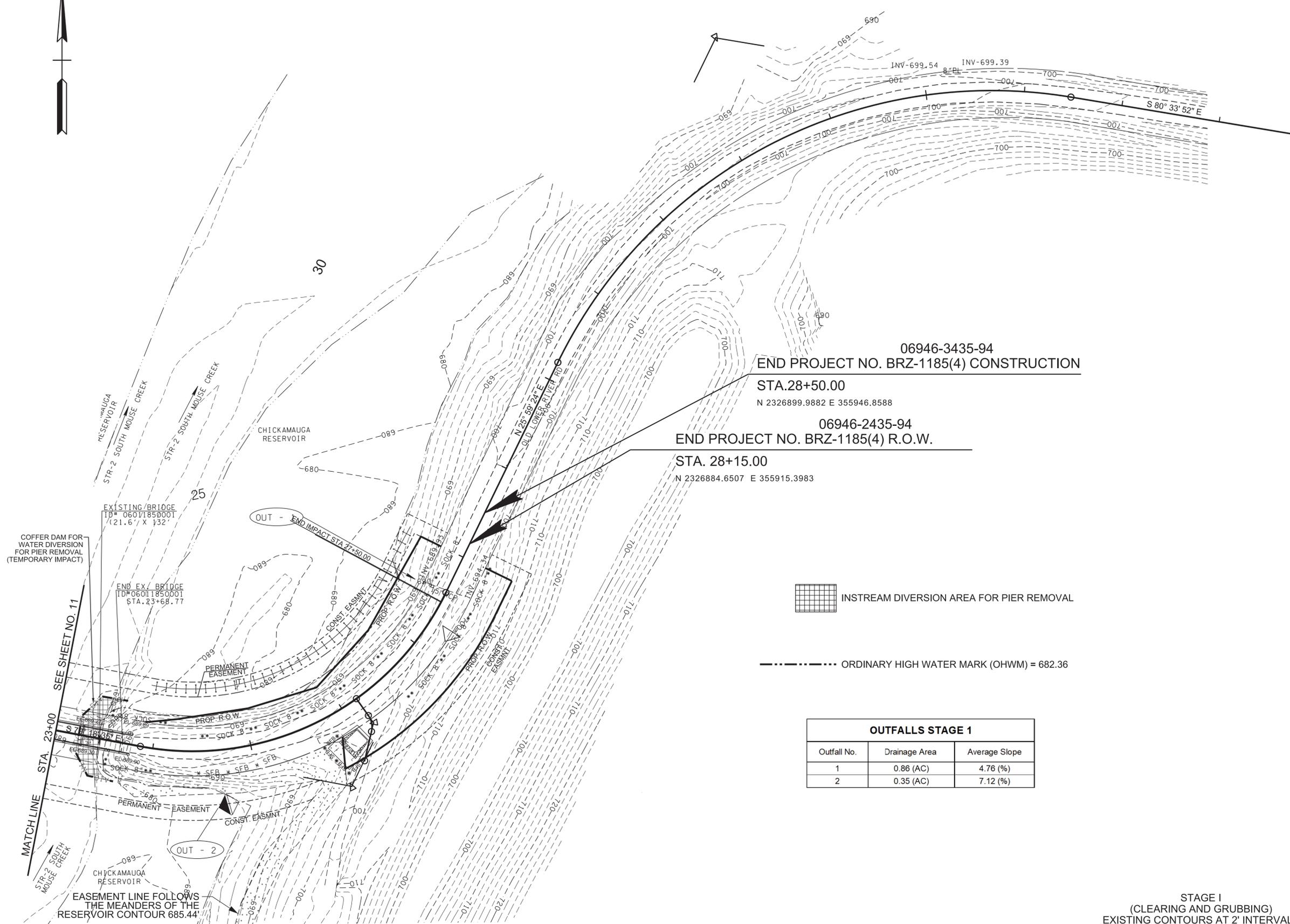
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	11A
PS&E	2025	BRZ-1185(4)	11A

REV. 08/04/22:
UPDATED TOPOGRAPHICAL SURVEY.
REVISED SHEET NUMBER FROM 12 TO 11A.

REV. 11/09/22:
REMOVED MISCELLANEOUS
SURVEY POINT TEXT.
ADDED EASEMENT LINES & TEXT.
ADDED NATURAL FEATURES TEXT.

REV. 01/20/23:
UPDATED SLOPES
STA 28+15 - STA 28+50 LEFT
STA 24+50 - STA 28+00 RIGHT

REV. 05/02/23:
UPDATED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.



06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.28+50.00
N 2326899.9882 E 355946.8588

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.

STA. 28+15.00
N 2326884.6507 E 355915.3983

 INSTREAM DIVERSION AREA FOR PIER REMOVAL

----- ORDINARY HIGH WATER MARK (OHWM) = 682.36

OUTFALLS STAGE 1

Outfall No.	Drainage Area	Average Slope
1	0.86 (AC)	4.76 (%)
2	0.35 (AC)	7.12 (%)

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION PREVENTION
& SEDIMENT CONTROL
(EPSC) PLANS**
STA 23+00 TO STA 28+50
SCALE: 1"= 50'

STAGE I
(CLEARING AND GRUBBING)
EXISTING CONTOURS AT 2' INTERVALS

06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

STA.12+00.00
 N 356247.6963 E 2325529.2335

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	12
PS&E	2025	BRZ-1185(4)	12

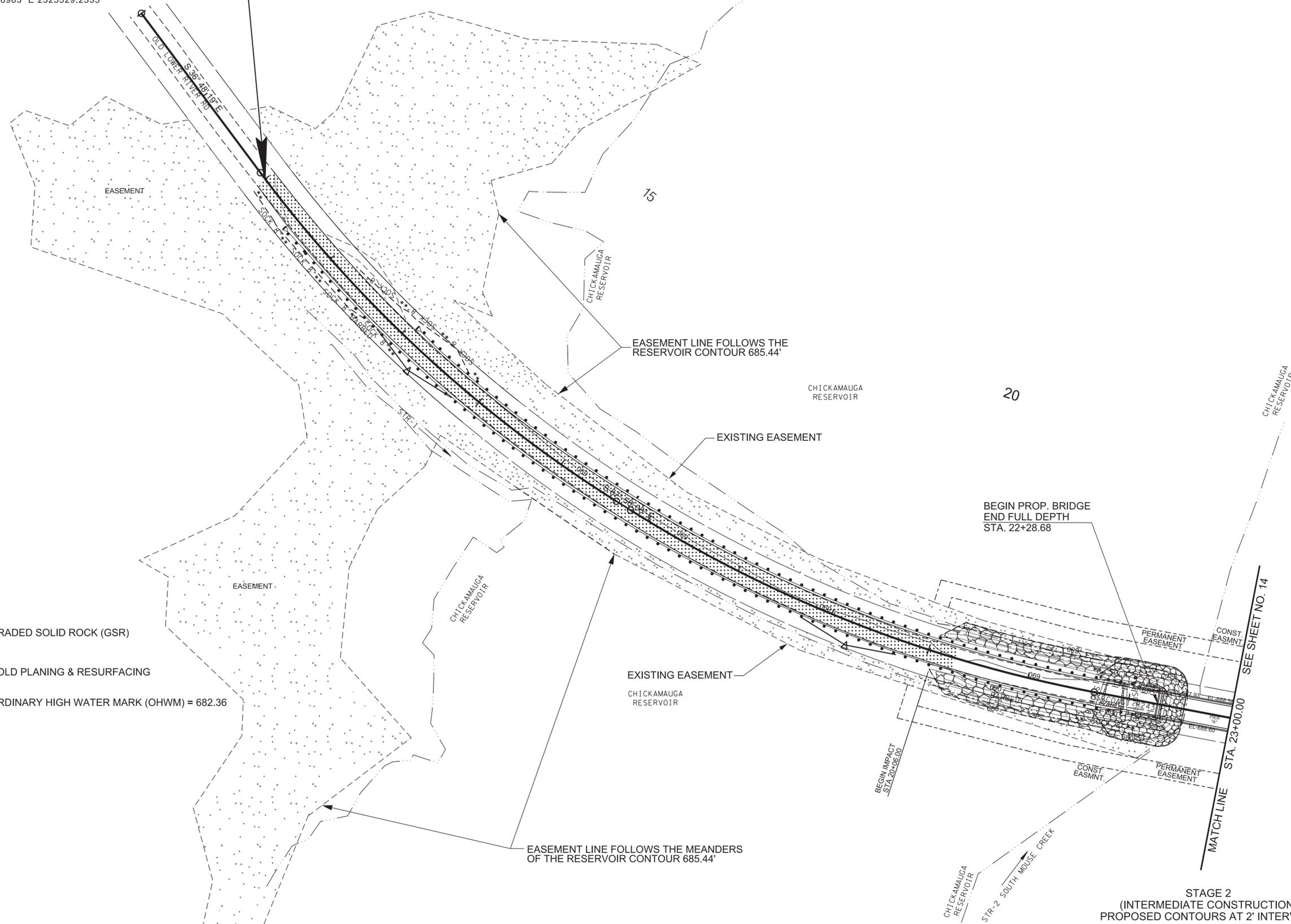
REV. 08/04/22:
 ADDED SHEET 12 FOR STAGE 2
 (INTERMEDIATE CONSTRUCTION).

REV. 11/09/22:
 REMOVED MISCELLANEOUS
 SURVEY POINT TEXT.
 ADDED EASEMENT LINES & TEXT.
 ADDED NATURAL FEATURES TEXT.

REV. 05/02/23:
 REMOVED PROPOSED
 R.O.W. AND ADDED PERMANENT
 EASEMENT.



- GRADED SOLID ROCK (GSR)
- COLD PLANING & RESURFACING
- ORDINARY HIGH WATER MARK (OHWM) = 682.36'



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SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION**

**EROSION PREVENTION
 & SEDIMENT CONTROL
 (EPSC) PLANS**
 STA 12+00 TO STA 23+00
 SCALE: 1"= 50'

STAGE 2
 (INTERMEDIATE CONSTRUCTION)
 PROPOSED CONTOURS AT 2' INTERVALS



35

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	12A
PS&E	2025	BRZ-1185(4)	12A

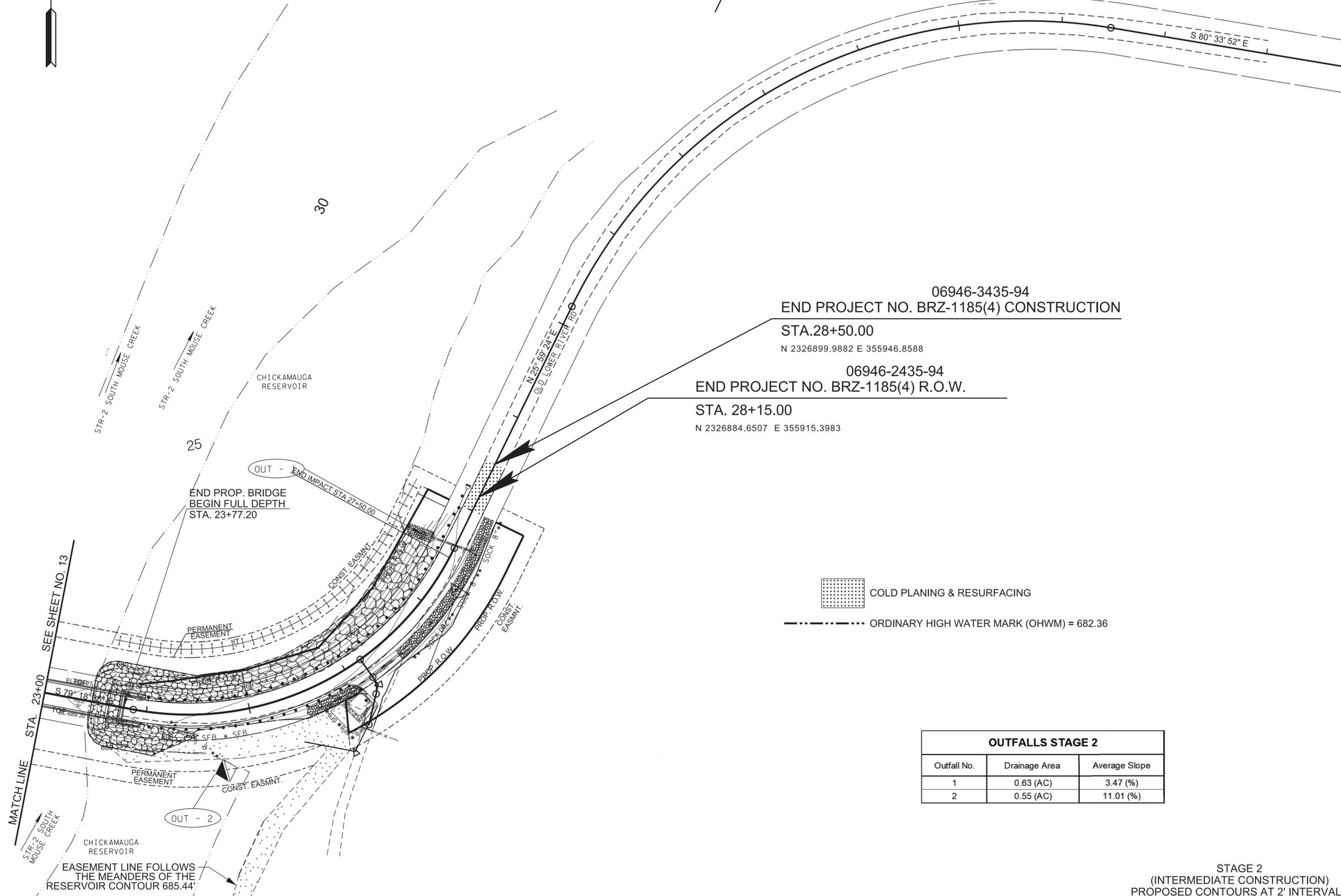
REV. 08/04/22:
ADDED SHEET 12A FOR STAGE 2
(INTERMEDIATE CONSTRUCTION)

REV. 11/09/22:
REMOVED MISCELLANEOUS
SURVEY POINT TEXT.
ADDED EASEMENT LINES & TEXT.
ADDED NATURAL FEATURES TEXT.

REV. 01/20/23:
UPDATED SLOPES
STA 28+15 - STA 28+50 LEFT
STA 24+50 - STA 28+00 RIGHT.
UPDATED SPECIAL DITCH.

REV. 03/03/23:
UPDATED CONTOURS.

REV. 05/02/23:
UPDATED PROPOSED
R.O.W. AND ADDED PERMANENT
EASEMENT.
ADDED DITCH LINING RIP-RAP, CLASS A1.



06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA. 28+50.00
N 2326899.9882 E 355946.8588

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.

STA. 28+15.00
N 2326884.6507 E 355915.3983



COLD PLANING & RESURFACING

--- ORDINARY HIGH WATER MARK (OHWM) = 682.36

OUTFALLS STAGE 2

Outfall No.	Drainage Area	Average Slope
1	0.63 (AC)	3.47 (%)
2	0.55 (AC)	11.01 (%)

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION PREVENTION
& SEDIMENT CONTROL
(EPSC) PLANS**
STA 23+00 TO STA 28+50
SCALE: 1"= 50'

STAGE 2
(INTERMEDIATE CONSTRUCTION)
PROPOSED CONTOURS AT 2' INTERVALS

06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

STA.12+00.00
 N 356247.6963 E 2325529.2335

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	13
PS&E	2025	BRZ-1185(4)	13

REV. 08/04/22:
 REVISED SHEET 13 FROM STAGE 2
 (FINAL CONSTRUCTION) TO STAGE 3.

REV. 11/09/22:
 REMOVED MISCELLANEOUS
 SURVEY POINT TEXT.
 ADDED EASEMENT LINES & TEXT.
 ADDED NATURAL FEATURES TEXT.

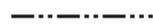
REV. 03/03/23:
 UPDATED CONTOURS.

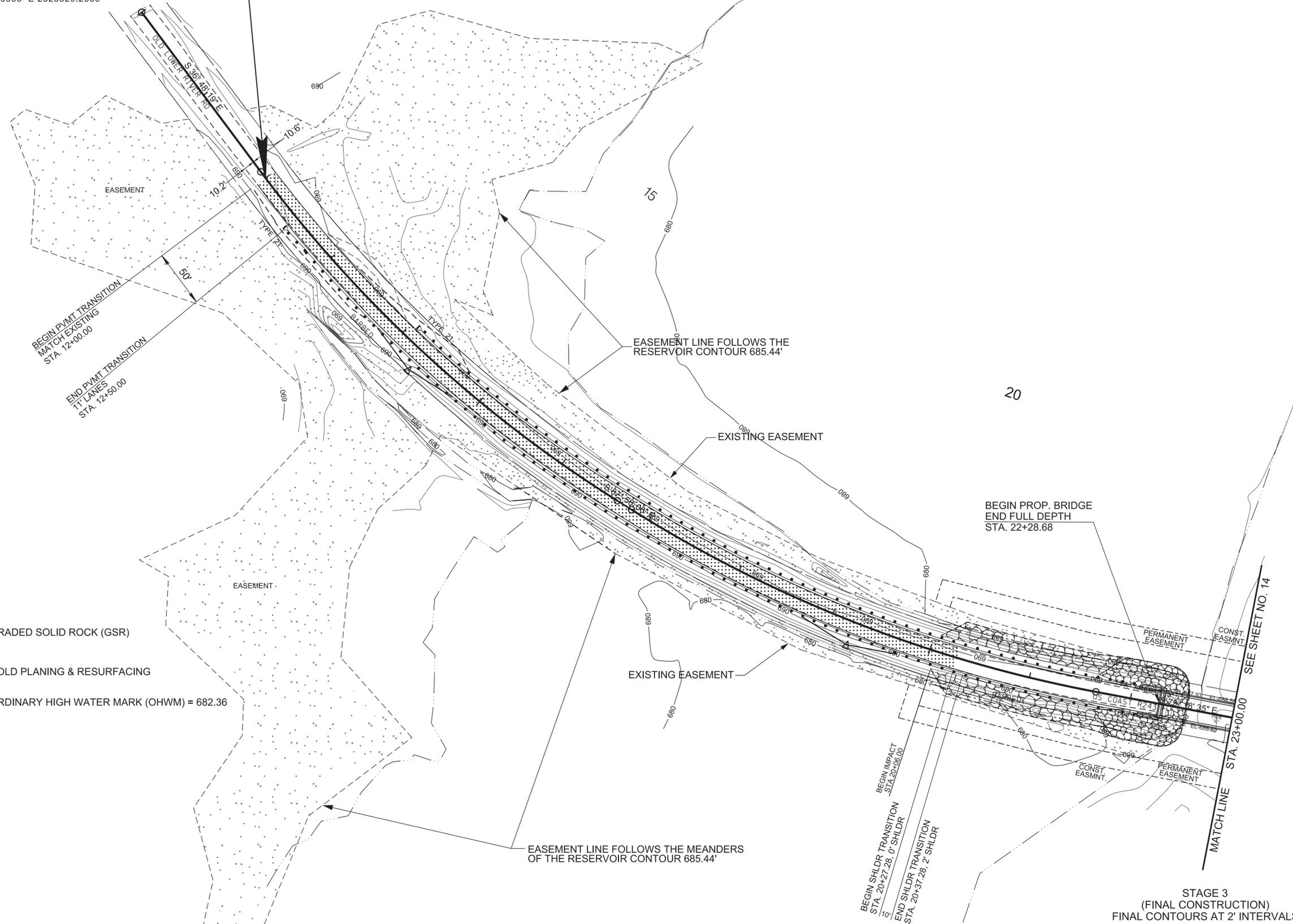
REV. 05/02/23:
 UPDATED PROPOSED
 R.O.W. AND ADDED PERMANENT
 EASEMENT.



 GRADED SOLID ROCK (GSR)

 COLD PLANING & RESURFACING

 ORDINARY HIGH WATER MARK (OHWM) = 682.36



STAGE 3
 (FINAL CONSTRUCTION)
 FINAL CONTOURS AT 2' INTERVALS

SEALED BY



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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION
 & SEDIMENT CONTROL
 (EPSC) PLANS
 STA 12+00 TO STA 23+00
 SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	13A
PS&E	2025	BRZ-1185(4)	13A

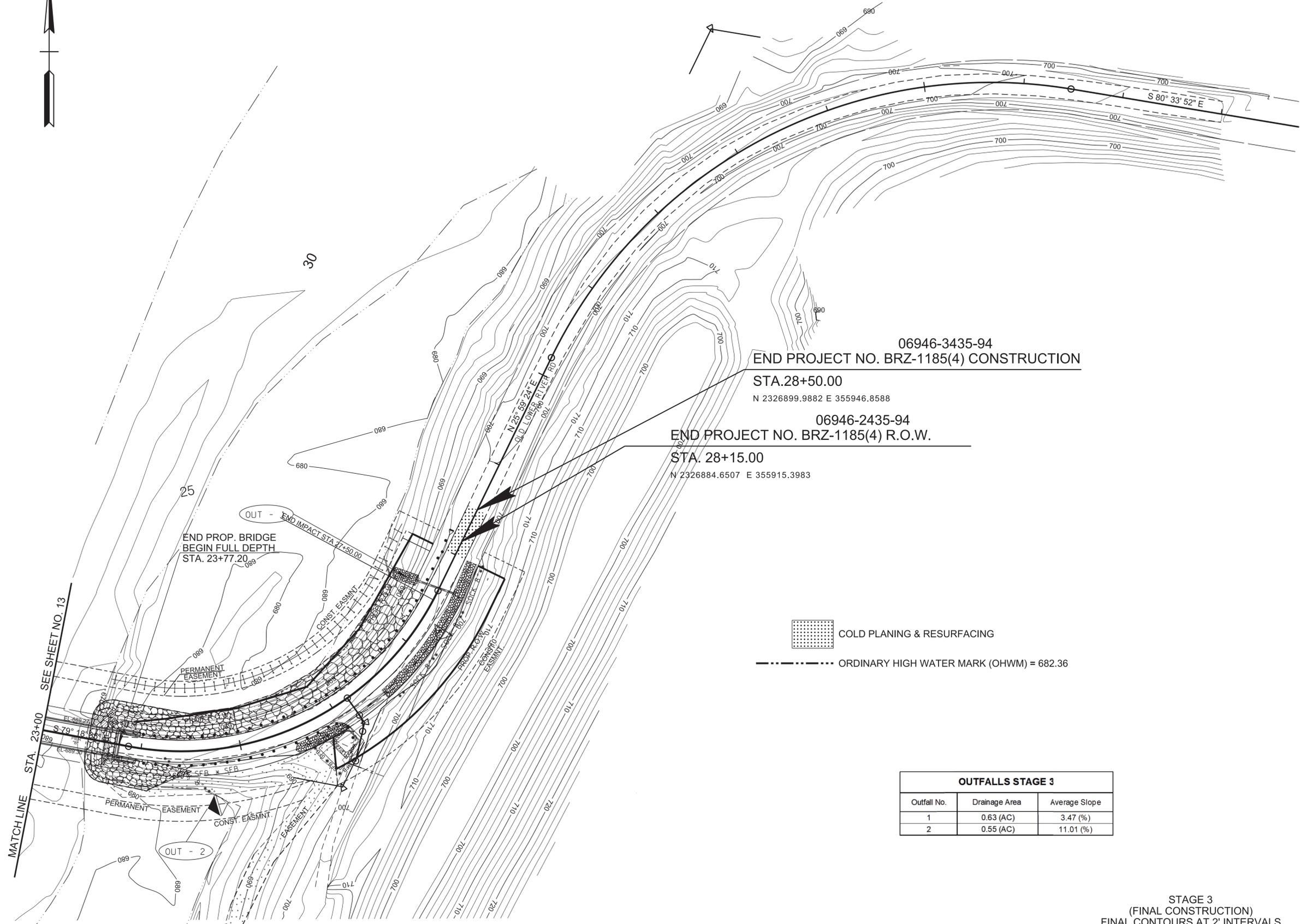
REV. 08/04/22:
 REVISED SHEET NUMBER 14 TO 13A.
 REVISED STAGE 2 (FINAL CONSTRUCTION)
 TO STAGE 3.

REV. 11/09/22:
 REMOVED MISCELLANEOUS
 SURVEY POINT TEXT.
 ADDED EASEMENT LINES & TEXT.
 ADDED NATURAL FEATURES TEXT.

REV. 01/20/23:
 UPDATED SLOPES
 STA 28+15 - 28+50 LEFT
 STA 24+50 - 28+00 RIGHT.
 UPDATED SPECIAL DITCH.

REV. 03/03/23:
 UPDATED CONTOURS.

REV. 05/02/23:
 UPDATED PROPOSED
 R.O.W. AND ADDED PERMANENT
 EASEMENT.
 ADDED DITCH LINING RIP-RAP, CLASS A1.



06946-3435-94
 END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA. 28+50.00
 N 2326899.9882 E 355946.8588

06946-2435-94
 END PROJECT NO. BRZ-1185(4) R.O.W.

STA. 28+15.00
 N 2326884.6507 E 355915.3983



COLD PLANING & RESURFACING

--- ORDINARY HIGH WATER MARK (OHWM) = 682.36

OUTFALLS STAGE 3

Outfall No.	Drainage Area	Average Slope
1	0.63 (AC)	3.47 (%)
2	0.55 (AC)	11.01 (%)

SEALED BY



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 TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**EROSION PREVENTION
 & SEDIMENT CONTROL
 (EPSC) PLANS**
 STA 23+00 TO STA 28+50
 SCALE: 1" = 50'

STAGE 3
 (FINAL CONSTRUCTION)
 FINAL CONTOURS AT 2' INTERVALS

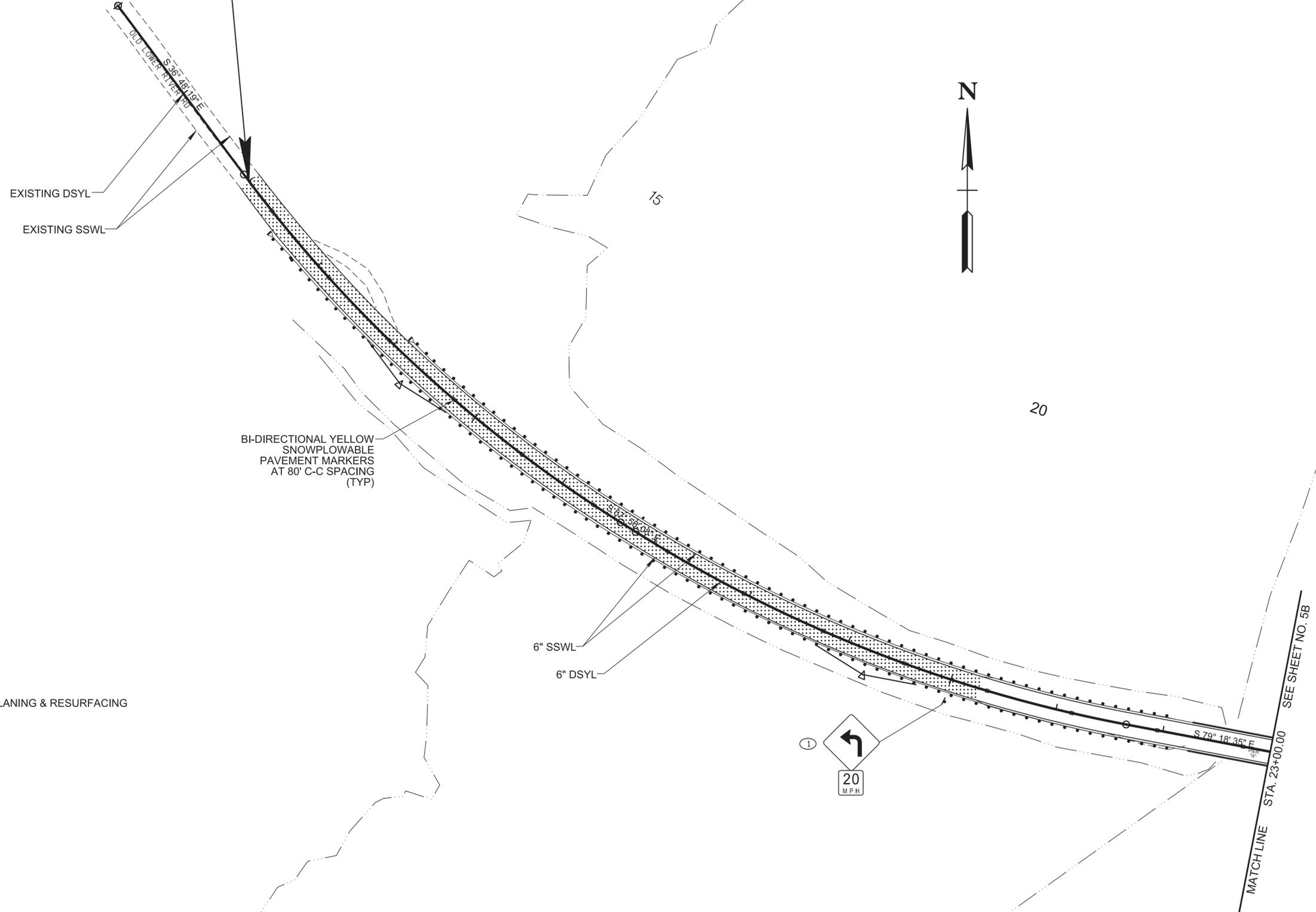
06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.

STA.12+00.00
 N 356247.6963 E 2325529.2335

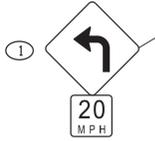
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	14



 COLD PLANING & RESURFACING

BI-DIRECTIONAL YELLOW
 SNOWPLOWABLE
 PAVEMENT MARKERS
 AT 80' C-C SPACING
 (TYP)

6" SSWL
 6" DSYL



MATCHLINE
 STA. 23+00.00
 SEE SHEET NO. 5B

SEALED BY

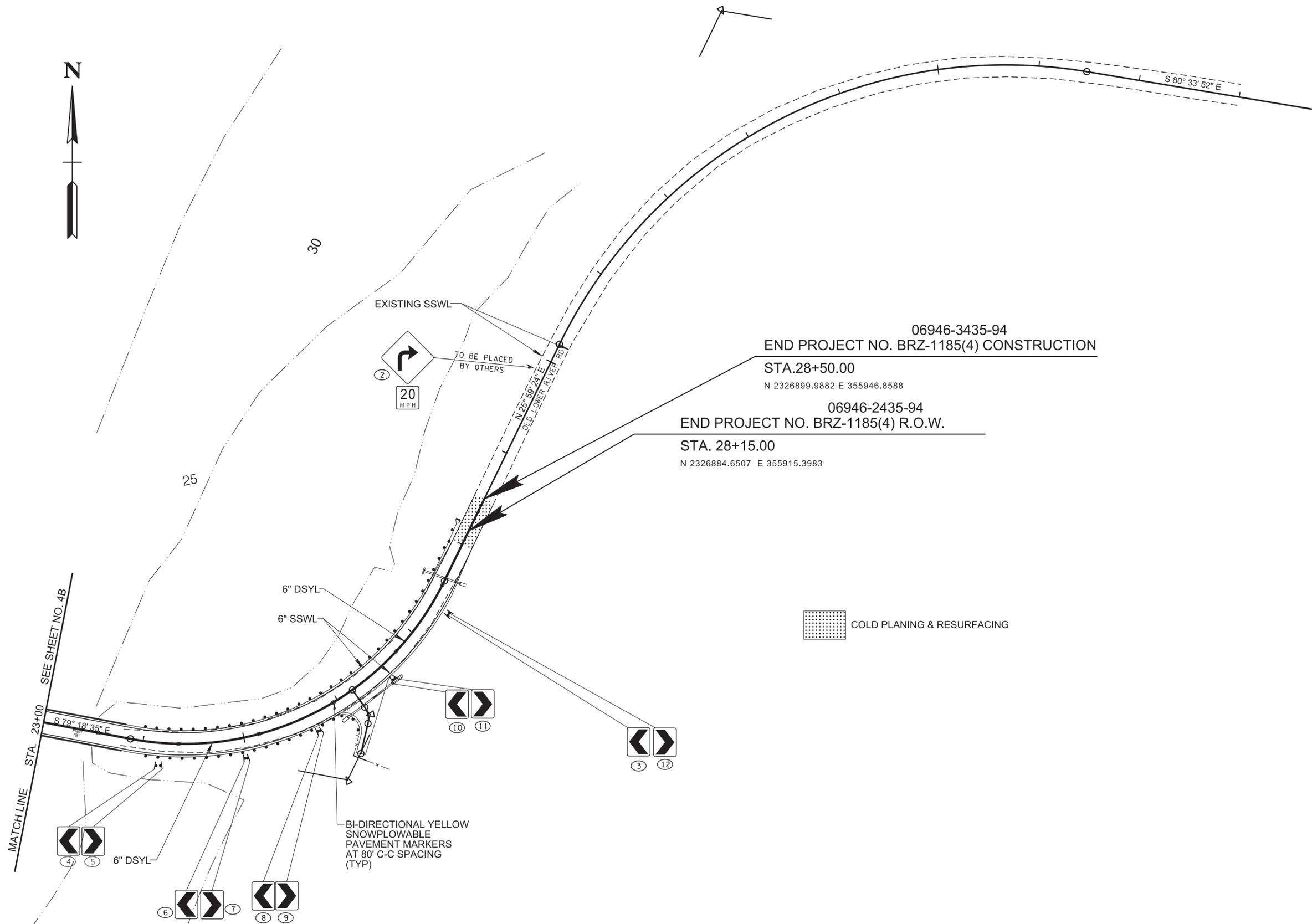


COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION**

**SIGNING AND
 PAVEMENT
 MARKING
 PLAN**
 STA 12+00 TO STA 23+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	15



06946-3435-94
 END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA. 28+50.00
 N 2326899.9882 E 355946.8588

06946-2435-94
 END PROJECT NO. BRZ-1185(4) R.O.W.

STA. 28+15.00
 N 2326884.6507 E 355915.3983

 COLD PLANING & RESURFACING

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**STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION**

SIGNING AND PAVEMENT MARKING PLAN
 STA 23+00 TO STA 28+50
 SCALE: 1"=50'

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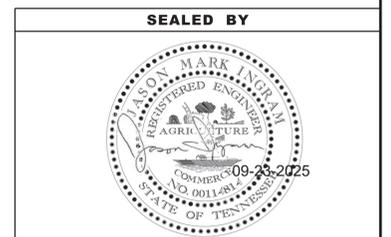
22-SEP-2025 09:37 \\dot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\016.sht

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	16

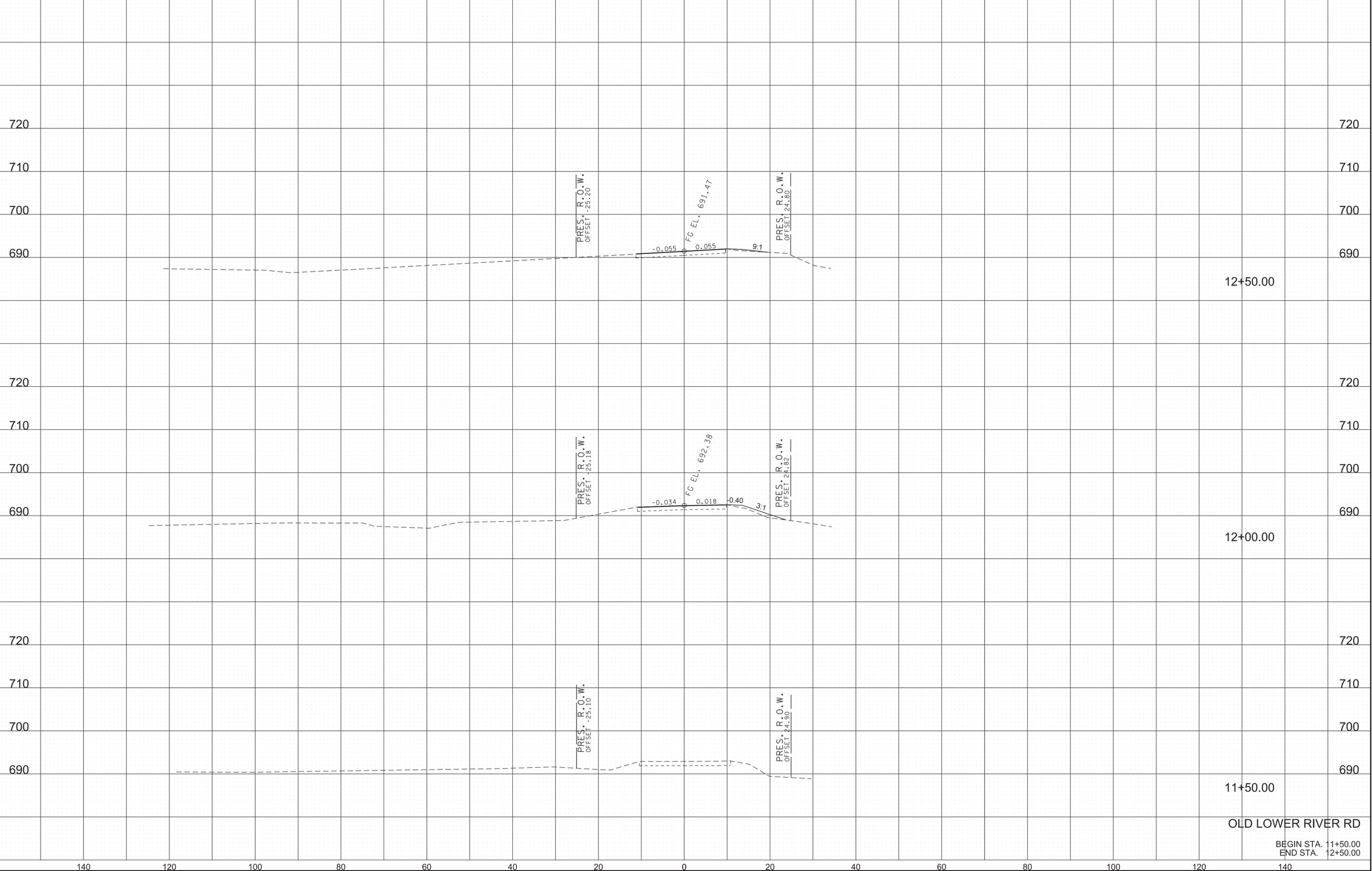
SIGN NO	LEGEND	SHEET NO	SIZE		COPY			SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)				MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL			LOWER CASE	NUMERAL	SERIES	COPY	BACKGROUND	MATERIAL	SUPPORT TYPE			SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.
1	 W1-1L W13-1P		36"	36"						BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h = 15'-6"			5'-0"	713-02.21 SIGN POST DELINEATION ENHANCEMENT (YELLOW)
2	 W1-1R W13-1P		36"	36"						BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h = 15'-6"			5'-0"	713-02.21 SIGN POST DELINEATION ENHANCEMENT (YELLOW) THIS SIGN ASSEMBLY IS BEYOND PROJECT LIMITS, AND IS TO BE PLACED BY THE COUNTY ROAD DEPARTMENT.
3 4 6 8 10	 W1-8		24"	30"						BLACK	YELLOW (FLOR.)	0.080" SHEET ALUMINUM	P8	h = 10'-6" h = 10'-6" h = 10'-6" h = 10'-6" h = 10'-6"			5'-0"	713-02.21 SIGN POST DELINEATION ENHANCEMENT (YELLOW)
5 7 9 11 12	 W1-8		24"	30"						BLACK	YELLOW (FLOR.)	0.080" SHEET ALUMINUM	P8	h = 10'-6" h = 10'-6" h = 10'-6" h = 10'-6"			5'-0"	713-02.21 SIGN POST DELINEATION ENHANCEMENT (YELLOW)



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN
SCHEDULE

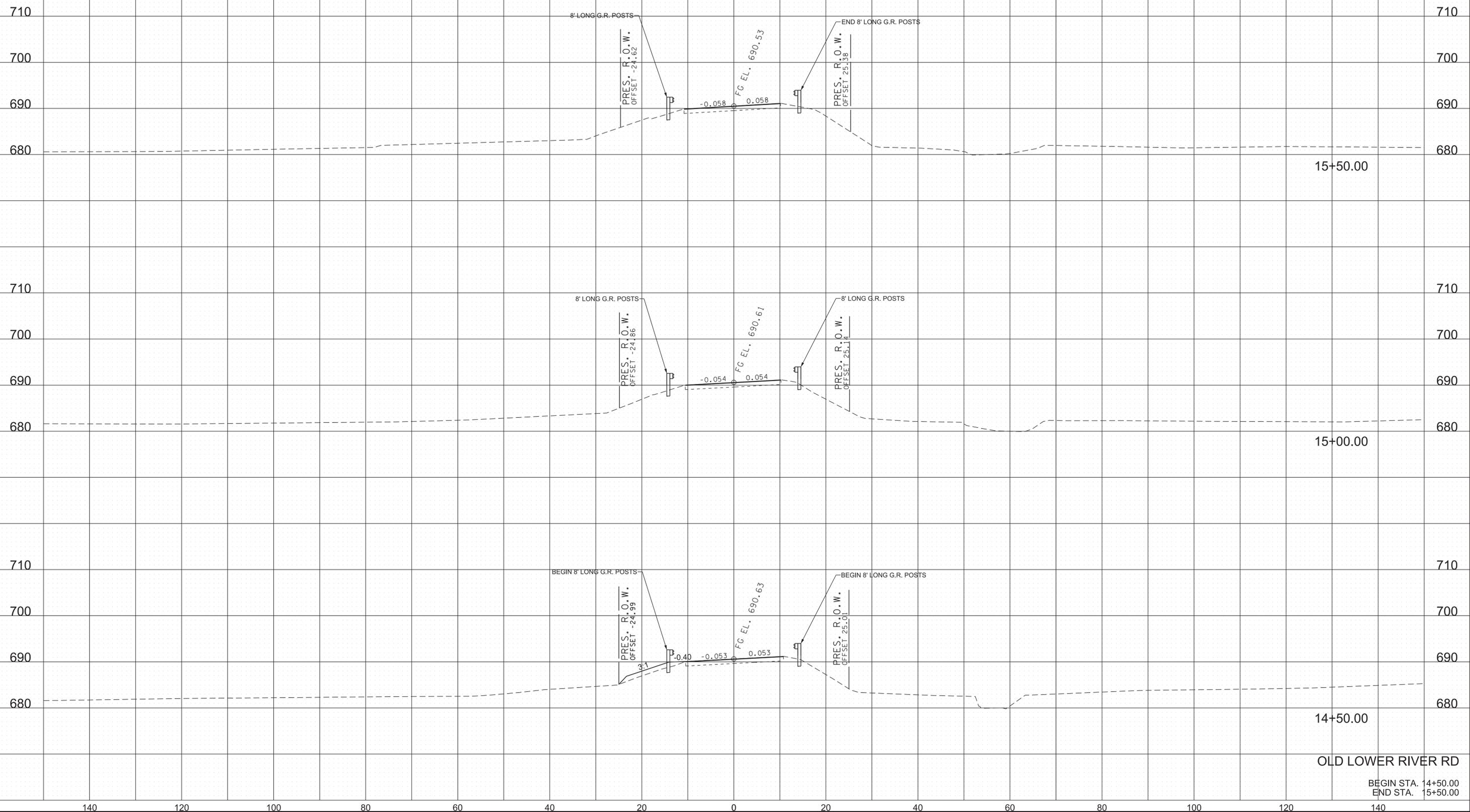
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	15
PS&E	2025	BRZ-1185(4)	17



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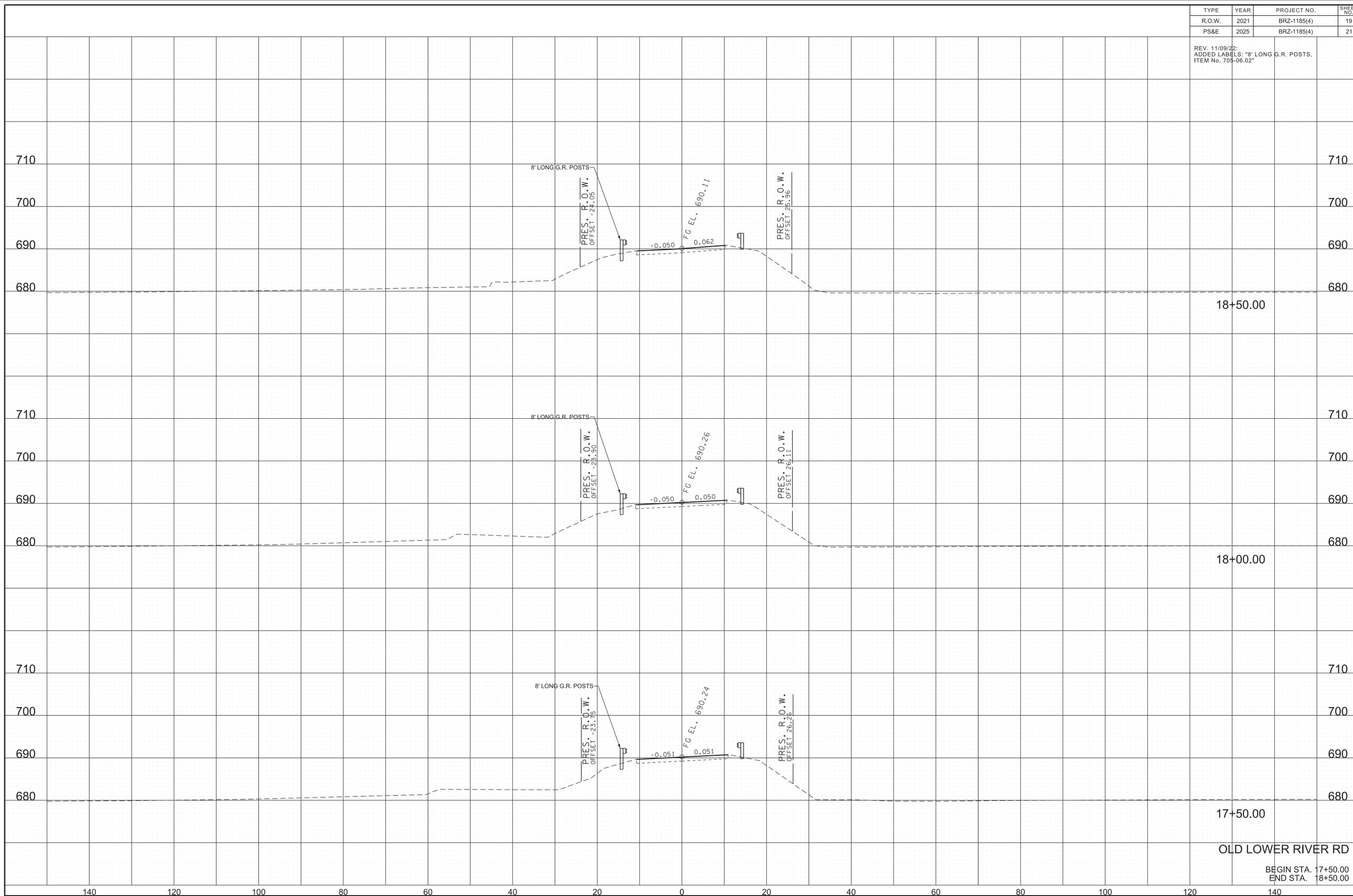
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	17
PS&E	2025	BRZ-1185(4)	19

REV. 11/09/22:
ADDED LABELS: "8' LONG G.R. POSTS,
ITEM No. 705-06.02"



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	19
PS&E	2025	BRZ-1185(4)	21

REV. 11/09/22:
ADDED LABELS: "8' LONG G.R. POSTS,
ITEM No. 705-06.02"

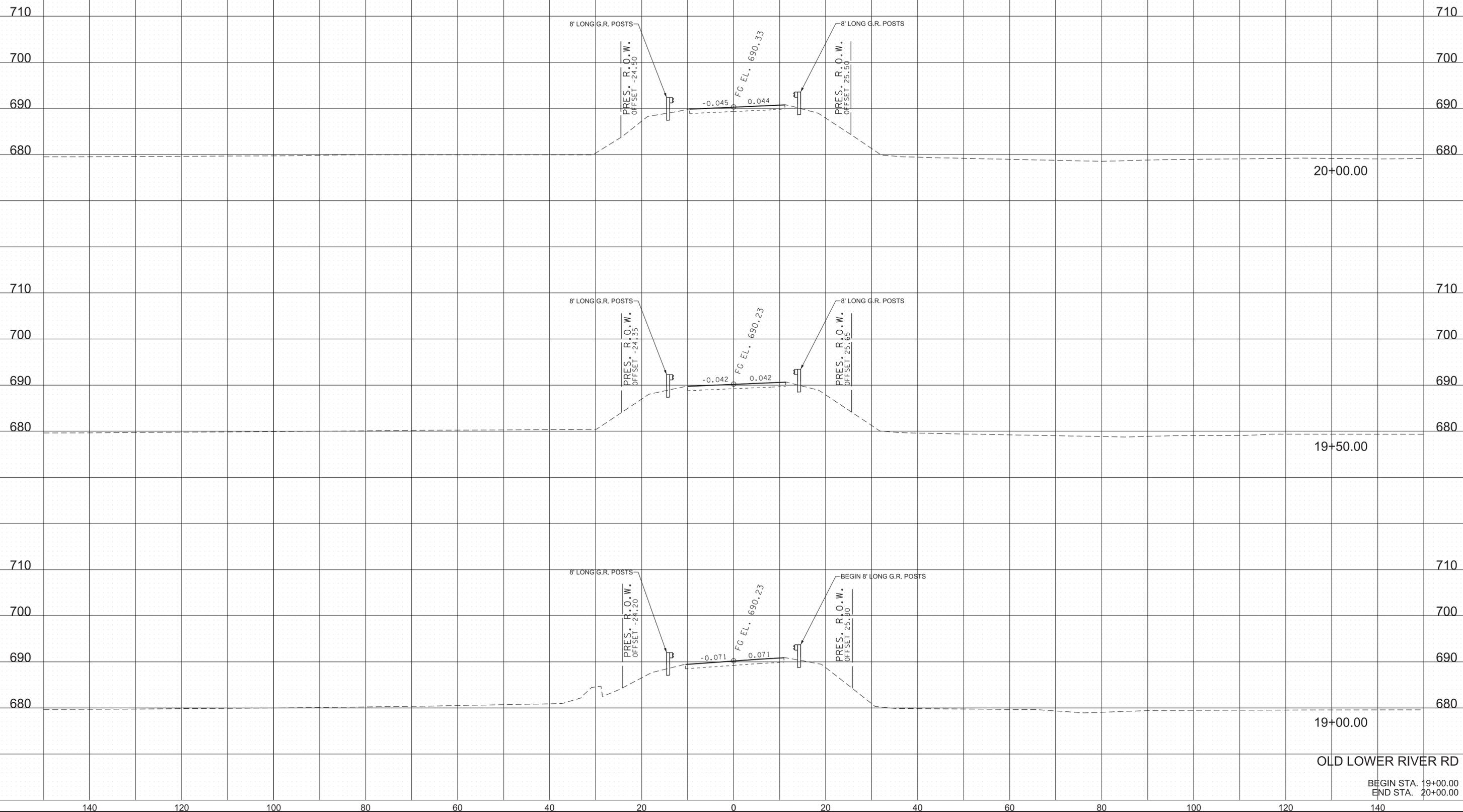


OLD LOWER RIVER RD

BEGIN STA. 17+50.00
END STA. 18+50.00

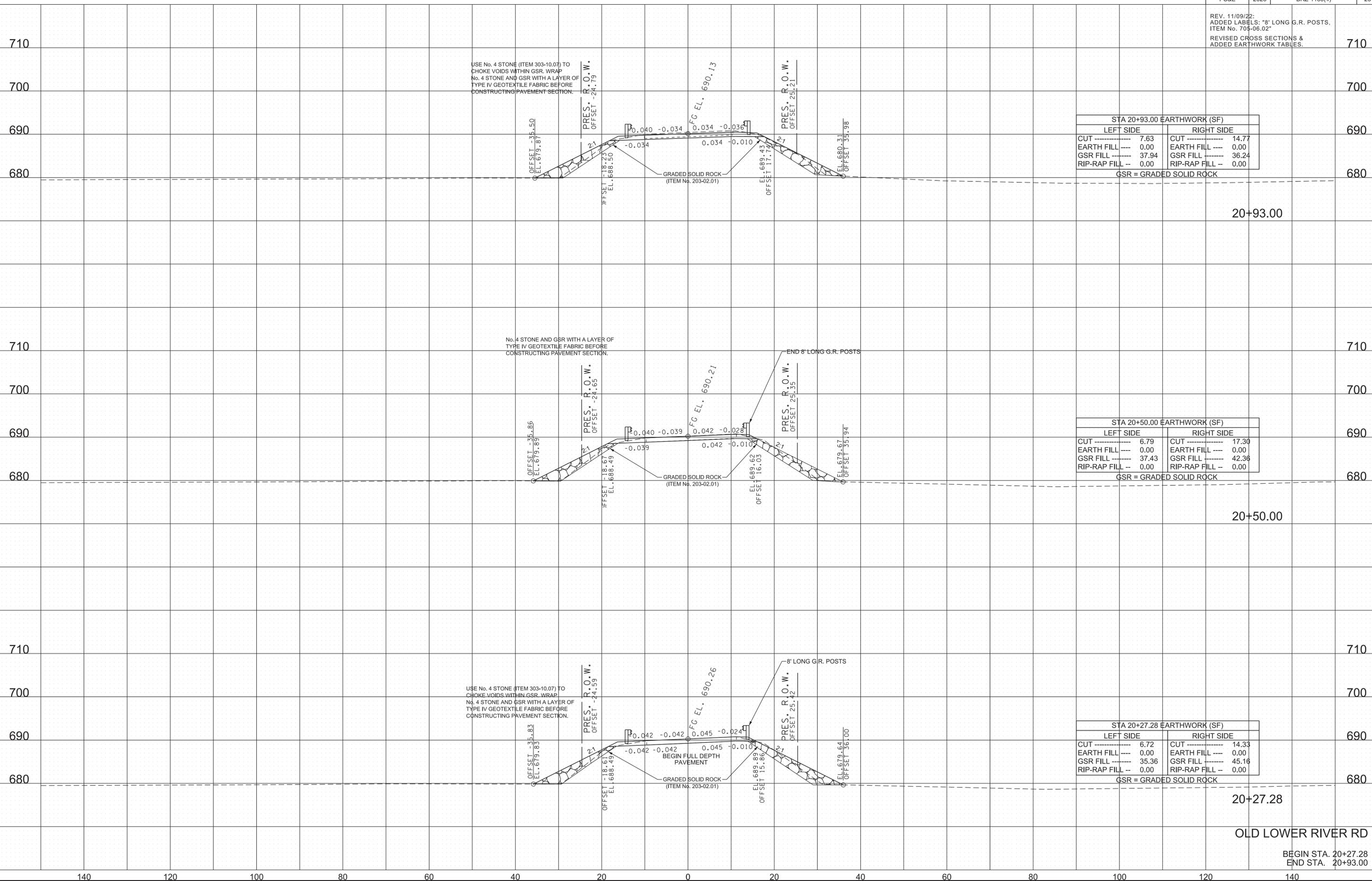
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	20
PS&E	2025	BRZ-1185(4)	22

REV. 11/09/22:
ADDED LABELS: "8' LONG G.R. POSTS"
ITEM No. 705-06.02"



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	21
PS&E	2025	BRZ-1185(4)	23

REV. 11/09/22:
 ADDED LABELS: "8' LONG G.R. POSTS,
 ITEM No. 705-06.02"
 REVISED CROSS SECTIONS &
 ADDED EARTHWORK TABLES.



STA 20+93.00 EARTHWORK (SF)	
LEFT SIDE	RIGHT SIDE
CUT ----- 7.63	CUT ----- 14.77
EARTH FILL --- 0.00	EARTH FILL --- 0.00
GSR FILL ----- 37.94	GSR FILL ----- 36.24
RIP-RAP FILL -- 0.00	RIP-RAP FILL -- 0.00
GSR = GRADED SOLID ROCK	

STA 20+50.00 EARTHWORK (SF)	
LEFT SIDE	RIGHT SIDE
CUT ----- 6.79	CUT ----- 17.30
EARTH FILL --- 0.00	EARTH FILL --- 0.00
GSR FILL ----- 37.43	GSR FILL ----- 42.36
RIP-RAP FILL -- 0.00	RIP-RAP FILL -- 0.00
GSR = GRADED SOLID ROCK	

STA 20+27.28 EARTHWORK (SF)	
LEFT SIDE	RIGHT SIDE
CUT ----- 6.72	CUT ----- 14.33
EARTH FILL --- 0.00	EARTH FILL --- 0.00
GSR FILL ----- 35.36	GSR FILL ----- 45.16
RIP-RAP FILL -- 0.00	RIP-RAP FILL -- 0.00
GSR = GRADED SOLID ROCK	

20+93.00

20+50.00

20+27.28

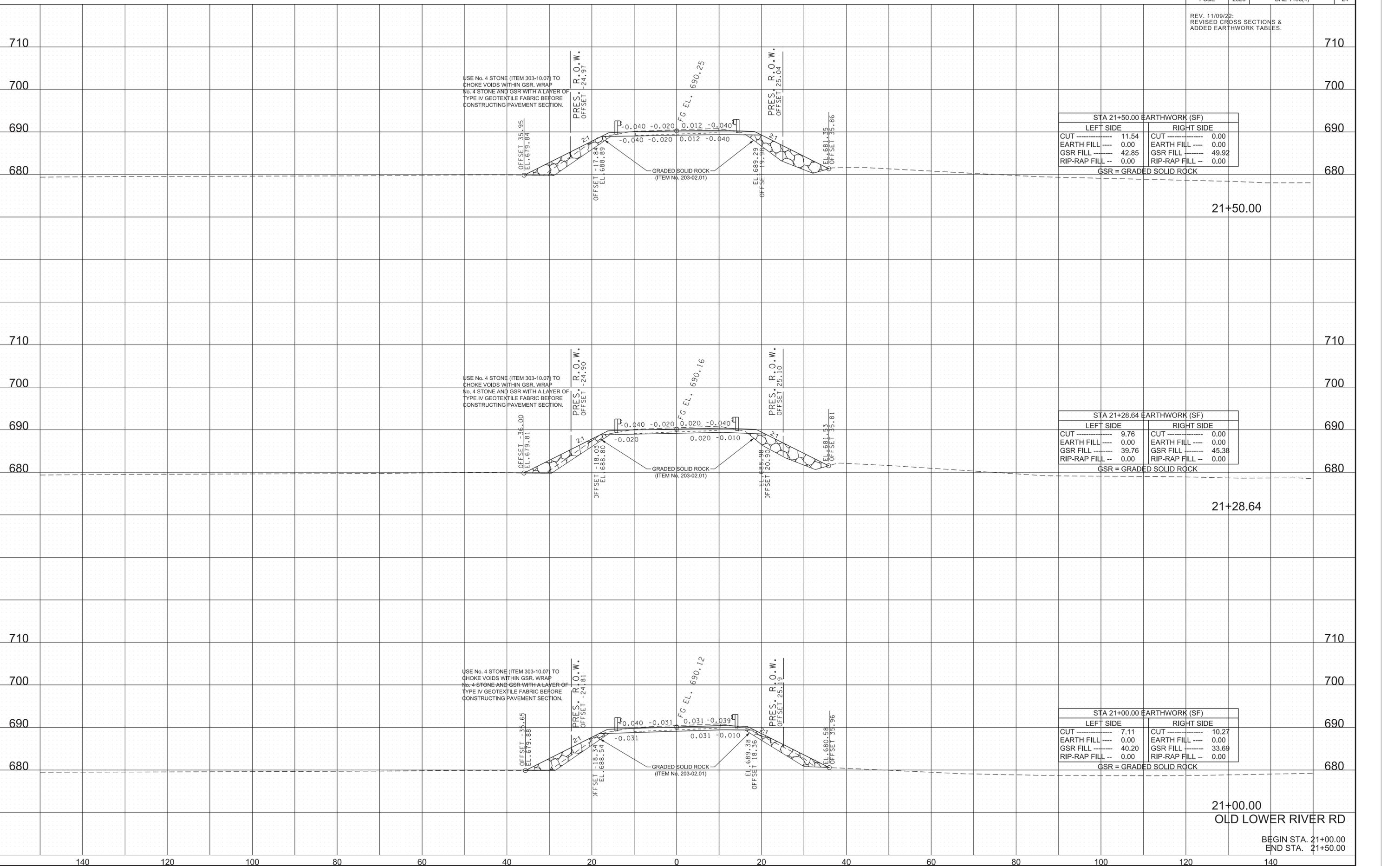
OLD LOWER RIVER RD

BEGIN STA. 20+27.28
 END STA. 20+93.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	22
PS&E	2025	BRZ-1185(4)	24

REV. 11/09/22:
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.



21+50.00

21+28.64

21+00.00
OLD LOWER RIVER RD

BEGIN STA. 21+00.00
END STA. 21+50.00

140 120 100 80 60 40 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	23
PS&E	2025	BRZ-1185(4)	25

REV. 11/09/22:
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

710

710

700

700

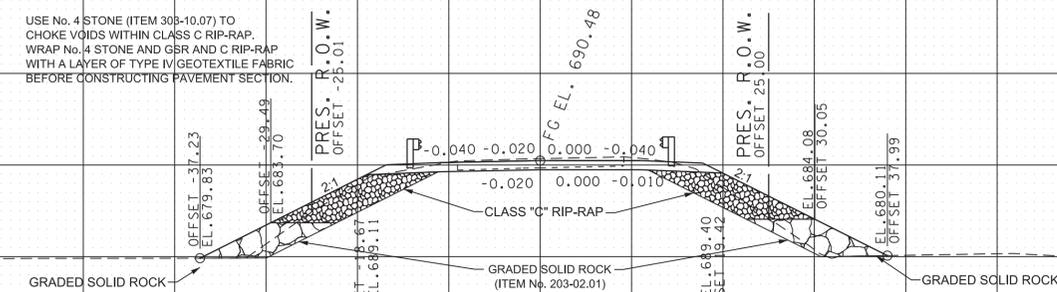
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USE No. 4 STONE (ITEM 303-10.07) TO
CHOKE VOIDS WITHIN CLASS C RIP-RAP.
WRAP No. 4 STONE AND GSR AND C RIP-RAP
WITH A LAYER OF TYPE IV GEOTEXTILE FABRIC
BEFORE CONSTRUCTING PAVEMENT SECTION.



STA 21+79.57 EARTHWORK (SF)			
	LEFT SIDE	RIGHT SIDE	
CUT	54.91	39.15	
EARTH FILL	0.00	0.00	
GSR FILL	27.85	30.36	
RIP-RAP FILL	38.96	39.01	
GSR = GRADED SOLID ROCK			

21+79.57
TRANSITION FROM
GSR TO RIPRAP

710

710

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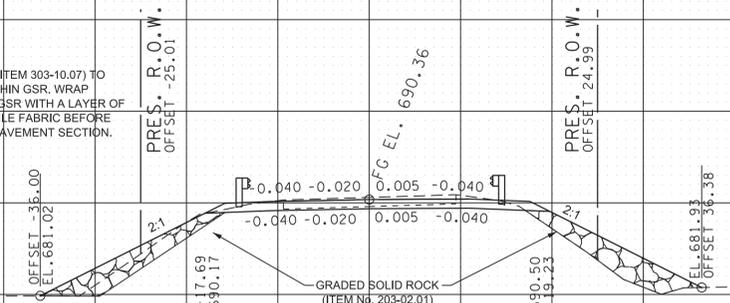
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USE No. 4 STONE (ITEM 303-10.07) TO
CHOKE VOIDS WITHIN GSR. WRAP
No. 4 STONE AND GSR WITH A LAYER OF
TYPE IV GEOTEXTILE FABRIC BEFORE
CONSTRUCTING PAVEMENT SECTION.



STA 21+65.72 EARTHWORK (SF)			
	LEFT SIDE	RIGHT SIDE	
CUT	40.53	16.82	
EARTH FILL	0.00	0.00	
GSR FILL	39.11	41.36	
RIP-RAP FILL	0.00	0.00	
GSR = GRADES SOLID ROCK			

21+65.72 PT

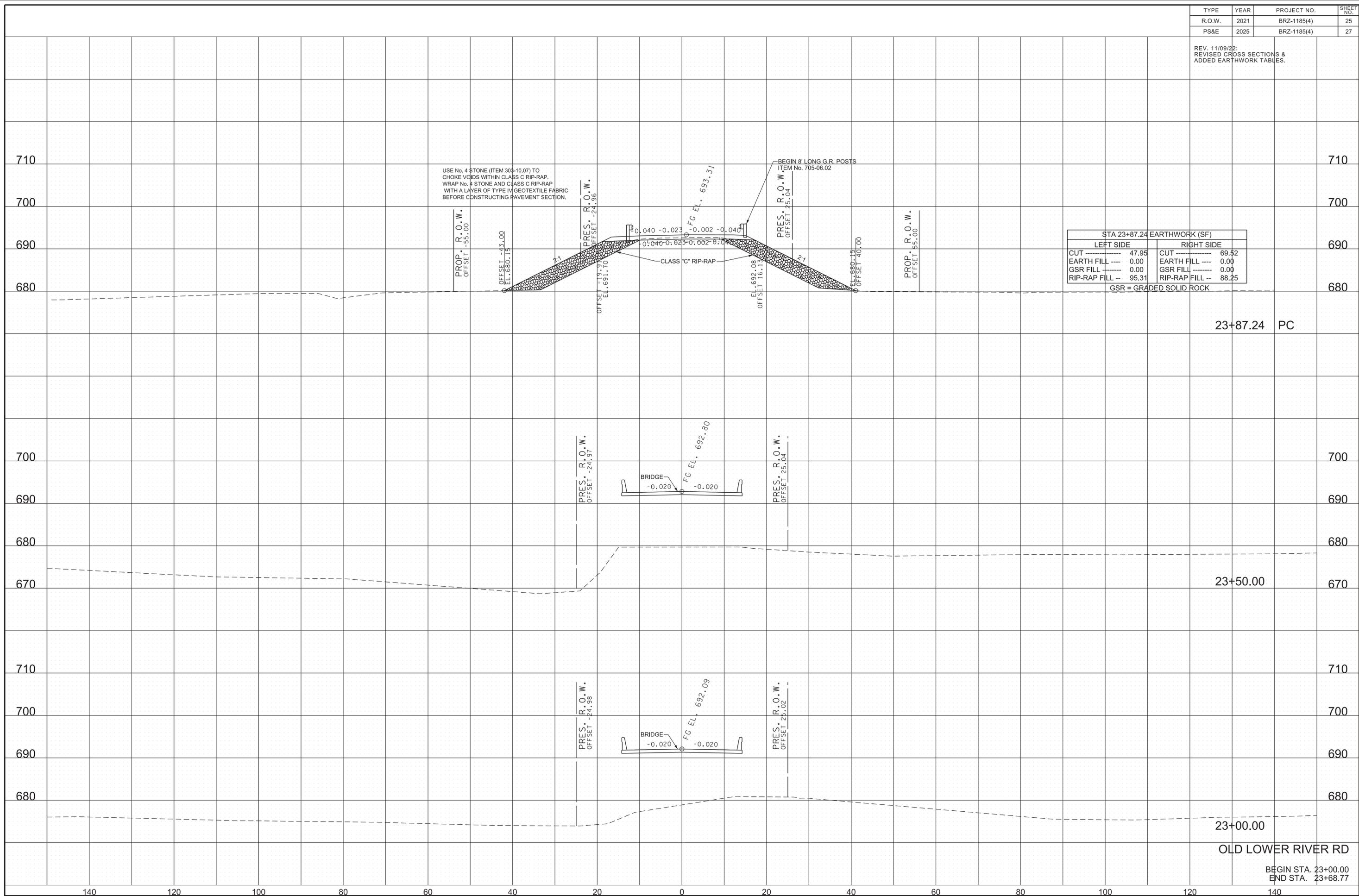
OLD LOWER RIVER RD

BEGIN STA. 21+65.72
END STA. 22+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	25
PS&E	2025	BRZ-1185(4)	27

REV. 11/09/22:
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.



USE No. 4 STONE (ITEM 303-10.07) TO
CHOKER VOIDS WITHIN CLASS C RIP-RAP.
WRAP No. 4 STONE AND CLASS C RIP-RAP
WITH A LAYER OF TYPE IV GEOTEXTILE FABRIC
BEFORE CONSTRUCTING PAVEMENT SECTION.

BEGIN 8' LONG G.R. POSTS
ITEM No. 705-06.02

STA 23+87.24 EARTHWORK (SF)			
LEFT SIDE		RIGHT SIDE	
CUT	47.95	CUT	69.52
EARTH FILL	0.00	EARTH FILL	0.00
GSR FILL	0.00	GSR FILL	0.00
RIP-RAP FILL	95.31	RIP-RAP FILL	88.25

GSR = GRADED SOLID ROCK

23+87.24 PC

23+50.00

23+00.00

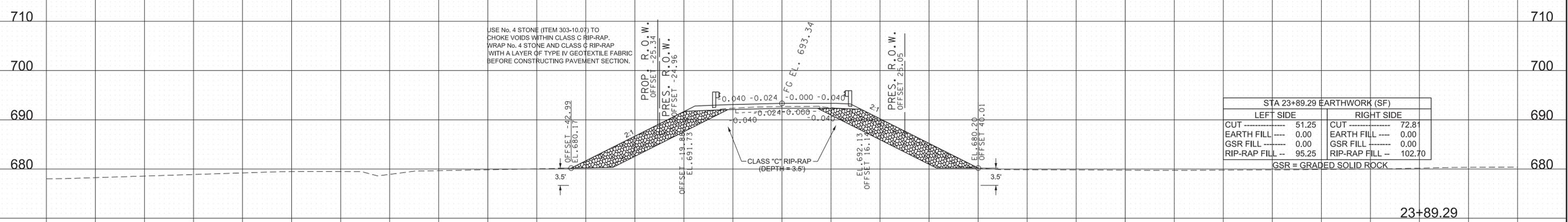
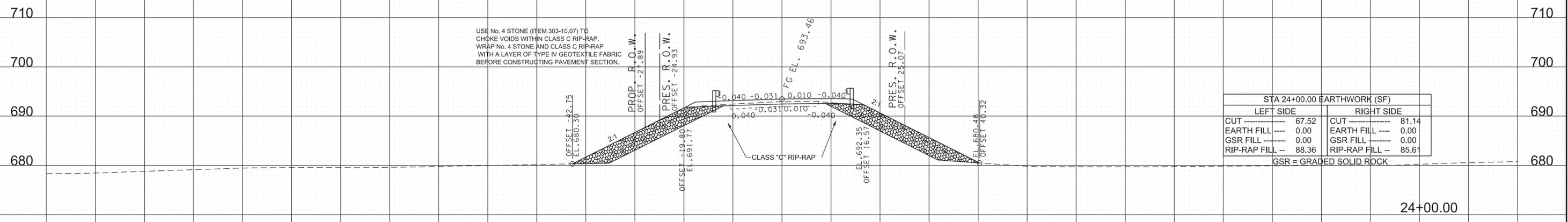
OLD LOWER RIVER RD

BEGIN STA. 23+00.00
END STA. 23+68.77

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	26
PS&E	2025	BRZ-1185(4)	28

REV. 11/09/22:
 ADDED LABELS: "8' LONG G.R. POSTS,
 ITEM No. 705-06.02"
 REVISED CROSS SECTIONS &
 ADDED EARTHWORK TABLES.
 REMOVED CROSS SECTION STA 23+87.24.
 REV. 05/02/23:
 UPDATED PROPOSED R.O.W. ON LEFT SIDE.



OLD LOWER RIVER RD

BEGIN STA. 23+87.24
 END STA. 24+00.00

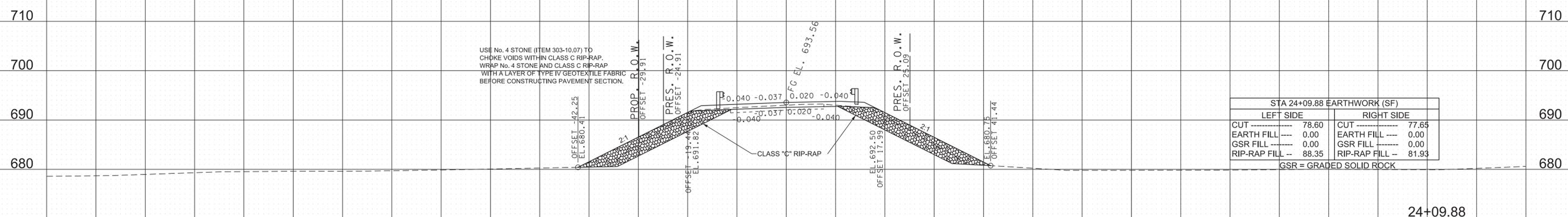
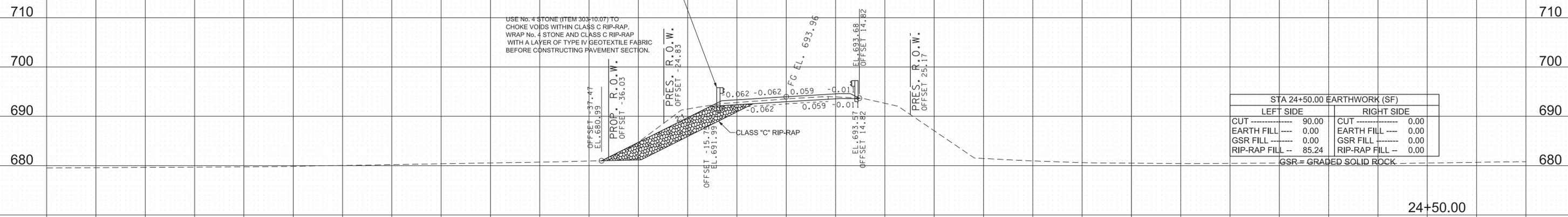
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	27
PS&E	2025	BRZ-1185(4)	29

REV. 11/09/22:
ADDED LABELS: "8' LONG G.R. POSTS,
ITEM No. 704-06.02"
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

REV. 01/20/23:
REMOVED REFERENCE TO
ITEM No. 704-06.02 FROM
8' LONG G.R. POST LABEL.

REV. 01/20/23:
UPDATED RIGHT DITCH.

REV. 05/02/23:
UPDATED PROPOSED R.O.W. ON LEFT SIDE.



OLD LOWER RIVER RD

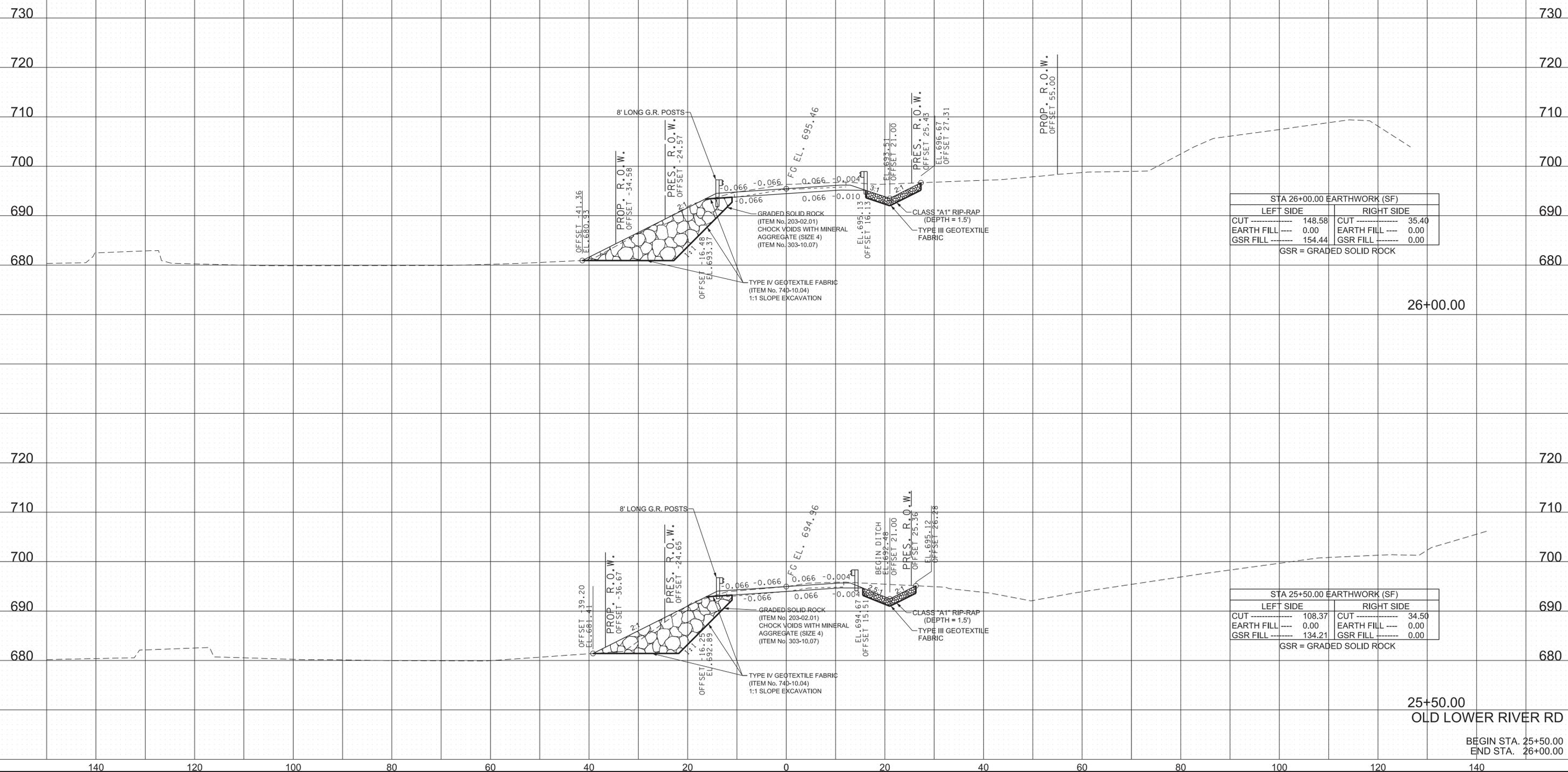
BEGIN STA. 24+09.88
END STA. 24+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	29
PS&E	2025	BRZ-1185(4)	31

REV. 11/09/22:
ADDED LABELS: "8' LONG G.R. POSTS,
ITEM No. 705-06.02"
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

REV. 01/20/23:
UPDATED RIGHT DITCH.

REV. 05/02/23:
UPDATED RIGHT DITCH WITH CLASS
A1 RIP-RAP AND TYPE III GEOTEXTILE
FABRIC.
UPDATED RIGHT SIDE CUT AREA IN
EARTHWORK TABLE.
UPDATED PROPOSED R.O.W. ON LEFT
SIDE.



STA 26+00.00 EARTHWORK (SF)

	LEFT SIDE	RIGHT SIDE
CUT	148.58	35.40
EARTH FILL	0.00	0.00
GSR FILL	154.44	0.00

GSR = GRADED SOLID ROCK

STA 25+50.00 EARTHWORK (SF)

	LEFT SIDE	RIGHT SIDE
CUT	108.37	34.50
EARTH FILL	0.00	0.00
GSR FILL	134.21	0.00

GSR = GRADED SOLID ROCK

26+00.00

25+50.00
OLD LOWER RIVER RD

BEGIN STA. 25+50.00
END STA. 26+00.00

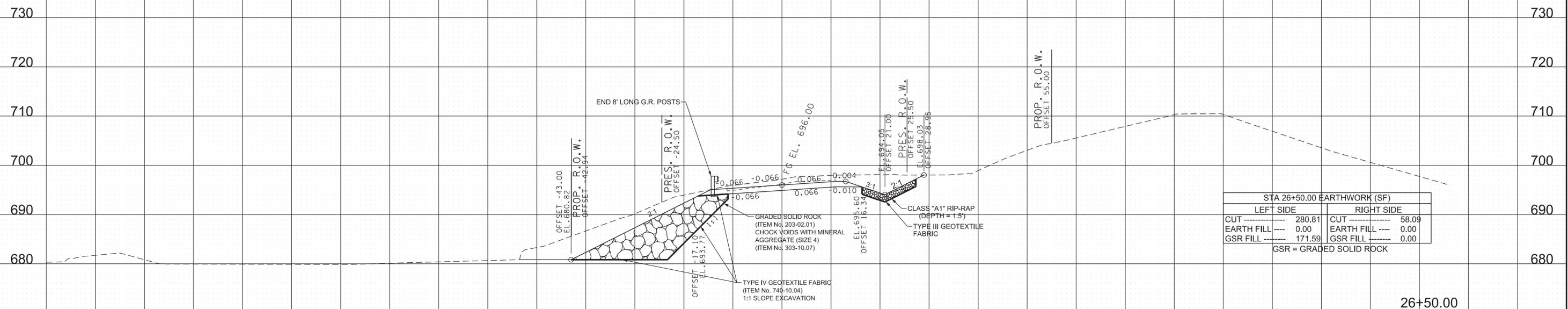
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	30
PS&E	2025	BRZ-1185(4)	32

REV. 11/09/22:
ADDED LABELS: "8" LONG G.R. POSTS,
ITEM No. 705-06.02"
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

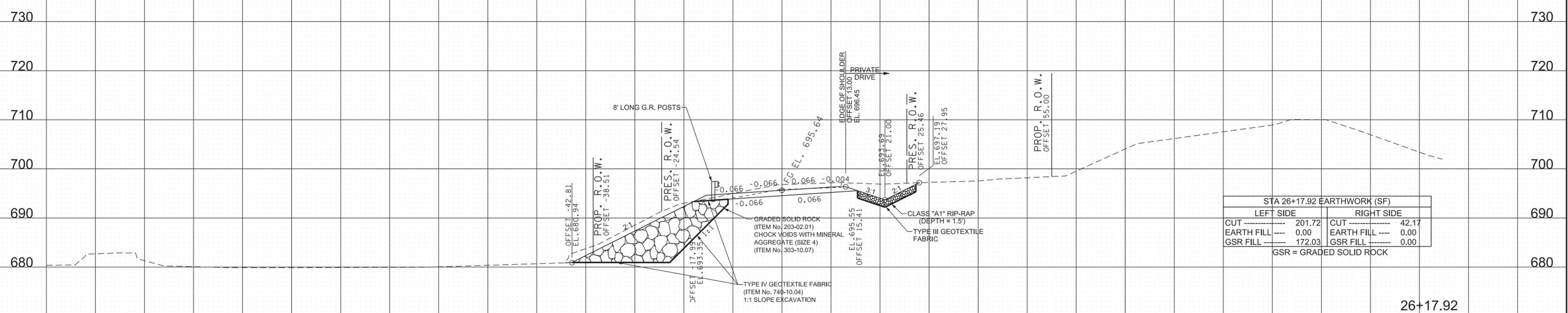
REV. 01/20/23:
UPDATED RIGHT DITCH.

REV. 05/02/23:
UPDATED RIGHT DITCH WITH CLASS
A1 RIP-RAP AND TYPE III GEOTEXTILE
FABRIC.
UPDATED RIGHT SIDE CUT AREA IN
EARTHWORK TABLE.
UPDATED PROPOSED R.O.W. ON LEFT
SIDE.



STA 26+50.00 EARTHWORK (SF)			
	LEFT SIDE		RIGHT SIDE
CUT	280.81	CUT	58.09
EARTH FILL	0.00	EARTH FILL	0.00
GSR FILL	171.59	GSR FILL	0.00

GSR = GRADED SOLID ROCK



STA 26+17.92 EARTHWORK (SF)			
	LEFT SIDE		RIGHT SIDE
CUT	201.72	CUT	42.17
EARTH FILL	0.00	EARTH FILL	0.00
GSR FILL	172.03	GSR FILL	0.00

GSR = GRADED SOLID ROCK

26+17.92
OLD LOWER RIVER RD
BEGIN STA. 26+17.92
END STA. 26+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	31
PS&E	2025	BRZ-1185(4)	33

REV. 11/09/23:
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

REV. 01/20/23:
UPDATED RIGHT DITCH.

REV. 05/02/23:
UPDATED RIGHT DITCH WITH CLASS
A1 RIP-RAP AND TYPE III GEOTEXTILE
FABRIC.
UPDATED RIGHT SIDE CUT AREA IN
EARTHWORK TABLE.
UPDATED PROPOSED R.O.W. ON LEFT
SIDE.

730

730

720

720

710

710

700

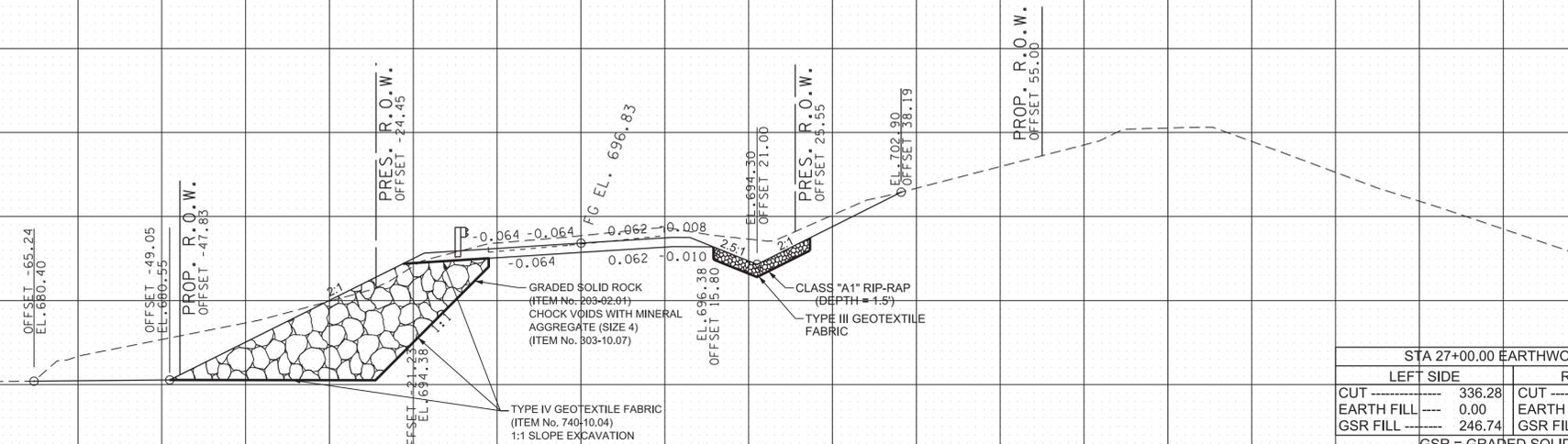
700

690

690

680

680



27+00.00

730

730

720

720

710

710

700

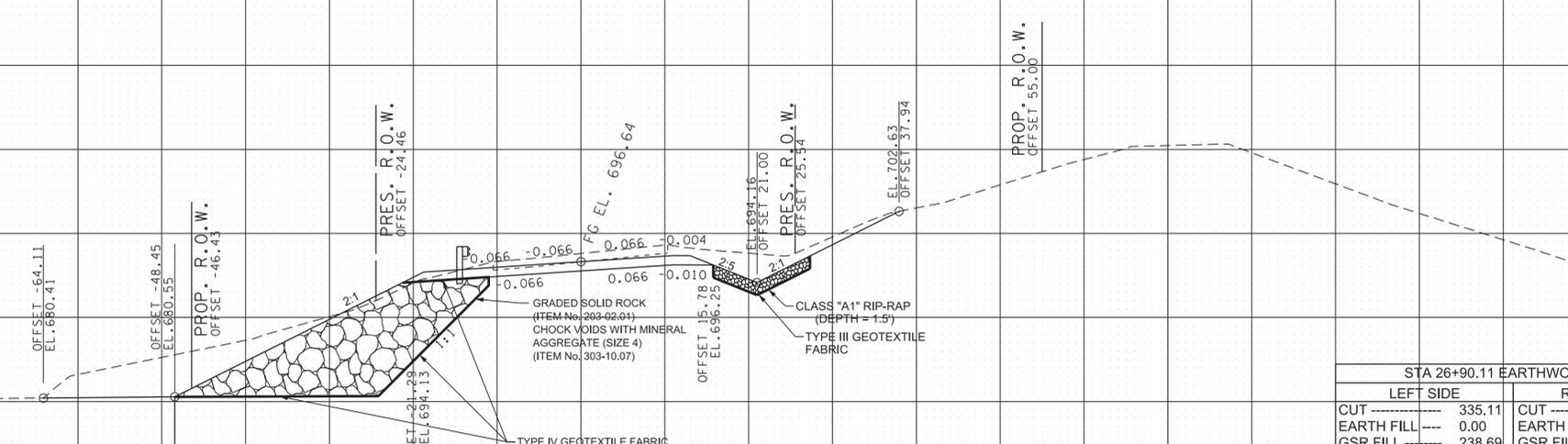
700

690

690

680

680



26+90.11

OLD LOWER RIVER RD

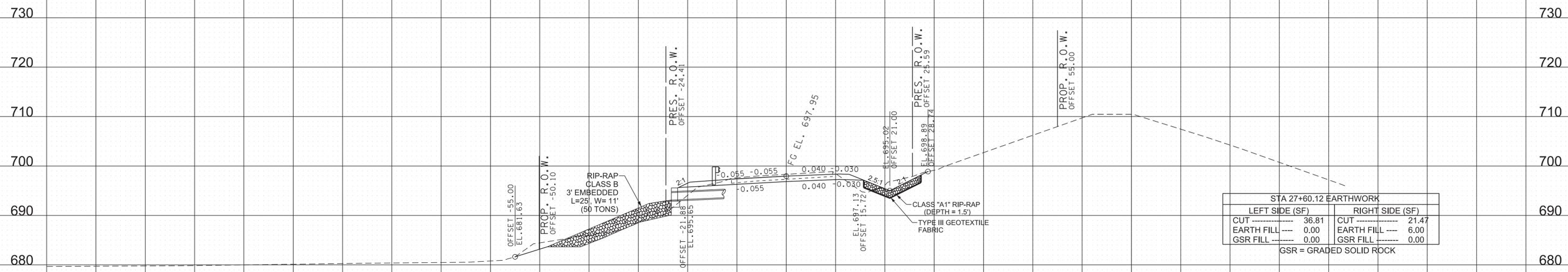
BEGIN STA. 26+90.11
END STA. 27+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	32
PS&E	2025	BRZ-1185(4)	34

REV. 11/09/22:
REVISED CROSS SECTIONS &
ADDED EARTHWORK TABLES.

REV. 01/20/23:
UPDATED RIGHT DITCH.

REV. 05/02/23:
UPDATED RIGHT DITCH WITH CLASS
A1 RIP-RAP AND TYPE III GEOTEXTILE
FABRIC.
UPDATED RIGHT SIDE CUT AREA IN
EARTHWORK TABLE.
UPDATED PROPOSED R.O.W. ON LEFT
SIDE.

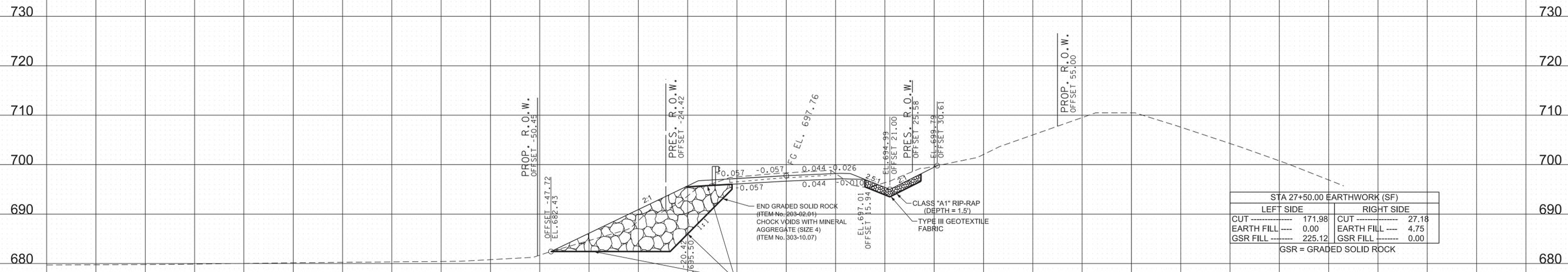


STA 27+60.12 EARTHWORK

	LEFT SIDE (SF)	RIGHT SIDE (SF)
CUT	36.81	21.47
EARTH FILL	0.00	6.00
GSR FILL	0.00	0.00

GSR = GRADED SOLID ROCK

27+60.12



STA 27+50.00 EARTHWORK (SF)

	LEFT SIDE	RIGHT SIDE
CUT	171.98	27.18
EARTH FILL	0.00	4.75
GSR FILL	225.12	0.00

GSR = GRADED SOLID ROCK

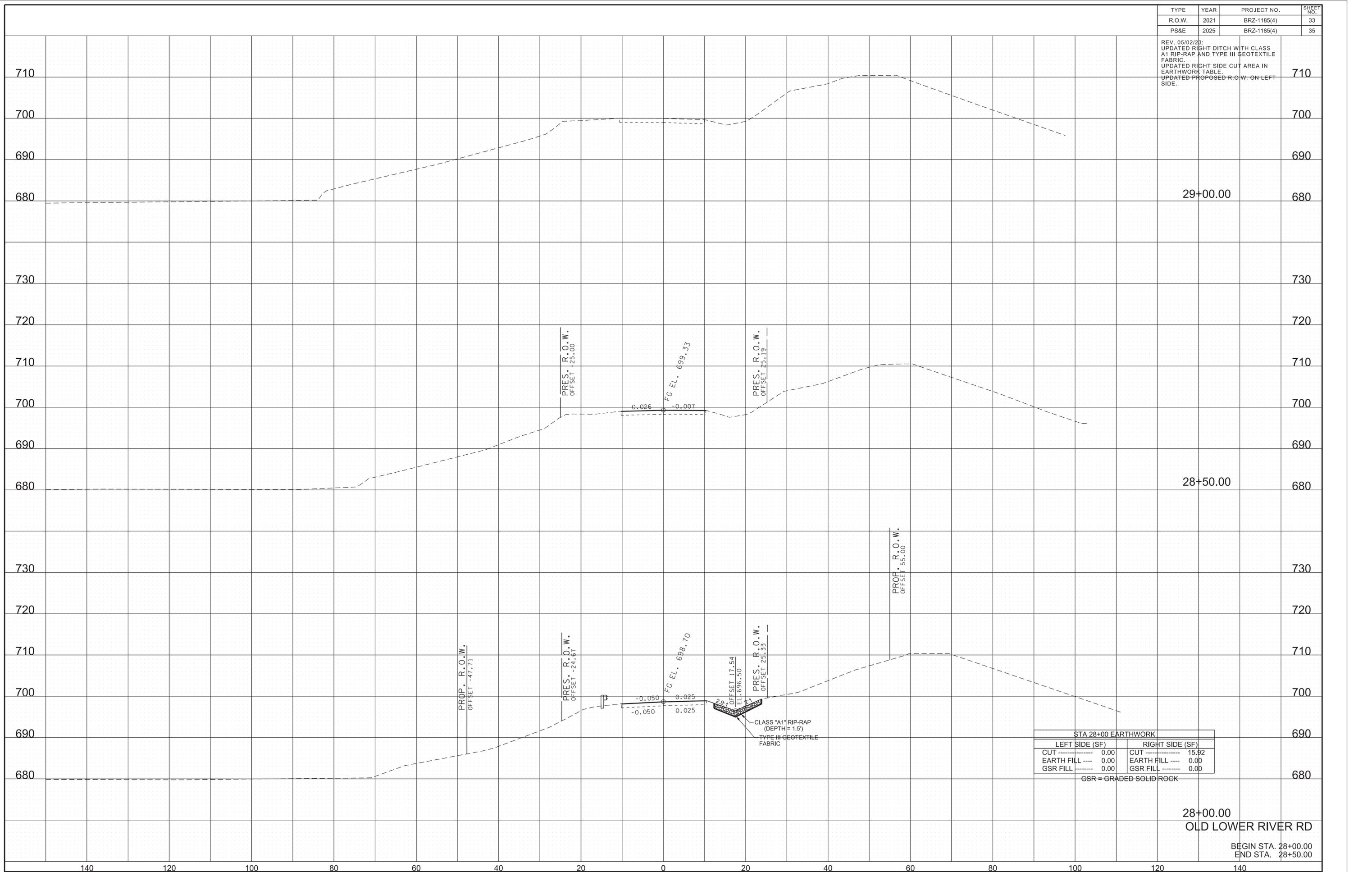
27+50.00

OLD LOWER RIVER RD

BEGIN STA. 27+50.00
END STA. 27+60.12

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	BRZ-1185(4)	33
PS&E	2025	BRZ-1185(4)	35

REV. 05/02/23:
 UPDATED RIGHT DITCH WITH CLASS
 A1 RIP-RAP AND TYPE III GEOTEXTILE
 FABRIC.
 UPDATED RIGHT SIDE CUT AREA IN
 EARTHWORK TABLE.
 UPDATED PROPOSED R.O.W. ON LEFT
 SIDE.



29+00.00

28+50.00

PROP. R.O.W.
 OFFSET -47.71

PRES. R.O.W.
 OFFSET -24.67

FG EL. 698.70

PRES. R.O.W.
 OFFSET 25.33

PROP. R.O.W.
 OFFSET 55.00

0.025
 -0.050
 0.025
 29.1
 2.1

CLASS "A1" RIP-RAP
 (DEPTH = 1.5')
 TYPE III GEOTEXTILE
 FABRIC

STA 28+00 EARTHWORK			
LEFT SIDE (SF)		RIGHT SIDE (SF)	
CUT	0.00	CUT	15.92
EARTH FILL	0.00	EARTH FILL	0.00
GSR FILL	0.00	GSR FILL	0.00

GSR = GRADED SOLID ROCK

28+00.00
 OLD LOWER RIVER RD

BEGIN STA. 28+00.00
 END STA. 28+50.00

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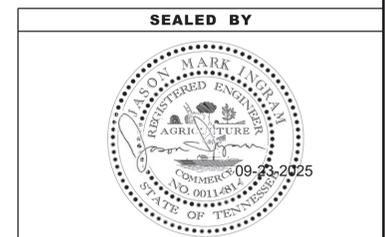
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TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	T1

TABULATED TRAFFIC CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
712-01	TRAFFIC CONTROL	LS	1
712-05.01	WARNING LIGHTS (TYPE A)	EA	6
712-06	TRAFFIC CONTROL SIGN TABULATION	SF	245
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	60
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EA	2

TRAFFIC CONTROL SIGN TABULATION									
M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES		S.F.	NO. REQUIRED PHASE I	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
		L	X							W
M4-8A	END DETOUR	24"	X	18"	3.00	2	2	6.00	
M4-9	DETOUR WITH UP ARROW	30"	X	30"	6.25	7	7	43.75	(MODIFIED)
M4-9L	DETOUR WITH LEFT ARROW	30"	X	24"	5.00	3	3	15.00	
M4-9R	DETOUR WITH RIGHT ARROW	30"	X	24"	5.00	3	3	15.00	
M4-10L	DETOUR LETTERING ON LEFT ARROW	48"	X	18"	6.00	1	1	6.00	(Placed on Barricade)
R11-2	ROAD CLOSED	48"	X	30"	10.00	2	2	20.00	(Placed on Barricade)
R11-3A	ROAD CLOSED 1/2 MILE AHEAD - LOCAL TRAFFIC ONLY	60"	X	30"	12.50	2	2	25.00	
W16-8aP	OLD LOWER RIVER ROAD	24"	X	15"	2.50	17	17	42.50	
W20-2	DETOUR AHEAD	36"	X	36"	9.00	2	2	18.00	
W20-2	ROAD CLOSED AHEAD	36"	X	36"	9.00	2	2	18.00	
W20-3	ROAD CLOSED 1000 FEET	36"	X	36"	9.00	2	2	18.00	
W20-3	ROAD CLOSED 500 FEET	36"	X	36"	9.00	2	2	18.00	
TOTAL						245	S.F.		

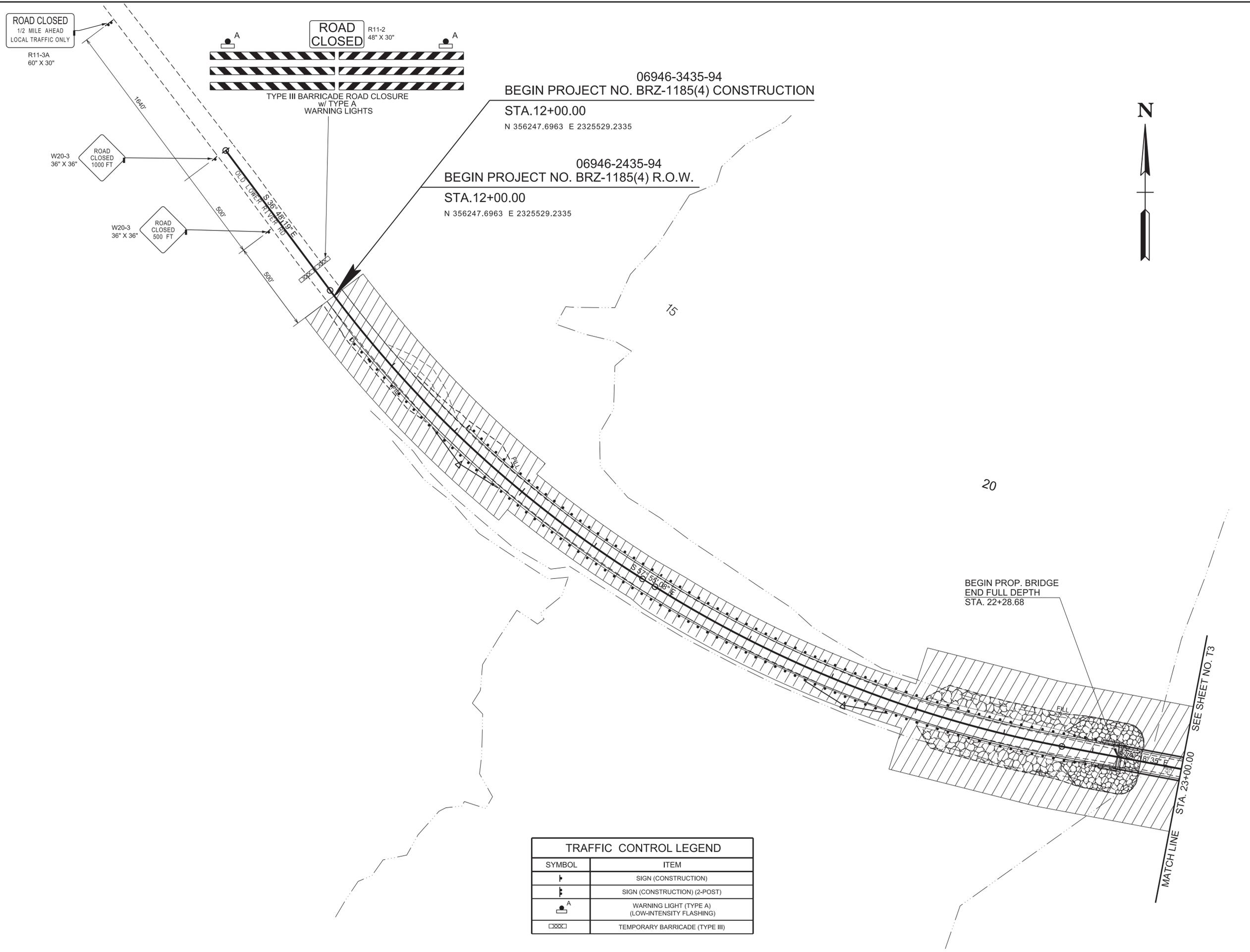
TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
	CHANGEABLE MESSAGE SIGN
	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	WORK ZONE
	TEMPORARY BARRICADE (TYPE III)



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL
PHASING NOTES,
LEGEND AND
TABULATION**

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	T2



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	TEMPORARY BARRICADE (TYPE III)

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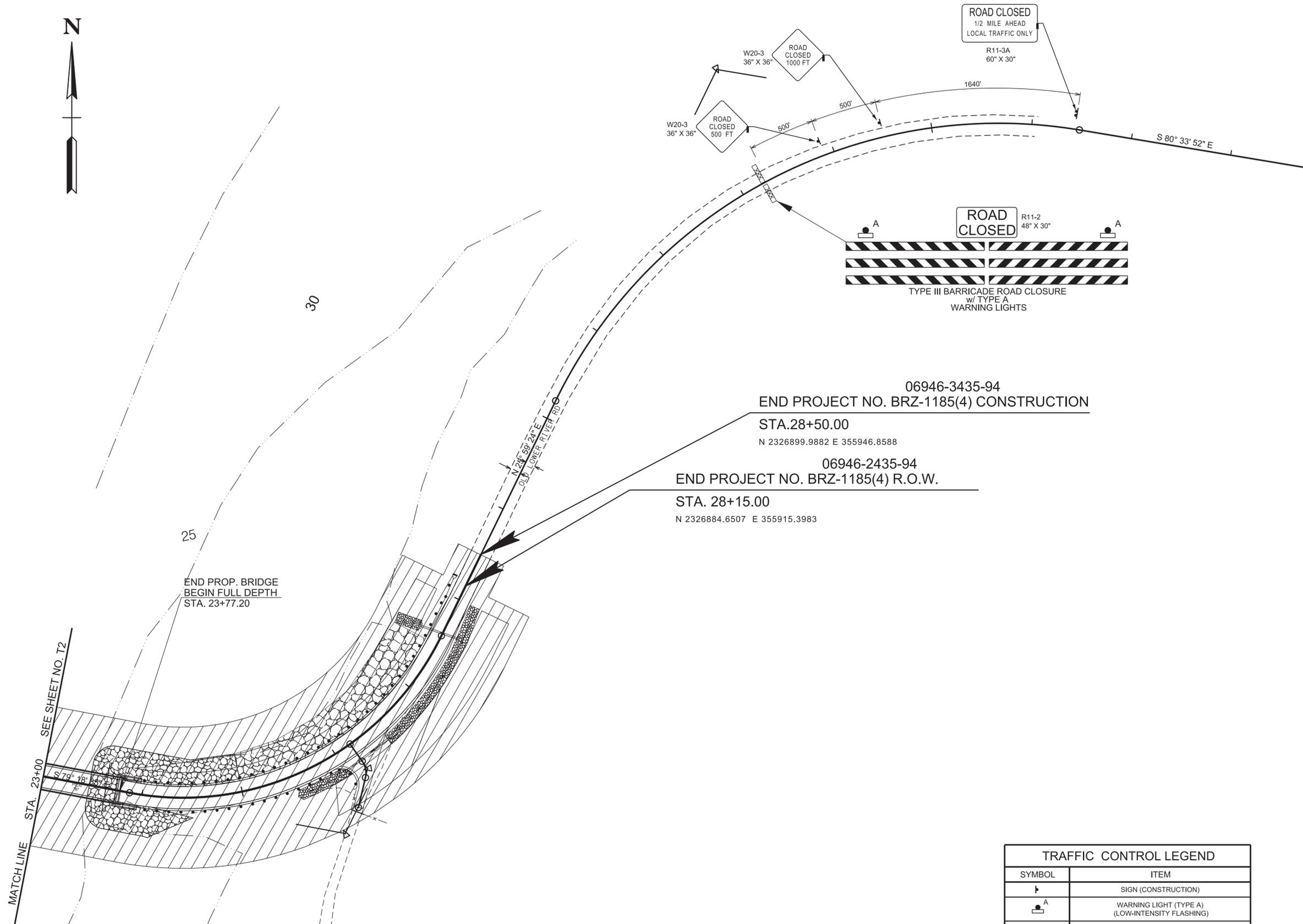
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLANS
STA 12+00 TO STA 23+00
SCALE: 1"=50'

22-SEP-2025 09:39 \\tdot02nas002.tdot.state.tn.us\02Shared\Design County Folders\Bradley\124677.00 Old Lower River Rd over S Mouse Ck\T2.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	T3

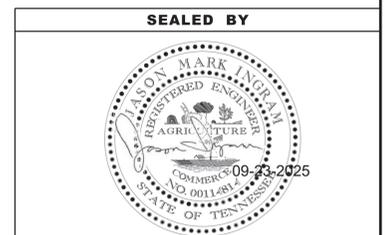


06946-3435-94
 END PROJECT NO. BRZ-1185(4) CONSTRUCTION
 STA.28+50.00
 N 2326899.9882 E 355946.8588

06946-2435-94
 END PROJECT NO. BRZ-1185(4) R.O.W.
 STA. 28+15.00
 N 2326884.6507 E 355915.3983

END PROP. BRIDGE
 BEGIN FULL DEPTH
 STA. 23+77.20

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	TEMPORARY BARRICADE (TYPE III)



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

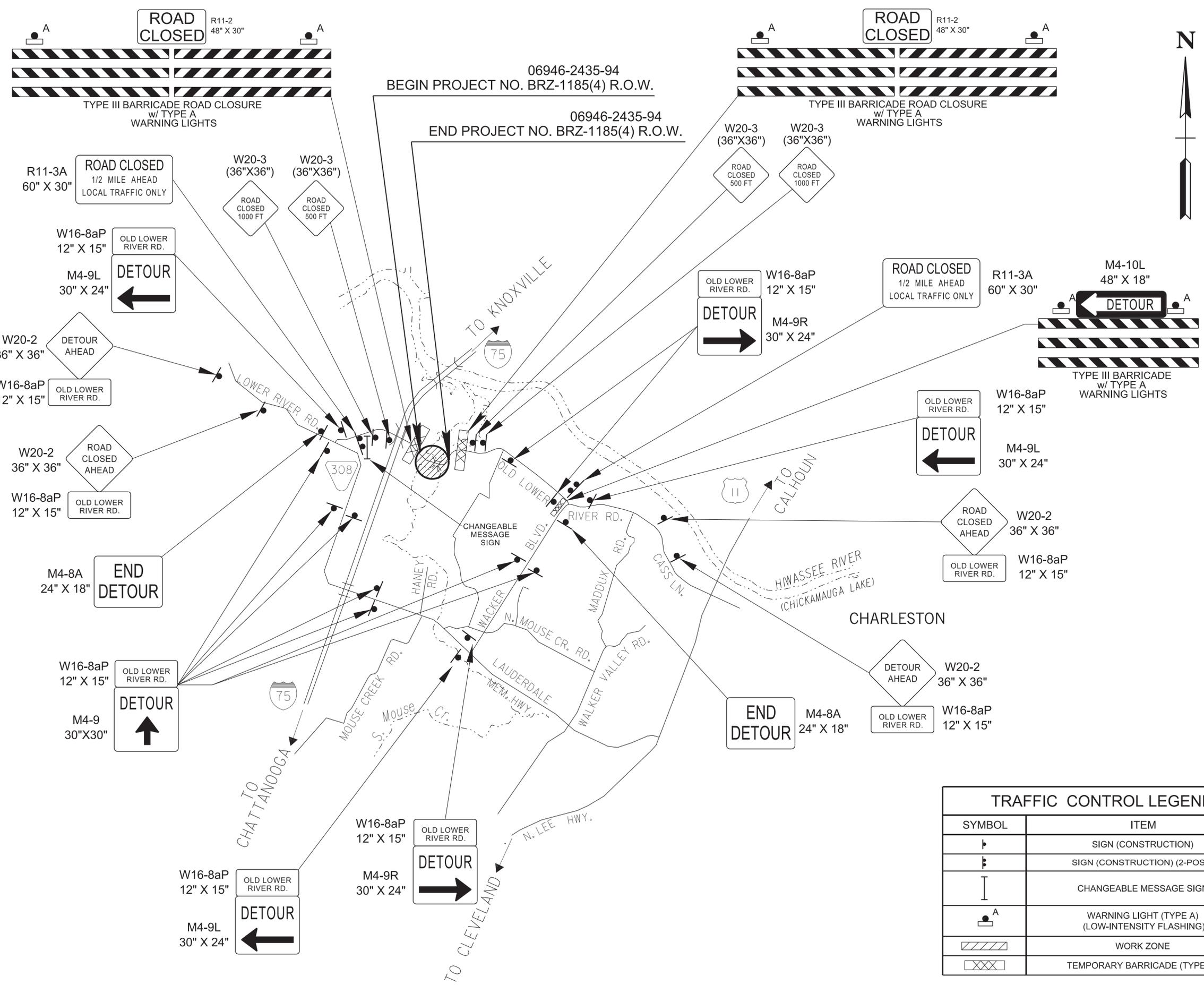
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
 STA 23+00 TO STA 28+50
 SCALE: 1"=50'

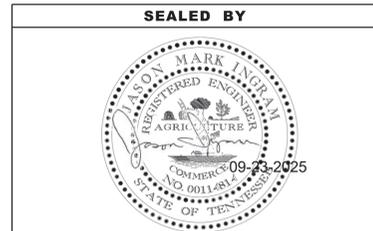
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
PS&E	2025	BRZ-1185(4)	T4



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TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
	CHANGEABLE MESSAGE SIGN
	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	WORK ZONE
	TEMPORARY BARRICADE (TYPE III)

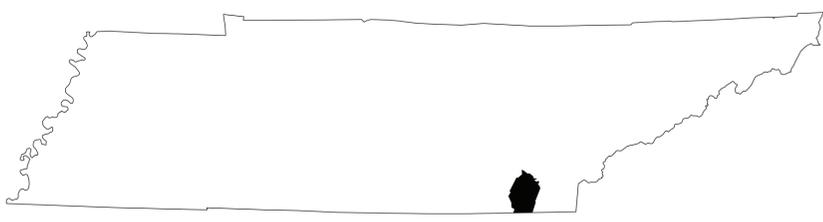


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETOUR MAP

SCALE: 1"=2250'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	B-1



BRADLEY COUNTY

X081

OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
STA. 23+02.94

CONTINUOUS PRECAST
PRESTRESSED CONCRETE
72" BULB-TEE BEAM
WITH COMPOSITE
CONCRETE DECK SLAB

1 SPAN BRIDGE
TOTAL LENGTH = 148'-6 1/4"

26'-0" ROADWAY WITH
STD-7-1
BRIDGERAILS

90°00'00" SKEW

LAYOUT DRAWING NO.
U-94-370

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL
202-04.01	REMOVAL OF STRUCTURES (BRIDGE NO. 06-01185-13.06)	LS	1
204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	261
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	52
604-02.03	EPOXY COATED REINFORCING STEEL	LB.	24,437
604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	80
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	10,738
604-03.09	CLASS D CONCRETE (BRIDGE DECK)	C.Y.	134
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	736
604-04.41	THREE STAR STATE EMBLEM	EACH	4
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	396
606-03.03	STEEL PILES (12 INCH)	L.F.	364
606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EACH	18
615-01.12	PRESTRESSED CONCRETE BULB-TEE BEAM (6" WEB) (BT-72)	L.F.	583
620-06	CONCRETE RAILING	L.F.	376
710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	122
710-09.02	6" PIPE UNDERDRAIN	L.F.	41

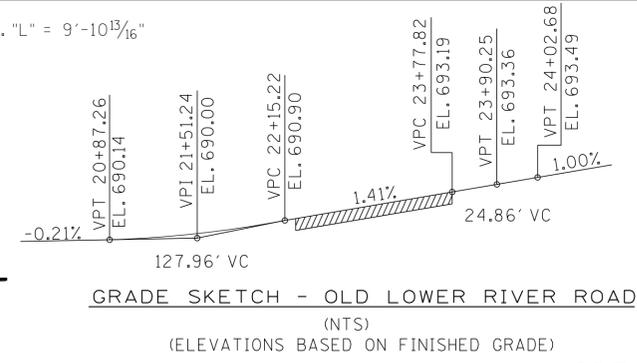
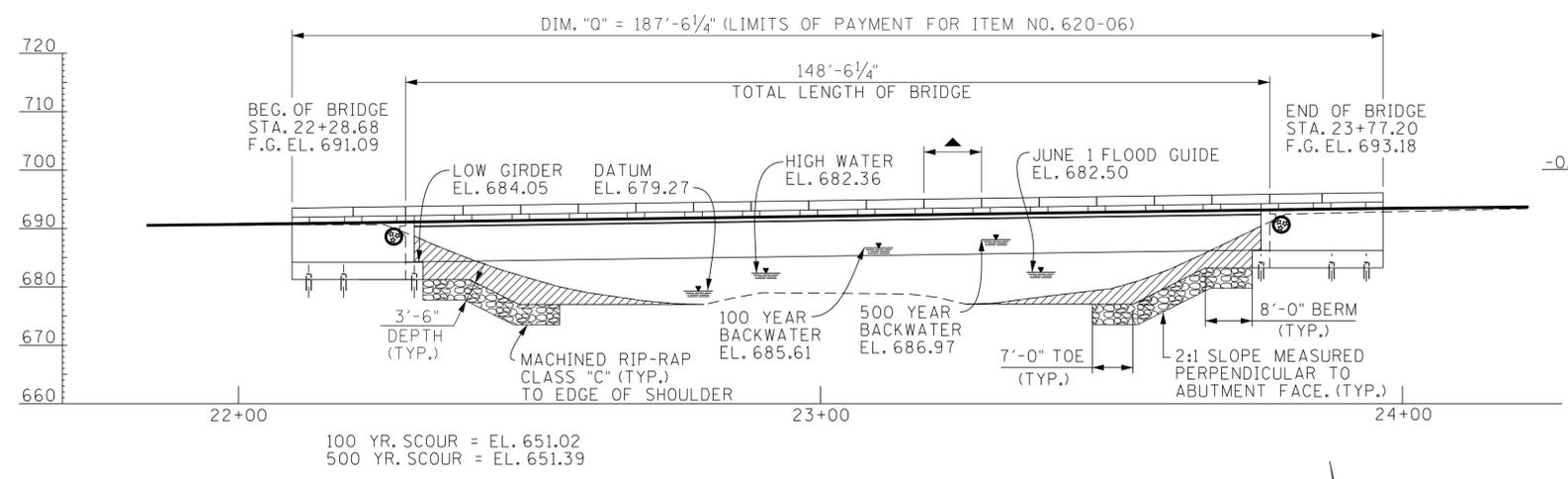
<u>LIST OF DRAWINGS</u>	<u>DWG. NO.</u>	<u>LAST REV. DATE</u>
LAYOUT OF BRIDGE	U-94-370	.....
GENERAL NOTES & ESTIMATED QUANTITIES	U-94-371	.....
FOUNDATION DATA	U-94-372	.....
SUPERSTRUCTURE	U-94-373	.....
SUPERSTRUCTURE DETAILS	U-94-374	.....
PRESTRESSED BULB-TEE BEAM DETAILS	U-94-375	.....
ABUTMENT NO. 1	U-94-376	.....
ABUTMENT NO. 1 DETAILS	U-94-377	.....
ABUTMENT NO. 2	U-94-378	.....
ABUTMENT NO. 2 DETAILS	U-94-379	.....
FINAL FOUNDATION DATA	U-94-380	.....
BILL OF STEEL	U-94-381	.....

<u>LIST OF STD. DRAWINGS</u>	<u>DWG. NO.</u>	<u>LAST REV. DATE</u>
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-1	4-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA	STD-4-2	4-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-3	3-02-02
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS	STD-4-4	6-10-96
STANDARD PILE DETAILS	STD-5-1	.....
STD. CONCRETE BRIDGE RAIL	STD-7-1	4-15-20
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
REINF. BAR SUPPORT DETAILS FOR CONC. SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT & DRAINAGE DETAILS	STD-10-1	6-05-23
STD. DETAILS FOR PRESTRESSED BULB-TEE BEAMS	STD-14-1	6-05-23

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

ESTIMATED QUANTITIES AND LIST OF DRAWINGS

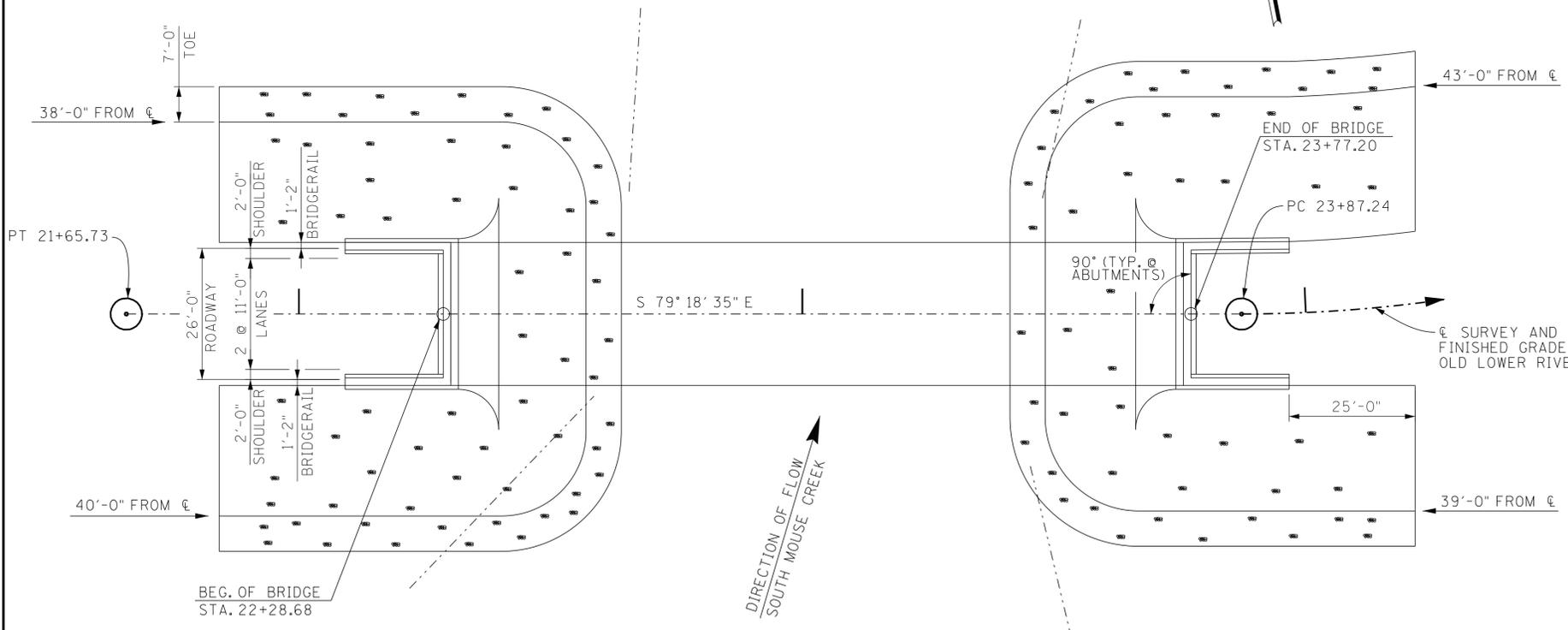
PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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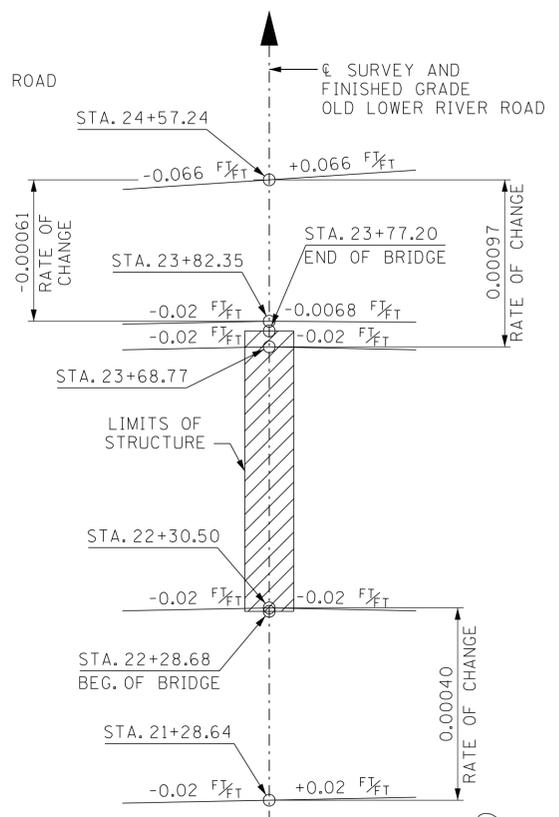
ELEVATION SCALE: 1" = 16'-0"

LIST OF DRAWINGS	DWG. NO.	LAST REV. DATE
LAYOUT OF BRIDGE	U-94-370	
GENERAL NOTES & ESTIMATED QUANTITIES	U-94-371	
FOUNDATION DATA	U-94-372	
SUPERSTRUCTURE	U-94-373	
SUPERSTRUCTURE DETAILS	U-94-374	
PRESTRESSED BULB-TEE BEAM DETAILS	U-94-375	
ABUTMENT NO. 1	U-94-376	
ABUTMENT NO. 1 DETAILS	U-94-377	
ABUTMENT NO. 2	U-94-378	
ABUTMENT NO. 2 DETAILS	U-94-379	
FINAL FOUNDATION DATA	U-94-380	
BILL OF STEEL	U-94-381	

LIST OF STD. DRAWINGS	DWG. NO.	LAST REV. DATE
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-1	04-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA	STD-4-2	04-08-05
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-3	03-02-02
STD. PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS	STD-4-4	06-10-96
STANDARD PILE DETAILS	STD-5-1	
STD. CONCRETE BRIDGE RAIL	STD-7-1	04-15-20
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
REINF. BAR SUPPORT DETAILS FOR CONC. SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT & DRAINAGE DETAILS	STD-10-1	06-05-23
STD. DETAILS FOR PRESTRESSED BULB-TEE BEAMS	STD-14-1	06-05-23



PLAN SCALE: 1" = 16'-0"



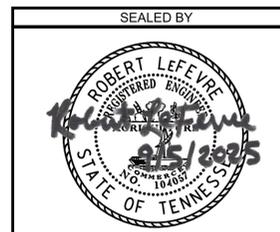
TRANSITION SKETCH (OLD LOWER RIVER)

HYDRAULIC DATA

DRAINAGE AREA = 38.60 MI.²
 DESIGN DISCHARGE (100 YR.) = 6150 CFS
 WATER AREA PROVIDED BELOW EL. 685.11 = 551.78 FT²
 100 YR. VELOCITY = 11.15 FPS
 100 YR. BRIDGE BACKWATER = 3.11 FT. @ EL. 685.61
 ROADWAY OVERTOPPING EL. = 690.11 FT.
 100 YR. DISCHARGE 6150 CFS @ EL. 685.61
 500 YR. DISCHARGE 8090 CFS @ EL. 686.97

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

PIN NO.:	124677.00	DATE:	10/18/22
DESIGN BY:	LBN	DATE:	01/2023
DRAWN BY:	B. ERVIN	DATE:	01/2023
SUPERVISED BY:	STEELE/LEFEVRE	DATE:	09/2023
CHECKED BY:	J. FALCE	DATE:	



2041 ADT = 1010
 ROADWAY WIDTH = 26'-0" STD-7-1 BRIDGERAIL
 DESIGN SPEED = 45 MPH
 STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 LAYOUT OF BRIDGE
 OLD LOWER RIVER ROAD
 OVER
 SOUTH MOUSE CREEK
 STATION 23+02.94
 LOG MILE 13.09
 BRADLEY COUNTY
 2025

Del A. Kravayev
 ENGINEER OF STRUCTURES

06011850001-GN.SHT

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION).

DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.

- LOADING:**
- A. HL-93 LIVE LOADING
 - B. SEISMIC DESIGN CATEGORY "A" WITH $A_S = 0.176$, $S_{D5} = 0.321$, $S_{D1} = 0.119$, (1000 YEAR RETURN PERIOD).
 - C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE: TO BE CLASS A (CAST-IN-PLACE) F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.

BRIDGE DECKS: CLASS D CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS MAY BE EITHER REMAIN-IN-PLACE STEEL OR PRECAST, PRESTRESSED CONCRETE PANELS. IN EITHER CASE, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWINGS STD-4-1 THRU 4, STD-14-1, AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

END-BEARING STEEL PILES: TO BE HP 12x53 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 135 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

PILE TIPS: PILES SHALL BE EQUIPPED WITH CAST STEEL POINTS. ALSO, SEE STANDARD DRAWING STD-5-1 FOR ADDITIONAL NOTES.

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

SLAB OVERHANGS SUPPORTED BY BULB-TEE BEAMS: IT IS RECOMMENDED THAT SPACING OF OVERHANG BRACKETS FOR BULB-TEE BEAMS NOT EXCEED 2'-0" CENTER TO CENTER.

UTILITIES: IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.

SHOP DRAWINGS: SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

BRIDGERAIL SYSTEM: BUILD BRIDGERAILS ACCORDING TO STANDARD DRAWING STD-7-1. THE RAILS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.

RIP-RAP: MACHINED RIP-RAP SHALL BE CLASS C IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.09.

VALUE ENGINEERING ALTERNATE BRIDGE DESIGN CRITERIA: ALTERNATE BRIDGE DESIGN PROPOSALS MAY NOT DIMINISH THE FUNCTIONAL OR STRUCTURAL EQUIVALENCY OF THE BRIDGE AND MUST MEET OR EXCEED THE CAPACITIES OF THE CONTRACT PLANS STRUCTURE AT ALL LIMIT STATES IN AASHTO TABLE 3.4.1-1. ADDITIONALLY, THE WATERWAY OPENING AND FLOOD CLEARANCES MAY NOT BE REDUCED. FOR GRADE SEPARATIONS, THE HORIZONTAL CLEARANCES MAY NOT BE REDUCED, NOR MAY THE VERTICAL CLEARANCES BE LESS THAN THE MINIMUM ACCEPTABLE FOR THE TYPE FACILITY CROSSED.

FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.

TEXTURE FINISH: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, AND EXTERIOR PORTIONS OF THE ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, AMS-STD-595A, COLOR NO. 36440).

CONST. NO.: 06946-3435-94

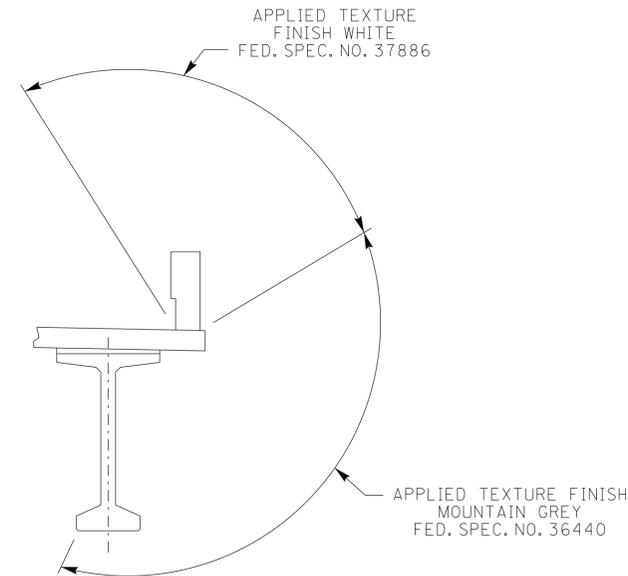
PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	ABUT. NO. 2
① 202-04.01	REMOVAL OF STRUCTURES (BRIDGE NO. 06-01185-13.06)	LS	1			
② 204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	261		128	133
⑦ 303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	52		26	26
604-02.03	EPOXY COATED REINFORCING STEEL	LB.	24,437	21,529	1,454	1,454
604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	80		34	46
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	10,738		5,276	5,462
604-03.09	CLASS D CONCRETE (BRIDGE DECK)	C.Y.	134	120	12	2
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	736	611	62	63
604-04.41	THREE STAR STATE EMBLEM	EACH	4		2	2
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	396	396		
606-03.03	STEEL PILES (12 INCH)	L.F.	364		214	150
⑧ 606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EACH	18			
⑤ ④ 615-01.12	PRESTRESSED CONCRETE BULB-TEE BEAM (6" WEB) (BT-72)	L.F.	583			
620-06	CONCRETE RAILING	L.F.	376			
⑥ 710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	122		61	61
710-09.02	6" PIPE UNDERDRAIN	L.F.	41		19	28

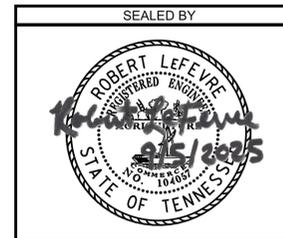
- ① **NOTE:** LUMP SUM EXISTING BRIDGE AND APPROACHES TO BE REMOVED TO EXISTING GROUND BETWEEN STATIONS 22+00.00 AND 24+00.00. EXISTING BRIDGE DESCRIPTION: 3 SPANS, 133'-6" LENGTH, 21'-6" OUT-TO-OUT STEEL BRIDGE WITH CONCRETE SUBSTRUCTURES, BRIDGE NO. 06011850001, EXISTING LAYOUT DWG. NO. 58H102).
- ② **NOTE:** EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS.
- ③ **NOTE:** THE COST OF BITUMINOUS-FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- ④ **NOTE:** COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.

- ⑤ **NOTE:** INTERMEDIATE DIAPHRAGMS SHALL BE PAID FOR IN ACCORDANCE WITH STANDARD DRAWING STD-14-1.
- ⑥ **NOTE:** COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
- ⑦ **NOTE:** GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.
- ⑧ **NOTE:** THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.



APPLIED TEXTURE FINISH SKETCH

TEXTURE FINISH: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, AND EXTERIOR PORTIONS OF THE ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, AMS-STD-595A, COLOR NO. 36440).

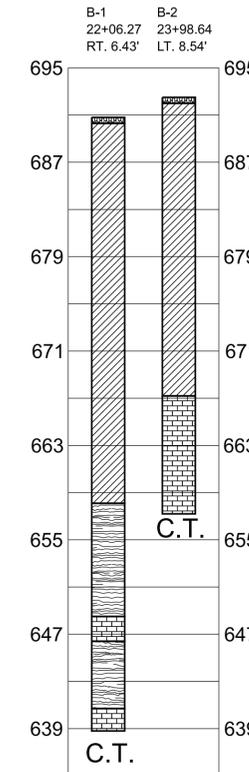
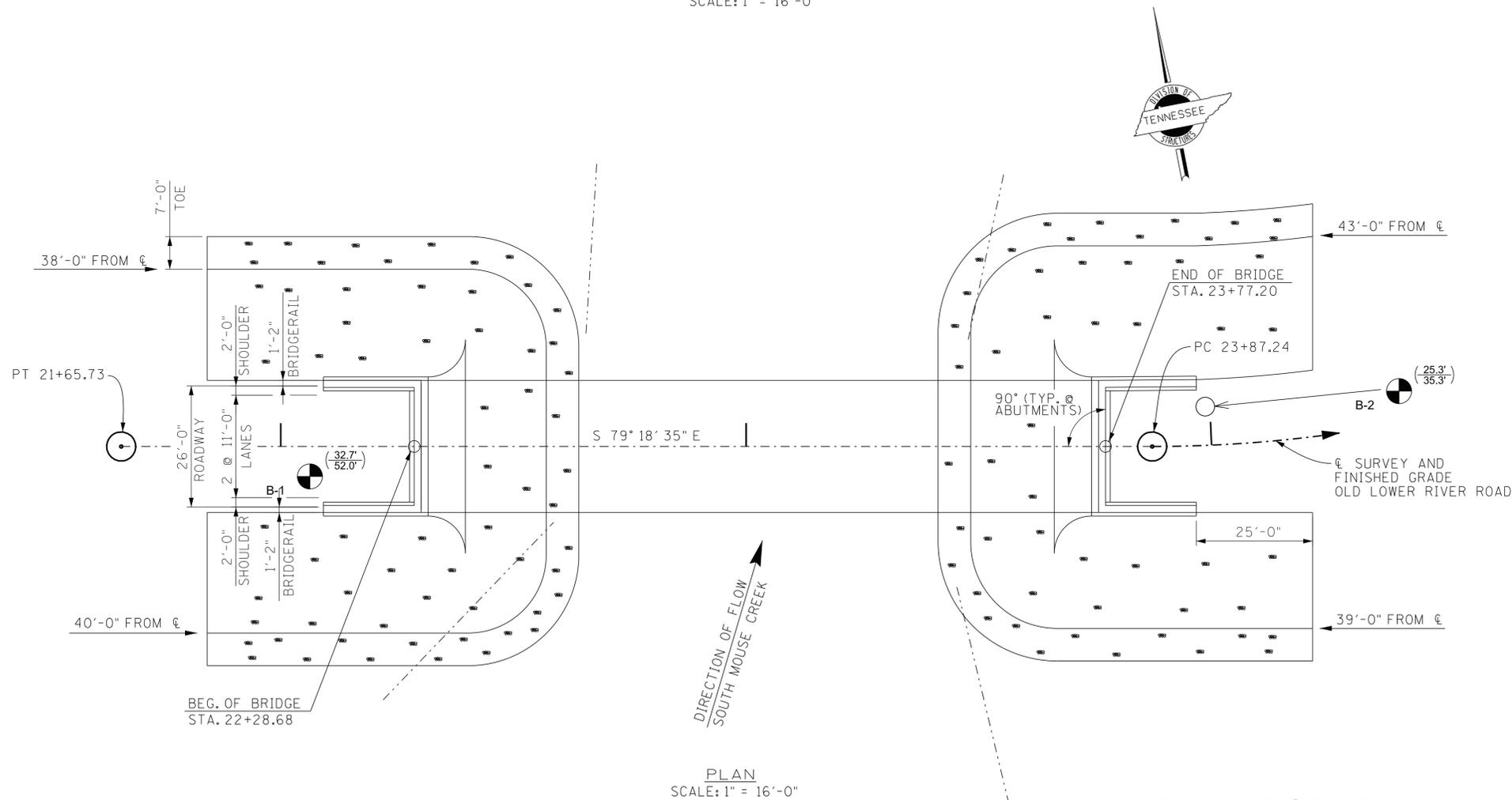
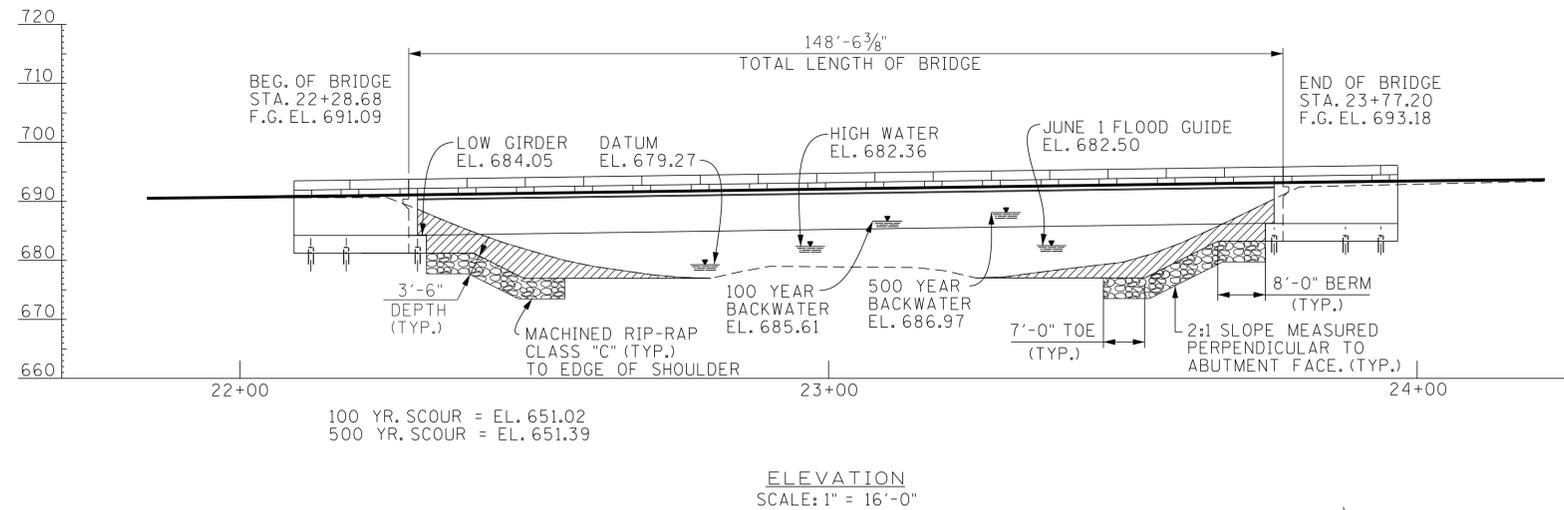


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
GENERAL NOTES AND ESTIMATED QUANTITIES
OVER
OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
STATION 23+02.94
LOG MILE 13.09
BRADLEY COUNTY
2025

Del A. Krzyzewicz
ENGINEER OF STRUCTURES

PIN NO.: 124677.00
DESIGN BY: LBN DATE: 10/18/22
DRAWN BY: CHRIS STAPLER DATE: 08-22
SUPERVISED BY: STEELE/LEFEVRE DATE: 08-22
CHECKED BY: J. FALCE DATE: 09/2023

PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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BORING NO.	STATION	OFFSET	GROUND ELEVATION	ROCK ELEVATION	TOTAL DEPTH
B-1	22+06.27	RT. 6.43'	690.78	658.08	52.0'
B-2	23+98.64	LT. 8.54'	692.47	667.17	35.3'

NOTE: BORING DEPICTIONS SHOWN ON FOUNDATION DATA SHEET INDICATE GENERAL SOIL AND ROCK TYPES AT THE SPECIFIC BORING LOCATIONS.

PROFILE LEGEND

- ASPHALT
- CLAY
- LIMESTONE
- SHALE
- C.T. = CORING TERMINATED

BENCHMARKS:

- CP-S01
OLD LOWER RIVER ROAD
STA. 18+19.03, -15.34 (LT)
N 355874.44
E 2326012.22
ELEV. 688.96
- CP-S02
OLD LOWER RIVER ROAD
STA. 25+44.21, -14.05 (LT)
N 355737.21
E 2326700.54
ELEV. 692.78

NOTES:

- REQUIRED:**
- 1) SUFFICIENT GROUND, ROCK AND CORING INFORMATION FOR BRIDGE FOUNDATION.
 - 2) APPROXIMATE EXISTING GROUND AND ROCK LINE.

NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.

PLAN LEGEND

- B-1 (24.5') (70.3')
- BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)

NOTES: DESIGN SPECIFICATIONS: AASHTO LRFD 9TH EDITION 2020 AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIMS, SEISMIC CATEGORY "A" WITH $A_s=0.176$, $SDS=0.321$, $SD1=0.119$ (1000 YEAR RETURN PERIOD).

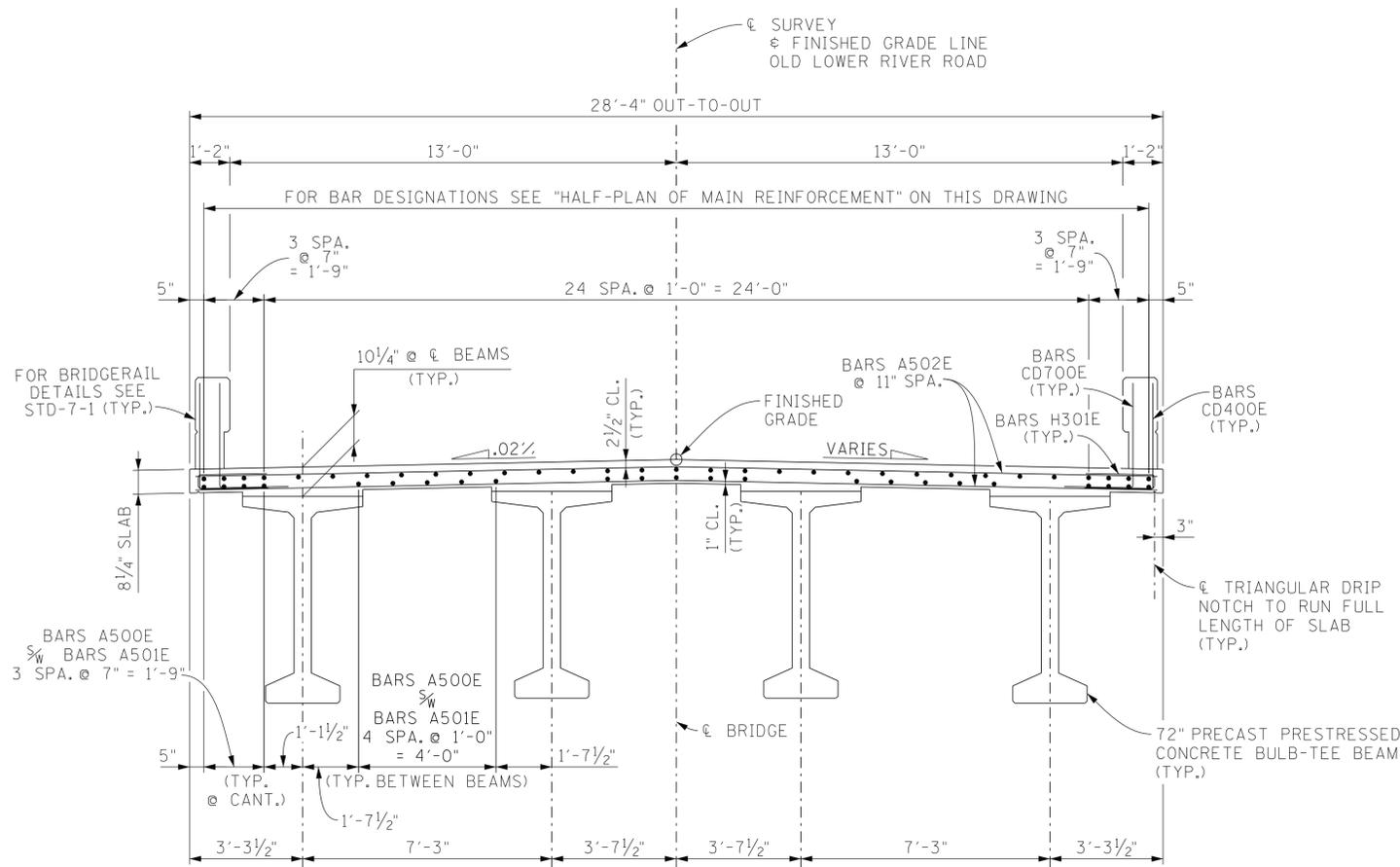
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DESIGN BY:	LBN
DATE:	10-22
DRAWN BY:	C. STAPLER
DATE:	12-22
SUPERVISED BY:	RLL
DATE:	10-22
CHECKED BY:	J. FALCE
DATE:	09/2023

Paul A. Krzywicki
ENGINEER OF STRUCTURES

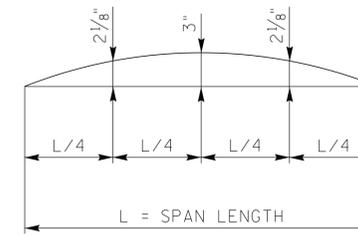
2041 ADT = 1010
ROADWAY WIDTH = 26'-0"
STD-7-1 BRIDGERAIL
DESIGN SPEED = 45 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
FOUNDATION DATA
OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
BRIDGE I.D. NO. 06011850001
LOG MILE 13.09
BRADLEY COUNTY
2025

PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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-	-	-	-
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TYPICAL CROSS SECTION
(LOOKING FORWARD ON SURVEY)



DEAD LOAD CORRECTION CURVE

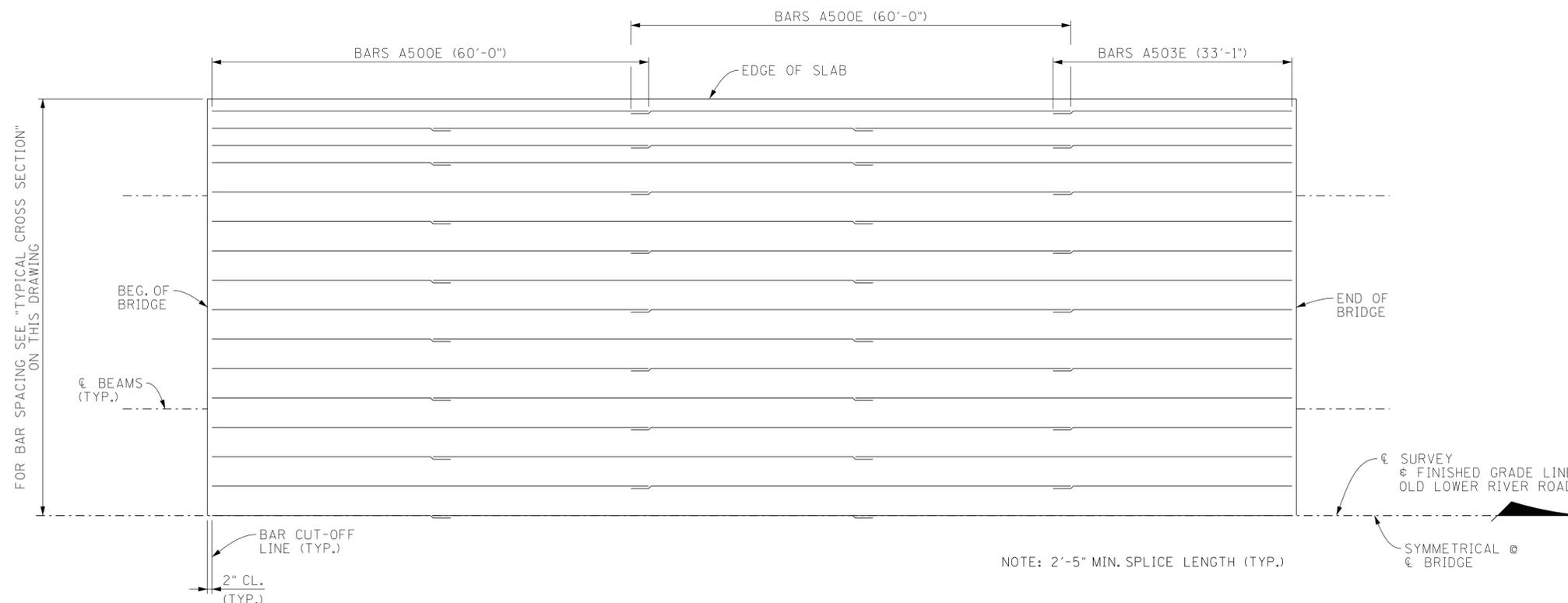
DEAD LOAD CORRECTION CURVE: THIS CURVE IS FOR DEAD LOAD SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER SLAB IS IN PLACE AND SHOULD BE CORRECTED TO COMPENSATE FOR THE EFFECTS DUE TO VERTICAL CURVE.

NOTE: NO PORTION OF THE RAILS SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

NOTE: IF PRESTRESSED DECK PANELS ARE USED AND THE BEAMS ARE PROFILED AFTER THE PANELS ARE IN PLACE, REDUCE THE DEAD LOAD CORRECTION VALUES SHOWN BY 25%.

NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR RAIL. THE RAIL SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. ALSO SEE STD. DWG. NO. STD-7-1.

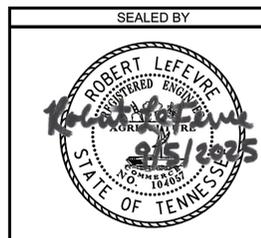
NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE INSTALLED PRIOR TO PLACING ANY LOADS ON THE BEAMS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS AND PERMANENT INTERMEDIATE DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.



HALF-PLAN OF MAIN REINFORCEMENT

ESTIMATED QUANTITIES

CLASS 'D' CONCRETE (BRIDGE DECK) C.Y.	EPOXY COATED REINFORCING STEEL LBS.
120	21,529

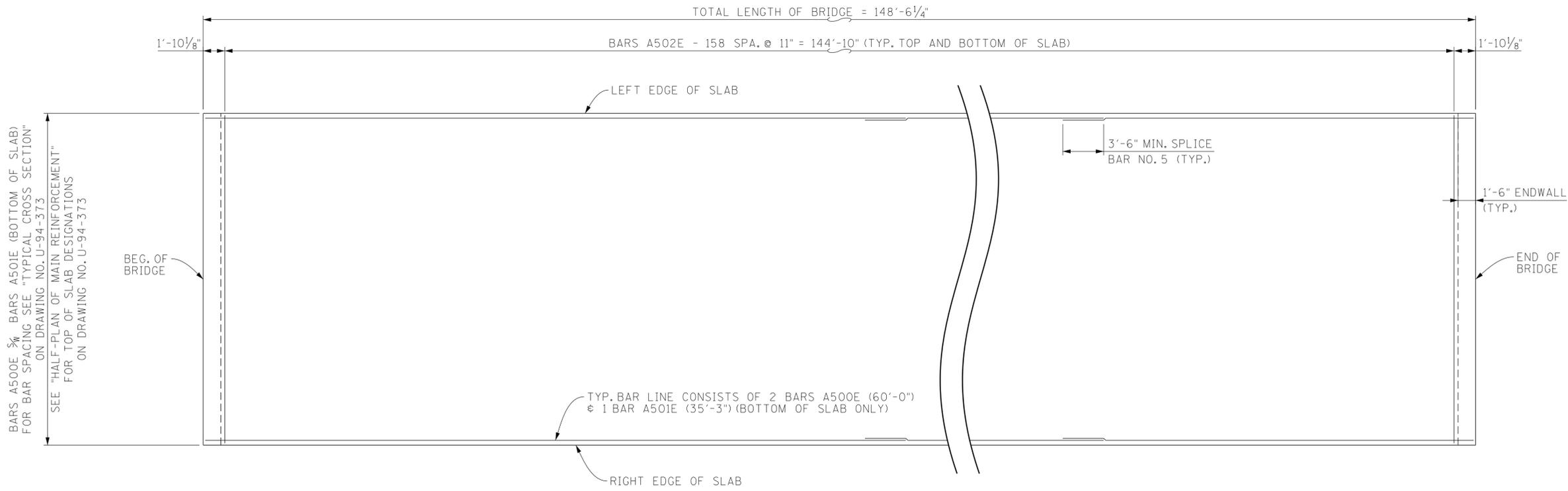


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
STATION 23+02.94
LOG MILE 13.09
BRADLEY COUNTY
2025

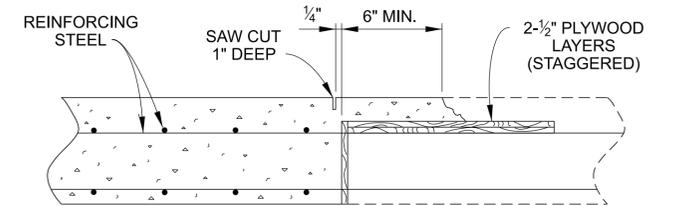
Del A. Krzyzewicz
ENGINEER OF STRUCTURES

PIN NO.: 124677.00
DESIGN BY: LBN DATE: 10/18/22
DRAWN BY: T. WISEMAN DATE: 12/22
SUPERVISED BY: STEELE/LEFEVRE DATE: 12/22
CHECKED BY: J. FALCE DATE: 09/2023

PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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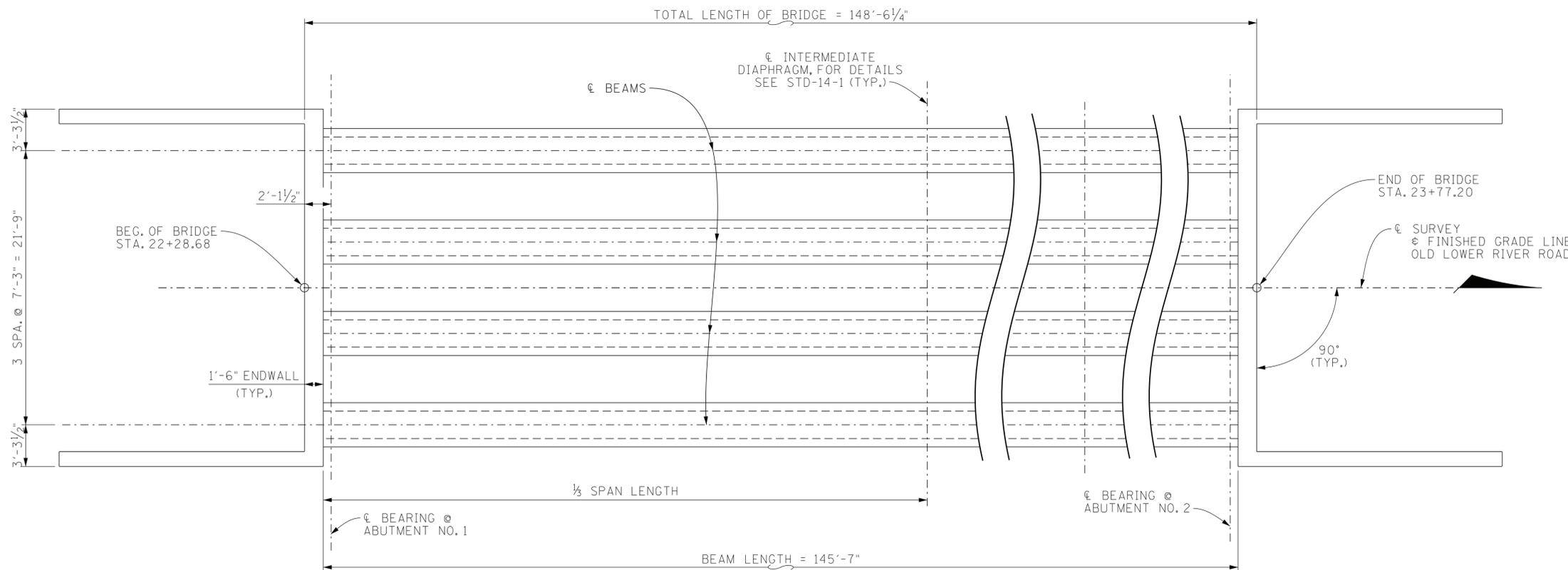


SLAB PLAN



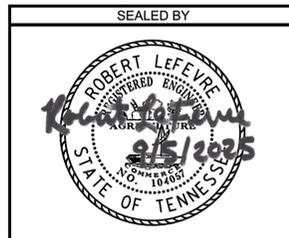
SLAB CONSTRUCTION JOINT DETAIL (N.T.S.)

DECK CONCRETE POURING SEQUENCE: ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ON THIS SHEET.



FRAMING PLAN

PIN NO.:	124677.00
DESIGN BY:	LBN
DATE:	10/18/22
DRAWN BY:	T. WISEMAN
DATE:	12/22
SUPERVISED BY:	STEELE/LEFEVRE
DATE:	12/22
CHECKED BY:	J. FALCE
DATE:	09/2023

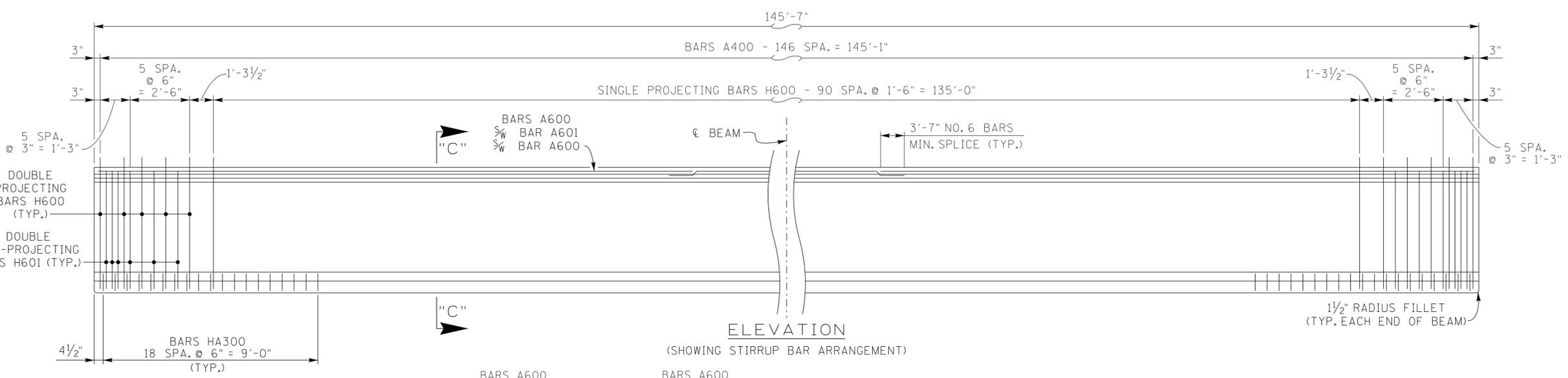
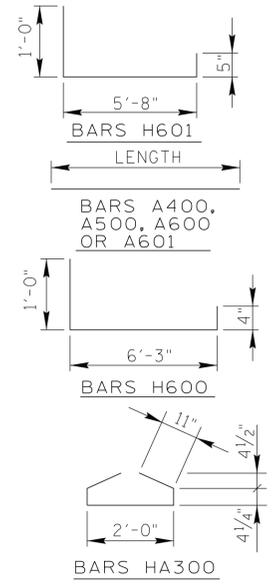
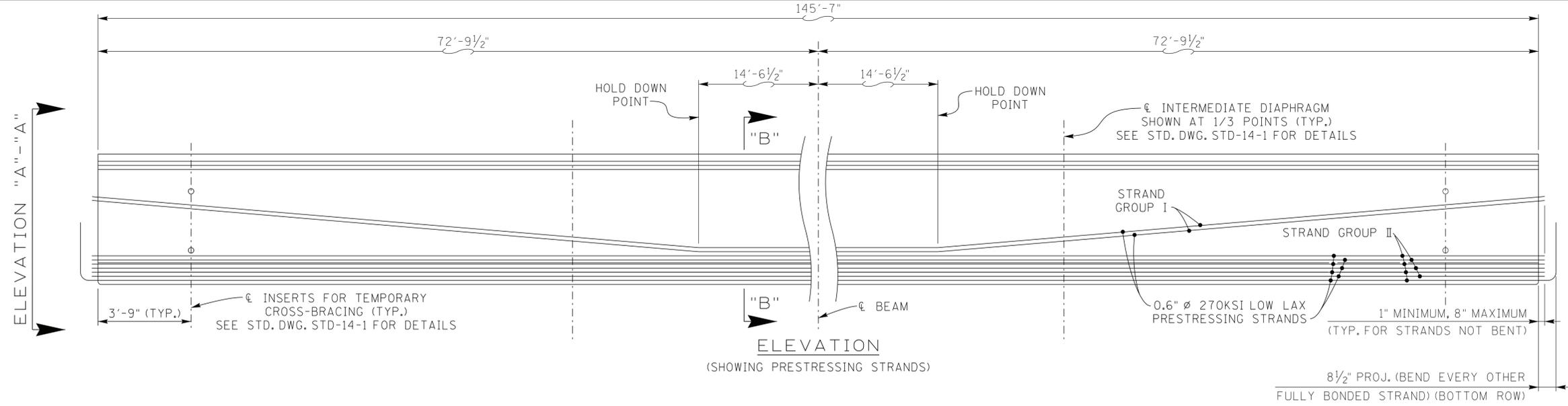


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 SUPERSTRUCTURE DETAILS
 OLD LOWER RIVER ROAD
 OVER
 SOUTH MOUSE CREEK
 STATION 23+02.94
 LOG MILE 13.09
 BRADLEY COUNTY
 2025

Del A. Krzyzewicz
 ENGINEER OF STRUCTURES

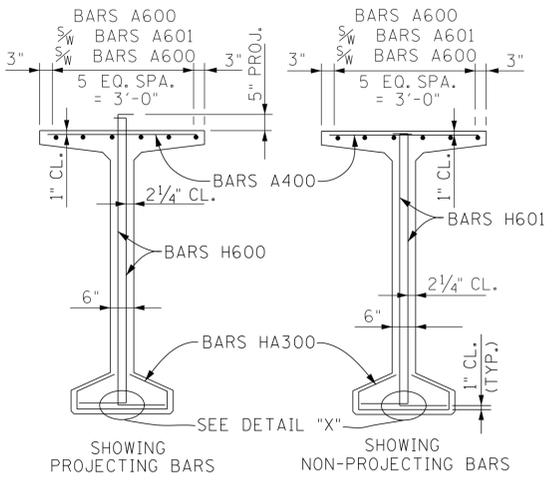
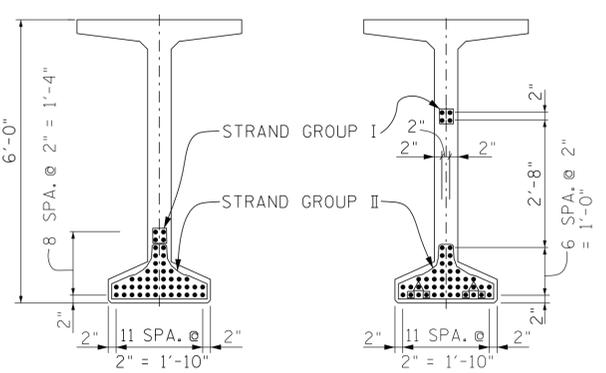
PROJECT NO.	YEAR	SHEET NO.
BRZ-1185(4)	2025	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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..			



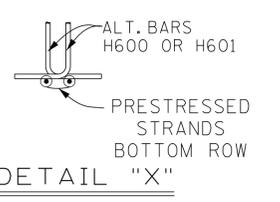
BILL OF STEEL PER BEAM			
BAR	SIZE	NO. REQ'D	LENGTH
A400	4	147	3'-2"
A500	5	8	5'-6"
A600	6	12	60'-0"
A601	6	6	32'-5"
H600	6	111	7'-7"
H601	6	24	7'-1"
HA300	3	38	4'-7"

□ DENOTES: BREAK BOND 12'-0" @ EACH END OF BEAM.
 ▲ DENOTES: BREAK BOND 6'-0" @ EACH END OF BEAM.



SECTION "B"- "B" (SHOWING PRESTRESSED STRANDS AT MIDSPAN) (46 STRANDS)
 ELEVATION "A"- "A" (SHOWING PRESTRESSED STRANDS AT ENDS) (46 STRANDS)

SECTION "C"- "C" (SHOWING PROJECTING BARS)
 SECTION "C"- "C" (SHOWING NON-PROJECTING BARS)



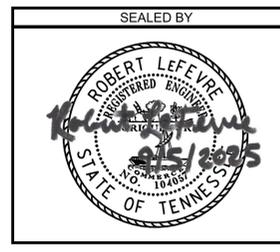
GENERAL NOTES:

NOTE: SEE STD-14-1 FOR BULB-TEE BEAM STANDARD DETAILS AND NOTES.
 NOTE: THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 10,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 8,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.
 NOTE: ALL BEAMS ARE BT-72.
 PRESTRESSING STRANDS: ALL STRANDS SHALL BE 6/10" DIAMETER, UNCOATED 7-WIRE STRANDS, ASTM A416 GRADE 270, LOW-LAX, A=0.217 SQ. IN, PULLED TO 43,943 LBS. PER STRAND UNLESS OTHERWISE NOTED.
 NOTE: THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

PRESTRESSED BEAM DESIGN DATA (PER BEAM)

LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.75 LANES
 SHEAR = 0.76 LANES
 COMPOSITE DEAD LOAD: DC = 140 LB/FT
 DW = 228 LB/FT
 COMPOSITE SLAB DESIGN STRENGTH: F'C = 4000 PSI
 DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED

ESTIMATED QUANTITIES (PER BEAM) (SEE TABLE OF DIMENSIONS AND QUANTITIES)			
NO. BEAMS REQUIRED	PRESTRESSING STRANDS (LOW RELAXATION) LB.	CONCRETE C.Y.	REINFORCING STEEL LB.
4	5,027	29	3,316

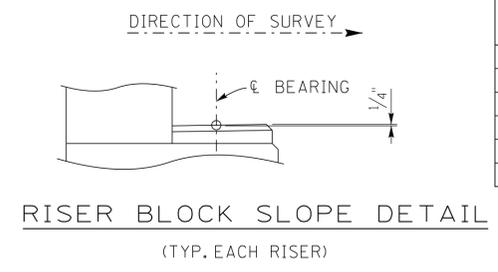
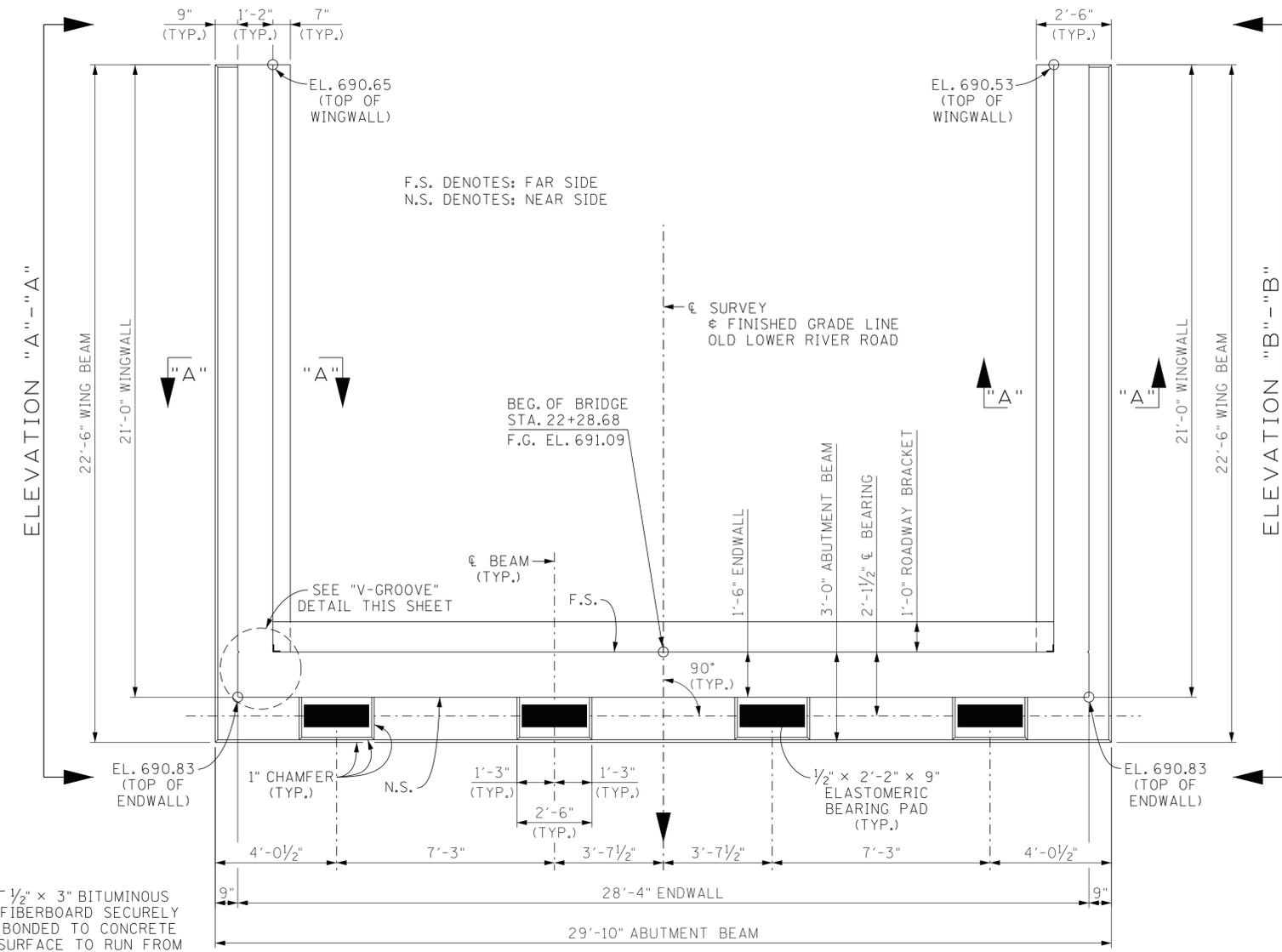


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 PRESTRESSED BULB TEE BEAM DETAILS
 OLD LOWER RIVER ROAD
 OVER
 SOUTH MOUSE CREEK
 STATION 23+02.94
 LOG MILE 13.09
 BRADLEY COUNTY
 2025

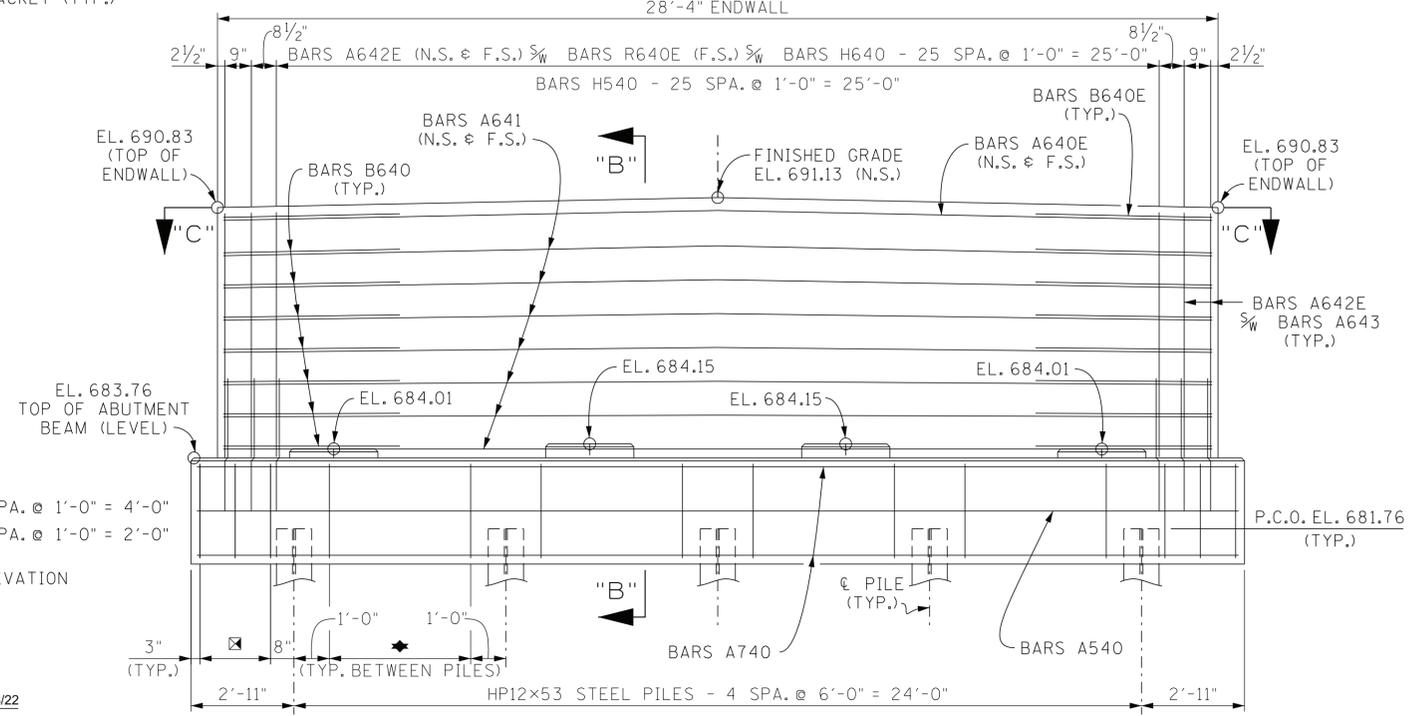
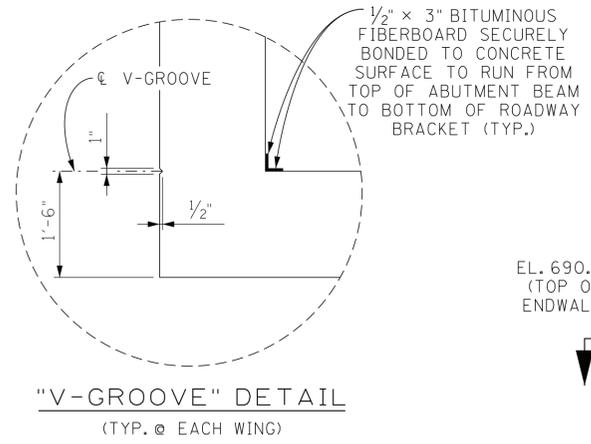
Del A. Krawczyk
 ENGINEER OF STRUCTURES

PIN NO.: 124677.00
 DESIGN BY: LBN DATE: 10/18/22
 DRAWN BY: JERRY W. SIMPSON DATE: 1/26/23
 SUPERVISED BY: STEELE/LEFEVRE DATE: 1/26/23
 CHECKED BY: J. FALCE DATE: 09/20/23

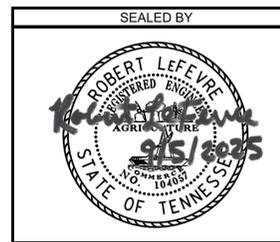
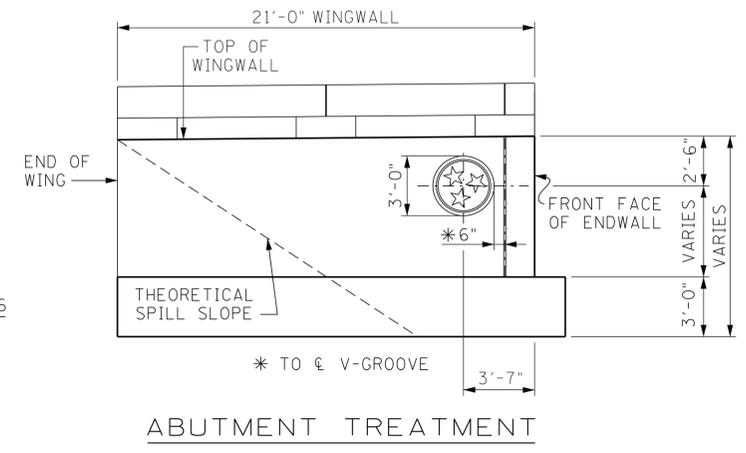
PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
..			
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- NOTE:** RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
- NOTE:** RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
- NOTE:** ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
- NOTE:** WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOSTS AND PARAPETS, SEE STD. DWG. NO. STD-7-1.
- NOTE:** NOT LESS THAN HALF OF THE SLAB SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. ONE ABUTMENT ENDWALL SHALL BE POURED FULL HEIGHT CONCURRENTLY WITH THE END OF SLAB. AT LEAST THE TOP 12 INCHES OF THE OTHER ENDWALL SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
- NOTE:** COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.
- NOTE:** WINGBEAM PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.



CLASS "D" CONCRETE (BRIDGES' DECK) C.Y.	CLASS "A" CONCRETE (BRIDGES) C.Y.	STEEL BAR REINFORCEMENT (BRIDGES) LBS.	EPOXY COATED REINFORCING STEEL LBS.
12	34	5,276	1,454



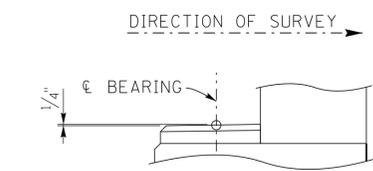
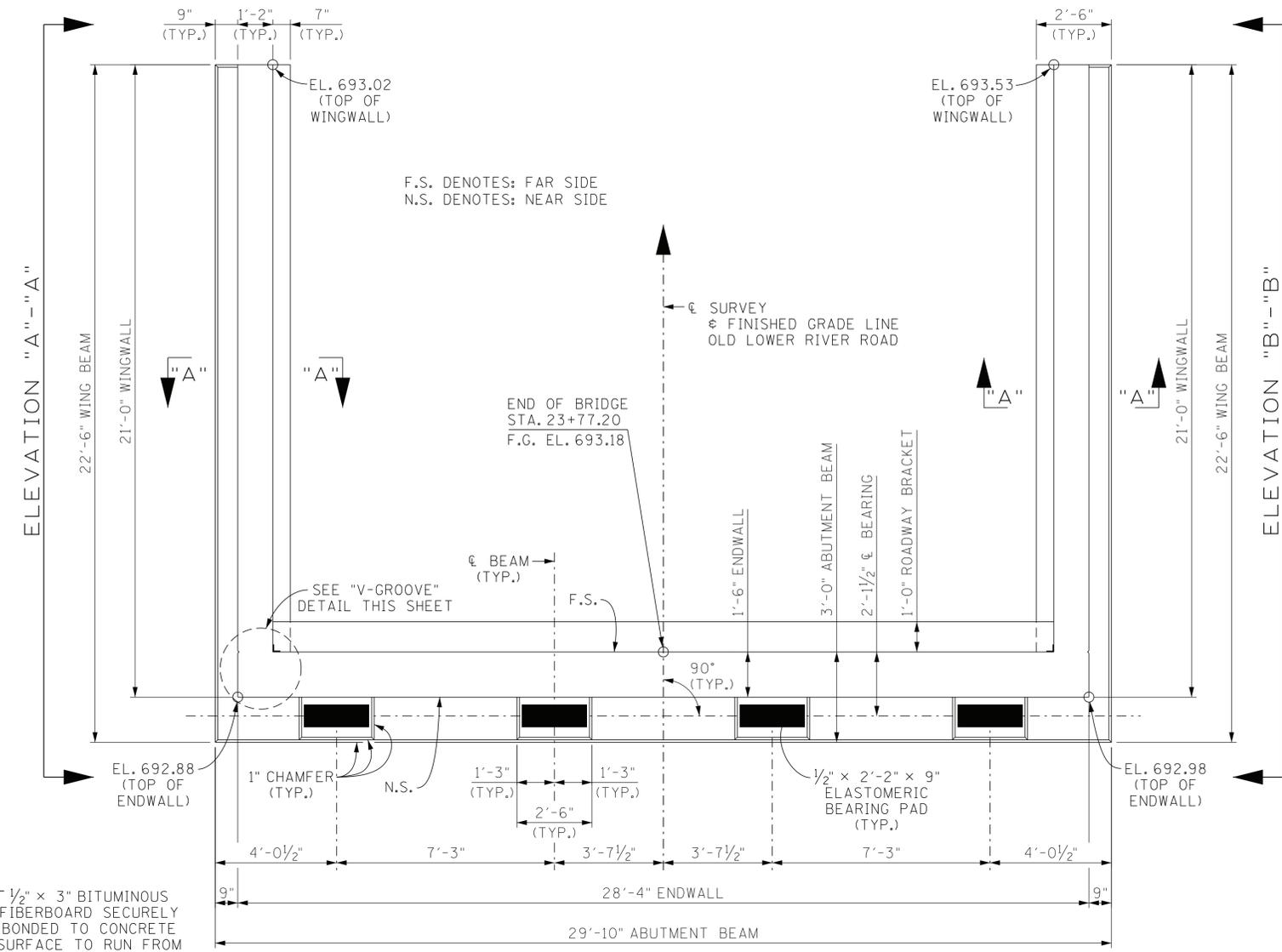
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 1
OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
STATION 23+02.94
LOG MILE 13.09
BRADLEY COUNTY
2025

Del A. Kravitz
ENGINEER OF STRUCTURES

PIN NO.: 124677.00
DESIGN BY: LBN DATE: 10/18/22
DRAWN BY: B.ERVIN DATE: 12/2022
SUPERVISED BY: STEELE/LEFEVRE DATE: 12/2022
CHECKED BY: J. FALCE DATE: 09/2023

PROJECT NO.	YEAR	SHEET NO.
BRZ-1185(4)	2025	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



RISER BLOCK SLOPE DETAIL
(TYP. EACH RISER)

NOTE: RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.

NOTE: RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.

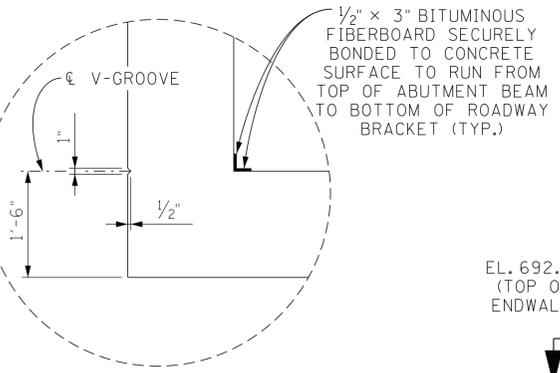
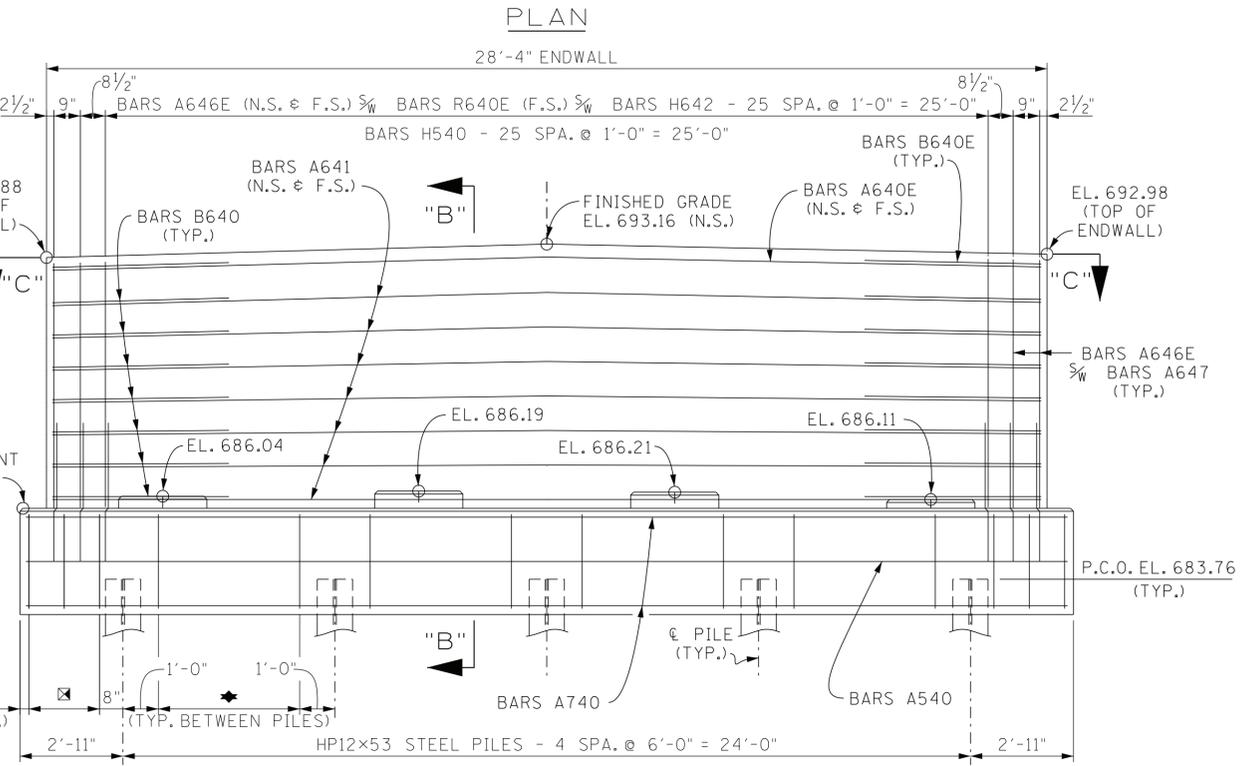
NOTE: ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.

NOTE: WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOSTS AND PARAPETS, SEE STD. DWG. NO. STD-7-1.

NOTE: NOT LESS THAN HALF OF THE SLAB SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. ONE ABUTMENT ENDWALL SHALL BE POURED FULL HEIGHT CONCURRENTLY WITH THE END OF SLAB. AT LEAST THE TOP 12 INCHES OF THE OTHER ENDWALL SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.

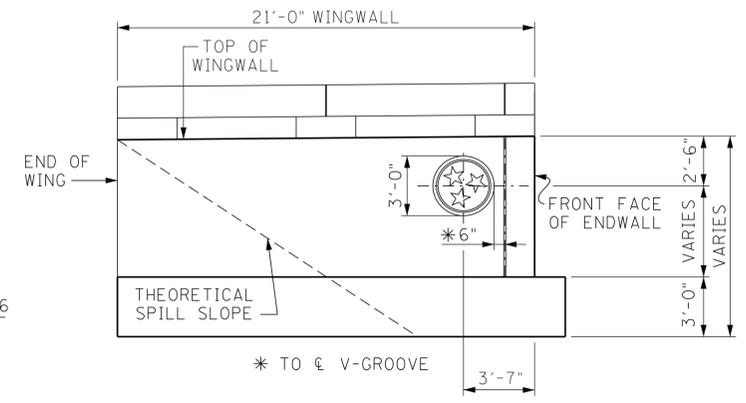
NOTE: COST OF PARAPET AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET SYSTEM.

NOTE: WINGBEAM PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.

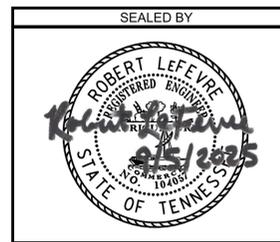


"V-GROOVE" DETAIL
(TYP. @ EACH WING)

CLASS "D" CONCRETE (BRIDGES/DECK) C.Y.	CLASS "A" CONCRETE (BRIDGES) C.Y.	STEEL BAR REINFORCEMENT (BRIDGES) LBS.	EPOXY COATED REINFORCING STEEL LBS.
2	46	5,462	1,454



ABUTMENT TREATMENT



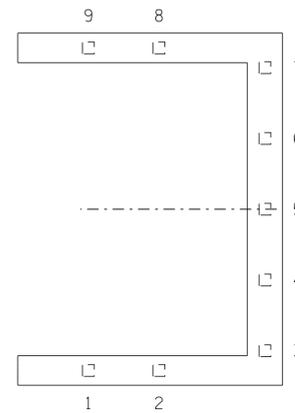
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 2
OLD LOWER RIVER ROAD
OVER
SOUTH MOUSE CREEK
STATION 23+02.94
LOG MILE 13.09
BRADLEY COUNTY
2025

Del A. Kravitz
ENGINEER OF STRUCTURES

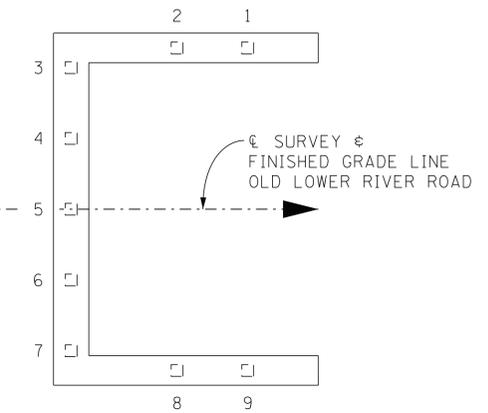
PIN NO.: 124677.00	DATE: 10/18/22
DESIGN BY: LBN	DATE: 12/2022
DRAWN BY: B.ERVIN	DATE: 12/2022
SUPERVISED BY: STEELE/LEFEVRE	DATE: 09/2023
CHECKED BY: J. FALCE	

ELEVATION
(LOOKING FORWARD ON SURVEY)

PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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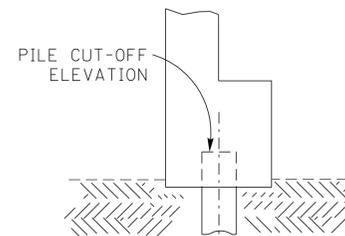


ABUTMENT NO. 1

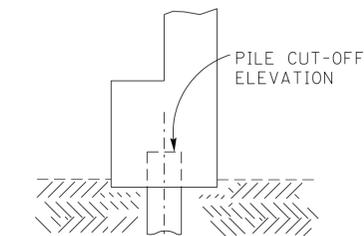


ABUTMENT NO. 2

PLAN



ABUTMENT NO. 1



ABUTMENT NO. 2

TABLE OF PILE DATA

ABUTMENT NO. 1	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9
	PILE TIP ELEV.									
	IN PLACE PILE LENGTH									
ABUTMENT NO. 2	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9
	PILE TIP ELEV.									
	IN PLACE PILE LENGTH									

NOTE: TO CONTRACTOR AND CONSTRUCTION OFFICE; THE BLANKS ON THIS SHEET ARE TO BE FILLED IN BY THE CONSTRUCTION OFFICE AND/OR FIELD ENGINEER GIVING AS-BUILT CONDITIONS. AFTER COMPLETION, IT IS TO BE SENT TO THE DIVISION OF STRUCTURES TO BECOME PART OF FINAL BRIDGE DOCUMENTS.

PIN NO.: 124677.00
 DESIGN BY: LBN DATE: 10/18/22
 DRAWN BY: B. ERVIN DATE: 01/2023
 SUPERVISED BY: STEELE/LEFEVRE DATE: 01/2023
 CHECKED BY: J. FALCE DATE: 09/2023

SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 FINAL FOUNDATION DATA
 OLD LOWER RIVER ROAD
 OVER
 SOUTH MOUSE CREEK
 STATION 23+02.94
 LOG MILE 13.09
 BRADLEY COUNTY
 2025

Del A. Krugewicz
 ENGINEER OF STRUCTURES

PROJECT NO.	YEAR	SHEET NO.	
BRZ-1185(4)	2025		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

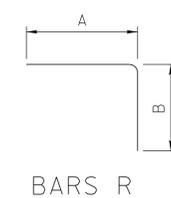
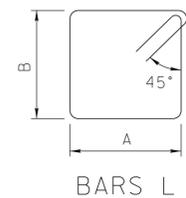
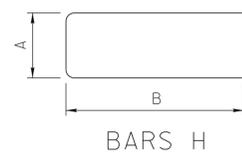
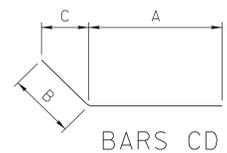
SUPERSTRUCTURE (EPOXY)								
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS				LENGTH (FEET)
				A	B	C	D	
A500E	SLAB	5	108					60'-0"
A501E	SLAB	5	23					35'-3"
A502E	SLAB	5	318					28'-0"
A503E	SLAB	5	31					33'-1"
CD400E	BRIDGE RAIL/SLAB	4	240	3'-1"	2'-0"			5'-1"
CD700E	BRIDGE RAIL/SLAB	7	240	3'-1"	2'-0"			5'-1"
H301E	SLAB	3	156	4 3/4"	2'-0"			4'-5"

ABUTMENT NO. 1 (NON-EPOXY)								
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS				LENGTH (FEET)
				A	B	C	D	
A440	WINGWALLS	4	40					6'-7"
A441	WINGWALLS	4	16					20'-8"
A442	ROADWAY BRACKET	4	1					25'-8"
A540	ABUTMENT BEAM	5	2					29'-6"
A541	WING BEAMS	5	4					22'-2"
A641	ENDWALL	6	14					28'-0"
A643	EW/ABUTMENT BEAM	6	8					3'-10"
A644	WINGWALLS	6	40					6'-7"
A645	WINGWALLS	6	16					20'-8"
A740	ABUTMENT BEAM	7	10					29'-6"
A741	WING BEAMS	7	18					22'-2"
B640	ENDWALL	6	14	5'-0"				5'-8"
H540	EW/ROADWAY BRACKET	5	26	2'-2"	6"			3'-2"
H640	EW/ABUTMENT BEAM	6	26	1'-2"	3'-10"			8'-10"
H641	WINGWALLS/WING BEAMS	6	40	10"	3'-10"			8'-4"
L540	ABUTMENT BEAM	5	26	2'-8"	2'-8"			11'-7"
L541	WING BEAMS	5	36	2'-2"	2'-8"			10'-7"

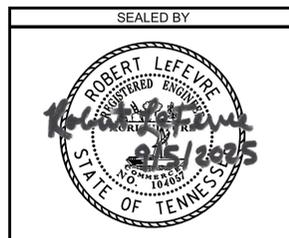
ABUTMENT NO. 2 (NON-EPOXY)								
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS				LENGTH (FEET)
				A	B	C	D	
A441	WINGWALLS	4	18					20'-8"
A442	ROADWAY BRACKET	4	1					25'-8"
A443	WINGWALLS	4	40					6'-11"
A541	ABUTMENT BEAM	5	2					29'-6"
A541	WING BEAMS	5	4					22'-2"
A641	ENDWALL	6	14					28'-0"
A645	WINGWALLS	6	18					20'-8"
A647	EW/ABUTMENT BEAM	6	8					3'-11"
A648	WINGWALLS	6	40					6'-11"
A740	ABUTMENT BEAM	7	10					29'-6"
A741	WING BEAMS	7	18					22'-2"
B640	ENDWALL	6	14	5'-0"				5'-8"
H540	EW/ROADWAY BRACKET	5	26	2'-2"	6"			3'-2"
H642	EW/ ABUTMENT BEAM	6	26	1'-2"	3'-11"			9'-0"
H643	WINGWALLS/WING BEAMS	6	40	10"	4'-3"			9'-4"
L540	ABUTMENT BEAM	5	26	2'-8"	2'-8"			11'-7"
L541	WING BEAMS	5	36	2'-2"	2'-8"			10'-7"

ABUTMENT NO. 1 (EPOXY)								
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS				LENGTH (FEET)
				A	B	C	D	
A640E	ENDWALL	6	2					28'-0"
A642E	ENDWALL	6	60					6'-11"
B640E	ENDWALL	6	2	5'-0"				5'-8"
H770E	BRIDGE RAILING	7	34	9"	3'-9"			8'-3"
R640E	ENDWALL/SLAB	6	26	2'-0"	2'-0"			4'-0"

ABUTMENT NO. 2 (EPOXY)								
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS				LENGTH (FEET)
				A	B	C	D	
A640E	ENDWALL	6	2					28'-0"
A646E	ENDWALL	6	60					6'-11"
B640E	ENDWALL	6	2	5'-0"				5'-8"
H770E	BRIDGE RAILING	7	34	9"	3'-9"			8'-3"
R640E	ENDWALL/SLAB	6	26	2'-0"	2'-0"			4'-0"

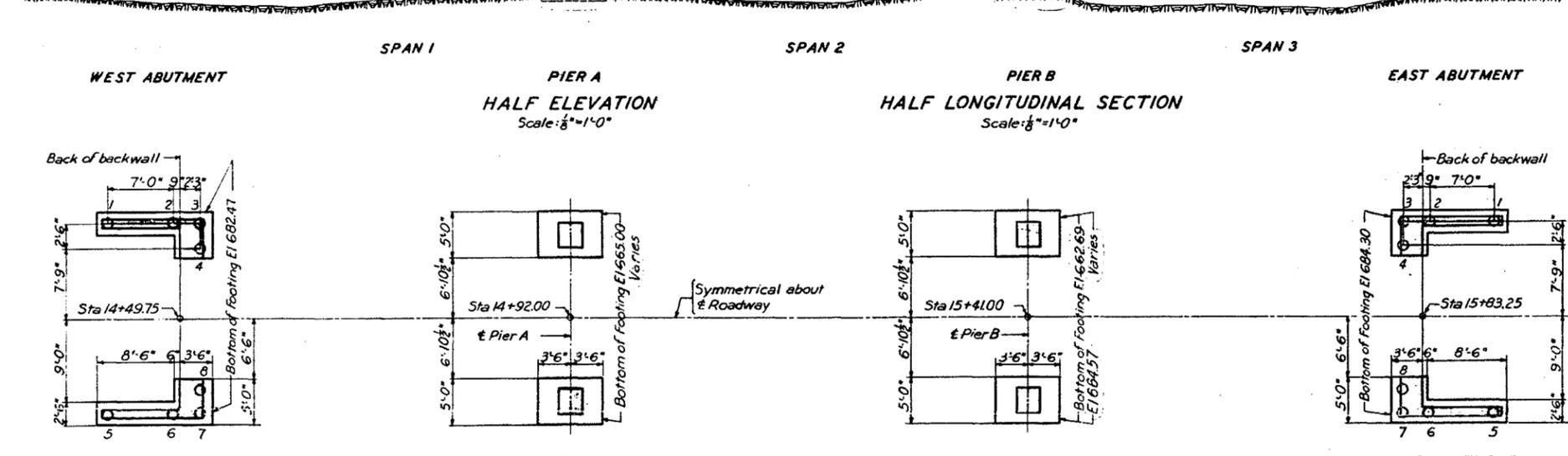
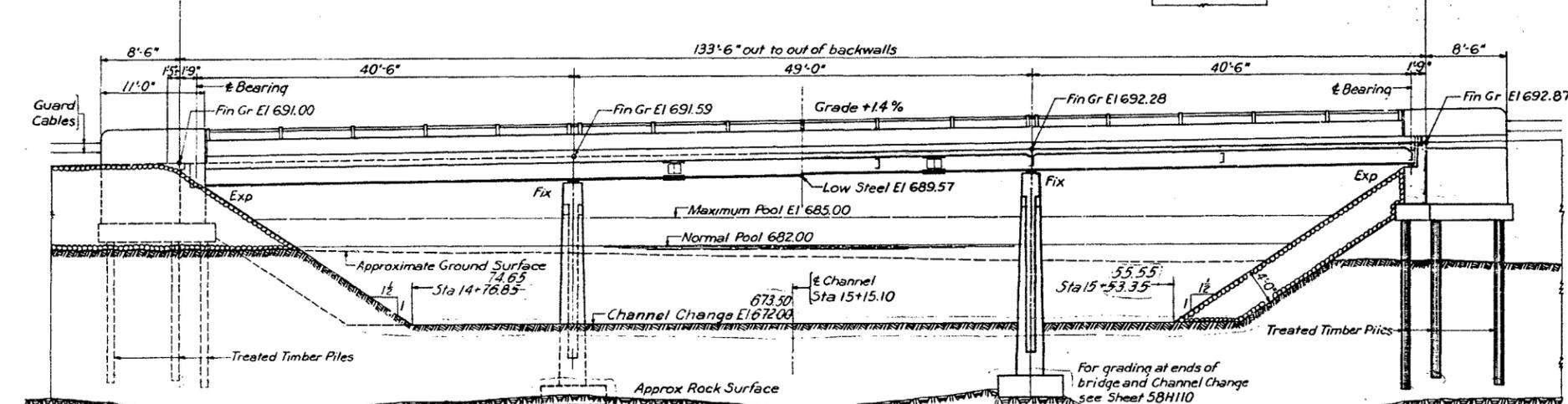
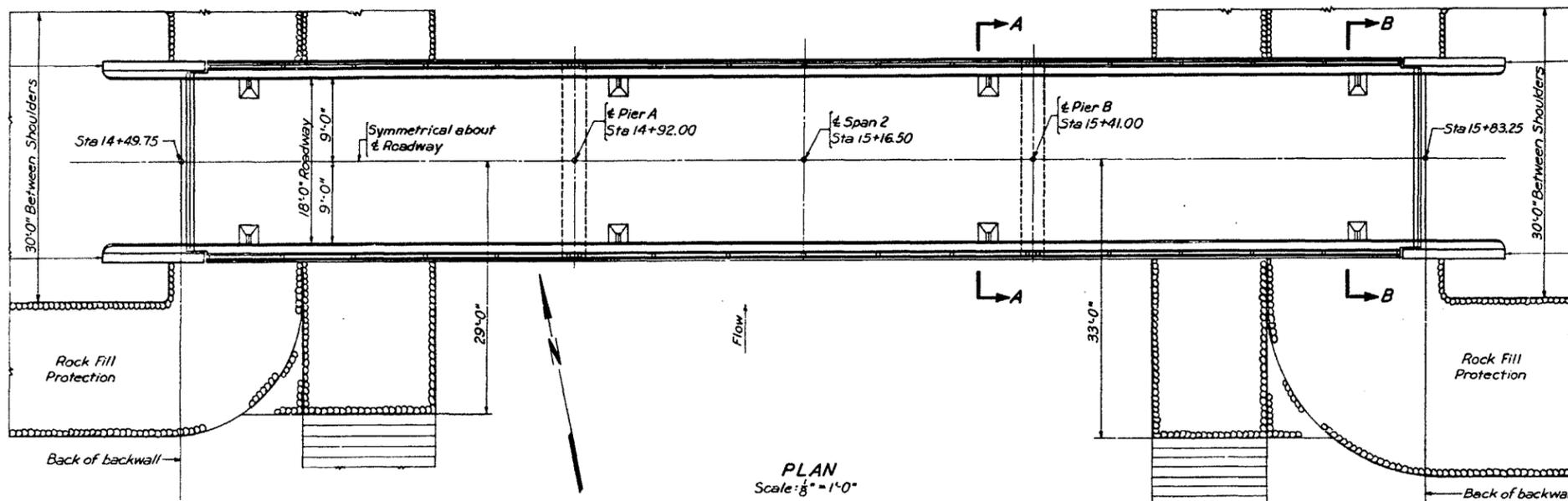


PIN NO.: 124677.00
 DESIGN BY: LBN DATE: 10/18/22
 DRAWN BY: B. ERVIN DATE: 01-2023
 SUPERVISED BY: STEELE/LEFEVRE DATE: 01-2023
 CHECKED BY: J. FALCE DATE: 09/2023



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BILL OF STEEL
 OLD LOWER RIVER ROAD
 OVER
 SOUTH MOUSE CREEK
 STATION 23+02.94
 LOG MILE 13.09
 BRADLEY COUNTY
 2025

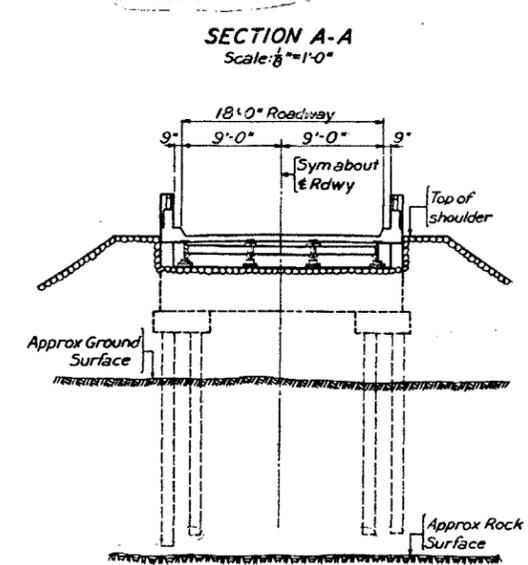
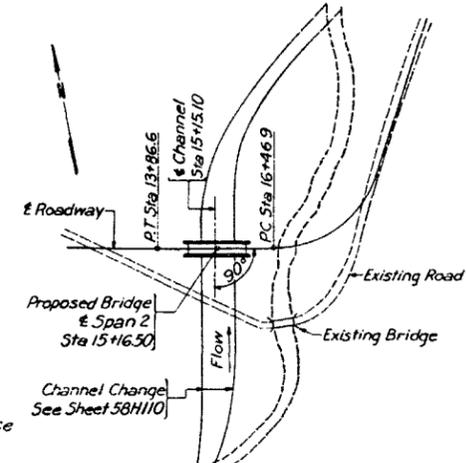
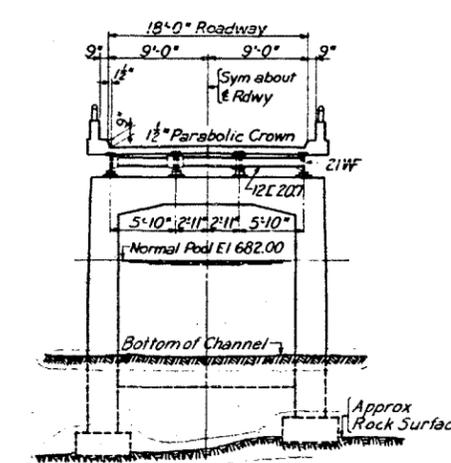
ENGINEER OF STRUCTURES



1	WH/CD/CHG	8
Revised as constructed		
REV NO	DATE MADE	BY
DSGN	AC.R.	SUPY G.F.
CHKD	G.F.	INSP
TRCD	AC.R.	ENGINEER
COMP	G.F.	CONTRACTOR

SUMMARY OF QUANTITIES							
Item No	125	126	401	418	421	452	545
Item	Earth Excav for Structures Cu Yd	Rock Excav for Structures Cu Yd	Class A Concrete Cu Yd	Reinforcing Steel Lb	Structural Carbon Steel Lb	Treated Timber Piling Lin Ft	Coffer-dams Each
West Abutment	23.89	0	23.89	3,689		(130.5)	
Pier A	4.3	0	28.72	4,164			1
Pier B	39.5	0	29.41	4,366			1
East Abutment			24.02	3,689		(147.2)	
Superstructure			83.50	18,451	48,733		
Totals for Bridge	608	0	189.60	34,359	48,738	277.7	2

Work required in addition to the items listed in the table shall be done under the following item:
Item 551 - Removing existing South Mouse Creek Bridge - Lump Sum



NOTES:
SPECIFICATIONS: Sections 125, 400, 418, 420, 450, 545 and 550 of TVA Specifications for this project.
DESIGN LIVE LOAD: H10 on two lanes in accordance with AASHTO Specifications 1935, 2nd Edition.
PILING: Material: Piles shall be Southern Yellow Pine ASTM D25-37, Class B. Treatment: Empty-cell process (AWPA Specification 39a) with retention of 15lb of creosote oil per cu ft of material. Driving: The earth fill shall be placed up to the bottom of footings of abutments before piles are driven. Piles shall be driven to rock or to a minimum computed bearing value of 18 tons.
FOUNDATION FOR PIERS: Footings shall bear on sound rock. If sound rock is not encountered at or above elevations called for, the Bridge Engineer shall be notified immediately.
CONCRETE: All concrete class A. All cement Type B portland cement. Coarse Aggregate: Substructure - size 3, Superstructure - size 4. All exposed edges shall be chamfered 3/8\" except as noted. All surfaces exposed to view in the finished structure above EI 675.0 shall be given a rubbed finish.
BENCH MARK: TVA BM BD759 EI 699.62.

- LIST OF DRAWINGS:
SBH102 - GENERAL DRAWING
SBH103 - EAST & WEST ABUTMENTS
SBH104 - PIERS A & B
SBH105 - STRUCTURAL STEEL
SBH106 - ROADWAY DECK & RAILINGS
SBH107 - REINFORCING STEEL
SBH134-SBH135 INCL - SHOP DRAWINGS

PILE RECORD				
Pile No	Elevation Cur-off	Tip	Length in Place	Calc Brg Tons
WEST ABUTMENT				
1	682.97	666.77	16.2	19.1
2	682.97	663.43	19.5	17.4
3	682.97	666.69	16.3	18.2
4	682.97	666.97	16.0	19.1
5	682.97	667.33	15.6	20.2
6	682.97	667.72	15.3	17.4
7	682.97	666.91	16.1	19.1
8	682.97	667.48	15.5	19.1
EAST ABUTMENT				
1	684.80	666.58	18.2	19.1
2	684.80	667.44	17.4	20.2
3	684.80	665.15	19.7	21.4
4	684.80	666.23	18.6	20.2
5	684.80	666.65	18.1	19.2
6	684.80	666.59	18.2	19.2
7	684.80	666.37	18.4	19.1
8	684.80	666.17	18.6	19.1

PROJECT 07302-4058.02
BLYTHE'S FERRY ROAD
AT SOUTH MOUSE CREEK

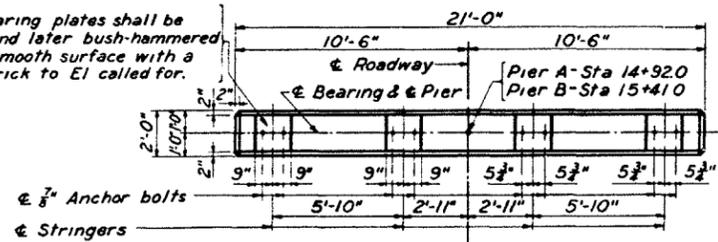
SOUTH MOUSE CREEK BRIDGE
BRIDGE NO. 06011850001
GENERAL DRAWING

CHICKAMAUGA PROJECT
TENNESSEE VALLEY AUTHORITY
DESIGN DEPARTMENT

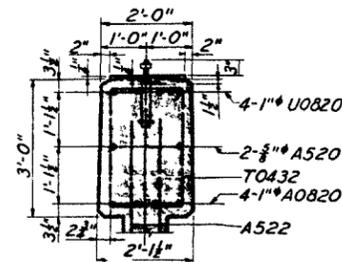
SUBMITTED: *Erwin Hensch* RECOMMENDED: *Frank W. Whiteley* APPROVED: *NO. Hageman*

CHATTANOOGA 4-28-39 7 HR 5 58H102R1

Areas under bearing plates shall be poured 2" high and later bush-hammered and ground to a smooth surface with a carborundum brick to EI called for.

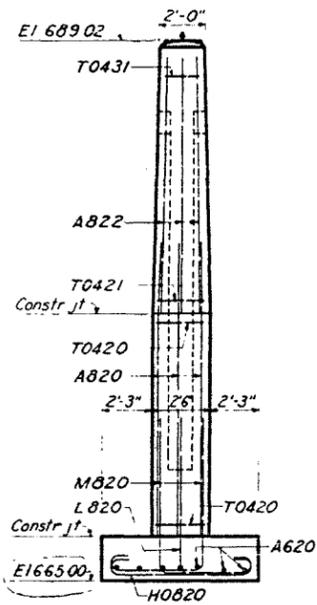


PLAN

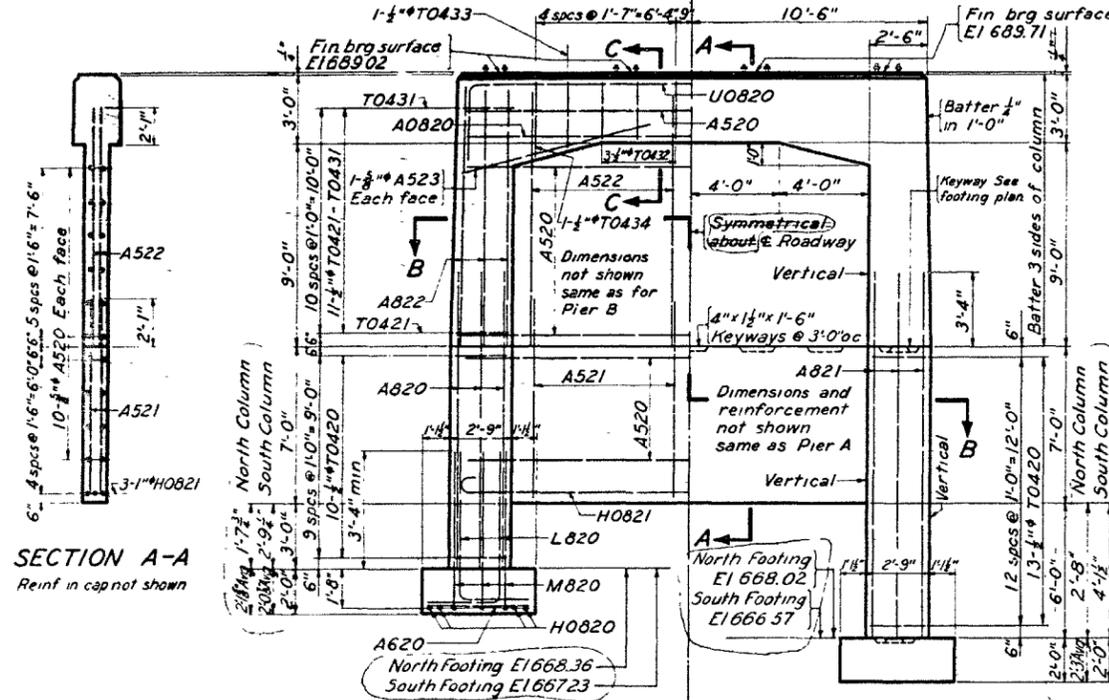


SECTION C-C

Scale 1/2"=1'-0"



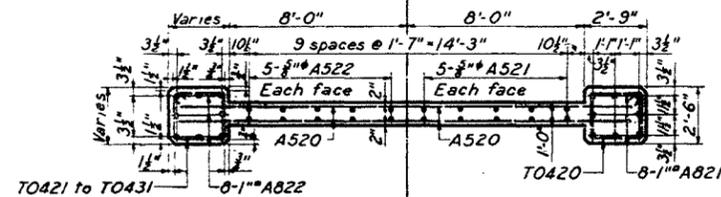
END ELEVATION PIER A



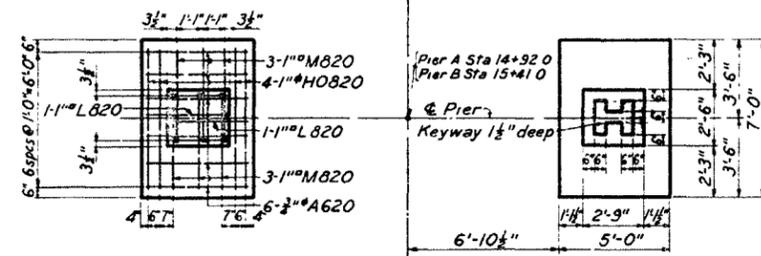
HALF ELEVATION PIER A

HALF ELEVATION PIER B

END ELEVATION PIER B



SECTION B-B



FOOTING PLAN

NOTES:
 REINFORCING STEEL All dimensions relative to reinforcing steel are to centers of bars. For Schedule and Bending Details, see Sheet 58H107.

For other notes and Summary of Quantities see Sheet 58H102

Scale 1/2"=1'-0"
 Except as noted

PROJECT 07302-4058.02

BLTYE'S FERRY ROAD
 AT SOUTH MOUSE CREEK

SOUTH MOUSE CREEK BRIDGE
 PIERS A & B

CHICKAMAUGA PROJECT
 TENNESSEE VALLEY AUTHORITY
 DESIGN DEPARTMENT

SUBMITTED	RECOMMENDED	APPROVED
Evon Hancock	Frank W. Caldwell	W. H. Hagaman
CHATTANOOGA	4-28-39	7 HR 5

58H104 RI

RECORD DRAWING AS CONSTRUCTED
 Evon Hancock 4-1-1949

1	W	0	C	D	C	A	G	58
Revised as constructed								
REV	NO	DATE	MADE	CHKD	SUPV	INSP	SUBV	PIECR
DSGN	GF				SUPV	GF		
DRWN	GF				INSP			
CHKD	GF							
INCD	GF							
COMP	GF							

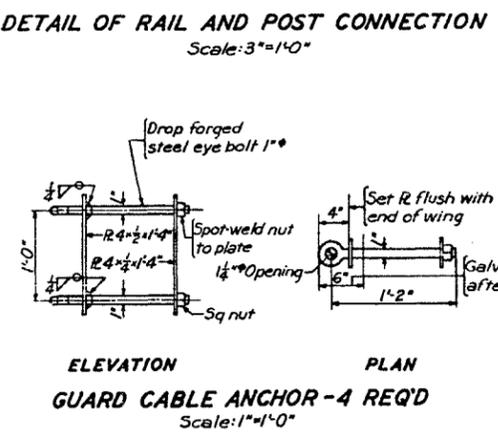
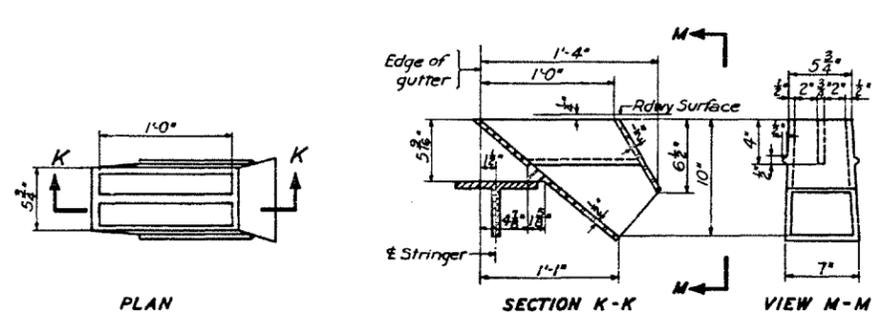
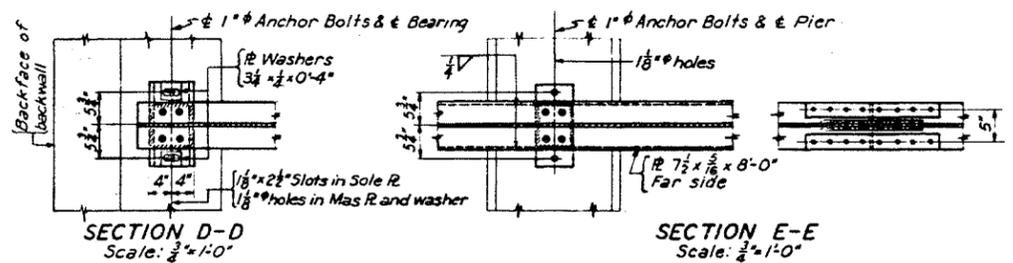
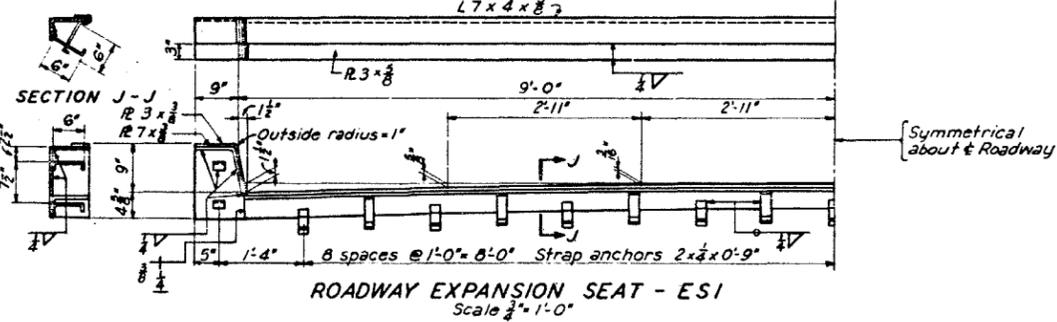
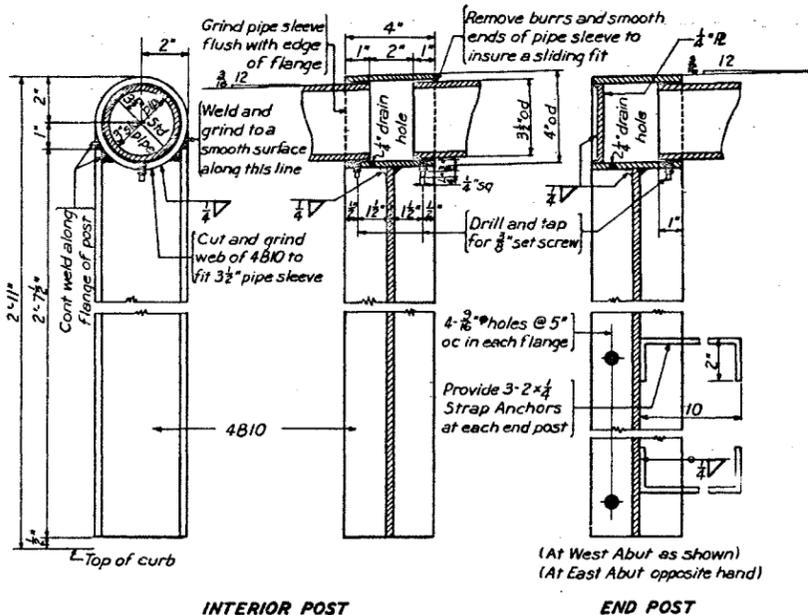
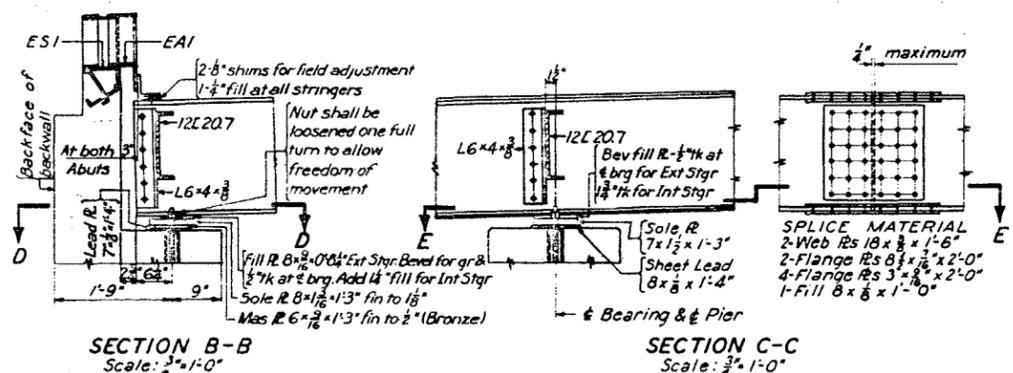
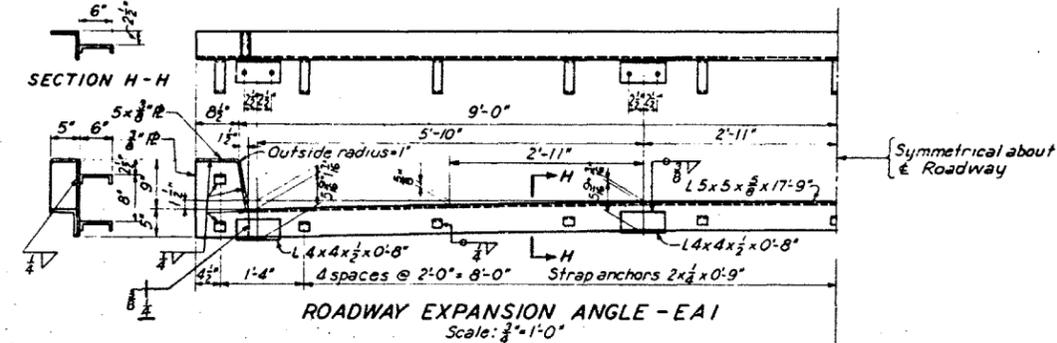
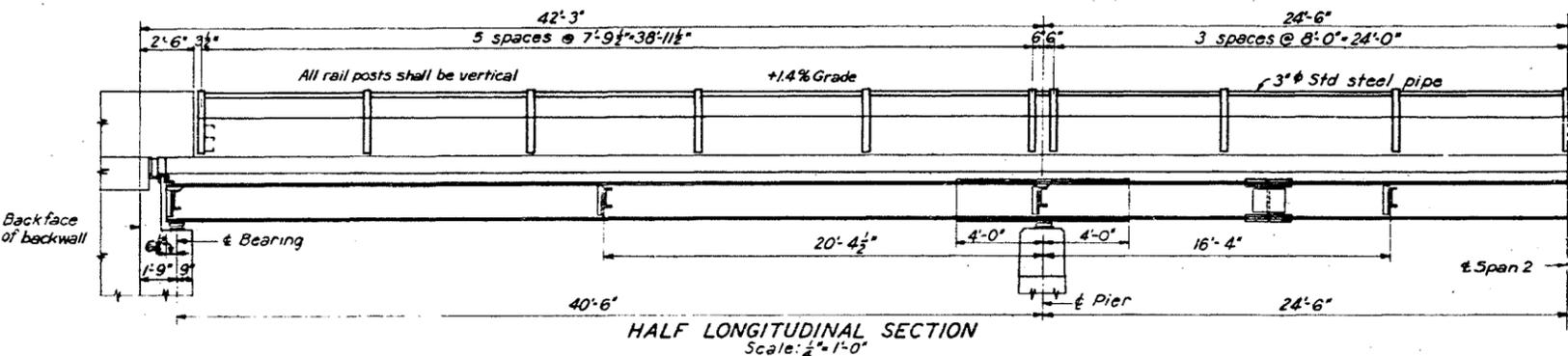
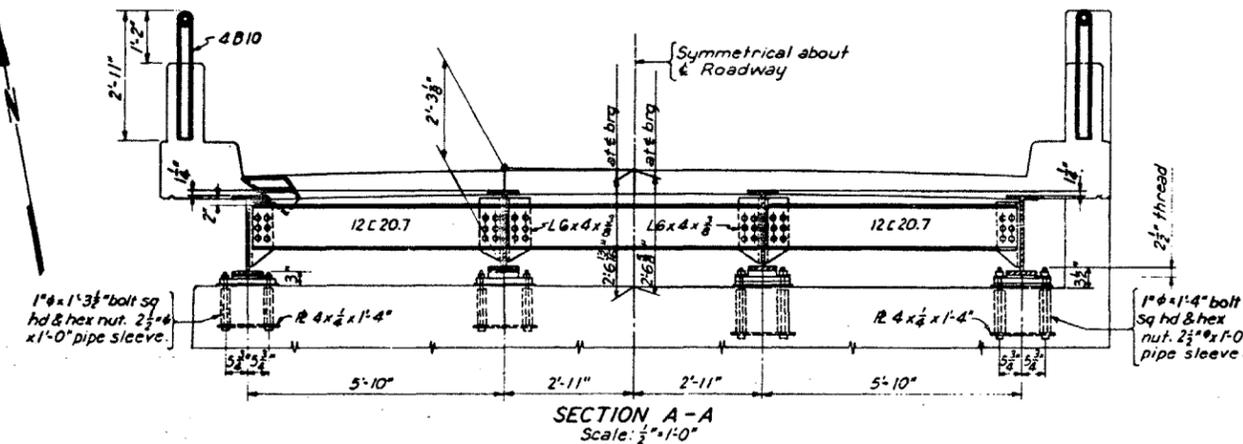
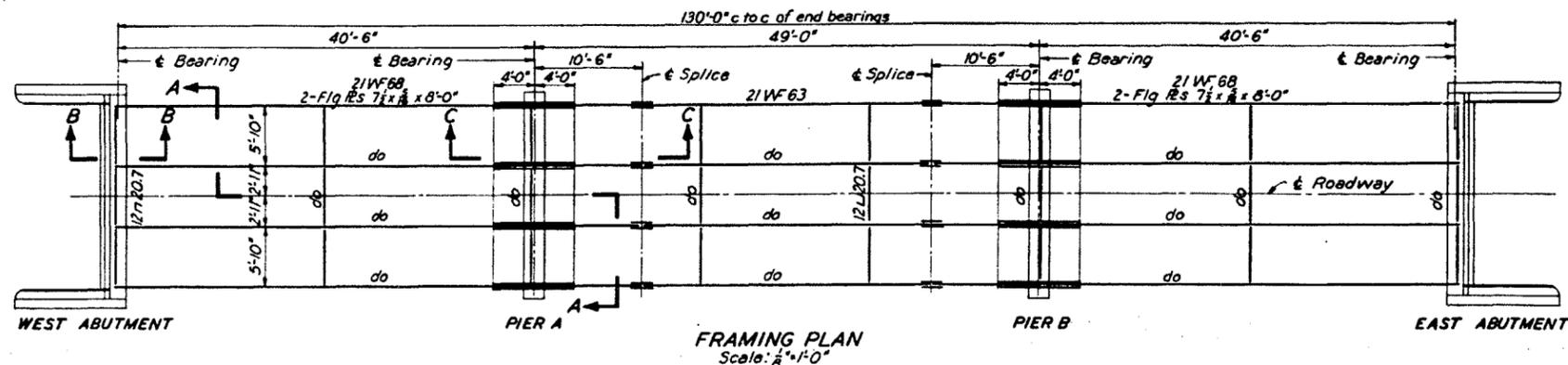
SUMMARY OF QUANTITIES

SURFACING		REMOVAL OF STRUCTURES AND ENCUMBRANCES	CLEARING AND GRUBBING	GRADING					WIRE ROPE GUARD RAIL		LENGTH OF PROJECT
Item No.	210			Item No 101	Item No.	120	135	157	123	Item No		812
Station	Traffic Bd. Macadam CUYd	Item No 110	Station to Station	Station to Station	Unclass. Excav. Cu. Yd.	Overhaul of Exc. Cu. Yd. Sta.	Rock Fill Protect Cu. Yd.	Earth Borrow Excav. Cu. Yd.	Station to Station	Lin Ft	Project Ends Sta. 20+00 Project Begins Sta. 1+50 Equations None Net Length Lin. Ft. 1850 Net Length Miles 0.35
4+00	F.E. Rt. 10	Lump Sum	1+50 -19+25	1+50 -19+25	306	23815	3846	59	4+21.25 14+41.25	1020	
Total	10		Total	Total	9751	1678	42		15+91.75 18+31.75	990	
			Total Acres	Total	10191	59			15+91.75 18+91.75	240	
				Total	20307	23815	5524	81	Total	2550	

RIPRAP		
Item No 830		
Station to Station	Sq Yds	
14+40 15+84	152	
Total	152	

DRAINAGE STRUCTURES											
Item No	672	401	418	421	452	545	551	125	126	120	
Station	Pipe-Lin. Ft	Bridge	Class A Concrete Cu. Yd.	Reinf. Steel lb.	Carbon Str. Steel lb.	Treated Tim. Piling Lin. Ft.	Cofferdams Each	Remove Exist. South Mouse Cr. Bridge	Earth Exc. for Struc. Cu. Yd.	Rock Exc. for Struc. Cu. Yd.	Chan. Exc. Incl. in. Balances Cu. Yd.
15+16.5 19+77	18"	133.5'	18960	34359	48738	2777	2	Lump Sum	80.8 90	3.1	2
Total	34		18960	34359	48738	2777	2	Lump Sum	89.8	3.1	2

W.K.
 P.C.
 A.G.
 J. J. J.
 W.B.
 J. J. J.



NOTES:
STRUCTURAL STEEL: Material: Carbon steel, ASTM A7-36 except as noted. Stringers and railing posts shall be copper-bearing. Rivets shall be of rivet steel, ASTM A141-38. Pipe railing shall be copper-bearing steel pipe, ASTM A120-36. Masonry plates at abutments shall be of phosphor bronze, ASTM B22-38T, Class A or B. Scuppers shall be Gray-Iron Castings, ASTM A48-36, Class No 20. Connections: riveted. Holes for stringer splices shall be sub-punched and reamed or drilled from the solid with connecting parts assembled in correct relative position. Pieces shall be match-marked to ensure correct assembly in the field. Expansion devices shall be assembled in the shop in correct relative position to ensure an accurate fit. Rivets: 3/8". Holes: 1/8" except as noted. Welding: see sub-sections 420.36 and 420.37 of specifications. Shop paint: One coat of red or blue lead paint, except that inside surfaces of pipe rails shall have two coats. Surfaces in contact with concrete shall not be painted. Field paint: Two coats of aluminum paint. Camber: stringers shall be fabricated so that any existing camber is positive.

For additional notes and Summary of Quantities see Sheet 58H102.

Scale: As noted

PROJECT 07302-4058.02

BLYTHE'S FERRY ROAD AT SOUTH MOUSE CREEK

SOUTH MOUSE CREEK BRIDGE

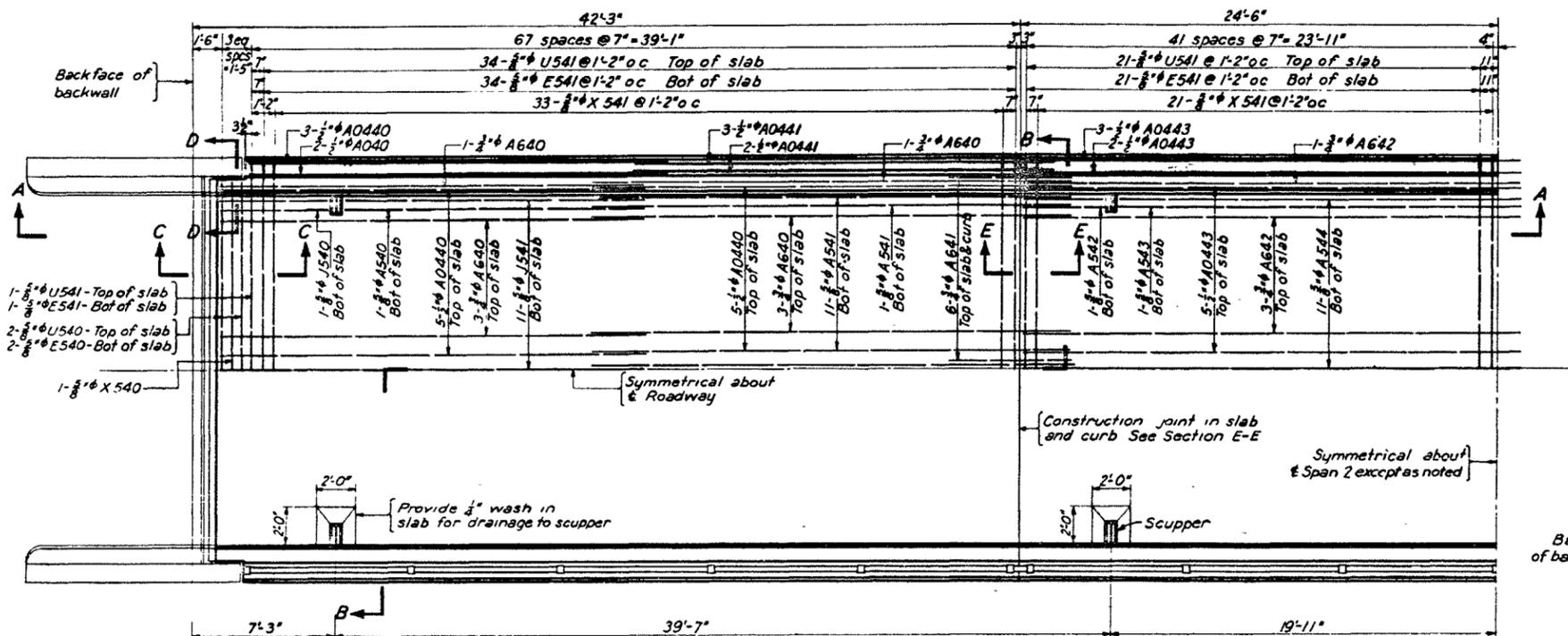
STRUCTURAL STEEL

CHICKAMAUGA PROJECT
TENNESSEE VALLEY AUTHORITY
DESIGN DEPARTMENT

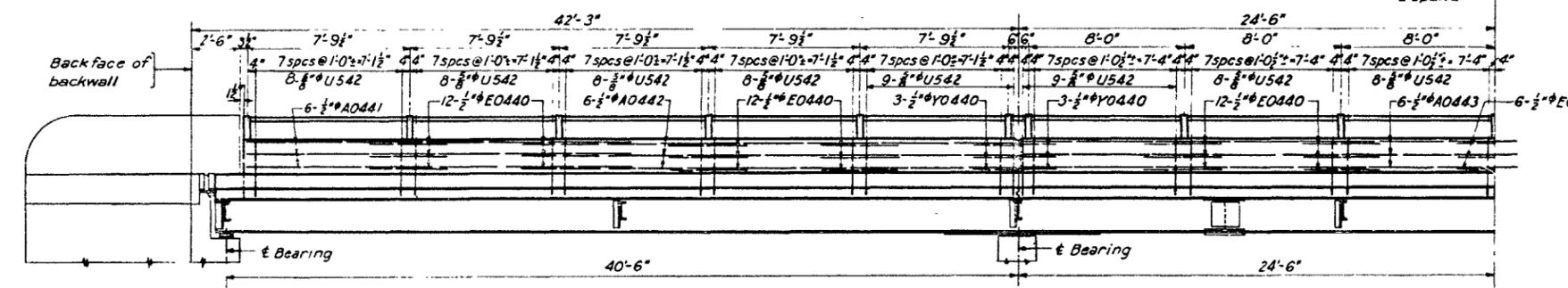
SUBMITTED	RECOMMENDED	APPROVED
Enver H. H. ...	Frank W. ...	H. H. ...
CHATTANOOGA	4-28-39	7 HR 5 58H105

RECORD DRAWING AS CONSTRUCTED

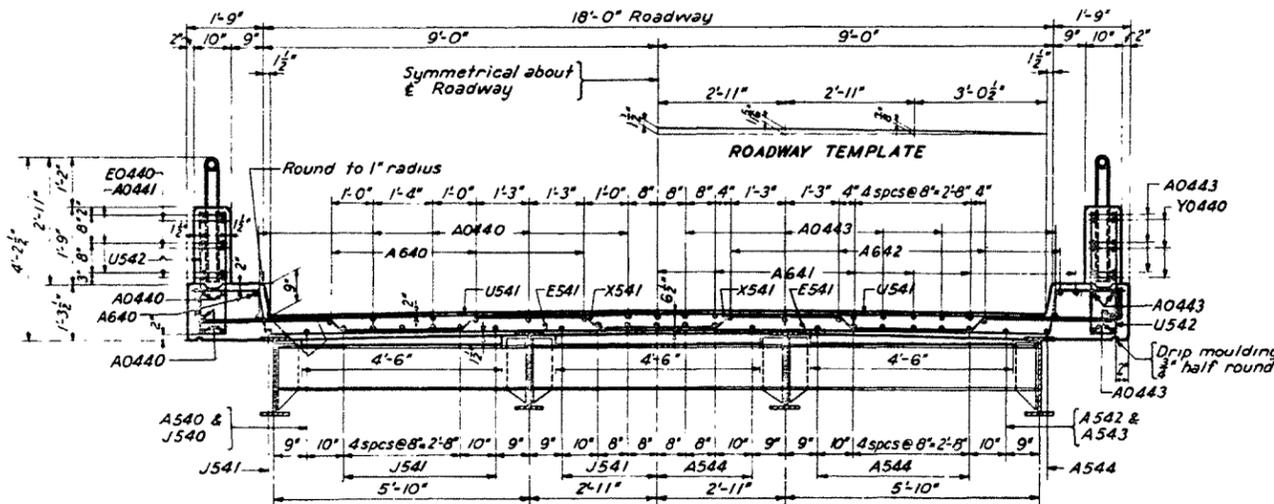
KEY NO.	DATE	REVISION	BY	CHKD	APP'D	REMARKS
1
2



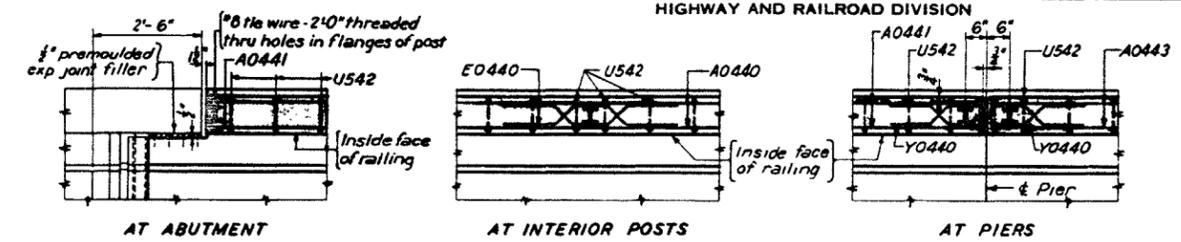
HALF PLAN
Showing reinforcing steel in slab and curbs
Scale: 1/4" = 1'-0"



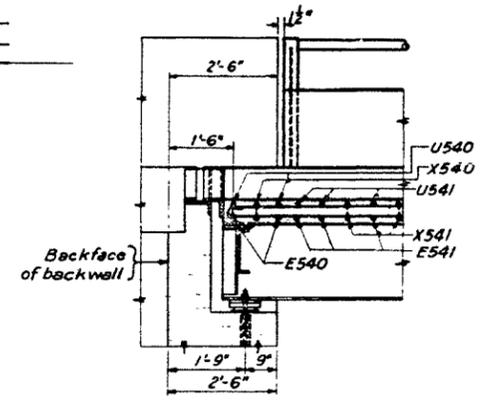
SECTION A-A
Scale: 1/4" = 1'-0"



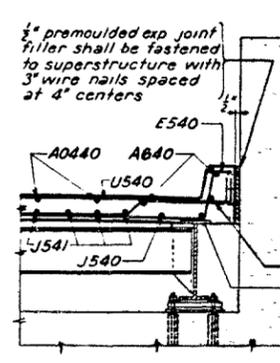
SECTION B-B
Scale: 1/2" = 1'-0"



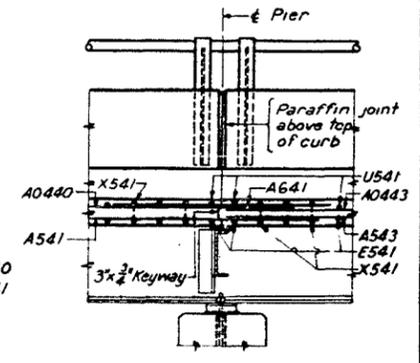
HORIZONTAL SECTIONS AT RAIL POSTS
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"

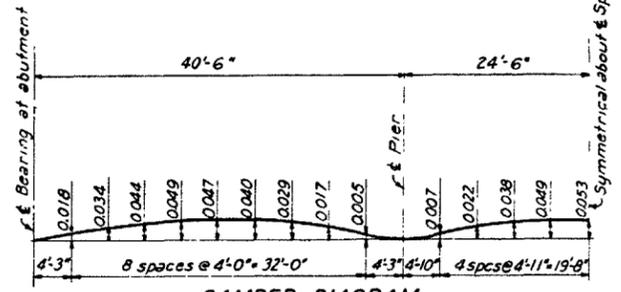


SECTION D-D
Scale: 1/2" = 1'-0"



SECTION E-E
Scale: 1/2" = 1'-0"

NOTES:
FORMS: Forms for curb and railing shall be lined with plywood, or similar material, in sections having no horizontal joints. Vertical joints shall be spaced not closer than 8'-0" on centers.
METAL RAILING: The metal railing shall be completely assembled and adjusted to correct line and grade before any portion of the concrete railing is poured.
POURING: The roadway slabs in the end spans shall be poured first. The slab in these spans shall be poured simultaneously, beginning at the ends of the bridge and progressing at a uniform rate in both spans, toward the center of the bridge. No railing shall be constructed until the slab and curb have been poured for the entire bridge. The railing shall be poured in the same sequence as the slab.
EXPANSION DEVICES: End expansion devices shall be adjusted to fit throughout and shall be rigidly supported in correct position while the concrete is placed.
REINFORCING STEEL: All dimensions relative to reinforcing steel are to centers of bars. For Schedule and Bending Details see Sheet 58H107.
 For additional notes and Summary of Quantities see Sheet 58H102.



CAMBER DIAGRAM
(Vertical ordinates in feet)
Not to scale

Note: The forms for the top of the curbs shall be set higher than the theoretical elevations by the distances shown in the above camber diagram to allow for the deflection of the steel beams under the load of the concrete. No camber need be provided in setting forms for the top of the concrete railing. The pipe rail and the top of the concrete railing shall be parallel to the finished grade line.

REV	DATE	BY	CHKD	SUPV	RESP	DESCR	RECD
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2							
3							
4							
5							

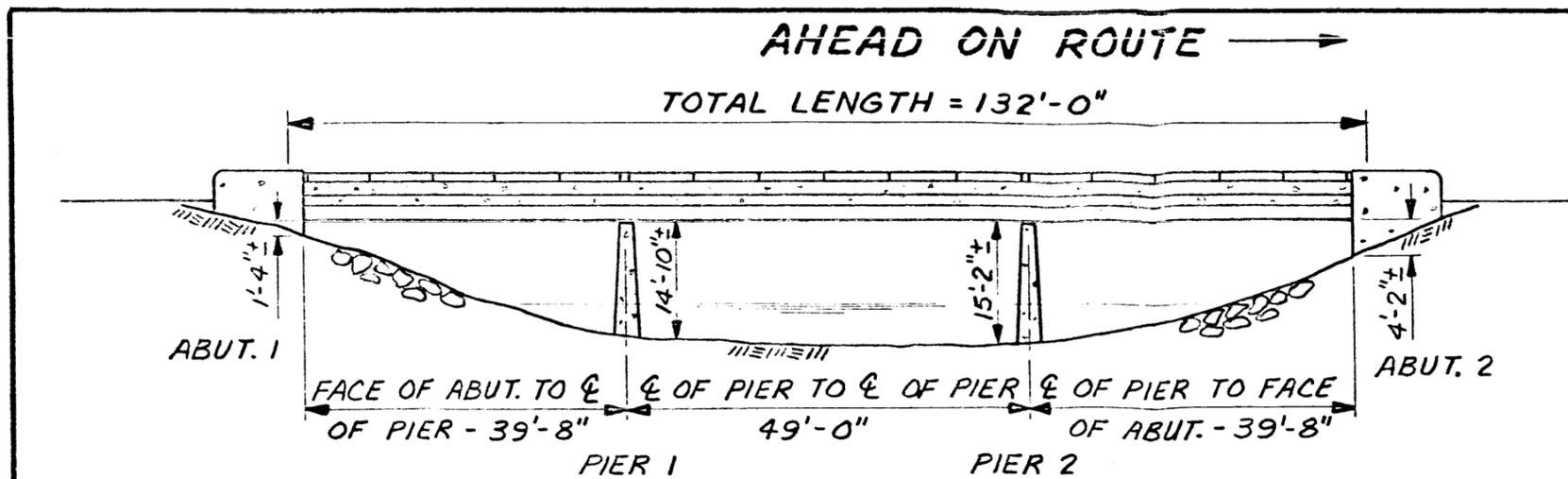
PROJECT 07302-4058.02
 BLYTHE'S FERRY ROAD
 AT SOUTH MOUSE CREEK

**SOUTH MOUSE CREEK BRIDGE
 ROADWAY DECK AND RAILINGS**

CHICKAMAUGA PROJECT
 TENNESSEE VALLEY AUTHORITY
 DESIGN DEPARTMENT

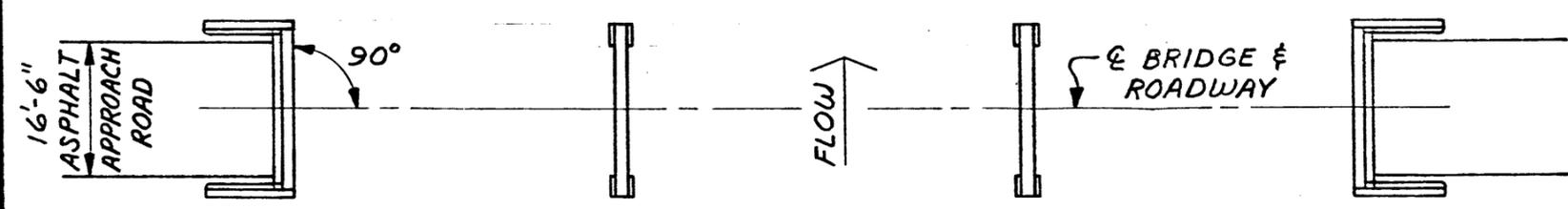
SUBMITTED	RECOMMENDED	APPROVED
Evans H. Hatcher	Frank W. W. W. W.	H. H. Hatcher
CHATTANOOGA	4-28-39	7 HR 5
		58H106

RECORD DRAWING AS CONSTRUCTED
 Evans H. Hatcher 4-1-1940

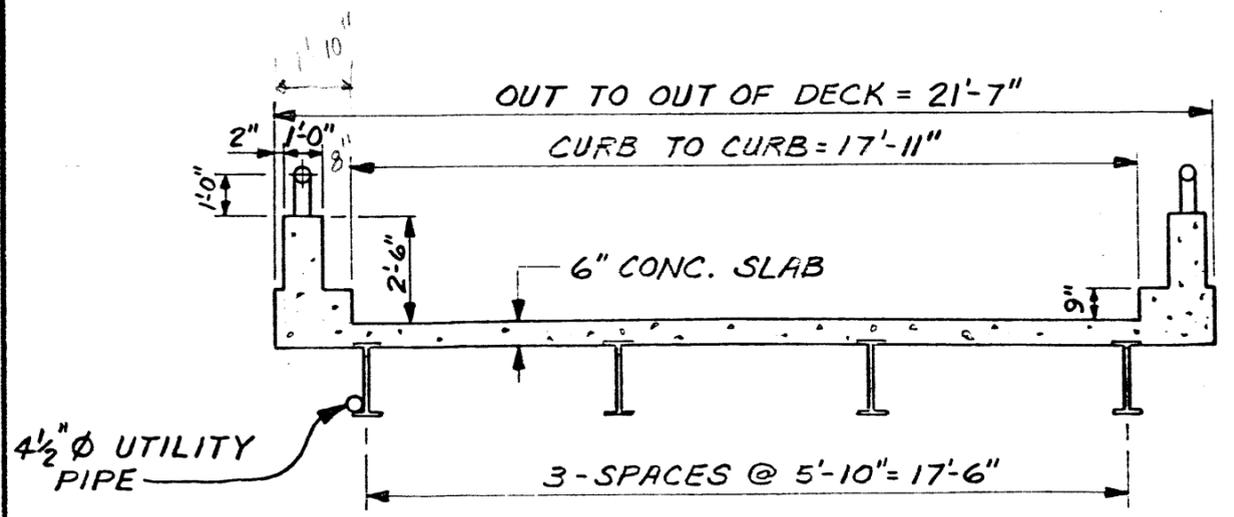


NOTE:
DRAWINGS PREPARED FROM NOTES
TAKEN ON FIELD INSPECTION APRIL 3, 1980.

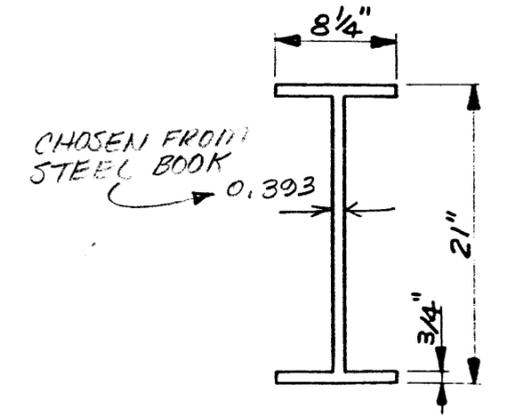
ELEVATION



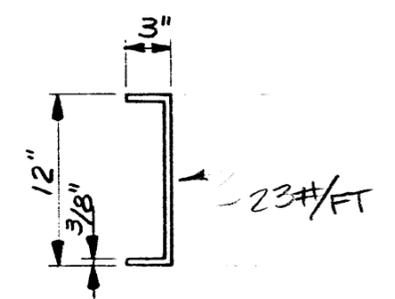
PLAN



TYPICAL DECK SECTION
(LOOKING AHEAD)



BEAM DETAIL



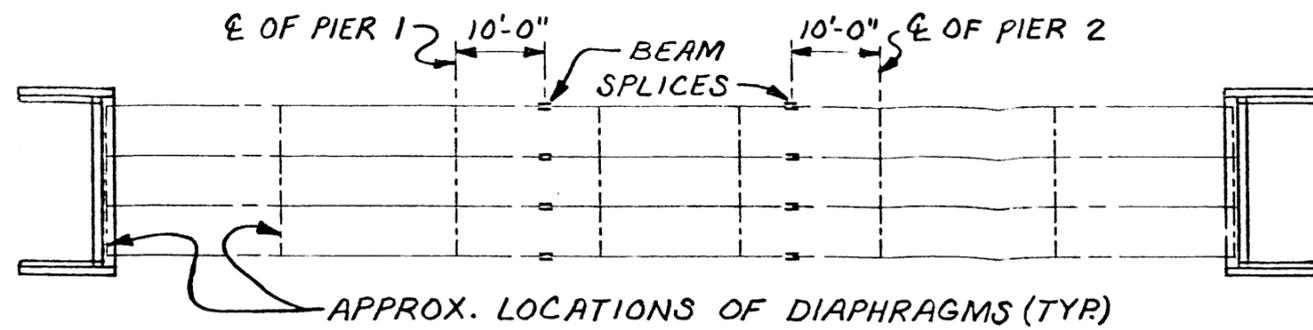
DIAPHRAGM DETAIL

TVA DESIGN

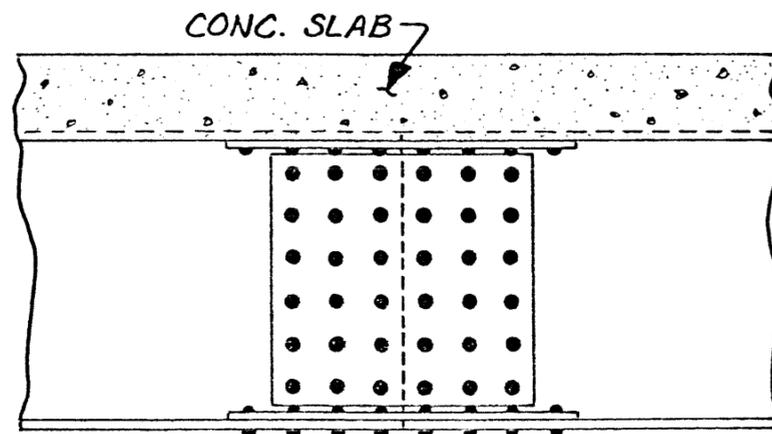
LAYOUT OF BRIDGE

OVER MOUSE CREEK
BRADLEY COUNTY
06011850001

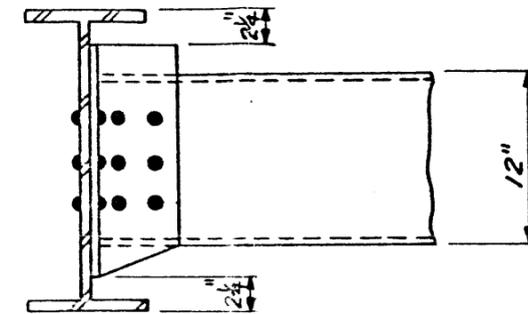
YEAR OF
CONSTRUCTION
1939
(PLAQUE)



FRAMING PLAN



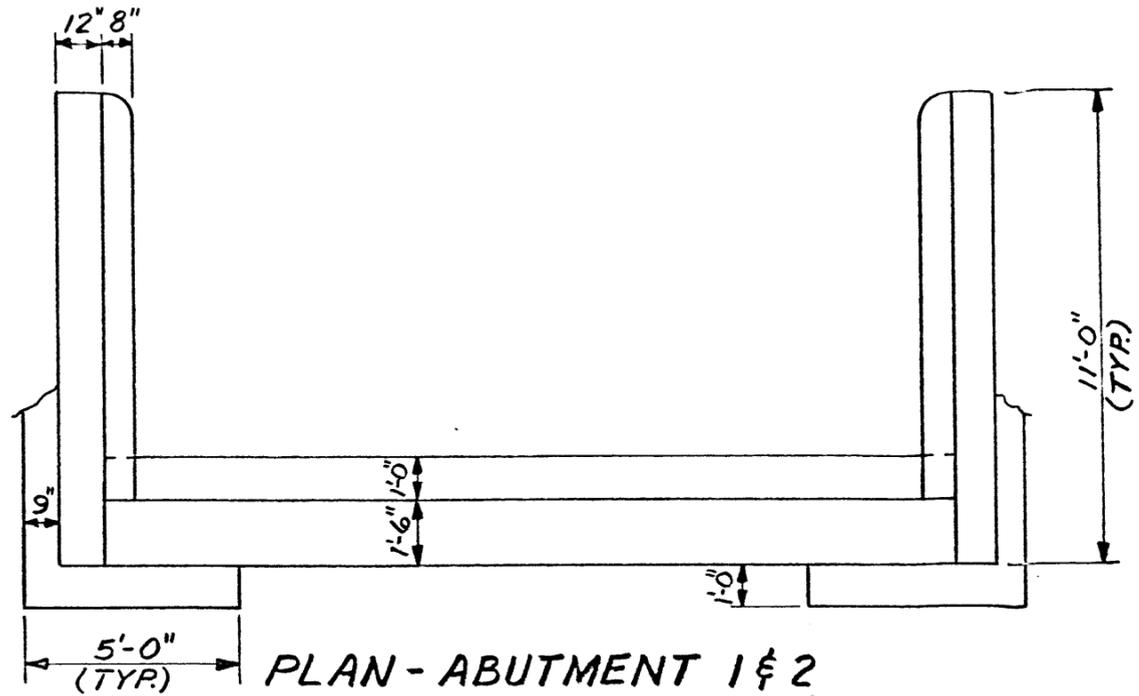
BEAM SPLICE DETAIL



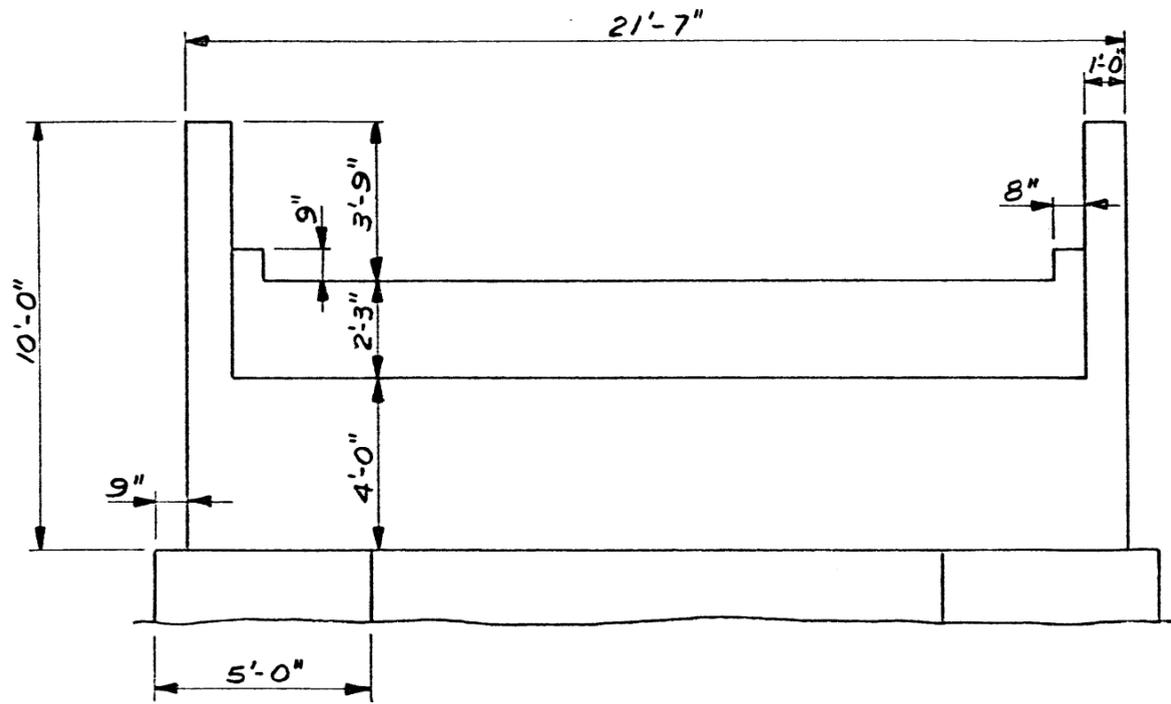
DIAPHRAGM CONNECTION DETAIL

SUPERSTRUCTURE DETAILS

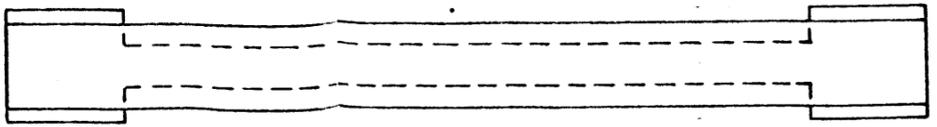
BRIDGE NO. ~~66-2278-1-02~~ 06011850001
 OVER MOUSE CREEK
 BRADLEY COUNTY



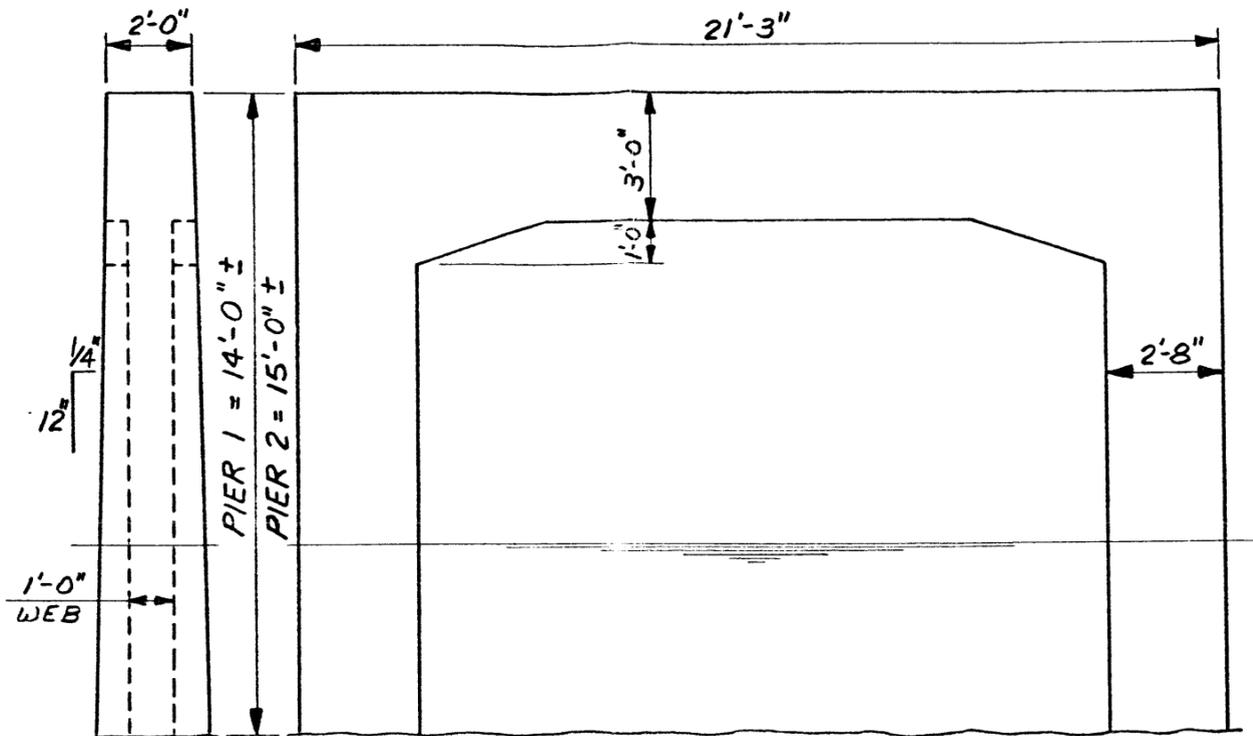
PLAN - ABUTMENT 1 & 2



ELEVATION



PLAN - PIER 1 & 2



ELEVATION

SUBSTRUCTURE DETAILS

BRIDGE NO. ~~66-2278-103~~ 06011850001
 OVER MOUSE CREEK
 BRADLEY COUNTY



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Travis Smith Travis Smith
2025.08.28 10:53:28 -05'00'

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	G2-G7

YEAR	PROJECT NO.	SHEET NO.
2025	BRZ-1185(4)	GEOTECH-SIGN1

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE
SHEET**

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGNSE\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G1

GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
GEOTECHNICAL INDEX.....	G1
GEOTECHNICAL NOTES AND TABULATED QUANTITIES SHEET	G2
GEOTECHNICAL BORING LAYOUT.....	G3, G5
GEOTECHNICAL BORING PROFILES	G4, G6
GEOTECHNICAL TYPICAL SECTIONS.....	G7

\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DGN SLECS\$\$\$\$\$

CELL BDRSG

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G2

DEFINITION OF EARTHWORK TERMS

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

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS.

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS.

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS.

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIALS A, B, AND C) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH Laterally AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

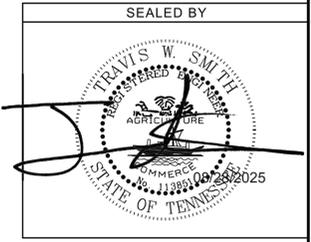
TABULATED GEOTECHNICAL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
① ② 203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	2856
① ② 203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	3514
① ② 303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	50
① ② 740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	SY	1380

FOOTNOTES:

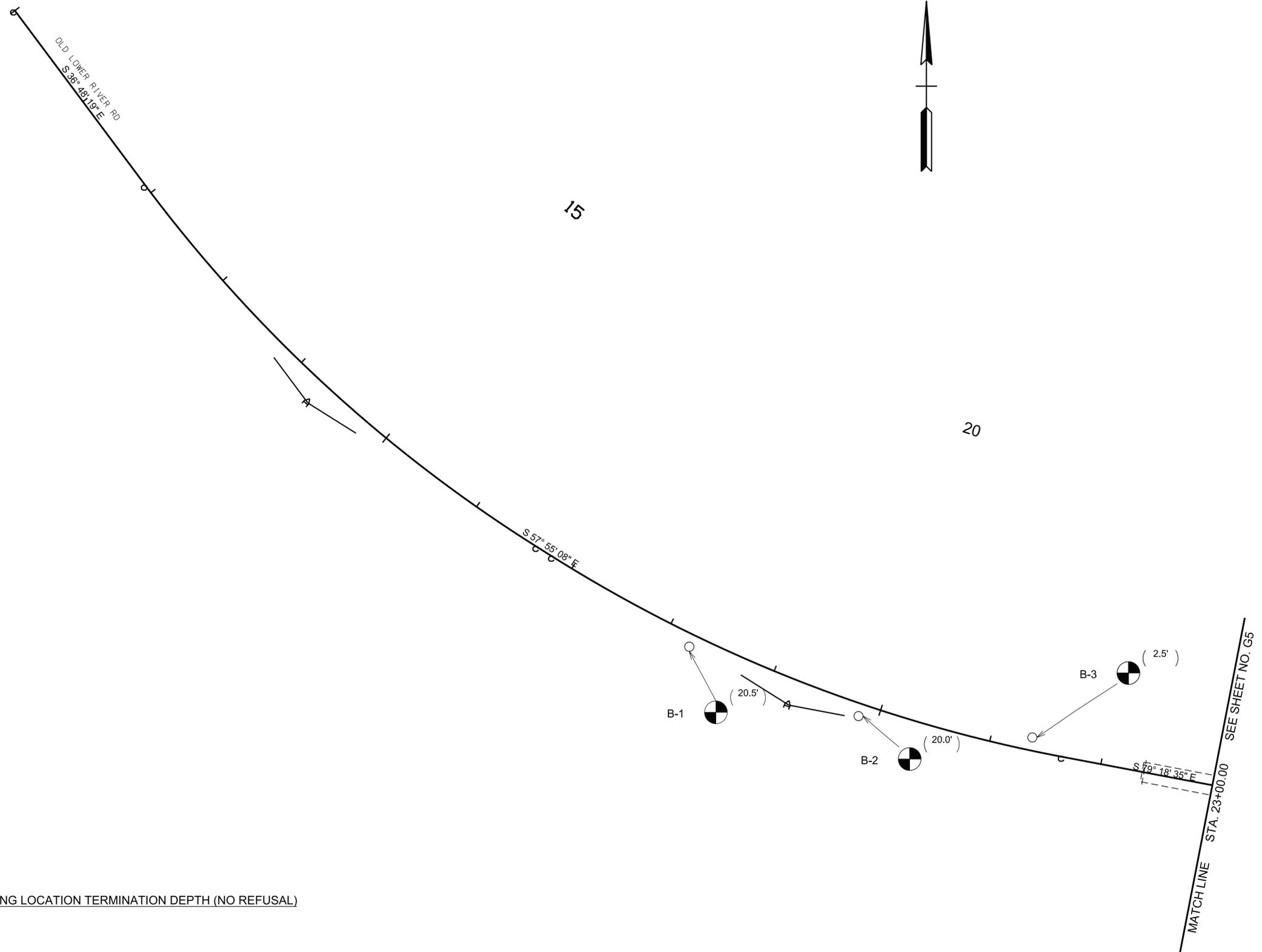
- ① THIS ITEM TO BE USED BETWEEN STATION 25+29 AND STATION 27+50 OR OTHERWISE AS DIRECTED BY ENGINEER FOR THE REPAIR OF THE SLIDE.
- ② FOR BIDDING PURPOSES, THESE QUANTITIES ARE INCLUDED IN THE SHEET 2 SERIES

CELL BDRSG
 \$\$\$\$\$\$ TIME\$\$\$\$\$\$
 \$\$\$\$DGN SDEC\$\$\$\$\$\$



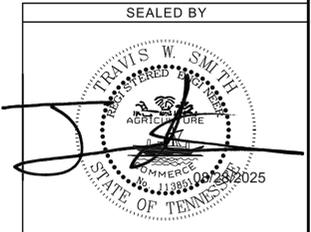
STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION
**GEOTECHNICAL
 NOTES &
 TAB. QTYS.**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G3



LEGEND

B-1 (24.5') } BORING LOCATION TERMINATION DEPTH (NO REFUSAL)



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

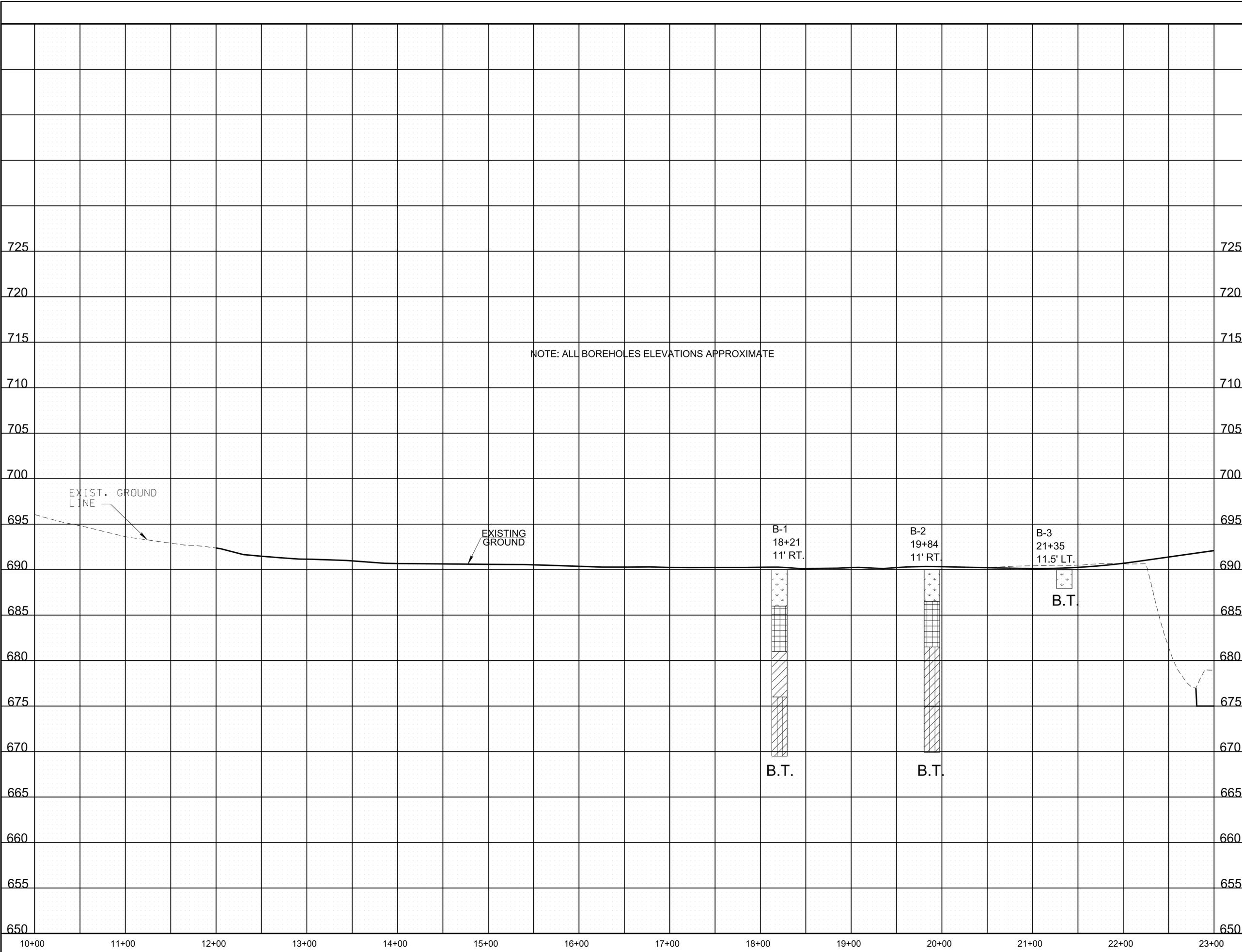
**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**GEOTECHNICAL
BORING
LAYOUT**

CELL BDR2ND

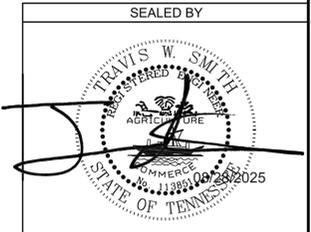
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGNSECS\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G4



LEGEND

-  TOPSOIL
 -  CLAY (TYPE A MATERIAL)
 -  FILL (TYPE A MATERIAL)
 -  CLAY AND SILTY (TYPE A MATERIAL)
- TYPE MATERIAL-SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T.= BORING TERMINATED



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**GEOTECHNICAL
BORING
PROFILE**

CELL GRIDSHIT
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G5

35

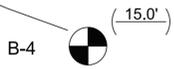
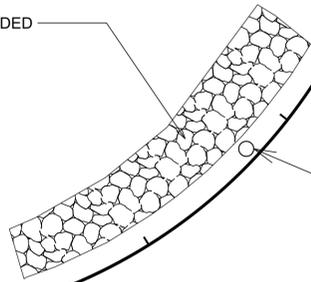


30

25

MATCH LINE STA. 23+00 SEE SHEET NO. G3

APPROXIMATE LIMITS OF GRADED SOLID ROCK BUTTRESS



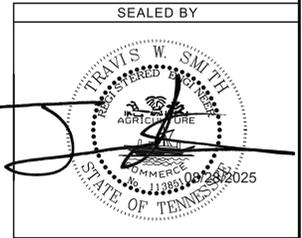
(15.0')

N 25° 50' 24" E
OLD LOWER RIVER ROAD LOWER RIVER RD

S 79° 18' 35" E

LEGEND

B-1 (24.5') } BORING LOCATION WITH DEPTH TO REFUSAL



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

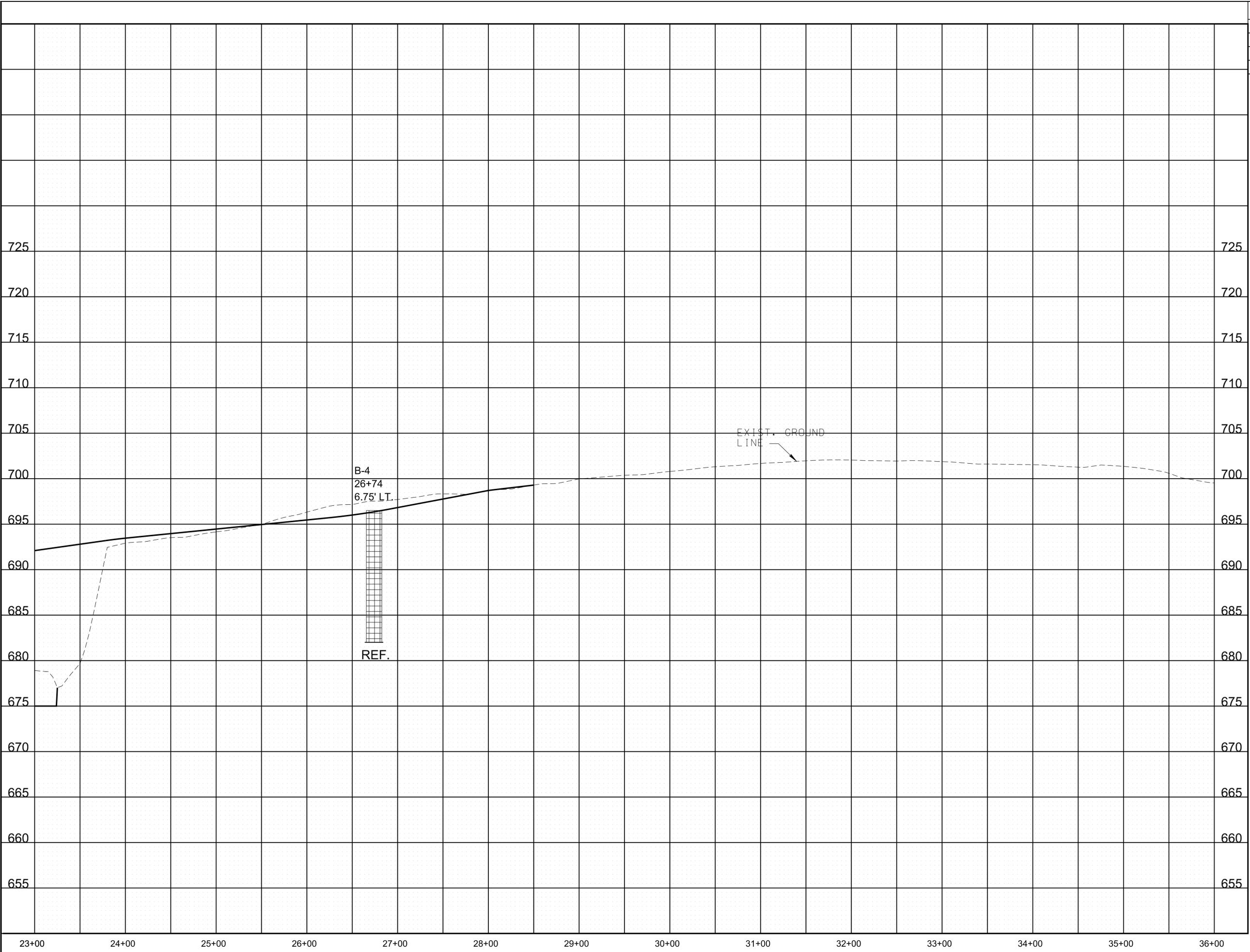
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**GEOTECHNICAL
BORING
LAYOUT**

CELL BDR2ND

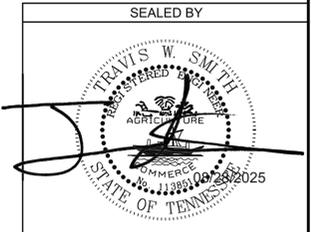
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\$\$\$\$\$DGN\$PEC\$\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G6



LEGEND

-  ASPHALT AND BASE STONE
 -  FILL (TYPE A MATERIAL)
 -  LIMESTONE (TYPE B MATERIAL)
- TYPE MATERIAL-SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
REF.- AUGER REFUSAL



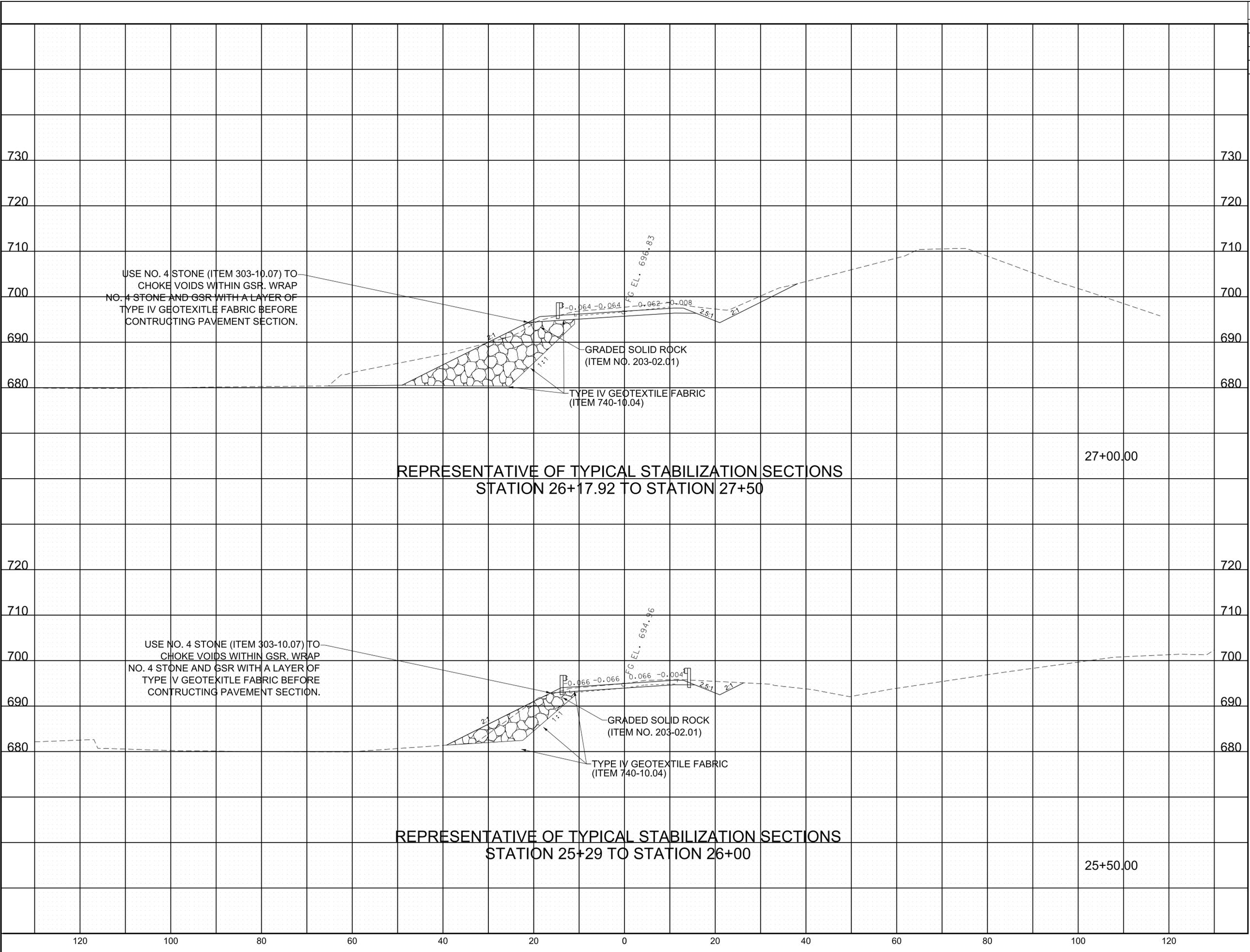
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**GEOTECHNICAL
BORING
PROFILE**

CELL GRDSHT
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	BRZ-1185(4)	G7



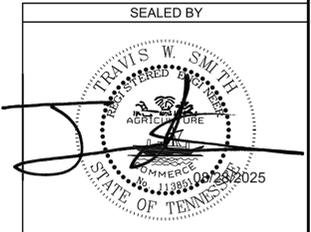
REPRESENTATIVE OF TYPICAL STABILIZATION SECTIONS
STATION 26+17.92 TO STATION 27+50

27+00.00

REPRESENTATIVE OF TYPICAL STABILIZATION SECTIONS
STATION 25+29 TO STATION 26+00

25+50.00

CELL GRDSHT
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL
TYPICAL SECTIONS

SWPPP INDEX OF SHEETS

DESCRIPTION	SHT.
1. SWPPP REQUIREMENTS (5.0.)	1
2. SITE DESCRIPTION (5.5.1.)	1
3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)	1
4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	1-2
5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)	2-3
6. FLOCCULANTS (3.5.3.1.b)	3
7. UTILITY RELOCATION	3-4
8. MAINTENANCE AND INSPECTION	4
9. SITE ASSESSMENTS (5.5.3.8.)	4
10. STORMWATER MANAGEMENT (5.5.3.11.h)	4-5
11. NON-STORMWATER DISCHARGES (5.5.3.12.)	5
12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)	5-6
13. RECORD-KEEPING	6-7
14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)	7
15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)	7
16. ENVIRONMENTAL PERMITS (1.5.2.)	7
17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)	8

NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

- SWPPP REQUIREMENTS (5.0.)**
 - 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
 - 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
 - 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)
- SITE DESCRIPTION (5.5.1.)**
 - PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET
 - TOTAL PROJECT AREA (5.5.1.b): 3.813 ACRES
 - TOTAL AREA TO BE DISTURBED (5.5.1.b): 2.155 ACRES
 - PROJECT DESCRIPTION (5.5.1.a):

TITLE: OLD LOWER RIVER RD BRIDGE OVER SOUTH MOUSE CREEK (BRIDGE REPLACEMENT)
COUNTY: BRADLEY
PIN: 124677.00
 - SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET
 - DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) 6, 7, 11, 11A, 13, 13A DRAINAGE MAP SHEET(S) 6, 7, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.
 - 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): _____
 - NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
 - 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)
Cotaco silt loam	C	0.37	1.2
Etowah silt loam, eroded rolling phase	B	0.37	0.0
Greendale cherty silt loam	B	0.24	0.8
Gullied land, shale soil materials	-	-	1.7
Holston loam, 5 to 12 percent slopes, moderately eroded	B	0.37	0.6
Leadvale silt loam, eroded rolling phase	C/D	0.43	1.2
Litz shaly silt loam, eroded hilly phase	C	0.24	0.4
Litz shaly silt loam, eroded rolling phase	C	0.24	0.3
Litz shaly silt loam, eroded undulating phase	C	0.24	1.3
Prader silt loam (melvin)	B/D	0.43	5.0
Sequoia silty clay loam, eroded rolling phase	C	0.37	0.8
Water	-	-	86.7

- 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
 - 2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? YES NO; AND
 - 2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? YES NO N/A (TDOT SP107L WILL BE APPLIED.)
- 2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS, EXIST PAVEMENT	0.008	0.72		0.9
PERVIOUS: GRASSY, EARTH, SHOULDER	0.003	0.28		0.9
TOTAL	0.011	100		
WEIGHTED CURVE NUMBER OR C-FACTOR =				

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS, PAVEMENT	0.008	0.72		0.9
PERVIOUS: RIP RAP, EARTH, SHOULDER	0.03	0.8		0.9
WEIGHTED CURVE NUMBER OR C-FACTOR =				

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 11, 11A, 12, 12A, 13, 13A)
- 3.2. INSTALL STABILIZED CONSTRUCTION EXITS.
- 3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.
- 3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- 3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.)
- 3.6. REMOVE AND STORE TOPSOIL.
- 3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED).
- 3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.
- 3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.
- 3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.
- 3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.
- 3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.
- 3.13. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)
- 3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.
- 3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION

- 4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)
 - 4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? YES NO
IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.YES
 - 4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):
 - 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
 - EXCEPTIONAL TENNESSEE WATERS (ETW)
 - 4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	S. MOUSE CREEK	NO	NO	YES	YES
STR-2	S. MOUSE CREEK	YES	NO	YES	YES

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)

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

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

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.i, 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 11A, 12A, 13A 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. 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) _____.

4.5. 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

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- 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
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 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 _____ (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.

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- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (5.5.3.9.)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):
 - 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
 - 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
 - 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
 - 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE

THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

- 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (5.5.1.f).
- 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
 - 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
 - 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
 - 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).
 - 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).
 - 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").
 - 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).
 - 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
 - 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
 - 8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).
- 8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING

RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

- 8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)
 - 8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).
 - 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).
 - 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
 - 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.
 - 8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
 - 8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER 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): CLEARING & GRUBBING, SODS SLOPES, SILT FENCE, & CROSS DRAINS, SEDIMENT TUBES, ROCK CHECK DAM, RIP RAPS
- 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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**STORMWATER
POLLUTION
PREVENTION
PLAN**

- PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- MINERAL AGGREGATES, ASPHALT
- EARTH
- LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- ROCK
- CURING COMPOUND
- EXPLOSIVES
- OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

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

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

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

10.6. SANITARY WASTE (5.5.3.7.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

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

- FERTILIZERS AND LIME
- PESTICIDES AND/OR HERBICIDES
- DIESEL AND GASOLINE
- MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. **NON-STORMWATER DISCHARGES (5.5.3.12.)**

11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT (CHECK ALL THAT APPLY):

- DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.
- WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.
- WATER USED TO CONTROL DUST. (3.5.3.1.n)
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.
- UNCONTAMINATED GROUNDWATER OR SPRING WATER.
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
- OTHER: _____

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

11.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (5.5.1.g)?

- YES NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: _____

12. **SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)**

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE 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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2020	06946-1435-94	
PS&E	2025	BRZ-1185(4)	S-6

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

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**STORMWATER
POLLUTION
PREVENTION
PLAN**

- 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.

DATE _____

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.

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):

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: 2024.02.26 15:33:30 -05'00'

 AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)
 SCOTT MEDLIN

 PRINTED NAME
 MANAGER

 TITLE
 26 FEB 2024

 DATE

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.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	BRZ-1185(4)	U1-2

06946-3435-94
 BEGIN PROJECT NO. BRZ-1185(4) CONSTRUCTION
 STA. 12+00.00
 N 356247.6963 E 2325529.2335

06946-2435-94
 BEGIN PROJECT NO. BRZ-1185(4) R.O.W.
 STA. 12+00.00
 N 356247.6963 E 2325529.2335

LEGEND

POWER LINES ON CROSSARMS 

CENTER POWER LINE WITH 2 COMMUNICATIONS LINES BELOW IT 



BEGIN RESURFACING
 STA. 12+00.00
 TO STA. 20+27.28

BEGIN P.V.M.T. TRANSITION
 MATCH EXISTING
 STA. 12+00.00

END P.V.M.T. TRANSITION
 77' LANES
 STA. 12+50.00

BEGIN G.R.
 STA. 12+53.99

BEGIN G.R.
 STA. 14+03.99

BEGIN FULL DEPTH
 STA. 20+27.28
 TO STA. 28+00.00

BEGIN PROP. BRIDGE
 STA. 22+37.01

UTILITY
 REFERENCE
 PLANS

SEALED BY

COORDINATES ARE NAD 83(2011), ARE
 DATUM ADJUSTED BY THE FACTOR
 OF 1.00004 AND TIED TO THE TGRN.
 ALL ELEVATIONS ARE REFERENCED
 TO THE NAVD 1988 WITH GEOID 12B.

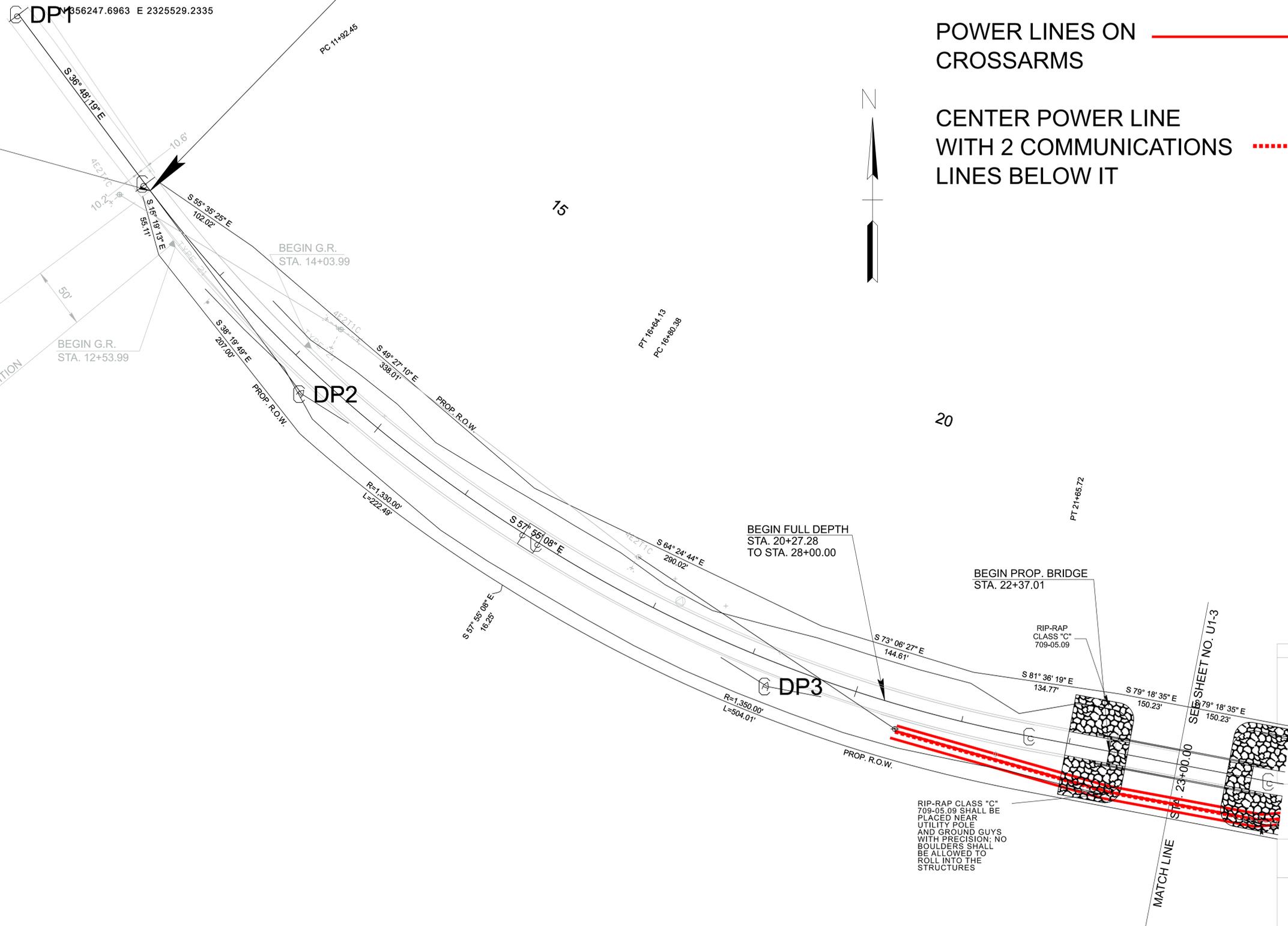
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

UTILITY
 REFERENCE

STA 13 + 00.00 TO
 STA 23 + 00.00

SCALE 1" = 50'

\$\$\$\$SYTIME\$\$\$\$
 \$\$\$DGN\$PE\$\$\$\$



RIP-RAP CLASS "C"
 709-05.09 SHALL BE
 PLACED NEAR
 UTILITY POLE
 AND GROUND GUYS
 WITH PRECISION; NO
 BOULDERS SHALL
 BE ALLOWED TO
 ROLL INTO THE
 STRUCTURES

SEE SHEET NO. U1-3
 MATCH LINE
 STA 23+00.00

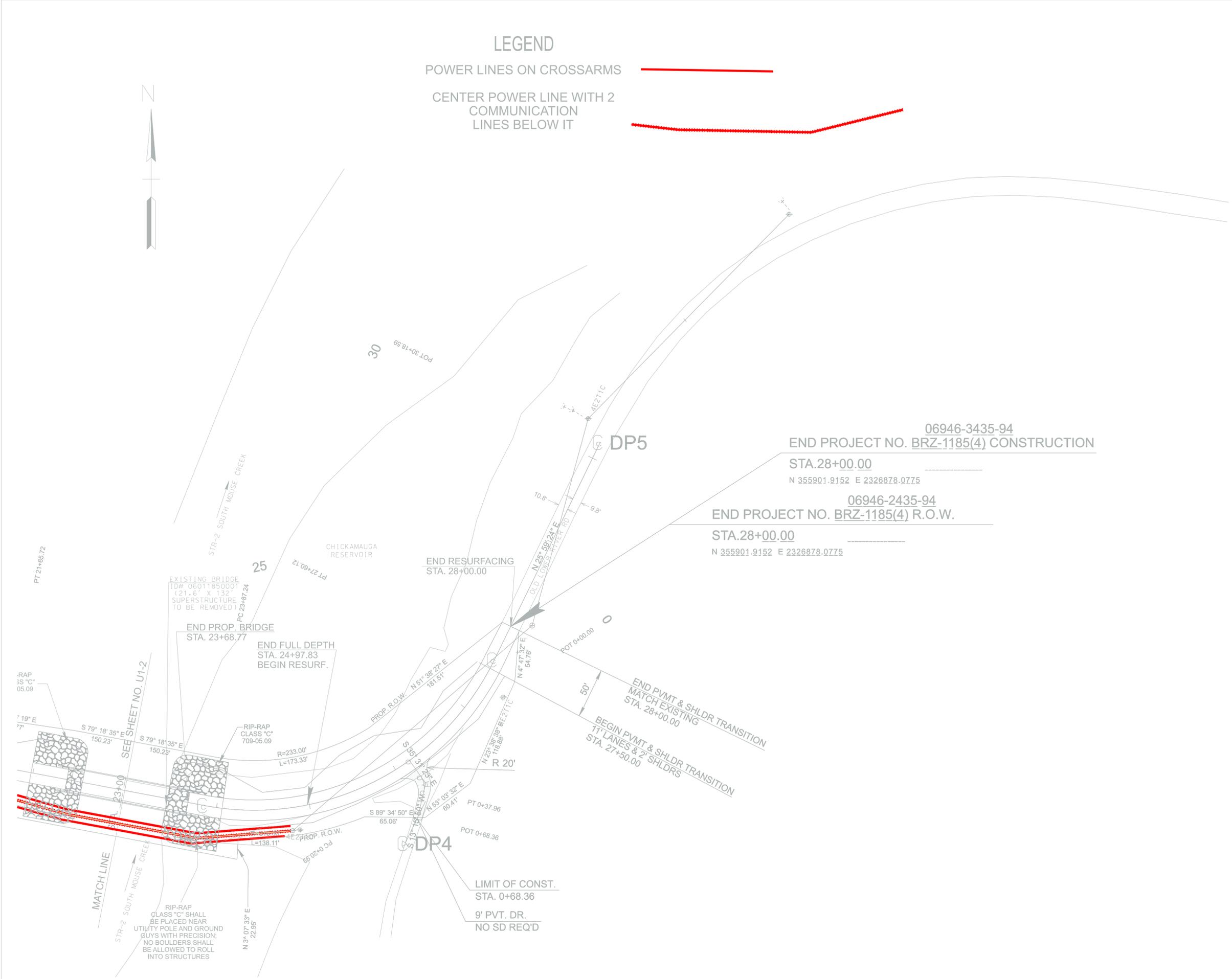
TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	BRZ-1185(4)	U1-3
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LEGEND

POWER LINES ON CROSSARMS



CENTER POWER LINE WITH 2
COMMUNICATION
LINES BELOW IT



06946-3435-94
END PROJECT NO. BRZ-1185(4) CONSTRUCTION

STA.28+00.00
N 355901.9152 E 2326878.0775

06946-2435-94
END PROJECT NO. BRZ-1185(4) R.O.W.

STA.28+00.00
N 355901.9152 E 2326878.0775

UTILITY
REFERENCE
DRAWING

SEALED BY

COORDINATES ARE NAD 83(2011), ARE
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OF 1.00004 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY
REFERENCE

STA.23+00.00 TO STA.28+00.00
SCALE: 1"= 50'

\$\$\$\$\$TIME\$\$\$\$\$
\$\$\$\$\$DGN\$PE\$\$\$\$\$
\$\$\$\$\$C\$\$\$\$\$