THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
STACY LYNN WEAVER
Digitally signed by STACY LYNN WEAVER
Date: 2026.07.21 10:34:39 -04'00'

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

TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE
KNOXVILE, TN 37914
STACY WEAVER, P.E. NO. 111922

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	ROADWAY-SIGN1
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ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD STRUCTURE AND TRAFFIC DESIGN DRAWINGS	1A3
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2, 2-1
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TYICAL SECTIONS	2B1, 2B2
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
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RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
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CULVERT SECTION	8
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS	9-12
ROADWAY CROSS SECTIONS	14-22
SIDE ROAD CROSS SECTIONS	23–26
TRAFFIC CONTROL PLANS	T1-T7

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
Bryan Bartnik
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TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE
KNOXVILE, TN 37914
BRYAN BARTNIK, P.E. NO. 119211

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	ROADWAY-SIGN1
SIGN SCHEDULE SHEET	13

YEAR	PROJECT NO.	SHEET NO.
2026	BR-STP-33(126)	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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Index Of Sheets

SEE SHEET NO. 1A FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

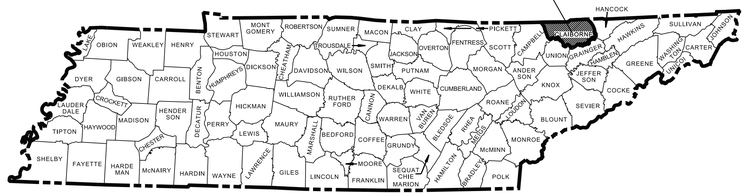
DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X
RAILROAD INVOLEMENT	YES	NO X

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	BR-STP-33(126)	
STATE PROJ. NO.	13004-3216-94	

CLAIBORNE COUNTY

SR-33: BRIDGE OVER SOUTH FORK
SYCAMORE CREEK, LM 20.56 (IA)

S.R.33
CLAIBORNE CO.
BRIDGE ID. # 13SR0330009



PS&E

GRADE, DRAIN, BASE, PAVE, GUARDRAIL, AND BRIDGE REPLACEMENT

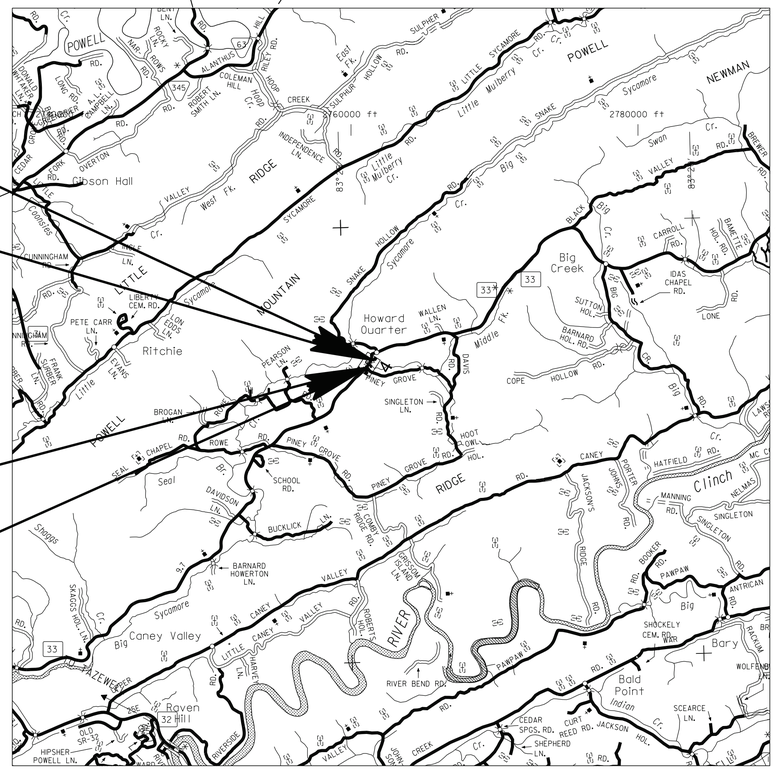
STATE HIGHWAY NO. 33 F.A.H.S. NO. N/A

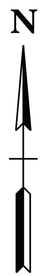
13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723 E 2729998.7773

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307





SCALE: 1"= 5280'

0 1 2 3 MILES

NO EXCLUSIONS

R.O.W. LENGTH	0.132 MILES
ROADWAY LENGTH	0.119 MILES
BRIDGE LENGTH	0.013 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.132 MILES

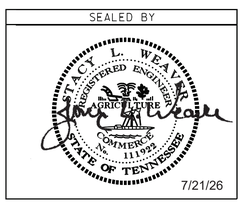
▲ Not included in the project length (Non Riding Surface).

S.R.33 (05-21-24)

SURVEY 07-20-18	TRAFFIC DATA	
UPDATED 09-04-18	ADT (2026)	880
UPDATED 12-06-18	ADT (2046)	1120
UPDATED 04-26-19	DHV (2046)	134
UPDATED 05-21-24	D	65 - 35
UPDATED 11-15-24	T (ADT)	6 %
	T (DHV)	4 %
	V	35 MPH

COORDINATES ARE NAD 83(1995), 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.

SEALED BY



7/21/26

APPROVED:

SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:

WILL REID, COMMISSIONER

SPECIAL NOTES

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

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

TDOT PROJECT MANAGER: TRACIE WIDNER

DESIGNER : LOUNA KOEUT CHECKED BY : AARON HAYS, P.E.

P.E. NO. 13004-1216-94 (DESIGN)

PIN NO. 124242.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	1A

ROADWAY INDEX

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TRAFFIC CONTROL PLANS	T1 – T7
BRIDGE PLANS	B-1
GEOTECHNICAL PLANS	G-1
NATURAL STREAM DESIGN PLANS	NS-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1
UTILITIES PLANS	U1–1

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

STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-16-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	01-30-26	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-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
RD-L-8	02-20-20	STANDARD LEGEND FOR NATURAL STREAM DESIGN

STANDARD ROADWAY DRAWINGS

STANDARDS ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
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-1		DESIGN STANDARDS FOR LOW VOLUME ROADS
RD11-TS-3		DESIGN STANDARD FOR ARTERIAL HIGHWAYS (2-LANE)
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS

PIPE CULVERTS, ENDWALLS, AND ENERGY DISSIPATERS

DWG.	REV.	DESCRIPTION
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	03-01-23	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-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-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-48A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-48B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-SEW-1A	01-30-26	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)

ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

DWG.	REV.	DESCRIPTION
RP-R-1	04-21-25	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS
RP-R-1A	04-21-25	STANDARD RAMP DETAILS FOR LOW VOLUME RURAL ROADWAYS
S-F-1	03-01-23	HIGH VISIBILITY FENCE

SAFETY DESIGN AND GUARDRAILS

DWG.	REV.	DESCRIPTION
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	04-30-26	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-7	04-30-26	SAFETY PLAN HARDWARE PLACEMENT AT INTERSECTIONS
S-GR31-1	10-31-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRC-4	10-31-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
S-CPW-1		CURVED PARAPET WALL ≤ 40 M.P.H.
S-GRS-2	01-28-22	SPECIAL CASE GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-5		SPECIAL CASE WEAK-POST GUARDRAIL ATTACHMENT TO CULVERT
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE

EROSION PREVENTION AND SEDIMENT CONTROL

DWG.	REV.	DESCRIPTION
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	05-04-22	TEMPORARY DIVERSION CHANNEL

NATURAL STREAM DESIGN

DWG.	REV.	DESCRIPTION
D-NSD-30	05-01-20	SUBSTRATE RESTORATION
D-NSD-33	05-01-20	COIR FIBER EROSION CONTROL BLANKET AND COIR FIBER ROLLS

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
NUMBER
1119
STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
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-16	07-30-25	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-20	07-30-25	SIGN DETAILS
T-S-23A	07-30-25	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-23C	07-30-25	BREAKWAY POST SIGN SUPPORTS
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
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-32	03-26-25	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-33	03-26-25	TRAFFIC CONTROL PLAN FOR CLOSE INTERSECTION CONDITIONS USING TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	03-26-25	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	03-26-25	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB1	03-26-25	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2A	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	07-22-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
STANDARD STRUCTURE DRAWINGS		
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	1A3

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD STRUCTURE AND TRAFFIC DESIGN DRAWINGS

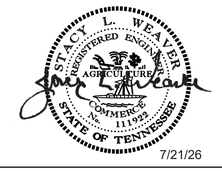
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	1B
PS&E	2026	BR-STP-33(126)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ001	ENVIRONMENTAL DIVISION, HAZARD MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS COMPLETED ON BRIDGE NO. 13SR0330009, SR-33 OVER SOUTH FORK SYCAMORE CREEK LM 20.56 (10-06022-02.66). 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 (APRIL 1, 2026) SECTIONS 107.08 D AND 202.03).	BRIDGE NO. 13SR0330009

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7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2
PS&E	2026	BR-STP-33(126)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 13004-3216-94
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-01.13	REMOVAL OF PIPE (EX. 18" CMP, STA. 98+93.54 TO 101+20.00)	L.F.	54
	202-01.14	REMOVAL OF PIPE (EX. 24" CMP, STA. 20+21.05)	L.F.	20
	202-04.01	REMOVAL OF STRUCTURES (CB1, STA. 100+19)	LS	1
(8)(9)(32)	203-01.07	RD & DRNG EXCV (ACID PRODUCING- OFF SITE DISPOSAL)	C.Y.	2602
(1)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	678
	203-06	WATER	M.G.	2
(30)	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	283
(12)	203-20.01	CHANNEL SUBSTRATE	C.Y.	25
(20)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	47
(27)	208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	0.2
(1)(2)	209-05	SEDIMENT REMOVAL	C.Y.	54
(1)(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	592
(1)(2)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(1)(2)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	2
(3)(21)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	118
(25)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1067
(1)(2)(24)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	81
(33)	303-10.04	MINERAL AGGREGATE (SIZE 57)	TON	329
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	36
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	48
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	18
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	120
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	0.2
(11)	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	102
(6)	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	90
(6)	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	163
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	8
	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	4
	705-01.04	METAL BEAM GUARD FENCE	L.F.	70
	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	244
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	1
	705-06.26	THRIE BEAM BRIDGE TRANSITION MASH TL-2	EACH	1
	706-06.03	RADIUS RAIL	L.F.	32
	705-06.11	GR TERMINAL (IN-INLINE) MASH TL3	EACH	1
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2
	705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH	1
	706-01	GUARDRAIL REMOVED	L.F.	401
	706-10.26	ROUNDED END ELEMENT	EACH	25
(1)(2)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	660
(2)(7)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
(2)(16)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	808
(15)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	443
	712-01	TRAFFIC CONTROL	LS	1
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	330
(13)	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	120
(26)	712-02.60	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	6
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	52
	712-04.50	BARRIER RAIL DELINEATOR	EACH	10
(3)	712-06	SIGNS (CONSTRUCTION)	S.F.	761
(18)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	24
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	24
	712-09.08	REMOVABLE PAVEMENT MARKING (6" line)	L.F.	1036
	712-09.31	REMOVABLE BLACK-OUT TAPE (8IN)	L.F.	1036
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	99
	713-11.21	P POST SLIP BASE	EACH	2
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	3
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	18
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 13004-3216-94
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
	716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	6
(22)	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	6
(5)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	15
(23)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.6
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	1250
(19)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0.6
	717-01	MOBILIZATION	LS	1
(31)	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1
	740-07.04	GEOGRID REINFORCEMENT TYPE 2	S.Y.	436
(1)(2)(24)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1339
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	218
(28)	801-01	SEEDING (WITH MULCH)	UNIT	1
(2)(28)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	31
(28)(29)	801-02	SEEDING (WITHOUT MULCH)	UNIT	31
(1)(2)(4)	801-03	WATER (SEEDING & SODDING)	M.G.	3
(1)(2)	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	1696

SEE SHEET 2-1 FOR FOOTNOTES

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
111923
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	2-1

FOOTNOTES

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(2) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(3) TO BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.
(4) INCLUDES 3 THOUSAND GALLONS FOR EROSION PREVENT AND SEDIMENT CONTROL.
(5) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC.
(6) THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE STANDARD DRAWING NO. D-PB-1 AND D-PB-2 FOR ADDITIONAL DETAILS.
(7) CLASS A-3 RIP-RAP TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
(8) INCLUDES 197 C.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL, 120 C.Y. FOR BRIDGE ABUTMENT. INCLUDES 914 CY FOR STR-2; SEE NATURAL STREAM DESIGN PLANS, NS-1 SERIES, FOR INFORMATION.
(9) SEE SPECIAL GRADING SPECIAL NOTES ON SHEET 2D
(10) NOT USED
(11) FOR COLD PLANING EXISTING TRAVEL LANES.
(12) TO BE USED FOR EMBEDDMENT AT 48" CULVERT PIPE ON PINEY CREEK RD.
(13) THIS ITEM SHALL MEET MASH TEST LEVEL 3 PERFORMANCE REQUIREMENTS. WHERE PERMANENT DEFLECTION BETWEEN THE BARRIER AND WORK SPACE IS NOT AVAILABLE, A BOX BEAM STIFFENER TUBE OR DROP ANCHOR PINS SHALL BE USED TO REDUCE DEFLECTION. PAYMENT FOR THE CONNECTION KEY, JOINT ASSEMBLY STEEL TUBE, PLATE ANCHOR PINS, AND ALL OTHER REQUIRED HARDWARE WILL BE INCLUDED IN THE UNIT PRICE.
(14) NOT USED
(15) TO BE USED AT BRIDGE ABUTMENT.
(16) INCLUDE 188 TON FOR SPECIAL DITCH AND 620 TON FOR INLET PROTECTION TYPE 1.
(17) NOT USED
(18) TO BE USED AS DIRECTED BY THE ENGINEER.
(19) CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION.
(20) TO BE USED TO FILL ABANDONED 18" RCP CROSS DRAIN PIPE AT APPROX. STA. 104+62.
(21) INCLUDES ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION AND MAINTENANCE, I.E. SANDBAGS, JERSEY BARRIER, RIPRAP, SHEET PILING AND/OR OTHER MATERIALS.
(22) ANY DAMAGE OCCURRED DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATIFACTION OF THE TDOT MANAGER.
(23) TO BE USED FOR TEMPORARY TRAFFIC CONTROL AND TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS.
(24) TO BE USED AT LOCATION OF SEDIMENT FILTER BAGS.
(25) THE QUANTITY OF 65 TON TO BE USED FOR DRIVEWAY AND 148 TON FOR BRIDGE ABUTMENT.
(26) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(27) INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK. SEE SHEET 2C, FINAL PAVEMENT MARKING, NOTE 6 FOR MORE INFORMATION.
(28) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
(29) INCLUDE 4 UNITS FOR SPECIAL DITCHES.
(30) INCLUDE 176 C.Y FOR S.R 33 AND 27 C.Y FOR PINEY GROVE RD.
(31) INCLUDE RDTS TO BE USED AT PRIVATE DRIVES.
(32) NO ACID-BASE TESTING OF THE SOIL MATERIAL IS REQUIRED. ALL EXCAVATED SOIL MATERIAL IS TO BE TREATED AS ACID PRODUCING MATERIALS AND HANDLED IN ACCORDANCE WITH SPECIAL PROVISION 107L.
(33) TO BE USED FOR BACKFILL UNDER PAVEMENT AT BRIDGE ENDS

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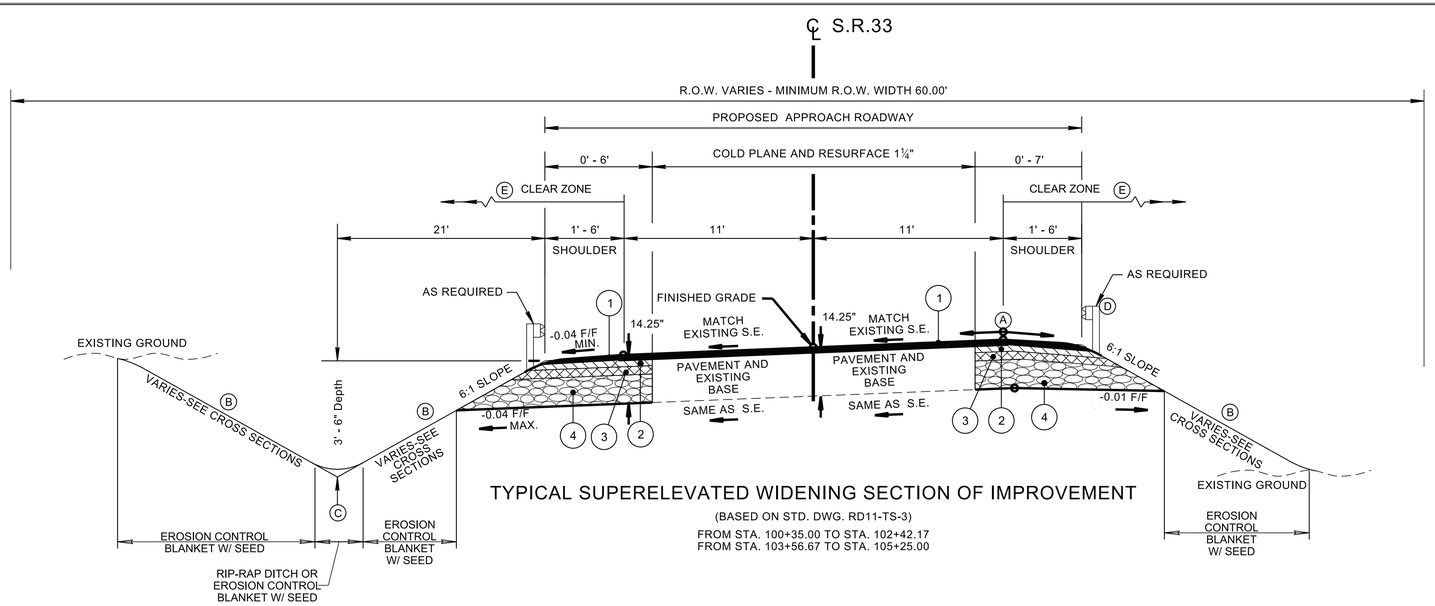
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2B
PS&E	2026	BR-STP-33(126)	2B



TYPICAL SUPERELEVATED WIDENING SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD11-TS-3)
FROM STA. 100+35.00 TO STA. 102+42.17
FROM STA. 103+56.67 TO STA. 105+25.00

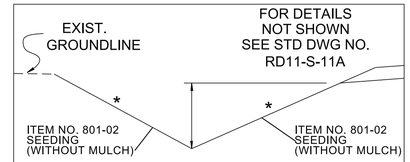
(A) THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

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

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

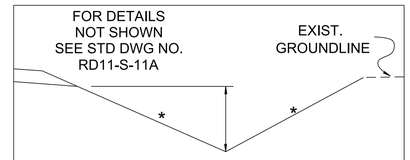
(D) SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

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



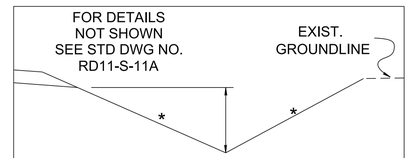
* VARIABLE SLOPE - SEE CROSS SECTIONS
S.R. 33 SPECIAL DITCH DETAIL
PROP. "V" BOTTOM SEEDED DITCH
LEFT STA. 99+06.08 (LT.) TO STA. 102+50.00 (LT.)

SEE TABULATED QUANTITIES SHEETS (2F-SERIES) FOR MORE INFORMATION



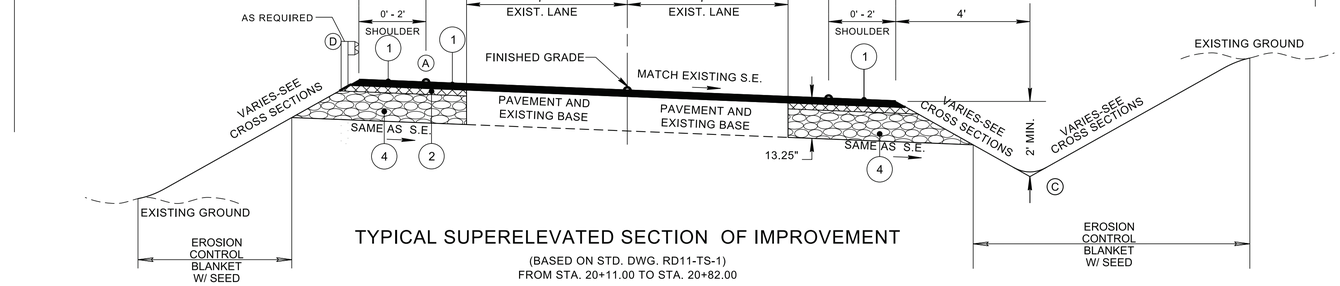
* VARIABLE SLOPE - SEE CROSS SECTIONS
S.E. 33 SPECIAL DITCH DETAIL
PROP. "V" BOTTOM SEEDED DITCH
RIGHT STA. 99+29.01 (RT.) TO STA. 99+74.42 (RT.)

SEE TABULATED QUANTITIES SHEETS (2F-SERIES) FOR MORE INFORMATION



* VARIABLE SLOPE - SEE CROSS SECTIONS
PINEYGROVE SPECIAL DITCH DETAIL
PROP. "V" BOTTOM SEEDED DITCH
RIGHT STA. 20+47.84 (RT.) TO STA. 21+50.00 (RT.)

SEE TABULATED QUANTITIES SHEETS (2F-SERIES) FOR MORE INFORMATION



TYPICAL SUPERELEVATED SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD11-TS-1)
FROM STA. 20+11.00 TO STA. 20+82.00

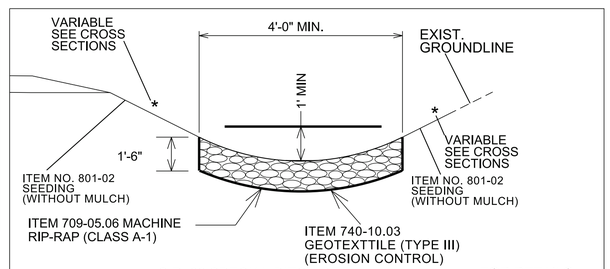
(A) THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL BE THE SAME IN ALL SITUATIONS.

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

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

PROPOSED PAVEMENT SCHEDULE

(1) ASPHALTIC CONCRETE SURFACE (HOT MIX) 411-01.10 ACS MIX (PG64-22) GRADE "D"@ 1.25"+ THICK (APPROX. 132.5 LB./S.Y.) 403-01. SEE SECTION 403.05 OF THE STANDARD SPECIFICATION FOR DETERMINING APPLICATION RATE IN THE FIELD	(3) BITUMINOUS PLANT MIX BASE (HOT MIX) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) GRADE "A" @ 3.00" + THICK (APPROX. 345 LB./S.Y.)
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) GRADE ("B-M2") @ 2.00" + THICK (APPROX. 226 LB./S.Y.) 403-01 SEE SECTION 403.05 OF THE STANDARD SPECIFICATION FOR DETERMINING APPLICATION RATE IN THE FIELD	(4) MINERAL AGGREGATE BASE 303-01 MINERAL AGGREGATE, TYPE A BASE GRADE "A"@ 8.00" + THICK (S.R. 33) AND FULL DEPTH (SHOULDERS) 303-01 MINERAL AGGREGATE, BASE GRADE "A" @ 8.00" + THICK (PINEY GROVE) AND FULL DEPTH (SHOULDERS)



S.R. 33 SPECIAL DITCH DETAIL
PROP. "V" BOTTOM RIP-RAP DITCH
STA. 103+31.50 TO STA. 105+25.00 (RT.)

FOR DETAILS NOT SHOWN SEE STD DWG NO. RD11-S-11A

SEE TABULATED QUANTITIES SHEETS (2F-SERIES) FOR MORE INFORMATION

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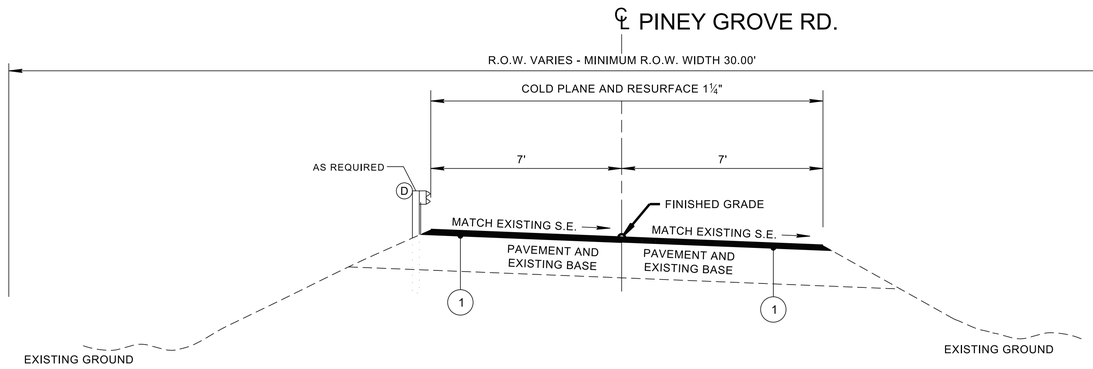
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

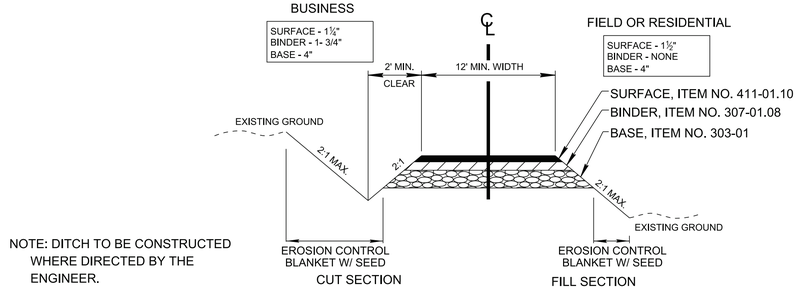
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2B1
PS&E	2026	BR-STP-33(126)	2B1



TYPICAL RESURFACING SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD11-TS-1)
FROM STA. 20+82.00 TO STA. 22+08.00



TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

SEE SHEET NO. 2B FOR PAVEMENT SCHEDULE

PAVEMENT & SHOULDER TRANSITIONS

ROADWAY	TYPE	BEGIN STA.	END STA.	BEGIN OFFSET (FT.)	END OFFSET (FT.)	LENGTH (FT.)
S.R. 33	LANE	100+35.00	101+35.00	-10.50	-11.00	100.00
S.R. 33	LANE	100+35.00	101+35.00	10.50	11.00	100.00
S.R. 33	SHOULDER	100+35.00	101+35.00	-11.13	-17.00	100.00
S.R. 33	SHOULDER	100+35.00	101+35.00	11.42	17.00	100.00
S.R. 33	SHOULDER	104+25.00	105+25.00	-17.00	-12.14	100.00
S.R. 33	SHOULDER	104+25.00	105+25.00	17.00	11.55	100.00
S.R. 33	LANE	104+25.00	105+25.00	-11.00	-10.53	100.00
S.R. 33	LANE	104+25.00	105+25.00	11.00	10.53	100.00
PINEY GROVE RD.	LANE	20+48.00	20+82.00	-11.00	-7.00	34.00
PINEY GROVE RD.	LANE	20+48.00	20+82.00	11.00	7.00	34.00
PINEY GROVE RD.	SHOULDER	20+48.00	20+82.00	-13.00	-7.00	34.00
PINEY GROVE RD.	SHOULDER	20+48.00	20+82.00	13.00	7.00	34.00

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AGRICULTURE
COMMENCE
No. 111922
STATE OF TENNESSEE

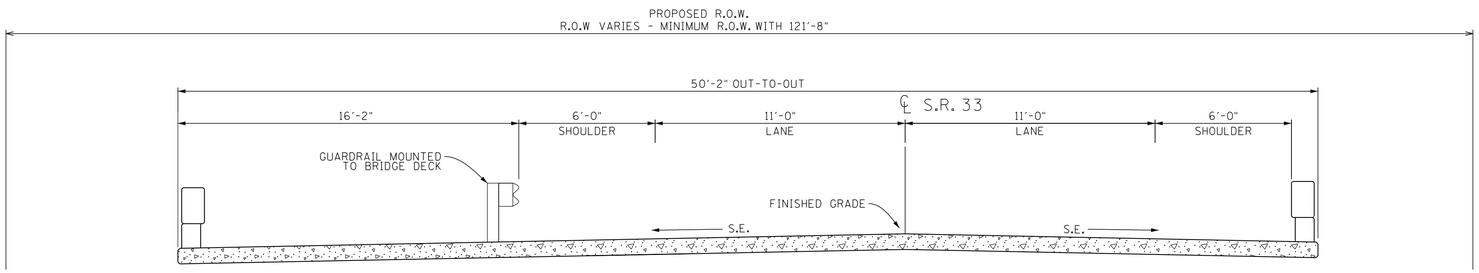
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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2B2
PS&E	2026	BR-STP-33(126)	2B2



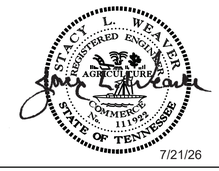
TYPICAL BRIDGE SECTION

STA. 102+62.67 TO STA. 103+32.67

PAVEMENT AT BRIDGE ENDS

STA. 102+42.17 TO 102+62.67
STA. 103+32.67 TO 103+56.67

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TYPICAL SECTIONS

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GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

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

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

GUARDRAIL

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

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

DRAINAGE

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

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

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

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

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

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

MISCELLANEOUS

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

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

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4” LINE), L.M.

FINAL PAVEMENT MARKING

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

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

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

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

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

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

(13) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(16) THE PAVEMENT MARKING ON THE LANE SHIFT FOR LANE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 713-09.31, AND 716-05.01 L.M.

(18) BEFORE OPENING THE LANE SHIFT 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.

SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

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

PAVEMENT

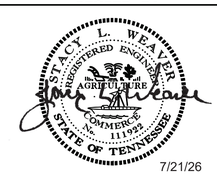
PAVING

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

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

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	2C1

GENERAL NOTES CONT'D

SIGNING

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE. ALL EXTRUDED PANEL SIGNS SHALL BE ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(2) FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.

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

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

(6) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC DESIGN DIVISION, SIGNING SECTION (TDOT.TrafficDesign.SignsandMarking@tn.gov) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.

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

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

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

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

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

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

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

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	2D

SPECIAL NOTES

GRADING

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

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

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

(5) EARTHWORK IS PAID FOR UNDER ITEM NO. 203-01.07, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

(6) THE 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. 203-01.07 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(1) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.08 REMOVABLE PAVEMENT MARKING (6" LINE), L.F. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE COVERED USING ITEM NO. 712-09.31, REMOVEABLE BLACK-OUT TAPE (8IN), L.F.

PAVEMENT

RESURFACING

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

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

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

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

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SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2E
PS&E	2026	BR-STP-33(126)	2E

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

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

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

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

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

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

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

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

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

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

SPECIES

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

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

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

PERMITS, PLANS & RECORDS

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

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

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

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

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

SUPPORT ACTIVITIES

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

STREAMS, WETLANDS & BUFFER ZONES

(19) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL, THE ECOLOGY SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM / CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

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

ECOLOGY

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

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

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

PROJECT COMMITMENTS

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

SCOPE OF WORK

(6) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT ON S.R. 33 AND PINEY GROVE ROAD TO LINE AND GRADES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. MANAGER.

(7) THIS PROJECT INCLUDES THE REMOVAL OF A 58-FOOT-LONG, 3-SPAN BRIDGE WITH AN OUT-TO-OUT WIDTH OF 48.3 FEET, AND THE CONSTRUCTION OF A NEW 70-FOOT-LONG, SINGLE-SPAN BRIDGE WITH AN OUT-TO-OUT WIDTH OF 50 FEET 2 INCHES OVER SYCAMORE CREEK (STR-1) ON S.R. 33. THE NEW BRIDGE WILL BE CONSTRUCTED IN PHASES TO ALLOW ONE-LANE TRAFFIC DURING CONSTRUCTION. ADDITIONALLY, THE PROJECT WILL REQUIRE INSPECTION BY TDOT AFTER EACH PHASE OF DEMOLITION AND PRIOR TO OPENING FOR ONE-LANE TRAFFIC.

(8) THIS PROJECT INVOLVES RELOCATING THE EXISTING STREAM (STR-2) CHANNEL AWAY FROM S.R. 33 AND CONNECTING IT TO THE PROPOSED 48-INCH PIPE STRUCTURE THAT WILL BE INSTALLED BENEATH PINEY GROVE ROAD. REFER TO THE STREAM DESIGN PLANS FOR ADDITIONAL DETAILS. SEE NATURAL STREAM DESIGN SHEET NS-1.

(9) THIS PROJECT INCLUDES THE APPLICATION OF EPSC DEVICES, SEEDING, PAVEMENT MARKING, SIGNING, GUARDRAILS, TRAFFIC CONTROL DEVICES, AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. MANAGER.

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
In the Name of the Commissioner of AGRICULTURE
STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	2F
PS&E	2026	BR-STP-33(126)	2F

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE		601	
SIDE ROADS		10	
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		34	
INDEPENDENT DITCHES			
TEMPORARY CONSTRUCTION EXITS			
OTHER			
PAVEMENT			
TOPSOIL (EMB.)			
TOPSOIL (EXC.)			
TOPSOIL (TO REPLACE STRIPPED TOPSOIL)			

BALANCE SUMMARY

SHRINK = 5 % SWELL = 5 %

EMB. EMB.

645 VS

AVAILABLE = 645

BORROW MATERIAL = 678

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
			645			

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	1199		1142
SIDE ROADS	130		124
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	17		17
INDEPENDENT DITCHES	25		24
TEMPORARY CONSTRUCTION EXITS			
OTHER			
PAVEMENT			
TOPSOIL (EMB.)			
TOPSOIL (EXC.)			
TOPSOIL (TO REPLACE STRIPPED TOPSOIL)			

BALANCE SUMMARY

SHRINK = 5 % SWELL = 5 %

EXC. EMB.

1306 VS

AVAILABLE = 1306

WASTE MATERIAL = 1372

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
		1371	1371		1306	1306

"THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF EXCESS ACID PRODUCING MATERIAL. NO ACID-BASED TESTING OF THE SOIL IS REQUIRED. ALL EXCAVATED MATERIALS IS TO BE TREATED AS ACID PRODUCING MATERIALS.

SIDE DRAIN TABULATION

STATION	LOCATION LT.	LOCATION RT.	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 INLET TYPE	END TREATMENT INLET DRAWING NO.	END TREATMENT OUTLET TYPE	END TREATMENT OUTLET DRAWING NO.	REMARKS
						18"					
101+00	X		S.R. 33		85º	22	U	D-PE-18A	U	D-PE-18A	S.R. 33
101+50	X		S.R. 33		26º	51	U	D-PE-18A	U	D-PE-18A	S.R. 33
104+20		X	S.R. 33		23º	61	U	D-PE-18A	U	D-PE-18A	S.R. 33
21+20		X	PINEY GROVE		90º	29	U	D-PE-18A	U	D-PE-18A	PINEY GROVE
TOTALS						163					

Pipe Tabulation For Private Drives, Business & Field Entrances

IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
15266	N/A	N/A	N/A	283	N/A	283	N/A

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATIONS FROM	STATIONS TO	GUARDRAIL THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 EACH	GUARDRAIL THRIE BEAM BRIDGE TRAN. MASH TL-2 (11.36') 705-06.26 EACH	GUARDRAIL METAL BEAM GUARD FENCE 705-01.04 (L.F.)	GUARDRAIL W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	GUARDRAIL ROUND END ELEMENT 706-10.26 (EACH)	GUARDRAIL RADIUS RAIL 706-06.03 (L.F.)	TERMINAL ANCHORS IN-LINE MASH TL3 705-06.11 (EACH)	TERMINAL ANCHORS TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	TERMINAL ANCHORS TYPE 21 MASH TL2 (21.875') 705-06.30 (EACH)	REMARKS
4B	S.R. 33	X		101+99.83	102+62.67				16				1		
4B	S.R. 33	X		102+62.67	103+32.67			70							
4B	S.R. 33	x		103+32.67	105+36.37				153				1		
4B	S.R. 33		X	103+44.19	104+16.64	1			35	1	25	1			
4B	PINEY GROVE	X		20+27.64	20+96.88		1		40					1	
TOTALS						1	1	70.00	244.00	1	25.00	1	2	1	

SPECIAL DITCHES

ROADWAY	STATION FROM	STATION TO	SIDE	DETAIL NO.	CLASS A-1 RIP-RAP 709-05.06 (TON)	SEEDING W/O MULCH 801-02 (UNITS)
S.R. 33	99+06.08	102+50.00	LT	2B		3
S.R. 33	99+29.01	99+74.45	RT	2B		
S.R. 33	103+31.50	105+25.00	RT	2B	188.0	
PINEY GROVE	20+47.84	21+50.00	RT	2B		1
TOTALS					188	4

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PAVEMENT QUANTITIES

LOCATION (ROADWAY)	MINERAL AGG. D	BITUMINOUS PLANT MIX BASE (HOT MIX) A	A-S	B-M	B-M2	TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX) D	E		
	303-01	307-01.01	307-01.20	307-01.07	307-01.08	403-01	411-01.10	411-01.07	411-xx.xx	411-xx.xx
*S.R. 33	885	36			22	0.7	91	18		
PINEY GROVE RD	106				26	0.3	29			
PRIVATE DRIVEWAY	76									
TOTALS	1067	36			48	1.0	120	18		

TYPE - GRADE - PAY ITEM (TON)

* INCLUDES TEMP. PVMT OF 24 TONS FOR 307-01.01, 15 TONS FOR 307-01.08 AND 9 TONS FOR 411-01.10

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 INLET TYPE	END TREATMENT INLET DRAWING NO.	END TREATMENT OUTLET TYPE	END TREATMENT OUTLET DRAWING NO.	REMARKS
		48"					
20+89.83	87º	2 @ 45'	U	D-PE-48A	U	D-PE-48A	PINEY GROVE
TOTALS		90					

Pipe Tabulation For Local Roadways

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	2F1

SIDE DRAIN ENDWALLS

	LOCATION	DRIVE OR ENTRANCE STATION	OFFSET (FT.)	TYPE	STANDARD DRAWING NO.	SKEW	RIP-RAP CLASS xx 709-05.xx (TON)	CLASS A CONC. 611-07.01 (C.Y.)	STEEL BAR REINF. 611-07.02 (LB.)	ENDWALLS								
										15 IN. 6:1 611-07.30 (EACH)	18 IN. 6:1 611-07.31 (EACH)	24 IN. 6:1 611-07.32 (EACH)	30" IN. 6:1 611-07.33 (EACH)	36" IN. 6:1 611-07.34 (EACH)	42" IN. 6:1 611-07.35 (EACH)	48" IN. 6:1 611-07.36 (EACH)	15" IN. 12:1 611-07.72 (EACH)	18" IN. 12:1 611-07.73 (EACH)
(1)	S.R. 33	98+93.54	-17.26	6U	D-SEW-1A	82°					1							
	TOTALS										1							

(1) TIE TO EXISTING 18" CMP (STA. 98+93.54)

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7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	3
PS&E	2026	BR-STP-33(126)	3

RIGHT-OF-WAY

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE PROJECT MANAGER, AND PRECONSTRUCTION OFFICE ARE TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) 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.

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

(4) 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.

(5) 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.

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

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

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

(9) ON 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.

UTILITY

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

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

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

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

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

(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 (TO BE DETERMINED). ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH THE ENVIRONMENTAL PERMIT REQUIREMENTS.

UTILITY OWNERS

POWER:
POWELL VALLEY ELECTRIC CO-OP
420 STRAIGHT CREEK RD
PO BOX 1528
NEW TAZEWELL, TN 37825
PHONE: (423) 626-5204
CONTACT: BO GOODIN
CELL PHONE: (606) 545-2972
EMAIL: BGOODIN@PVE.COOP

TELEPHONE:
BRIGHTSPEED
101 NORTH ROAN STREET
JOHNSON CITY, TN 37601
CONTACT: JIM ARTERBURN
CELL PHONE: (423) 489-2033
EMAIL: JIM.ARTERBURN@BRIGHTSPEED.COM
CONTACT: JARRETT PAINTER
CELL PHONE: (423) 914-0830
EMAIL: JARRETT.PAINTER@BRIGHTSPEED.COM

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111928
STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	3A
PS&E	2026	BR-STP-33(126)	3A

REV. 05/27/25 : REVISED INFO. FOR TRACT 8 AND 9

REV. 02/25/26 : REVISED INFO. FOR TRACT 4, 6, AND 6A

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 DRAINAGE	SLOPE	CONSTRUCTION ①
				BOOK	PAGE											
1	BOYD ROWE AND WIFE, SHARON ROWE AND BILLY E. ROWE AND WIFE, BETSY ROWE	086	4	167	333	41.345		41.345				41.345				
2	BOYD ROWE AND WIFE, SHARON ROWE AND BILLY E. ROWE AND WIFE, BETSY ROWE	086	4	167	333		105.417	105.417					105.417			
3	JACKIE BARNARD AND WIFE, VIVIAN BARNARD	086	5	142	546		40.739	40.739					40.739			
4	JACKIE HENCE BARNARD AND JACKSON DREW BARNARD	073	025.00	1375	452	55.772		55.772	0.156		0.156	55.616				
5	DUSTIN L. LONG AND WIFE, ALYSSA KELLY LONG	086	006.01	1615	524	1.450		1.450				1.450				
6	JACKIE BARNARD AND WIFE, VIVIAN BARNARD	086	006.00	196	788		36.314	36.314		0.497	0.497		35.817			
6A	JACKIE BARNARD AND WIFE, VIVIAN BARNARD	086	006.00	196	788	0.658		0.658	4172 S.F.		4172 S.F.	0.562				
7	NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD	086	006.02	1598	409	0.777		0.777	3181 S.F.		3181 S.F.	0.704				
8	NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD	086	010.00	1598	409, 412	13.175	0.790	13.965	0.111		0.111	13.064	0.790			2371 S.F
9	NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD	086	010.00	1598	409, 412		68.000	68.000		0.201	0.201		67.799			
10	NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD	086	010.00	1598	412	0.302		0.302				0.302				
11	DOUGLAS GREENE AND WIFE, ANNA GREENE AND SANDY RYSEWYK AND REBECCA BERRY	073	23	1462	164	68.894		68.894				68.894				
12	BRANDON M. STOLL	073	23.04	1474	70		28.862	28.862					28.862			
13	JIMMY CALEB POSEY AND TORI MARANDA PAIGE PERKINS	073	023.03	1412	382	0.305		0.305				0.305				
14	NICHOLAS LLOYD BARNARD	086	007.02	1526	269	0.450		0.450				0.450				
15	WILLIAM A. TIGANO, JR.	073	023.05	1645	41	1742 S.F.	1.300	1.340		250 S.F.	250 S.F.	1742 S.F.	1.294			
ACQUISITION TOTALS (ACRES)											**1.140**					**2371 S.F**

① TO BE USED FOR CONSTRUCTION WORKING ROOM, AND EPSC MEASURES.

DISTURBED AREA	
IN BETWEEN SLOPE LINES	1.815 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.678 (AC)
TOTAL DISTURBED AREA	2.493 (AC)
TOTAL PROJECT AREA	2.889 (AC)

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
111432
STATE OF TENNESSEE

7/21/26

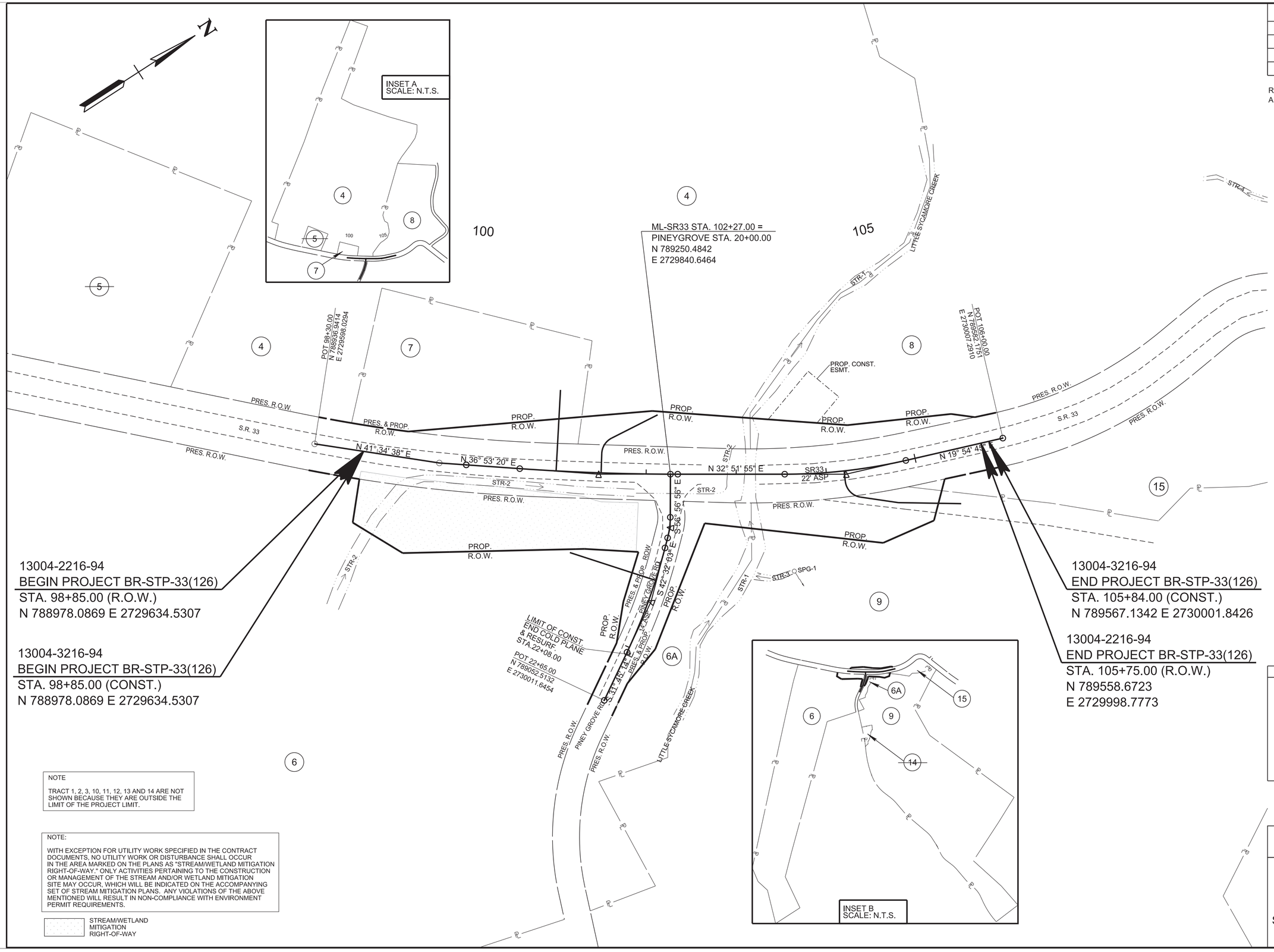
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	3B
PS&E	2026	BR-STP-33(126)	3B

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.



NOTE

TRACT 1, 2, 3, 10, 11, 12, 13 AND 14 ARE NOT SHOWN BECAUSE THEY ARE OUTSIDE THE LIMIT OF THE PROJECT LIMIT.

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
111938
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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. 98+85.00 TO STA.105+84.00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	4
PS&E	2026	BR-STP-33(126)	4

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.

N

NOTE

18" ST. LT. TO BE REMOVED FROM STA. 98+93.54 TO STA. 101+20.00

S.R. 33
PI 101+47.36
N 789,183.5240
E 2,729,797.4011
Δ 4° 01' 25" (LT)
D 2° 17' 31"
R 2,500.00
L 175.56
T 87.82
PC 100+59.54
PT 102+35.10

S.R. 33
PI 104+21.96
N 789,414.2335
E 2,729,946.4555
Δ 12° 57' 10" (LT)
D 9° 32' 57"
R 600.00
L 135.64
T 68.11
PC 103+53.85
PT 104+89.49

E.N. 2729500
E.N. 789500

JACKIE HENCE BARNARD AND JACKSON DREW BARNARD
4

NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD
8

NOTE:
SEPTIC LINES
OWNER DID NOT KNOW
EXACT LOCATION
ONE TANK NOT IN USE

NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD

5

~~DUSTIN L. LONG AND WIFE, ALYSSA KELLY LONG~~

7

POT 98+30.00
N 788936.9414
E 2729598.0294

POT 99+70.00

PT 100+00.00

BRIDGE ID. # 13SR0330009
58FT. 3-SPAN SLAB BRIDGE
25.4' WIDTH
(TO BE REMOVED)

EXIST. CB-1 TO BE REMOVED STA. 100+19.00

EXIST. 18" ST. TO BE REMOVED FROM STA. 98+93.54 TO STA. 100+76.00

EXIST. 18" CMP TO BE PLUGGED AND ABANDONED

PROP. CONST. ESMT.

EXIST. 18" PIPE TO BE PLUGGED & ABANDONED

STA. 103+16.29 43.07' LT
END IMPACT STR-1

POT 106+00.00
N 789562.7151
E 2730007.2910

13-033-10

13-033-12

CB1

N 41° 34' 38" E

N 32° 51' 55" E

N 19° 54' 45" E

S.R. 33

SR33 22' ASP

STR-1

STR-2

STR-3

SPG-1

PRES. R.O.W.

PROP. R.O.W.

CUT

FILL

EXIST. 18" PIPE TO BE REMOVED

STA. 102+99.00 31.84' LT
END IMPACT STR-2

STA. 103+15.42 43.24' RT
BEGIN IMPACT STR-1

STA. 103+01.67 42.96' RT
END RELOCATION STR-2

EXIST. 18" PIPE TO BE PLUGGED AND ABANDONED

BREAKER PANEL

EXIST. 15" PIPE TO REMAIN

WILLIAM A. TIGANO, JR.
15

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

ML-SR33 STA. 102+27.00 =
PINEYGROVE STA. 20+00.00
N 789250.4842
E 2729840.6464

STA. 99+05.09 86.82' RT
BEGIN IMPACT\RELOCATION STR-2

NOTE: PROPERTY OWNER VERBALLY STATED WATER LINE RAN BETWEEN WELL HOUSE (TRACT 7) AND SPRING HOUSE (TRACT 6) EXACT LOCATION UNKNOWN

PINEY GROVE RD.
PI 20+59.48
N 789,218.0467
E 2,729,890.4985
Δ 14° 24' 53" (RT)
D 62° 16' 41"
R 92.00
L 23.15
T 11.63
PC 20+47.85
PT 20+71.00

POT 22+85.00
N 789052.5132
E 2730011.6454

6

JACKIE BARNARD AND WIFE, VIVIAN BARNARD

6A

JACKIE BARNARD AND WIFE, VIVIAN BARNARD

9

NICHOLAS LLOYD BARNARD AND WIFE, SARAH BARNARD

PINEY GROVE RD.
PI 21+44.35
N 789,155.4164
E 2,729,947.9573
Δ 10° 46' 49" (RT)
D 8° 44' 03"
R 656.00
L 123.43
T 61.90
PC 20+82.45
PT 22+05.88

NOTE:

EXISTING BRIDGE NO 13-SR033-20.56 SHALL BE INSPECTED BY TDOT AFTER PHASE I DEMOLITION AND BEFORE OPENING TO PHASE I TRAFFIC. WEIGHT POSTING LIMITS SHALL NOT BE VIOLATED.

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
13-033-10	788845.4160	2729456.0910	1140.17	OFF CHAIN	
13-033-11	789171.0120	2729900.4560	1133.69	101+94.23	93.70' (RT)
13-033-12	789918.9930	2730019.9670	1150.19	OFF CHAIN	

*STATIONS & OFFSETS ARE REFERENCED TO S.R.33.

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111952
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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

PRESENT LAYOUT

STA. 98+85.00 TO STA.105+84.00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	4A
PS&E	2026	BR-STP-33(126)	4A

REV. 06/02/25 : ADDED MISSING PROPERTY LABELS FOR TRACT 9.

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.

N

N 54° 40' 23" E
263.90'

N 33° 37' 23" W
225.12'

5
~~DUSTIN L. LONG~~
~~AND WIFE,~~
~~ALYSSA KELLY LONG~~

250.64'
N 44° 27' 17" E

N 44° 27' 17" E
(415.64')

13-033-10

146.32'
N 44° 27' 17" E

PRES. R.O.W.

S.R. 33

R=1730.00'
L=79.43'

N 64° 18' 13" E
65.00'

NICHOLAS LLOYD
BARNARD
AND WIFE,
SARAH BARNARD

100

7

N 44° 28' 49" W
153.47'

N 46° 54' 25" E
240.62'

98+66.99
29.06'

99+30.84
29.31'

R=1670.00'
L=58.41'

R=1670.00'
L=63.85'

PRES. & PROP.
R.O.W.

CUT

R=1730.00'
L=147.44'

PRES. R.O.W.

98+85.00
31.11'

100+30.00
30.48'

N 64° 26' 27" W
65.00'

98+85.00
80.00'

99+45.00
105.00'

PROP.
R.O.W.

N 31° 33' 6" E
201.93'

13-033-11

N 41° 34' 38" E

S.R. 33

N 32° 51',55" E

JACKIE HENCE BARNARD
AND
JACKSON DREW BARNARD

4

2729600
LIN 789500

ML-SR33 STA. 102+27.00 =
PINEYGROVE STA. 20+00.00
N 789250.4842
E 2729840.6464

101+25.79
61.23'
101+22.99
31.01'

N 34° 37' 19" E
24.59'

N 28° 2' 53" E
193.09'

N 49° 23' 45" W
(115.89')

30.35

102+06.00
70.00'

N 37° 1' 15" E
108.92'

103+15.38
67.77'
103+15.45
62.27'

N 28° 2' 53" E
78.59'

102+89.04
28.44'

PROP.
R.O.W.

FILL

CUT

R=1670.00'
L=164.34'

100+98.10'
30.54'

N 34° 37' 19" E PRES.
164.70' R.O.W.

R=820.00'
L=26.82'

103+15.85
28.06'

R=820.00'
L=172.19'

104+94.92
30.72'

102+09.77
29.28'

102+40.68
30.10'

102+87.20

R=880.00'
L=29.96'

31.53'

103+16.55
31.94'

R=880.00'
L=175.44'

N 34° 37' 19" E
111.53'

R=1730.00'
L=70.02'

PRES. R.O.W.

CUT

100+99.53
29.45'

20+39.08
14.88'

R=35.00'
L=17.54'

20+58.05
14.37'

N 42° 43' 2" W
26.57'

CUT

L1

L2

L3

102+41.06
31.61'

R=65.00'
L=32.57'

L10
28.28'

CUT

N 39° 23' 11" E
37.64'

N 39° 6' 29" E

PROP.
R.O.W.

N 9° 8' 41" E
61.64'

103+16.88
60.22'

147.14'

N 57° 48' 23" W
(63.12')

102+65.00
54.55'

20+61.57
15.43'

N 42° 43' 2" W
26.57'

20+86.49
14.97'

L9

N 39° 6' 29" E
52.19'

104+50.00
85.00'

101+35.00
85.00'

13-033-11

N 36° 6' 41" E
59.96'

101+92.95
86.69'

N 40° 15' 57" W
57.80'

R=585.00'
L=111.93'

21+55.00
25.84'

N 47° 54' 29" W
46.16'

22+01.29
14.88'

PROP.
R.O.W.

PINEY GROVE RD
PROF. FILL
R.O.W.

CUT

R=615.00'
L=88.52'

N 35° 41' 20" W
150.03'

N 31° 45' 15" W
108.93'

N 31° 45' 15" W R=615.00'
35.60' L=29.16'

6A

21+73.00
15.26'

L8

21+90.00
27.00'

22+01.50
15.12'

L7

22+37.00
15.11'

L6

N 17° 58' 5" W
49.07'

N 56° 19' 12" W
25.66'

N 13° 40' 14" E
81.19'

2730000
LIN 789000

PRES. R.O.W.

PINEY GROVE RD

PRES. R.O.W.

N 31° 45' 15" W
65.33'

R=290.00'
L=191.56'

R=260.00'
L=171.75'

N 69° 36' 5" W
29.54'

N 16° 0' 40" W

N 69° 36' 5" W
26.43'

R 134.90'
N 85° 40' 27" W

N 11° 58' 50" E
77.54'

JACKIE BARNARD
AND WIFE,
VIVIAN BARNARD

NICHOLAS LLOYD
BARNARD
AND WIFE,
SARAH BARNARD

8

L20

L19

L18

L17

L16

L15

L14

L13

N 21° 20' 10" W
127.63'

N 57° 48' 23" W
(59.72')

N 20° 43' 0" E
18.25'

N 40° 31' 41" E

PROP. CONST.
ESMT.

26.71'

105+50.00
39.00'

105+93.25
29.34'

N 26° 42' 34" E
115.76'

104+30.00
50.00'

N 20° 43' 0" E
80.09'

PROP.
R.O.W.

N 37° 1' 15" E
108.31'

FILL

L11

105+75.00
29.60'

N 19° 54' 45" E

R=440.00'
L=210.88'

PRES. R.O.W.

R=500.00'
L=239.64'

S.R. 33

105+92.40
30.66'

N 20° 43' 0" E
32.93'

N 20° 43' 0" E
29.12'

104+94.08
29.27'

CUT PROP.
R.O.W.

105+27.00
29.74'

N 42° 35' 18" W
13.44'

105+20.79
41.66'

N 42° 35' 18" W
34.21'

105+05.00
72.00'

WILLIAM A.
TIGANO, JR.

15

N 19° 23' 11" E
23.34'

N 42° 14' 44" E
119.68'

S 12° 53' 8" E
50.57'

9

NICHOLAS LLOYD
BARNARD
AND WIFE,
SARAH BARNARD

13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

6
JACKIE BARNARD
AND WIFE,
VIVIAN BARNARD

PROPERTY LINES		
L6	N 28° 08' 24" W	48.78'
L7	N 44° 31' 47" W	27.15'
L8	N 53° 48' 09" W	28.29'
L9	N 24° 30' 31" W	114.41'
L10	N 57° 48' 23" W	28.28'
L11	N 57° 48' 23" W	34.22'
L12	NOT USED	NOT USED
L13	N 16° 00' 40" W	39.42'
L14	N 03° 07' 39" E	24.97'
L15	N 05° 46' 39" W	70.20'
L16	N 36° 53' 44" W	66.17'
L17	N 58° 42' 36" W	30.79'
L18	N 67° 26' 21" W	90.85'
L19	N 64° 18' 13" E	45.68'
L20	N 74° 1' 03" W	74.81'

PRES. R.O.W. LINES		
LINE	BEARING	DISTANCE
L1	N 71° 25' 45" W	10.19'
L2	N 71° 25' 45" W	1.56'
L3	N 34° 37' 19" E	46.54'
L4	NOT USED	NOT USED
L5	NOT USED	NOT USED

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
13-033-10	788845.4160	2729456.0910	1140.17	OFF CHAIN	
13-033-11	789171.0120	2729900.4560	1133.69	101+94.23	93.70' (RT)
13-033-12	789918.9930	2730019.9670	1150.19	OFF CHAIN	

*STATIONS & OFFSETS ARE REFERENCED TO S.R.33.

2730500
LIN 789500

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
111993
STATE OF TENNESSEE

7/21/26

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 98+85.00 TO STA.105+84.00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	4B
PS&E	2026	BR-STP-33(126)	4B

REV. 08/11/25 : ADDED ONE MORE 48" PIPE CROSSING PINEY GROVE RD.

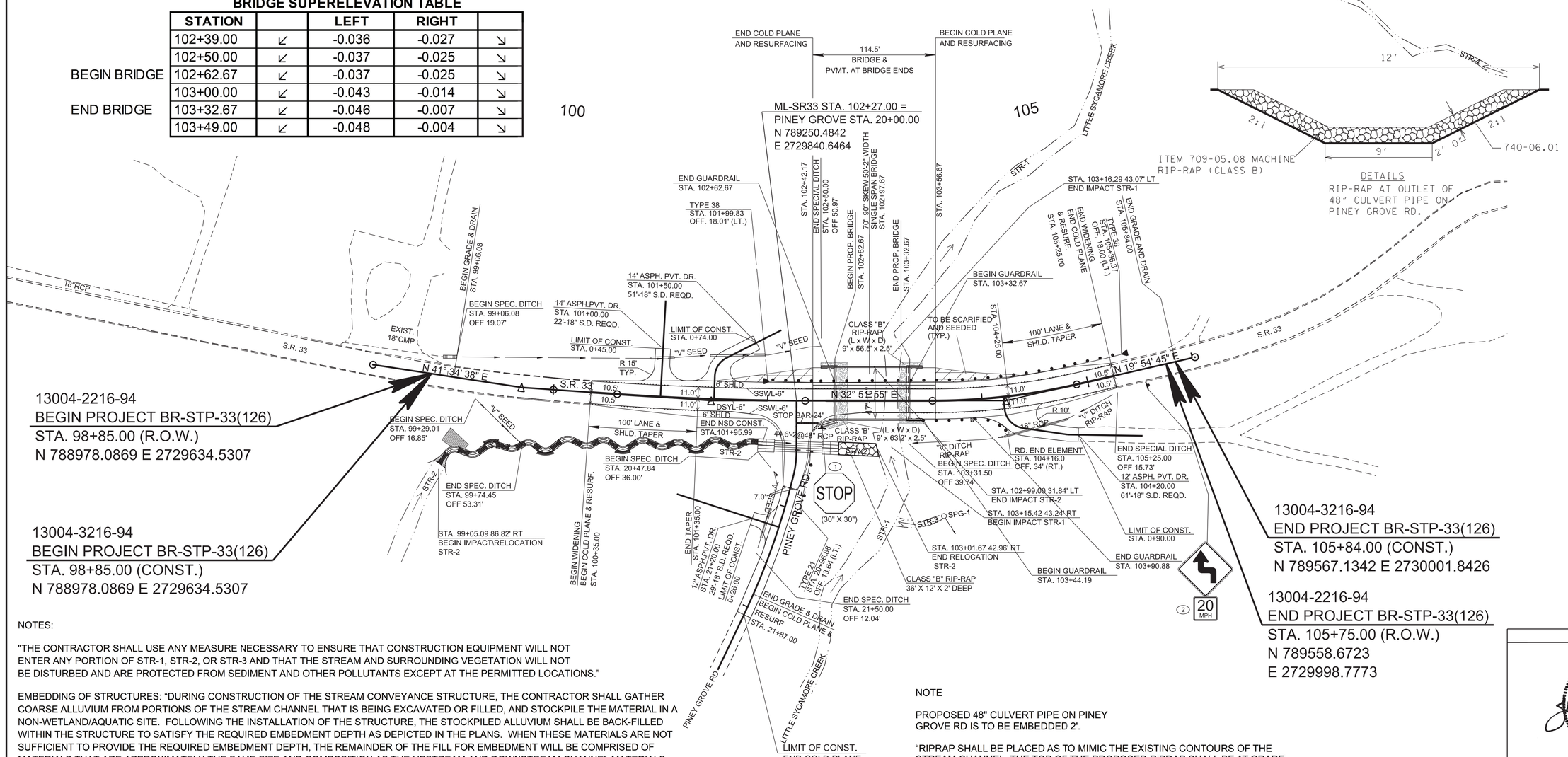
LOW FLOW CHANNEL WITH DOUBLE BARREL EMBEDDED STRUCTURE:

THE STREAM AT THE INLET AND OUTLET OF PROPOSED EMBEDDED STREAM CONVEYANCE STRUCTURES SHALL BE RESTORED TO THE PRECONSTRUCTION STREAM CHANNEL CROSS-SECTION MATCHING THE CHANNEL BOTTOM WIDTH AND BANK HEIGHT AND WIDTH. THE RESTORED STREAM CHANNEL WILL BE CONSTRUCTED FROM THE EXCAVATED STREAM AND STREAM BANK MATERIALS, OR OTHER MATERIALS IF SPECIFIED, ONCE THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE IS COMPLETE. REFER TO THE "EMBEDDING OF STRUCTURES" NOTE FOR SPECIFICATIONS OF EXCAVATED STREAM MATERIALS TO BE USED, IF APPLICABLE."

WHEN RECONSTRUCTING THE STREAM BANK, USE A COIR FIBER ROLL AT THE TOE OF THE BANK TO PROVIDE BANK STABILITY WHILE NATIVE VEGETATION ESTABLISHES. STANDARD DRAWING D-NSD-33 MUST BE USED FOR COIR FIBER ROLL INSTALLATION. STREAM BANK MATERIALS EXCAVATED DURING THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, OR OTHER MATERIALS IF SPECIFIED, SHOULD BE USED WHEN RECONSTRUCTING THE STREAM BANK ONCE THE STRUCTURE IS COMPLETE. NATIVE SEED MIXTURES AS SPECIFIED IN STANDARD DRAWING STD-17-20 SHALL BE PLANTED ONCE THE BANK CONSTRUCTION IS COMPLETE. IF NATURAL CHANNEL DESIGN IS PROPOSED AT THE STRUCTURE INLET, OUTLET, OR BOTH, IMPLEMENT THE DESIGN AS SHOWN IN THE NATURAL CHANNEL DESIGN PLANS INSTEAD OF RESTORING THE CHANNEL TO THE PRECONSTRUCTION CROSS-SECTION.

BRIDGE SUPERELEVATION TABLE

	STATION		LEFT	RIGHT	
	102+39.00	↙	-0.036	-0.027	↘
	102+50.00	↙	-0.037	-0.025	↘
BEGIN BRIDGE	102+62.67	↙	-0.037	-0.025	↘
	103+00.00	↙	-0.043	-0.014	↘
END BRIDGE	103+32.67	↙	-0.046	-0.007	↘
	103+49.00	↙	-0.048	-0.004	↘



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTES:

"THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-2, OR STR-3 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS."

EMBEDDING OF STRUCTURES: "DURING CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, THE CONTRACTOR SHALL GATHER COARSE ALLUVIUM FROM PORTIONS OF THE STREAM CHANNEL THAT IS BEING EXCAVATED OR FILLED, AND STOCKPILE THE MATERIAL IN A NON-WETLAND/AQUATIC SITE. FOLLOWING THE INSTALLATION OF THE STRUCTURE, THE STOCKPILED ALLUVIUM SHALL BE BACK-FILLED WITHIN THE STRUCTURE TO SATISFY THE REQUIRED EMBEDMENT DEPTH AS DEPICTED IN THE PLANS. WHEN THESE MATERIALS ARE NOT SUFFICIENT TO PROVIDE THE REQUIRED EMBEDMENT DEPTH, THE REMAINDER OF THE FILL FOR EMBEDMENT WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.

THE STREAM AT THE INLET AND OUTLET OF PROPOSED EMBEDDED STREAM CONVEYANCE STRUCTURES SHALL BE RESTORED TO THE PRECONSTRUCTION STREAM CHANNEL CROSS-SECTION MATCHING THE CHANNEL BOTTOM WIDTH AND BANK HEIGHT AND WIDTH. THE RESTORED STREAM CHANNEL WILL BE CONSTRUCTED FROM THE EXCAVATED STREAM AND STREAM BANK MATERIALS, OR OTHER MATERIALS IF SPECIFIED, ONCE THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE IS COMPLETE. REFER TO THE "EMBEDDING OF STRUCTURES" NOTE FOR SPECIFICATIONS OF EXCAVATED STREAM MATERIALS TO BE USED, IF APPLICABLE."

WHEN RECONSTRUCTING THE STREAM BANK, USE A COIR FIBER ROLL AT THE TOE OF THE BANK TO PROVIDE BANK STABILITY WHILE NATIVE VEGETATION ESTABLISHES. STANDARD DRAWING D-NSD-33 MUST BE USED FOR COIR FIBER ROLL INSTALLATION. STREAM BANK MATERIALS EXCAVATED DURING THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, OR OTHER MATERIALS IF SPECIFIED, SHOULD BE USED WHEN RECONSTRUCTING THE STREAM BANK ONCE THE STRUCTURE IS COMPLETE. NATIVE SEED MIXTURES AS SPECIFIED IN STANDARD DRAWING STD-17-20 SHALL BE PLANTED ONCE THE BANK CONSTRUCTION IS COMPLETE. IF NATURAL CHANNEL DESIGN IS PROPOSED AT THE STRUCTURE INLET, OUTLET, OR BOTH, IMPLEMENT THE DESIGN AS SHOWN IN THE NATURAL CHANNEL DESIGN PLANS INSTEAD OF RESTORING THE CHANNEL TO THE PRECONSTRUCTION CROSS-SECTION.

NOTE

PROPOSED 48" CULVERT PIPE ON PINEY GROVE RD IS TO BE EMBEDDED 2'.

"RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP 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. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK."

LEGEND

TEMPORARY PAVEMENT AREA TO BE SCARIFIED, OBLITERATED, TOPSOILED, AND SEEDED

SEE SHEET 4C FOR S.R. 33 PROFILES

SEE SHEET 5 FOR SIDE ROAD PROFILES

SEALED BY

STACY L. WEAVER REGISTERED ENGINEER AGRICULTURE COMMERCE 111923 STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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.

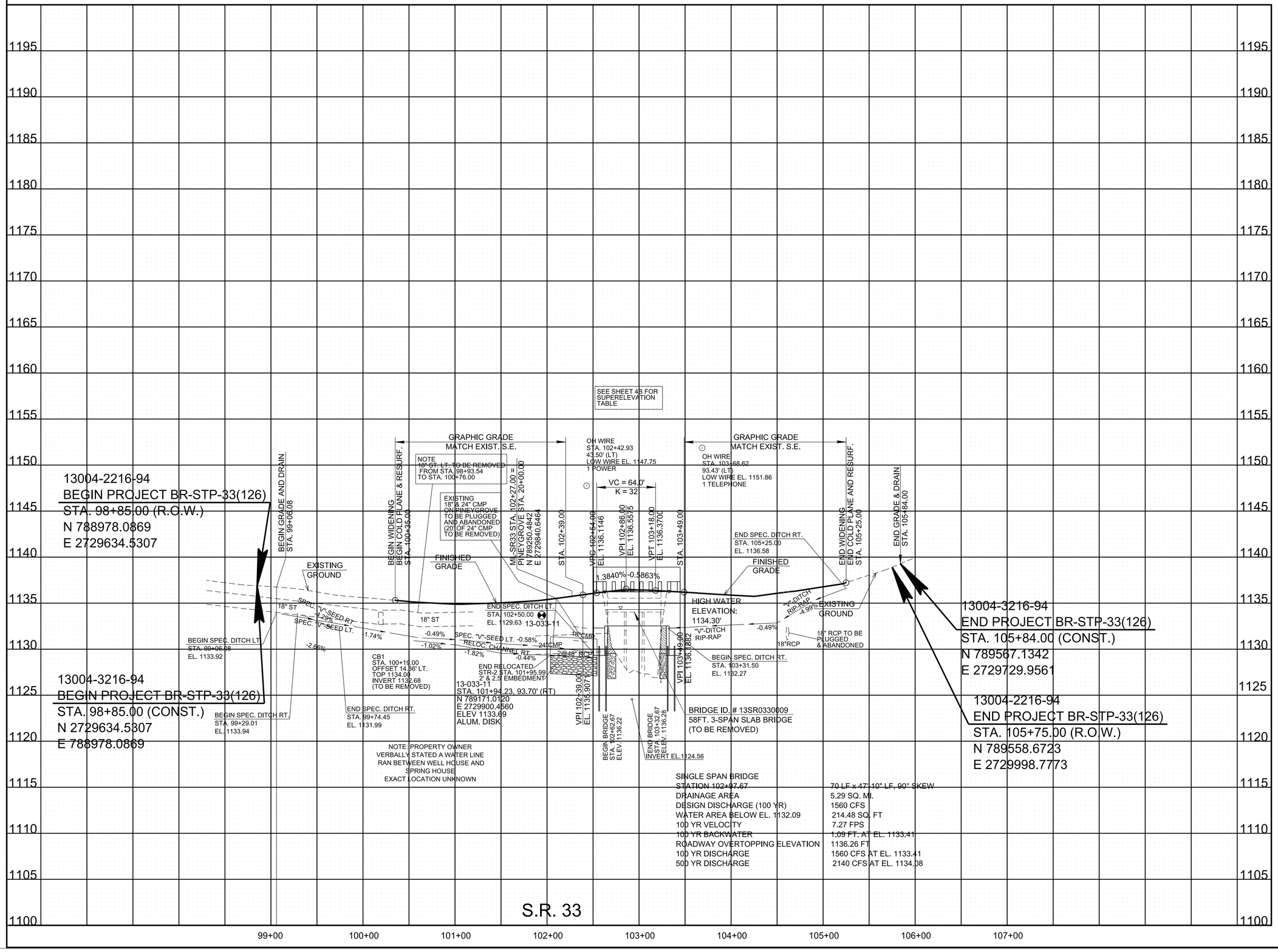
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.100+35.00 TO STA.105+84.00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	4C
PS&E	2026	BR-STP-33(126)	4C



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OR
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111952
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

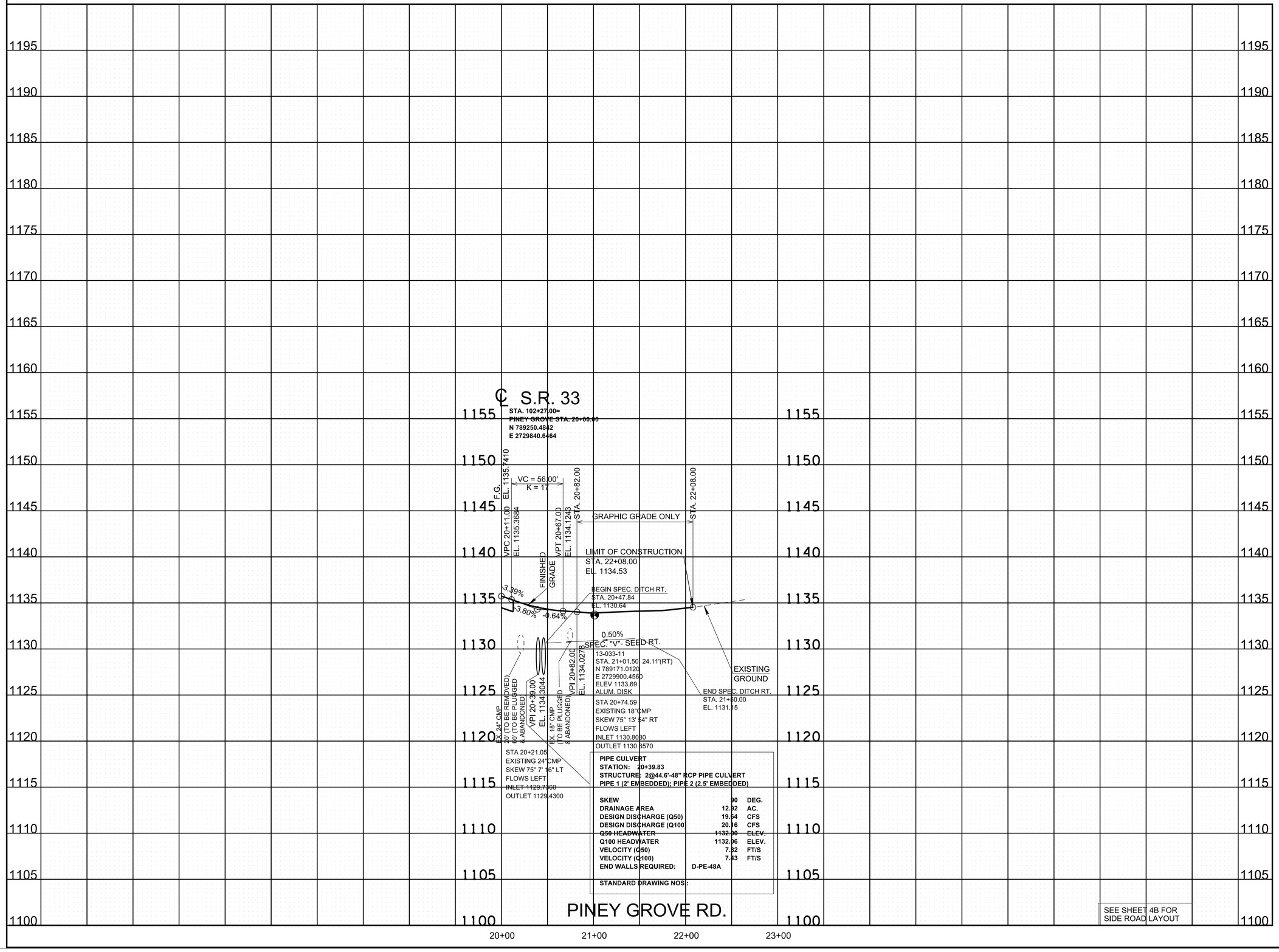
PROPOSED PROFILE

STA.100+35.00 TO STA.105+84.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	5
PS&E	2026	BR-STP-33(126)	5



SEE SHEET 4B FOR SIDE ROAD LAYOUT

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111992
STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD PROFILE

STA. 20+00.00 TO STA. 22+08.00

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

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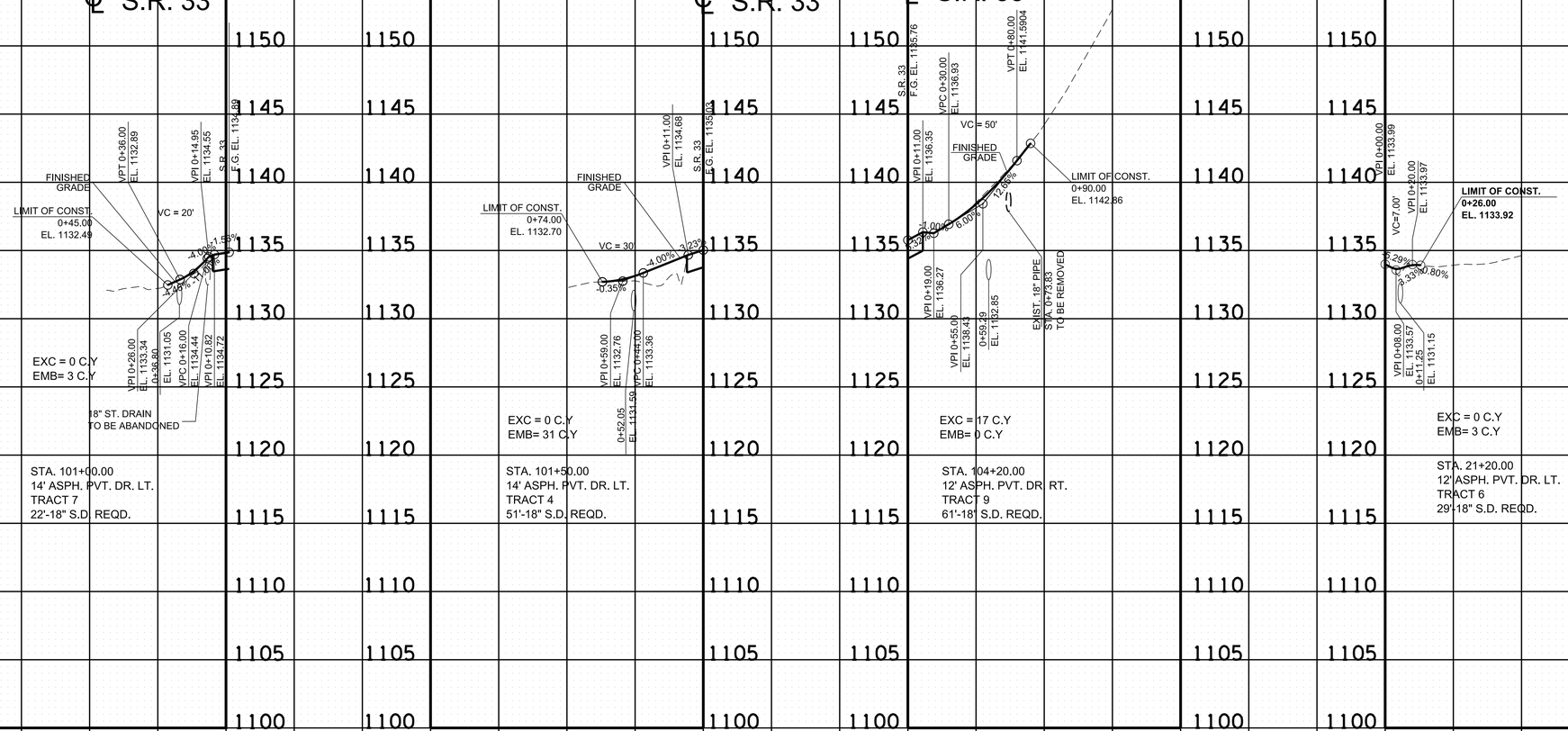
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	6
PS&E	2026	BR-STP-33(126)	6

℄ S.R. 33

℄ S.R. 33

℄ S.R. 33

℄ PINEYGROVE



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	7
PS&E	2026	BR-STP-33(126)	7

STATION 103+15.61 (S.R. 33) , STREAM NAME: SOUTH FORK SYCAMORE CREEK
DRAINAGE / HYDRAULIC DATA FOR BRIDGE
SKEW= 90°; Q100=1560 CFS; V100=7.27 FPS; Q2=410 CFS, V2=4.92 FPS

STREAM BED LINING: SILT AND ROCK
DIRECTION OF FLOW: LEFT
DRAINAGE AREA 5.29 MI.^2 ; ( ) FLAT; (X) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: SPAN 58.2' , HEIGHT , STRUCTURE SUPERSTRUCTURE
BEGIN STATION - OFFSET , END STATION - OFFSET
LOW BEAM ELEV. 1134.03' , LOCATION: SEE BRIDGE SKETCH
INLET INVERT ELEV. , OUTLET INVERT ELEV.
NORMAL WATER ELEV. , EXTREME HIGHWATER ELEV. 1134.30' , DATE: 1977
HOW OBTAINED: LOCAL PROPERTY OWNER
BACKWATER FROM WHAT STREAM (IF APPLICABLE): N/A
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:

DRAINAGE DATA FOR PIPE
STATION 20+21.05 (PINEY GROVE RD.)
SKEW= 75°; Q50=34.8 CFS; V=7.6 FPS
DIRECTION OF FLOW: LEFT
DRAINAGE AREA 12.9 ac. , ( ) FLAT; (X) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: 24" CMP
EXISTING STRUCTURE CONDITION:
REMARKS:

DRAINAGE DATA FOR PIPE
STATION 20+74.59 (PINEY GROVE RD.)
SKEW= 75°; Q50=81.5 CFS; V=7.6 FPS
DIRECTION OF FLOW: LEFT
DRAINAGE AREA 30.2 ac. , ( ) FLAT; (X) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: 18" CMP
EXISTING STRUCTURE CONDITION:
REMARKS:

PROJECT LOCATION

TOTAL DRAINAGE AREA DETAIL
SCALE: N.T.S.

BRIDGE ID. # 13SR0330009
58FT. 3-SPAN SLAB BRIDGE
(TO BE REMOVED)

POT 98+30.00
N 788836.9414
E 2729598.0284

POT 100+00.00
N 789055.8642
E 2729708.9452

POT 22+65.00
N 789052.5132
E 2730011.6454

NOTE: PROPERTY OWNER VERBALLY STATED WATER LINE RAN BETWEEN WELL HOUSE AND SPRING HOUSE
EXACT LOCATION UNKNOWN

13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869
E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869
E 2729634.5307

STUDY AREA TO INCLUDE WHAT APPEARS TO BE A SPRING

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342
E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

EXISTING CONTOURS

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No. 111923
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD/83(1995), 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

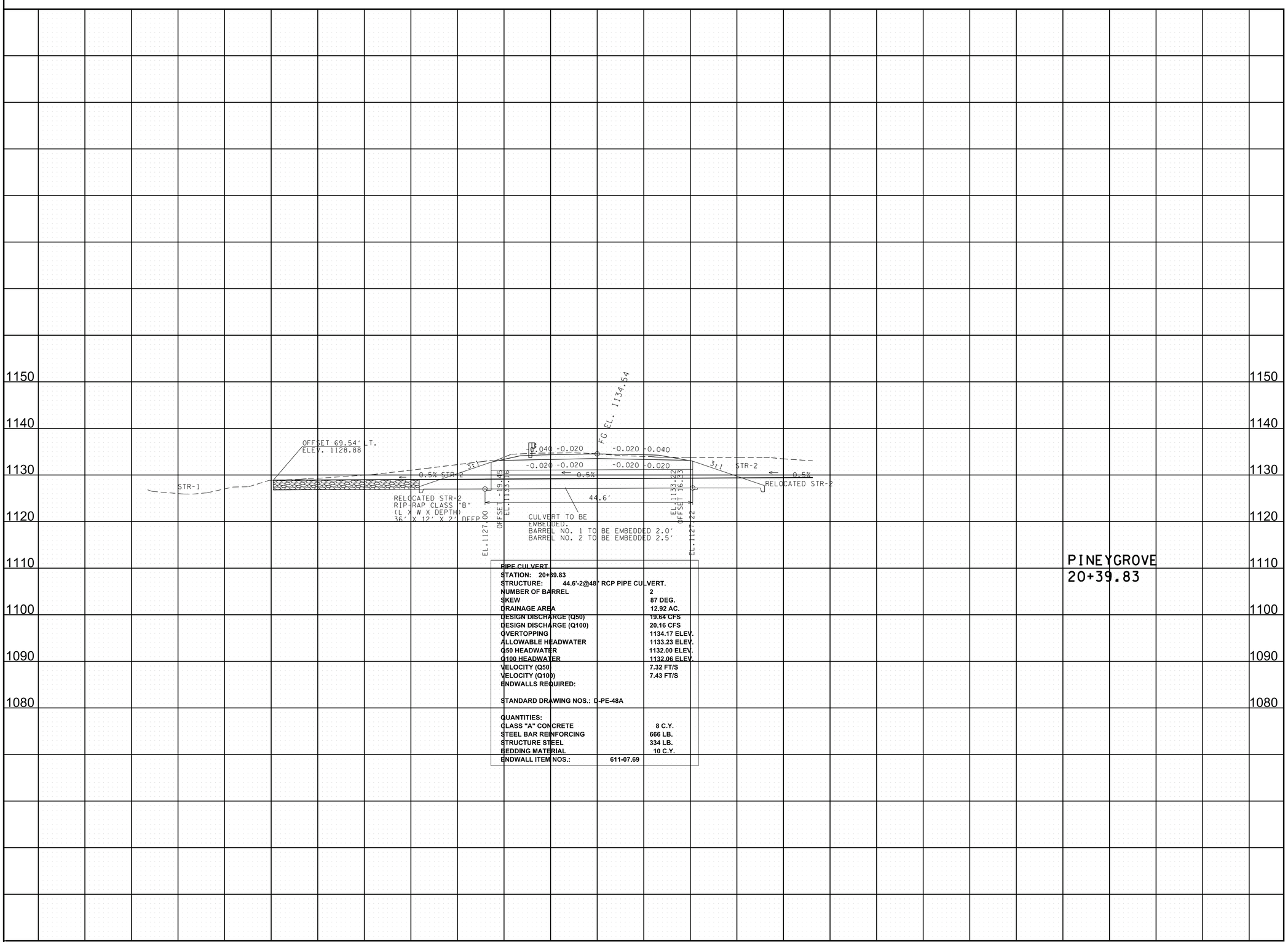
DRAINAGE MAP

STA.98+85.00 TO STA.105+84.00
SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	8
PS&E	2026	BR-STP-33(126)	8

REV. 08/11/25: ADDED ONE MORE 48" PIPE CROSSING PINEY GROVE RD.



PIPE CULVERT		
STATION:	20+39.83	
STRUCTURE:	44.6'-2@48" RCP PIPE CULVERT.	
NUMBER OF BARREL		2
SKEW		87 DEG.
DRAINAGE AREA		12.92 AC.
DESIGN DISCHARGE (Q50)		19.64 CFS
DESIGN DISCHARGE (Q100)		20.16 CFS
OVERTOPPING		1134.17 ELEV.
ALLOWABLE HEADWATER		1133.23 ELEV.
Q50 HEADWATER		1132.00 ELEV.
Q100 HEADWATER		1132.06 ELEV.
VELOCITY (Q50)		7.32 FT/S
VELOCITY (Q100)		7.43 FT/S
ENDWALLS REQUIRED:		
STANDARD DRAWING NOS.:	D-PE-48A	
QUANTITIES:		
CLASS "A" CONCRETE		8 C.Y.
STEEL BAR REINFORCING		666 LB.
STRUCTURE STEEL		334 LB.
BEDDING MATERIAL		10 C.Y.
ENDWALL ITEM NOS.:	611-07.69	

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COMMERCE
111923
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

CULVERT SECTION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	9
PS&E	2026	BR-STP-33(126)	9

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

ENVIRONMENTAL

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

INSPECTION, MAINTENANCE & REPAIR

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

(GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

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

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

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

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

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

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

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

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

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

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

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

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

STREAMS, WETLANDS & BUFFER ZONES

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

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY BERM	EC-STR-27
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	EROSION CONTROL BLANKET	EC-STR-34
HVF HVF	HIGH VISIBILITY FENCE	S-F-1

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	STAGE I QUANTITY 13004-3216-94	STAGE II QUANTITY	STAGE III QUANTITY	TOTAL QUANTITY
(1)	203-01.07	RD & DRNG EXCV (ACID PRODUCING- OFF SITE DISPOSAL)	C.Y.	197			197
	209-05	SEDIMENT REMOVAL	C.Y.	27	27		54
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	296	296		592
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1	3		4
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	1	1		2
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	59	59		118
(4)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	60	21		81
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	660			660
(2)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	50	50		100
(3)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	496	124		620
	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1004	335		1339
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	17	14		31
	801-02	SEEDING (WITHOUT MULCH)	UNIT			31	31
	801-03	WATER (SEEDING & SODDING)	M.G.	2	1		3
	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.			1696	1696

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

(1) INCLUDE 183 C.Y. FOR EARTH BERM AND 14 C.Y. FOR CONSTRUCTION EXIT.
(2) TO BE USED FOR CONSTRUCTION ENTRANCE AND EXIT.
(3) TO BE USED FOR INLET PROTECTION TYPE 1. QUANTITIES TO BE PAID FOR 2 PHASES.

SEALED BY

STACY L. WEAVER REGISTERED ENGINEER AGRICULTURE COMMERCE 111992 STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC NOTES, LEGEND, AND TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	10
PS&E	2026	BR-STP-33(126)	10

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.

N

NOTE:
SEPTIC LINES
OWNER DID NOT KNOW
EXACT LOCATION
ONE TANK NOT IN USE

100

105

ML-SR33 STA. 102+27.00 =
PINEYGROVE STA. 20+00.00
N 789250.4842
E 2729840.6464

BRIDGE ID. # 10SR0330009
58FT. 3-SPAN SLAB BRIDGE
25.4' WIDTH /
(TO BE REMOVED)

LITTLE SYCAMORE CREEK

GRASS

GRASS

FIELD

FIELD

WOODS

S.R. 33

S.R. 33

PRE. & PROP. R.O.W.

PROP. R.O.W.

PROP. R.O.W.

PROP. R.O.W.

LIMIT OF DISTURBED AREA

LIMIT OF DISTURBED AREA

LIMIT OF DISTURBED AREA

PROP. CONST. ESMT.

PROP. CONST. ESMT.

OUTFALL 1

OUTFALL 2

OUTFALL 3

OUTFALL 4

SR33 I
22° ASP

TCE

80.22'

24"

STR-1

STR-2

STR-3

STR-4

SPG-1

SFB

HVF

MB

PINEY GROVE RD

PINEY GROVE RD

PINEY GROVE RD
PROP. R.O.W.

13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

OUTFALLS

Outfall No.	Drainage Area	Average Slope
1	0.4 AC	12.0%
2	0.2 AC	15.0%
3	0.2 AC	1.0%
4	0.2 AC	1.3%

EXISTING CONTOURS

STAGE I

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
111923
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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. 98+85 TO STA. 105+84

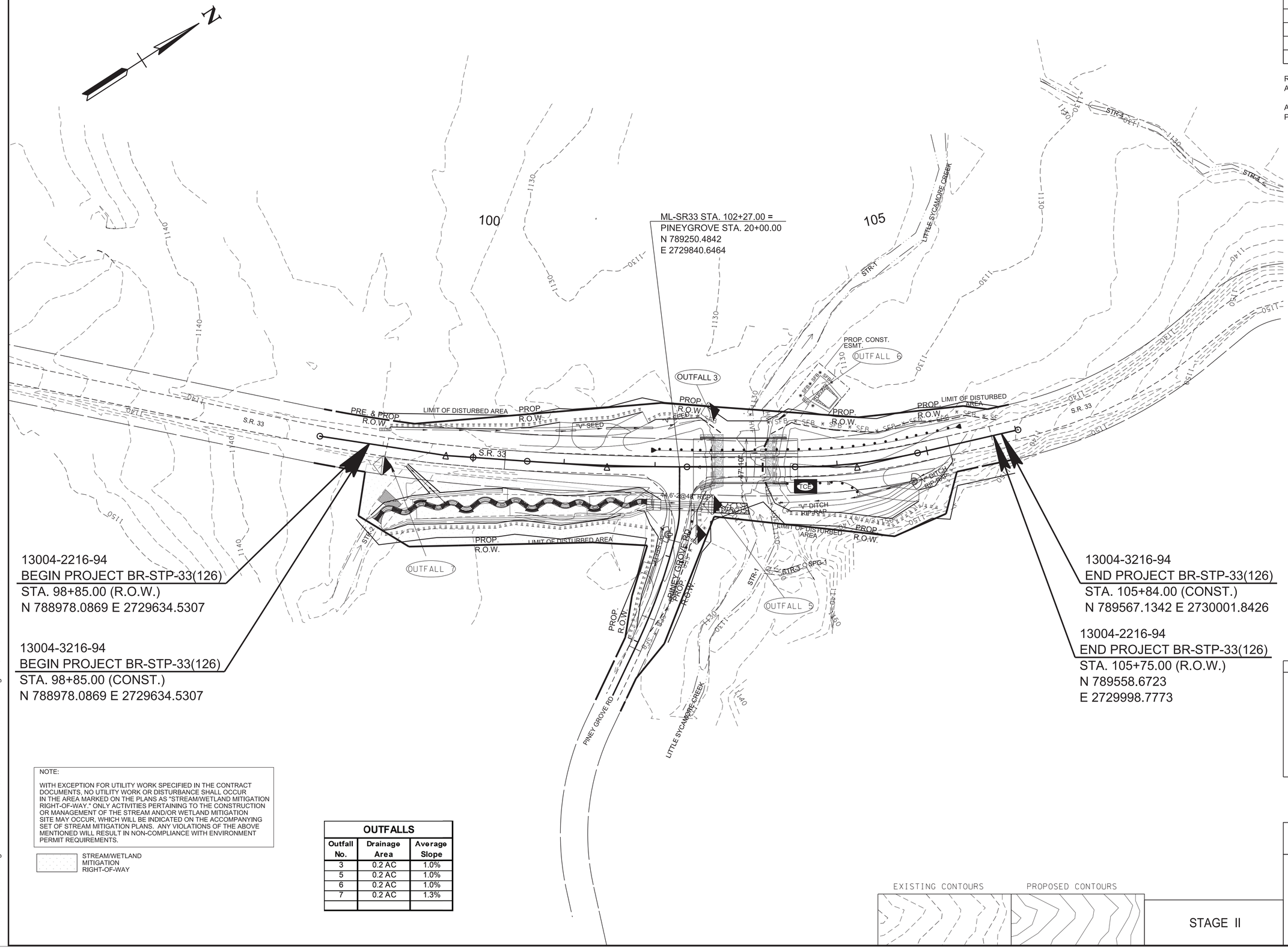
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	11
PS&E	2026	BR-STP-33(126)	11

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.

ADDED ONE MORE 48" PIPE CROSSING PINEY GROVE RD.



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

OUTFALLS

Outfall No.	Drainage Area	Average Slope
3	0.2 AC	1.0%
5	0.2 AC	1.0%
6	0.2 AC	1.0%
7	0.2 AC	1.3%

EXISTING CONTOURS

PROPOSED CONTOURS

STAGE II

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111952
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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. 98+85 TO STA. 105+84

SCALE: 1"= 50'

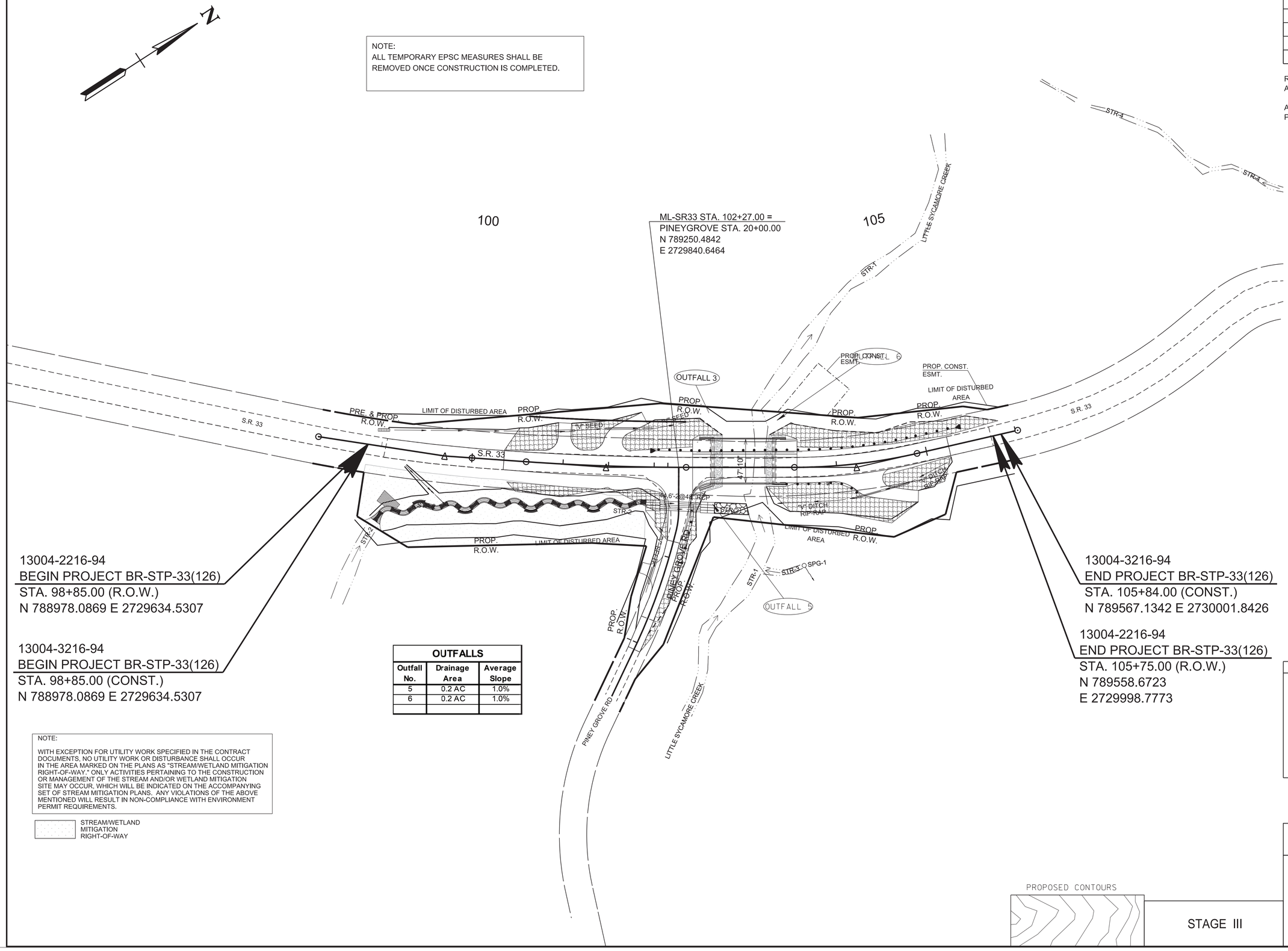
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	12
PS&E	2026	BR-STP-33(126)	12

REV. 08/11/25 : ADDED MITIGATION NOTES AND BOUNDARY ON TRACT 6.

ADDED ANOTHER 48" PIPE CROSSING PINEY GROVE RD.

NOTE:
ALL TEMPORARY EPSC MEASURES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED.



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

OUTFALLS		
Outfall No.	Drainage Area	Average Slope
5	0.2 AC	1.0%
6	0.2 AC	1.0%

NOTE:

WITH EXCEPTION FOR UTILITY WORK SPECIFIED IN THE CONTRACT DOCUMENTS, NO UTILITY WORK OR DISTURBANCE SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS "STREAM/WETLAND MITIGATION RIGHT-OF-WAY." ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM AND/OR WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE ACCOMPANYING SET OF STREAM MITIGATION PLANS. ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH ENVIRONMENT PERMIT REQUIREMENTS.

STREAM/WETLAND MITIGATION RIGHT-OF-WAY

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111925
STATE OF TENNESSEE
7/21/26

COORDINATES ARE NAD 83(1995), 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.

PROPOSED CONTOURS

STAGE III

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 98+85 TO STA. 105+84
SCALE: 1"= 50'

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR THE CURRENT EDITION OF THE "TENNESSEE SUPPLEMENT TO THE STANDARD HIGHWAY SIGNS BOOK"

CONCRETE AND STEEL QUANTITIES FOR FOOTINGS ARE PER EACH

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	 R1-1	4B	36"	36"									WHITE (REF.)	RED (REF.)	0.100" SHEET ALUMINUM	P5	h = 12'-6"	TYPE 4 1'-0" DIA.	0.12	24.9		P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A
2	 W1-3  W13-1P	4B 4B	36" 18"	36" 18"									BLACK BLACK	YELLOW (REF.) YELLOW (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P6	h = 14'-9"	TYPE 4 1'-0" DIA.	0.12	24.9		P6 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	13
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.	.	.	.
.	.	.	.

SEALED BY

BRYAN BARTNIK REGISTERED ENGINEER No. 119211 STATE OF TENNESSEE DEPARTMENT OF AGRICULTURE DEPARTMENT OF COMMERCE

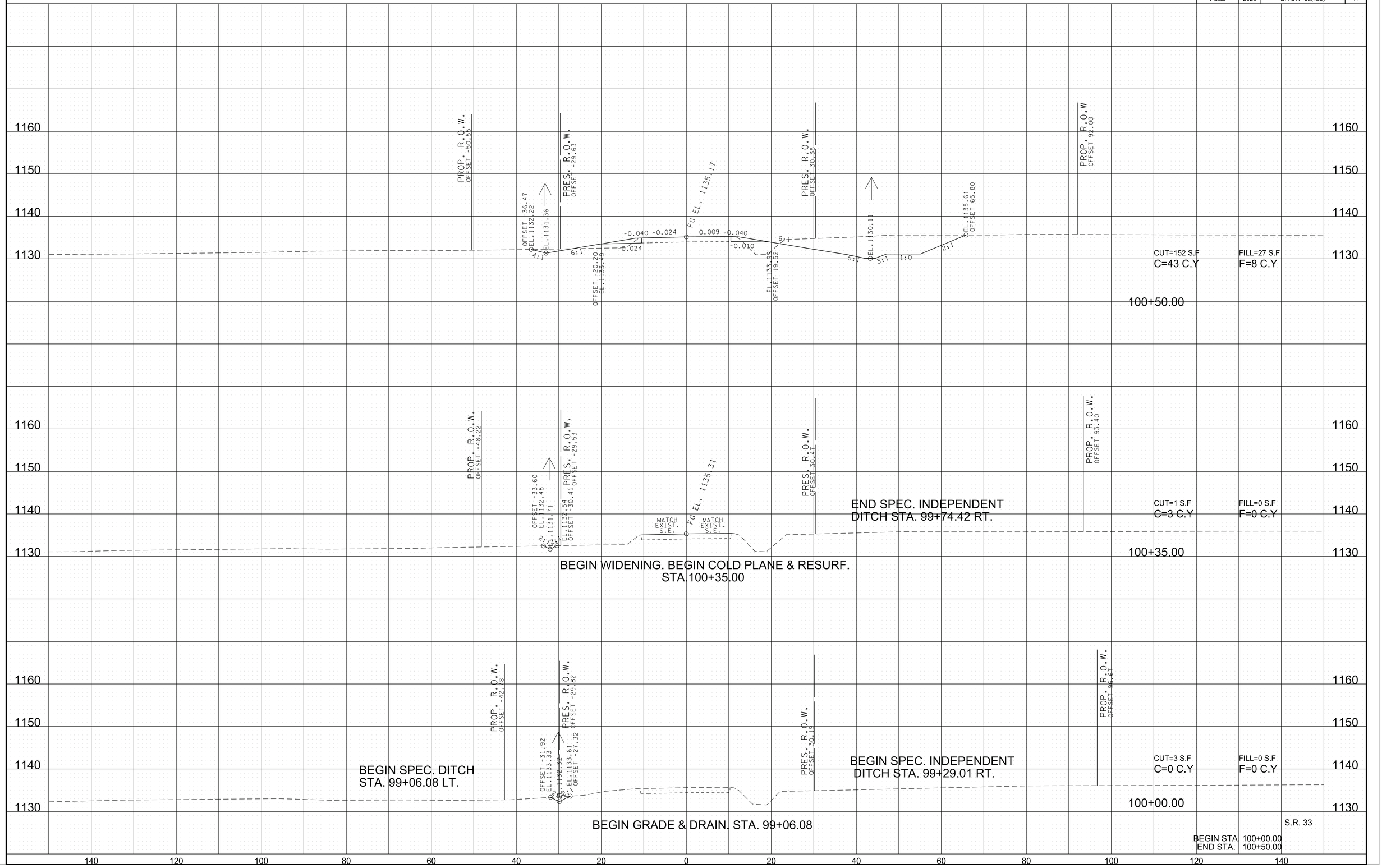
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE SHEET

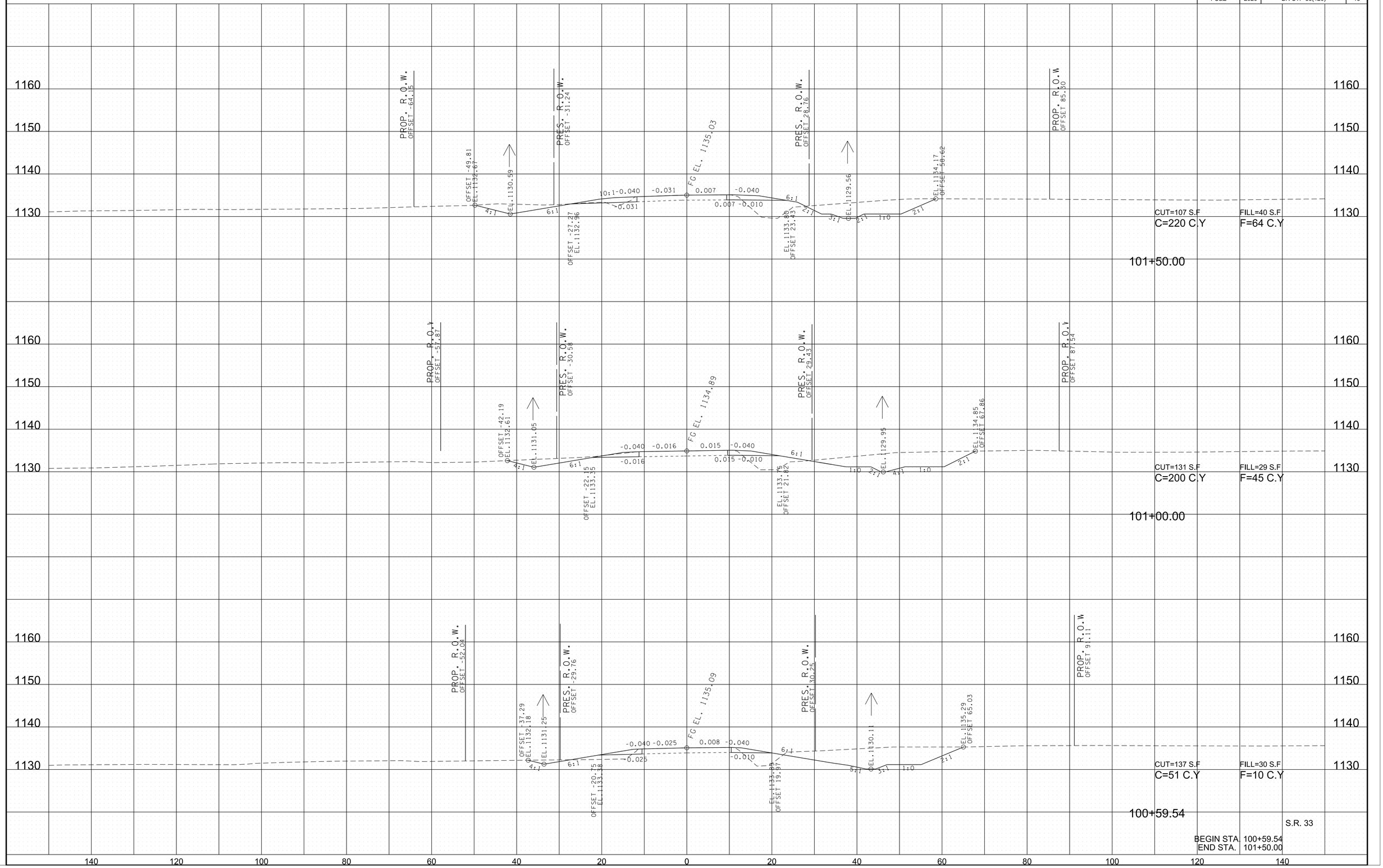
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	14
PS&E	2026	BR-STP-33(126)	14



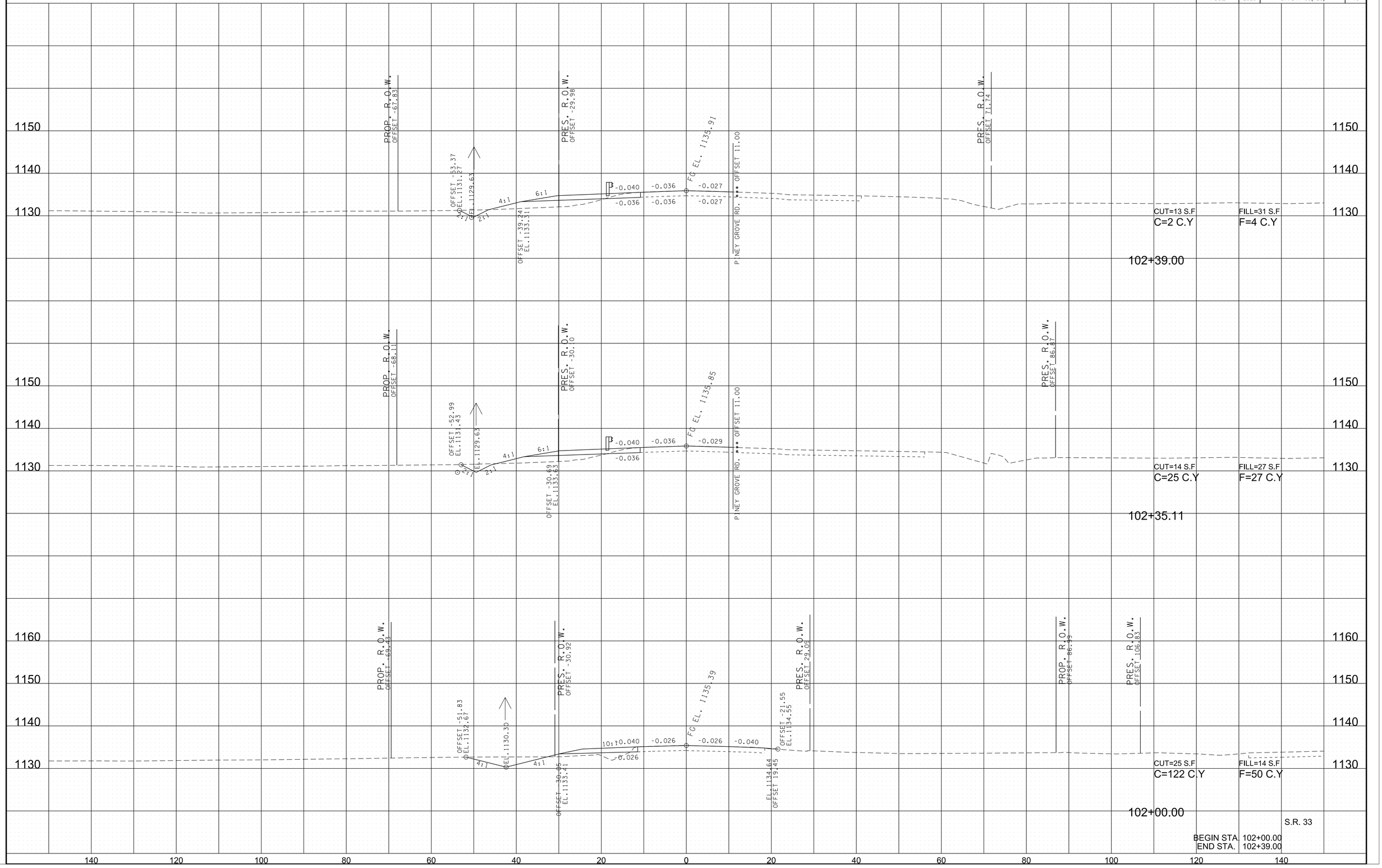
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	15
PS&E	2026	BR-STP-33(126)	15



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	16
PS&E	2026	BR-STP-33(126)	16



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	17
PS&E	2026	BR-STP-33(126)	17

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PROP. R.O.W.
OFFSET -63.39

PRES. R.O.W.
OFFSET -28.18

-0.043 -0.043 -0.014 -0.014

FG EL. 1136.43

PRES. R.O.W.
OFFSET 3.83

PROP. R.O.W.
OFFSET 58.38

103+00.00

PROP. R.O.W.
OFFSET -65.82

FG EL. 1136.27

-0.037 -0.037 -0.025 -0.025

PROP. R.O.W.
OFFSET 54.73

102+66.67

CUT=0 S.F
C=5 C.Y

FILL=0 S.F
F=21 C.Y

BEGIN BRIDGE
STA. 102+62.67

PROP. R.O.W.
OFFSET -67.03

PRES. R.O.W.
OFFSET -29.64

PRES. R.O.W.
OFFSET 30.39

PROP. R.O.W.
OFFSET 92.74

FG EL. 1136.06

OFFSET -53.88
EL.1130.52

EL.1129.47

3:1 6:1 2:1

-0.040 -0.037 -0.025 -0.040 6:1

-0.037 -0.037 -0.025 -0.025

EL.1134.06
OFFSET 32.67

EL.1134.16
OFFSET 28.70

END SPEC. DITCH
STA. 102+50.00 LT.

CUT=17 S.F
C=6 C.Y

FILL=67 S.F
F=20 C.Y

102+50.00

S.R. 33

BEGIN STA. 102+50.00
END STA. 103+00.00

1150 1140 1130 1120 1160

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	18
PS&E	2026	BR-STP-33(126)	18

PROP. R.O.W.
OFFSET -59.76

PRES. R.O.W.
OFFSET -28.84

PRES. R.O.W.
OFFSET 31.21

PROP. R.O.W.
OFFSET 63.84

OFFSET -48.92
EL. 1129.78

OFFSET -42.19
EL. 1133.14

FG EL. 1136.18

EL. 1132.36

EL. 1134.86
OFFSET 48.31

EL. 1134.84
OFFSET 23.43

CLASS A-1
RIP-RAP

6:1 2:1 6:1 4:1

-0.048 -0.048 -0.040 -0.048 -0.048 -0.040 -0.003 -0.003 -0.010

CUT=56 S.F
C=2 C.Y

FILL=83 S.F
F=3 C.Y

103+50.00

PROP. R.O.W.
OFFSET -59.83

PRES. R.O.W.
OFFSET -28.80

PRES. R.O.W.
OFFSET 31.25

PROP. R.O.W.
OFFSET 63.74

OFFSET -48.09
EL. 1129.79

OFFSET -40.83
EL. 1133.26

FG EL. 1136.19

EL. 1132.35

EL. 1134.87
OFFSET 48.43

EL. 1134.83
OFFSET 23.43

CLASS A-1
RIP-RAP

6:1 2:1 6:1 4:1

-0.048 -0.048 -0.040 -0.048 -0.048 -0.040 -0.004 -0.004 -0.010

CUT=56 S.F
C=27 C.Y

FILL=82 S.F
F=39 C.Y

BEGIN SPEC. DITCH
STA. 103+31.50 RT.

103+49.00

END BRIDGE
STA. 103+32.67

PROP. R.O.W.
OFFSET -61.70

PRES. R.O.W.
OFFSET -28.11

PRES. R.O.W.
OFFSET 31.90

PROP. R.O.W.
OFFSET 60.93

FG EL. 1136.34

-0.045 -0.045 -0.009 -0.009

CUT=0 S.F
C=0 C.Y

FILL=0 S.F
F=0 C.Y

103+23.33

S.R. 33

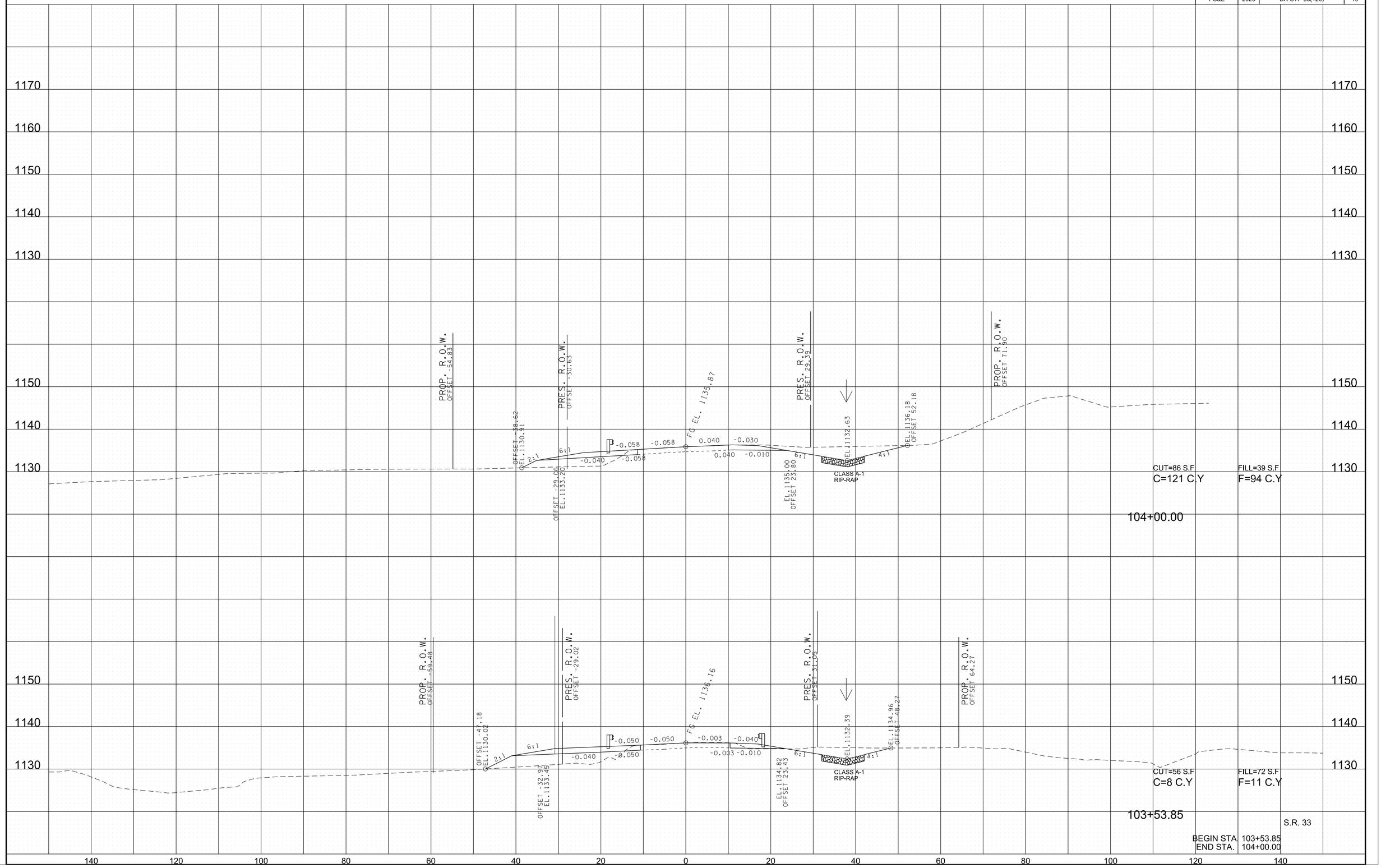
BEGIN STA. 103+23.33
END STA. 103+50.00

1160 1150 1140 1130 1120

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

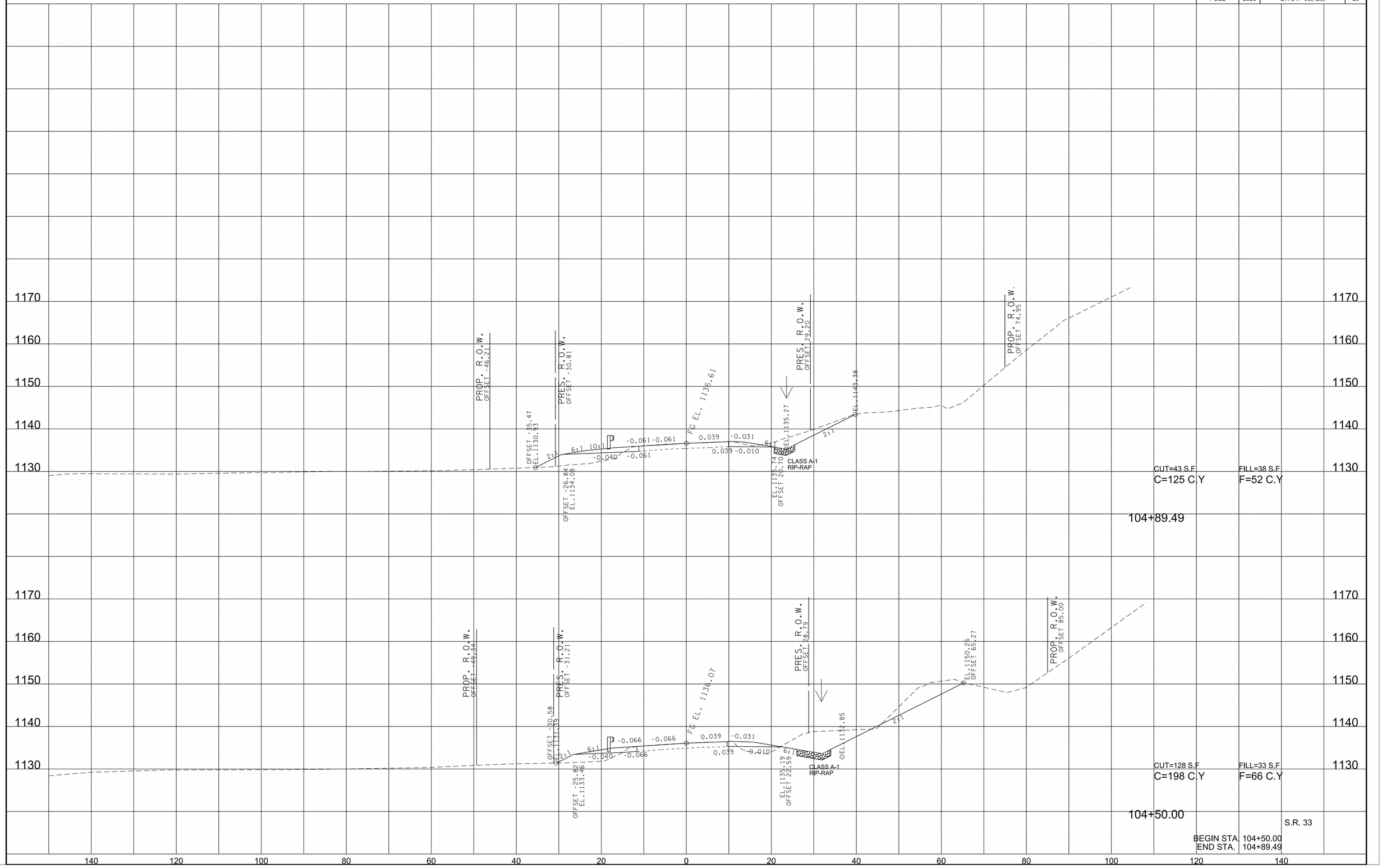
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	19
PS&E	2026	BR-STP-33(126)	19



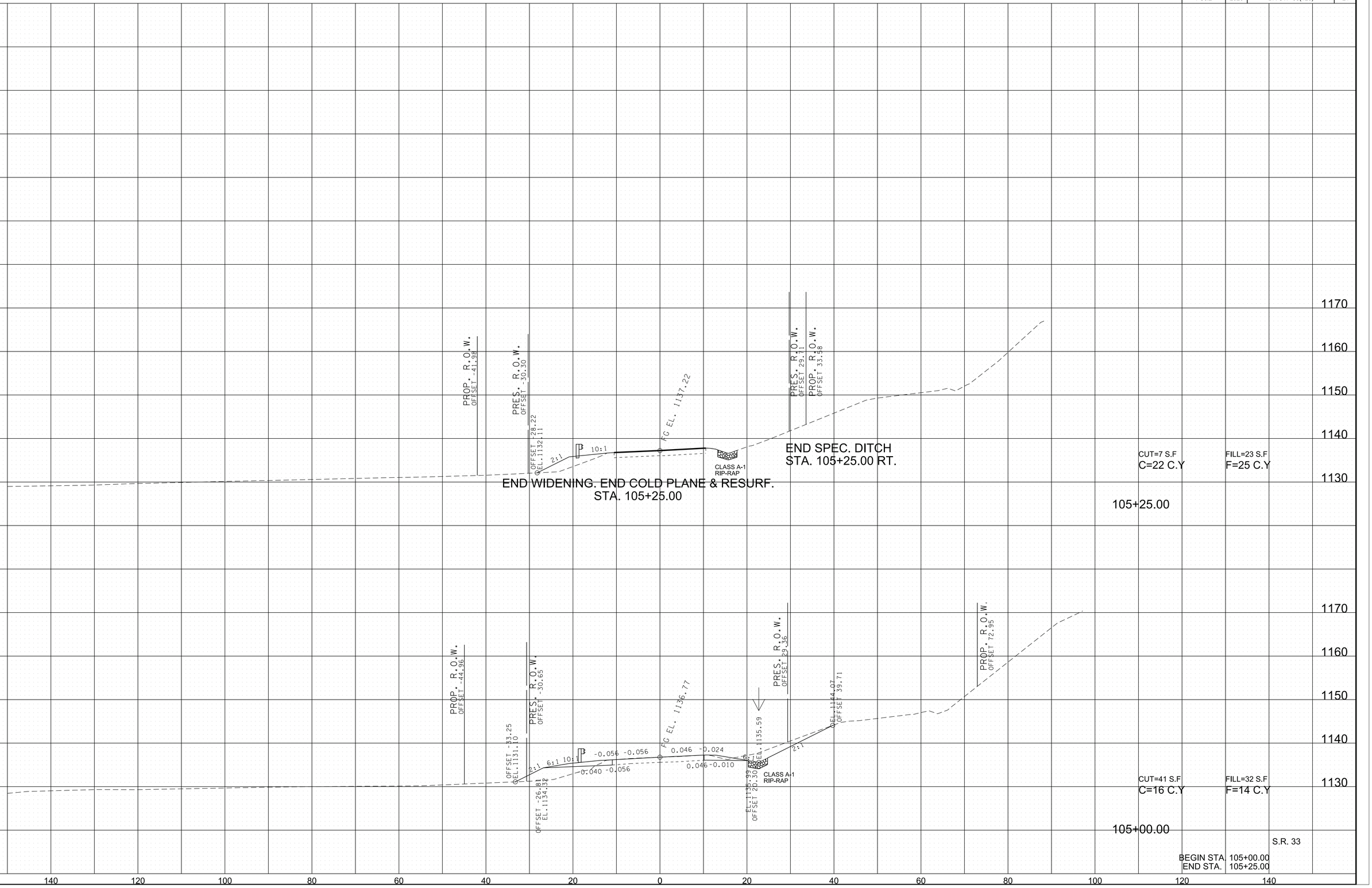
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	20
PS&E	2026	BR-STP-33(126)	20



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	21
PS&E	2026	BR-STP-33(126)	21



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	22
PS&E	2026	BR-STP-33(126)	22

PROP. R.O.W.
OFFSET -39.00

PRES. R.O.W.
OFFSET -29.50

PRES. R.O.W.
OFFSET 30.70

PRES. R.O.W.
OFFSET 30.08

OFFSET -28.35
EL. 1132.73

2:1

10:1

END GRADE AND DRAIN
STA. 105+84.00

CUT=0 S.F
C=0 C.Y

FILL=0 S.F
F=25 C.Y

106+00.00

CUT=0 S.F
C=3 C.Y

FILL=27 S.F
F=23 C.Y

105+50.00

S.R. 33

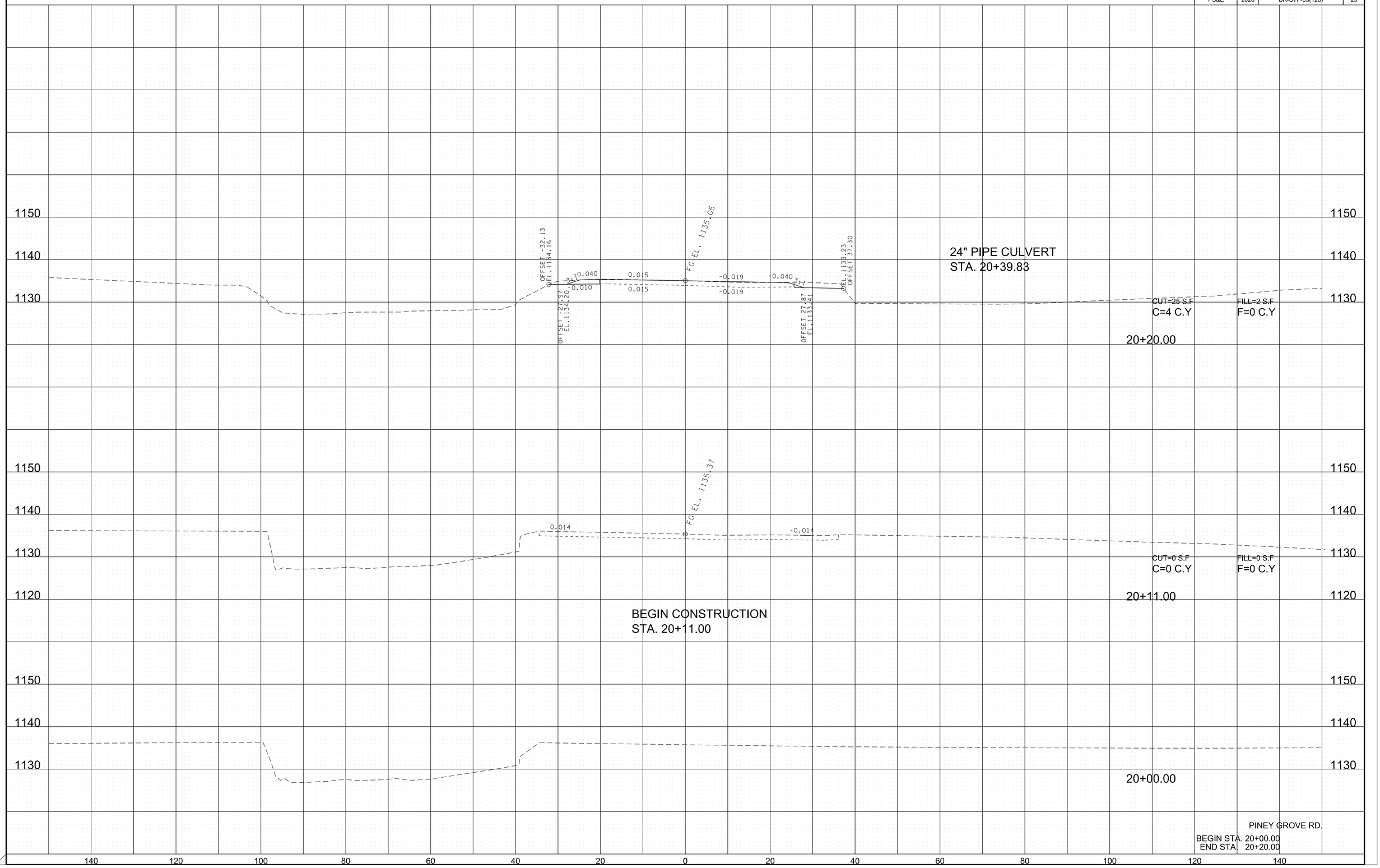
BEGIN STA. 105+50.00
END STA. 106+00.00

1170
1160
1150
1140
1130

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

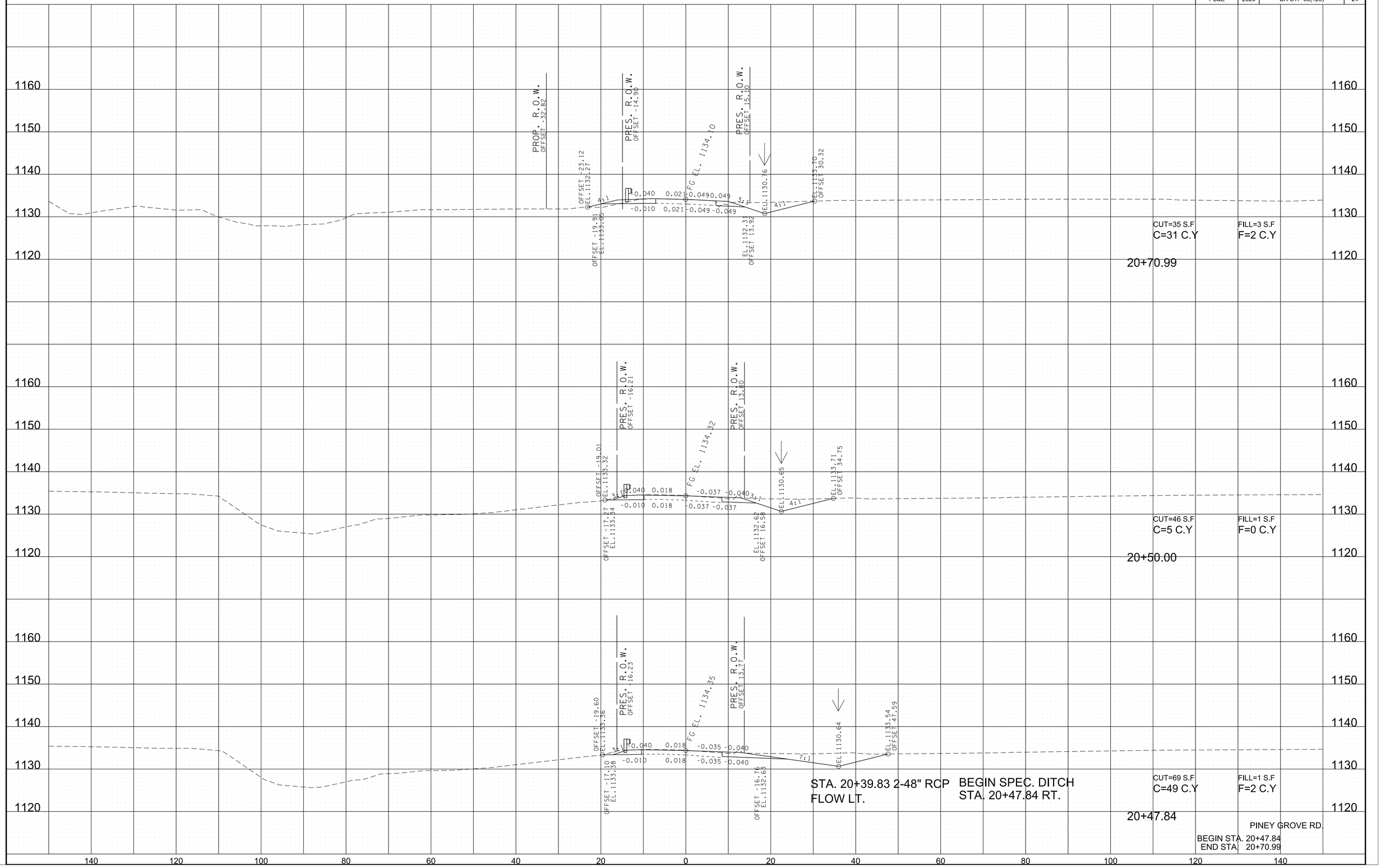
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	23
PS&E	2026	BR-STP-33(126)	23



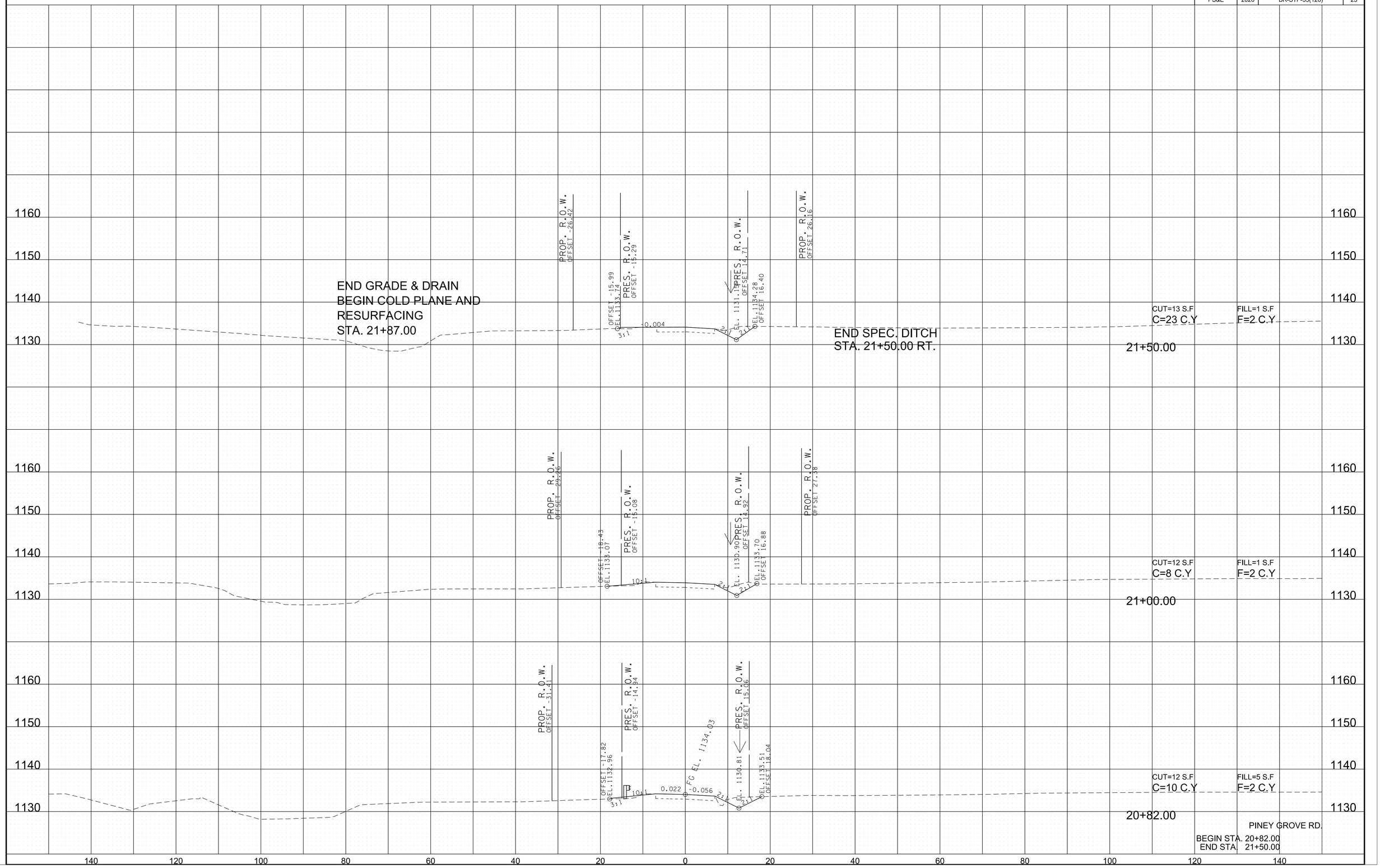
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	24
PS&E	2026	BR-STP-33(126)	24



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	25
PS&E	2026	BR-STP-33(126)	25



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	26
PS&E	2026	BR-STP-33(126)	26

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1160
1150
1140

PRES. R.O.W.
OFFSET -15.11

PRES. R.O.W.
OFFSET 14.89

22+50.00

PROP. R.O.W.
OFFSET -22.22

PRES. R.O.W.
OFFSET -15.11

PRES. R.O.W.
OFFSET 14.89

LIMIT OF CONSTRUCTION
END COLD PLANE & RESURF.
STA. 22+08.00

CUT=0 S.F
C=0 C.Y

FILL=0 S.F
F=0 C.Y

22+08.00

PROP. R.O.W.
OFFSET -24.27

PRES. R.O.W.
OFFSET -15.13

PRES. R.O.W.
OFFSET 14.87

PROP. R.O.W.
OFFSET 15.23

CUT=0 S.F
C=0 C.Y

FILL=0 S.F
F=1 C.Y

22+00.00

PINEY GROVE RD.
BEGIN STA. 22+00.00
END STA. 22+50.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T1
PS&E	2026	BR-STP-33(126)	T1

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

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

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE REGIONAL TRAFFIC ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO 6 INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

   IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.

   a. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

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

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

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

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

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

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T2
PS&E	2026	BR-STP-33(126)	T2

TRAFFIC CONTROL SIGN TABULATION

M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L	X	W	S.F.	NO. REQUIRED PHASE I	NO. REQUIRED PHASE II	NO. REQUIRED PHASE III	NO. REQUIRED PHASE IV	NO. REQUIRED PHASE V	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
G20-2	END ROAD WORK	36"		18"	5	4	4				4	18.00	T-WZ-32	
R10-6	STOP HERE ON RED	24"		36"	6	3	3				3	18.00	T-WZ-32	
R10-6	STAY IN LANE TO EXTED GREEN	30"		42"	9	3	3				3	26.25	T-WZ-32	
	MAINTAIN XX MPH SPEED	42"		36"	11	2	2				2	21.00	T-WZ-32	
W3-3	SIGNAL	36"		36"	9	3	3				3	27.00	T-WZ-32	
W3-4	BE PREPARED TO STOP	36"		36"	9	3	3				3	27.00	T-WZ-35	
W5-1	ROAD NARROWS	36"		36"	9	2	2				2	18.00		SEE MUTCD FOR INFORMATION
W8-1	UNEVEN LANES	36"		36"	9	2	2				2	18.00		SEE MUTCD FOR INFORMATION
W8-17	SHOULDER DROP-OFF	36"		36"	9	2	2				2	18.00		SEE MUTCD FOR INFORMATION
W8-17P	SHOULDER DROP-OFF SUPPLEMENTAL	24"		18"	3	2	2				2	6.00		SEE MUTCD FOR INFORMATION
W20-01	ROAD WORK 1/2 MILE	36"		36"	9	3	3				3	27.00	T-WZ-32	
W20-2	DETOUR AHEAD	36"		36"	9	1					1	9.00		WIDE LOAD DETOUR
W20-4	ROAD WORK 1 MILE	36"		36"	9	3	3				3	27.00		
W20-4	ONE LANE ROAD 1/2 MILE	36"		36"	9	3	3				3	27.00		
W20-4	ONE LANE ROAD 1500 FT	36"		36"	9	3	3				3	27.00		SEE MUTCD FOR INFORMATION
W20-4	ONE LANE ROAD AHEAD	36"		36"	9	2	2				2	18.00		SEE MUTCD FOR INFORMATION
W20-7	FLAGGER	36"		36"	9	2	2				2	18.00		SEE MUTCD FOR INFORMATION
W1-4	LANE SHIFT RIGHT	36"		36"	9	3	3				3	27.00	T-WZ-32	
M3-2	EAST PLAQUE	24"		12"	2	6					6	12.00		WIDE LOAD DETOUR
M3-4	WEST PLAQUE	24"		12"	2	7					7	14.00		WIDE LOAD DETOUR
M4-8	DETOUR PLAQUE	24"		12"	2	14					14	28.00		WIDE LOAD DETOUR
M4-8A	END DETOUR	24"		18"	3	3					3	9.00		WIDE LOAD DETOUR
M6-1L	ARROW LEFT PLAQUE	21"		15"	2	2					2	4.38		WIDE LOAD DETOUR
M6-1R	ARROW RIGHT PLAQUE	21"		15"	2	2					2	4.38		WIDE LOAD DETOUR
M6-3	ARROW UP PLAQUE	21"		15"	2	9					9	19.69		WIDE LOAD DETOUR
TN-6A	SR 33	36"		36"	9	17					17	153.00		WIDE LOAD DETOUR
	CLOSED TO WIDE LOAD	60"		30"	13	7					7	87.50		WIDE LOAD DETOUR
	WIDE LOAD PLAQUE	30"		15"	3	18					18	56.25		WIDE LOAD DETOUR

(1) SIGNS ARE NOT RELOCATED IN BETWEEN PHASES.

(1) **TOTAL 765 S.F.**

TABULATED TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PHASE I QUANTITY 13004-3216-94	PHASE II QUANTITY	PHASE III QUANTITY	TOTAL QUANTITY
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	165	165		330
	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	60	60		120
	712-02.60	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	3	3		6
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	26	26		52
	712-04.50	BARRIER RAIL DELINEATOR	EACH	5	5		10
	712-06	SIGNS (CONSTRUCTION)	S.F.	601	160		761
(1)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	12	12		24
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	12	12		24
	712-09.08	REMOVABLE PAVEMENT MARKING (6" line)	L.F.	518	518		1036
	712-09.31	REMOVABLE BLACK-OUT TAPE (8IN)	L.F.	518	518		1036
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4			4
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.3	0.3		0.6
(2)(6)	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1	1		1

(1) TO BE USED AS DIRECTED BY THE ENGINEER.
(2) TO BE USED AT PRIVATE DRIVES.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY CRASH CUSHION
	ARROW BOARD TYPE C
	TEMPORARY TRAFFIC SIGNAL

NOTES

(1) THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

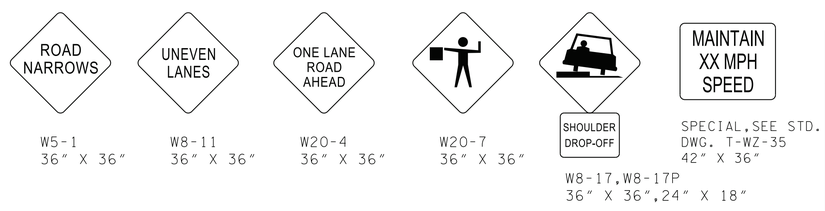
(2) THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

(3) THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

(4) 2 FLAGS ARE TO BE MOUNTED ON ALL ROAD WORK ADVANCE WARNING SIGNS. FLAGS ARE TO BE 18" X 18" AND FLOURESCENT RED-ORANGE IN COLOR. COST OF FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

(5) THE FOLLOWING SIGNS TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE LOCATED AS DIRECTED BY THE T.D.O.T. MANAGER.

(6) TEMPORARY TRAFFIC SYSTEM SHALL HAVE ACTIVE VICHICLE DETECTION FOR S.R. 33 AND PINEY GROVE RD. IF INDUCTIVE LOOPS ARE USED. THE PAVEMENT SHALL BE REPAIRED AFTER TRAFFIC SIGNAL SYSTEM IS REMOVED.



W5-1 36" X 36"
W8-11 36" X 36"
W20-4 36" X 36"
W20-7 36" X 36"
W8-17,W8-17P 36" X 36",24" X 18"
SPECIAL,SEE STD. DWG. T-WZ-35 42" X 36"

SEALED BY

STACY L. WEAVER REGISTERED ENGINEER AGRICULTURE 111923 COMMERCE STATE OF TENNESSEE

7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC LEGEND AND TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T3
PS&E	2026	BR-STP-33(126)	T3

PHASE 1

INSTALL CONSTRUCTION SIGNS AND THE TEMPORARY TRAFFIC SIGNAL ON SR 33 AND PINEY GROVE ROAD. INSTALL DRUMS AND PORTABLE CONCRETE BARRIER TO REDUCE SR 33 TO A SINGLE LANE AS SHOWN ON THE TRAFFIC CONTROL PLANS. WIDEN SR 33 AND PINEY GROVE ROAD. DEMOLISH THE EXISTING LEFT PORTION OF THE BRIDGE AND CONSTRUCT THE PROPOSED BRIDGE AS SHOWN ON THE BRIDGE PLANS. CONSTRUCT ROADWAY APPROACHES TO THE PROPOSED BRIDGE. INSTALL TEMPORARY PAVEMENT USED FOR PHASE 2 TRAFFIC OPERATIONS.

PHASE 2

SHIFT PORTABLE CONCRETE BARRIER AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN PHASE 2 OF THE TRAFFIC CONTROL PLANS. ADJUST TEMPORARY SIGNALS AND SIGNS AS NEEDED. SHIFT TRAFFIC TO THE TEMPORARY AND NEWLY CONSTRUCTED ROADWAY AND BRIDGE BUILT IN PHASE 1, MAINTAINING ONE-LANE TRAFFIC. DEMOLISH THE REMAINING RIGHT PORTION OF THE EXISTING BRIDGE AND CONSTRUCT THE PROPOSED BRIDGE AS SHOWN ON THE BRIDGE PLANS. CONSTRUCT ROADWAY APPROACHES TO THE PROPOSED BRIDGE.

PHASE 3

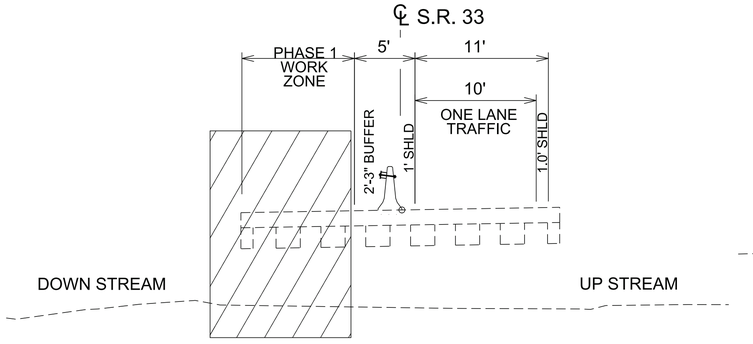
COMPLETE INSTALLATION OF GUARDRAIL ON THE LEFT SIDE OF SR 33. COLD PLANE AND RESURFACE SR 33 AND PINEY GROVE ROAD WITHIN THE CONSTRUCTION LIMITS. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES. REMOVE TEMPORARY PAVEMENT USED FOR PHASE 2 TRAFFIC OPERATIONS.

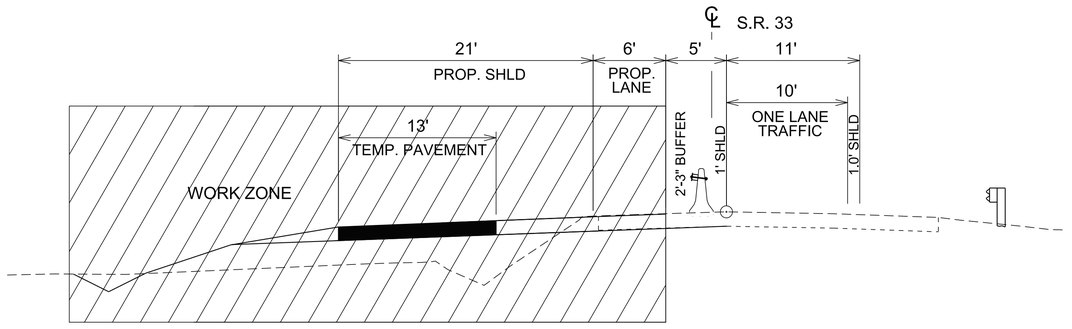
NOTE:

EXISTING BRIDGE NO 13SR0330009 SHALL BE INSPECTED BY TDOT AFTER PHASE I DEMOLITION AND BEFORE OPENING TO PHASE II TRAFFIC. WEIGHT POSTING LIMITS SHALL NOT BE VIOLATED.

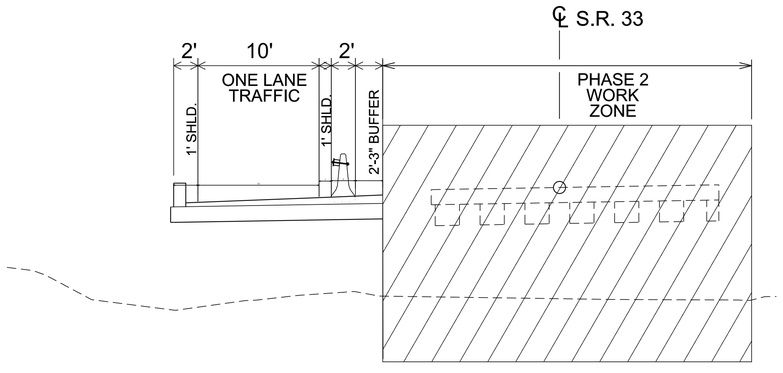
TEMPORARY PORTABLE BARRIER RAIL IS TO BE STIFFENED ACROSS THE EXISTING BRIDGE FOLLOWING THE STANDARD DRAWING T-WZ-PCB4.

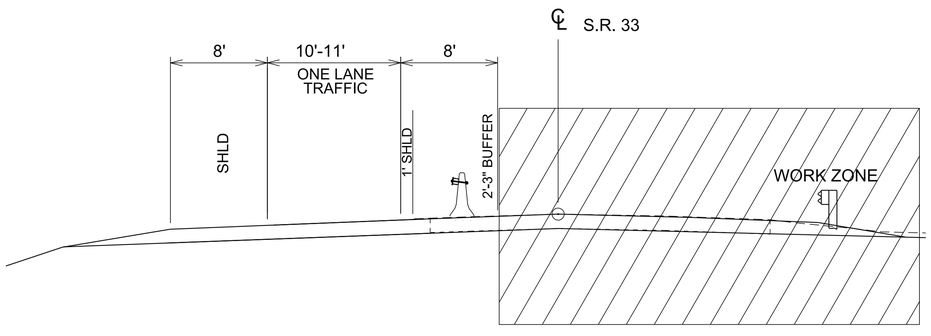
SEE STANDARD T-WZ-PCB2A FOR PORTABLE CONCRETE BARRIER RAIL STIFFNER TUBE DETAILS.





PHASE 1 TYPICAL





PHASE 2 TYPICAL

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STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
111923
STATE OF TENNESSEE

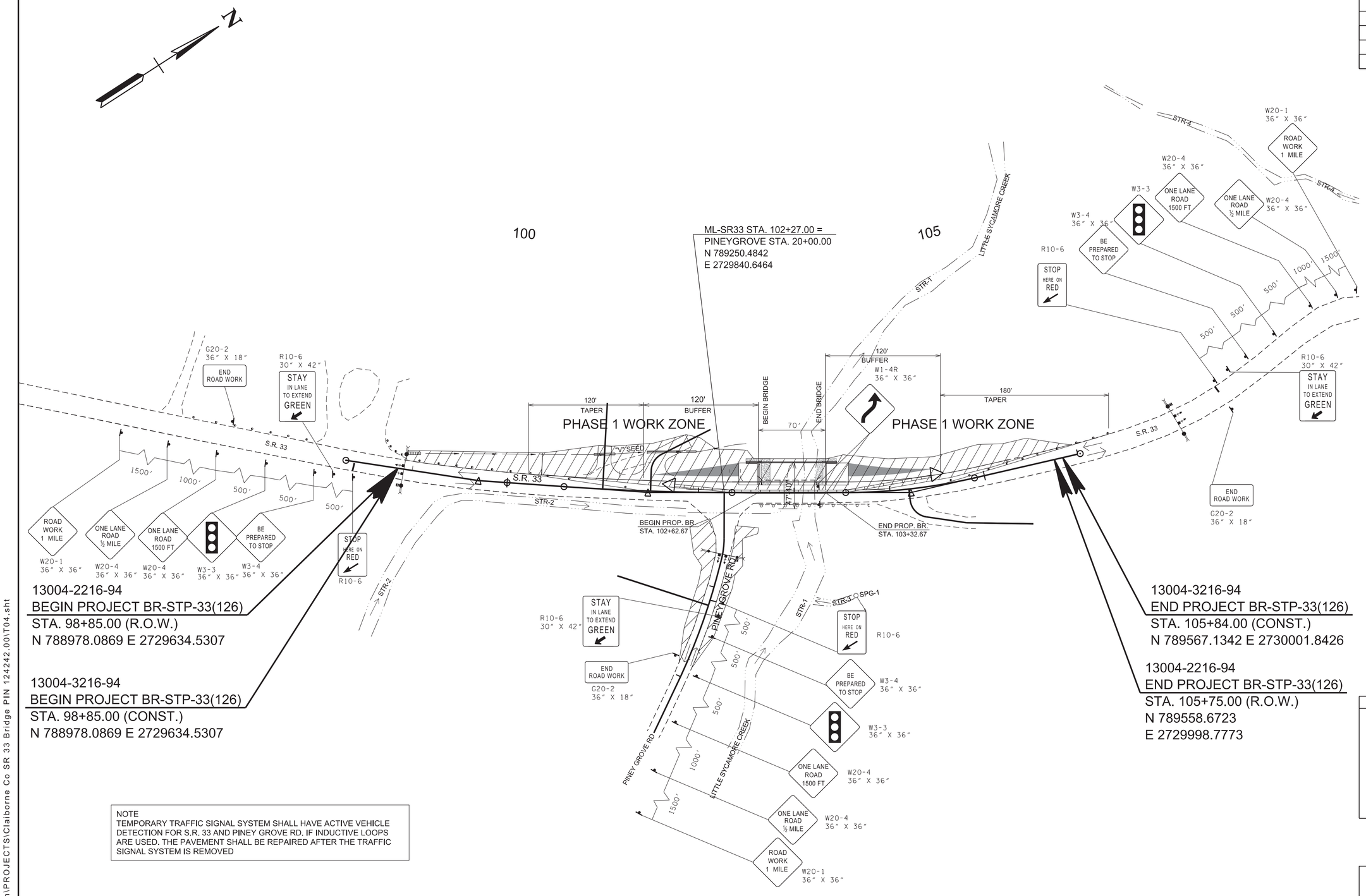
7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T4
PS&E	2026	BR-STP-33(126)	T4



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTE
TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL HAVE ACTIVE VEHICLE DETECTION FOR S.R. 33 AND PINEY GROVE RD. IF INDUCTIVE LOOPS ARE USED. THE PAVEMENT SHALL BE REPAIRED AFTER THE TRAFFIC SIGNAL SYSTEM IS REMOVED

TEMPORARY PAVEMENT

REFERE TO STANDARD DWG T-WZ-32, T-WZ-34 & T-WZ-35

PHASE I

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STACY L. WEAVER
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AGRICULTURE
No. 111932
COMMENCE
STATE OF TENNESSEE
7/21/26

COORDINATES ARE NAD 83(1995), 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.

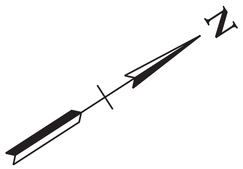
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

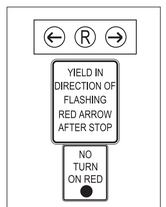
TRAFFIC CONTROL PLANS

STA. 98+85 TO STA. 105+84
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T5
PS&E	2026	BR-STP-33(126)	T5





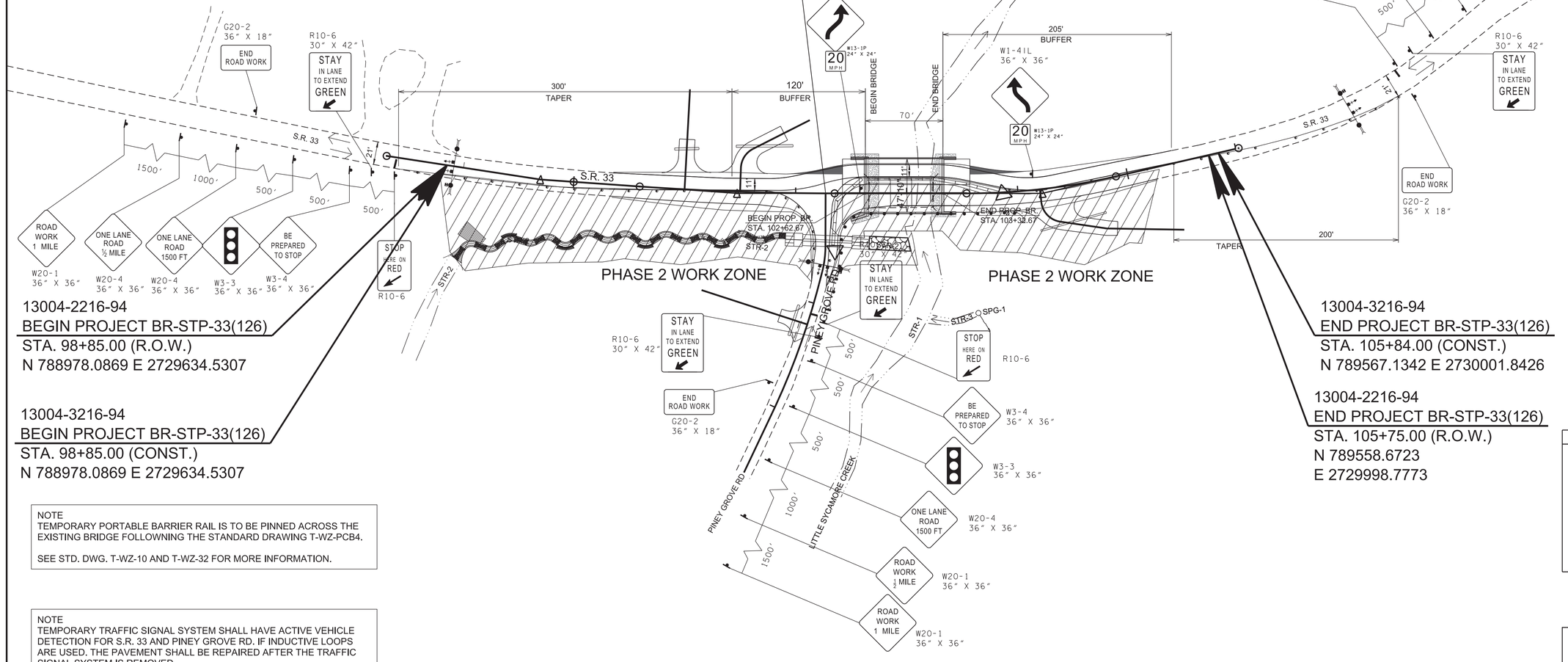
RESIDENTIAL DRIVEWAY TEMPORARY SIGNALS

NOTE:
RESIDENTIAL DRIVEWAY TEMPORARY SIGNALS, SHALL BE USED FOR DRIVEWAY TRAFFIC CONTROL WHILE THE TEMPORARY TRAFFIC CONTROL SIGNAL IS IN PLACE. THE COST OF THESE ITEMS WILL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL SYSTEM, ITEM NO. 730-40.02.

100

105

ML-SR33 STA. 102+27.00 =
PINEYGROVE STA. 20+00.00
N 789250.4842
E 2729840.6464



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

NOTE
TEMPORARY PORTABLE BARRIER RAIL IS TO BE PINNED ACROSS THE EXISTING BRIDGE FOLLOWNING THE STANDARD DRAWING T-WZ-PCB4.

SEE STD. DWG. T-WZ-10 AND T-WZ-32 FOR MORE INFORMATION.

NOTE
TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL HAVE ACTIVE VEHICLE DETECTION FOR S.R. 33 AND PINEY GROVE RD. IF INDUCTIVE LOOPS ARE USED. THE PAVEMENT SHALL BE REPAIRED AFTER THE TRAFFIC SIGNAL SYSTEM IS REMOVED

TEMPORARY PAVEMENT

REFERE TO STANDARD DWG T-WZ-32, T-WZ-34 & T-WZ-35

PHASE II

SEALED BY



7/21/26

COORDINATES ARE NAD 83(1995), 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.

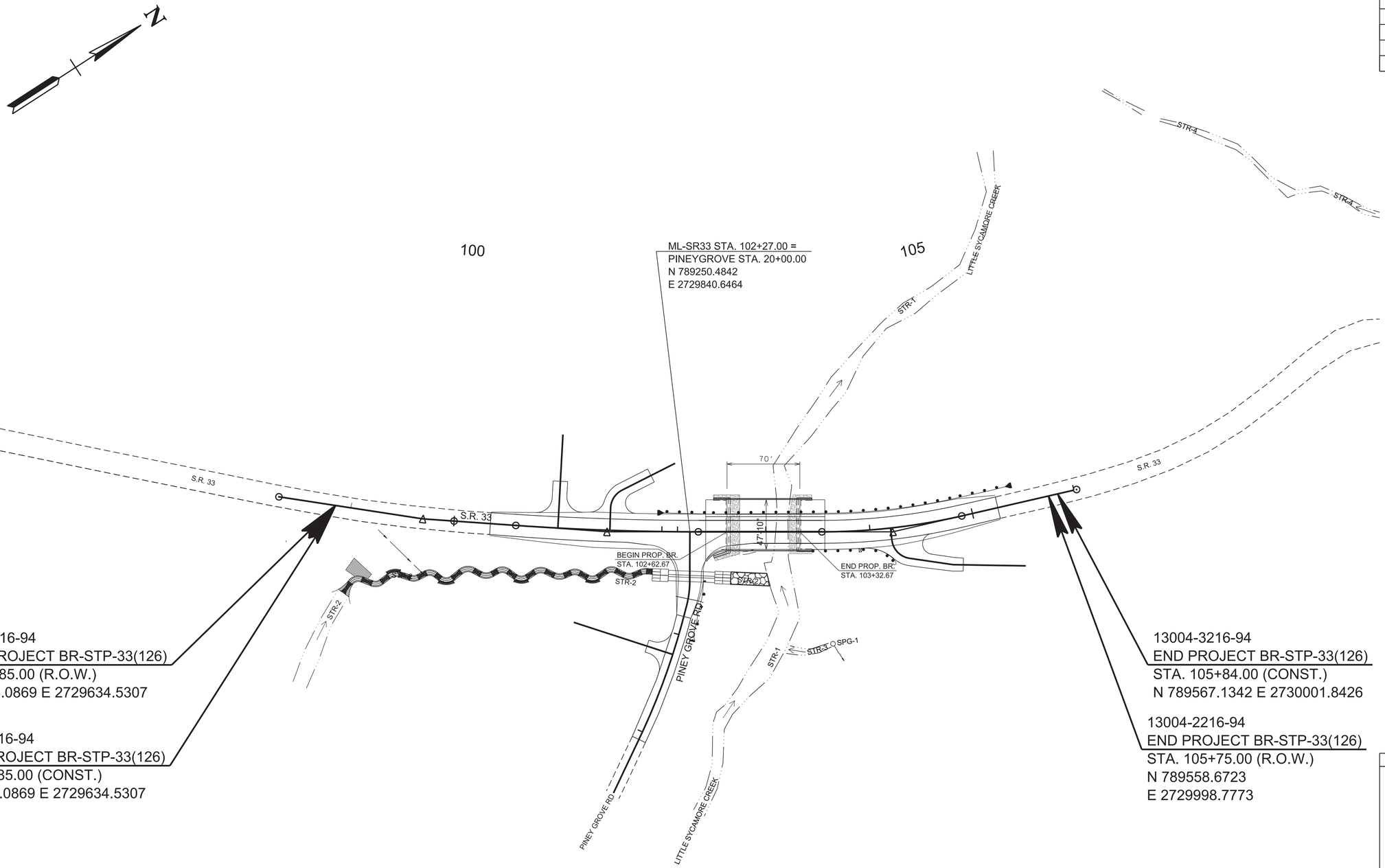
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 98+85 TO STA. 105+84
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	T6
PS&E	2026	BR-STP-33(126)	T6



13004-2216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (R.O.W.)
N 788978.0869 E 2729634.5307

13004-3216-94
BEGIN PROJECT BR-STP-33(126)
STA. 98+85.00 (CONST.)
N 788978.0869 E 2729634.5307

13004-3216-94
END PROJECT BR-STP-33(126)
STA. 105+84.00 (CONST.)
N 789567.1342 E 2730001.8426

13004-2216-94
END PROJECT BR-STP-33(126)
STA. 105+75.00 (R.O.W.)
N 789558.6723
E 2729998.7773

PHASE III

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 111952
STATE OF TENNESSEE

7/21/26

COORDINATES ARE NAD 83(1995), 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. 98+85 TO STA. 105+84
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	T7

CLAIBORNE COUNTY
SR 33 TRAFFIC CONTROL
WIDE LOAD DETOUR

N

CLAIBORNE COUNTY

HANCOCK COUNTY

PROJECT LOCATION

Little Sycamore Rd

PINEY GROVE RD.

PINEY GROVE RD.

25E

345

63

33

66

131

32

CHANGEABLE MESSAGE SIGN

S.R.33 WEST CLOSED TO WIDE LOADS OVER 10 FT. WIDTH
60" X 30"

S.R.33 EAST CLOSED TO WIDE LOADS OVER 10 FT. WIDTH
60" X 30"

WIDE LOAD 30" X 15"
END DETOUR M4-8A 24" X 18"
33 TN-6A 24" X 24"

WIDE LOAD 30" X 15"
DETOUR AHEAD W20-2 36" X 36"

WIDE LOAD 30" X 15"
DETOUR
WEST
33 TN-6A 24" X 24"
M4-8 24" X 12"
M3-4 24" X 12"
M6-1R 21" X 15"

WIDE LOAD 30" X 15"
DETOUR
WEST
33 TN-6A 24" X 24"
M4-8 24" X 12"
M3-4 24" X 12"
M6-3 21" X 15"

WIDE LOAD 30" X 15"
DETOUR
EAST
33 TN-6A 24" X 24"
M4-8 24" X 12"
M3-2 24" X 12"
M6-1L 21" X 15"

WIDE LOAD 30" X 15"
DETOUR
EAST
33 TN-6A 24" X 24"
M4-8 24" X 12"
M3-2 24" X 12"
M6-3 21" X 15"

WIDE LOAD 30" X 15"
DETOUR
WEST
33 TN-6A 24" X 24"
M4-8 24" X 12"
M3-4 24" X 12"
M6-3 21" X 15"

WIDE LOAD 30" X 15"
END DETOUR M4-8A 24" X 18"
33 TN-6A 24" X 24"

WIDE LOAD 30" X 15"
END DETOUR M4-8A 24" X 18"
33 TN-6A 24" X 24"

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	SIGNS (CONSTRUCTION)
I	CHANGEABLE MESSAGE SIGN
▬▬▬▬	DETOUR ROUTE

NOTE:
DETOUR SIGN LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL PLACEMENT LCOATIONS SHOULD BE COORDINATED WITH TDOT BEFORE ORDERING OR SETTING OF ANY SIGNS.

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMENCE
No. 111923
STATE OF TENNESSEE

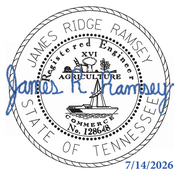
7/21/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL WIDE LOAD DETOUR ROUTE

SCALE: 1"= 5280'

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

JAMES RIDGE RAMSEY

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

TENNESSEE DEPARTMENT OF TRANSPORTATION
W.R.S. TENNESSEE TOWER, 2ND FLOOR
312 ROSA PARKS AVENUE
NASHVILLE, TN 37243
JAMES RIDGE RAMSEY, P.E. NO. 128648

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	BRIDGE-SIGN1
INDEX OF DRAWINGS	U-101-130
LAYOUT OF BRIDGE	U-101-131
GENERAL NOTES	U-101-132
ESTIMATED QUANTITIES	U-101-133
SUPERSTRUCTURE	U-101-136
SUPERSTRUCTURE DETAILS	U-101-137
SUPERSTRUCTURE DETAILS	U-101-138
SUPERSTRUCTURE DETAILS	U-101-139
PHASE CONSTRUCTION DETAIL	U-101-140
PRESTRESSED BOX BEAM DETAILS	U-101-141
ABUTMENT NO. 1	U-101-142
ABUTMENT NO. 1 DETAILS	U-101-143
ABUTMENT NO. 1 DETAILS	U-101-144
ABUTMENT NO. 1 DETAILS	U-101-144A
ABUTMENT NO. 2	U-101-145
ABUTMENT NO. 2 DETAILS	U-101-146
ABUTMENT NO. 2 DETAILS	U-101-147
BILL OF STEEL	U-101-149

YEAR	PROJECT NO.	SHEET NO.
2026	BR-STP-33(126)	BRIDGE-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

$$$$$SYTIME$$$$$$$

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	B-1

REVISIONS

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

LIST OF DRAWINGS	DWG. NO.	LAST REV. DATE
SIGNATURE SHEET	BRIDGE-SIGN1	
INDEX OF DRAWINGS	U-101-130	
LAYOUT OF BRIDGE	U-101-131	
GENERAL NOTES	U-101-132	
ESTIMATED QUANTITIES	U-101-133	
FOUNDATION DATA	U-101-134	
FOUNDATION DATA	U-101-135	
SUPERSTRUCTURE	U-101-136	
SUPERSTRUCTURE DETAILS	U-101-137	
SUPERSTRUCTURE DETAILS	U-101-138	
SUPERSTRUCTURE DETAILS	U-101-139	
PHASE CONSTRUCTION DETAIL	U-101-140	
PRESTRESSED BOX BEAM DETAILS	U-101-141	
ABUTMENT NO. 1	U-101-142	
ABUTMENT NO. 1 DETAILS	U-101-143	
ABUTMENT NO. 1 DETAILS	U-101-144	
ABUTMENT NO. 1 DETAILS	U-101-144A	
ABUTMENT NO. 2	U-101-145	
ABUTMENT NO. 2 DETAILS	U-101-146	
ABUTMENT NO. 2 DETAILS	U-101-147	
FINAL FOUNDATION DATA	U-101-148	
BILL OF STEEL	U-101-149	

LIST OF STANDARD DRAWINGS	DWG. NO.	LAST REV. DATE
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	05-28-2026
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-2023
STANDARD CONCRETE RAIL	STD-7-1	04-15-2020
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-2008
MISC. ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-2023
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS DETAILS	STD-10-2	06-05-2023
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-2024
SPECIAL CASE GUARDRAIL ATTACHMENT TO CONCRETE DECKS	S-GRS-2	01-28-2022
20 FOOT PORTABLE CONCRETE BARRIER RAIL	T-WZ-PCB2	03-26-2025
20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE	T-WZ-PCB2A	03-26-2025

SEALED BY

JAMES RIDGE RAMSEY
LICENSED PROFESSIONAL ENGINEER
XVI
AGRICULTURE
GUNNERS
STATE OF TENNESSEE
7/14/2026

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-130

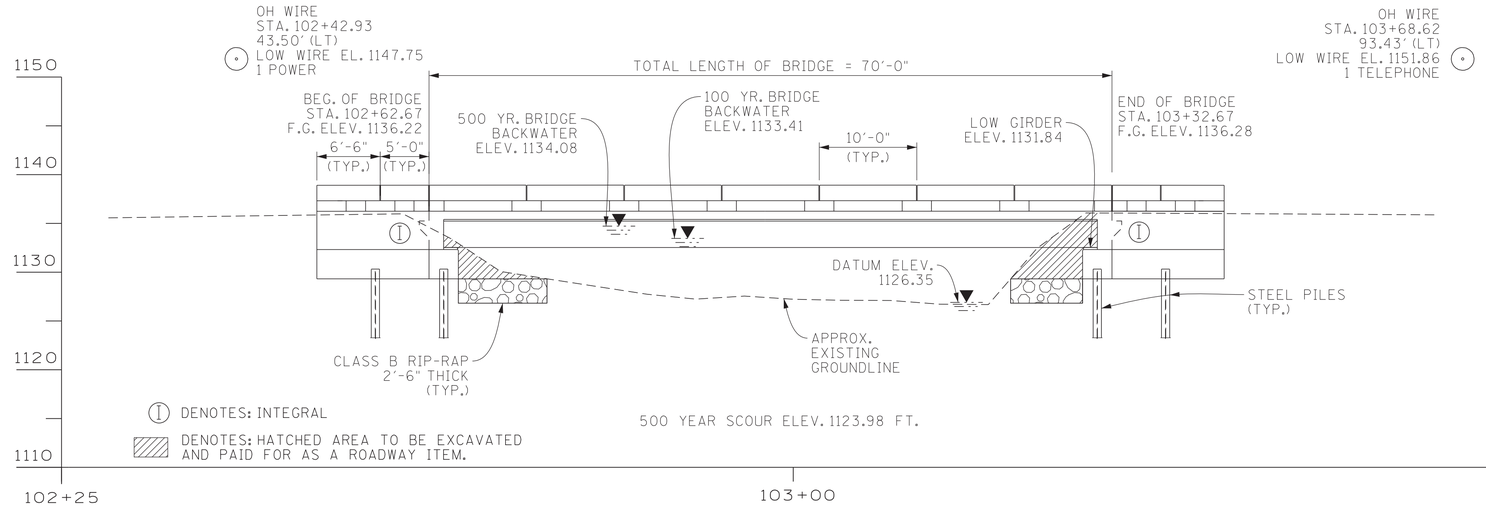
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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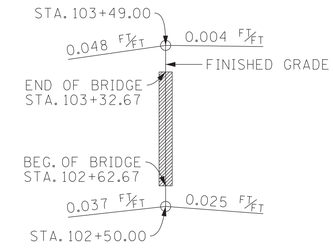


ELEVATION

(1" = 10'-0" SCALE)

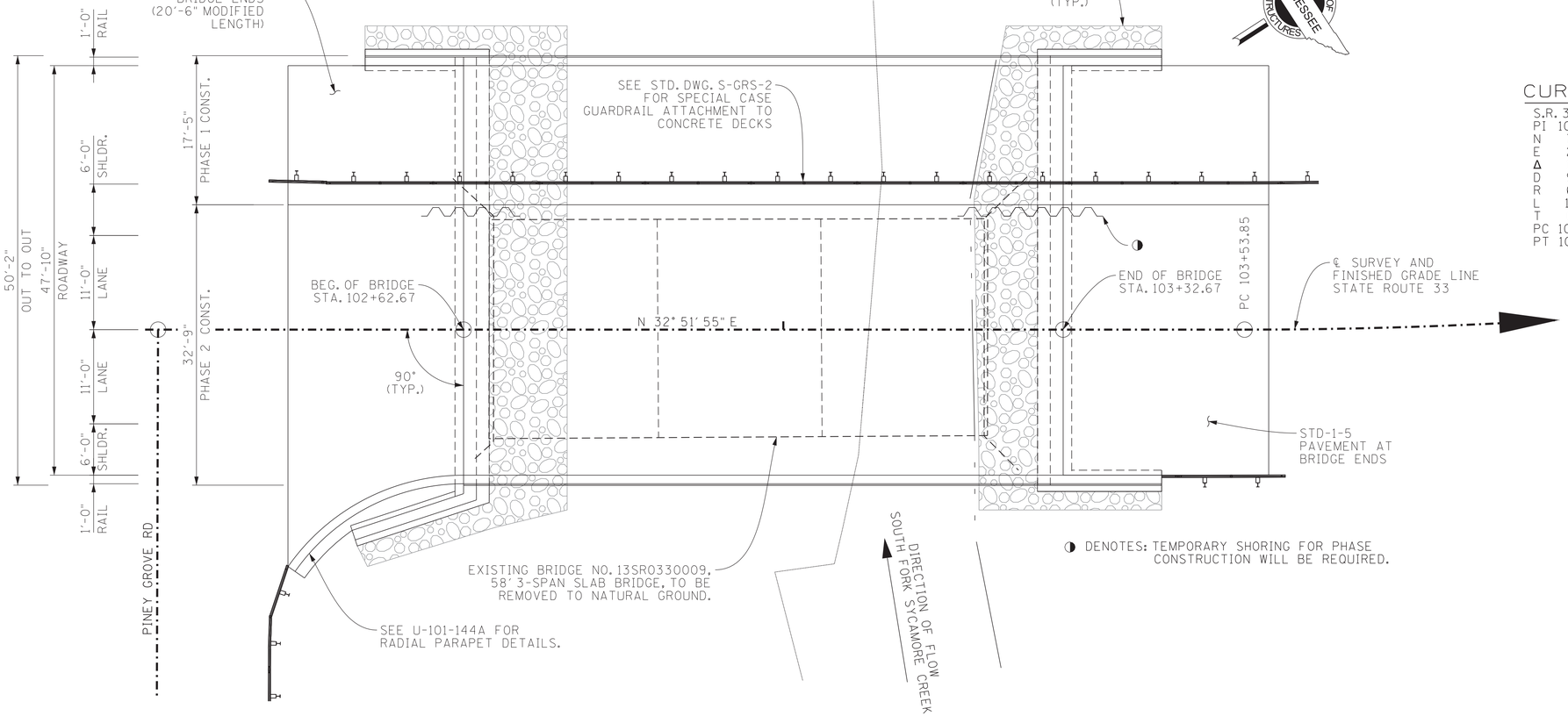
HYDRAULIC DATA

DRAINAGE AREA = 5.29 MI.²
DESIGN DISCHARGE (100 YR.) = 1,560 CFS
WATER AREA BELOW EL. 1132.09 = 214.48 FT.²
100 YEAR VELOCITY = 7.27 FPS
100 YR. BRIDGE BACKWATER = 1.09 FT. @ EL. 1133.41
ROADWAY OVERTOPPING ELEVATION = 1136.26 FT.
100 YEAR DISCHARGE 1,560 CFS @ EL. 1133.41
500 YEAR DISCHARGE 2,140 CFS @ EL. 1134.08



TRANSITION SKETCH

(N.T.S.)

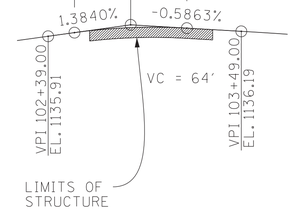


PLAN

(1" = 10'-0" SCALE)

CURVE DATA

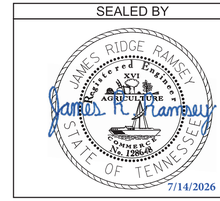
S.R. 33
PI 104+21.96
N 789,414.2335
E 2,729,946.4555
Δ 12° 57' 10" (LT)
D 9° 32' 57"
R 600.00
L 135.64
T 68.11
PC 103+53.85
PT 104+89.49



FINISHED GRADE SKETCH

(N.T.S.)

SEALED BY



PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-131

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7/13/2026

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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

GENERAL NOTES

SPECIFICATIONS & LOADING

CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 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:

HL-93 LIVE LOAD INCREASED BY 10% (MULTIPLIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
SEISMIC DESIGN CATEGORY A WITH A_S= 0.161, S_{DS}= 0.298, S_{D1}= 0.111, (1000 YEAR RETURN PERIOD).
DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

CONCRETE: TO BE CLASS A 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 1 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 SHALL BE REMAIN-IN-PLACE STEEL. FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWING STD-14-3 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.

FOUNDATION ELEMENTS

FOUNDATION PREPARATION: SEE SECTION 204 OF THE STANDARD SPECIFICATIONS. IF IT IS DETERMINED THAT COFFERDAMS ARE REQUIRED, THEY SHALL BE IN ACCORDANCE WITH SECTION 204.09 OF THE STANDARD SPECIFICATIONS.

ABUTMENTS ON FILL: THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

END-BEARING STEEL PILES: TO BE HP 10 X 42 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 75 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

STREAM CHANNEL: ANY WORK WITHIN THE STREAM CHANNEL AREA (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).

PRECAST SUPERSTRUCTURES

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

MISCELLANEOUS GENERAL NOTES

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.

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

RIP-RAP: MACHINED RIP-RAP SHALL BE CLASS B IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.08.

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.

REQUIREMENTS AND RESTRICTIONS FOR PHASE CONSTRUCTION

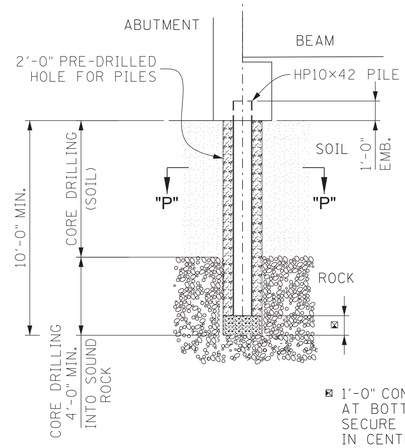
A. THE PHASE CONSTRUCTION SEQUENCE MAY PROHIBIT THE EXTRACTION OF SOME SHEET PILING. ALL COSTS ASSOCIATED WITH SHEET PILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

B. THE LOCATION OF LONGITUDINAL CONSTRUCTION JOINTS SHALL NOT BE CHANGED TO ACCOMMODATE STAY-IN-PLACE DECK FORMS.

C. NO SHEET PILES OR BEARING PILES MAY BE DRIVEN FROM THE EXISTING OR PROPOSED STRUCTURE.

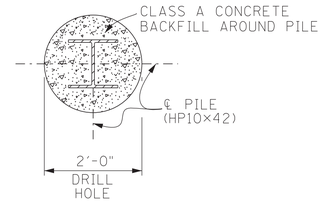
D. ONE TEN FEET TRAFFIC LANE SHALL BE MAINTAINED AT ALL TIMES.

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.



PRE-DRILLED ITEM DETAIL

(TYP. @ PER ABUTMENT)



DETAIL "P"-"P"

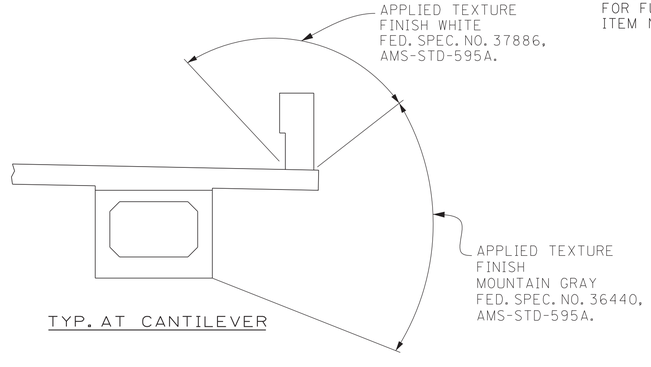
ALL PILES THAT CANNOT BE DRIVEN TO A MINIMUM OF 10'-0" SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET.

1) A 2'-0" DIAMETER HOLE (10'-0" MINIMUM LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF SOIL DRILLING AND ROCK DRILLING WILL VARY DUE TO LOCATION OF ROCK LINE.

2) THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE AND THE PILE IS SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.

3) AS SOON AS THE CONCRETE HAS ATTAINED IT INITIAL SET AND IS ABLE TO STABILIZE THE PILE TIP LOCATION ON THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH CLASS A CONCRETE, THE TOP OF THE PILE SHALL BE BRACED IN A MANNER SO THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

BASIS FOR PAYMENT:
THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES, PILE END ENCASEMENT, BACKFILLING WITH CLASS A CONCRETE, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NOS. 204-14 AND 204-15.



TYP. AT CANTILEVER

APPLIED TEXTURE FINISH SKETCH

TEXTURE FINISH: IN ADDITION TO THE PORTIONS 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).

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-132

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

7/13/2026 2:19:38 PM

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
	- -		
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ESTIMATED QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUTMENT NO. 1	RADIAL RAIL (ABUTMENT NO. 1)	ABUTMENT NO. 2
(2)	202-04.01	REMOVAL OF STRUCTURES (EXIST. BRIDGE NO. 13SR0330009)	L.S.	1				
(3)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	0				
	204-14	CORE DRILLING FOR PILE (ROCK)	L.F.	130		56		74
	204-15	CORE DRILLING FOR PILE (SOIL)	L.F.	146		100		46
(8)	303-01.02	GRANULAR BACKFILL (BRIDGES)	TONS	82		41		41
(7)	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	19,249	14,666	1,950	493	2,140
	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	69		29	3	37
(7)	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	8,858		4,491		4,367
(1)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	260		132		128
	604-03.09	CLASS D CONCRETE (BRIDGE DECK)	C.Y.	110	94	13		3
	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	337	287	26		24
	604-04.41	THREE STAR STATE EMBLEM	EA.	1			1	
(9)	606-02.03	STEEL PILES (10 INCH)	L.F.	276		156		120
(5)	615-02.04	PRESTRESSED CONCRETE BOX BEAM (27" X 36")	L.F.	469				
	620-06	CONCRETE RAILING	L.F.	199				
(10)	621-05.02	TEMPORARY SHORING	L.S.	1				
(6)	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	131		66		65
	710-09.02	6" PIPE UNDERDRAIN	L.F.	50		26		24

FOOTNOTES

(1) **NOTE:** PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.

(2) **NOTE:** LUMP SUM TO INCLUDE REMOVAL OF EXISTING BRIDGE LOC. NO. 13-SR033-20.56 AND APPROACHES TO NATURAL GROUND BETWEEN STATIONS 102+60 AND 103+32. EXISTING BRIDGE CONSISTS OF 3 SPANS CONCRETE BRIDGE WITH PIER WALLS AND CONCRETE ABUTMENTS. EXISTING BRIDGE LENGTH IS 58 FT AND EXISTING BRIDGE WIDTH OUT-TO-OUT IS 26.2 FT.

(3) **NOTE:** EXCAVATION INCLUDED IN ROADWAY QUANTITIES.

(4) **NOTE:** THE COST OF BITUMINOUS-FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

(5) **NOTE:** COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.

(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:** MECHANICAL BAR SPLICERS MUST BE ON THE TDOT QUALIFIED PRODUCTS LIST 27. THE BAR SPLICERS SHALL MEET AASHTO LRFD SPECIFICATIONS FOR MECHANICAL CONNECTION. WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED AFTER SPLICING ACCORDING TO SECTION 907 OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING THE BAR SPLICERS, (AND EPOXY COATING WHEN REQUIRED) INCLUDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-02.03 AND ITEM NO. 604-03.02.

(8) **NOTE:** GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.

(9) **NOTE:** THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.

(10) **NOTE:** TEMPORARY SHORING IS ANTICIPATED AND TO BE REQUIRED IN ORDER TO MAINTAIN TRAFFIC SHOWN IN THE TRAFFIC CONTROL PLANS AND FOR SUPPORT OF EXCAVATION ADJACENT TO EXISTING STRUCTURES, ROADWAYS OR UTILITIES. THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH ANY TEMPORARY SHORING NEEDED FOR PROJECT CONSTRUCTION INCLUDING DESIGN, SUBMITTAL, CONSTRUCTION AND REMOVAL IF NECESSARY. THE TYPE AND EXTENT OF TEMPORARY SHORING WILL BE DETERMINED BASED ON THE CONTRACTORS DESIRED MEANS AND METHODS AND SHALL CONSIDER AVAILABLE GEOTECHNICAL DATA (ROCK ELEVATIONS, WATER TABLE, ETC.), EXISTING AND PROPOSED STRUCTURES, UTILITIES, AND OTHER CONSTRAINTS AS NEEDED. NO CHANGE TO THE BID PRICE FOR THIS ITEM WILL BE MADE BASED UPON CONDITIONS THAT ARE READILY AVAILABLE FOR REVIEW DURING THE BIDDING PHASE.

SEALED BY



PIN NO.:	124242.00		
DESIGN BY:	ABDISALAN DAHIR	DATE:	02/2025
DRAWN BY:	P. MOSHER	DATE:	06/2025
SUPERVISED BY:	DRE/JBS	DATE:	08/2025
CHECKED BY:	A. BENNETT	DATE:	02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-133

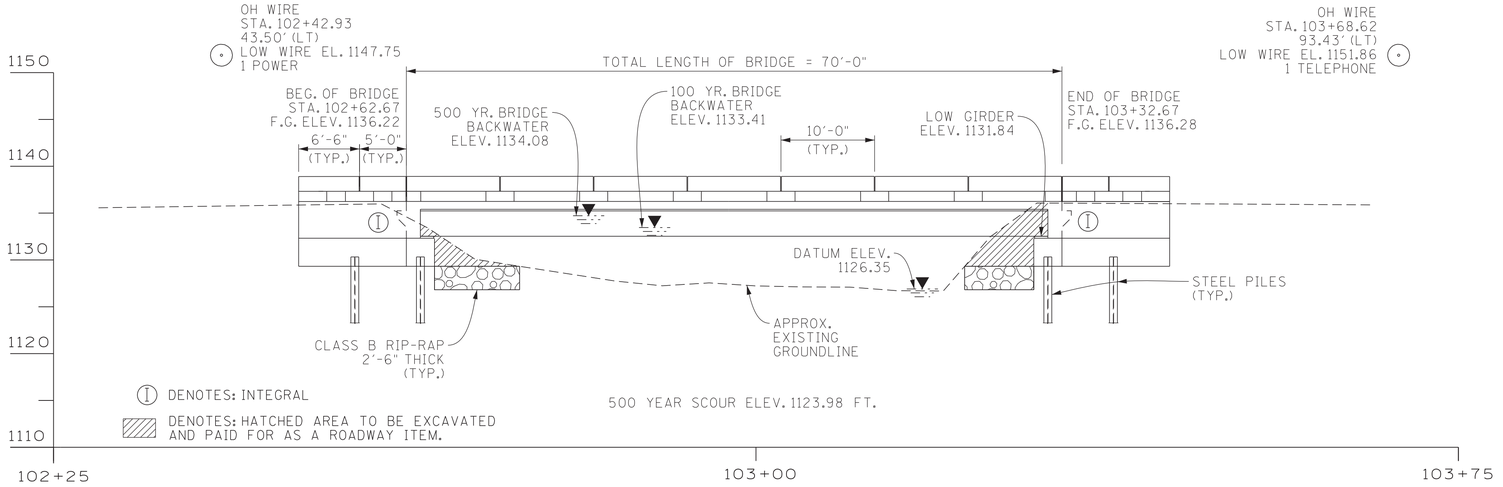
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
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ELEVATION
(1/8" = 1" SCALE)

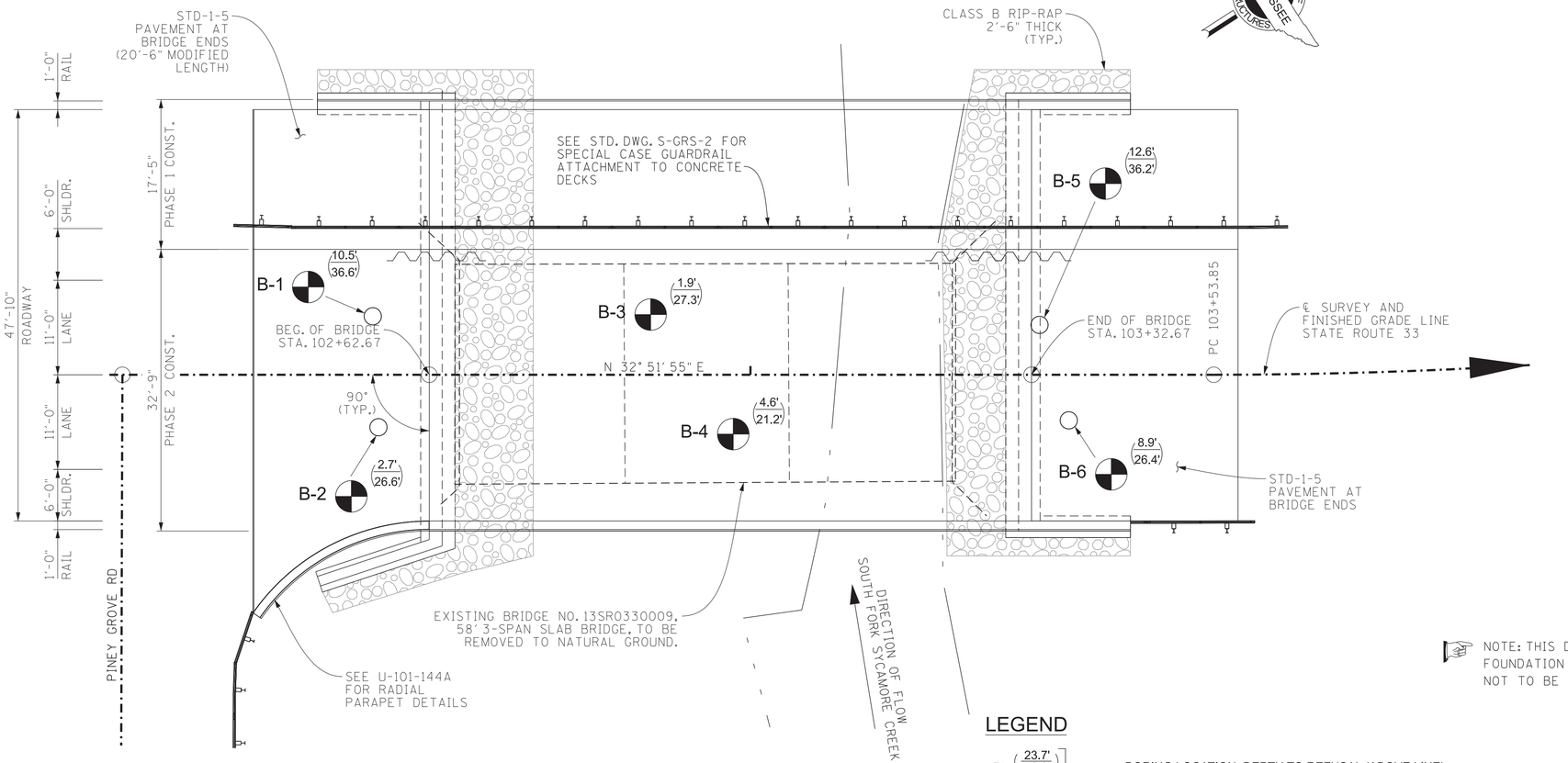
REQUIRED:

1) SUFFICIENT GROUND ROCK AND CORING INFORMATION FOR BRIDGE FOUNDATION.

2) APPOXIMATE EXISTING GROUND AND ROCK LINE.

BENCHMARKS:

13-033-11
STA. 101+94.23 93.70'(RT)
N 789171.0120
E 2729900.4560
ELEV. 1133.69



PLAN
(1/8" = 1" SCALE)

NOTES:

DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH INTERIMS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS. SEISMIC CATEGORY "A" WITH AS = 0.161, SDS = 0.298, SD1 = 0.111 (1000 YEAR RETURN PERIOD).

LEGEND

B-1 (23.7' / 73.0') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)

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

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DRAWN BY:	D. EASTERLY	DATE: 06/2025
SUPERVISED BY:	DRE/JBS	DATE: 08/2025
CHECKED BY:	A. BENNETT	DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-134

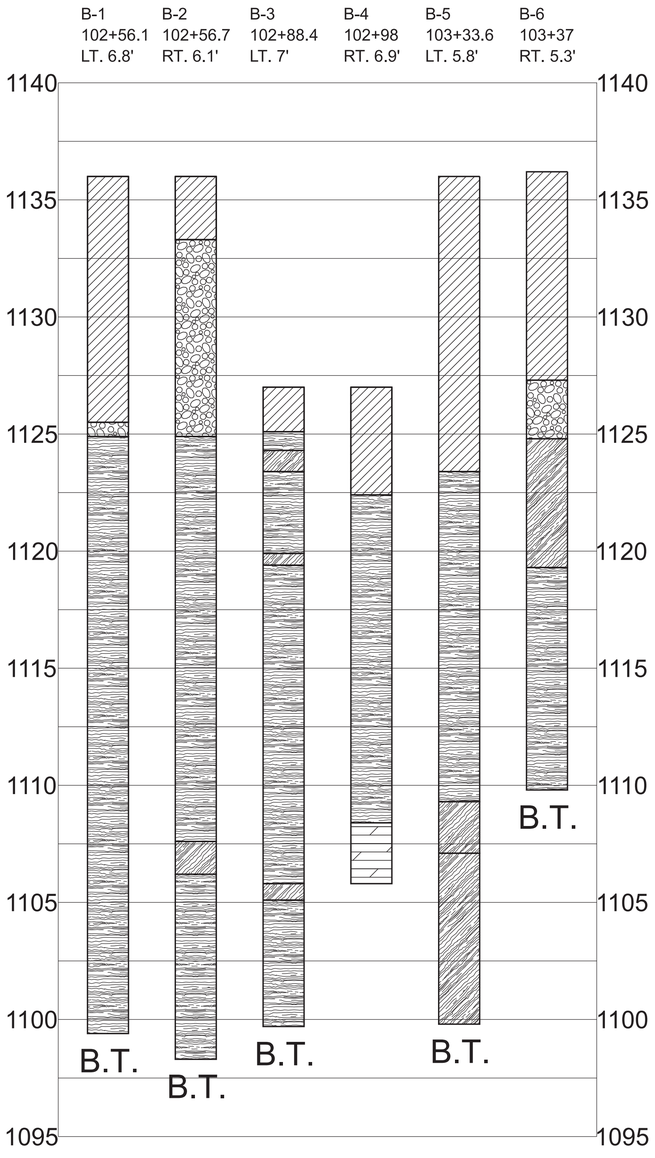
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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	- -		
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BORING NO.	STATION	OFFSET	GROUND ELEVATION	ROCK ELEVATION	TOTAL DEPTH
1	102+56.1	LT. 6.8'	1136'	1124.9'	36.6'
2	102+56.7	RT. 6.1'	1136'	1124.9'	26.6'
3	102+88.4	LT. 7'	1127'	1125.1'	27.3'
4	102+98	RT. 6.9'	1127'	1122.4'	21.2'
5	103+33.6	LT. 5.8'	1136'	1123.4'	36.2'
6	103+37	RT. 5.3'	1136.2'	1127.3'	26.4'

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

LEGEND

- BOULDERS AND COBBLES
- CLAY
- DOLOSTONE
- SHALE
- WEATHERED SHALE

B.T.= BORING TERMINATED

NOTE:
TOP OF BORING ELEVATION SHOULD BE GRAPHICALLY AS BASELINE OF ZERO FOR REFERENCE ONLY. ACTUAL GROUND ELEVATION INDICATED AT TOP OF BORING.

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DESIGN BY: ABDISALAN DAHIR DATE: 08/2025
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CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-135

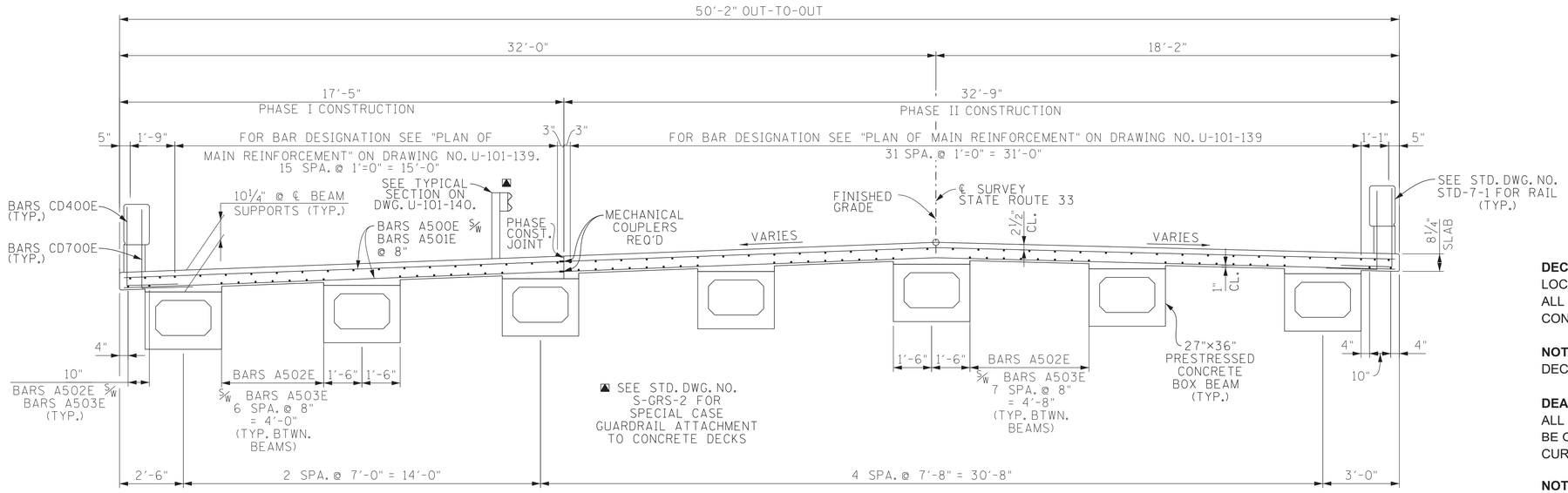
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7/10/2026

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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	- -		
	- -		
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TYPICAL CROSS-SECTION

(LOOKING FORWARD ON SURVEY)

DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING: ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ON THIS SHEET.

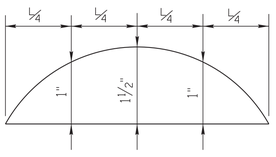
NOTE: NO PORTION OF THE PARAPETS SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

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

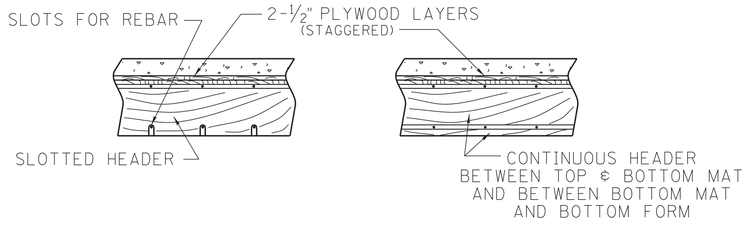
NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL AND ANCHOR BOLTS FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. WHEN POURING PARAPET, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS FOR HANDRAILS. ALSO SEE STD. DWG. NO. STD-7-1

NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. WHILE IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED PRIOR TO PLACING ANY LOADS ON THE BEAMS, IT IS REQUIRED THAT ALL TEMPORARY ERECTION DIAPHRAGMS IN A SPAN BE FULLY INSTALLED PRIOR TO POURING ANY PORTION OF THE SLAB IN THAT SPAN.



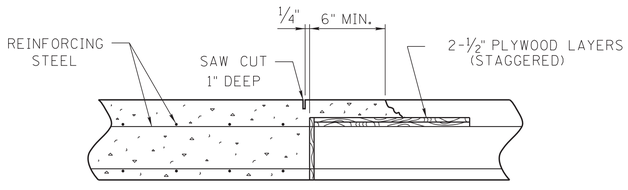
DEAD LOAD CORRECTION CURVE

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



ALTERNATE HEADER DETAILS

DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING: NOTE: ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAIL SHOWN BELOW.



SLAB CONSTRUCTION JOINT DETAIL

SEALED BY

JAMES RIDGE RAMSEY
REGISTERED ENGINEER
XXVI
AGRICULTURE
COMMERCE
1796
STATE OF TENNESSEE
7/14/2026

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: D. EASTERLY DATE: 05/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-136

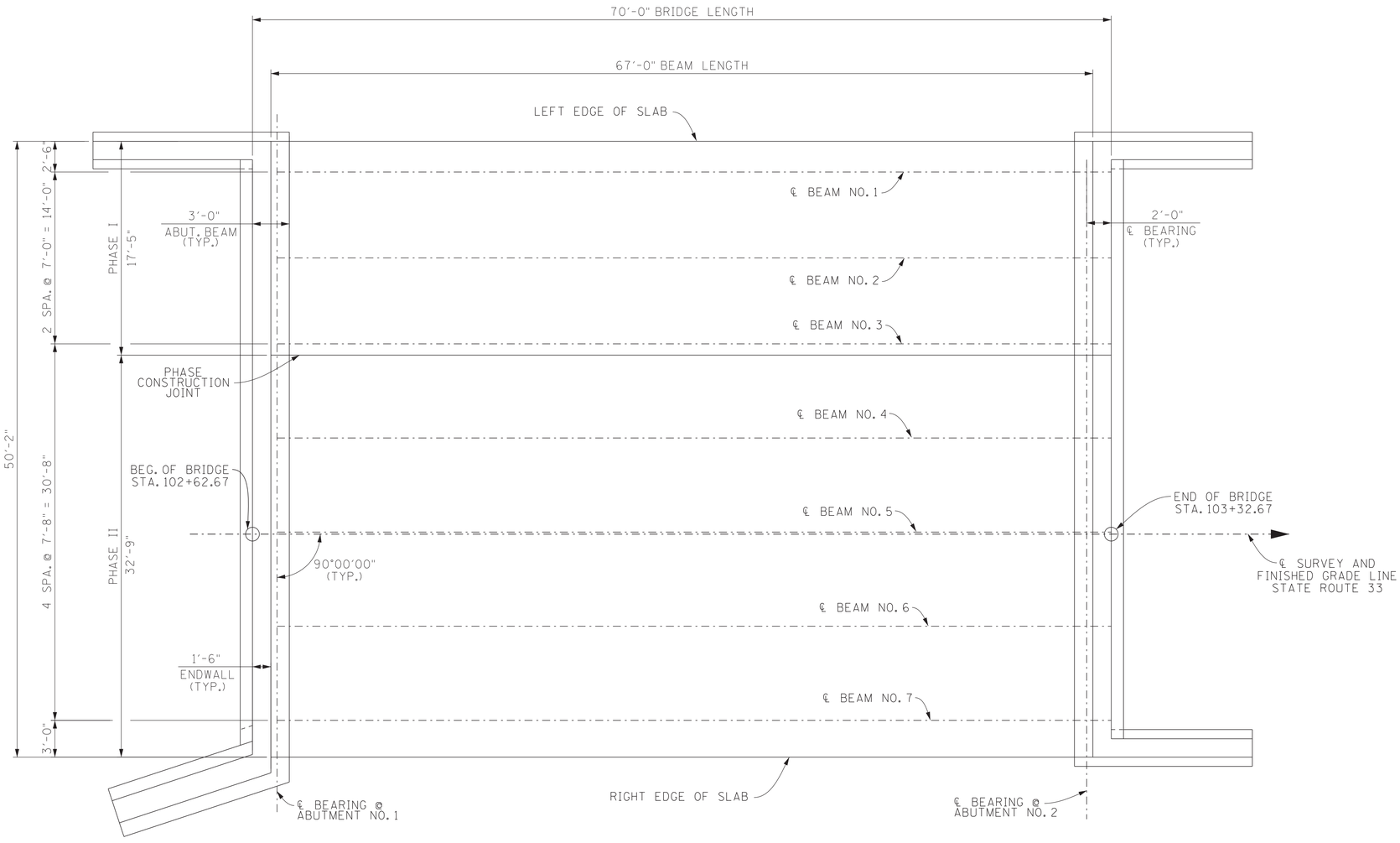
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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



FRAMING PLAN

SEALED BY

JAMES RIDGE RAMSEY
Registered Engineer
XVI
AGRICULTURE
CONSERVATION
1956
STATE OF TENNESSEE
7/14/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
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STATION 102+97.67
CLAIBORNE COUNTY

U-101-137

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: D. EASTERLY DATE: 05/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

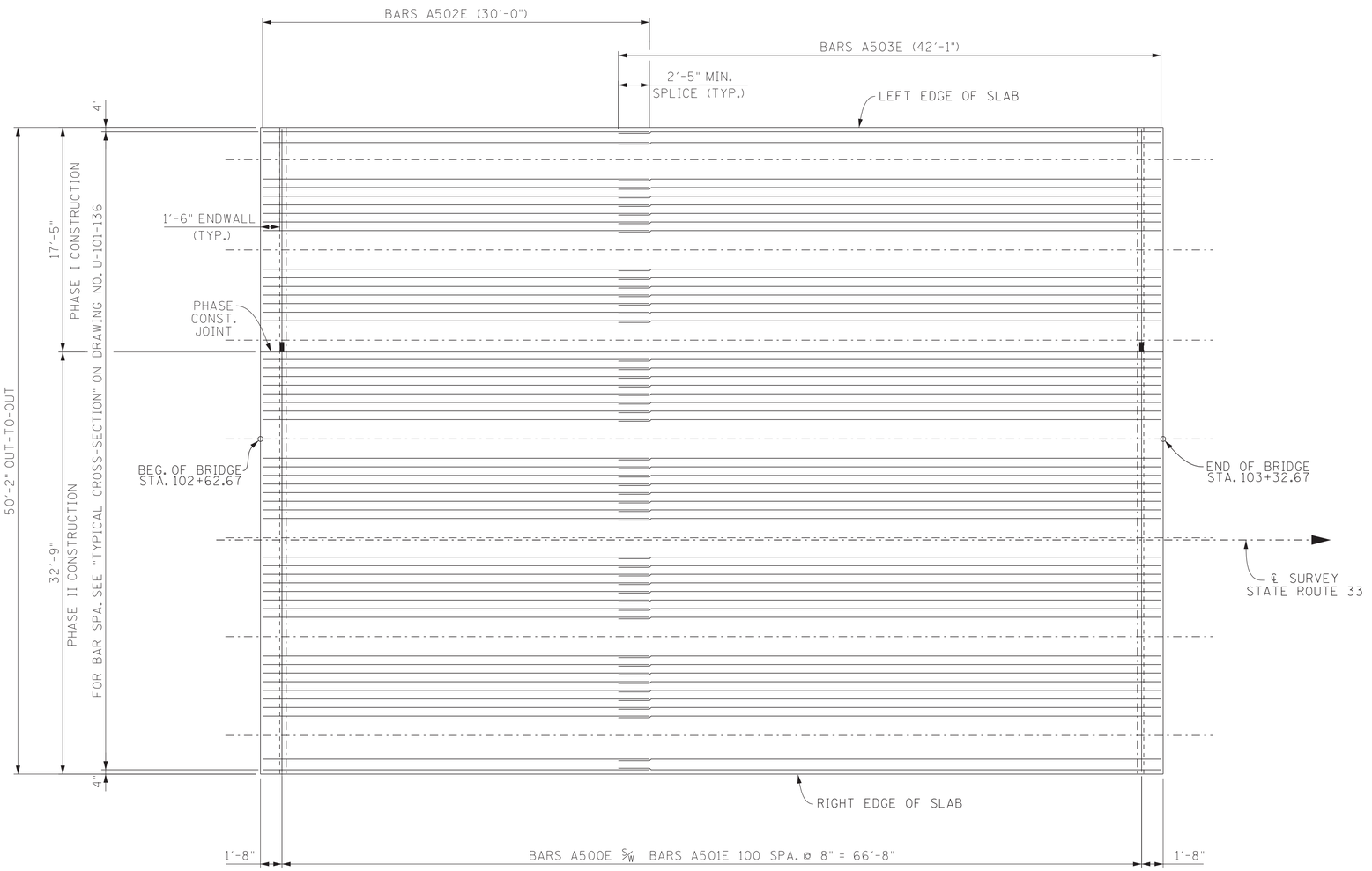
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

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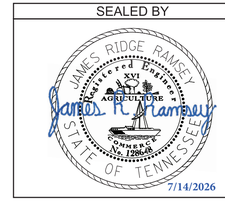
NO.	DATE	BY	BRIEF DESCRIPTION
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■ DENOTES: MECHANICAL COUPLER REQ'D.

SLAB PLAN
(SHOWING BOTTOM MAT REINFORCEMENT)

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-138

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: D. EASTERLY DATE: 08/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

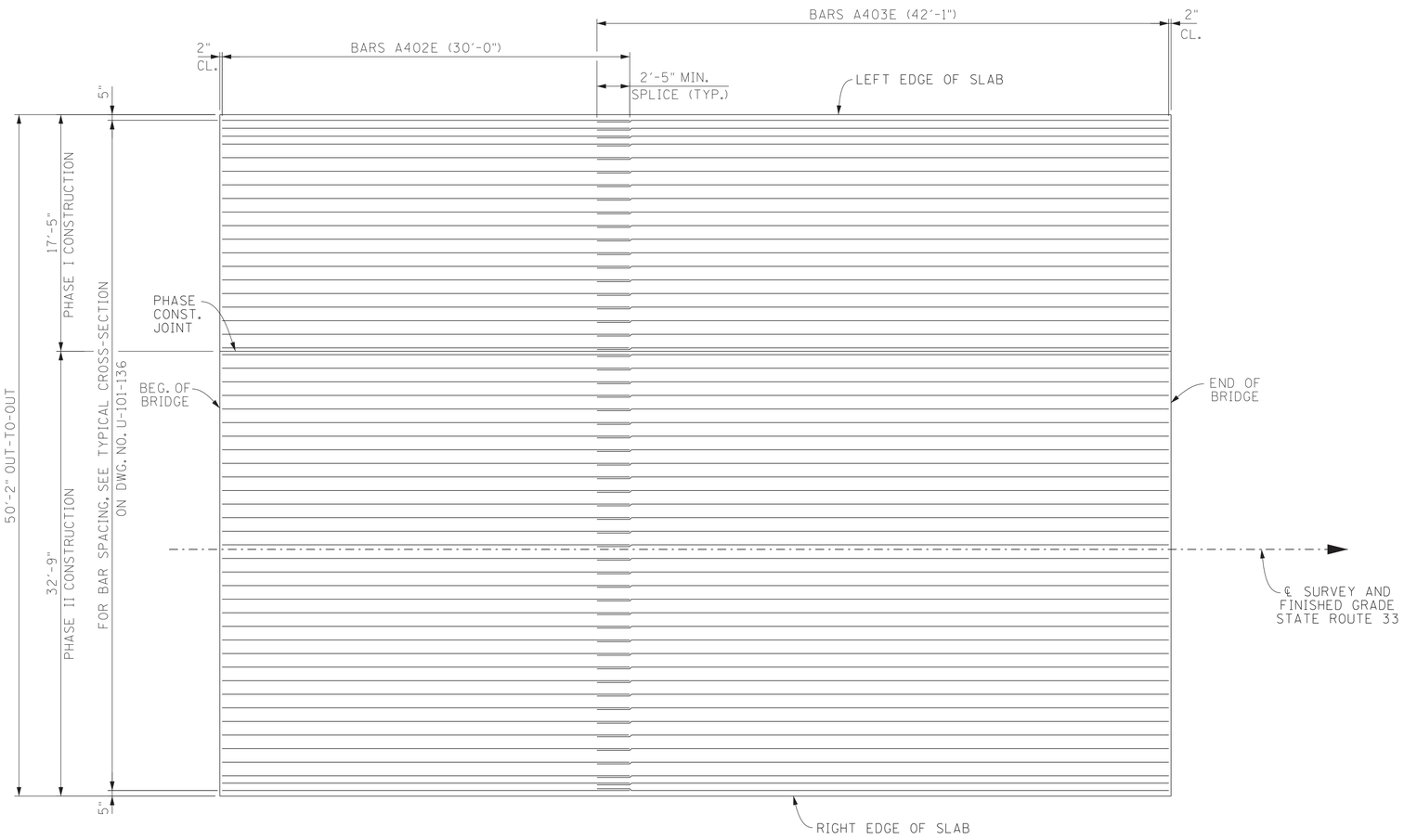
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7/13/2026

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BR-STP-33(126)	2026	

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	- -		
	- -		
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	- -		
	- -		



PLAN OF MAIN REINFORCEMENT
(SHOWING TOP MAT REINFORCEMENT)

SEALED BY

JAMES RIDGE RAMSEY
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
NUMBER
XXX.129645
STATE OF TENNESSEE
James R. Ramsey
7/14/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 33 OVER
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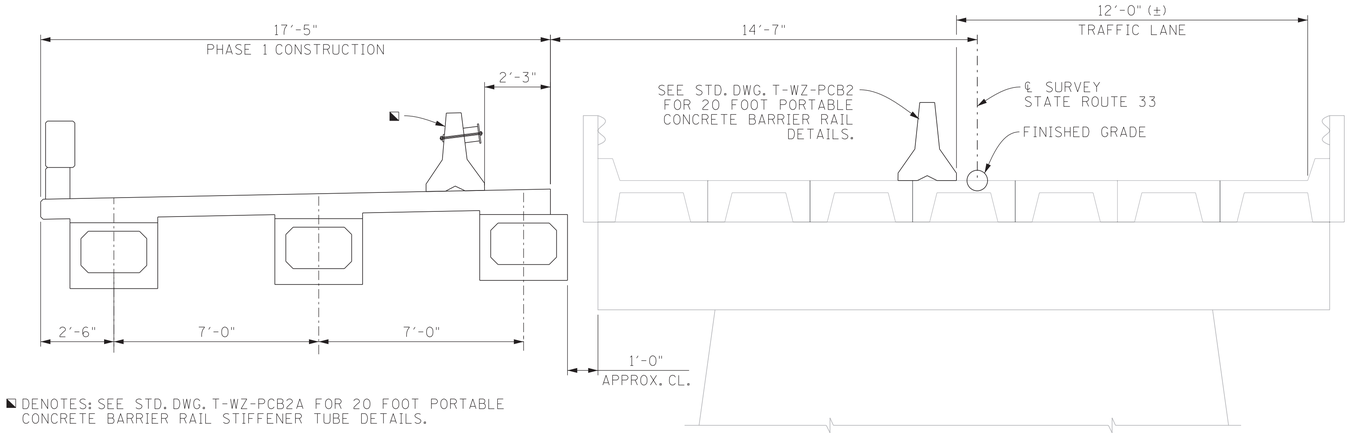
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BR-STP-33(126)	2026	

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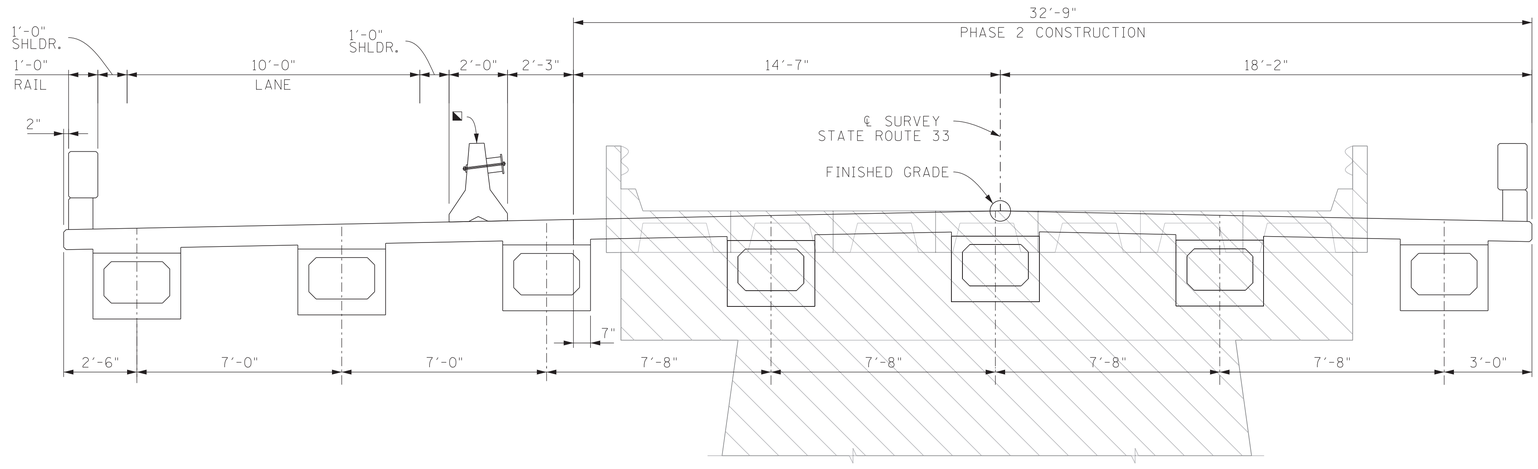
NO.	DATE	BY	BRIEF DESCRIPTION
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◥ DENOTES: SEE STD. DWG. T-WZ-PCB2A FOR 20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE DETAILS.

PHASE 1 SECTION

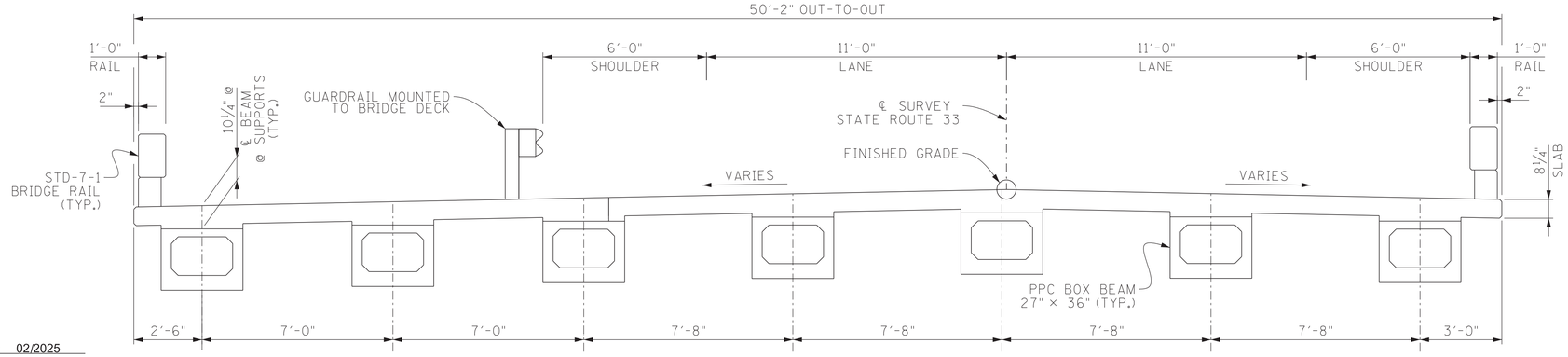
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(LOOKING FORWARD ON SURVEY)



PHASE 2 SECTION

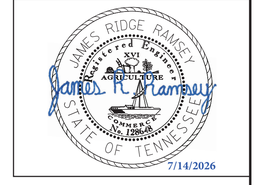
(SHOWING PHASE 2 CONSTRUCTION AND TRAFFIC)
(LOOKING FORWARD ON SURVEY)

DENOTES: EXISTING STRUCTURE TO BE REMOVED.



TYPICAL SECTION

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASE CONSTRUCTION DETAIL
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
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CLAIBORNE COUNTY

U-101-140

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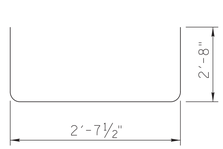
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CONST. NO.: 13004-3216-94

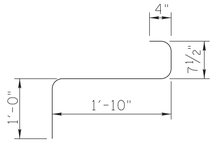
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BR-STP-33(126)	2026	

REVISIONS

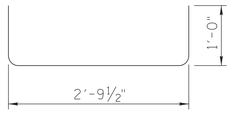
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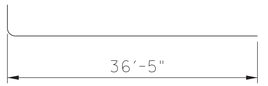
BARS H500



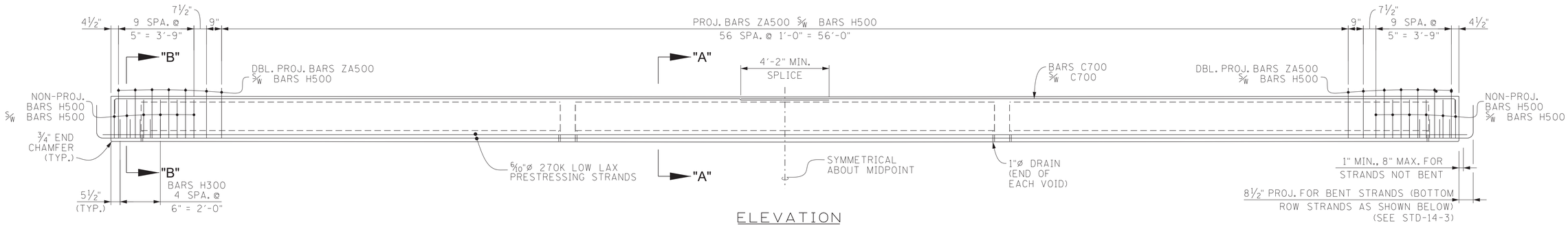
BARS ZA500



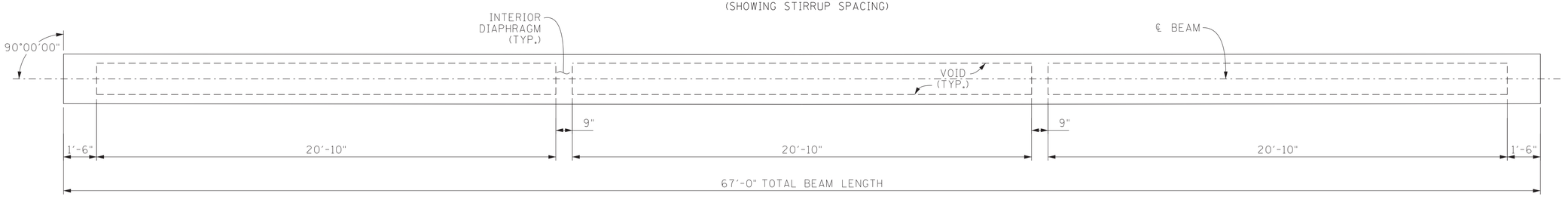
BARS H300



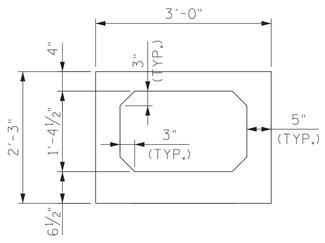
BARS C700



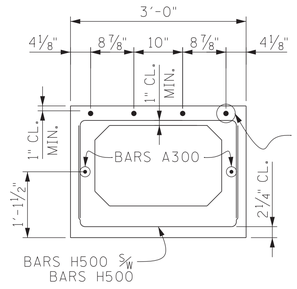
ELEVATION
(SHOWING STIRRUP SPACING)



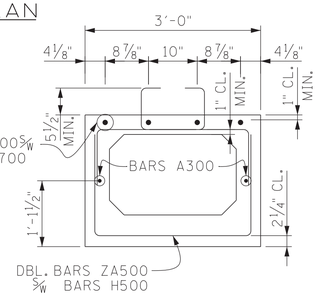
PLAN



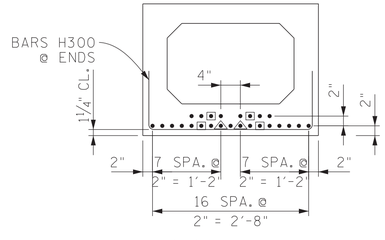
SECTION SHOWING PROPERTIES



SECTION "B"-"B"
SHOWING NON-PROJECTING BARS



SECTION "A"-"A"
SHOWING PROJECTING BARS



SECTION "A"-"A"
SHOWING 6/10"ø PRESTRESSING STRANDS
(25 STRANDS TOTAL)

◬ DENOTES: BOND BREAKS 6'-0" FROM END OF BEAM

▣ DENOTES: BOND BREAKS 3'-0" FROM END OF BEAM

NOTE: SEE STD-14-3 FOR BOX BEAM STANDARD DETAILS, NOTES AND REINFORCING.

NOTE: THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE DECK SLAB.

NOTE: THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 9000 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 8000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

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.

PRESTRESSED BEAM DESIGN DATA (PER BEAM):

LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.73 LANES
SHEAR = 0.74 LANES

COMPOSITE DEAD LOAD: DC = 351 LB/FT

COMPOSITE DEAD LOAD: DC = 105 LB/FT

FINAL DW = 211 LB/FT

COMPOSITE SLAB DESIGN STRENGTH: F 'C = 4000 PSI

DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

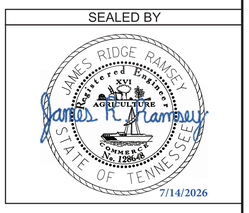
BILL OF STEEL
(PER BEAM)

BAR	SIZE	NO. REQ'D.	LENGTH
A300	3	4	34'-0"
A500	5	6	5'-6"
A501	5	8	2'-9"
A502	5	8	1'-11"
C700	7	8	36'-5"
H300	3	10	3'-10"
H500	5	81	4'-8"
ZA500	5	85	3'-10"

ESTIMATED QUANTITIES - PER BEAM

NO. BEAMS REQ'D.	PRESTRESSING STRANDS (LOW RELAXATION) LB.	CLASS A CONCRETE C,Y,	REINFORCING STEEL LB.
7	1,366	10	1,468

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESTRESSED BOX BEAM DETAILS
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-141

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

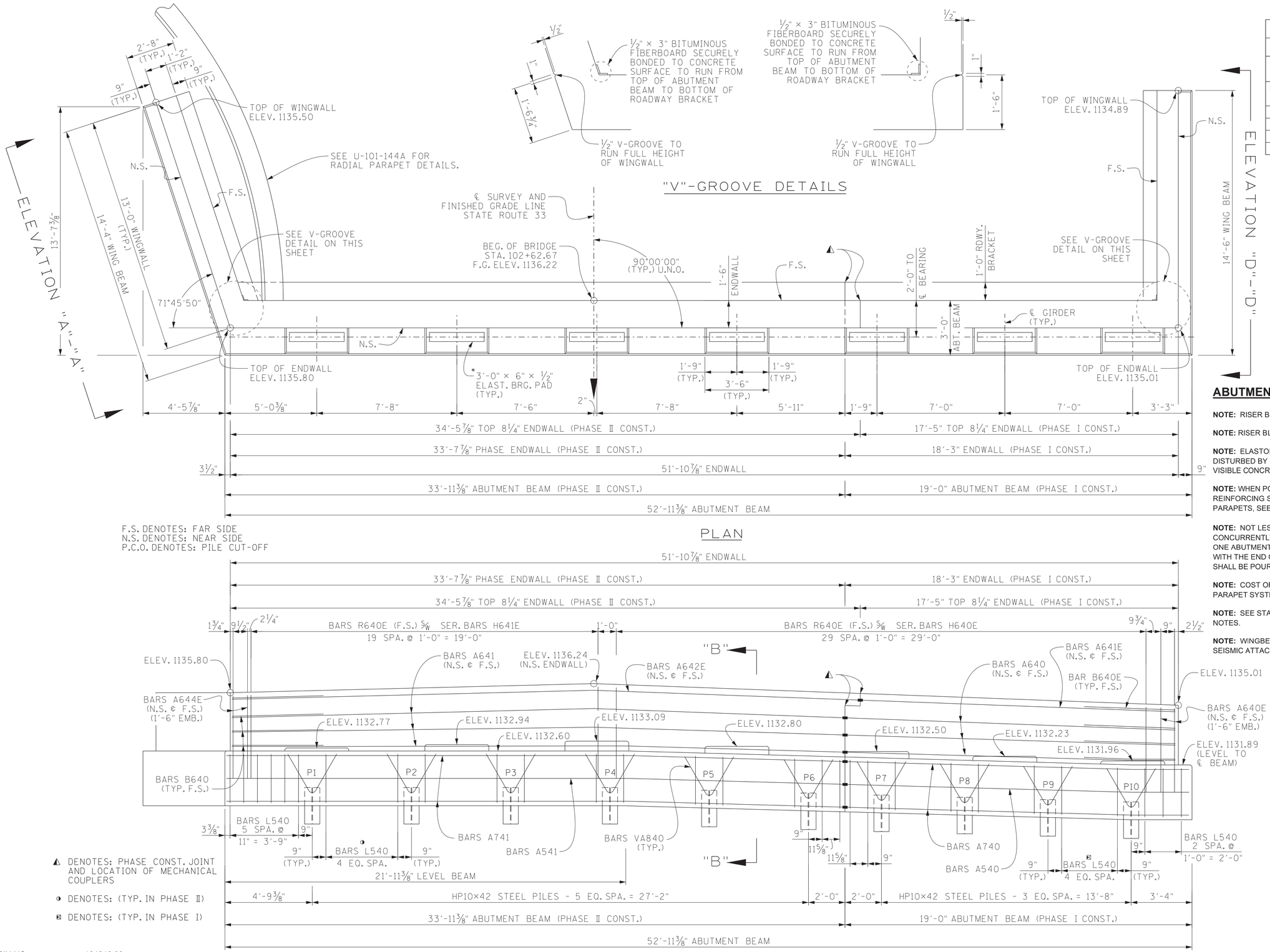
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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



◭ DENOTES: PHASE CONST. JOINT AND LOCATION OF MECHANICAL COUPLERS

◑ DENOTES: (TYP. IN PHASE II)

◙ DENOTES: (TYP. IN PHASE I)

ABUTMENT NOTES

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.

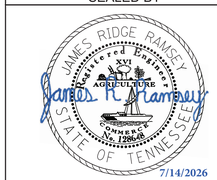
NOTE: SEE STANDARD DRAWING STD-6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.

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

TABLE OF P.C.O. ELEVATIONS

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
P.C.O. ELEV.	1130.60	1130.60	1130.60	1130.60	1130.84	1130.61	1130.45	1130.26	1130.08	1129.89

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-142

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 06/2025
CHECKED BY: A. BENNETT DATE: 02/2025

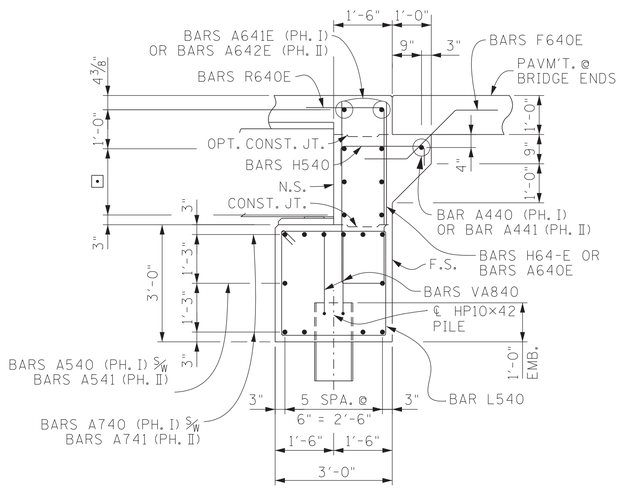
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

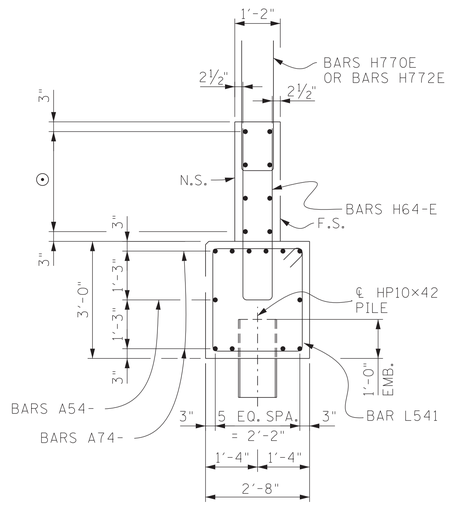
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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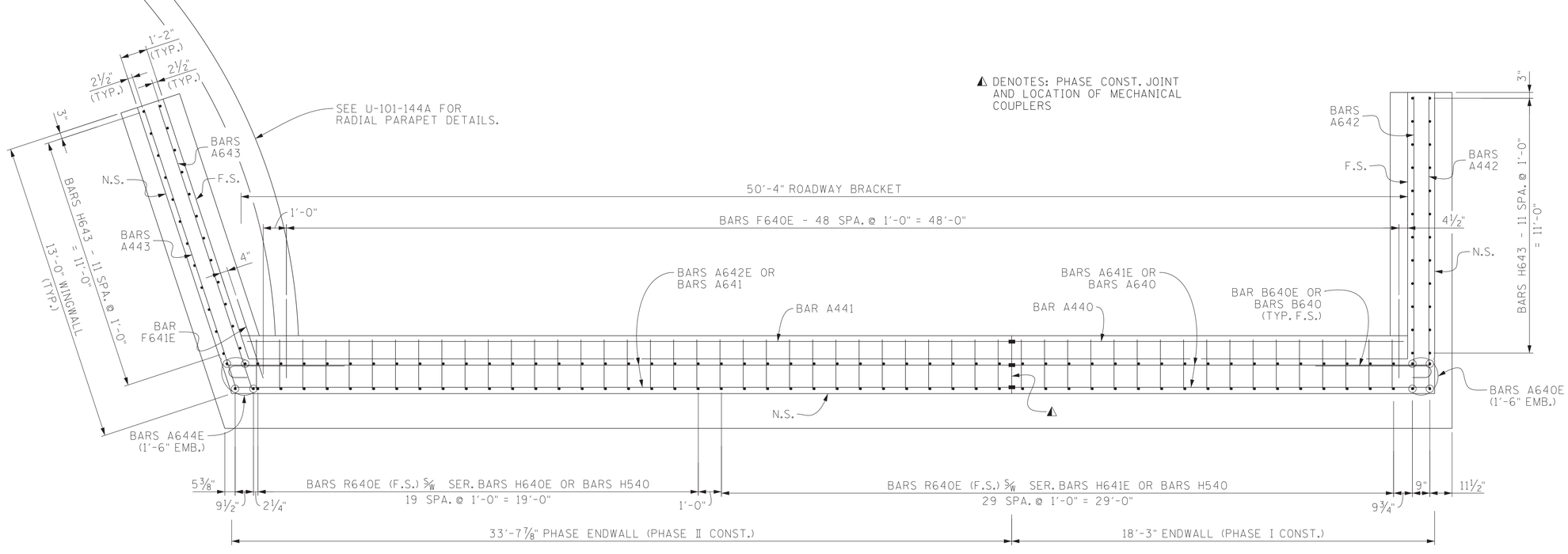
SECTION "B"-"B"

⊡ DENOTES: BARS A640 (PH. I)
S/W BARS A641 (PH. II)
(N.S. & F.S.) - 2 EQ. SPA.



SECTION "E"-"E"

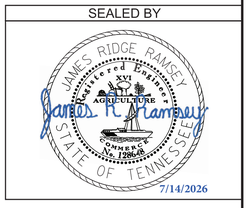
⊙ DENOTES: BARS A44- (N.S.)
OR BARS A64- (F.S.)
3 EQ. SPA.



SECTION "C"-"C"

F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1 DETAILS
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-143

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 06/2025
CHECKED BY: A. BENNETT DATE: 02/2025

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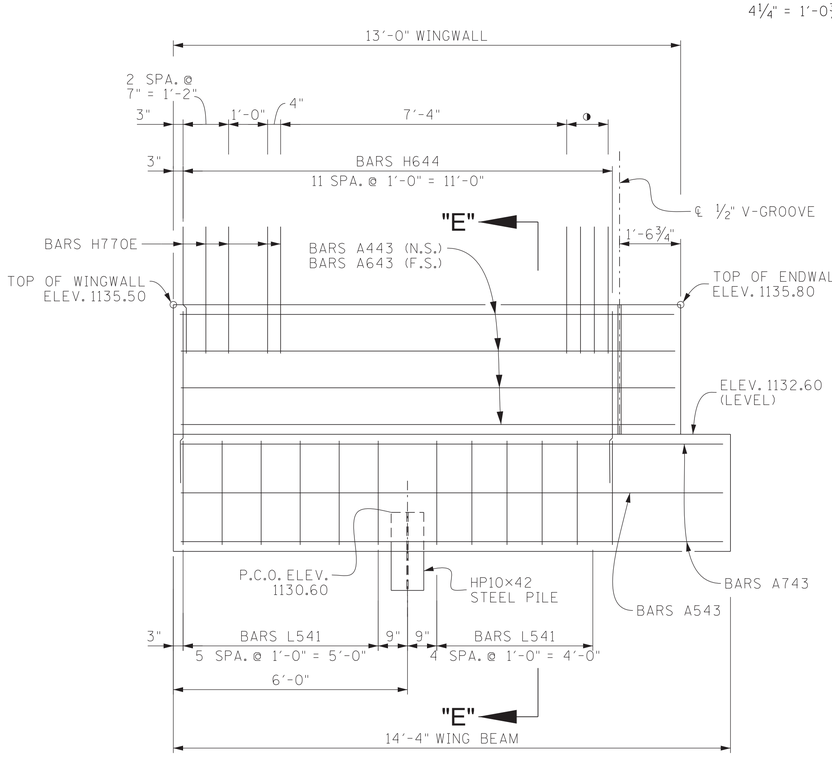
CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

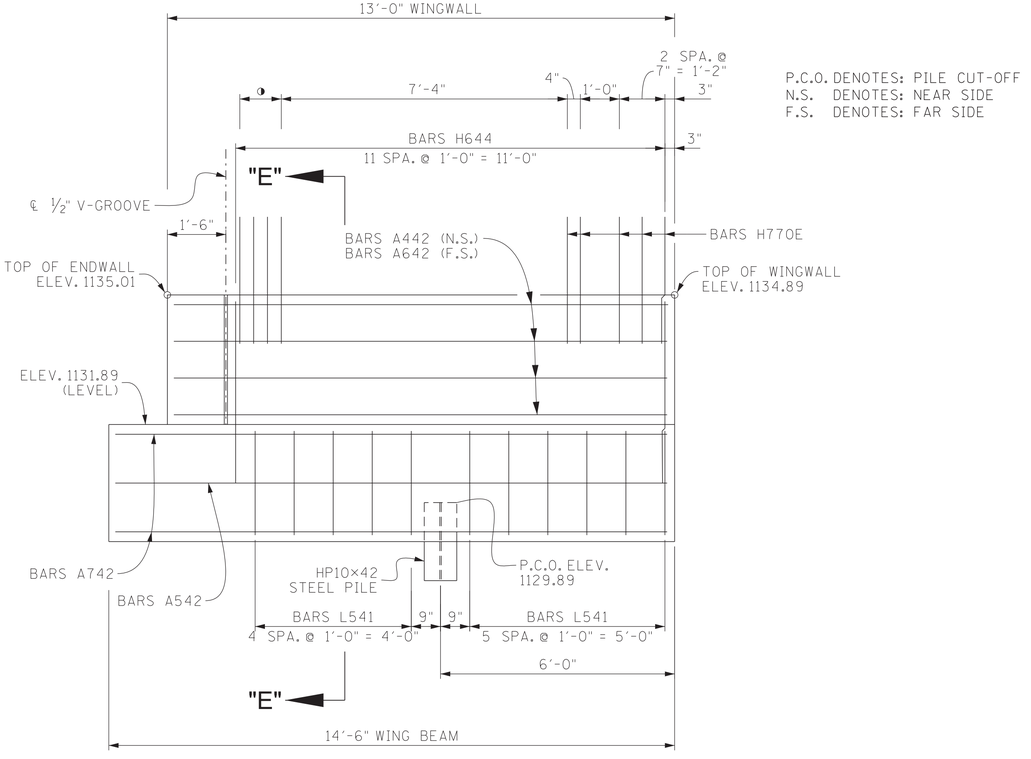
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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◑ DENOTES: BARS H772E - 3 SPA. @ 4¼" = 1'-0¾"



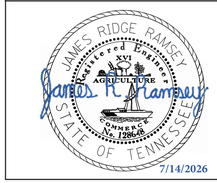
ELEVATION "A"-"A"



ELEVATION "D"-"D"

P.C.O. DENOTES: PILE CUT-OFF
N.S. DENOTES: NEAR SIDE
F.S. DENOTES: FAR SIDE

SEALED BY



PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 06/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1 DETAILS
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-144

5/21/2026 11:18:16 AM

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	------

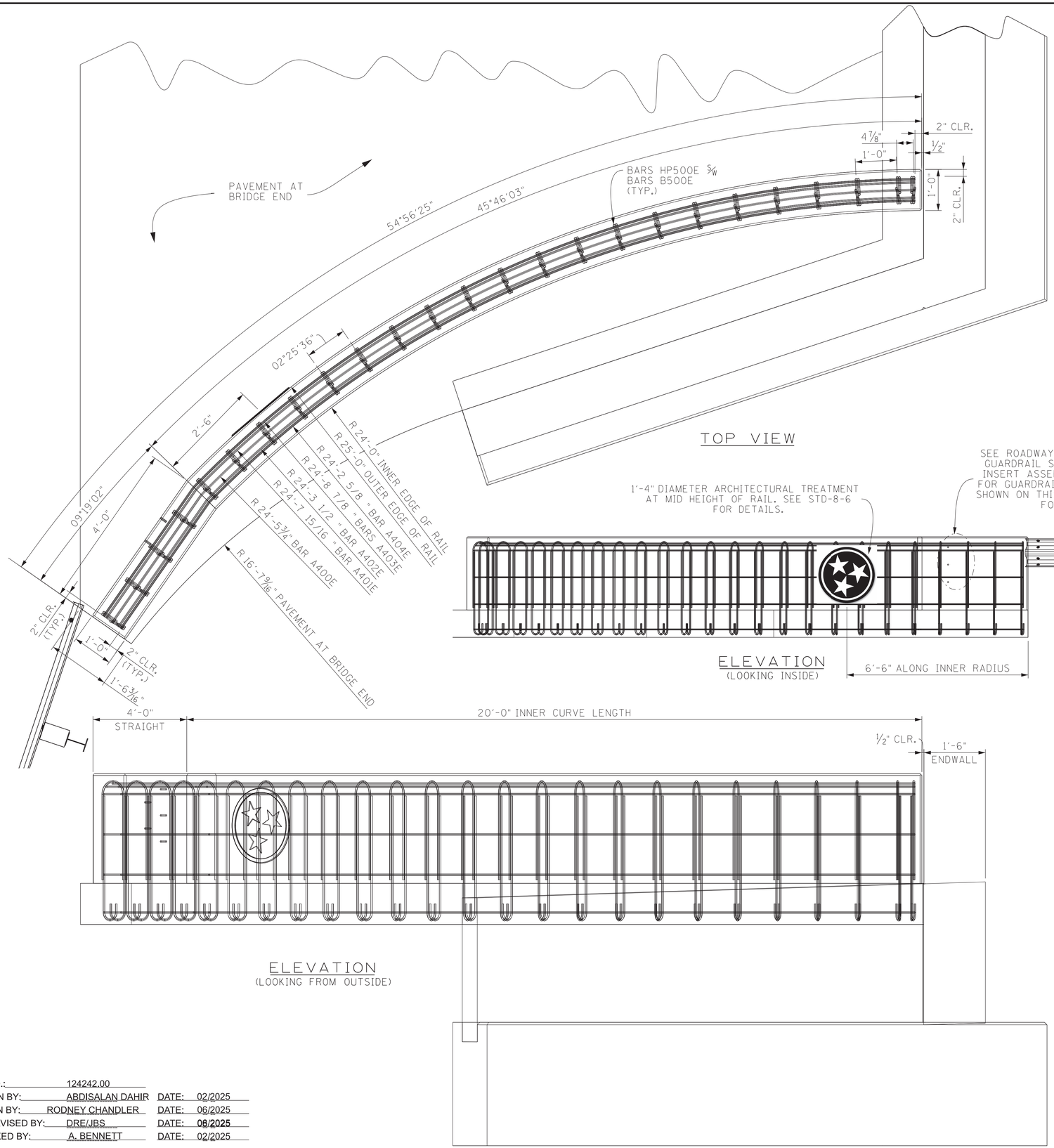
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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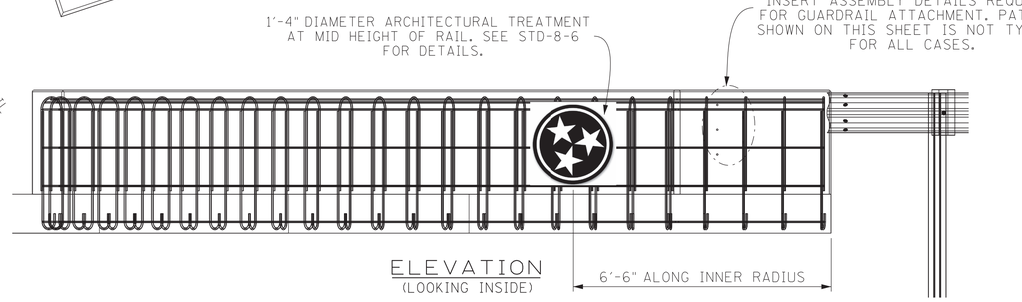
BILL OF STEEL

CURVED ENDRAIL ABUTMENT NO. 1

BARS	SIZE	NO. REQ'D.	LENGTH (FEET)
A400E	4	1	23-2"
A401E	4	1	23'-4"
A402E	4	1	23'-0"
A403E	4	4	23'-5"
A404E	4	4	22'-11"
B500E	5	50	3'-5"
HP500E	5	25	5'-2"

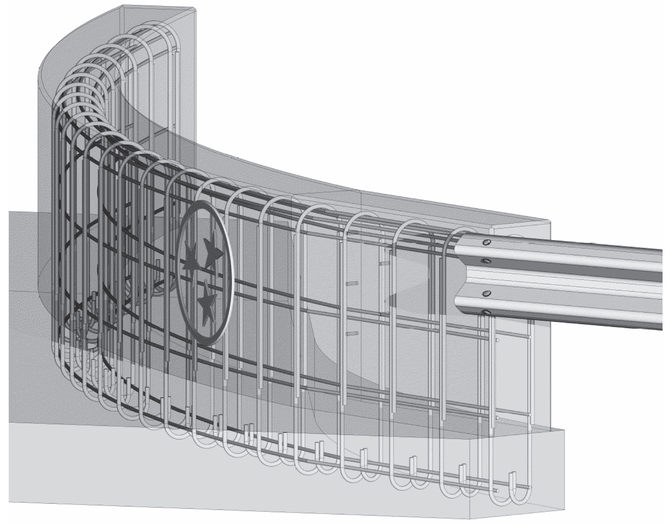


TOP VIEW

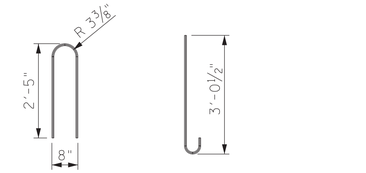


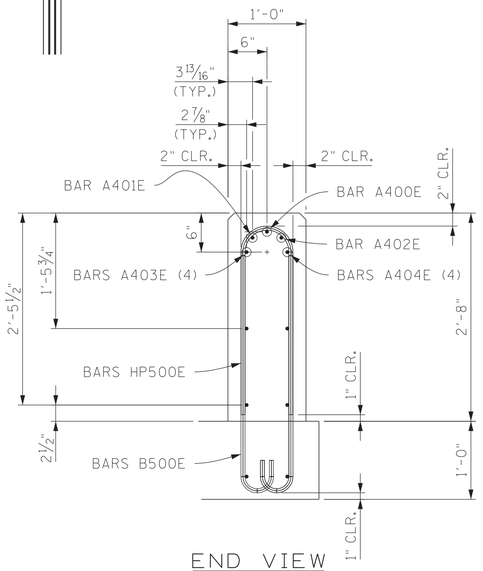
ELEVATION
(LOOKING INSIDE)

ELEVATION
(LOOKING FROM OUTSIDE)



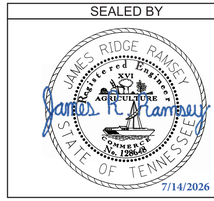
ISOMETRIC VIEW





END VIEW
(LOOKING BACK ON SURVEY)
CORNERS AND TOP OF RAIL TO BE CHAMFERED AT 1".

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1 - DETAILS
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-144A

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: RODNEY CHANDLER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

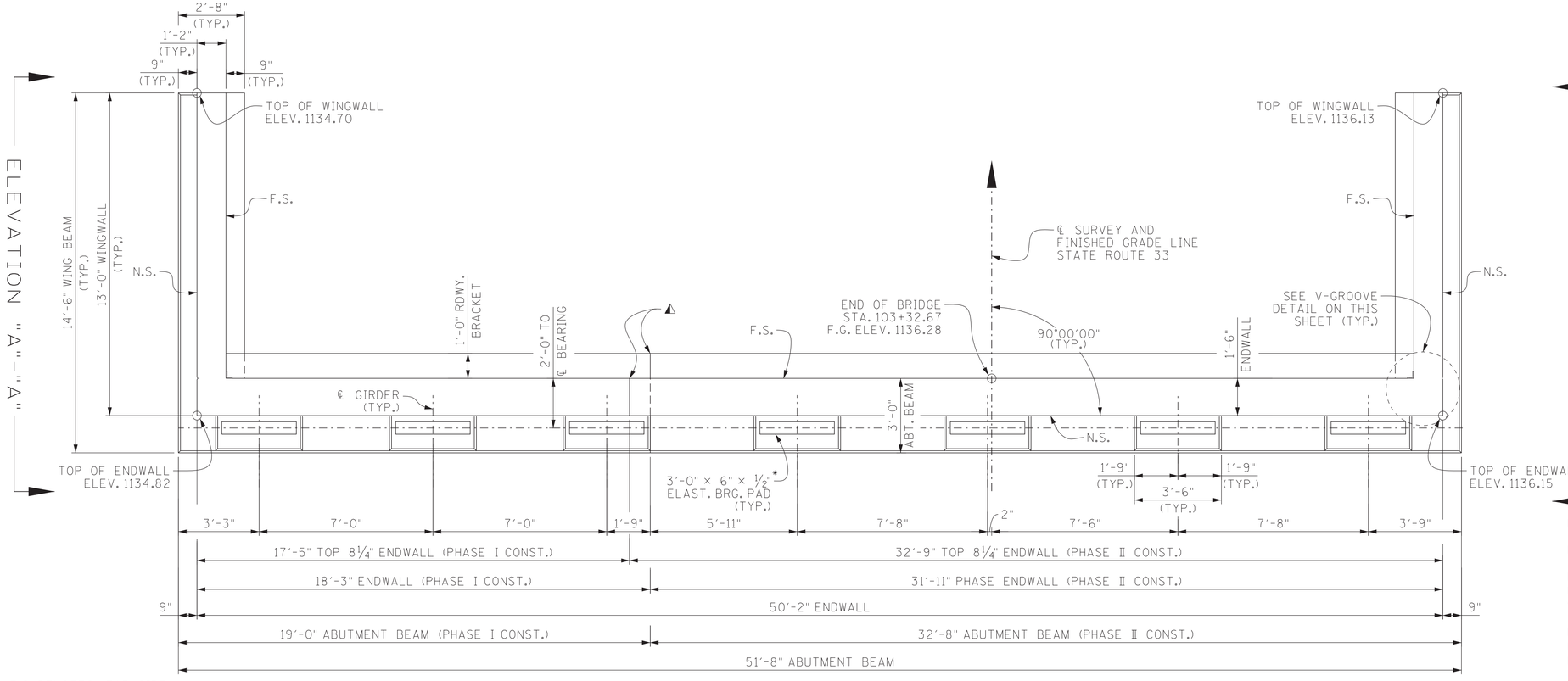
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

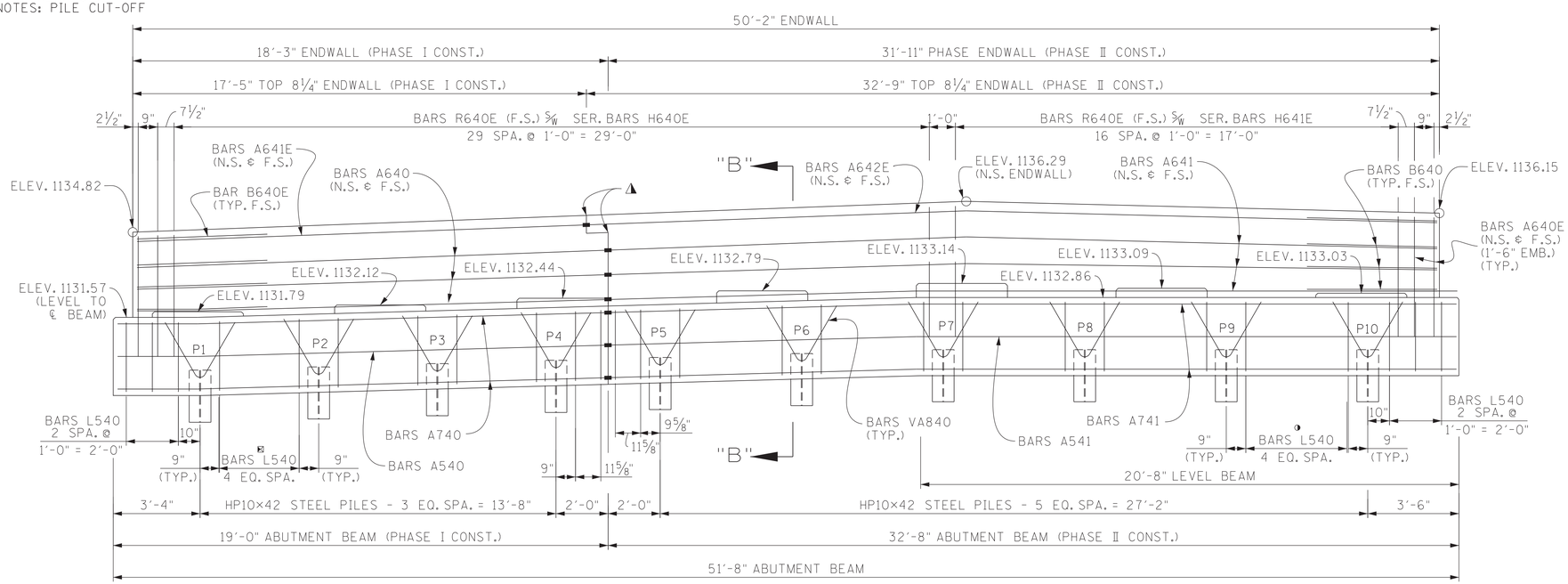
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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PLAN

F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE
P.C.O. DENOTES: PILE CUT-OFF



ELEVATION
(LOOKING FORWARD ON SURVEY)

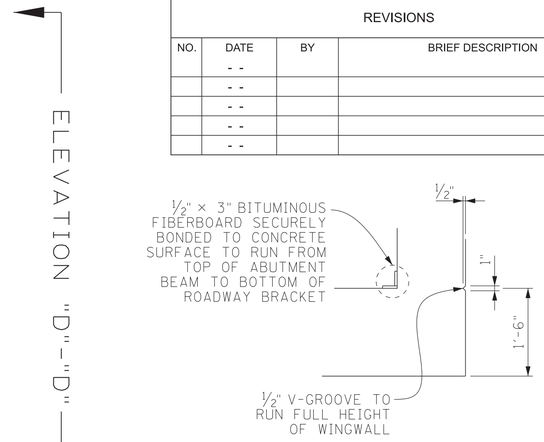
◭ DENOTES: PHASE CONST. JOINT AND LOCATION OF MECHANICAL COUPLERS

◑ DENOTES: (TYP. IN PHASE I)

◙ DENOTES: (TYP. IN PHASE II)

TABLE OF P.C.O. ELEVATIONS

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
P.C.O. ELEV.	1129.57	1129.79	1130.02	1130.24	1130.44	1130.70	1130.86	1130.86	1130.86	1130.86



"V"-GROOVE DETAIL

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.

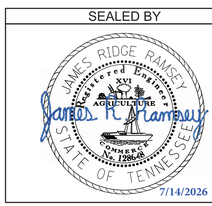
NOTE: NOT LESS THAN HALF OF THE SLAB SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. ONE ABUTMENT ENDWALL SHALL BE POURED FULL HEIGHT CONCURRENTLY WITH THE END OF SLAB. AT LEAST THE TOP 12 INCHES OF THE OTHER ENDWALL SHALL BE POURED CONCURRENTLY WITH THE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

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

NOTE: SEE STANDARD DRAWING STD-6-1 FOR PILE SEISMIC ATTACHMENT DETAILS AND NOTES.

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

SEALED BY



PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 2
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-145

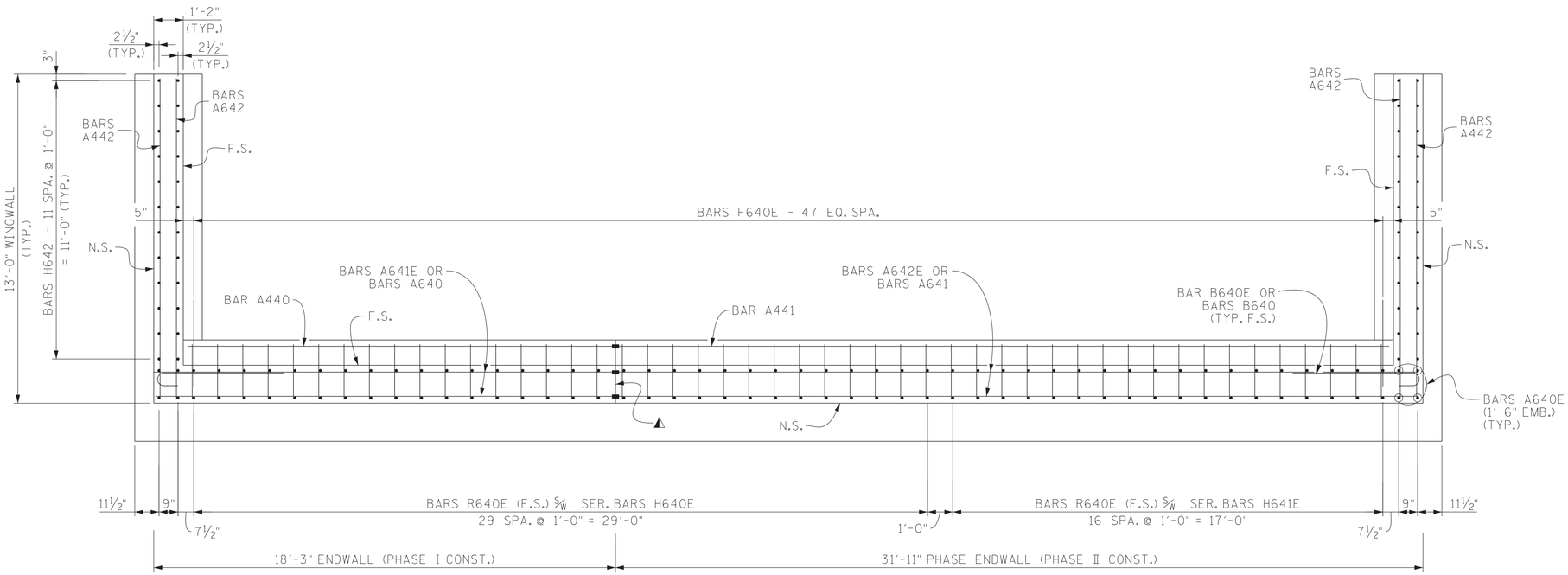
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CONST. NO.: 13004-3216-94

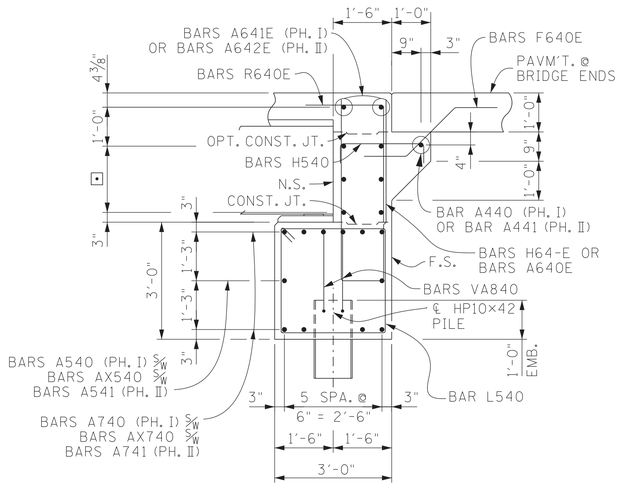
PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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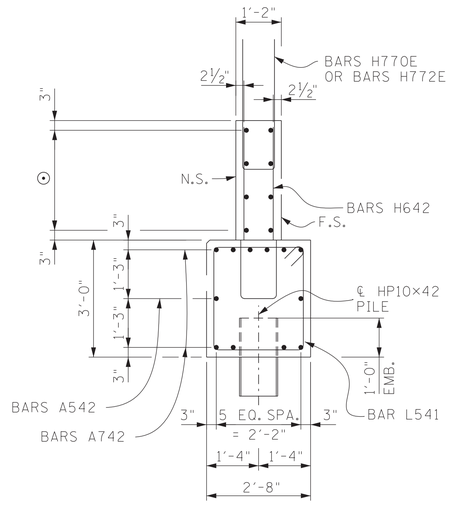


SECTION "C"-"C"



SECTION "B"-"B"

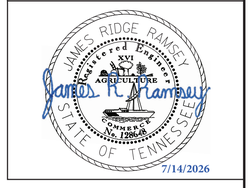
⊡ DENOTES: BARS A640 (PH. I)
5/W BARS AX640 5/W BARS A641E (PH.II)
(N.S. & F.S.) - 2 EQ. SPA.



SECTION "E"-"E"

⊙ DENOTES: BARS A442 (N.S.)
OR BARS A642 (F.S.)
3 EQ. SPA.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 2 DETAILS
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-146

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

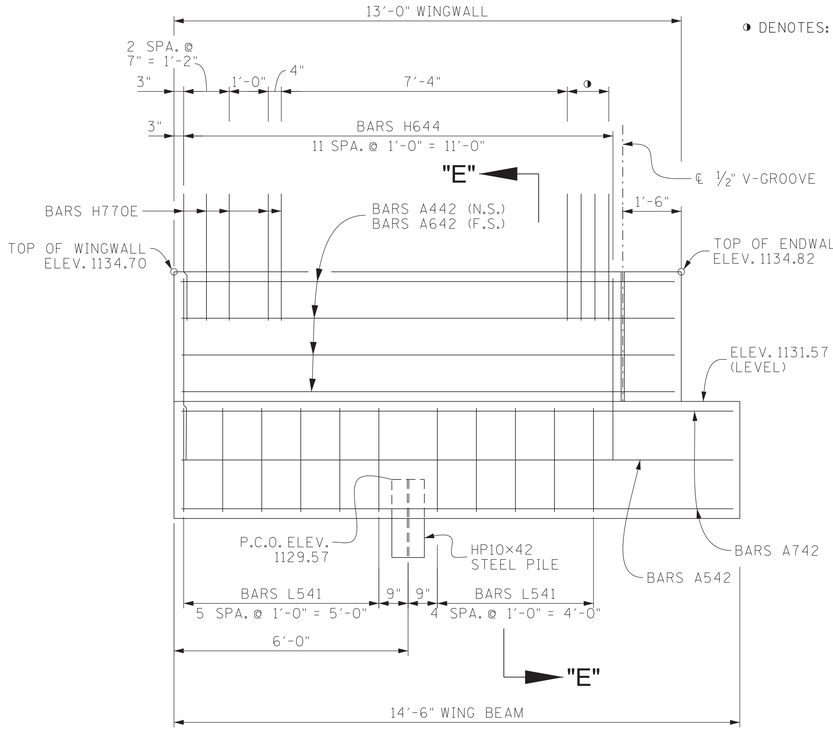
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CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

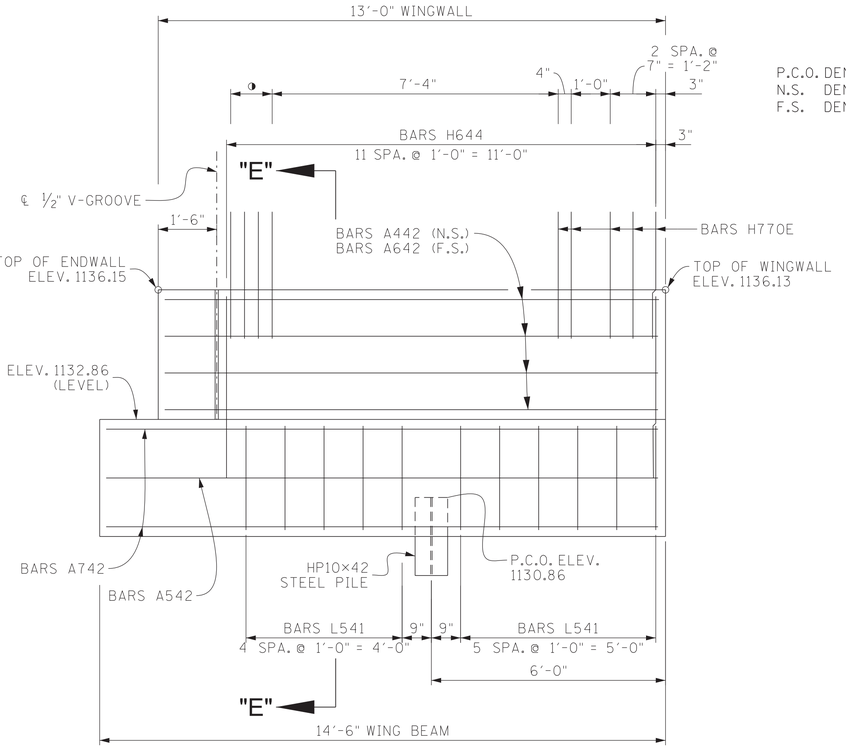
REVISIONS

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



◑ DENOTES: BARS H772E - 3 SPA. @ 4¼" = 1'-0¾"

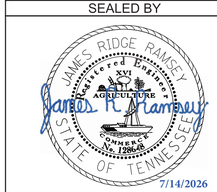
ELEVATION "A"-"A"



P.C.O. DENOTES: PILE CUT-OFF
N.S. DENOTES: NEAR SIDE
F.S. DENOTES: FAR SIDE

ELEVATION "D"-"D"

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 2 DETAILS
STATE ROUTE 33 OVER
SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-147

PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: P. MOSHER DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 06/2025
CHECKED BY: A. BENNETT DATE: 02/2025

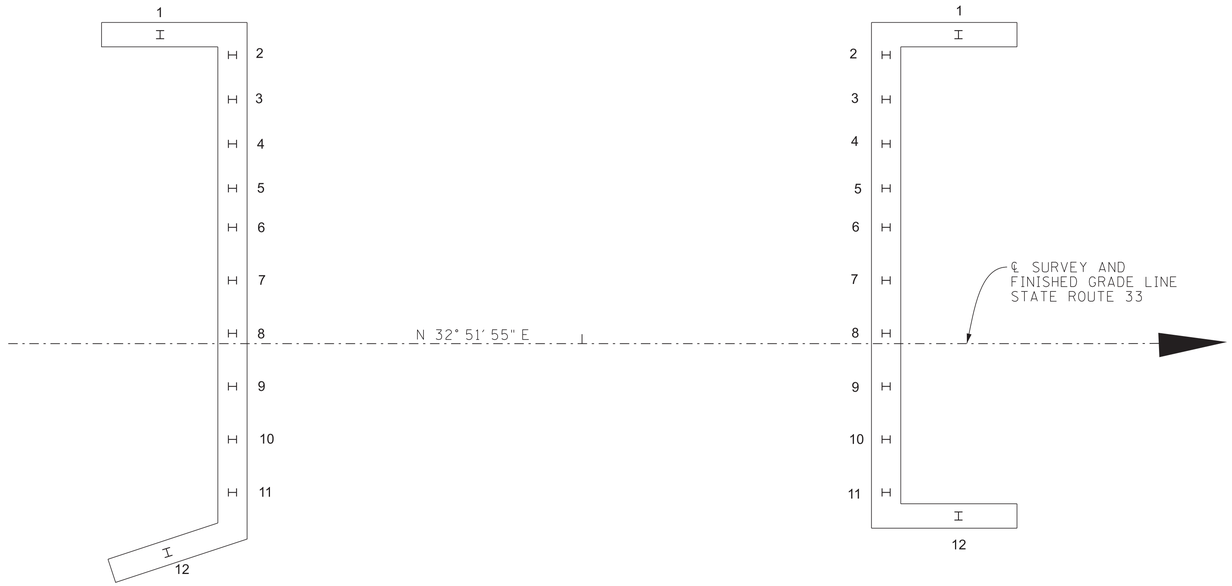
5/28/2026 8:52:07 AM

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

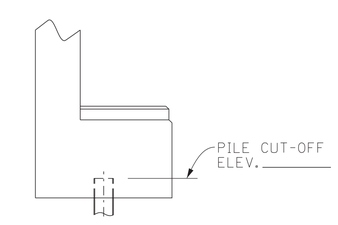
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
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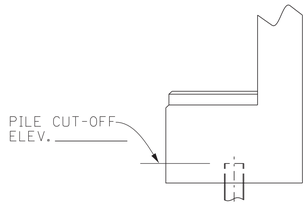


ABUTMENT NO. 1

ABUTMENT NO. 2



ABUTMENT NO. 1



ABUTMENT NO. 2

TABLE OF PILE DATA

		1	2	3	4	5	6	7	8	9	10	11	12
ABUTMENT NO. 1	PILE CUT-OFF ELEVATION												
	PILE TIP ELEVATION												
	IN PLACE PILE LENGTH												
ABUTMENT NO. 2	PILE CUT-OFF ELEVATION												
	PILE TIP ELEVATION												
	IN PLACE PILE LENGTH												

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.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 08/2025
DRAWN BY: D. EASTERLY DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINAL FOUNDATION DATA
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-148

5/26/2026 9:07:41 AM

SUPERSTRUCTURE (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A401E	SLAB	4	53					30'-0"
A402E	SLAB	4	53					42'-1"
A500E	SLAB	5	101					17'-3"
A501E	SLAB	5	101					32'-7"
A502E	SLAB	5	50					30'-0"
A503E	SLAB	5	50					42'-1"
CD400E	RAIL	4	112	2'-0"	3'-1"			5'-1"
CD700E	RAIL	7	112	2'-0"	3'-1"			5'-1"
H301E	SLAB	3	76	4 3/4'	2'-0"			4'-6"

ABUTMENT NO. 1 (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A640E	ENDWALL (PH. I)	6	4					5'-1"
A641E	ENDWALL (PH. I)	6	2					17'-3"
A642E	ENDWALL (PH. II)	6	2					34'-3"
A644E	ENDWALL (PH. II)	6	4					4'-8"
F640E	ENDWALL/P.A.B.E.	6	48	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
SER								
H640E	ENDWALL	6	1	1'-2"	*			204'-5"
				DIM. B VARIES FROM 4'-7 5/8" TO 5'-0 1/4" IN INC. OF 1/4" (17 BARS)				
SER								
H641E	ENDWALL	6	1	1'-2"	*	0.000	0.000	327'-6"
				DIM. B VARIES FROM 4'-11 3/4" TO 4'-8" IN INC. OF 1/8" (30 BARS)				
H770E	RAIL/WINGWALL	7	5	9"	3'-4"			7'-5"
H772E	RAIL/WINGWALL	7	12	7"	3'-4"			7'-3"
R640E	ENDWALL/SLAB	6	50	2'-0"	3'-0"			5'-0"

ABUTMENT NO. 1 (REGULAR)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A440	ROADWAY BRKT. (PH. I)	4	1					16'-11"
A441	ROADWAY BRKT. (PH. II)	4	1					29'-9"
A442	WINGWALL (PH. I)	4	4					12'-9"
A443	WINGWALL (PH. II)	4	4					12'-8"
A540	ABUT. BEAM (PH. I)	5	2					18'-10"
A541	ABUT. BEAM (PH. II)	5	2					33'-10"
A542	WING BEAM (PH. I)	5	2					14'-2"
A543	WING BEAM (PH. II)	5	2					14'-0"
A640	ENDWALL (PH. I)	6	6					18'-1"
A641	ENDWALL (PH. II)	6	6					33'-7"
A642	WINGWALL (PH. I)	6	4					12'-9"
A643	WINGWALL (PH. II)	6	4					12'-8"

ABUTMENT NO. 1 (REGULAR) - CONTINUED

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A740	ABUT. BEAM (PH. I)	7	10					18'-10"
A741	ABUT. BEAM (PH. II)	7	10					33'-11"
A742	WING BEAM (PH. I)	7	10					14'-2"
A743	WING BEAM (PH. II)	7	10					14'-0"
B640	ENDWALL	6	8	5'-0"				5'-8"
H540	RDWY. BRKT./PABE	5	47	3'-8"	6"			4'-8"
H643	WING BEAM (PH. I)	6	12	9"	4'-8"			10'-1"
H644	WING BEAM (PH. II)	6	12	9"	4'-6"			9'-9"
L540	ABUTMENT BEAM	5	53	2'-8"	2'-8"			11'-7"
L541	WING BEAM	5	22	2'-4"	2'-8"			10'-9"
VA850	PILES	8	20	2'-6"	2'-6"			5'-0"

ABUTMENT NO. 2 (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A640E	ENDWALL	6	8					5'-1"
A641E	ENDWALL (PH. I)	6	2					17'-3"
A642E	ENDWALL (PH. II)	6	2					32'-7"
F640E	ENDWALL/P.A.B.E.	6	48	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
SER								
H640E	ENDWALL	6	1	1'-2"	*			327'-6"
				DIM. B VARIES FROM 4'-11 3/4" TO 4'-8" IN INC. OF 1/8" (30 BARS)				
SER								
H641E	ENDWALL	6	1	1'-2"	*			207'-0"
				DIM. B VARIES FROM 4'-7 1/4" TO 5'-0 1/4" IN INC. OF 1/4" (18 BARS)				
H770E	RAIL/WINGWALL	7	10	9"	3'-4"			7'-5"
H772E	RAIL/WINGWALL	7	24	7"	3'-4"			7'-3"
R640E	ENDWALL/SLAB	6	48	2'-0"	3'-0"			5'-0"

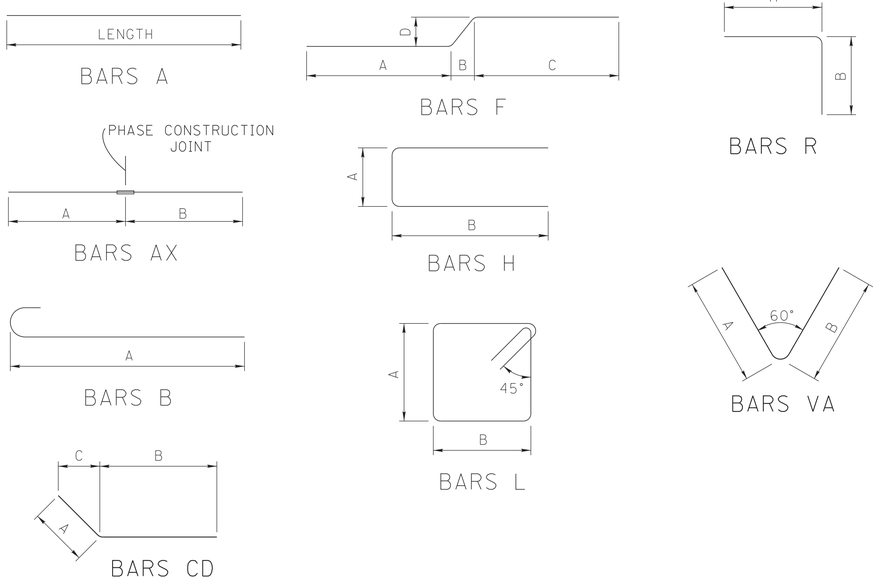
ABUTMENT NO. 2 (REGULAR)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A440	ROADWAY BRKT. (PH. I)	4	1					16'-11"
A441	ROADWAY BRKT. (PH. II)	4	1					30'-7"
A442	WINGWALL	4	8					12'-8"
A540	ABUT. BEAM (PH. I)	5	2					18'-10"
A541	ABUT. BEAM (PH. II)	5	2					32'-6"
A542	WING BEAM	5	4					14'-2"
A640	ENDWALL (PH. I)	6	6					18'-1"
A641	ENDWALL (PH. II)	6	6					31'-9"

ABUTMENT NO. 2 (REGULAR) - CONTINUED

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A642	WINGWALL	6	10					12'-8"
A740	ABUT. BEAM (PH. I)	7	10					18'-10"
A741	ABUT. BEAM (PH. II)	7	10					32'-6"
A742	WING BEAM	7	20					14'-2"
B640	ENDWALL	6	8	5'-0"				5'-8"
H540	RDWY. BRKT./PABE	5	48	3'-8"	6"			4'-8"
H642	WING BEAMS	6	24	9"	4'-8"			10'-1"
L540	ABUTMENT BEAM	5	50	2'-8"	2'-8"			11'-7"
L541	WING BEAM	5	22	2'-4"	2'-8"			10'-9"
VA850	PILES	8	20	2'-6"	2'-6"			5'-0"

NOTE: BAR NUMBERS ARE REPEATED ON BILL OF STEEL FOR EACH SUBSTRUCTURE. THE SUPPLIER SHALL SHIP THE BARS TO THE JOB SITE WITH THE SUBSTRUCTURE DESIGNATION INCLUDED AS PART OF THE LABEL.



PIN NO.: 124242.00
DESIGN BY: ABDISALAN DAHIR DATE: 02/2025
DRAWN BY: D. EASTERLY DATE: 06/2025
SUPERVISED BY: DRE/JBS DATE: 08/2025
CHECKED BY: A. BENNETT DATE: 02/2025

5/21/2026 10:35:18 AM

CONST. NO.: 13004-3216-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-33(126)	2026	

REVISIONS

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

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTE: DIMENSIONS SHOWN ON THIS SHEET ARE OUTSIDE TO OUTSIDE OF BAR. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY, EXCEPT AS NOTED.

NOTE: THE SUFFIX E FOR BARS SO MARKED DENOTES EPOXY COATED REINFORCEMENT.

SEALED BY

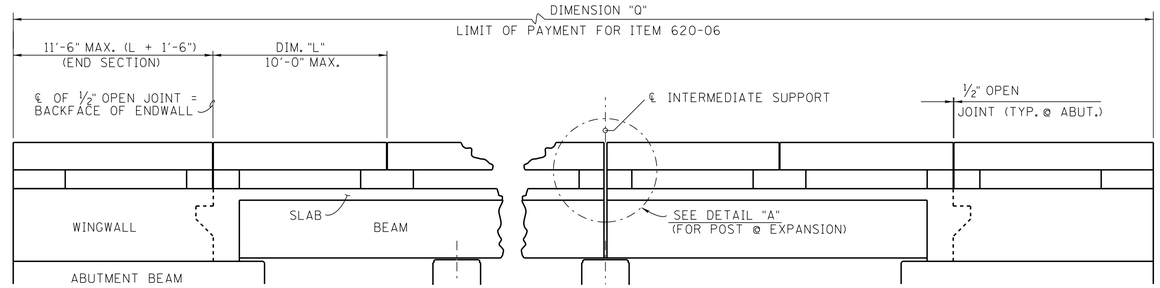


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

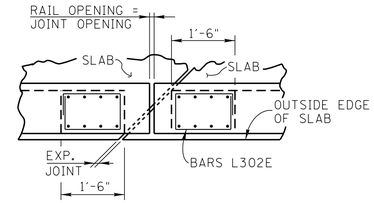
BILL OF STEEL
STATE ROUTE 33 OVER SOUTH FORK SYCAMORE CREEK
BRIDGE ID NO. 13SR0330009
LOG MILE 20.56
STATION 102+97.67
CLAIBORNE COUNTY

U-101-149

STD71.DGN

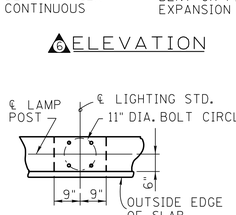


⑥ ELEVATION



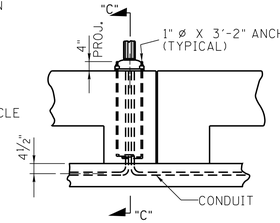
PLAN OF POST @ SKEWED EXPANSION JOINT DETAIL "A" ⑥ ④

(TYP. @ ANY EXPANSION OR CONSTRUCTION JOINT)

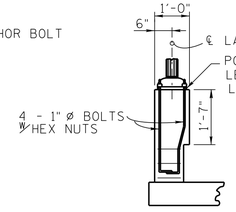


PLAN

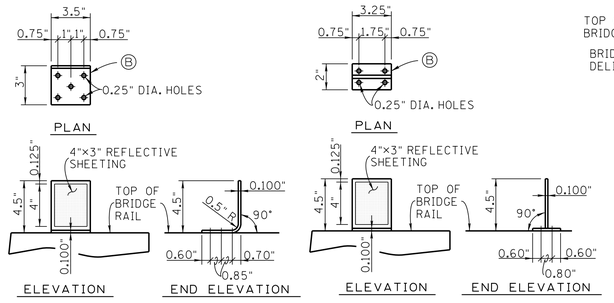
FOR LOCATION OF LIGHTING STD. IF APPLICABLE, SEE LAYOUT DWG.



LIGHT STANDARD MOUNTING AND CONDUIT PLACEMENT DETAILS



SECTION "C"-"C" ⑧



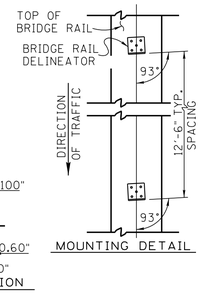
⑤① BRIDGE RAIL DELINEATOR

⑤⑥Ⓑ BRIDGE RAIL DELINEATORS SHALL BE HIGH IMPACT, UV-STABILIZED, ENGINEERED THERMOPLASTIC OR POLYCARBONATE SUBSTRATE. SEE TDOT APPROVED QUALIFIED PRODUCT LISTS FOR ACCEPTABLE PRODUCTS.

⑤① BRIDGE RAIL DELINEATOR REFLECTIVE SHEETING SHALL MEET ASTM D4956, TYPE V SPECIFICATIONS. THE REFLECTIVE SHEETING SHALL BE A MINIMUM OF 4"×3" AND HAVE MINIMUM COVEREGE AREA OF 12 SQUARE INCHES. THE COLOR OF THE DELINEATORS SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BRIDGE RAIL DELINEATORS WILL NOT BE REQUIRED IN AREAS WHERE ROADWAY IS LIGHTED.

⑤⑤ BRIDGE RAIL DELINEATORS SHALL BE MOUNTED TO THE CONCRETE PARAPET WITH A ONE COMPONENT ADHESIVE AS RECOMMENDED BY THE MANUFACTURER. THEY SHALL BE INSTALLED NO EARLIER THAN THREE WEEKS AFTER THE TEXTURE COATING HAS BEEN APPLIED.

⑤⑥ THE COST OF FURNISHING AND INSTALLING BRIDGE RAIL DELINEATORS, INCLUDING ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION, SHALL BE INCLUDED IN BID PRICE FOR CONCRETE BRIDGE RAIL.



PROJECT NO.	YEAR	SHEET NO.
	1987	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
⅛ 1	10-25-93	R.M.D.	COLOR OF DELINEATOR
2	12-20-93	RMD	ADDED ALT. MOUNT FOR DELINEATOR
⅛ 3	3-28-94	MAH	REVISED NOTE
⅛ 4	12-18-95	BRB	REVISED SPACING OF WINGPOST REINF. AND REVISED LENGTH OF BOLT
⅛ 5	5-21-99	CMH	REVISED NOTE Ⓑ ℄ DELINEATORS
⅛ 6	7-31-00	CMH	REVISED ELEVATION SHOWING JOINT LOCATION @ BACKFACE OF ENDWALL, EXPANSION JOINT DETAIL "A", BAR DETAILS INTERIOR ℄ WING POST REINFORCING
⅛ 7	11-1-10	JHW	EPOXY COAT STEEL ℄ NOTE
8	6-2-14	JHW	CHANGED HT. TO 2'-8"; GEN. REV.
9	4-15-20	JHW	REVISED GUARDRAIL ATTACHMENTS REMOVED PLATE DETAIL AND REMOVED PLAN OF OPTIONAL GUARDRAIL ATTACHMENT

GENERAL NOTES:

1) SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPT. OF TRANSPORTATION CURRENT EDITION.

2) DESIGN SPECIFICATIONS: AASHTO CURRENT EDITION WITH ADDENDA.

3) CONCRETE: TO BE CLASS "A".

④ 4) REINFORCING STEEL: TO BE ASTM A615 GRADE 60. STANDARD CRSI HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON THE BILL OF STEEL. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS. IF BARS IN BRIDGE DECK ARE NOT EPOXY COATED, THEN THE BARS IN THE RAIL NEED NOT BE EPOXY COATED. COST TO BE INCLUDED IN UNIT PRICE BID FOR RAIL.

5) FOR DIMENSIONS "Q" AND "L" SEE LAYOUT SHEET OF STRUCTURES. MAX. "L" = 10'-0" "Q" = OUT TO OUT WINGPOST.

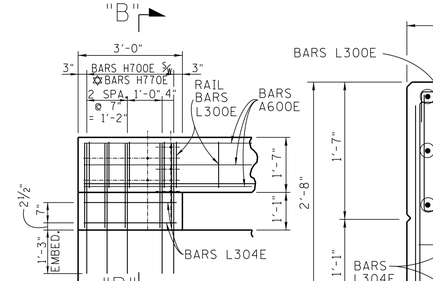
6) ALL POSTS SHALL BE VERTICAL. RAIL SHALL CONFORM TO LINE AND GRADE OF ROADWAY.

7) PAYMENT FOR CONCRETE RAIL SHALL BE BASED ON LINEAR FEET FROM END OF WINGPOST TO END OF WINGPOST.

8) RAILING SHALL NOT BE CONSTRUCTED ON ANY STRUCTURE UNTIL THE FALSEWORK HAS BEEN STRUCK.

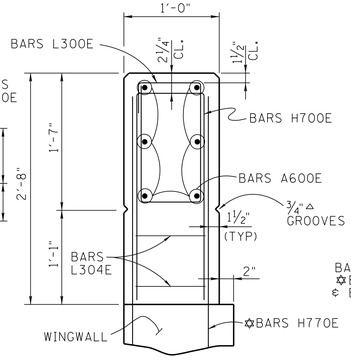
Ⓑ 9) THIS RAIL IS SIMILAR TO ONE THAT HAS BEEN SUCCESSFULLY CRASH TESTED TO THE SATISFACTION OF THE FEDERAL HIGHWAY ADMINISTRATION AND IS RECOMMENDED FOR USE IN FHWA BRIDGE RAIL GUIDE 2005 - LEVEL TL-4.

10) BASIS OF PAYMENT SHALL INCLUDE ALL MISCELLANEOUS ITEMS TO COMPENSATE FOR ALL LABOR, MATERIALS, TOOLS AND INCIDENTALS FOR THE ENTIRE CONCRETE RAIL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 620-06.

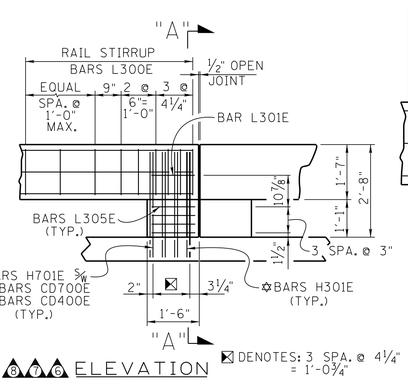


⑨ ⑧⑦⑥④ ELEVATION

@ END POST



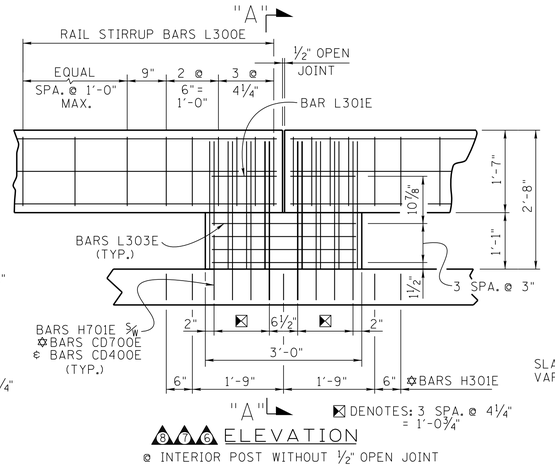
⑧⑦⑥④ SECTION "B"-"B"



⑧⑦⑥④ ELEVATION

@ INTERIOR POST WITH ½" OPEN JOINT

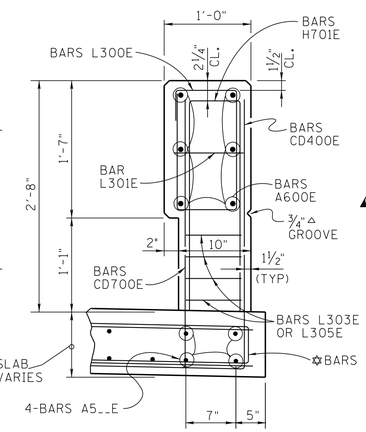
☒ DENOTES: 3 SPA. @ 4¼" = 1'-0¾"



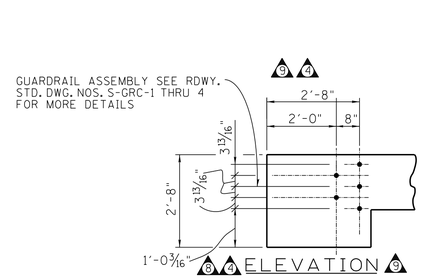
☒ DENOTES: 3 SPA. @ 4¼" = 1'-0¾"

⑧⑦⑥ ELEVATION

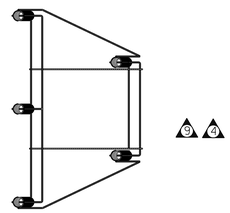
@ INTERIOR POST WITHOUT ½" OPEN JOINT



⑧⑦⑥ SECTION "A"-"A"



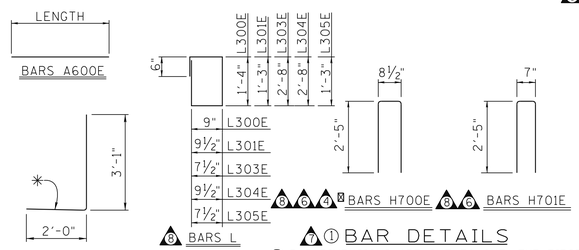
⑨④ ELEVATION ⑨



⑨④ INSERT ASSEMBLY

CAST IN PLACE THREADED STEEL INSERT WITH 7/8"×2" HEX HEAD GALVANIZED BOLTS (A307) HOT DIP ZINC COATING ASTM A153

FOR USE WHEN GUARDRAIL ATTACHMENTS REQUIRED



⑧ BARS CD700E ℄ CD400E ✡

✳ BEND THIS LEG TO MATCH SLOPE OF ROADWAY

⑧⑥④ ☒ BARS H700E ⑧⑥ BARS H701E ⑧ BARS L

⑧ BARS L302E ⑧ BARS H301E ✡

◕ DENOTES: SLAB DEPTH - 3½"

⑧① BAR DETAILS

① BAR DIMENSIONS ARE OUT TO OUT. THE FIRST DIGIT OF THE BAR NUMBER INDICATES SIZE.

☒ DENOTES: BARS TO BE USED IN LIEU OF H701 ON WINGWALLS AND RETAINING WALLS.

⑧⑥ ✡ BARS H770E TO BE INCLUDED IN REINFORCING QUANTITIES AND BILL OF STEEL FOR WINGWALLS.
✡ BARS H301E, CD700E ℄ CD400E TO BE INCLUDED IN REINFORCING QUANTITIES AND BILL OF STEEL FOR SUPERSTRUCTURE.
NOTE: BARS LISTED IN ABOVE NOTES ARE NOT INCLUDED IN WING POST OR INTERIOR POST QUANTITIES SHOWN THIS SHEET.

ESTIMATED QUANTITIES ⑧

ITEMS	CLASS "A" CONCRETE CY.	EPOXY COATED REINF. STEEL LB.
⑥ ✳ ⑥④ ONE INTER. POST, 90°	0.2762	140.7
⑥④ ONE WING POST, 90°	0.2963	96.5
ONE LINEAR FT. RAIL	0.0586	10.8
✳✳ ONE INTER. POST, 90°	0.1381	64.6

✳ DENOTES: INTERIOR POST ARE 3'-0" WITHOUT ½" OPEN JOINT.
✳✳ DENOTES: INTERIOR POST ARE 1'-6" WITH ½" OPEN JOINT.

⅛R MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD CONCRETE RAIL 1987

DESIGNED BY SEE GEN. NOTE NO. 9 DATE
DRAWN BY K. PHILLIPS ℄ M. SURDAM DATE 5-11-87
SUPERVISED BY JWF AND RMD DATE 5-11-87
CHECKED BY DATE

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-7-1



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Lori Fiorentino Digitally signed by Lori Fiorentino
Date: 2026.06.25 09:10:56 -04'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
MATERIALS & TESTS DIVISION- GEOTECHNICAL ENGINEERING SECTION
7345 REGION LN.
KNOXVILLE, TN 37914
LORI ANN FIORENTINO, P.E. NO. 113743

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

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
GEOTECHNICAL INDEX	G-1
GEOTECHNICAL NOTES	G-2
GEOTECHNICAL BORING LAYOUT	G-3
GEOTECHNICAL BORING PROFILE	G-4

YEAR	PROJECT NO.	SHEET NO.
2026	BR-STP-33(126)	GEOTECH-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	BR-STP-33(126)	G-1
P.I.H.	2026	BR-STP-33(126)	G-1
PS&E	2026	BR-STP-33(126)	G-1

GEOTECHNICAL INDEX

SHEET NAME **SHEET NO.**

SIGNATURE SHEET.....GEOTECH-SIGN1

GEOTECHNICAL INDEX.....G-1

GEOTECHNICAL NOTES.....G-2

GEOTECHNICAL BORING LAYOUT.....G-3

GEOTECHNICAL BORING PROFILE.....G-4

PS&E

SEALED BY

LORI ANN FIORENTINO
REGISTERED ENGINEER
COMMERCE
STATE OF TENNESSEE

06/25/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL INDEX

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	BR-STP-33(126)	G-2
P.I.H.	2026	BR-STP-33(126)	G-2
PS&E	2026	BR-STP-33(126)	G-2

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 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.

PS&E

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LORI ANN FIORENTINO
REGISTERED ENGINEER
COMMISSION NO. 113124
STATE OF TENNESSEE
06/25/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

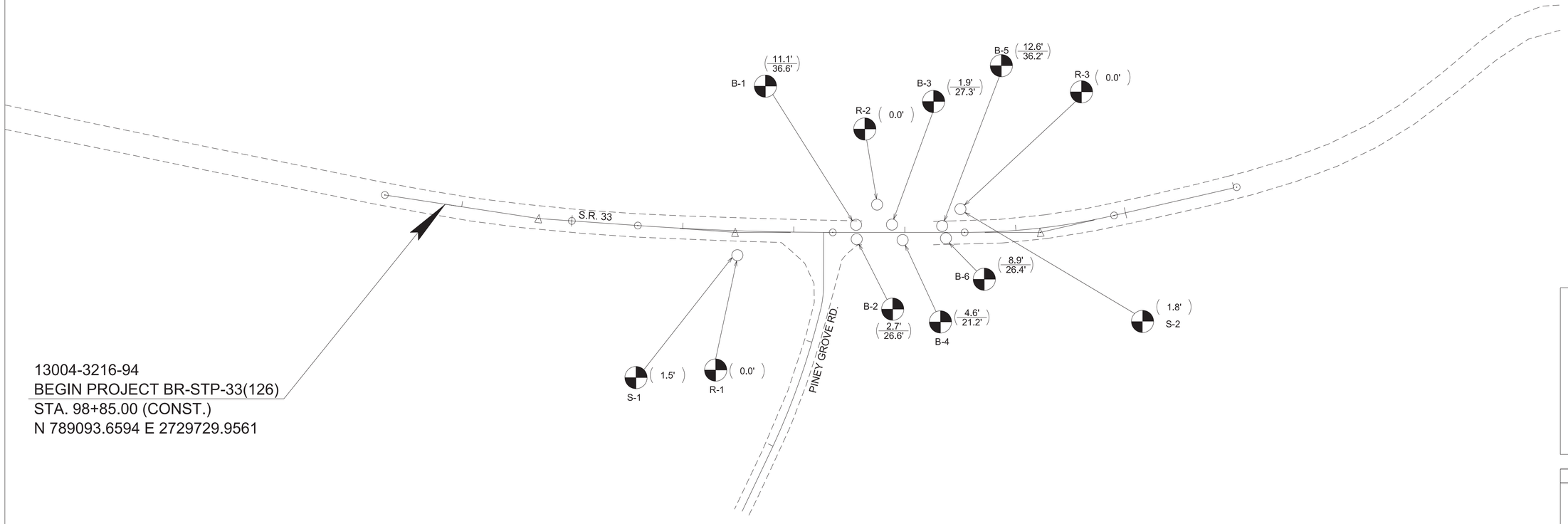
GEOTECHNICAL

NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	G-3
P.I.H.	2026	BR-STP-33(126)	G-3
PS&E	2026	BR-STP-33(126)	G-3

SAMPLE NO.	STATION	OFFSET (FT)	GROUND ELEVATION (FT)	ROCK ELEVATION (FT)	TOTAL DEPTH (FT)
B-1	102+56.1	6.8 LT	1136	1124.9	36.6
B-2	102+56.7	6.1 RT	1136	1124.9	26.6
B-3	102+88.4	7.0 LT	1127	1125.1	27.3
B-4	102+98.0	6.9 RT	1127	1122.4	21.2
B-5	103+33.6	5.8 LT	1136	1123.4	36.2
B-6	103+37.0	5.3 RT	1136.2	1127.3	26.4
S-1	101+50	22 RT	1130	N/A	1.5
S-2	103+50	21 LT	1123	N/A	1.8
R-1	101+50	22 RT	1129	N/A	Surface
R-2	102+75	25 LT	1125	N/A	Surface
R-3	103+50	21 LT	1125	N/A	Surface

NOTE:
BORING DEPICTIONS SHOWN ON FOUNDATION DATA SHEET INDICATE GENEREAL SOIL AND ROCK TYPE AT SPECIFIC BORING LOCATIONS.



LEGEND

- B-1 (24.5' / 70.3') — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- S-1 (24.5') — SURFACE SOIL SAMPLE (NO REFUSAL)
- R-1 (24.5') — SURFACE ROCK SAMPLE (NO REFULSAL)

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REGISTERED ENGINEER
STATE OF TENNESSEE
06/25/2026

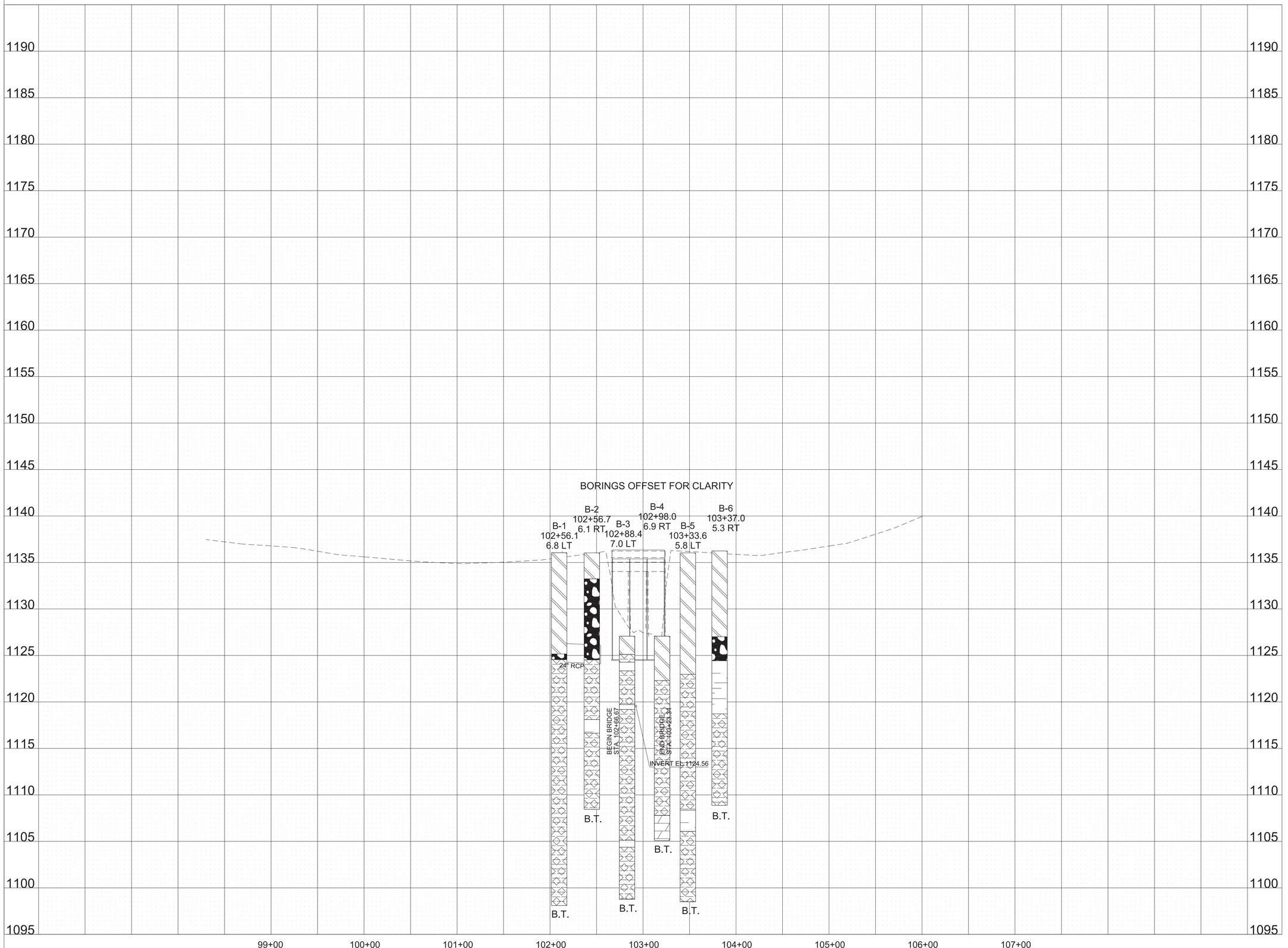
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2025	BR-STP-33(126)	G-4
P.I.H.	2026	BR-STP-33(126)	G-4
PS&E	2026	BR-STP-33(126)	G-4



LEGEND

- WEATHERED SHALE
- SHALE WITH HIGH APR POTENTIAL
- BOULDERS AND COBBLES
- CLAY
- DOLOMITE

B.T. - BORING TERMINATED

PS&E

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LORI ANN FIORENTINO
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
Lori Ann Fiorentino
06/25/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Gary M. Mryncza, PE
Digitally signed by Gary M. Mryncza, PE
Date: 2026.06.30 16:11:32 -05'00'

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KCI TECHNOLOGIES
500 11TH AVENUE NORTH
SUITE 290
NASHVILLE, TN 37203
GARY MRYNCZA, P.E. NO. 111554

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	NS-SIGN1
ENVIRONMENTAL MITIGATION GENERAL NOTES	NS-1
ENVIRONMENTAL MITIGATION STANDARD DRAWINGS AND QUANTITIES	NS-2
ENVIRONMENTAL MITIGATION TYPICAL GRADING DETAILS	NS-3
ENVIRONMENTAL MITIGATION PLAN AND PROFILE	NS-4
ENVIRONMENTAL MITIGATION PLANTING PLAN	NS-5
ENVIRONMENTAL MITIGATION DETAILS	NS-6
ENVIRONMENTAL MITIGATION CROSS SECTIONS	NS-7
ENVIRONMENTAL MITIGATION CROSS SECTIONS	NS-8

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-1

ENVIRONMENTAL

ECOLOGY

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR PLANTED SPECIES.

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

(3) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

CHANNEL/STREAM RELOCATION AND IMPLEMENTATION NOTES

(4) THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS), SEEDING, AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW-WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.

(5) CHANNEL RELOCATION SEQUENCE

- (A) FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW ROADWAY SLOPE AND THE STREAM.
- (B) EXCAVATE THE NEW CHANNEL "IN THE DRY" WHERE POSSIBLE. WHEN NOT POSSIBLE DIVERT WATER AROUND THE AREA BEING CONSTRUCTED USING A PUMP AROUND METHOD.
- (C) SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.
- (D) PLACE TOPSOIL, EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER, SEED, AND SOD AS SPECIFIED.
- (E) REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM, BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATION OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.
- (F) FILL IN OLD CHANNEL WITH THE EXCAVATED SOIL.
- (G) INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.

(6) ONLY RIP-RAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.

(7) REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF THE CHANNEL, DITCH, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATION SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS.

(8) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM CHANNEL THE ECOLOGY SECTION MUST BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE STREAM CHANNEL IS TO BE SUPPLIED WITH THE NOTIFICATION.

TREES

(9) NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

(10) THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.

(11) ALL TREES SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

(12) TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

(13) INSTALLATION OF LIVE STAKES AND BARE ROOT TREES SHALL OCCUR DURING THE DORMANT SEASON. THE DORMANT SEASON SHALL BE DESIGNATED AS THE PERIOD FROM NOVEMBER 6 TO MARCH 24.

GENERAL NOTES:

(1) THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION THROUGHOUT THE CONSTRUCTION OF THE PROJECT TO PREVENT EROSION AND SILTATION. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PROJECT PLANS, TDOT DESIGN DIVISION DRAINAGE MANUAL: EROSION PREVENTION AND SEDIMENT CONTROL, AND AS DIRECTED BY THE ENGINEER.

(2) THE NEW STREAM IS TO BE BUILT BEFORE THE EXISTING CHANNEL IS FILLED. ALL NEW WORK SHALL BE PERFORMED IN DRY OR ISOLATED AREAS, WITH NO STANDING WATER OR WATER FLOWING THROUGH THE WORK AREA.

(3) IF BEDROCK IS ENCOUNTERED ANY CHANGES TO THE DESIGNED PLANFORM, PROFILE, OR PLANTING PLAN WILL REQUIRE APPROVAL BY THE ENGINEER.

(4) ALL EXCAVATED MATERIAL SHALL BE STOCKPILED WITHIN THE LIMITS OF DISTURBANCE FOR LATER REUSE OR DISPOSAL. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE STABILIZATION MEASURES AROUND THE STOCKPILE AREA(S) AND ANY TEMPORARY OR PERMANENT SPOIL AND TOPSOIL PILES TO PREVENT EROSION AND SEDIMENTATION. ALL PERMANENT OR TEMPORARY SPOIL PILES SHALL HAVE SILT FENCE INSTALLED ON THE LOW SIDE OF THE SPOIL PILES.

(5) IN THE EVENT OF A STORM, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OR PROTECTION OF ANY EQUIPMENT, TOOLS, MATERIALS OR OTHER ITEMS NEEDED TO COMPLETE THE WORK THAT COULD BE AFFECTED BY STORM FLOWS.

(6) EACH SEDIMENT CONTROL DEVICE WILL BE REMOVED AFTER ALL WORK IN THE CORRESPONDING CONSTRUCTION PHASE HAS BEEN COMPLETED AND THE AREAS HAVE BEEN STABILIZED.

(7) ALL DISTURBED SOILS WILL BE SEEDED FOR VEGETATIVE STABILIZATION FOLLOWING THE GUIDELINES DESCRIBED ON THIS SHEET AND ACCORDING TO THE FOLLOWING SCHEDULE: TEMPORARY OR PERMANENT SEEDING MUST BE APPLIED ON ALL GRADED SLOPES AND FILL WITHIN 14 CALENDAR DAYS. IF A SLOPE IS 35% OR GREATER SEEDING MUST BE APPLIED WITHIN 7 DAYS.

(8) ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND FUNCTIONAL OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAIN EVENT AND AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART. ANY NEEDED MAINTENANCE OR REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM CONTROL MEASURES WHEN THEY REACH APPROXIMATELY 50% OF THEIR FUNCTIONAL CAPACITY. THESE MEASURES SHALL BE REPAIRED IF DISTURBED DURING MAINTENANCE. ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED AND MULCHED, AS NECESSARY, TO PROMOTE THE ESTABLISHMENT OF VEGETATION COVER.

(9) WHILE APPROXIMATE UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING A UTILITY LOCATOR AND ESTABLISHING THE EXACT LOCATION OF ANY AND ALL EXISTING UTILITIES IN THE PROJECT REACH.

(10) TOPSOIL WILL BE STOCKPILED AND REUSED BY MIXING THE SOIL INTO THE SURFACE OF THE DISTURBED SOILS ALONG THE BANKFULL BENCH AND TERRACE. IF ANY BANKS ARE TO BE CREATED (SUCH AS WITH VEGETATED SOIL LIFT STRUCTURES) THIS TOPSOIL WILL BE USED TO INCREASE THE LIKELIHOOD OF VEGETATIVE SUCCESS ALONG THE CHANNEL.

(11) THE CONTRACTOR SHALL STAKE OUT THE PROPOSED STREAM THALWEG AND STRUCTURE LOCATIONS FOR APPROVAL BY THE ENGINEER BEFORE INITIATING EXCAVATION. DEPENDING ON THE SITE CONDITIONS SOME SHIFTING OF THE STREAM CHANNEL AND STRUCTURES MAY BE NECESSARY. ANY COSTS ASSOCIATED WITH CHANGING CHANNEL ALIGNMENT AND STRUCTURE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

SPECIAL NOTES:

(1) CONSTRUCT NATURAL STREAM CHANNEL PURSUANT TO ALL PROVISIONS AND REQUIREMENTS OF APPLICABLE ARAPS, 404 PERMITS, NPDES PERMITS, AND PLANS.

(2) A REGISTERED TENNESSEE PROFESSIONAL ENGINEER WITH KNOWLEDGE OF THE MITIGATION SITE SHALL PREPARE AS-BUILT PLANS OF THE CONSTRUCTED NATURAL STREAM CHANNEL IMMEDIATELY FOLLOWING COMPLETION. A COPY OF THE ORIGINAL NATURAL STREAM CHANNEL PLANS, RED-LINED TO SHOW VARIANCES FROM THE ORIGINAL DESIGN, IS ACCEPTABLE TO MEET THIS REQUIREMENT. A SURVEY QUALITY AS-BUILT PLANS MAY BE REQUIRED IF PERMIT COMPLIANCE ISSUES ARE IDENTIFIED DUE TO DISCREPANCIES IN THE CONSTRUCTED NATURAL STREAM CHANNEL PLANS AND THE PERMITTED NATURAL STREAM CHANNEL PLANS. SUBMIT THE AS-BUILT PLANS TO THE TDOT ENVIRONMENTAL DIVISION MITIGATION OFFICE AT TDOT.ENV.MITIGATION@TN.GOV AND TO THE TDOT DISTRICT SUPERVISOR.

INDEX

SHEET#	DESCRIPTION
NS-1	ENVIRONMENTAL MITIGATION GENERAL NOTES
NS-2	ENVIRONMENTAL MITIGATION STANDARD DRAWINGS AND QUANTITIES
NS-3	ENVIRONMENTAL MITIGATION TYPICAL GRADING DETAILS
NS-4	ENVIRONMENTAL MITIGATION PLAN AND PROFILE
NS-5	ENVIRONMENTAL MITIGATION PLANTING PLAN
NS-6	ENVIRONMENTAL MITIGATION DETAILS
NS-7	ENVIRONMENTAL MITIGATION CROSS SECTIONS
NS-8	ENVIRONMENTAL MITIGATION CROSS SECTIONS

PROJECT LEGEND

PROPOSED THALWEG W/ TOP OF BANK AND STATIONING ..... 10+00 11+00

STREAM FLOODPLAIN EXTENT .....

CONSTRUCTED ALLUVIAL RIFFLE .....

WOOD TOE WITH GEO-LIFTS .....

CLAY CHANNEL PLUG .....

EXISTING CONTOURS (10') 590

EXISTING CONTOURS (2') .....

PROPOSED CONTOURS (5') 590

PROPOSED CONTOURS (1') .....

SEALED BY

GARY MICHAEL MRVINCA REGISTERED ENGINEER AGRICULTURE No. 111558 STATE OF TENNESSEE

06.30.26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL MITIGATION GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-2

STREAM MITIGATION QUANTITIES

	TDOT ITEM#	DESCRIPTION	UNIT	QUANTITY
①	203-02.05	BORROW EXCAVATION (OFFSITE SOIL)	C.Y.	182
②	203-15.03	COMPACTED CLAY	C.Y.	13
③	208-02.01	DITCH (RIPRAP, SAND & PLASTIC SHEETING)	L.F.	62
④	209-03.42	STREAM MITIGATION - LIVE BRUSH LAYERING	L.F.	56
⑤	209-03.67	STREAM MITIGATION - WOOD TOE W/REINFORCED EARTH	L.F.	56
⑥	209-03.99	PROTECTED AREA MARKER (WHITE WITH DECAL)	EACH	18
⑦	709-05.81	ROCK RIFFLES	LS	1
⑧	801-01.08	SEEDING (SPECIAL MIXTURE) WITH MULCH	UNIT	21
⑨	801-01.35	GRASS SEED MIX (RIPZN/FLPL) WITH MULCH	UNIT	21
⑩	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH	45
	802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	EACH	45
	802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	EACH	45
	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	EACH	45
⑪	802-12.07	BETULA NIGRA (RIVER BIRCH SEEDLNG B.R.)	EACH	22
	802-12.12	CORNUS FLORIDA (FLOWERING DOGWOOD SEEDLNG B.R.)	EACH	14
	802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	EACH	22
	802-12.35	QUERCUS NIGRA (WATER OAK SEEDLNG B.R.)	EACH	22
	802-12.37	QUERCUS PALUSTRIS (PIN OAK SEEDLNG B.R.)	EACH	14
	802-12.55	CARYA LACINIOSA (SHELLBARK HICKORY SEEDLING B.R.)	EACH	22
	802-13.57	ILEX OPACA (AMERICAN HOLLY SDLNG BARE ROOT)	EACH	22
	802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	EACH	46
	802-13.59	LINDERA BENZOIN (SPICEBUSH SDLNG BARE ROOT)	EACH	46
	802-13.62	ILEX VERTICILLATA (CMMN WINTERBERRY SDLNG B.R.)	EACH	46
⑫	805-12.08	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	335

① 182 C.Y. INCLUDES FILL QUANTITY THAT NEEDS TO BE HAULED IN FROM OFFSITE SINCE ONSITE MATERIAL IS UNSUITABLE FOR USE. QUANTITY IS IN ADDITION TO WHAT IS CALLED FOR ON THE ROADWAY PLANS.

② INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR INSTALLATION OF CLAY CHANNEL PLUG. SEE TDOT STANDARD DRAWING D-NSD-31 FOR MORE INFORMATION.

③ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR EXCEPT EXCAVATION NECESSARY TO BUILD ONE DRAINAGE DITCH CONVEYING WATER FROM FLOODPLAIN TO STR-2. THE TOTAL GEOTEXTILE NEEDED FOR THE DITCH IS 27.3 SQUARE YARDS. THE TOTAL A-3 RIPRAP NEEDED FOR THE DITCH IS 3.4 CUBIC YARDS. SEE SHEET NS-3 FOR DIMENSION INFORMATION AND SHEET NS-4 FOR LOCATION INFORMATION.

④ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO INSTALL ALL LIVE BRUSH LAYERS. REFER TO PLANTING SHEET NS-5 FOR PLANTING SPECIES INFORMATION. LIVE BRUSH LAYERING WILL OCCUR AT ALL GEO-LIFT LOCATIONS. SPECIES USED IN LIVE BRUSH LAYERING WILL BE THE SAME AS THOSE USED FOR LIVE STAKES/CUTTINGS. HOWEVER, SPECIES USED FOR LIVE BRUSH LAYERING ARE NOT INCLUDED IN ANY QUANTITIES RELATING TO CUTTINGS.

⑤ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR EXCEPT EXCAVATION AND LIVE BRUSH LAYERING NECESSARY TO CONSTRUCT ANY WOOD TOE WITH GEO-LIFT STRUCTURE. FOR ANY LIVE BRUSH LAYERING REQUIRED REFER TO ITEM NUMBER 209-03.67. ANY GEOTEXTILE (TYPE III) REQUIRED FOR THE WOOD TOE STRUCTURE IS INCLUDED IN THIS ITEM NUMBER. REFER TO TDOT STANDARD DRAWING D-NSD-32 FOR MORE INFORMATION.

⑥ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR EXCEPT EXCAVATION NECESSARY TO INSTALL SIGNS (PROTECTED AREA MARKERS). SEE PLANTING SHEET NS-5 FOR SIGN LOCATION INFORMATION.

⑦ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR EXCEPT EXCAVATION NECESSARY FOR CONSTRUCTED ALLUVIAL RIFFLES. SEE TDOT STANDARD DRAWING D-NSD-29 FOR MORE INFORMATION. CHANNEL DIMENSIONS CAN BE FOUND ON SHEET NS-3. SUBSTRATE REQUIRED CAN BE FOUND ON SHEET NS-1. ANY NATURAL SUBSTRATE (GRAVEL OR ROCK) LESS THAN 6" CAN USED INSTEAD OF CLASS A-3 ROCK.

⑧ ITEM QUANTITY IS THE CUSTOM TEMPORARY SEED MIXTURE. THE CUSTOM TEMPORARY SEED MIXTURE IS 21 UNITS. SEE PLANTING SHEETS NS-4 FOR MORE INFORMATION ON SEEDING MIXTURE COMPOSITIONS AND SEEDING AREAS.

⑨ ITEM QUANTITY IS THE PERMANENT SEED MIXTURE. THE PERMANENT SEED MIXTURE IS 21 UNITS. SEE PLANTING SHEETS NS-5 FOR MORE INFORMATION ON SEEDING MIXTURE COMPOSITIONS AND SEEDING AREAS.

⑩ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR LIVE STAKE (CUTTING) INSTALLATION. WHILE EIGHT SPECIES OF CUTTINGS ARE LISTED ON TDOT STANDARD DRAWING D-NSD-34, ONLY THE FOUR LISTED ON PLANTING SHEET NS-5 WILL BE USED. CUTTINGS WILL BE SPACED OUT EVERY 3 FEET AND HAVE 1 ROW IN PLANTING ZONE Z1 EXCEPT WHERE GEO-LIFT STRUCTURES OR POOL INNER BENDS ARE PRESENT. CUTTING QUANTITIES LISTED ARE NOT ASSOCIATED WITH LIVE BRUSH LAYERING EVEN THOUGH THE SAME SPECIES WILL BE USED.

⑪ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR BARE ROOT PLANTINGS. SEE PLANTING SHEET NS-5 FOR PLANTING RATES.

⑫ INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO INSTALL 700 GRAM COIR FIBER EROSION CONTROL BLANKET ALONG THE BANKS OF THE PROPOSED STREAM AS SHOWN ON TDOT STANDARD DRAWING D-NSD-33. COIR FIBER MATTING QUANTITY IS RELATED TO BANK STABILIZATION AND IS NOT ASSOSCIATED WITH WOOD TOE WITH GEO-LIFT STRUCTURES. ALL COIR FIBER MATTING NEEDED FOR WOOD TOE WITH GEO-LIFT STRUCTURES IS COVERED BY ITEM NUMBERS 209-03.67. CALCULATIONS ASSUME A 6 FOOT-WIDE ROLL OF FIBER MATTING. MATTING WILL NOT OCCUR ALONG THE INNER MEANDERS OF POOLS.

TDOT STANDARD DRAWINGS		REV. DATE
D-NSD-29	CONSTRUCTED ALLUVIAL RIFFLE	5/1/2020
D-NSD-31	CLAY CHANNEL PLUG	5/1/2020
D-NSD-32	WOOD TOE WITH GEO-LIFTS	5/1/2020
D-NSD-33	COIR FIBER EROSION CONTROL BLANKET AND COIR FIBER ROLLS	5/1/2020
D-NSD-34	LIVE STAKES AND LIVE SILTATION	5/1/2020
D-NSD-37	SPECIAL NOTES FOR NATURAL STREAM DESIGN	5/1/2020

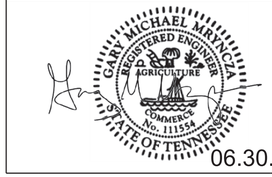
STR-2			
STRUCTURE	ROCK TYPE	MIXTURE PERCENTAGE	D50 (IN)
ALLUVIAL RIFFLE	CLASS A-3	100%	4.0"
ROCK "V" DITCH	CLASS A-3	100%	4.0"

SUBSTRATE SIZING (INCHES)			
MATERIAL	MINIMUM	MEDIAN	MAXIMUM
MACHINED RIPRAP (CLASS A-3)	2.0"	4.0"	6.0"

NOTE:
SEE TYPICAL GRADING SHEET NS-3 FOR EXCAVATION DEPTH REQUIRED. ANY GRAVEL OR COBBLE FOUND AT THE SITE THAT MEETS THE SIZE SPECIFICATIONS IN THE TABLE ABOVE SHOULD BE USED INSTEAD OF CLASS A-3 ROCK IN ALLUVIAL RIFFLES. THE TOTAL VOLUME REQUIRED FOR ALL ALLUVIAL RIFFLE SUB-GRADE IS APPROXIMATELY 10 CUBIC YARDS.

TOP DRESS THE PLACED RIPRAP WITH NATIVE GRAVEL OR SOIL IF AVAILABLE IN ORDER TO FILL VOID SPACE OF PLACED A-3 ROCK.

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06.30.26

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DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL MITIGATION STANDARD DRAWINGS AND QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-3

LEFT BANK ONLY FLOODPLAIN/TERRACE
TIE-OUT INFORMATION

STA 10+00 TO STA 10+40.52

LEFT FLOODPLAIN WILL EXTEND OUT FLAT FROM TOB UNTIL IT TIES INTO THE EXISTING GROUND.

STA 10+40.52 TO STA 11+58.54

LEFT FLOODPLAIN WILL END AT EXTENT SHOWN ON SHEET NS-4. FLOODPLAIN TERRACE WILL TIE-OUT AT A 2:1 SLOPE WITH THE EXISTING GROUND.

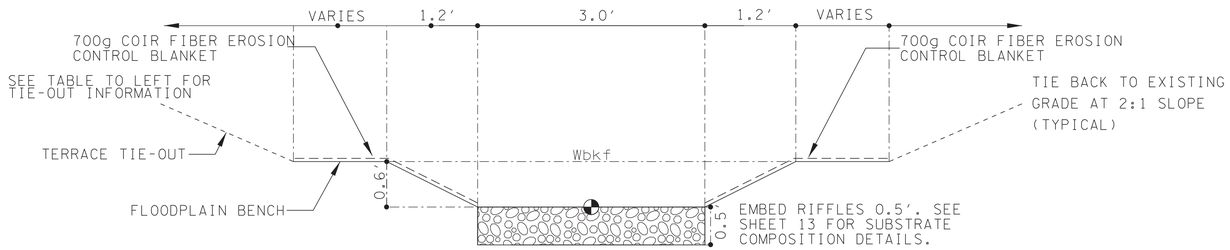
STA 11+58.54 TO STA 12+23.88

LEFT FLOODPLAIN WILL EXTEND OUT FLAT FROM TOB UNTIL IT TIES INTO THE 6:1 ROADWAY SLOPE.

STA 12+23.88 TO STA 13+34.68

LEFT FLOODPLAIN WILL END AT EXTENT SHOWN ON SHEET NS-4. FLOODPLAIN TERRACE WILL TIE-OUT AT A 2:1 SLOPE WITH THE 6:1 ROADWAY SLOPE.

SR-33 STR-2
TYPICAL CROSS-SECTIONS - "C" TYPE
STA 10+00 TO STA 13+30

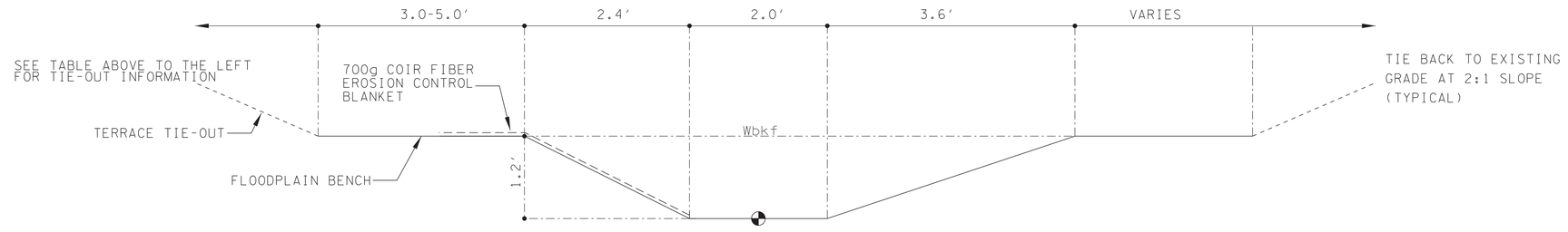


= THALWEG LOCATION

TYPICAL RIFFLE

NOTE: RIFFLE CROSS-SECTION IS SYMMETRICAL

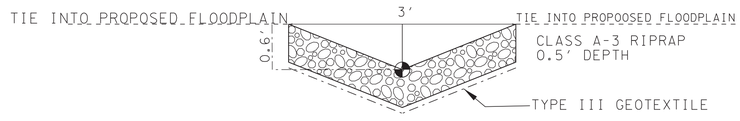
SR-33 STR-2
TYPICAL CROSS-SECTION - "C" TYPE
STA 10+00 TO STA 13+30



= THALWEG LOCATION

TYPICAL POOL - RIGHT MEANDER (LEFT OUTER BEND)

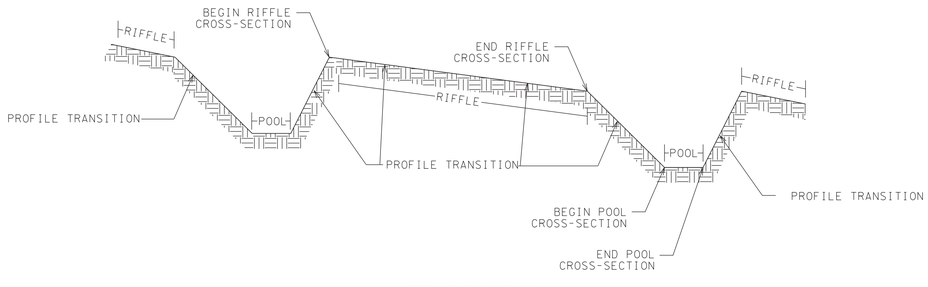
NOTE: MIRROR SECTION FOR LEFT MEANDERS (RIGHT OUTER BEND)



= THALWEG LOCATION

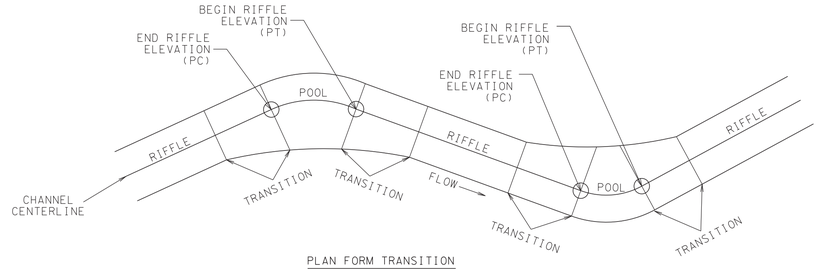
PROPOSED DRAINAGE DITCH

NOTE: ONE DRAINAGE DITCH PRESENT. SEE SHEET NS-4 FOR LOCATION.



PROFILE TRANSITION

NOTES:
- SEE PROFILE IN SHEETS FOR BEGIN AND END FEATURES
- BLEND CROSS-SECTION SMOOTHLY IN TRANSITION AREAS



PLAN FORM TRANSITION

NOTES:
- BEGIN THE TRANSITION OF THE CROSS-SECTION FROM THE RIFFLE TO POOL IN THE LAST 1/3 OF THE RIFFLE. END THE TRANSITION OF THE CROSS-SECTION FROM THE POOL TO THE RIFFLE IN THE FIRST 1/3 OF THE RIFFLE. THE TRANSITION INCLUDES THE TOP OF BANK, BOTTOM OF BANK, AND BANK SLOPES.
- THE ELEVATION OF THE CHANNEL BOTTOM SHALL FOLLOW THE PROFILE AND SHALL NOT TRANSITION.
- BLEND CROSS-SECTION SMOOTHLY IN TRANSITION AREAS.

RIFFLE/POOL GRADING SEQUENCE

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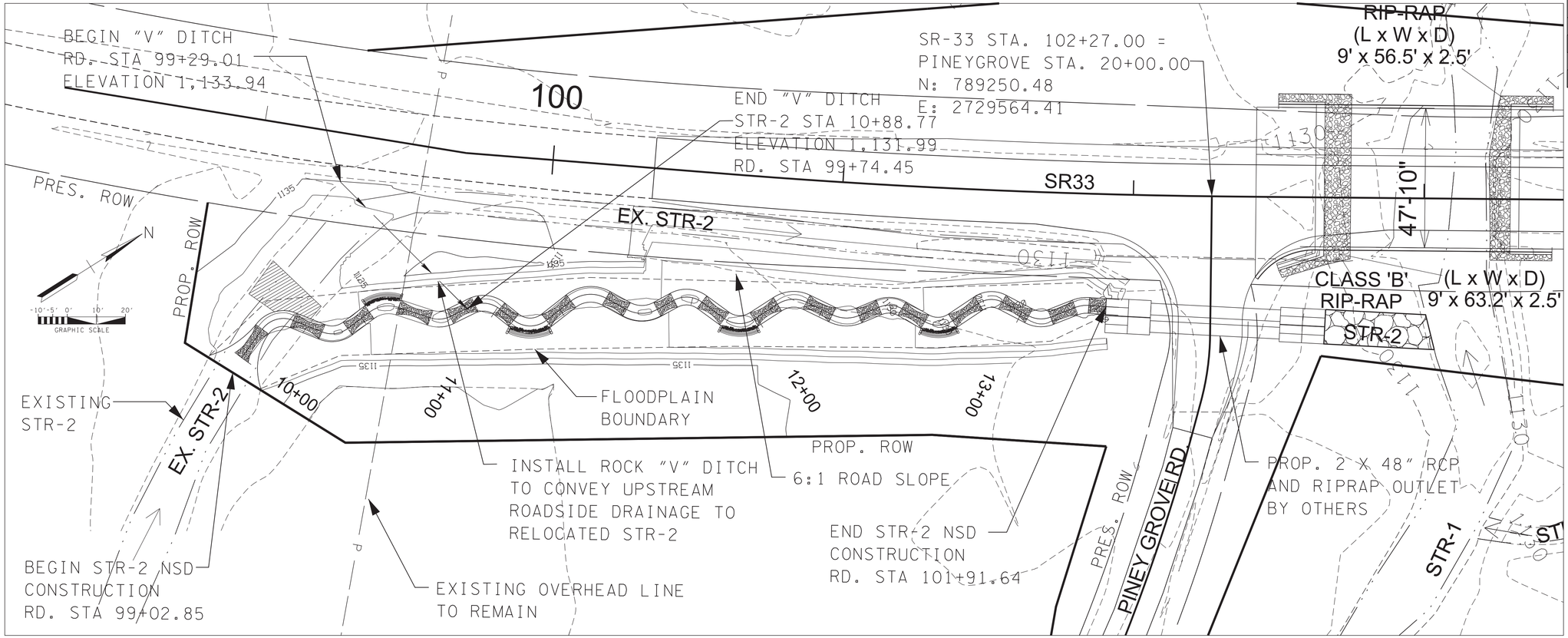
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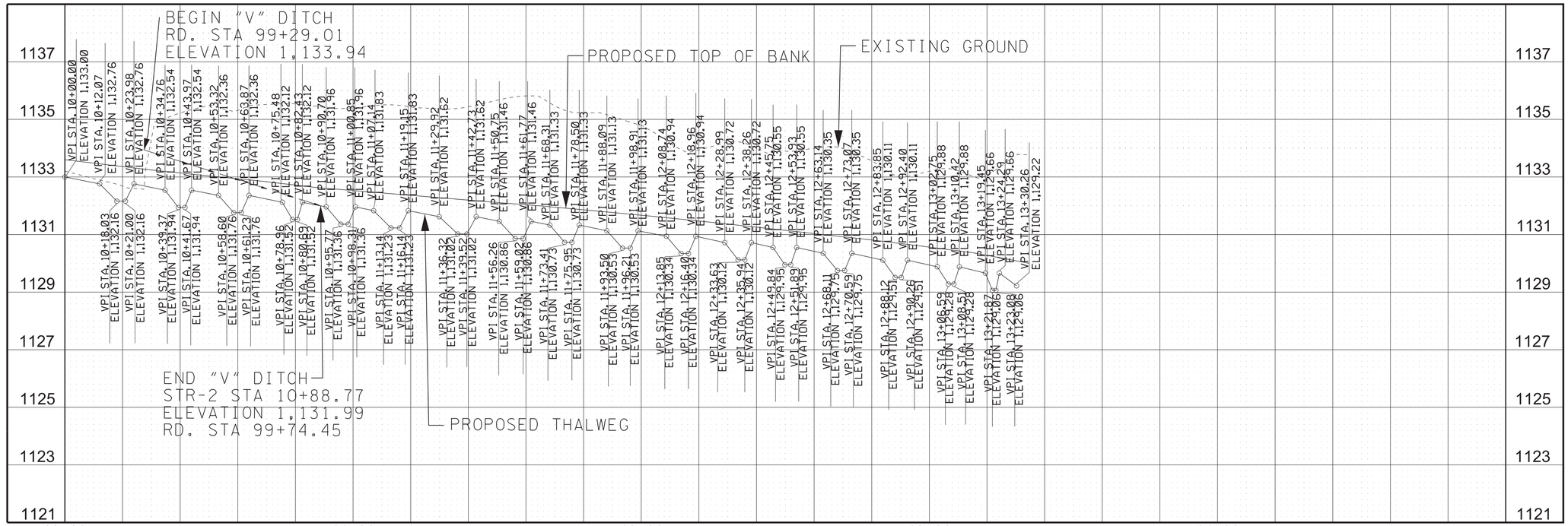
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL MITIGATION TYPICAL GRADING DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-4





SEALED BY

CARL MICHAEL MEYNCKE
REGISTERED ENGINEER
AGRICULTURE
No. 111554
STATE OF TENNESSEE

06.30.26

COORDINATES ARE NAD 83(1995), 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.

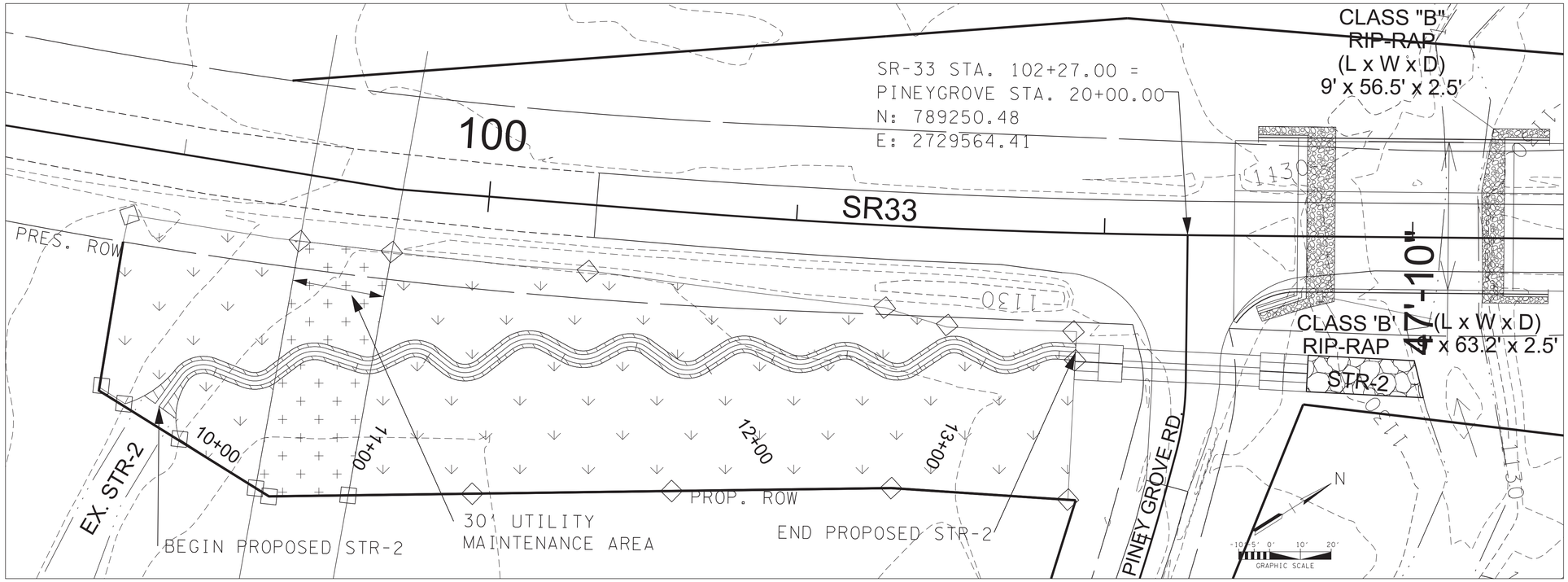
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL MITIGATION PLAN AND PROFILE

STA.10+00 TO STA.13+30.26

SCALE: 1"=20'

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◇ — NO MOW SIGN (TYPICAL OF 18)

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-5



NOTES:
(1) THE PROTECTED AREA SIGN SHALL BE WHITE WITH BLACK LETTERING.
(2) PROTECTED AREA SIGN SHALL BE PAID FOR UNDER ITEM NO. 209-03.99, PROTECTED AREA SIGN PER EACH SHOWN IN DETAIL ON THIS SHEET. PAYMENT SHOULD INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT AS SHOWN IN DETAIL.
(3) PROTECTED AREA SIGN TO BE 72" WHITE DUAL SIDED MARKERS AND CUSTOM PROTECTED AREA DECALS TO BE PRE-APPLIED TO BOTH SIDES.

TEMPORARY SEED MIX

THE CONTRACTOR SHALL UTILIZE THE FOLLOWING SEED MIX IN SEEDING ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS:

SUMMER MIX (APRIL 15 - AUGUST 15)

GERMAN MILLET	SETARIA ITALICA	20 LBS / ACRE
BROWNTOP MILLET	UROCHLOA RAMOSA	20 LBS / ACRE

WINTER MIX (AUGUST 15 - APRIL 15)

RYE GRAIN	SECALE CEREALE	100 LBS / ACRE
WHEAT	TRITICUM AESTIVUM	20 LBS / ACRE

PERMANENT SEED MIX

COMMON NAME	SCIENTIFIC NAME	LBS/AC
BEAKED PANICGRASS	PANICUM ANCEPS	2.8
INDIANGRASS	SORGHASTRUM NUTANS	1.1
VIRGINIA WILDRYE	ELYMUS VIRGINICUS	1.0
BIG BLUESTEM	ANDROPOGON GERADII	0.7
REDTOP PANICGRASS	PANICUM RIGIDULUM	0.7
AUTUMN BENTGRASS	AGROSTIS PERENNANS	0.3
PURPLEHEAD SNEEZEWEED	HELENIUM FLEXUOSUM	0.1
WILD SENNA	SENNA HEBECARPA	0.1
JOE PYE WEED	EUPATORIUM FISTULOSUM	0.1
IRONWEED	VERNONIA NOVEBORACENSIS	0.1

TOTAL SEEDING ACREAGE = 0.47 AC.
APPLY TEMPORARY AND PERMANENT SEED MIXES TOGETHER

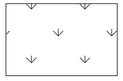
SEEDBED PREPARATION

THE SEEDBED SHALL BE COMPRISED OF LOOSE SOIL AND NOT COMPACTED. THIS MAY REQUIRE LIGHT MECHANICAL LOOSENING OF THE SOIL. SOIL AMENDMENTS SHOULD FOLLOW THE FERTILIZER AND LIMING DESCRIPTION IN THE ABOVE SECTIONS. FOLLOWING SEEDING, MULCHING SHALL FOLLOW THE BELOW APPLICATION METHODS AND AMOUNTS.

MULCHING

SEEDED AREAS ARE TO BE PROTECTED BY SPREADING STRAW MULCH UNIFORMLY TO FORM A CONTINUOUS BLANKET (75% COVERAGE = 2 TONS/ACRE) OVER SEEDED AREAS. CONTRACTOR MAY PROPOSE ALTERNATE METHODS OF SEED, FERTILIZER AND LIMING (HYDRO-SEEDING) UPON SUBMISSION TO THE ENGINEER OF CALCULATIONS SHOWING THE EQUIVALENCY OF THE PROPOSED METHOD.

RIPARIAN ZONE

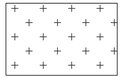


RIPARIAN PLANTING ZONE = 0.40 ACRES

12" - 18" BARE ROOT MATERIAL
680 STEMS/ACRE (8' X 8' SPACING)
* RANDOM SPECIES PLACEMENT *

COMMON NAME	SCIENTIFIC NAME	STATUS	% OF TOTAL	# OF PLANTS
RIVER BIRCH	BETULA NIGRA	FACW	8	22
FLOWERING DOGWOOD	CORNUS FLORIDA	FACU	5	14
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	8	22
WATER OAK	QUERCUS NIGRA	FAC	8	22
PIN OAK	QUERCUS PALUSTRIS	FACW	5	14
SHELLBARK HICKORY	CARYA LACINIOSA	FAC	8	22
AMERICAN HOLLY	ILEX OPACA	FACU	8	22
NINEBARK	PHYSOCARPUS OPULIFOLIUS	FACW	16.7	46
SPICEBUSH	LINDERA BENZOIN	FAC	16.7	46
WINTERBERRY	ILEX VERTICILLATA	FAC	16.7	46
				276

SHRUB ZONE

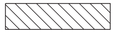


RIPARIAN SHRUB ONLY PLANTING ZONE = 0.05 ACRES

12" - 18" BARE ROOT MATERIAL
680 STEMS/ACRE (8' X 8' SPACING)
* RANDOM SPECIES PLACEMENT *

COMMON NAME	SCIENTIFIC NAME	STATUS	% OF TOTAL	# OF PLANTS
NINEBARK	PHYSOCARPUS OPULIFOLIUS	FACW	33.3	12
SPICEBUSH	LINDERA BENZOIN	FAC	33.3	12
WINTERBERRY	IIEX VERTICILLATA	FAC	33.3	12
				36

STREAM ZONE



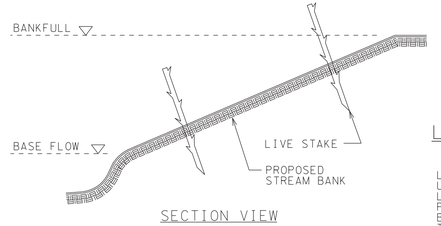
STREAM ZONE = 0.02 ACRES
LIVE STAKES: 1.5' TO 2' LENGTHS, 1/2" TO 2" DIAMETER, ONE ROW AT 3' SPACING
* RANDOM SPECIES PLACEMENT *

COMMON NAME	SCIENTIFIC NAME	STATUS
BLACK WILLOW	SALIX NIGRA	OBL
SILKY WILLOW	SALIX SERICEA	OBL
SILKY DOGWOOD	CORNUS AMOMUM	FACW
ELDERBERRY	SAMBUCUS CANADENSIS	FAC

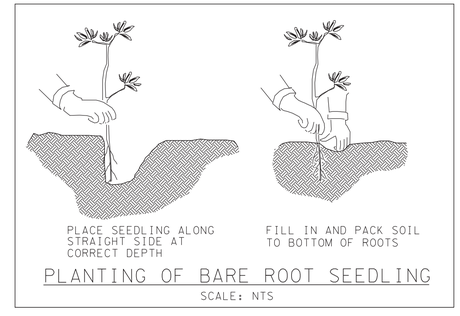
NOTES:

AT LEAST THREE OF THE LISTED SPECIES MUST BE INSTALLED AND NO SINGLE LIVE STAKING SPECIES SHALL COMPOSE MORE THAN 40% OF THE TOTAL NUMBER OF LIVE STAKES TO BE INSTALLED.

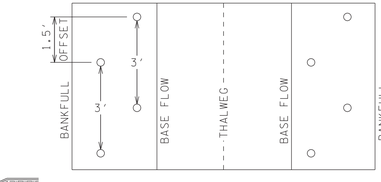
LIVE STAKES WILL NOT BE INSTALLED ALONG LIVE LIFT STRUCTURES OR ON THE INNER BENDS OF POOLS. ONLY THE LIVE STAKES LISTED IN THE ABOVE TABLE WILL BE USED. THE FOUR OTHER SPECIES LISTED IN TDOT STANDARD DRAWING D-NSD-34 WILL NOT BE USED.



SECTION VIEW



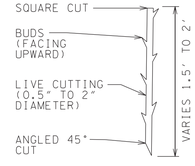
PLANTING OF BARE ROOT SEEDLING
SCALE: NTS



PLAN VIEW

LIVE STAKES DETAIL

NOTE:
LIVE STAKES SHALL NOT BE USED ON INNER BAR LOCATIONS. LIVE STAKES SHOULD ONLY BE PLACED ALONG RIFFLES OR OUTER BENDS OF POOLS WHERE WOOD/STONE TOE STRUCTURES ARE NOT PRESENT.



SEALED BY



06.30.26

COORDINATES ARE NAD 83(1995), 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

ENVIRONMENTAL MITIGATION PLANTING PLAN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-6

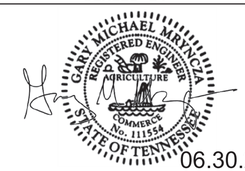
STR-2 GEOMETRY

FEATURE	LENGTH (FT)	BEARING	RADIUS	STATION	NORTHING	EASTING	CURVE CENTER NORTHING	CURVE CENTER EASTING	CURVE CENTER DELTA/THETA	CURVE CENTER ROTATION
POB	12.07	N 21°45'59" W		10+00.0000	788938.7662	2729709.1214				
PC	11.91	N 16°08'51" E	9	10+12.0705	788949.9762	2729704.6454	788953.3136	2729713.004	75°49'40"	Right
PT	10.78	N 54°03'41" E		10+23.9815	788960.6004	2729707.7215				
PC	9.21	N 24°44'43" E	9	10+34.7591	788966.9260	2729716.4475	788974.2128	2729711.165	58°37'56"	Left
PT	9.35	N 4°34'15" W		10+43.9690	788974.9300	2729720.1366				
PC	10.55	N 22°54'41" E	11	10+53.3196	788984.2508	2729719.3914	788985.1274	2729730.356	54°57'52"	Right
PT	11.61	N 50°23'37" E		10+63.8720	788993.6023	2729723.3438				
PC	6.95	N 28°17'09" E	9	10+75.4856	789001.0061	2729732.2914	789007.94	2729726.554	44°12'56"	Left
PT	8.27	N 6°10'41" E		10+82.4309	789006.9715	2729735.5015				
PC	10.14	N 38°28'06" E	9	10+90.7012	789015.1937	2729736.3916	789014.2252	2729745.339	64°34'49"	Right
PT	6.29	N 70°45'30" E		11+00.8455	789022.7224	2729742.3733				
PC	12.01	N 32°31'31" E	9	11+07.1345	789024.7950	2729748.3111	789033.2922	2729745.345	76°27'58"	Left
PT	10.77	N 5°42'28" W		11+19.1458	789034.1873	2729754.3005				
PC	12.81	N 27°38'56" E	11	11+29.9188	789044.9069	2729753.2290	789046.0009	2729764.175	66°42'48"	Right
PT	8.02	N 61°00'20" E		11+42.7268	789055.6222	2729758.8425				
PC	11.02	N 32°17'59" E	11	11+50.7492	789059.5109	2729765.8595	789069.1322	2729760.528	57°24'41"	Left
PT	6.54	N 3°35'39" E		11+61.7715	789068.4426	2729771.5058				
PC	10.19	N 36°00'55" E	9	11+68.3143	789074.9727	2729771.9160	789074.4085	2729780.898	64°50'33"	Right
PT	9.59	N 68°26'11" E		11+78.4998	789082.7786	2729777.5905				
PC	10.82	N 33°59'18" E	9	11+88.0882	789086.3026	2729786.5079	789094.6727	2729783.2	68°53'46"	Left
PT	9.83	N 0°27'35" W		11+98.9104	789094.7449	2729792.1998				
PC	10.22	N 28°48'53" E	10	12+08.7391	789104.5734	2729792.1209	789104.6536	2729802.121	58°32'55"	Right
PT	10.03	N 58°05'20" E		12+18.9578	789113.1423	2729796.8346				
PC	9.28	N 33°55'48" E	11	12+28.9871	789118.4438	2729805.3482	789127.7814	2729799.534	48°19'04"	Left
PT	7.49	N 9°46'16" E		12+38.2634	789125.9145	2729810.3740				
PC	8.17	N 35°47'13" E	9	12+45.7581	789133.3004	2729811.6459	789131.773	2729820.515	52°01'54"	Right
PT	9.21	N 61°48'10" E		12+53.9312	789139.7049	2729816.2628				
PC	9.93	N 30°11'02" E	9	12+63.1367	789144.0546	2729824.3759	789151.9866	2729820.123	63°14'16"	Left
PT	10.78	N 1°26'06" W		12+73.0701	789152.2120	2729829.1205				
PC	8.55	N 29°11'02" E	8	12+83.8486	789162.9871	2729828.8505	789163.1875	2729836.848	61°14'17"	Right
PT	10.35	N 59°48'11" E		12+92.3991	789170.1019	2729832.8242				
PC	7.68	N 35°21'44" E	9	13+02.7465	789175.3064	2729841.7675	789183.0851	2729837.241	48°52'53"	Left
PT	9.03	N 10°55'18" E		13+10.4248	789181.3799	2729846.0777				
PC	4.84	N 23°31'51" E	11	13+19.4519	789190.2435	2729847.7880	789188.1593	2729858.589	25°13'07"	Right
PT	10.38	N 36°08'25" E		13+24.2935	789194.6468	2729849.7055				
POE				13+30.2610	789199.4273	2729853.2796				

STR-2 STRUCTURES

TREATMENT	BEGIN STATION	THALWEG EL.	TOB EL.	END STATION	THALWEG EL.	TOB EL.	BANK
Rock Riffle	10+00.00	1133.00	1133.60	10+12.07	1132.76	1133.36	
Rock Riffle	10+23.98	1132.76	1133.36	10+34.76	1132.54	1133.14	
Rock Riffle	10+43.97	1132.54	1133.14	10+53.32	1132.36	1132.96	
Wood Toe with Geo-Lift	10+53.32			10+63.87			Left
Rock Riffle	10+63.87	1132.36	1132.96	10+75.49	1132.12	1132.72	
Rock Riffle	10+82.43	1132.12	1132.72	10+90.70	1131.96	1132.56	
Rock Riffle	11+00.85	1131.96	1132.56	11+07.13	1131.83	1132.43	
Wood Toe with Geo-Lift	11+07.13			11+19.15			Right
Rock Riffle	11+19.15	1131.83	1132.43	11+29.92	1131.62	1132.22	
Rock Riffle	11+42.73	1131.62	1132.22	11+50.75	1131.46	1132.06	
Rock Riffle	11+61.77	1131.46	1132.06	11+68.31	1131.33	1131.93	
Rock Riffle	11+78.50	1131.33	1131.93	11+88.09	1131.13	1131.73	
Wood Toe with Geo-Lift	11+88.09			11+98.91			Right
Rock Riffle	11+98.91	1131.13	1131.73	12+08.74	1130.94	1131.54	
Rock Riffle	12+18.96	1130.94	1131.54	12+28.99	1130.72	1131.32	
Rock Riffle	12+38.26	1130.72	1131.32	12+45.76	1130.55	1131.15	
Rock Riffle	12+53.93	1130.55	1131.15	12+63.14	1130.35	1130.95	
Wood Toe with Geo-Lift	12+63.14			12+73.07			Right
Rock Riffle	12+73.07	1130.35	1130.95	12+83.85	1130.11	1130.71	
Rock Riffle	12+92.40	1130.11	1130.71	13+02.75	1129.88	1130.48	
Rock Riffle	13+10.42	1129.88	1130.48	13+19.45	1129.66	1130.26	
Rock Riffle	13+24.29	1129.66	1130.26	13+30.26	1129.34	1129.94	

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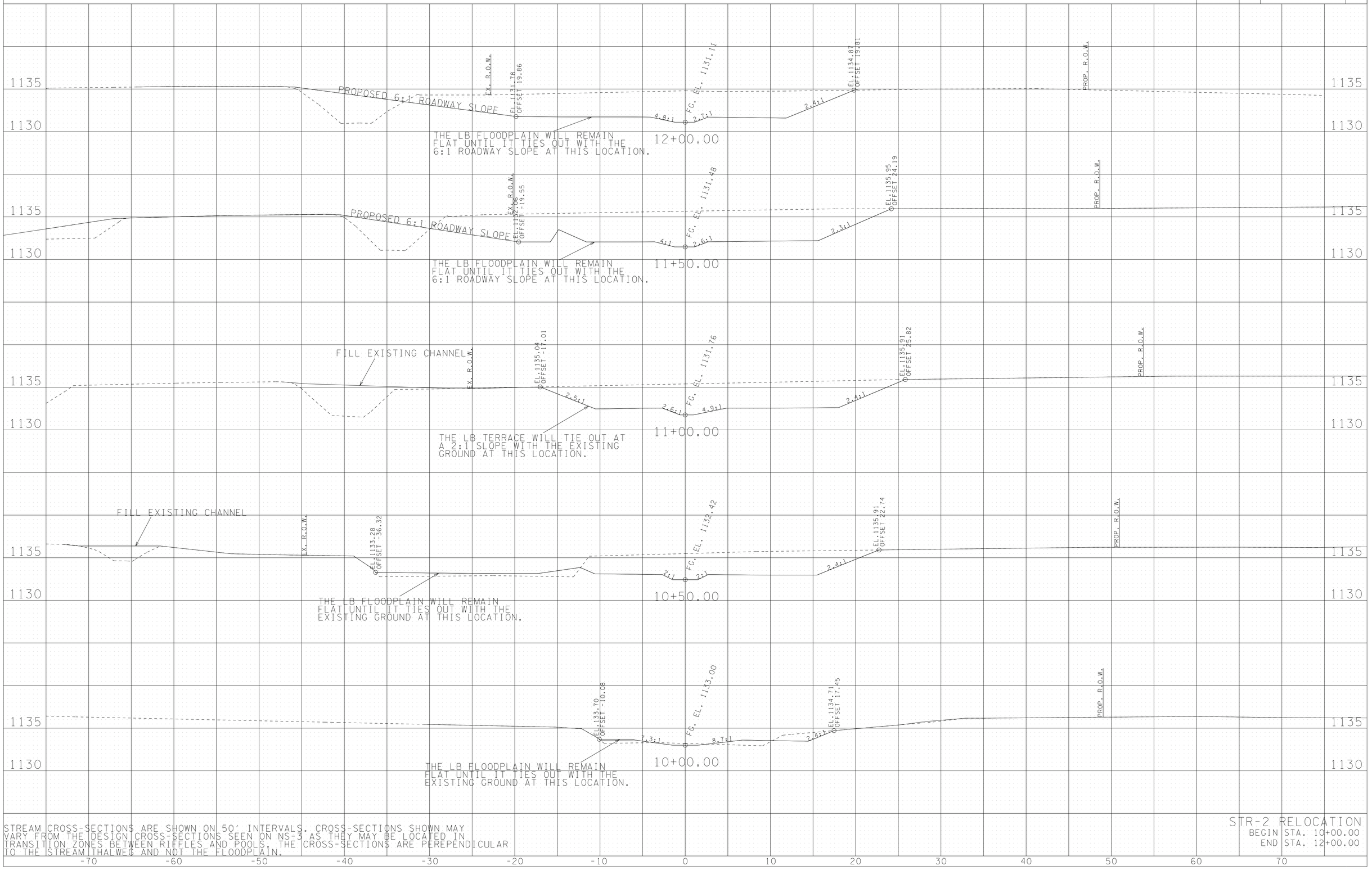
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL MITIGATION DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-7

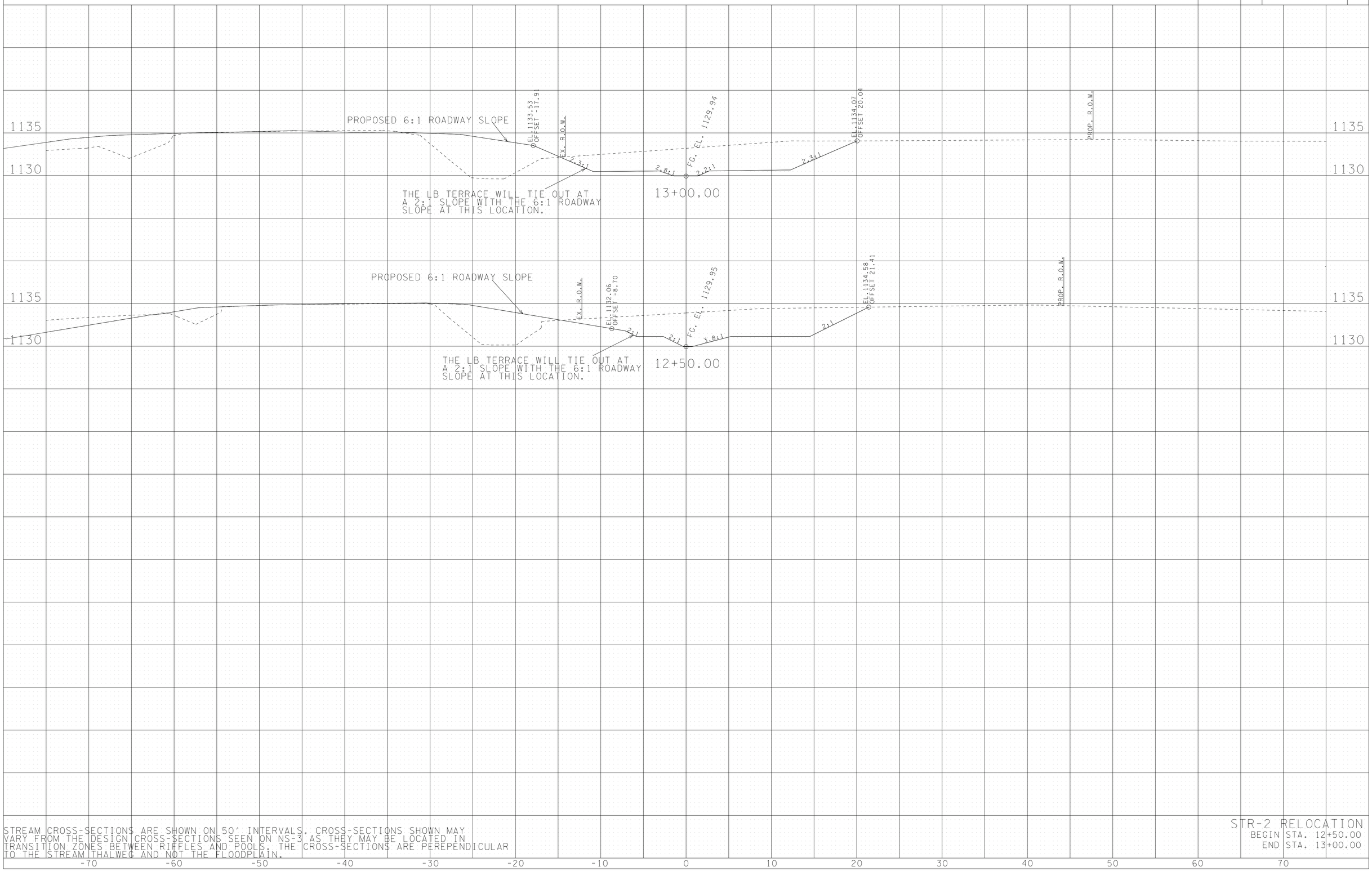


STREAM CROSS-SECTIONS ARE SHOWN ON 50' INTERVALS. CROSS-SECTIONS SHOWN MAY VARY FROM THE DESIGN CROSS-SECTIONS SEEN ON NS-3 AS THEY MAY BE LOCATED IN TRANSITION ZONES BETWEEN RIFFLES AND POOLS. THE CROSS-SECTIONS ARE PERPENDICULAR TO THE STREAM THALWEG AND NOT THE FLOODPLAIN.

STR-2 RELOCATION
BEGIN STA. 10+00.00
END STA. 12+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	NS-8



STREAM CROSS-SECTIONS ARE SHOWN ON 50' INTERVALS. CROSS-SECTIONS SHOWN MAY VARY FROM THE DESIGN CROSS-SECTIONS SEEN ON NS-3 AS THEY MAY BE LOCATED IN TRANSITION ZONES BETWEEN RIFFLES AND POOLS. THE CROSS-SECTIONS ARE PERPENDICULAR TO THE STREAM THALWEG AND NOT THE FLOODPLAIN.

STR-2 RELOCATION
BEGIN STA. 12+50.00
END STA. 13+00.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS & E	2026	BR-STP-33(126)	S-1

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
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.

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☐ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☐ YES ☐ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☐ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

- ☐ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 2.889 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 2.493 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: SR-33: Bridge over South Fork Sycamore Creek, LM 20.56
COUNTY: Claiborne
PIN: 124242.00

2.5. SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET

2.6. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) 10, 11, DRAINAGE MAP SHEET(S) 7, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☒ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☐ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
Jefferson stony fine sandy loam, sloping phase (cb-fsl)	A	13.8	0.05
Monongahela silt loam	C	42.9	0.37
Philo fine sandy loam (sl)	C	17.1	0.17
Tyler silt loam, 0 to 3 percent slopes	D	26.2	0.43

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	0.44	15	98	
PERVIOUS	2.449	85	79	
WEIGHTED CURVE NUMBER OR C-FACTOR =			81.89	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	0.75	26	98	
PERVIOUS	2.129	74	79	
WEIGHTED CURVE NUMBER OR C-FACTOR =			83.6	

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

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

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS NA)

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 CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

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

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

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☐ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
South Fork Sycamore Creek (STR-1)	Big Sycamore Creek	NO	NO	YES	YES
STR-2	South Fork Sycamore Creek (STR-1)	NO	NO	YES	YES
STR-3	South Fork Sycamore Creek (STR-1)	NO	NO	NO	NO
STR-4	South Fork Sycamore Creek (STR-1)	NO	NO	NO	YES
Big Sycamore Creek	Norris Reservoir	YES	NO	NO	YES

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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)

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☒ YES ☐ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) Not enough room.

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:ARAP

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.10. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☒ YES ☐ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☒YES ☐ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☐ YES ☒ NO ☐ N/A

4.2.6. A SEDIMENT BASIN, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☐ YES ☒ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☐ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☐ YES ☐ NO

IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 2-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

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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 9 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 9 (5.5.3.1.j).

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

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

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

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

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

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

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

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

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

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

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

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

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

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

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

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

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

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

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

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

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

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

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

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

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☒ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

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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): _____

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

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

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

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

10.6. SANITARY WASTE (5.5.3.7.b)

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

10.7. OTHER MATERIALS

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

☒ FERTILIZERS AND LIME

☒ PESTICIDES AND/OR HERBICIDES

☒ DIESEL AND GASOLINE

☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

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

☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

☒ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.

☒ WATER USED TO CONTROL DUST. (3.5.3.1.n)

☒ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.

☐ UNCONTAMINATED GROUNDWATER OR SPRING WATER.

☒ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.

☐ OTHER: _____

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

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

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

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

☐ YES ☒ NO

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

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

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.4.4. ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.5. SPILL NOTIFICATION (6.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE,

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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

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

STATE OF TENNESSEE
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STORMWATER POLLUTION PREVENTION PLAN

OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

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

14. **SITE WIDE/PRIMARY PERMITTEE CERTIFICATION** (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

Keven Brown
AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

KEVEN BROWN
PRINTED NAME

TEAM LEAD
TITLE

4-27-26
DATE

15. **SECONDARY PERMITTEE (OPERATOR) CERTIFICATION** (8.7.6.)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. **ENVIRONMENTAL PERMITS** (1.5.2.)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT **(TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE)**:

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP	YES	NRS25.099	10/6/2030
CORPS OF ENGINEERS (USACE)	YES	LRN-2025-00513	03/14/2031
TVA 26A	NO	NA	NA
TDEC CGP	YES	TBD	TBD
OTHER:	NO	NA	NA

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

STATE OF TENNESSEE
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STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS & E	2026	BR-STP-33(126)	S-8

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

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
OUT-1		104 + 50 LT	12	0.4	NA	NA	NA	NA	STR -1 Little Sycamore Creek	
OUT-2		104 + 40 RT	15	0.2	NA	NA	NA	NA	STR -1 Little Sycamore Creek	
OUT-3		102 + 90 LT	1.0	0.2	0.2	0.2	NA	NA	STR -1 Little Sycamore Creek	
OUT-4		102 + 30 RT	1.3	0.2	0.2	0.2	NA	NA	STR -1 Little Sycamore Creek	
OUT-5		102 + 60 RT	1.0	0.2	0.2	0.2	NA	NA	STR -1 Little Sycamore Creek	
OUT-6		103 + 30 LT	1.0	0.2	0.2	0.2	YES	NA	STR -1 Little Sycamore Creek	
OUT-7		99 + 05 RT	1.3	0.2	0.2	NA	NA	NA	STR- 2	

TENN.	YEAR	SHEET NO.
	2026	U1-1
FED. AID PROJ. NO.	BR-STP-33(126)	
STATE PROJ. NO.	13004-3216-94	

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITY OWNERS, MOVE PRIORS	U1 SERIES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

CLAIBORNE COUNTY

SR-33: BRIDGE OVER SOUTH FORK
SYCAMORE CREEK, LM 20.56 (IA)

PS&E

UTILITIES

STATE HIGHWAY NO. 33 F.A.H.A. NO. N/A

UTILITIES NOT IN ROADWAY CONTRACT

COMM:	BRIGHTSPEED 101 NORTH ROAN STREET JOHNSON CITY, TN 37601 JIM ARTERBURN 423-489-2033 (NO COST - MOVE PRIOR)
ELEC:	POWELL VALLEY ELECTRIC CO-OP 420 STRAIGHT CREEK ROAD PO BOX 1528 NEW TAZEWELL, TN 37825 BO GOODIN (423) 626-5204 (NO CONFLICT)

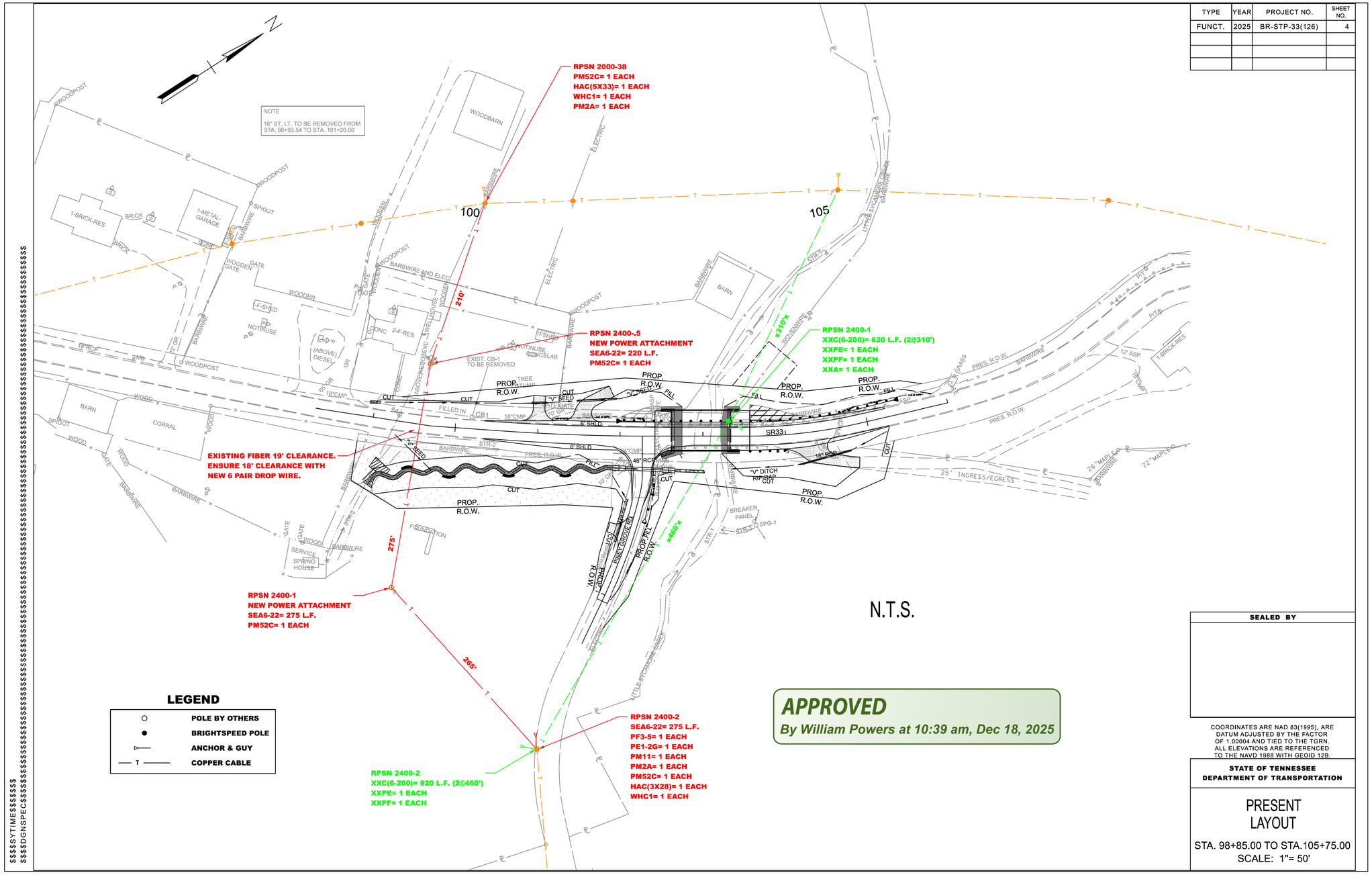
STATE OF TENNESSEE
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UTILITY INDEX,
UTILITY OWNERS

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	BR-STP-33(126)	U1-2

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	BR-STP-33(126)	4


NOTE
18" ST. LT. TO BE REMOVED FROM STA. 98+93.54 TO STA. 101+20.00
RPSN 2000-38
PM52C= 1 EACH
HAC(5X33)= 1 EACH
WHC1= 1 EACH
PM2A= 1 EACH
RPSN 2400-.5
NEW POWER ATTACHMENT
SEA6-22= 220 L.F.
PM52C= 1 EACH
RPSN 2400-1
XXC(6-200)= 620 L.F. (2@310')
XXPE= 1 EACH
XXPF= 1 EACH
XXA= 1 EACH
EXISTING FIBER 19' CLEARANCE.
ENSURE 18' CLEARANCE WITH
NEW 6 PAIR DROP WIRE.
RPSN 2400-1
NEW POWER ATTACHMENT
SEA6-22= 275 L.F.
PM52C= 1 EACH
RPSN 2400-2
SEA6-22= 275 L.F.
PF3-5= 1 EACH
PE1-2G= 1 EACH
PM11= 1 EACH
PM2A= 1 EACH
PM52C= 1 EACH
HAC(3X28)= 1 EACH
WHC1= 1 EACH
RPSN 2400-2
XXC(6-200)= 920 L.F. (2@460')
XXPE= 1 EACH
XXPF= 1 EACH
100
105
210'
310'
275'
460'
265'
SR33
PROP. R.O.W.
CUT
FILL
"V" SEED
"V" DITCH RIP-RAP
6' SHLD
18" RCP
18"CMP
48" RCP
1-BRICK-RES
1-METAL-GARAGE
2-F-RES
BARN
WOODBARN
CORRAL
SERVICE SPRING HOUSE
WELL HOUSE
F-SHED
NOTINUSE
CONCSLAB
EXIST. CB-1 TO BE REMOVED
CB1
PROP. CB-1
PROP. MH
PROP. PULL
PROP. 10' GRADE
PROP. FINE GROVE RD
ABOVEHEAD
UNDERGROUND
ELECTRIC
WOODPOST
BARBWIRE
WOODEN GATE
CONC
BRICK
SPIGOT
LOAD
HOME
TREE
STUMP
FOUNDATION
BREAKER PANEL
SPG-1
STR-1
STR-2
LITTLE SYCAMORE CREEK
PRES. R.O.W.
P/T/P
12' ASP
25' INGRESS/EGRESS
26"MAPLE
22"MAPLE
TOP OF BANK
OPEN GRASS
BARBWIRE AND ELEC
WOODEN GATE
WOODEN
WOODSHED
WOODEN
BARBWIRE
WOODEN GATE
WOODEN
WOODEN
WOODEN