THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

James E Henderson

Digitally signed by James E Henderson
Date: 2025.04.14 19:07:12 -05'00'

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THOMPSON ENGINEERING
150 NORTH MARTINWOOD ROAD, SUITE 406
KNOXVILLE, TN 37923

JAMES EDWARD HENDERSON P.E. NO. 128087

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

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC DESIGN DRAWINGS	1A3
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TYPICAL SECTIONS	2B1
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIROMENTAL NOTES	2E
TABULATED QUANTITIES AND DETAILS	2F
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
PRESENT LAYOUTS	4 – 6
PROPOSED LAYOUTS	4A – 5A
PROPOSED PROFILES	4B – 5B
SIDE ROAD PROFILE	7
DRAINAGE MAP	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	9-19
ROADWAY CROSS SECTIONS	20-34
SIDE ROAD CROSS SECTIONS	35-38
TRAFFIC CONTROL PLANS	T1-T14

YEAR	PROJECT NO.	SHEET NO.
2025	BR-NH-29(115)	ROADWAY-SIGN1
____	_____	_____
____	_____	_____
____	_____	_____

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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SEE SHEET NO. 1A FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

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

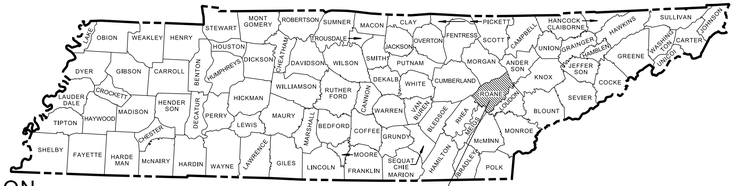
TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.	BR-NH-29(115)	
STATE PROJ. NO.	73008-3245-94	

ROANE COUNTY

SR-29 (US-27):
BRIDGE OVER SR-29/SR-61,
LM 12.10 (IA)

PS&E

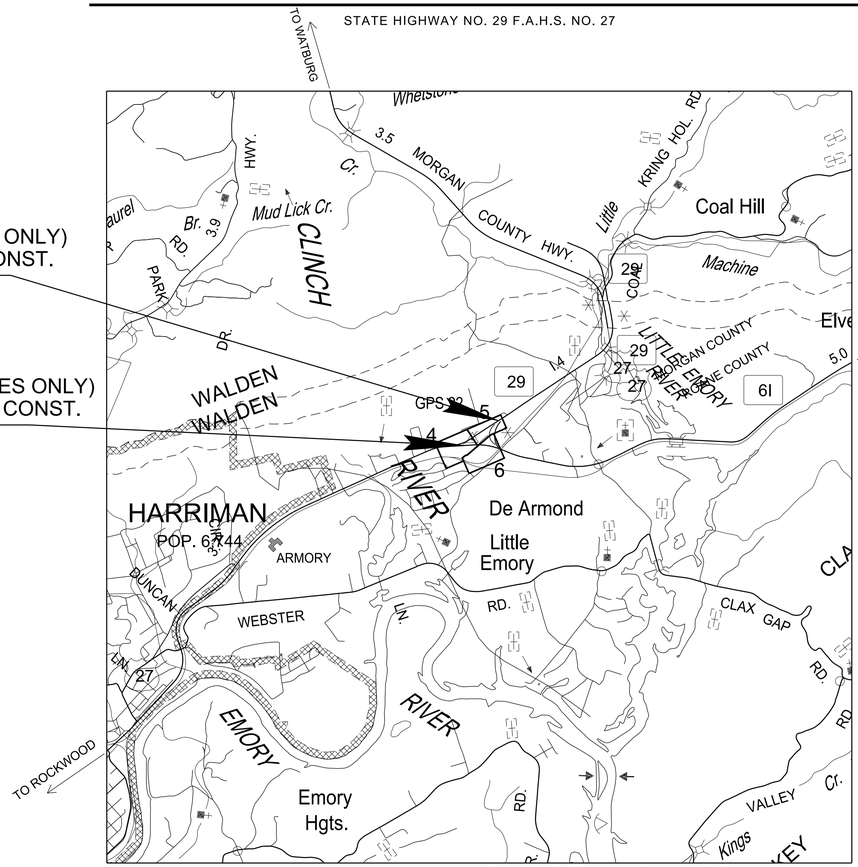
BRIDGE REPLACEMENT, GRADE, DRAIN, PAVE, SIGNS, GUARDRAIL & CONSTRUCTION



STATE HIGHWAY NO. 29 F.A.H.S. NO. 27

73008-2245-94 R.O.W. (UTILITIES ONLY)
END PROJECT NO. 73008-3245-94 BR-NH-29(115) CONST.
STA. 115+62.00 S.R. 29 (US-27)
N 599927.7057 E 2413827.6973

73008-2245-94 R.O.W. (UTILITIES ONLY)
BEGIN PROJECT NO. 73008-3245-94 BR-NH-29(115) CONST.
STA. 100+50.00 S.R. 29 (US-27)
N 599206.6219 E 2412505.7744



SCALE: 1"= 2640'

0 0.5 1 1.5 MILES

N

NO EXCLUSIONS

SR 29 TO BE CLOSED DURING CONSTRUCTION

PS&E

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128057
STATE OF TENNESSEE
04-14-2025

APPROVED:
WILL REID, DEPUTY COMMISIONER/ CHIEF ENGINEER
DATE:

APPROVED:
HOWARD H. ELEY, DEPUTY GOVERNOR & COMMISSIONER

SPECIAL NOTES

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

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

TDOT PROJECT MANAGER : JEREMY MEFFORD
DESIGNED BY : THOMPSON ENGINEERING
DESIGNER : EDWARD HENDERSON, P.E. CHECKED BY DREW DAVIS, P.E.
P.E. NO. 73008-1245-94 (DESIGN)
PIN NO. 124526.00

R.O.W. LENGTH	0.000 MILES
ROADWAY LENGTH	0.243 MILES
BRIDGE LENGTH	0.043 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.286 MILES

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

SURVEY 10-28-20	TRAFFIC DATA	
SURVEY UPDATED 9-28-2023	ADT (2025)	1,740
	ADT (2045)	2,260
	DHV (2045)	310
	D	70 - 30
	T (ADT)	5 %
	T (DHV)	3 %
	V	60 MPH

COORDINATES ARE NAD 83/2011, ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	1A
PS&E	2025	BR-NH-29(115)	1A

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC OPERATIONS DRAWINGS	1A3
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
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SIDE ROAD CROSS SECTIONS	35 - 38
TRAFFIC CONTROL PLANS	T1 – T14
SIGNATURE SHEET	STRUCTURE-SIGN1
BRIDGE PLANS	B-1
SIGNATURE SHEET	GEOTECHNICAL-SIGN1
GEOTECHNICAL PLANS	G-1
STORM WATER POLLUTION PREVENTION (SWPPP) PLANS	S-1

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

NOTE: NO UTILITIES IN THIS SET OF PLANS

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

DWG.	REV.	DESCRIPTION
RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

10-101.00 STANDARDS ROADWAY DRAWINGS

STANDARD 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-3C		DESIGN STANDARDS FOR ARTERIALS WITH INDEPENDENT ROADWAYS (4 AND 6 LANE)
RD11-TS-4	10-01-24	DESIGN STANDARDS FOR ARTERIAL AND FREEWAY RAMPS (1, 2 AND 3 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-SA-1	01-09-24	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION

10-102.00 PIPE CULVERTS AND ENDWALLS

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

10-104.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

S-F-1	03-01-23	HIGH VISIBILITY FENCE

10-106.00 SAFETY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	01-09-24	SAFETY PLAN FOR BRIDGE PIERS IN DEPRESSED MEDIAN
S-PL-4A	01-09-24	SAFETY PLAN TO FOR BRIDGE PIERS/ ABUTMENTS OUTSIDE THE SHOULDER
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-GR31-1	06-15-21	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	01-30-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL

10-107.00 EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3D	03-01-23	ENHANCED SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-4A	07-30-24	ENHANCED SILT FENCE CHECK (V-DITCH)
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-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION

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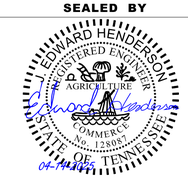

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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STANDARD TRAFFIC DESIGN DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	1A3
PS&E	2025	BR-NH-29(115)	1A3

DWG.	REV.	DESCRIPTION
10-200.00 SIGN		
T-S-9	06-10-14	STANDARD LAYOUT - GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-11-17	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	06-12-20	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-11-17	SIGN DETAILS
T-S-23A	07-11-17	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-23C	07-02-15	BREAKWAY POST SIGN SUPPORTS
10-204.00 DESIGN - TRAFFIC CONTROL		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-9	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9A	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9B	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-04-21	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS

SEALED BY

J. EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
TRAFFIC
DESIGN
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	1B
PIH	2024	BR-NH-29(115)	1B
PS&E	2025	BR-NH-29(115)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STATION / LOCATION
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	Asbestos Containing Material (ACM) surveys were conducted on Bridge No. 73SR0290009, SR-29 NB over SR-61, LM 12.1. No ACM was detected. No special accommodations for demolition and waste disposal are anticipated for these structures and the material can be deposited in a C&D landfill. Prior to the demolition or rehabilitation of any structure (bridge or building), the contractor is required to submit the National Emission Standards for Hazardous Air Pollutants standard 10-day notice of demolition to the TDEC Division of Air Pollution Control (per TDOT Standard Specifications for Road and Bridge Construction (January 1, 2021) Sections 107.08 D and 202.03).	SR 29 Bridge
EDEC002	ENVIRONMENTAL DIVISION, ECOLOGY	In accordance with the Programmatic Consultation between USFWS, FHWA, and TDOT Addressing Cliff Swallow and Barn Swallow Nesting Sites, 09/16/2020, cliff swallow and barn swallow nests, eggs, or birds (young and adults) will not be disturbed between April 15 and July 31. From August 1 to April 14, nests can be removed or destroyed, and measures implemented to prevent future nest building at the site.	SR 29 Bridge

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DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	2A
PIH	2024	BR-NH-29(115)	2
PS&E	2025	BR-NH-29(115)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 73008-3245-94
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)(2)(3)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	9024
(3)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	1895
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1724
	203-06	WATER	M.G.	51
(1)	209-05	SEDIMENT REMOVAL	C.Y.	56
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	694
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	2654
(1)	209-08.07	ROCK CHECK DAM	EACH	7
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1
(4)(5)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	4614
(1)(6)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	2180
(4)	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	529
(8)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	436
(4)(7)(9)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	12
(4)(7)(10)(11)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	40
(4)(7)(12)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	5
	411-01.07	ACS MIX(PG64-22) GRADING E SHOULDER	TON	146
(4)(7)(13)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	575
	415-01.01	COLD PLANING OF BITUMINOUS PAVEMENT	C.Y.	170
(7)(14)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	90
(7)(14)(15)	611-07.31	18" ENDWALL (SIDEDRAIN)	EACH	4
(16)	703-02	CEMENT CONCRETE DITCH PAVING	C.Y.	12
(4)(17)	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	325
(4)	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2
(4)	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	2
(4)	706-01	GUARDRAIL REMOVED	L.F.	150
(1)(18)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	390
(1)(19)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	771
(1)(20)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	46
(7)	712-01	TRAFFIC CONTROL	LS	1
(7)(10)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
(7)	712-06	SIGNS (CONSTRUCTION)	S.F.	614
(7)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	168
(7)	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	2500
(7)	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	16
(7)	712-09.05	REMOVABLE PAVEMENT MARKING (ARROW)	EACH	2
(7)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
(7)(10)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1
(21)	713-16.20	SIGNS (W4-1)	EACH	1
	716-01.22	SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO-DIR) (1 COLOR)	EACH	19
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	11
(7)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1
(22)	716-12.02	ENHANCED FLATLINE THERMO PVMT MARKNG (6" LINE)	L.M.	1
	717-01	MOBILIZATION	LS	1
(23)	740-07.04	GEOGRID REINFORCEMENT TYPE 2	S.Y.	2861
(1)(24)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	623
(25)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	924
(1)(26)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	104
(1)(26)(27)	801-02	SEEDING (WITHOUT MULCH)	UNIT	88
(1)(28)	801-03	WATER (SEEDING & SODDING)	M.G.	25
(1)(29)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	9834

FOOTNOTES

(1) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT

(2) INCLUDES 43 C.Y. FOR TEMPORARY CONSTRUCTION EXITS. SEE SHEET 2F FOR MORE INFORMATION

(3) SEE GRADING SPECIAL NOTES ON SHEET 2D

(4) SEE SHEET 2F FOR TABULATION

(5) INCLUDES 479 TONS FOR TRAFFIC CONTROL

(6) 9 TONS TO BE USED FOR CULVERT PROTECTION TYPE 1 AND 2171 TONS TO BE USED FOR PAVEMENT BUILDUP AT BRIDGE ENDS

(7) SEE SHEET T2 FOR TABULATION

(8) INCLUDES 89 TONS FOR TRAFFIC CONTROL

(9) INCLUDES 1 TON FOR TRAFFIC CONTROL
SEE SHEET T2 FOR TABULATED QUANTITIES

(10) ITEM TO BE USED AS DIRECTED BY THE ENGINEER

(11) INCLUDES 4 TONS FOR TRAFFIC CONTROL

(12) INCLUDES 1 TON FOR TRAFFIC CONTROL

(13) INCLUDES 52 TONS FOR TRAFFIC CONTROL

(14) TEMPORARY PIPES TO BE REMOVED AFTER REMOVAL OF RAMPS. PRICE OF REMOVAL TO BE INCLUDED IN THE UNIT PRICE FOR THE PIPE

(15) SEE SHEET T4 FOR SIDE DRAIN TABULATION

(16) INCLUDES 10 C.Y. FOR ENERGY DISSIPATOR ON SHEET 2B1

(17) TOTALS ARE ROUNDED TO THE NEAREST 12.5' INCREMENT

(18) TO BE USED AROUND THE WETLAND

(19) INCLUDES 300 TONS FOR TEMPORARY CONSTRUCTION EXITS AND 471 TONS FOR RIP-RAP AT BRIDGE ENDS

(20) INCLUDES 46 TONS FOR EPSC

(21) SEE SHEET 5A FOR LOCATION

(22) CONTRACTOR SHALL USE EXTRUDED OR RIBBON METHOD FOR APPLICATION

(23) TO BE USED FOR PAVEMENT BUILDUP AT BRIDGE ENDS

(24) 515 S.Y. TO BE USED FOR TEMPORARY CONSTRUCTION EXITS, 108 S.Y. TO BE USED FOR CULVERT PROTECTION TYPE 1

(25) 118 S.Y. TO BE USED FOR DRAINAGE FLUMES, AND 806 S.Y. TO BE USED FOR PAVEMENT BUILDUP AT BRIDGE ENDS

(26) 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

(27) INCLUDES 6 UNITS FOR SPECIAL DITCHES. SEE SHEET 10 FOR TABULATION

(28) INCLUDES 25 M.G. WATER FOR EROSION PREVENTION AND SEDIMENT CONTROL

(29) INCLUDES 9783 S.Y. FOR ECP AND 51 S.Y. AROUND RIP-RAP AT BRIDGE ENDS

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	2B
PIH	2024	BR-NH-29(115)	2B
PS&E	2025	BR-NH-29(115)	2B
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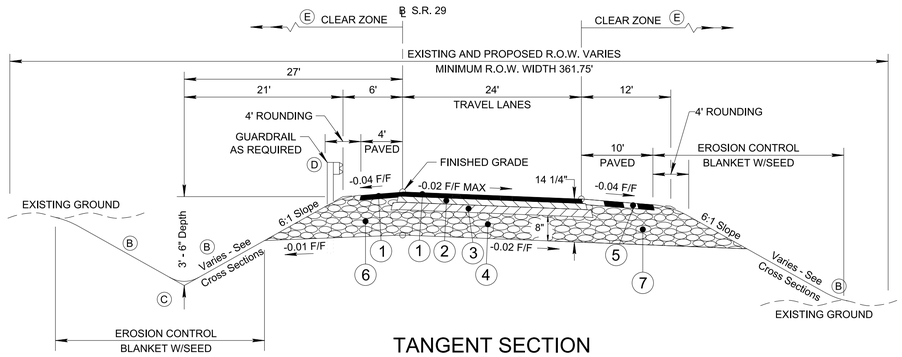


TANGENT SECTION (S.R. 29)

(BASED ON STD. DWG. RD11-TS-3C)
**FROM STA. 106+95.57 TO STA. 108+14.00 (BRIDGE)
FROM STA. 108+14.00 TO STA. 109+44.43

**SEE BRIDGE SHEETS FOR DETAILS
(INCLUDES 24' OF CONCRETE PAVEMENT AT BEGIN AND END OF BRIDGE)

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

Ⓑ SEE STANDARD DRAWINGS RD11-S-11 AND SPECIAL DITCH DETAIL ON THIS SHEET 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.

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

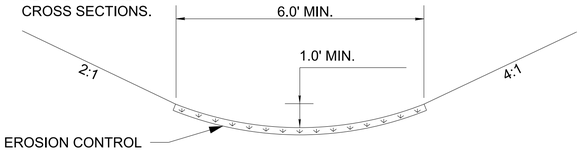
Ⓓ SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

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

PAVEMENT AND SHOULDER TRANSITIONS

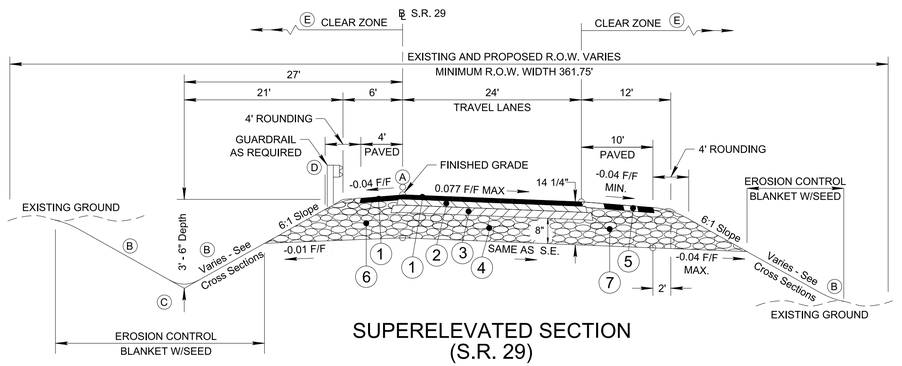
ROAD NAME	STATION	SIDE	TYPE	OFFSET	WIDTH
S.R. 29	100+50.00 TO 101+00.00	LT	PVMT.	0.03' - 0.00'	0.03' - 0.00'
		RT	PVMT.	24.11' - 24.00'	24.14' - 24.00'
		LT	SHLD.	0.03' - 6.00'	0.00' - 6.00'
S.R. 29	100+50.00 TO 100+77.14	RT	SHLD.	34.17' - 36.00'	10.06' - 12.00'
S.R. 29	111+50.00 TO 112+00.00	RT	PVMT.	24.00' - 24.71'	24.00' - 24.71'
		LT	SHLD.	6.00' - 4.25'	6.00' - 4.25'
		RT	SHLD.	36.00' - 31.76'	12.00' - 7.05'

FOR DETAILS NOT SHOWN SEE STD. DWG. RD11-S-11A AND CROSS SECTIONS.



SPECIAL DITCH DETAIL

FROM STA. 105+54.00 TO STA. 105+84.00 (LT) (S.R. 29)
FROM STA. 107+34.00 TO STA. 107+74.00 (LT) (S.R. 29)
FROM STA. 107+74.00 TO STA. 111+25.00 (LT) (S.R. 29)
FROM STA. 201+00.00 TO STA. 206+00.00 (LT/RT) (S.R. 61)

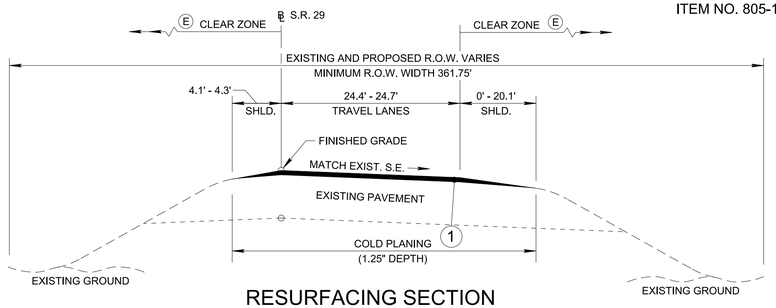


SUPERELEVATED SECTION (S.R. 29)

(BASED ON STD. DWG. RD11-TS-3C)

FROM STA. 100+50.00 TO STA. 105+84.00
**FROM STA. 105+84.00 TO STA. 106+95.57 (BRIDGE)
FROM STA. 109+44.43 TO STA. 112+00.00

**SEE BRIDGE SHEETS FOR DETAILS
(INCLUDES 24' OF CONCRETE PAVEMENT AT BEGIN AND END OF BRIDGE)



RESURFACING SECTION (S.R. 29)

(BASED ON STD. DWG. RD11-TS-3C)

FROM STA. 112+00.00 TO STA. 115+62.00

PROPOSED PAVEMENT SCHEDULE FOR S.R. 29

1 ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1-1/4"+ THICK APPROX. 132.5 LBS./SQ. YD.
- 411-01.10 ASPHALT CONCRETE MIX (PG64-22) GRADING "D"
- 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.30-0.35 GAL./SQ. YD.)
- 402-02 BITUMINOUS AGGREGATE FOR COVER MATERIAL (PC) (RATE 8-12 LB./SQ.S.Y.)
- * 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)

2 BITUMINOUS PLANT MIX BASE (HOT MIX) @ 2"+ THICK APPROX. 226 LBS./SQ. YD.
- 307-01.08 ASPHALT CONCRETE MIX (PG64-22) GR "B-M2"
- * 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)

3 BITUMINOUS PLANT MIX BASE (HOT MIX) @ 3"+ THICK APPROX. 345 LBS./SQ. YD.
- 307-01.01 ASPHALT CONCRETE MIX (PG64-22) GRADING "A"
- 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.30-0.35 GAL./SQ. YD.)
- 402-02 BITUMINOUS AGGREGATE FOR COVER MATERIAL (PC) (RATE 8-12 LB./SQ.S.Y.)

4 MINERAL AGGREGATE BASE GRADE "D" @ 8"+ THICK (ROADWAY) AND FULL DEPTH (SHOULDERS)
- 303-01 MINERAL AGGREGATE BASE GRADING "D"

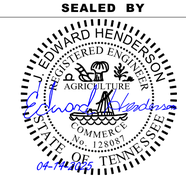
5 ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1-1/2"+ THICK APPROX. 159 LBS./SQ. YD.
- 411-01.07 ACS MIX (PG64-22) GRADING "E" SHOULDER
- 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.30-0.35 GAL./SQ. YD.)
- 402-02 BITUMINOUS AGGREGATE FOR COVER MATERIAL (PC) (RATE 8-12 LB./SQ.S.Y.)

6 MINERAL AGGREGATE BASE GRADE "D" @ 13"+ THICK (SHOULDER) AND FULL DEPTH (SHOULDERS)
- 303-01 MINERAL AGGREGATE BASE GRADING "D"

7 MINERAL AGGREGATE BASE GRADE "D" @ 12-3/4"+ THICK (SHOULDER)
- 303-01 MINERAL AGGREGATE BASE GRADING "D"

* SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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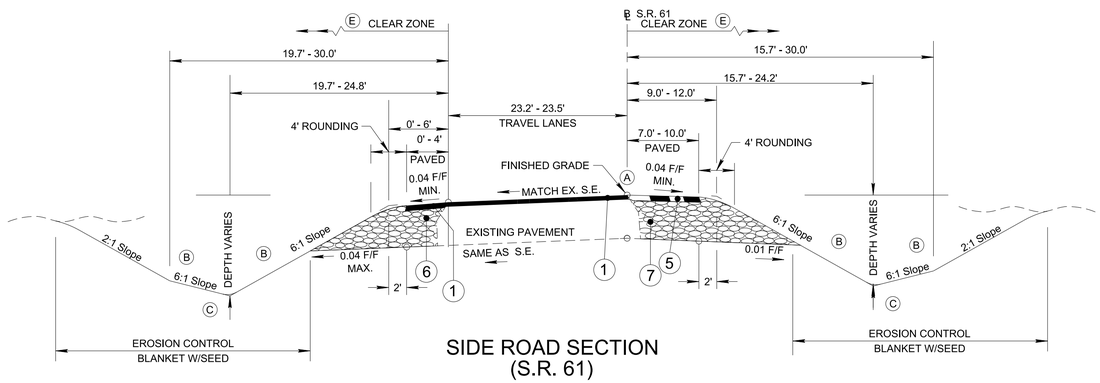
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	2B1
PIH	2024	BR-NH-29(115)	2B1
PS&E	2025	BR-NH-29(115)	2B1

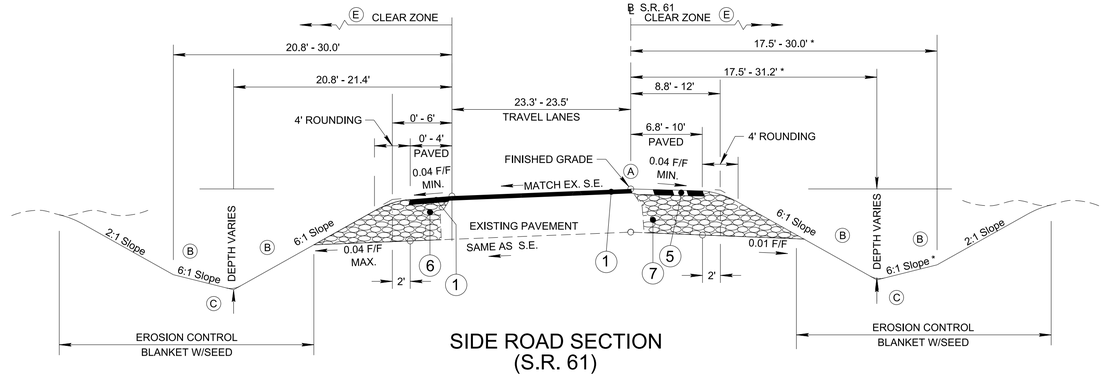
PAVEMENT AND SHOULDER TRANSITIONS

ROAD NAME	STATION	SIDE	TYPE	OFFSET	WIDTH
S.R. 61	201+00.00 TO 201+50.00	LT	SHLD.	23.27' - 29.50'	0.00'-6.00'
		RT	SHLD.	9.04' - 12.00'	9.04' - 12.00'
S.R. 61	205+50.00 TO 206+00.00	LT	SHLD.	23.32' - 29.50'	0.00' - 6.00'
		RT	SHLD.	9.04' - 12.00'	9.04' - 12.00'



SIDE ROAD SECTION (S.R. 61)

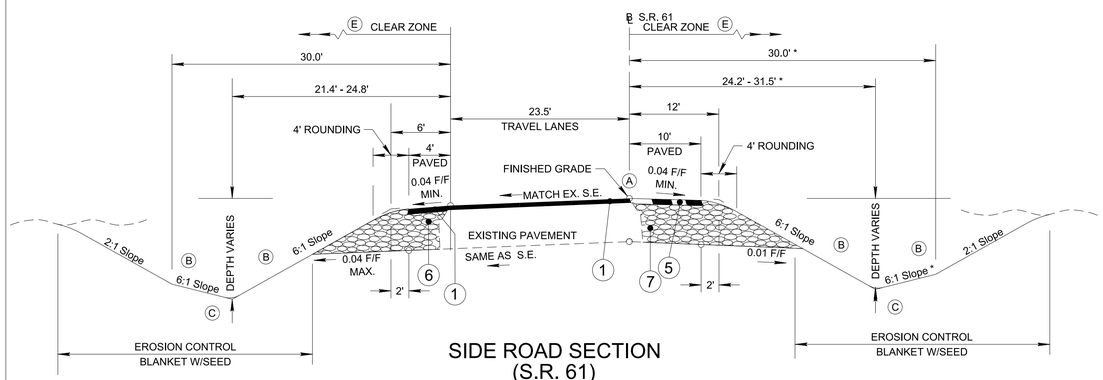
(BASED ON STD. DWG. RD11-TS-3C)
FROM STA. 201+00.00 TO STA. 201+50.00



SIDE ROAD SECTION (S.R. 61)

(BASED ON STD. DWG. RD11-TS-3C)
FROM STA. 205+50.00 TO STA. 206+00.00

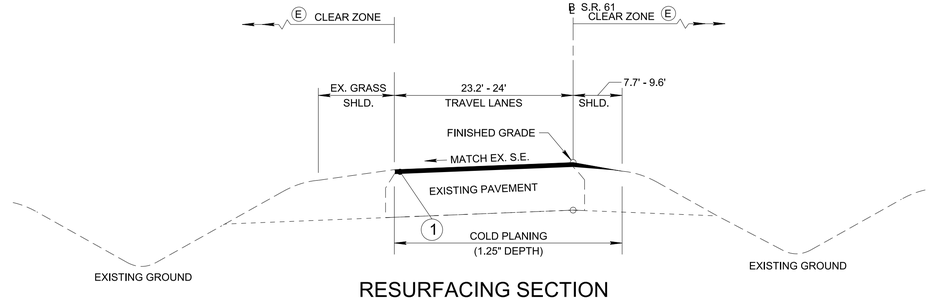
* WHERE DITCH FLOWLINE EXTENDS PAST 30', THE 6:1 BACKSLOPE SHALL BE ELIMINATED



SIDE ROAD SECTION (S.R. 61)

(BASED ON STD. DWG. RD11-TS-3C)
FROM STA. 201+50.00 TO STA. 205+50.00

* WHERE DITCH FLOWLINE EXTENDS PAST 30', THE 6:1 BACKSLOPE SHALL BE ELIMINATED



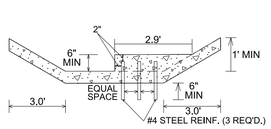
RESURFACING SECTION (S.R. 61)

FROM STA. 198+00.00 TO STA. 201+00.00

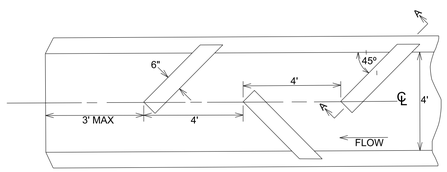
LOCATION: ENERGY DISSIPATORS SHALL BE PLACED AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

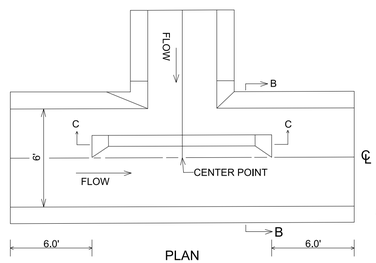
COST: ALL COST REQUIRED FOR CONSTRUCTION OF ENERGY DISSIPATORS SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 703-02.

REINFORCEMENT: ALL STEEL REINFORCEMENT SHALL HAVE 2" CLEARANCE FROM EXPOSED SURFACES.

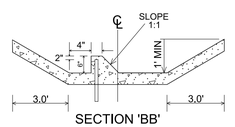


SECTION 'AA'

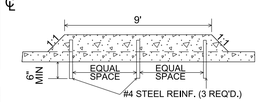




PLAN



SECTION 'BB'



SECTION 'CC'

ENERGY DISSIPATOR DETAIL

STA. 105+84.00
OFF 51.73' LT

STA. 107+34.00
OFF 16.94' LT

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	2C
PS&E	2025	BR-NH-29(115)	2C

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

GUARDRAIL

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

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

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

DRAINAGE

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

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

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

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

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

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

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

ROAD CLOSURE

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

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

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

FINAL PAVEMENT MARKING

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

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(16) THE PAVEMENT MARKING ON THE DETOUR 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.716-05.20, L.M.

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.

PAVING

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

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

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

SIGNING

(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 CONSTRUCTION OFFICE.

(7) ALL SIGNS MARKED “TO BE REMOVED” ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

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

(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.

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.

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 128085
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	2C1
PS&E	2025	BR-NH-29(115)	2C1
_____	___	_____	___
_____	___	_____	___

GENERAL NOTES (CONT'D)

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(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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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	2D
PS&E	2025	BR-NH-29(115)	2D
_____	___	_____	___
_____	___	_____	___

SPECIAL NOTES

GRADING

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

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

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

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

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

DEMOLITION

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

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04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	2E
PIH	2024	BR-NH-29(115)	2E
PS&E	2025	BR-NH-29(115)	2E

ENVIRONMENTAL NOTES

SUBSECTION 1 – ENVIRONMENTAL GENERAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

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

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

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

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

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

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

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

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

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

SPECIES

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

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

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

PERMITS, PLANS & RECORDS

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

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

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

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

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

SUPPORT ACTIVITIES

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

ENVIRONMENTAL

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

SUBSECTION 2 – ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

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

ECOLOGY

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

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

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

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, PAVEMENT, COLD PLANING, AND RESURFACING FOR S.R. 29 AND S.R. 61 TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS, PLANS, AND PROFILE SHEETS OR AS DIRECTED BY THE T.D.O.T. MANAGER.

CONSTRUCTION OF ALL DITCHES, DRAINAGE STRUCTURES, GUARDRAIL, AND APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL DEVICES, SEEDING, PAVEMENT MARKING, INSTALLATION OF TRAFFIC CONTROL DEVICES, AND OTHER DESIGN FEATURES INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. MANAGER.

CONSTRUCTION OF A THREE SPAN CONCRETE BEAM BRIDGE OVER S.R. 61 AS INDICATED ON THE PLANS OR AS DIRECTED BY T.D.O.T. MANAGER.

INSTALLATION OF GUARDRAIL.

CONSTRUCTION OF TEMPORARY ON AND OFF RAMPS DURING THE CLOSURE OF SR 29 TO LINES AND GRADES AS INDICATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE T.D.O.T MANAGER.

REMOVAL OF THE TEMPORARY ON AND OFF RAMPS INCLUDING DITCHES, PIPES, ENDWALLS, SIGNS AND EPSC MEASURES ASSOCIATED WITH THE RAMPS. AREA IS TO BE RESHAPED, SEEDED AND EROSION CONTROL BLANKET APPLIED UPON COMPLETION.

SEALED BY

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04-11-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	2F
PIH	2024	BR-NH-29(115)	2F
PS&E	2025	BR-NH-29(115)	2F

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE: SR 29	288	7187	245
SIDE ROAD: SR 61	6824	355	5801
* TEMPORARY RAMPS	145	310	124
TEMPORARY CONSTRUCTION EXITS	43	0	37
TOPSOIL (EMB.)	1435		
TOPSOIL (EXC.)	289		

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	9024	7852	9024	7300	6205

BALANCE SUMMARY

SHRINK = 15 % SWELL = 15 %

EMB.		EXC.
7852	VS.	-6205
AVAILABLE	=	1647
BORROW MATERIAL	=	1895

* THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 312 CY OF EXCESS MATERIAL DUE TO EXCAVATING THE TEMPORARY RAMPS AFTER CONSTRUCTION IS COMPLETE.

SPECIAL DITCHES

ROADWAY	STATION		SIDE	CONFIGURATION			SEEDING W/O MULCH 801-02 (UNIT)	EROSION CONTROL BLANKET (TYPE II) 805-12.02 (S.Y.)	CEMENT CONCRETE DITCH PAVING 703-02 (C.Y.)
	FROM	TO		FORE (H/V)	BOTTOM WIDTH (FT.)	BACK (H/V)			
SR 29	107+74	111+25	LT	4:1	"V"	2:1	1	850	
SR 61	206+00	201+00	LT/RT	6:1	"V"	6:1	5	4174	
SR 29	105+54	105+84	LT	2:1	4	2:1			5
SR 29	107+34	107+74	LT	2:1	4	2:1			5
TOTALS							6	5024	10

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL			TERMINAL ANCHORS
		LT	RT	FROM	TO	THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 (EACH)	W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	GUARDRAIL REMOVED 706-01 (L.F.)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)
4A	SR 29	X		103+06.50	105+51.59	1	187.50		1
4A	SR 29	X		105+30.87	106+05.88			75.05	
4A	SR 29		X	105+59.72	106+34.12			74.76	
4A	SR 29		X	104+09.00	106+03.17	1	137.50		1
TOTALS						2	* 325	150	2

* TOTALS ARE ROUNDED TO THE NEAREST 12.5' INCREMENT.

PAVEMENT QUANTITIES

LOCATION (ROADWAY)		TYPE - GRADE - PAY ITEM (TON)							
		MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)		PRIME COAT		TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)	
		D	A	B-M2				D	E
		303-01	307-01.01	307-01.08	402-01	402-02	403-01	411-01.10	411-01.07
SR 29		2955.0	529.0	346.5	6.0	19.0	2.0	368.7	101.6
SR 61		1180.0			5.0	17.0	1.5	154.2	44.2
TOTALS		4135	529	347	11.0	36	3.5	523	146

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES AND DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	3
PIH	2024	BR-NH-29(115)	3
PS&E	2025	BR-NH-29(115)	3

RIGHT-OF-WAY

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

(2) 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.

UTILITY

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

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

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

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

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

UTILITY OWNERS

**SURVEY STATED NO UTILITIES IN AREA OF PROJECT SURVEY.

*THE REGION 1 UTILITIES DEPARTMENT HAS COMPLETED THE UTILITY COORDINATION PROCESS AND CONCLUDED THAT NO UTILITY CONFLICTS ARE ANTICIPATED BASED ON THE SCOPE OF WORK.

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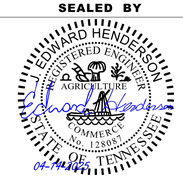
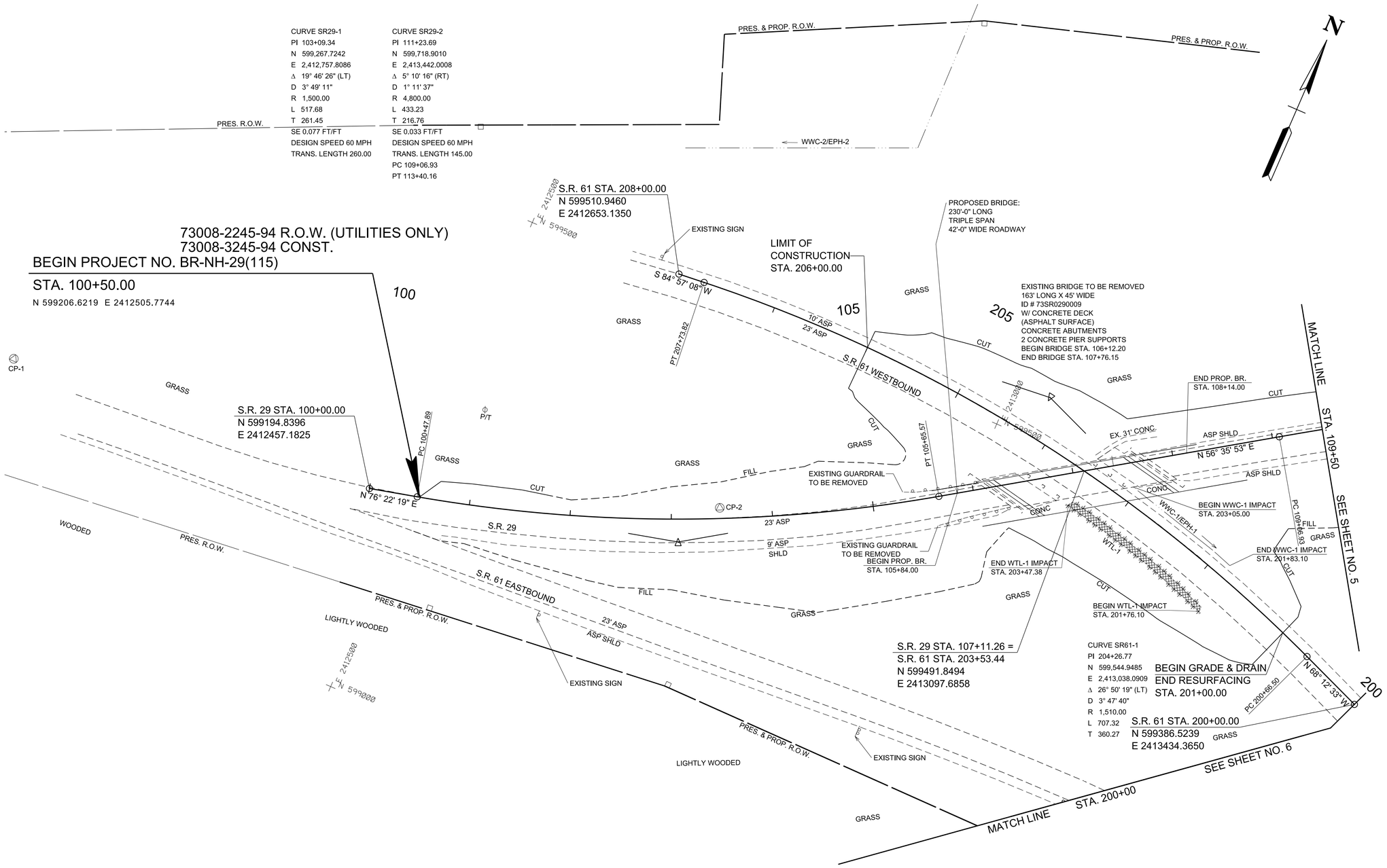


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	4
PIH	2024	BR-NH-29(115)	4
PS&E	2025	BR-NH-29(115)	4



S.R. 29 CONTROL POINTS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	DESCRIPTION
CP-1	599172.5181	2412083.9353	802.068	OFF CHAIN	OFF CHAIN	73-029-16
CP-2	599315.1003	2412782.1401	811.026	103+48.25	10.55' (LT)	73-029-17

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.021 AC.
	VOLUME OF PERMANENT IMPACT = 52.24 CU YD

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AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.100+50 TO STA.109+50
SCALE: 1"=50'

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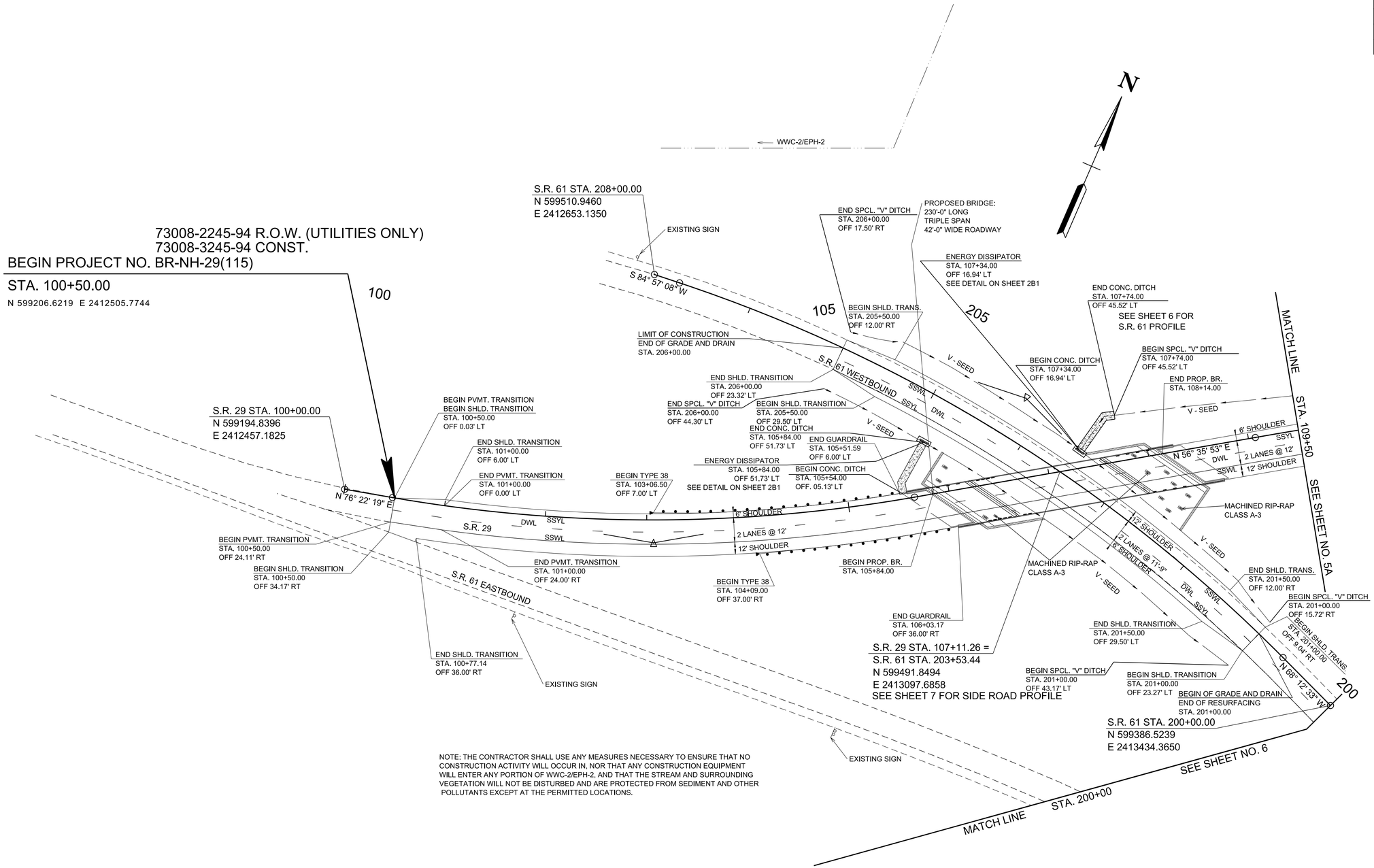
P:\2022\Projects\1110\22-1110-0006 TDOT E2368 PIN 124526.00 SR over SR 61 Dgn\Working\Civil\Plans Production\004.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	4A
PIH	2024	BR-NH-29(115)	4A
PS&E	2025	BR-NH-29(115)	4A



NOTE: THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WWC-2/EPH-2, AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 100+50 TO STA. 109+50
SCALE: 1"= 50'

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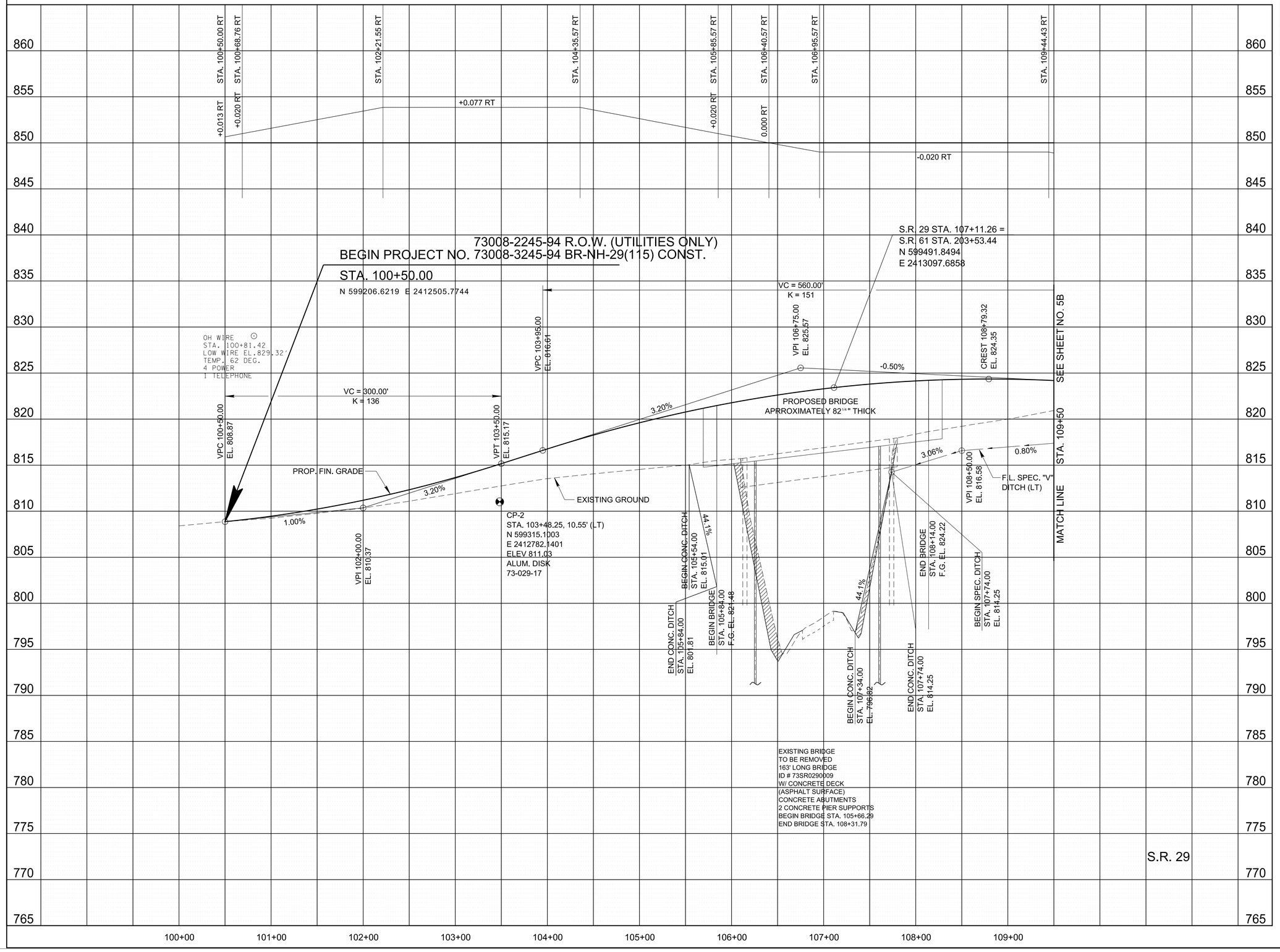
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	4B
PIH	2024	BR-NH-29(115)	4B
PS&E	2025	BR-NH-29(115)	4B



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PROFESSION OF AGRICULTURE
COMMERCE
No. 128057
STATE OF TENNESSEE
04-11-24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

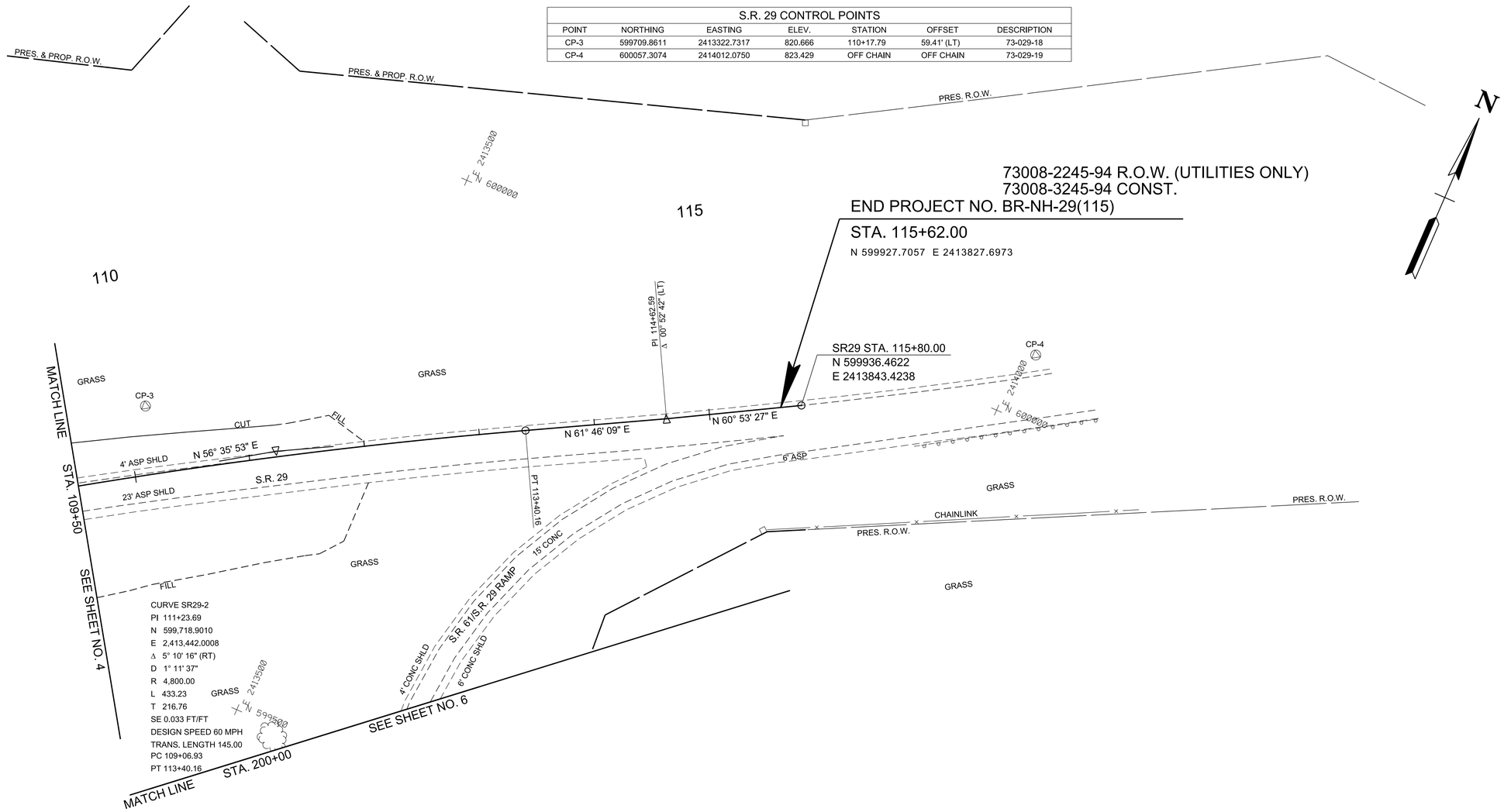
STA.100+50 TO STA.109+50

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	5
PIH	2024	BR-NH-29(115)	5
PS&E	2025	BR-NH-29(115)	5

S.R. 29 CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	DESCRIPTION
CP-3	599709.8611	2413322.7317	820.666	110+17.79	59.41' (LT)	73-029-18
CP-4	600057.3074	2414012.0750	823.429	OFF CHAIN	OFF CHAIN	73-029-19



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STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.109+50 TO STA.115+62
SCALE: 1"=50'

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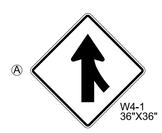
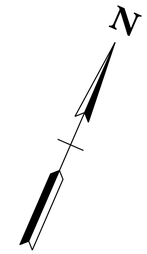
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	5A
PIH	2024	BR-NH-29(115)	5A
PS&E	2025	BR-NH-29(115)	5A





73008-2245-94 R.O.W. (UTILITIES ONLY)
73008-3245-94 CONST.

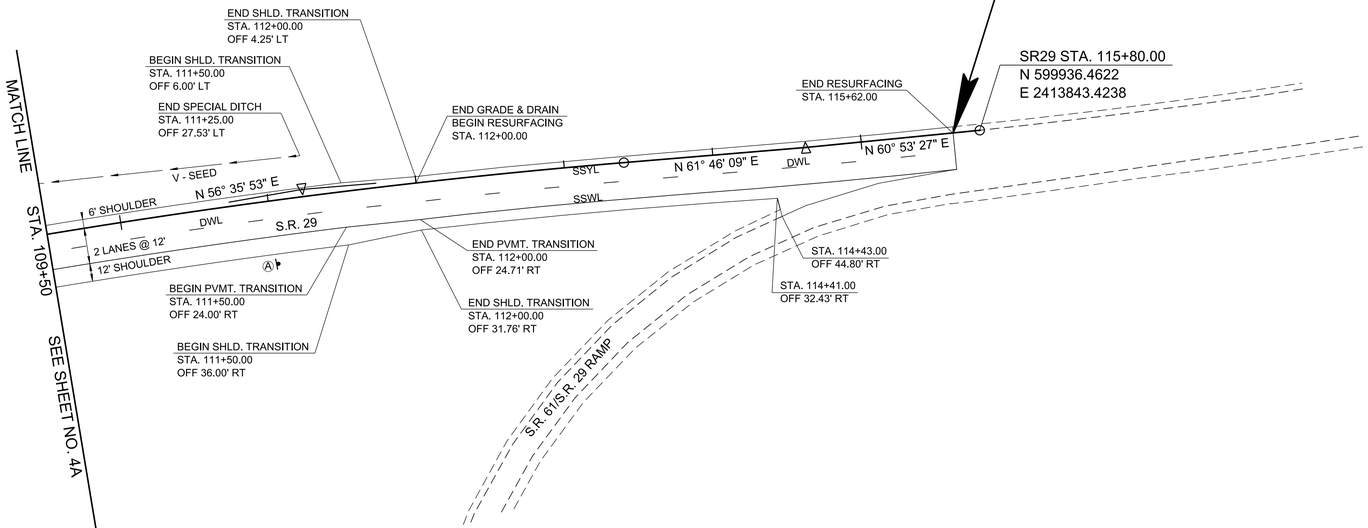
END PROJECT NO. BR-NH-29(115)

STA. 115+62.00

N 599927.7057 E 2413827.6973

115

110



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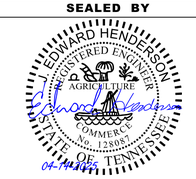

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 109+50 TO STA. 115+62
SCALE: 1"= 50'

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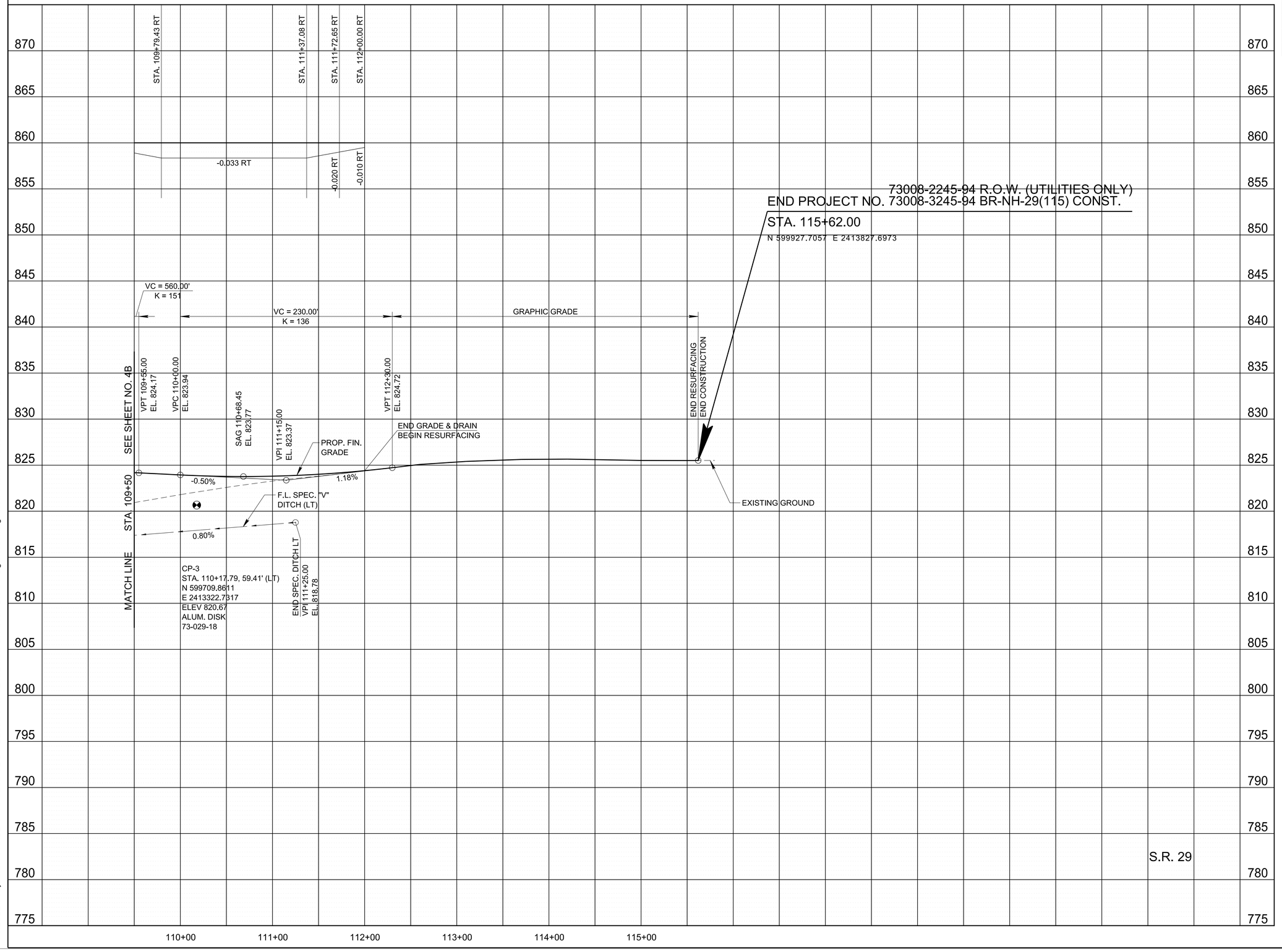
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	5B
PIH	2024	BR-NH-29(115)	5B
PS&E	2025	BR-NH-29(115)	5B



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AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.109+50 TO STA.115+62

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

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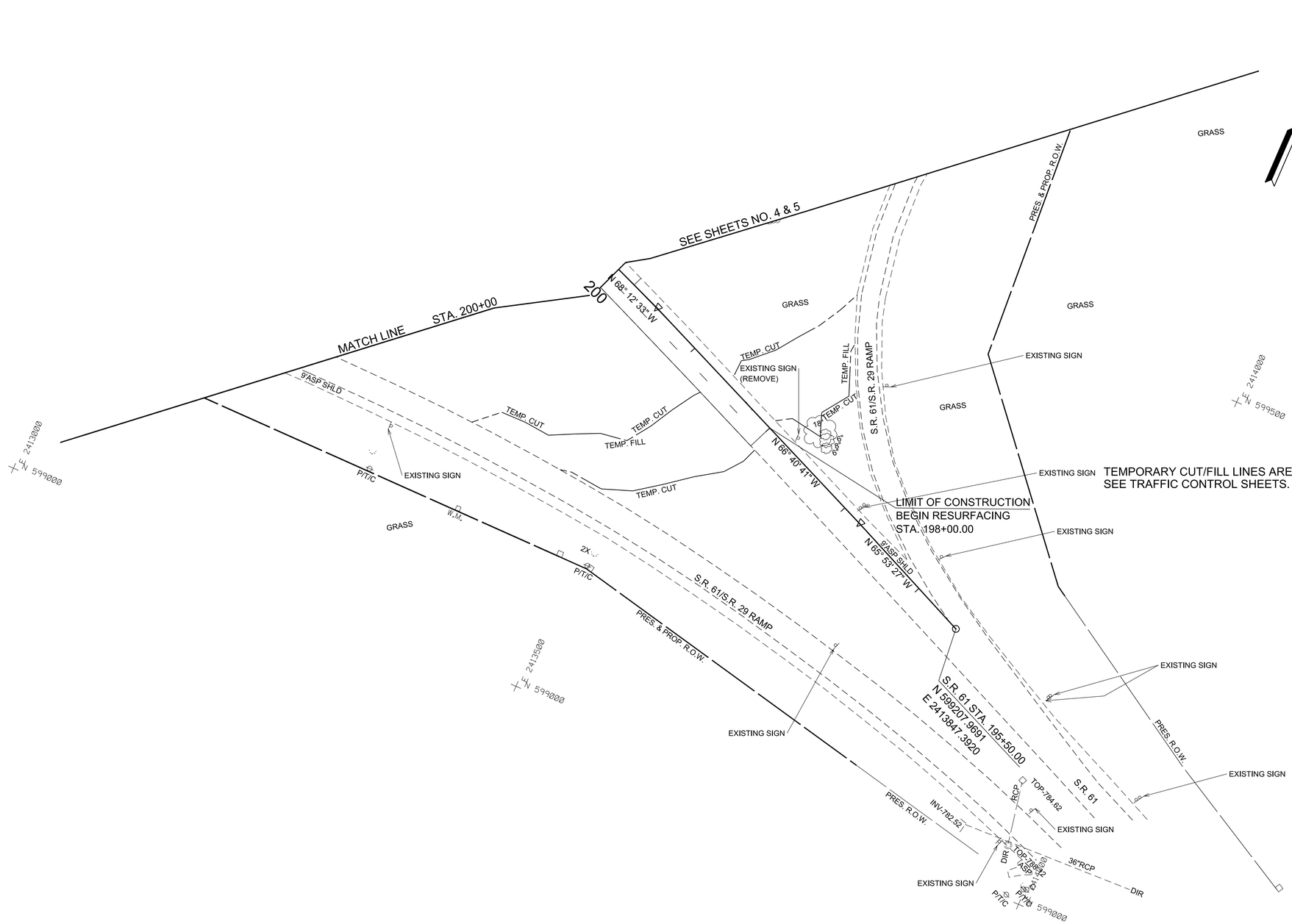
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	6
PIH	2024	BR-NH-29(115)	6
PS&E	2025	BR-NH-29(115)	6



TEMPORARY CUT/FILL LINES ARE FOR TEMPORARY RAMPS SEE TRAFFIC CONTROL SHEETS.

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STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.198+00 TO STA. 200+00
SCALE: 1"=50'

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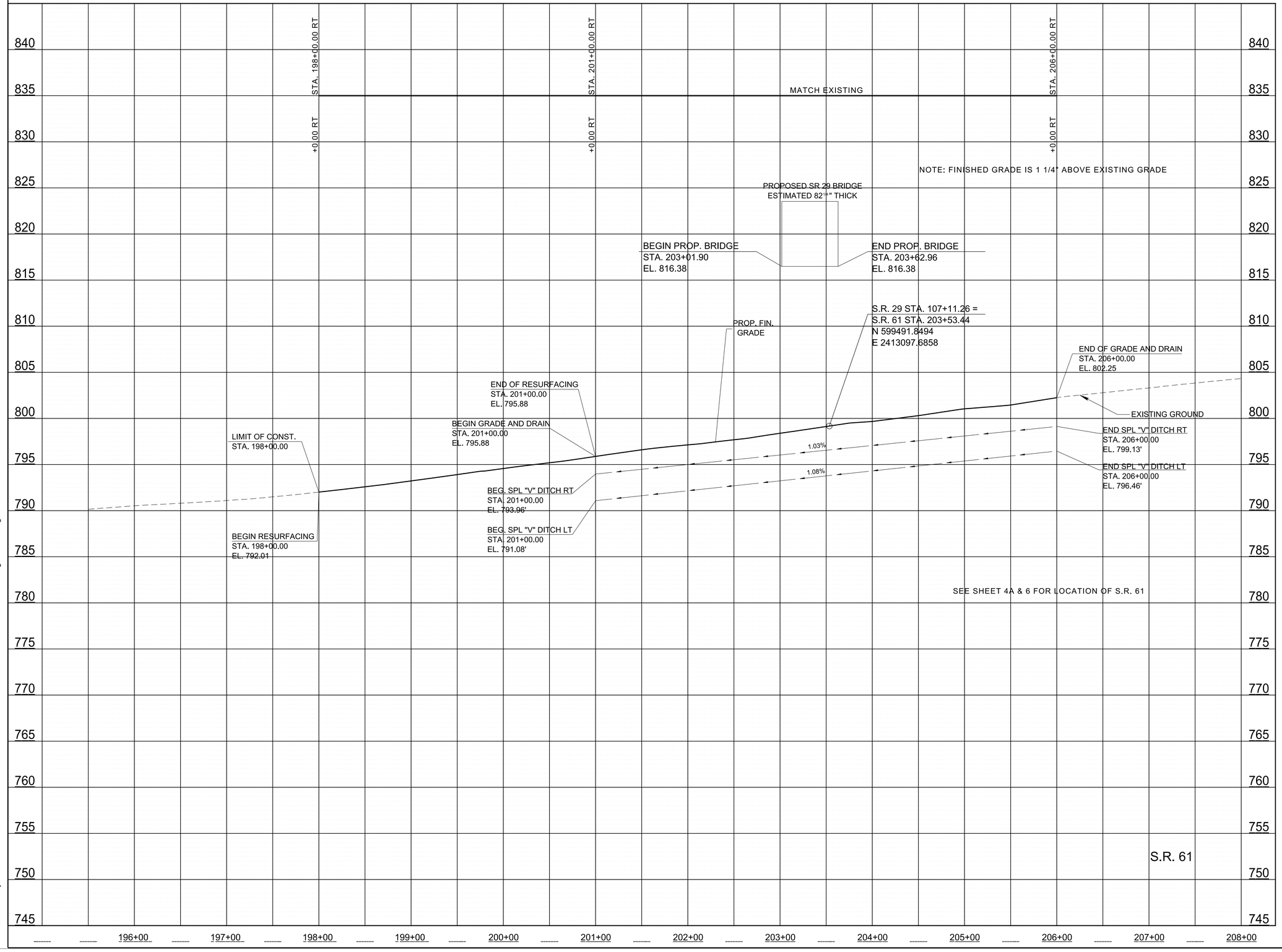
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	7
PIH	2024	BR-NH-29(115)	7
PS&E	2025	BR-NH-29(115)	7
———	———	———	———



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STATE OF TENNESSEE
04-11-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD PROFILE

STA.195+50 TO STA.208+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	
PIH	2024	BR-NH-29(115)	8
PS&E	2025	BR-NH-29(115)	8

73008-2245-94 R.O.W. (UTILITIES ONLY)
BEGIN PROJECT NO. 73008-3245-94 BR-NH-29(115) CONST.

STA. 100+50.00

N 599206.6219 E 2412505.7744

S.R. 61 STA. 208+00.00
N 599510.9460
E 2412653.1350

EXISTING BRIDGE
163' LONG BRIDGE
ID # 73SR0290009
W/ CONCRETE DECK
(ASPHALT SURFACE)
CONCRETE ABUTMENTS
2 CONCRETE PIER SUPPORTS
SKEW 45°00'00"
BEGIN BRIDGE STA. 106+12.20
END BRIDGE STA. 107+76.15

S.R. 29 STA. 100+00.00
N 599194.8396
E 2412457.1825

END PROP. BR.
STA. 108+14.00

BEGIN PROP. BR.
STA. 105+84.00

73008-2245-94 R.O.W. (UTILITIES ONLY)
END PROJECT NO. 73008-3245-94 BR-NH-29(115) CONST.

STA. 115+62.00

N 599927.7057 E 2413827.6973

SR29 STA. 115+80.00
N 599936.4622
E 2413843.4238

S.R. 29 STA. 107+11.26 =
S.R. 61 STA. 203+53.44
N 599491.8494
E 2413097.6858

OFF RAMP 300+00.00
N 599206.9510
E 2143339.0270

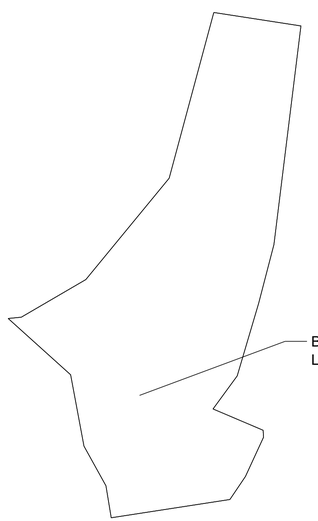
ON RAMP 402+06.13
N 599512.7140
E 2413636.5410

ON RAMP 400+00.00
N 599319.4494
E 2413593.3214

OFF RAMP 302+70.01
N 599298.9850
E 2413580.6575

S.R. 61 STA. 195+50.00
N 599207.9691
E 2413847.3920

DRAINAGE BASIN



NOT TO SCALE

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AGRICULTURE
COMMERCE
No. 128087
STATE OF TENNESSEE
04-14-25

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 100+50 TO STA. 115+62

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	9
PIH	2024	BR-NH-29(115)	9
PS&E	2025	BR-NH-29(115)	9

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

SUBSECTION 3 – EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

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

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

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

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

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

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

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

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

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

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

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

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

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

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

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DEPARTMENT OF TRANSPORTATION

EPSC SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	11
PIH	2024	BR-NH-29(115)	10
PS&E	2025	BR-NH-29(115)	10

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	STAGE I QUANTITY	STAGE II QUANTITY	STAGE III QUANTITY	TOTAL QUANTITY 73008-3245-94
(1)(3)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	43			43
(1)	209-05	SEDIMENT REMOVAL	C.Y.	28	28		56
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	694			694
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	2654			2654
(1)	209-08.07	ROCK CHECK DAM	EACH	4	3		7
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1			1
(1)(2)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON		9		9
(1)(6)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	390			390
(1)(3)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	300			300
(1)(2)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON		46		46
(1)(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	515	108		623
(1)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	52	52		104
(1)(5)(7)	801-02	SEEDING (WITHOUT MULCH)	UNIT			88	88
(1)	801-03	WATER (SEEDING & SODDING)	M.G.	8	8	9	25
(1)(8)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.			9783	9783

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
HVF HVF	HIGH VISIBILITY FENCE	S-F-1
SF SF SF SF	SILT FENCE	EC-STR-3B
SFB 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
	EROSION CONTROL BLANKET	EC-STR-34
	ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A

FOOTNOTES

(1) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT

(2) TO BE USED FOR CULVERT PROTECTION TYPE 1

(3) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS

(4) 515 SY TO BE USED FOR TEMPORARY CONSTRUCTION EXITS AND 108 SY TO BE USED FOR CULVERT PROTECTION TYPE 1

(5) INCLUDES 6 UNITS FOR SPECIAL DITCHES

(6) TO BE USED AROUND THE WETLAND

(7) 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

(8) INCLUDES 5024 S.Y. FOR SPECIAL DITCHES

WWC-1 BEGIN IMPACT STA. 201+83.10
END IMPACT STA. 202+02.43

WTL-1 BEGIN IMPACT STA. 201+76.10
END IMPACT STA. 203+47.38

NOTE: THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WWC-2/EPH-2, AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128087
STATE OF TENNESSEE
04-14-25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

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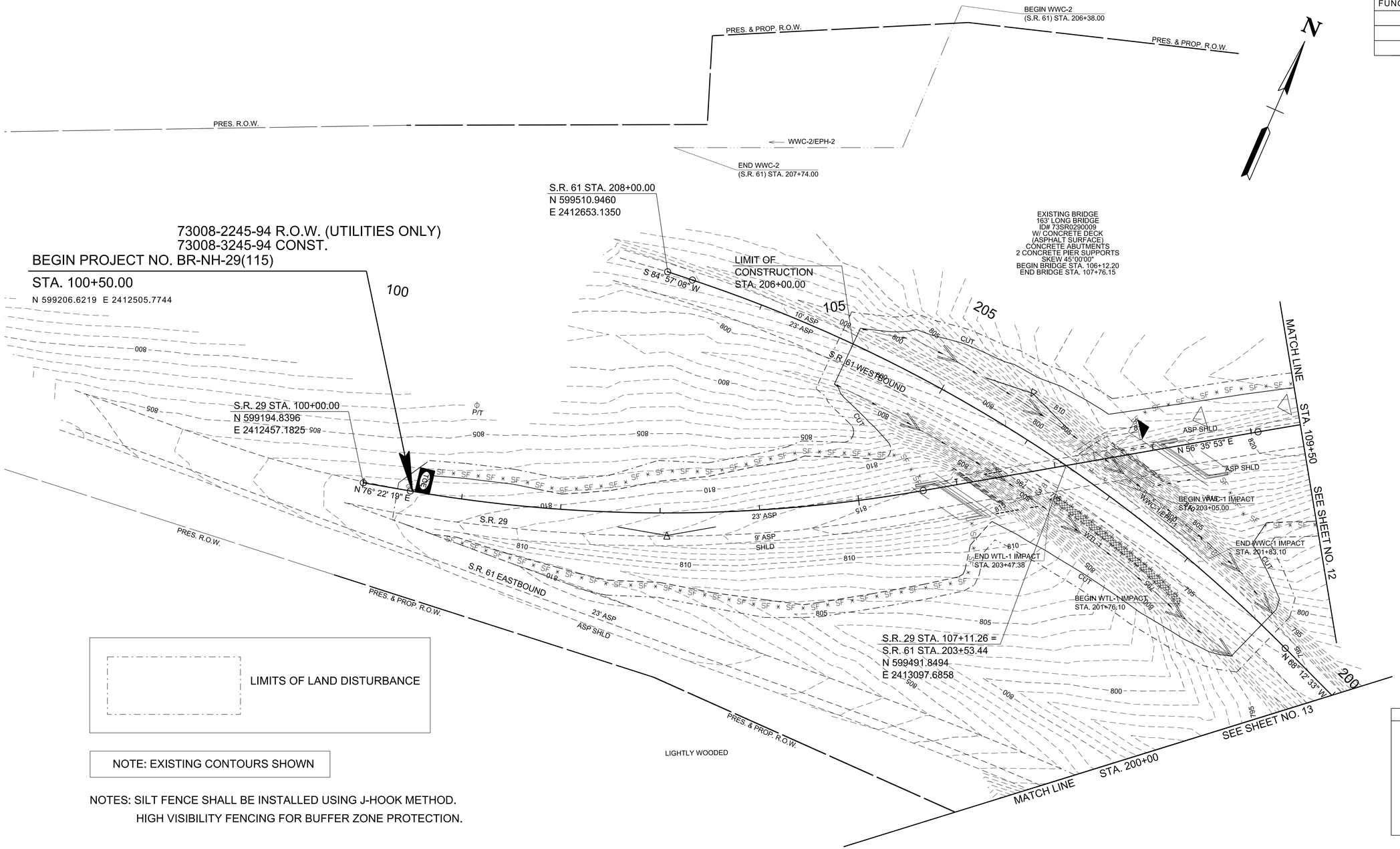
P:\2022\Projects\1110\22-1110-0006 TDOT E2368 PIN 124526.00 SR over SR 61 Dgn\Working\Civil\Plans Production\010.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	12
PIH	2024	BR-NH-29(115)	11
PS&E	2025	BR-NH-29(115)	11



LIMITS OF LAND DISTURBANCE

NOTE: EXISTING CONTOURS SHOWN

NOTES: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.
HIGH VISIBILITY FENCING FOR BUFFER ZONE PROTECTION.

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EDWARD HENDERSON
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 128087
STATE OF TENNESSEE
04-14-2025

COORDINATES ARE NAD 83/2011, ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.100+50 TO STA.109+50

SCALE: 1"=50'

STAGE I
CLEARING AND GRUBBING

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	13
PIH	2024	BR-NH-29(115)	12
PS&E	2025	BR-NH-29(115)	12

LIMITS OF LAND DISTURBANCE

NOTE: EXISTING CONTOURS SHOWN

NOTE: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.

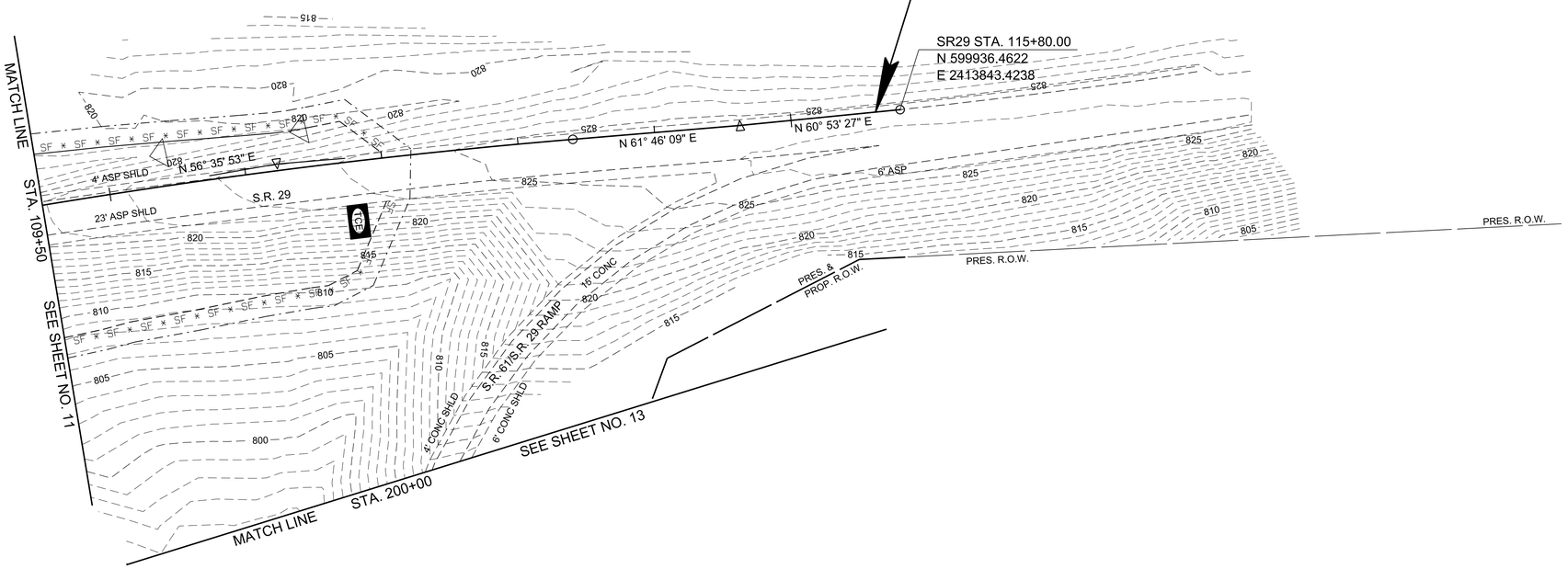
73008-2245-94 R.O.W. (UTILITIES ONLY)
73008-3245-94 CONST.

END PROJECT NO. BR-NH-29(115)

STA. 115+62.00

N 599927.7057 E 2413827.6973

SR29 STA. 115+80.00
N 599936.4622
E 2413843.4238



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EDWARD HENDERSON
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CUMMERA
NO. 125085
STATE OF TENNESSEE
04-11-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.109+50 TO STA.115+62

SCALE: 1"=50'

STAGE I
CLEARING AND GRUBBING

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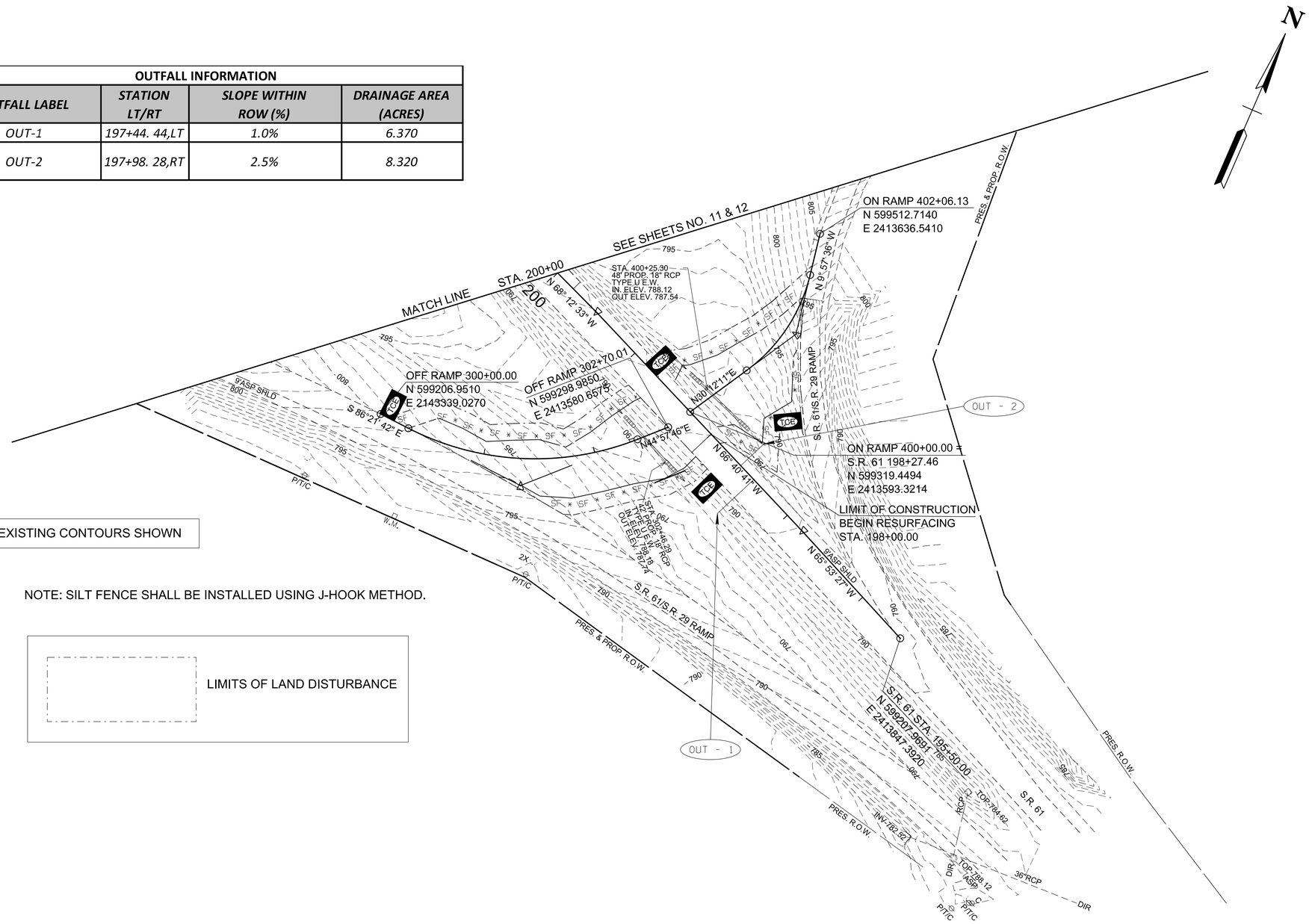
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	14
PIH	2024	BR-NH-29(115)	13
PS&E	2025	BR-NH-29(115)	13

OUTFALL INFORMATION			
OUTFALL LABEL	*STATION LT/RT*	*SLOPE WITHIN ROW (%)*	*DRAINAGE AREA (ACRES)*
OUT-1	*197+44. 44,LT*	*1.0%*	*6.370*
OUT-2	*197+98. 28,RT*	*2.5%*	*8.320*



NOTE: EXISTING CONTOURS SHOWN

NOTE: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.

LIMITS OF LAND DISTURBANCE

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EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 195+50 TO STA. 200+00

SCALE: 1"=50'

STAGE I
CLEARING AND GRUBBING

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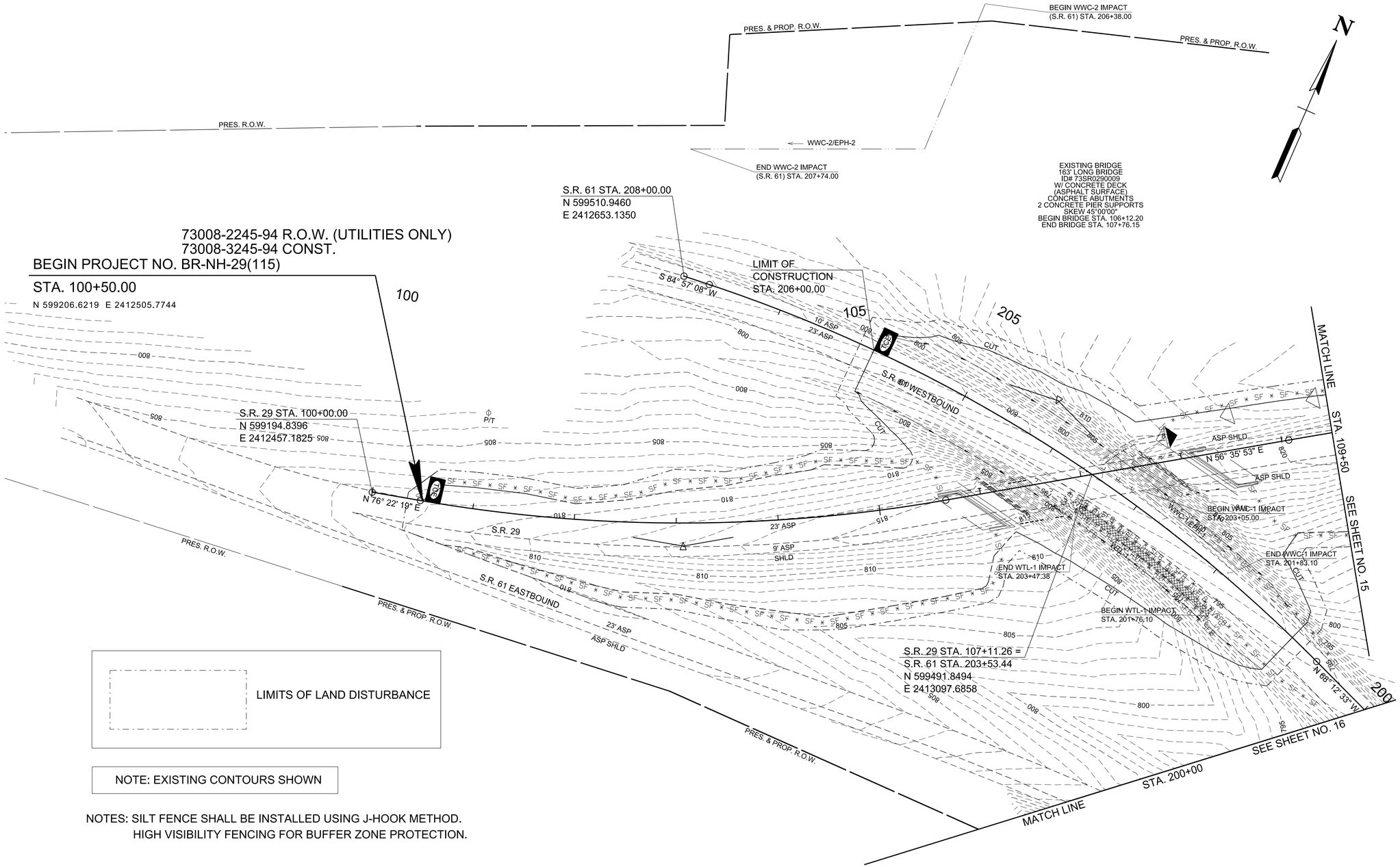
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	15
PIH	2024	BR-NH-29(115)	14
PS&E	2025	BR-NH-29(115)	14



LIMITS OF LAND DISTURBANCE

NOTE: EXISTING CONTOURS SHOWN

NOTES: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.
HIGH VISIBILITY FENCING FOR BUFFER ZONE PROTECTION.

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.100+50 TO STA.109+50

SCALE: 1"=50'

STAGE II
INTERMEDIATE GRADING

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	16
PIH	2024	BR-NH-29(115)	15
PS&E	2025	BR-NH-29(115)	15

LIMITS OF LAND DISTURBANCE

NOTE: PROPOSED CONTOURS SHOWN

NOTE: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.

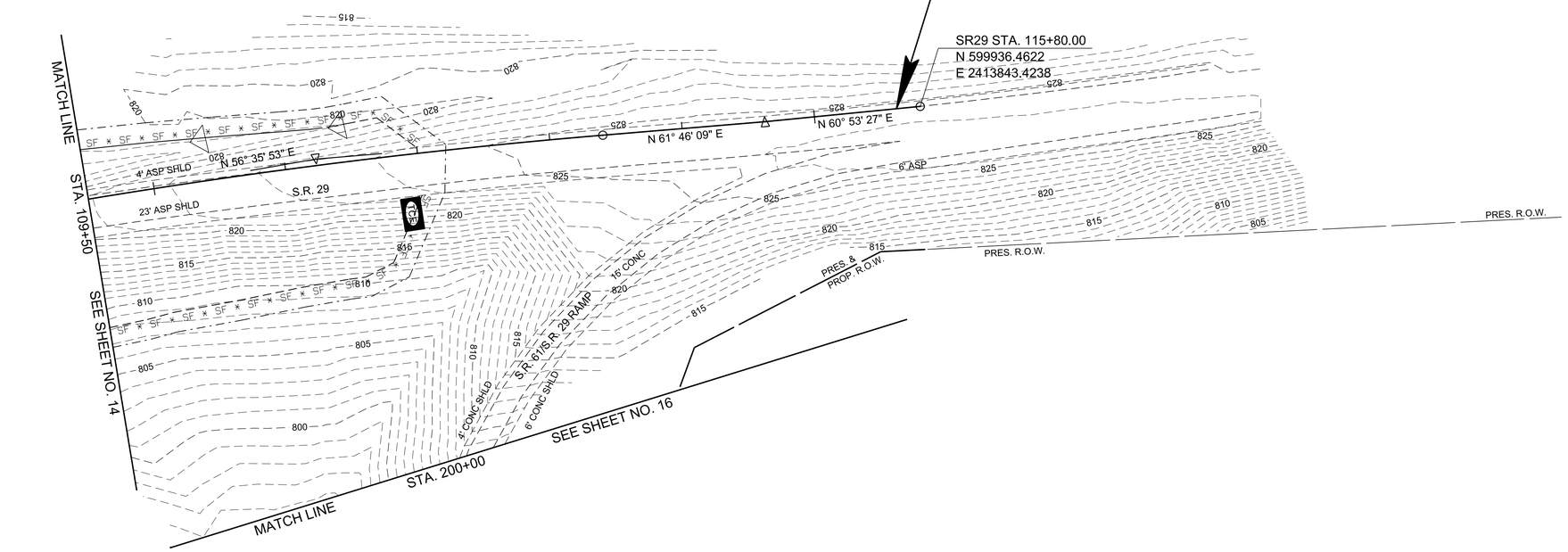
73008-2245-94 R.O.W. (UTILITIES ONLY)
73008-3245-94 CONST.

END PROJECT NO. BR-NH-29(115)

STA. 115+62.00

N 599927.7057 E 2413827.6973

SR29 STA. 115+80.00
N 599936.4622
E 2413843.4238



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COMMERCE
NO. 123081
STATE OF TENNESSEE
04-11-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.109+50 TO STA.115+62

SCALE: 1"=50'

STAGE II
INTERMEDIATE GRADING

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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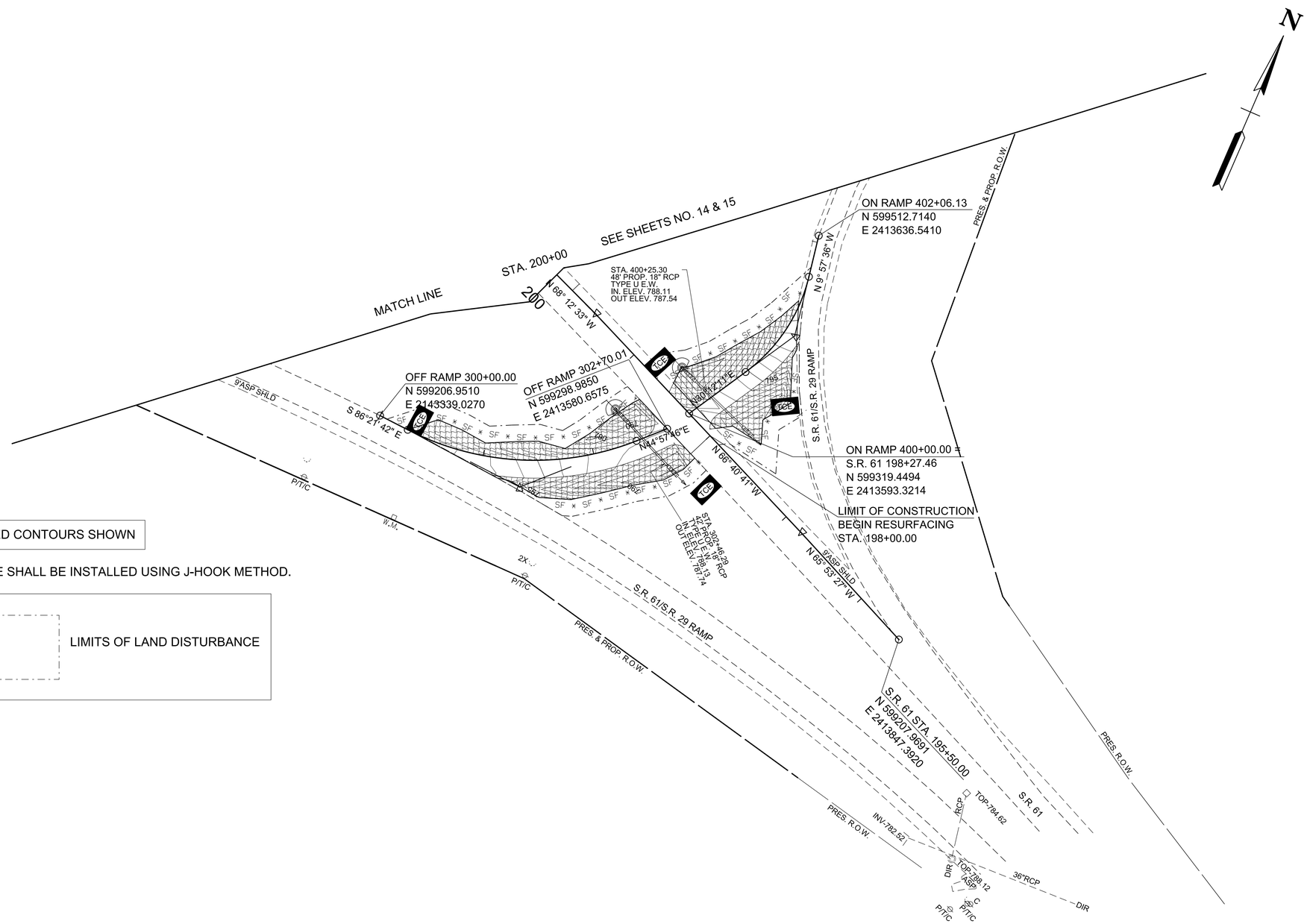
PIH	2024	BR-NH-29(115)	16
PS&E	2025	BR-NH-29(115)	16



NOTE: PROPOSED CONTOURS SHOWN

NOTE: SILT FENCE SHALL BE INSTALLED USING J-HOOK METHOD.

LIMITS OF LAND DISTURBANCE

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SUMMERS
No. 128851
STATE OF TENNESSEE
04-11-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 195+50 TO STA. 200+00

SCALE: 1"=50'

STAGE II
INTERMEDIATE GRADING

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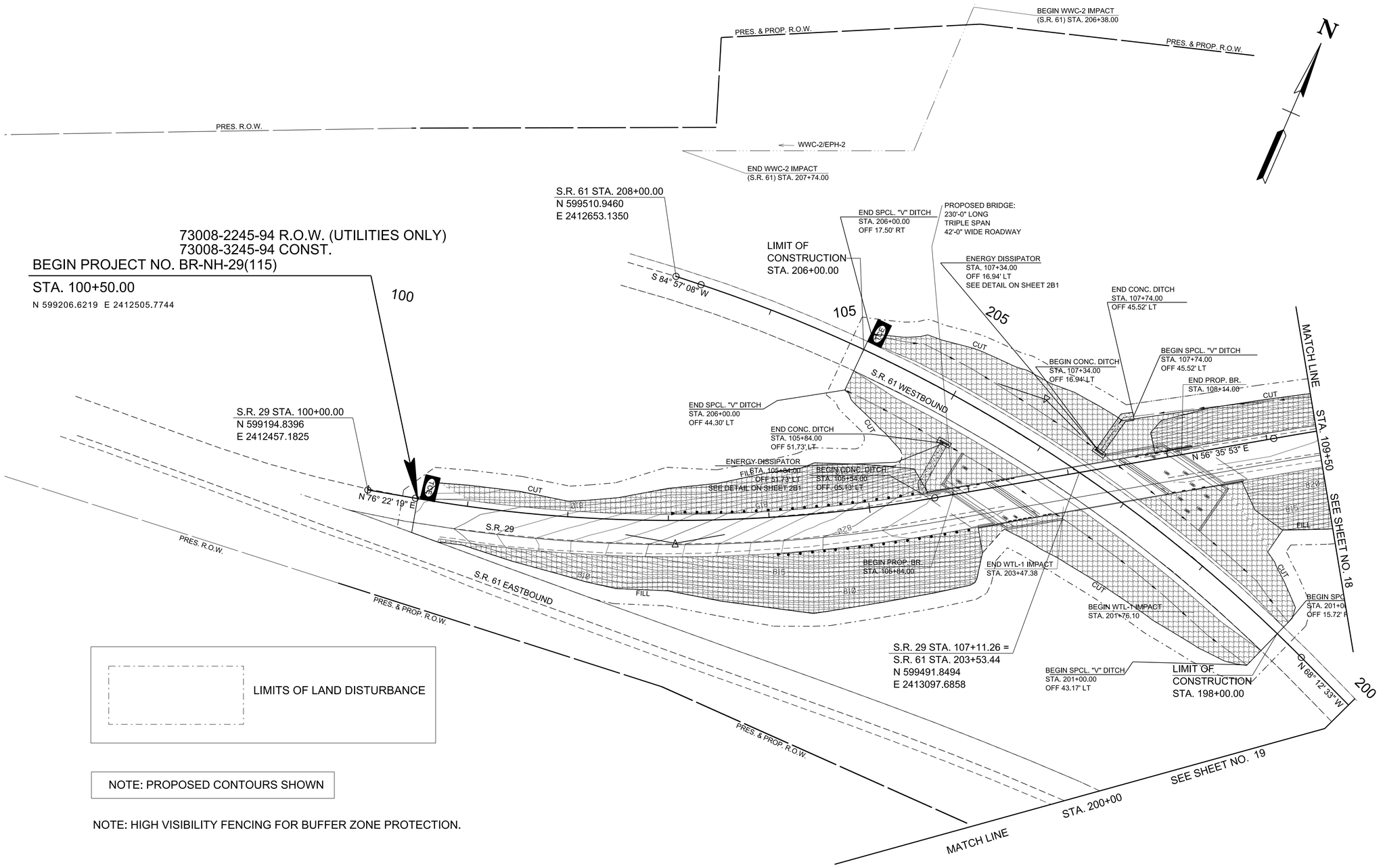
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	18
PIH	2024	BR-NH-29(115)	17
PS&E	2025	BR-NH-29(115)	17



LIMITS OF LAND DISTURBANCE

NOTE: PROPOSED CONTOURS SHOWN

NOTE: HIGH VISIBILITY FENCING FOR BUFFER ZONE PROTECTION.

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EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128084
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.100+50 TO STA.109+50

SCALE: 1"=50'

STAGE III
FINAL CONSTRUCTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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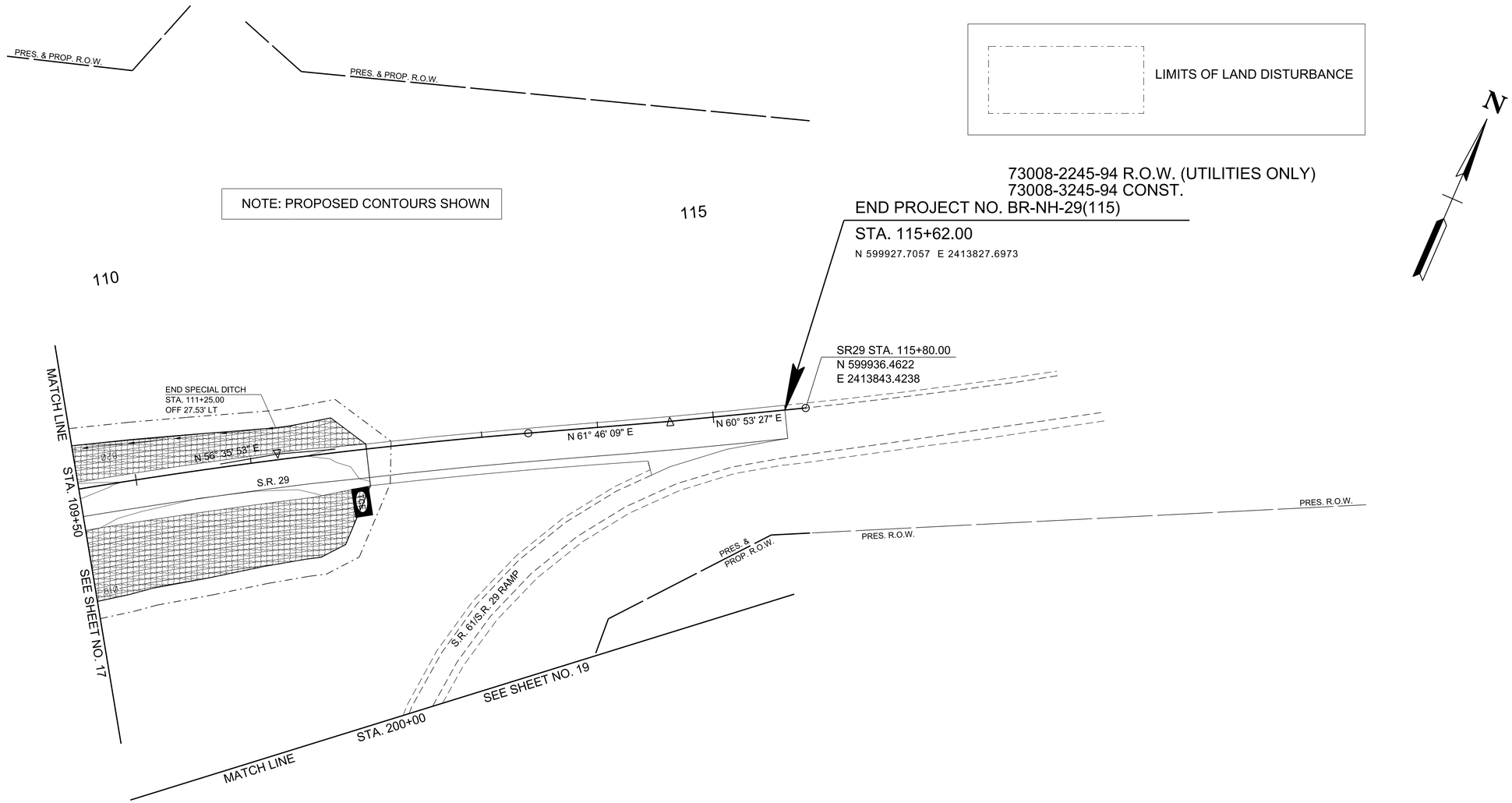
PIH	2024	BR-NH-29(115)	18
PS&E	2025	BR-NH-29(115)	18



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AGRICULTURE
COMMERCE
No. 128851
STATE OF TENNESSEE
04-11-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.109+50 TO STA.115+62

SCALE: 1"=50'

STAGE III
FINAL CONSTRUCTION

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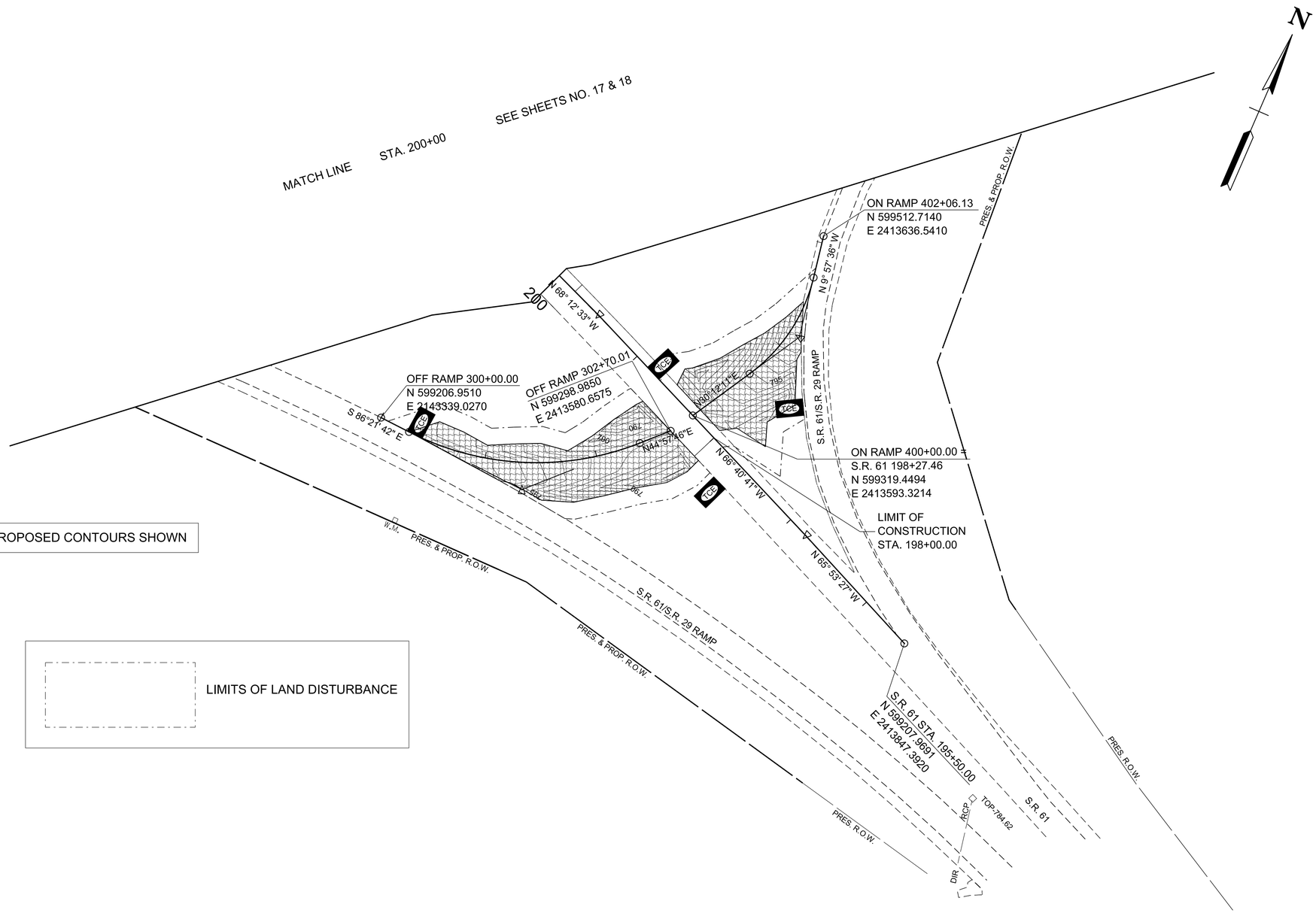
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	20
PIH	2024	BR-NH-29(115)	19
PS&E	2025	BR-NH-29(115)	19



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AGRICULTURE
COMMERCE
NO. 128087
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 195+50 TO STA 200+00

SCALE: 1"=50'

STAGE III
FINAL CONSTRUCTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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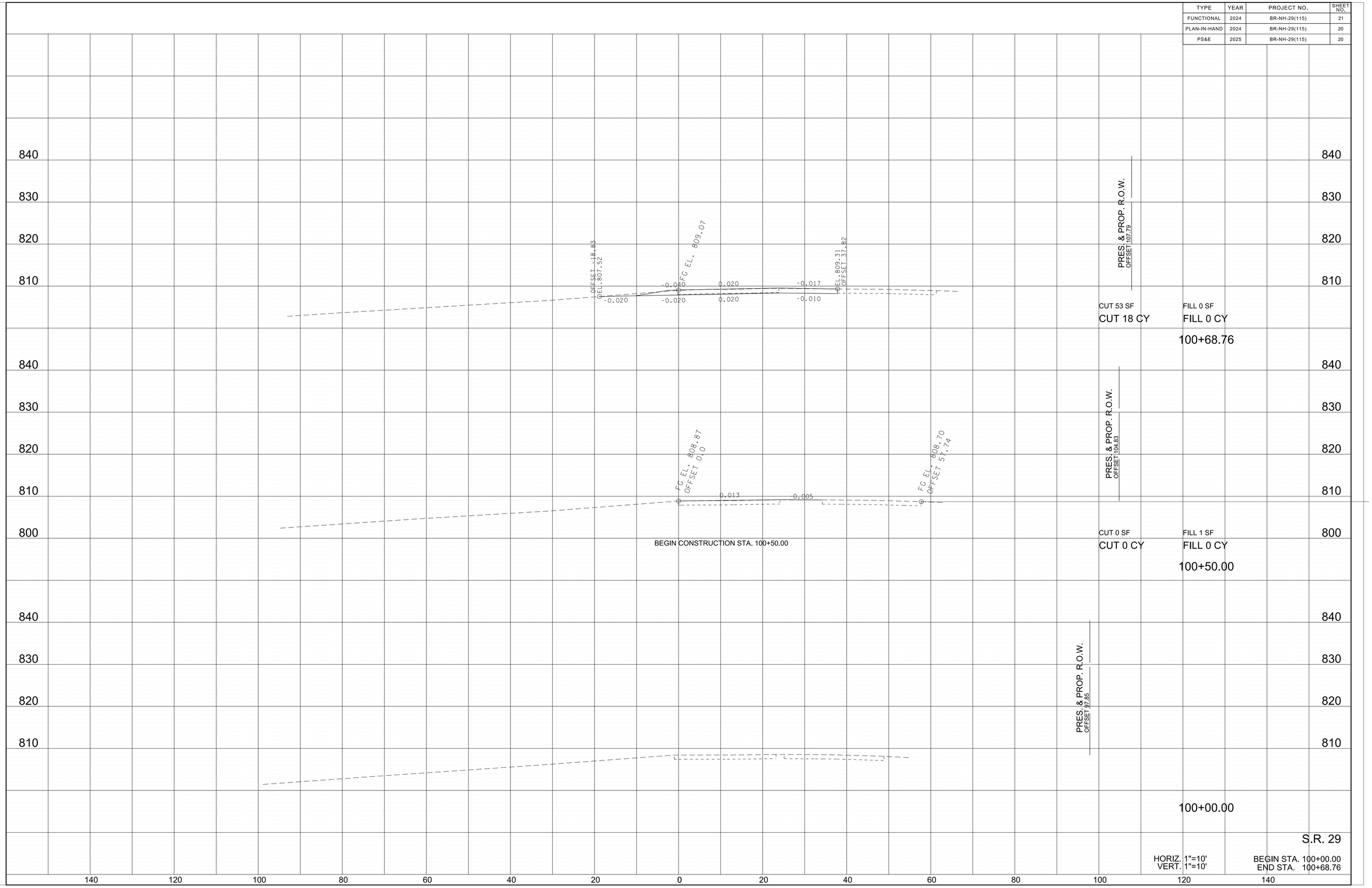
PLAN-IN-HAND	2024	BR-NH-29(115)	20
PS&E	2025	BR-NH-29(115)	20



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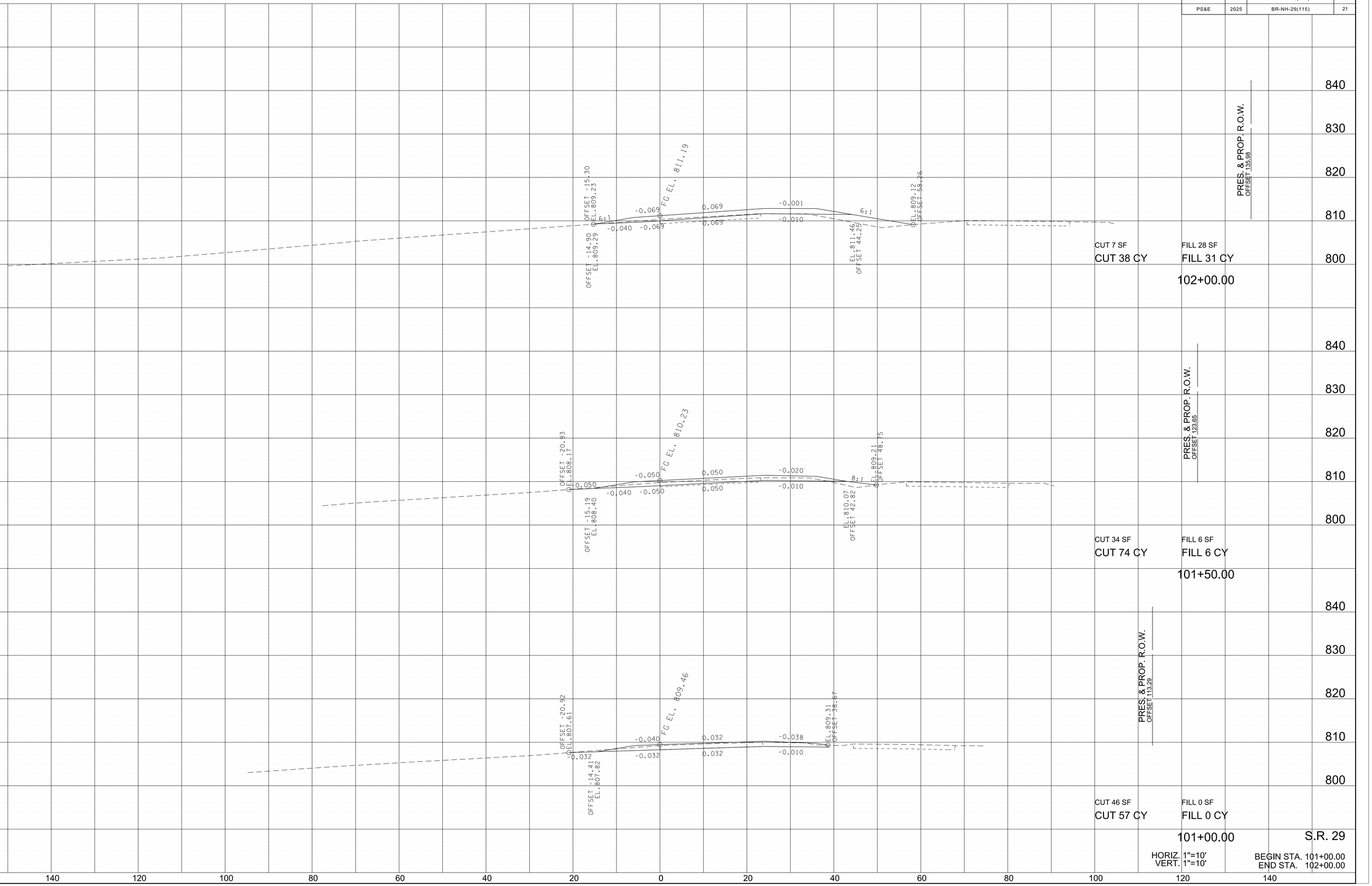
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	22
PLAN-IN-HAND	2024	BR-NH-29(115)	21
PS&E	2025	BR-NH-29(115)	21



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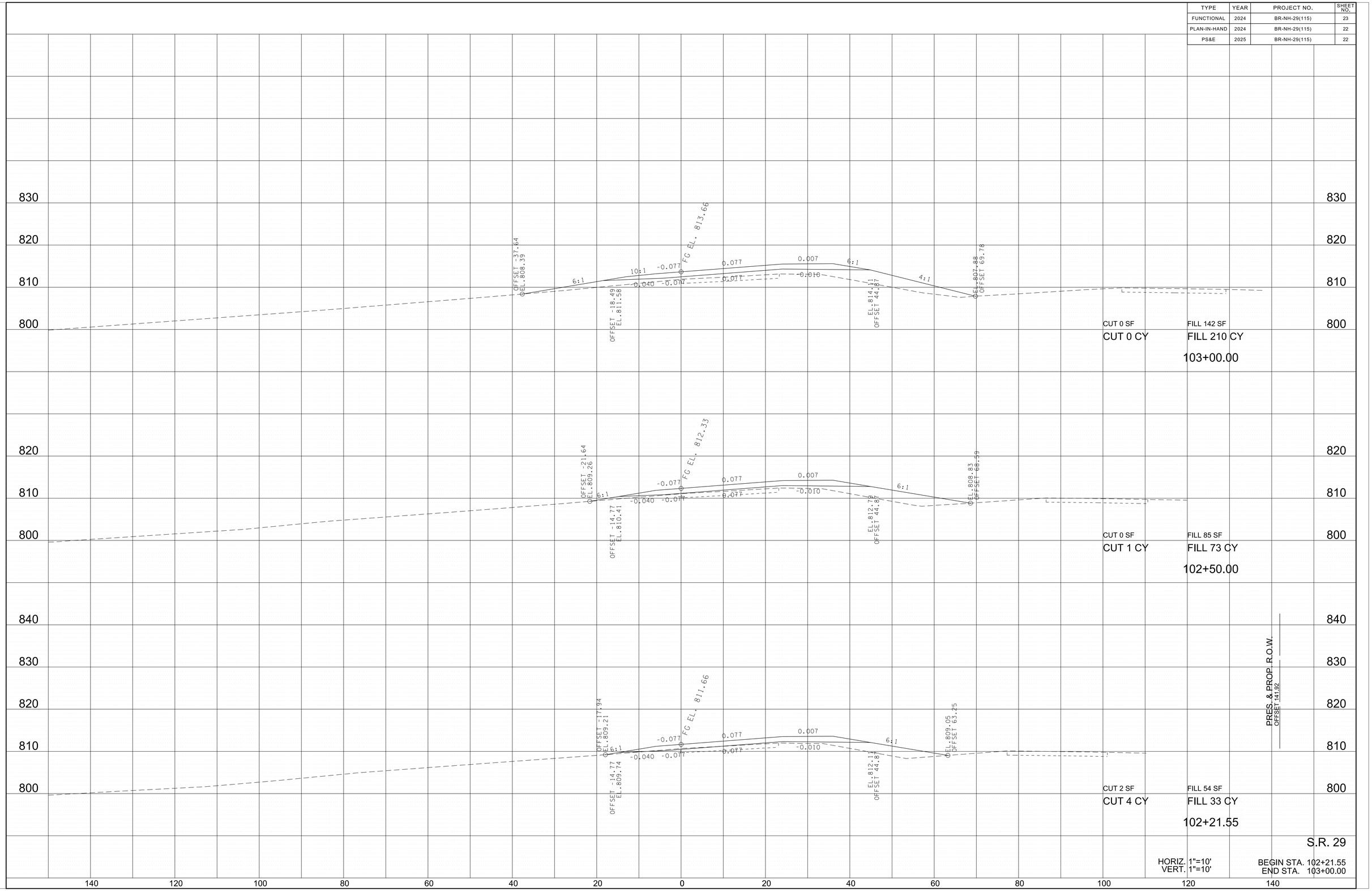
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	23
PLAN-IN-HAND	2024	BR-NH-29(115)	22
PS&E	2025	BR-NH-29(115)	22



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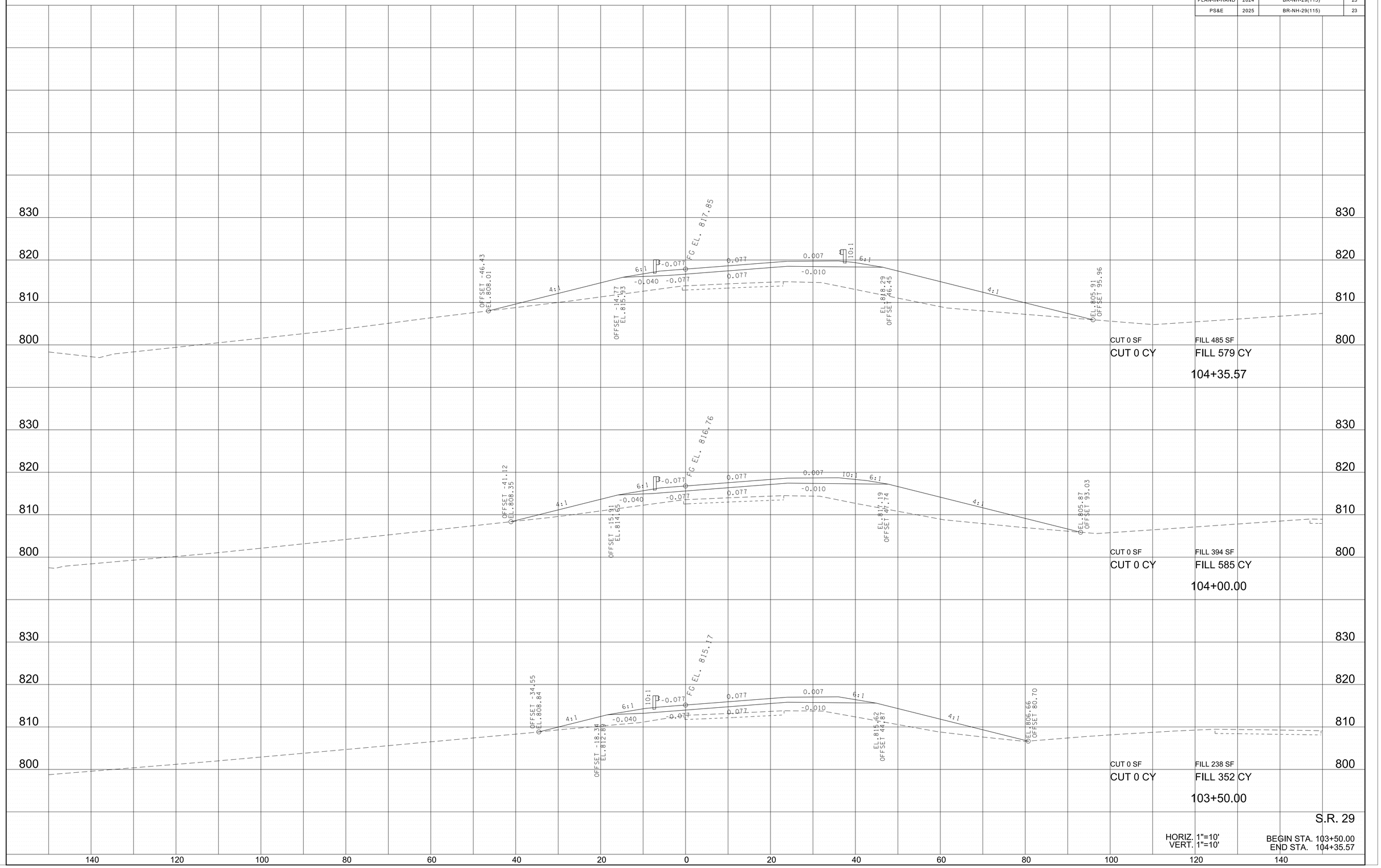
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	24
PLAN-IN-HAND	2024	BR-NH-29(115)	23
PS&E	2025	BR-NH-29(115)	23



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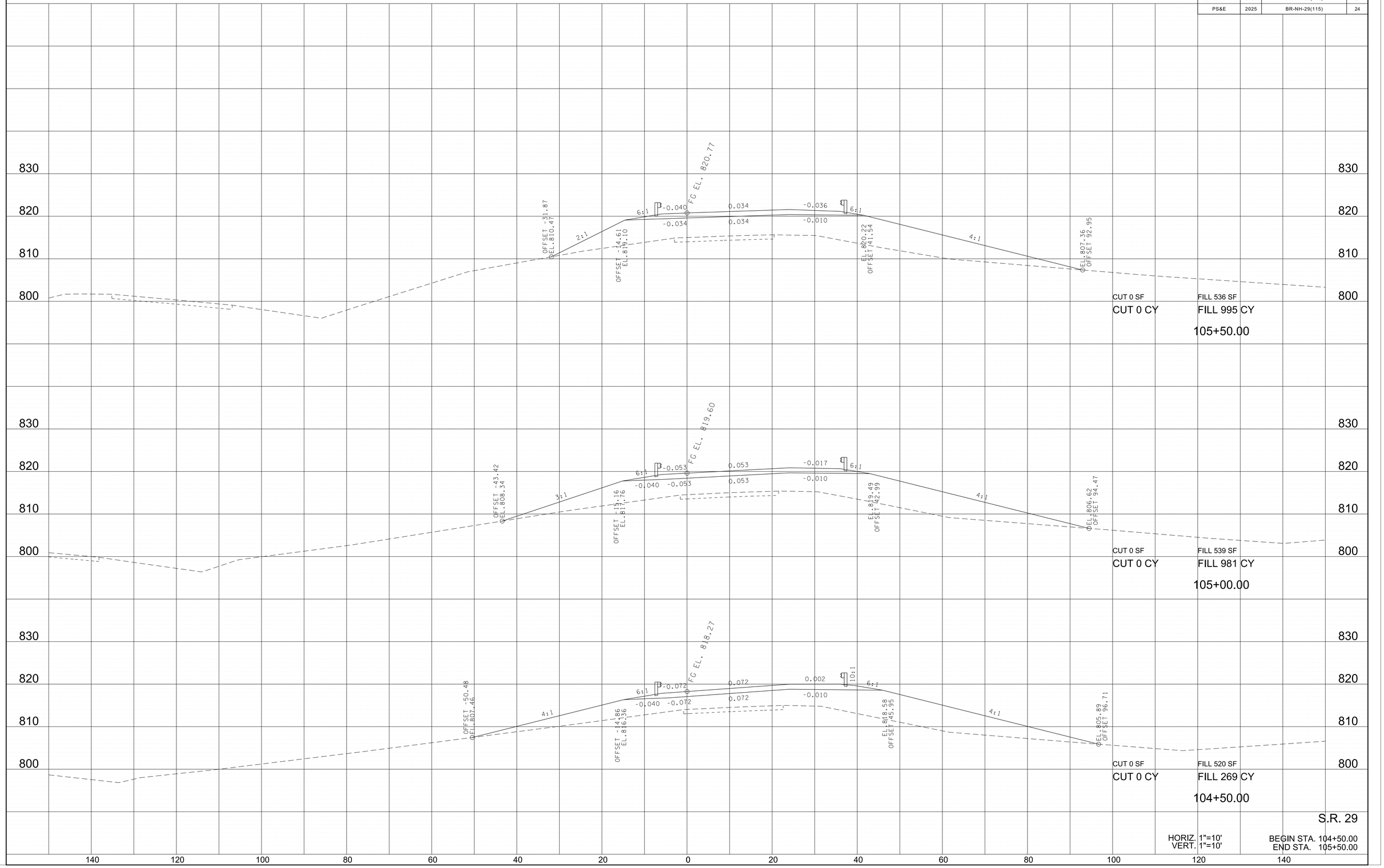
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	25
PLAN-IN-HAND	2024	BR-NH-29(115)	24
PS&E	2025	BR-NH-29(115)	24



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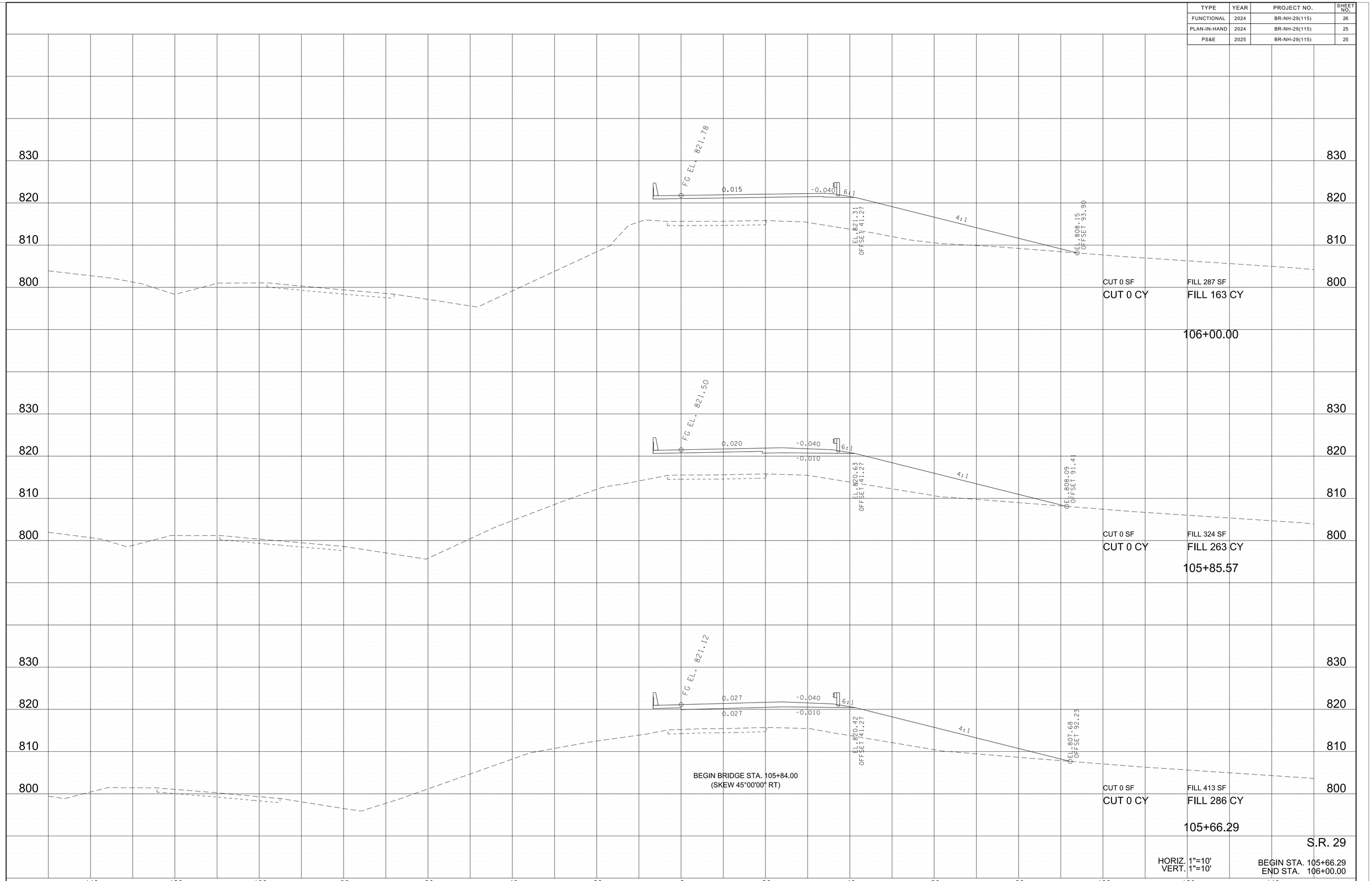
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	26
PLAN-IN-HAND	2024	BR-NH-29(115)	25
PS&E	2025	BR-NH-29(115)	25



S.R. 29

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

BEGIN STA. 105+66.29
END STA. 106+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	27
PLAN-IN-HAND	2024	BR-NH-29(115)	26
PS&E	2025	BR-NH-29(115)	26

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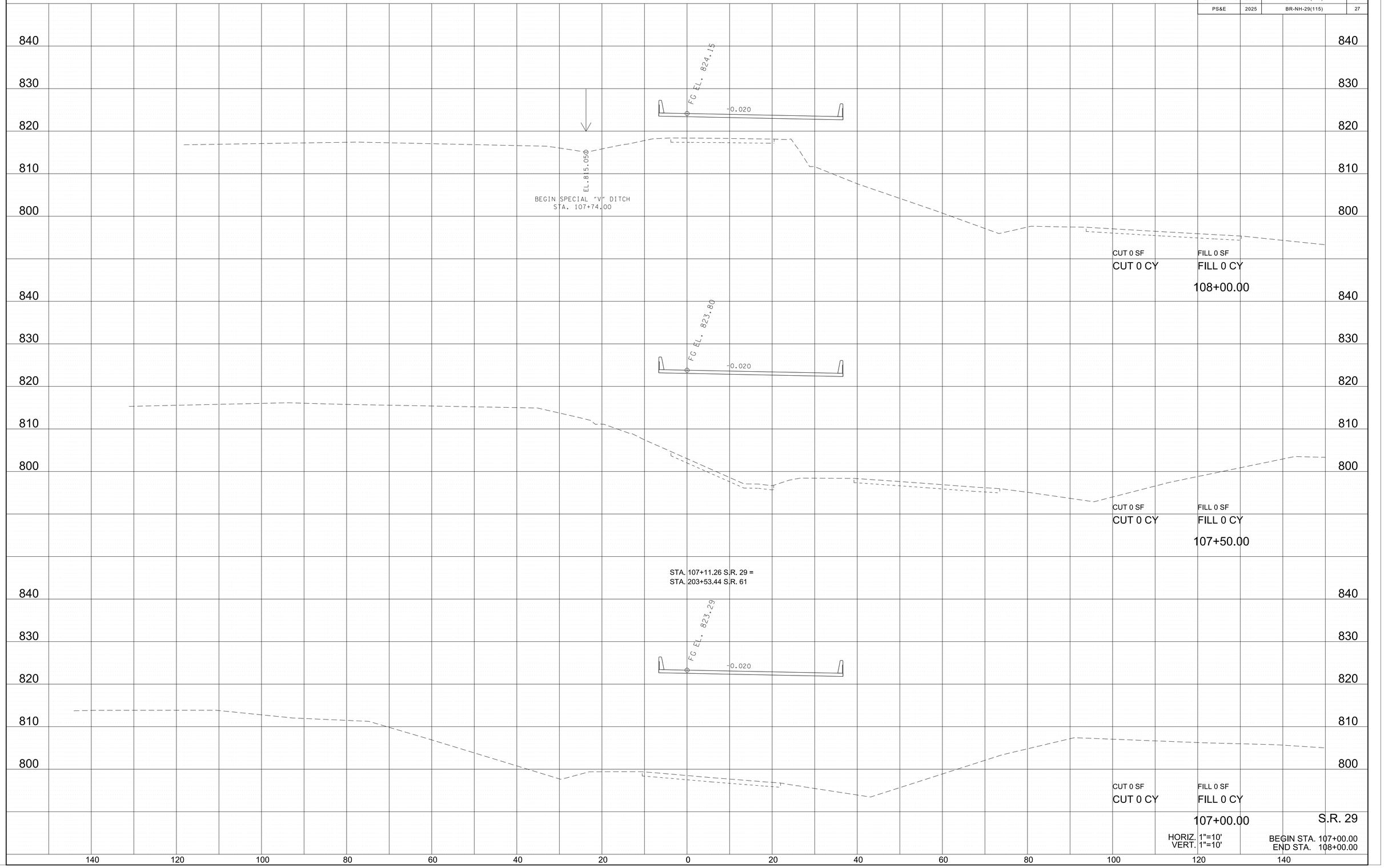
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	28
PLAN-IN-HAND	2024	BR-NH-29(115)	27
PS&E	2025	BR-NH-29(115)	27



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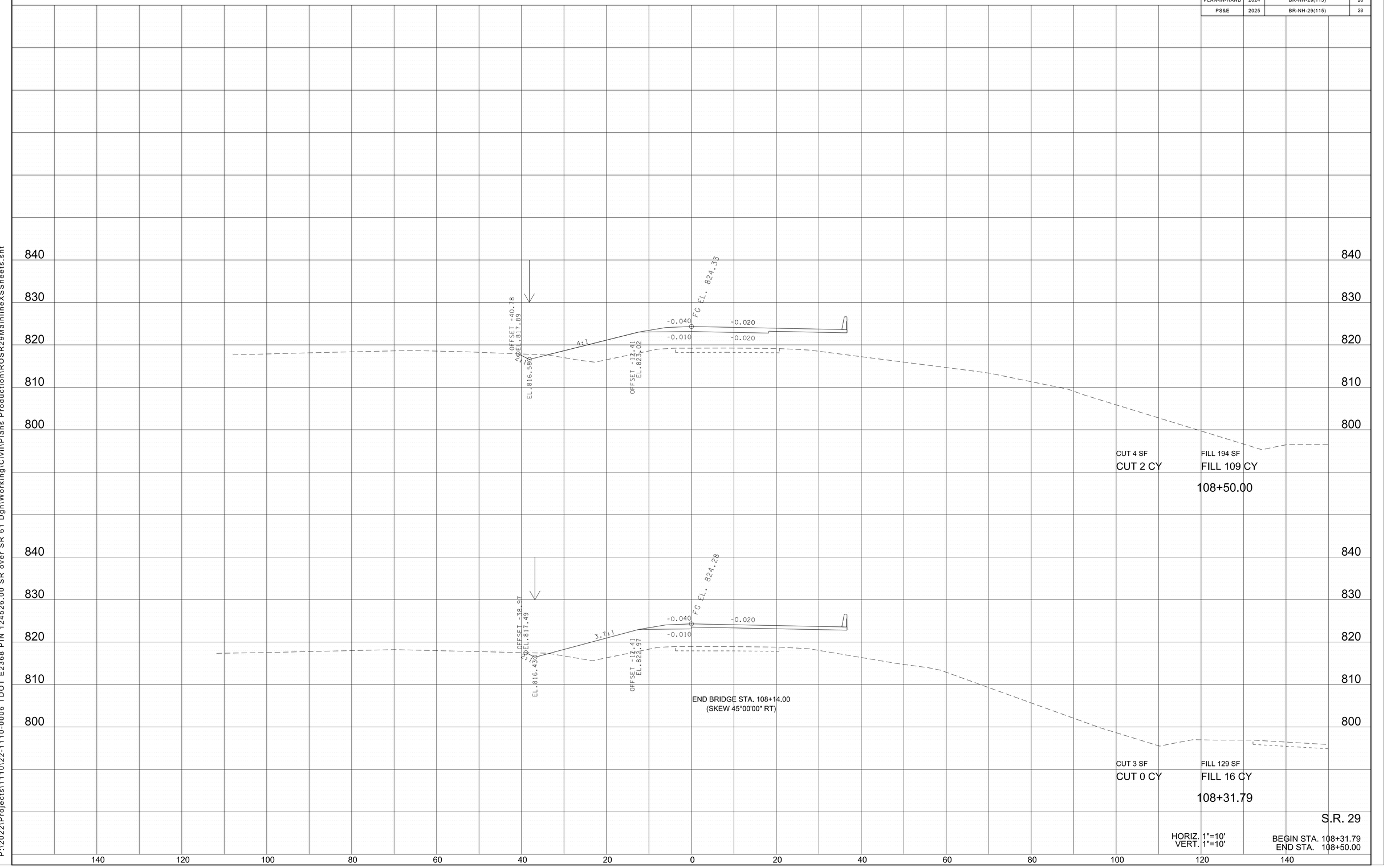
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	29
PLAN-IN-HAND	2024	BR-NH-29(115)	28
PS&E	2025	BR-NH-29(115)	28



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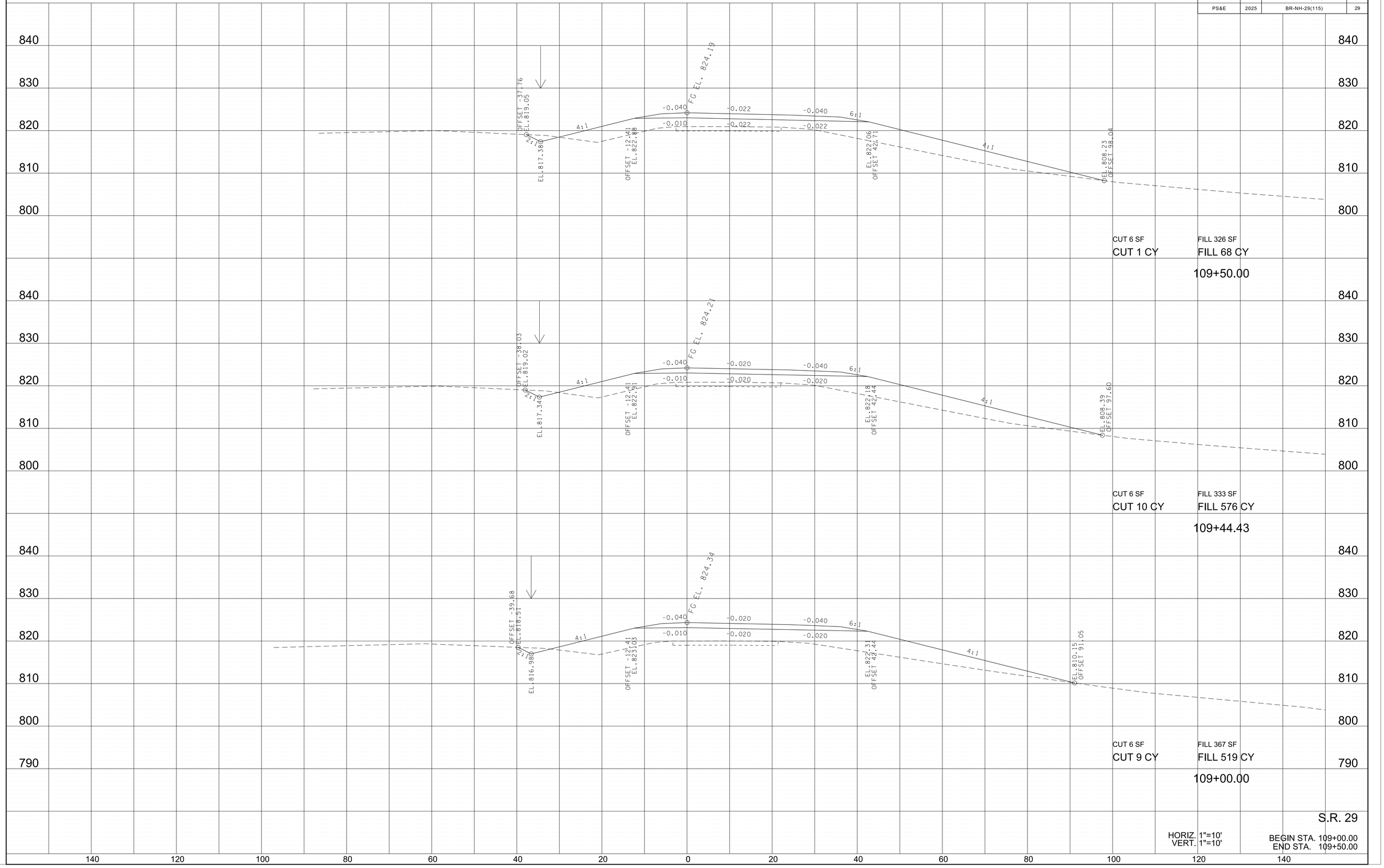
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	30
PLAN-IN-HAND	2024	BR-NH-29(115)	29
PS&E	2025	BR-NH-29(115)	29



S.R. 29

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

BEGIN STA. 109+00.00
END STA. 109+50.00

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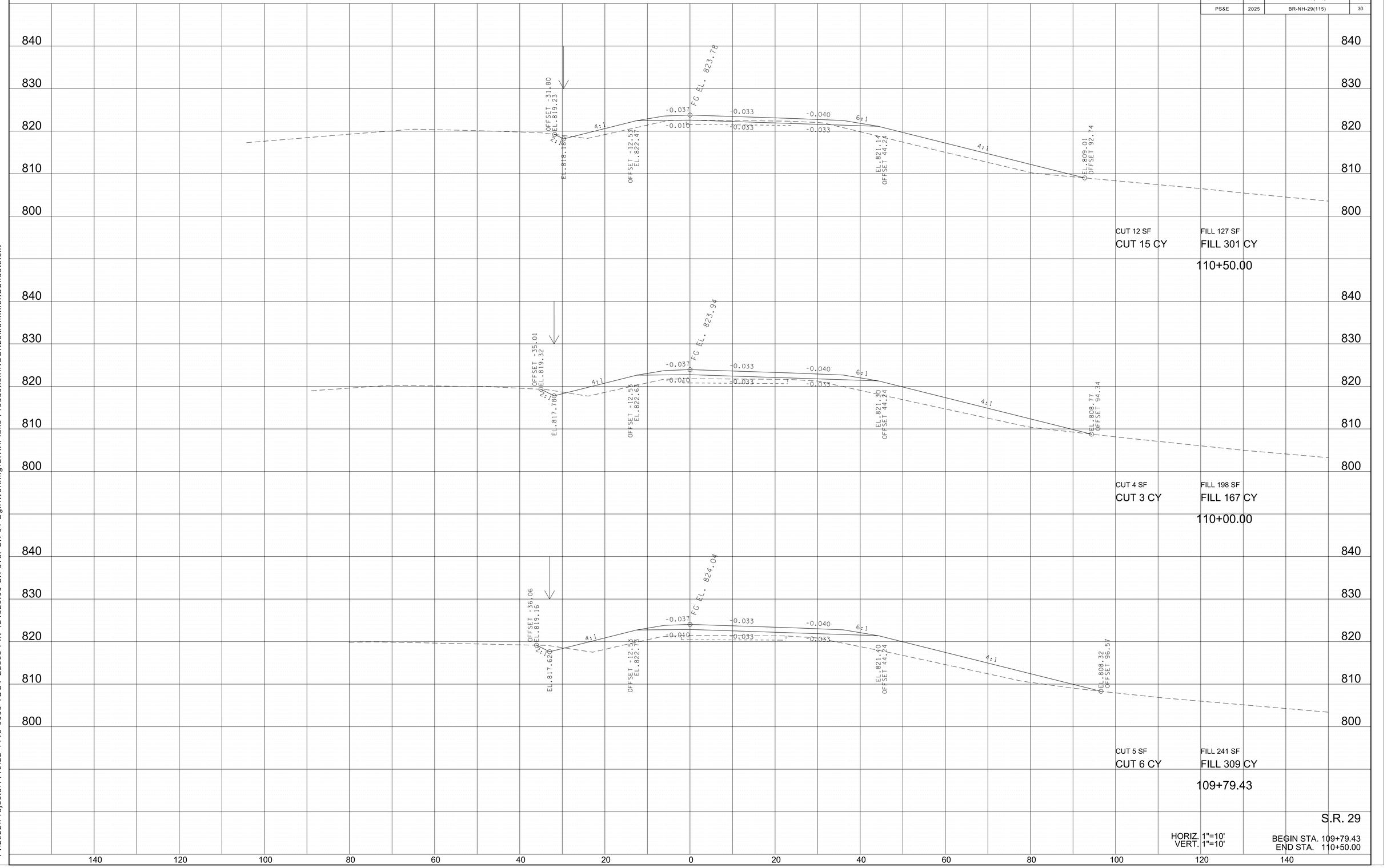
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	31
PLAN-IN-HAND	2024	BR-NH-29(115)	30
PS&E	2025	BR-NH-29(115)	30



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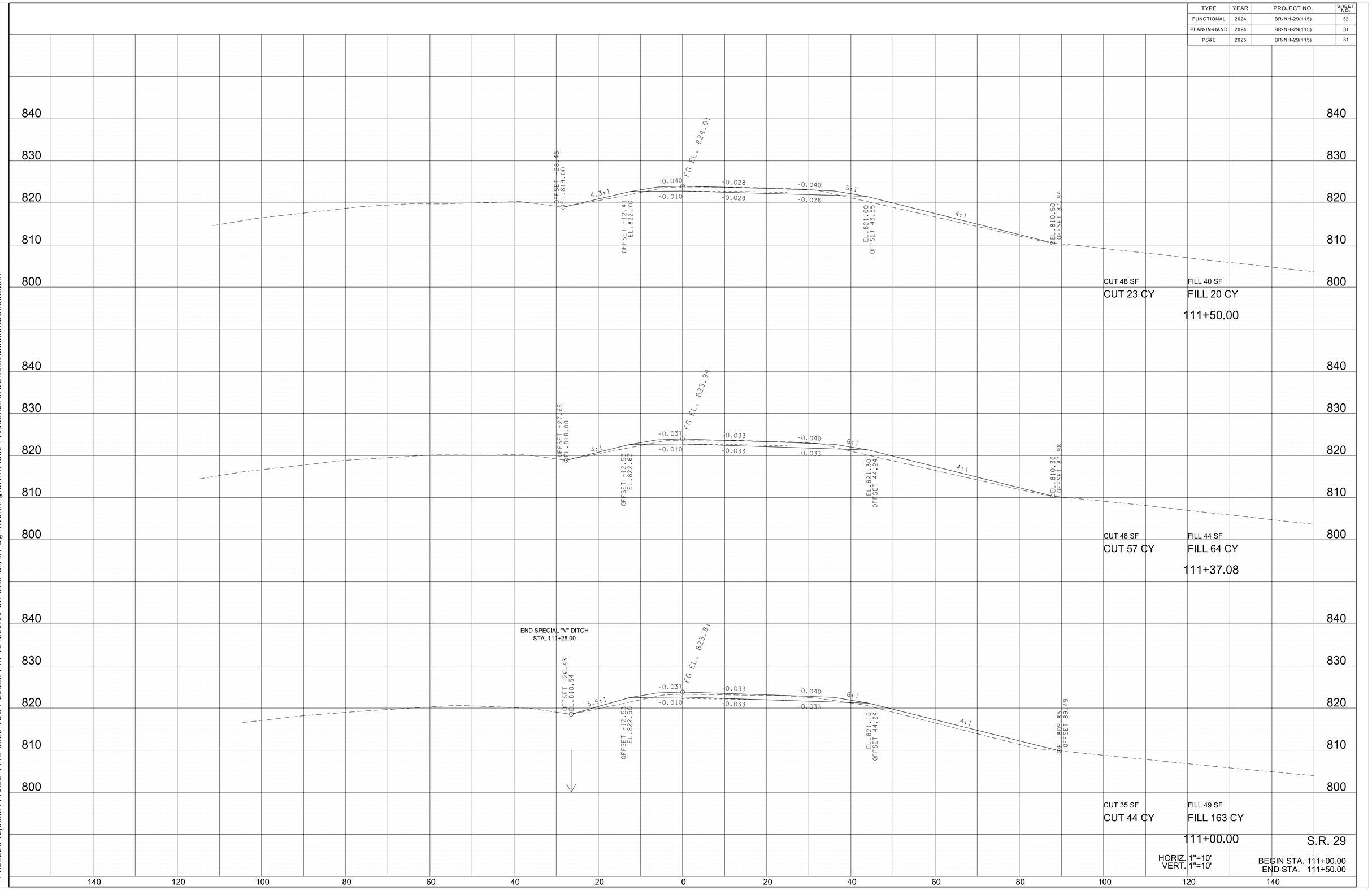
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	32
PLAN-IN-HAND	2024	BR-NH-29(115)	31
PS&E	2025	BR-NH-29(115)	31



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	33
PLAN-IN-HAND	2024	BR-NH-29(115)	32
PS&E	2025	BR-NH-29(115)	32

840
830
820
810

FG EL. 825.07
-0.011

CUT 0 SF
CUT 0 CY

FILL 0 SF
FILL 0 CY

112+50.00

END GRADE & DRAIN
BEGIN RESURFACING
STA. 112+00.00

840
830
820
810

EL.819.46

FG EL. 824.40
+0.010

CUT 0 SF
CUT 24 CY

FILL 1 SF
FILL 10 CY

112+00.00

840
830
820
810

OFFSET -30.15
EL.819.21

5:1

-0.040
-0.010

FG EL. 824.17

-0.020
-0.020

-0.040
-0.020

6:1

OFFSET -11.72
EL.822.86

EL.822.16
OFFSET 40.89

4:1

EL.812.49
OFFSET 79.59

CUT 48 SF
CUT 40 CY

FILL 18 SF
FILL 24 CY

111+72.65

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

S.R. 29

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

BEGIN STA. 111+72.65
END STA. 112+50.00

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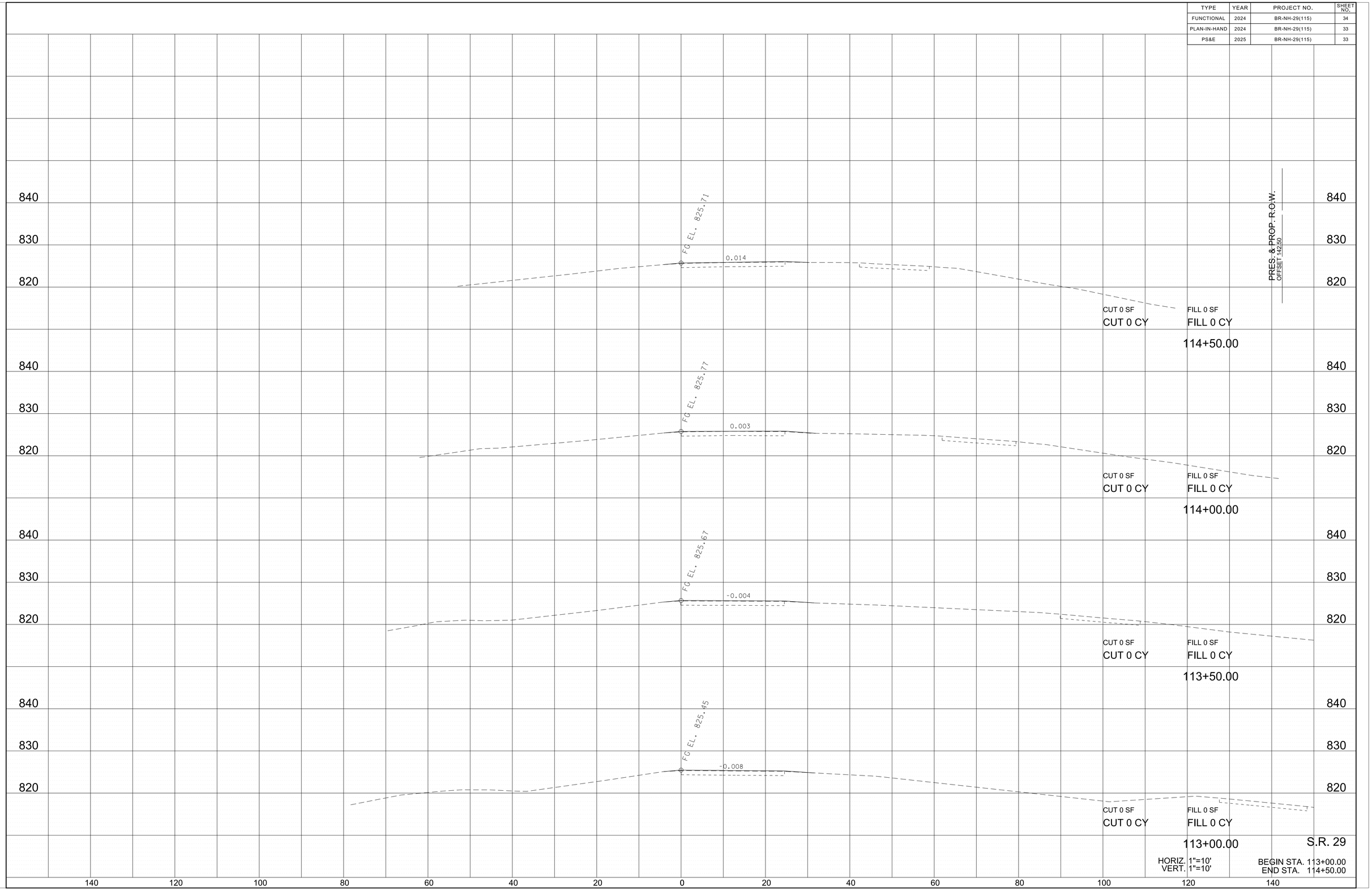
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	34
PLAN-IN-HAND	2024	BR-NH-29(115)	33
PS&E	2025	BR-NH-29(115)	33



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	35
PLAN-IN-HAND	2024	BR-NH-29(115)	34
PS&E	2025	BR-NH-29(115)	34

840
830
820

PRES. & PROP. R.O.W.
OFFSET 107.87

115+80.00

END CONSTRUCTION STA. 115+62.00

FG EL. 825.62
0.030

PRES. & PROP. R.O.W.
OFFSET 107.01

CUT 0 SF
CUT 0 CY

FILL 0 SF
FILL 0 CY

115+62.00

FG EL. 825.62
0.031

PRES. & PROP. R.O.W.
OFFSET 106.44

CUT 0 SF
CUT 0 CY

FILL 0 SF
FILL 0 CY

115+50.00

FG EL. 825.62
0.027

FG EL. 825.78
OFFSET 46.12

PRES. & PROP. R.O.W.
OFFSET 121.84

CUT 0 SF
CUT 0 CY

FILL 0 SF
FILL 0 CY

115+00.00

S.R. 29

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

BEGIN STA. 115+00.00
END STA. 115+80.00

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

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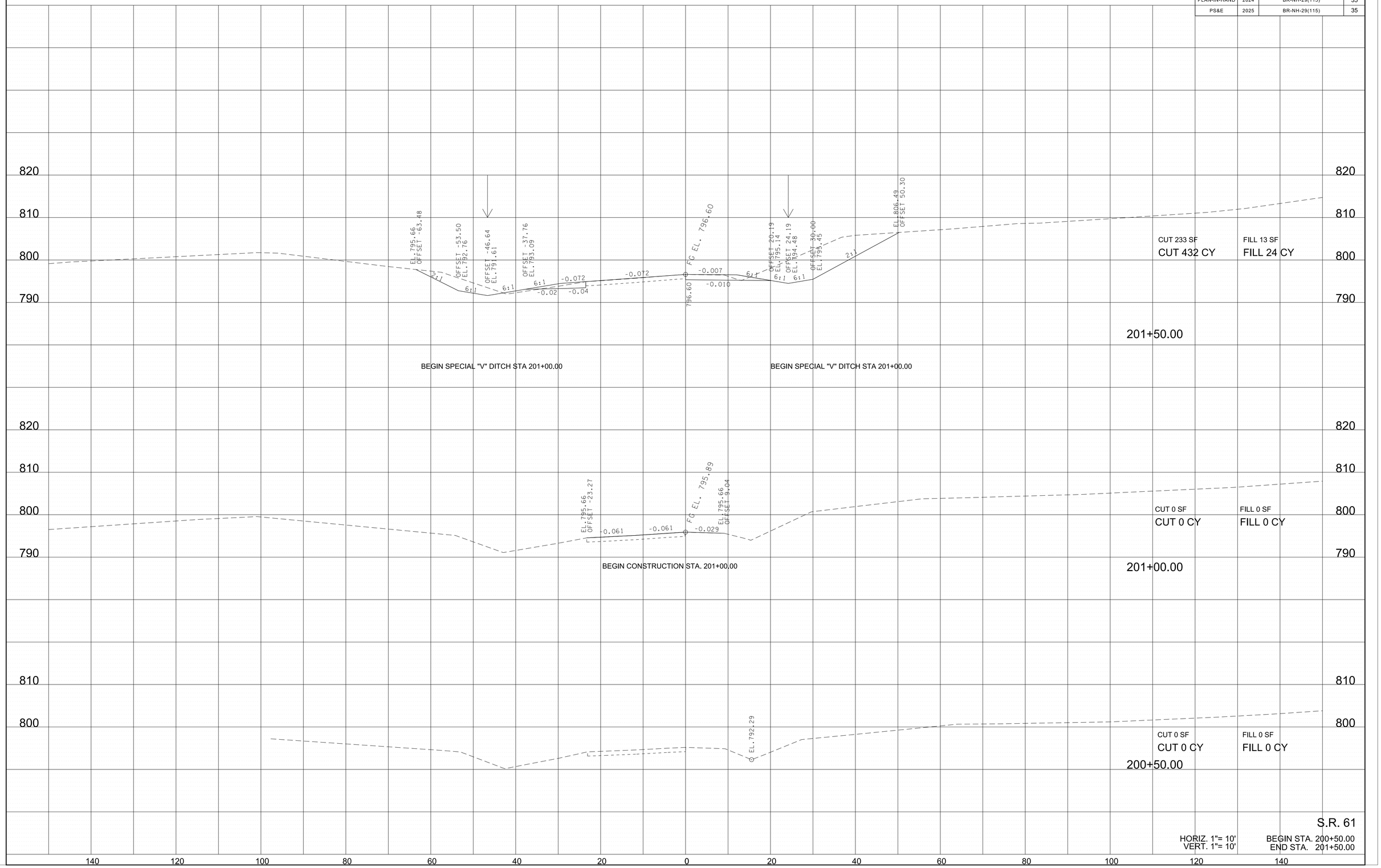
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	36
PLAN-IN-HAND	2024	BR-NH-29(115)	35
PS&E	2025	BR-NH-29(115)	35



S.R. 61

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

BEGIN STA. 200+50.00
END STA. 201+50.00

2/12/2025 5:16:42 PM
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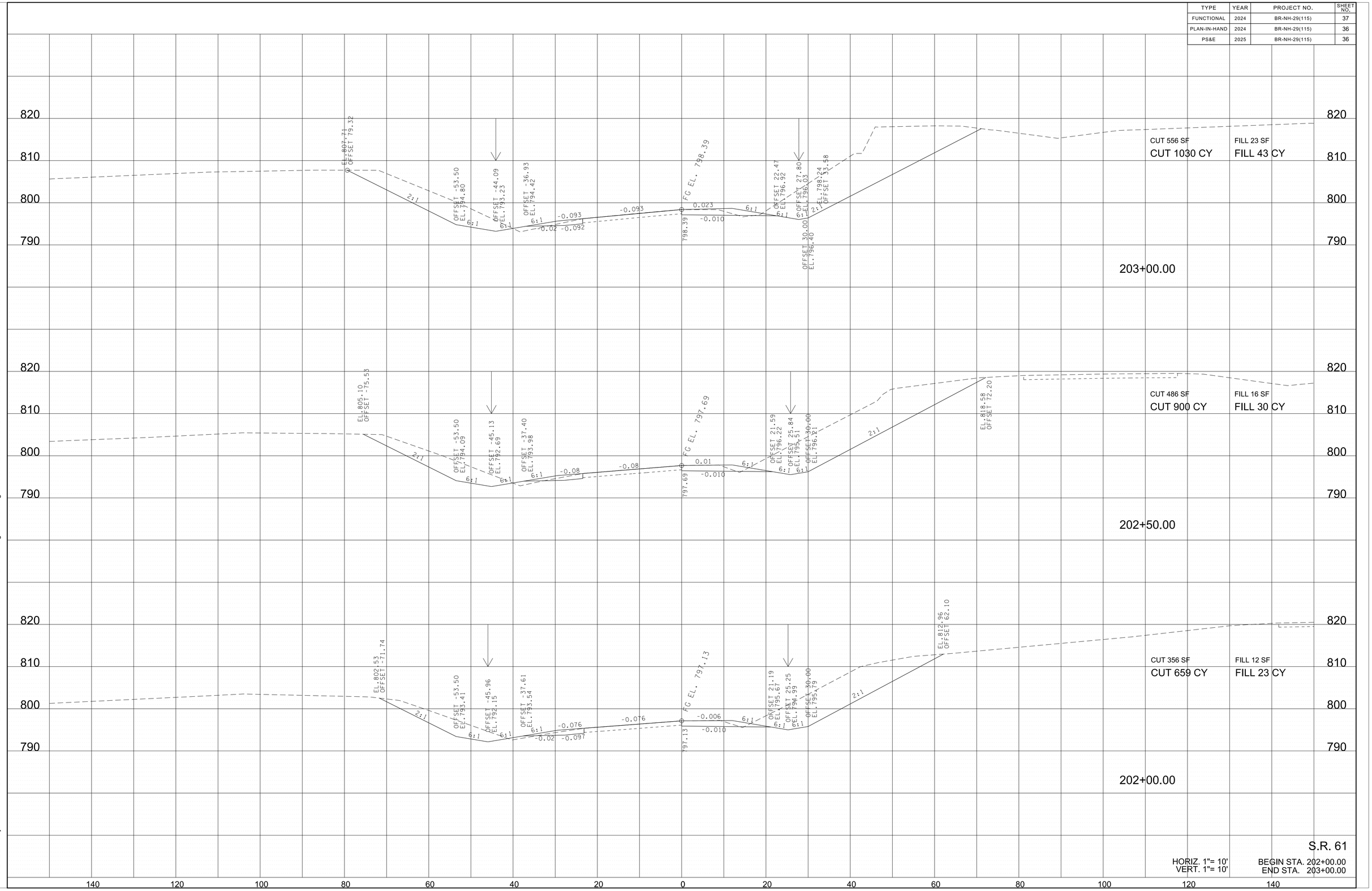
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	37
PLAN-IN-HAND	2024	BR-NH-29(115)	36
PS&E	2025	BR-NH-29(115)	36



S.R. 61

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

BEGIN STA. 202+00.00
END STA. 203+00.00

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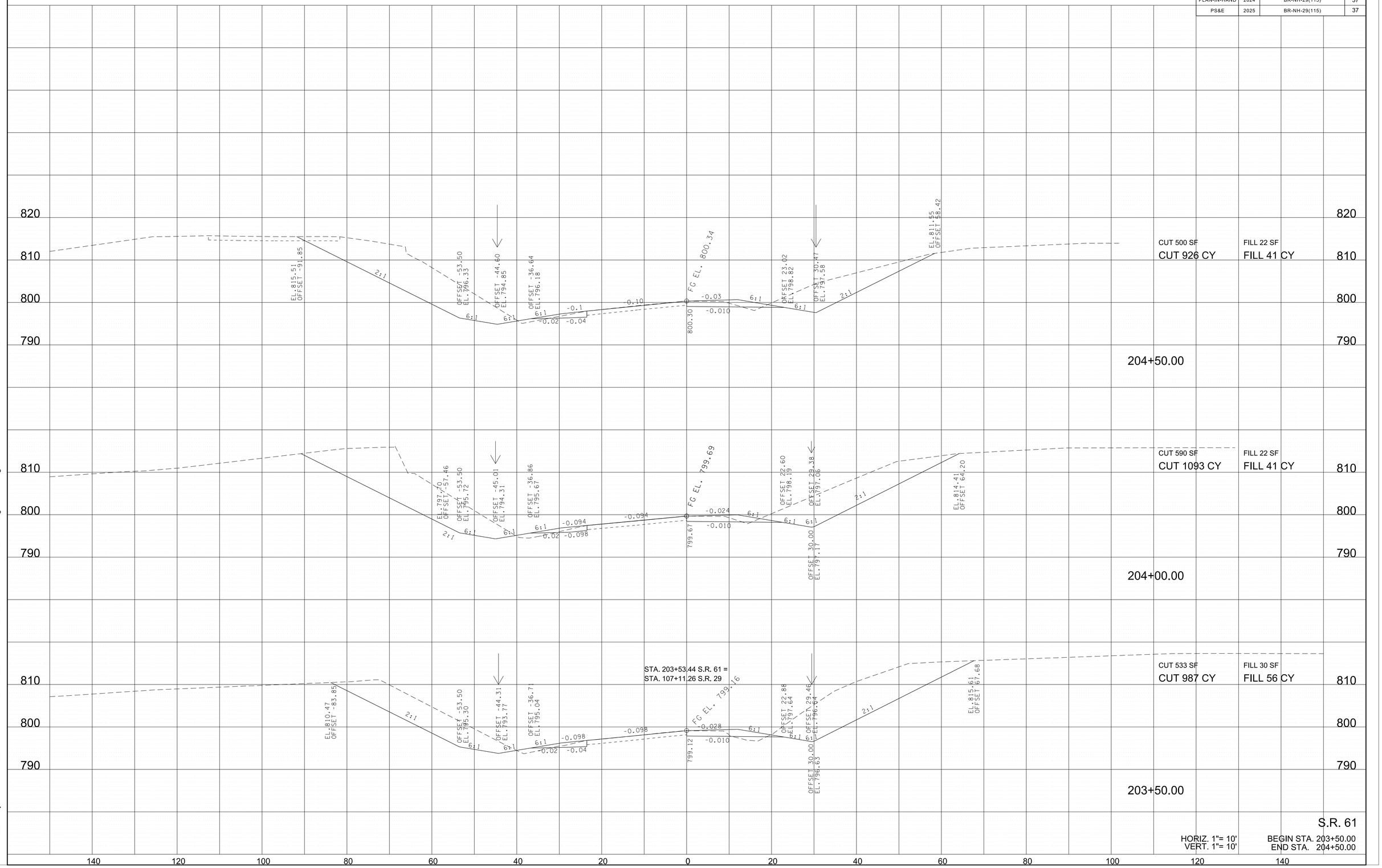
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	38
PLAN-IN-HAND	2024	BR-NH-29(115)	37
PS&E	2025	BR-NH-29(115)	37



S.R. 61

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

BEGIN STA. 203+50.00
END STA. 204+50.00

2/12/2025 5:17:52 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	39
PLAN-IN-HAND	2024	BR-NH-29(115)	38
PS&E	2025	BR-NH-29(115)	38

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END CONSTRUCTION STA. 206+00.00

EL.799.77
OFFSET -23.50
-0.101
-0.111
FC EL. 802.28
802.25
EL.802.02
OFFSET 8.80
-0.030

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
206+50.00

CUT 40 SF
CUT 74 CY
FILL 0 SF
FILL 0 CY
206+00.00

END SPECIAL "V" DITCH STA. 206+00.00

END SPECIAL "V" DITCH STA. 206+00.00

EL.802.43
OFFSET -63.66
OFFSET -53.50
EL.797.35
OFFSET -44.96
EL.795.93
OFFSET -36.62
EL.797.32
FG EL. 801.47
801.45
OFFSET 23.07
EL.799.97
OFFSET 31.22
EL.798.61
EL.803.45
OFFSET 40.90
-0.1
-0.1
0.03
-0.010
-0.02
-0.04

CUT 117 SF
CUT 217 CY
FILL 25 SF
FILL 47 CY
205+50.00

EL.809.94
OFFSET -79.75
OFFSET -53.50
EL.796.82
OFFSET -44.90
EL.795.39
OFFSET -36.43
EL.796.80
FG EL. 801.06
801.04
OFFSET 23.41
EL.799.56
OFFSET 32.17
EL.798.10
EL.808.16
OFFSET 52.29
-0.1
-0.1
-0.035
-0.010
-0.02
-0.098

CUT 273 SF
CUT 506 CY
FILL 27 SF
FILL 50 CY
205+00.00

S.R. 61

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

BEGIN STA. 205+00.00
END STA. 206+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T1
PIH	2024	BR-NH-29(115)	T1
PS&E	2025	BR-NH-29(115)	T1

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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

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

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

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

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

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128083
STATE OF TENNESSEE
04-11-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T2
PIH	2024	BR-NH-29(115)	T2
PS&E	2025	BR-NH-29(115)	T2

TABULATED TRAFFIC CONTROL QUANTITIES

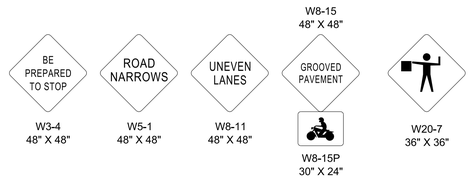
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 73008-3245-94
	203-06	WATER	M.G.	51
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	479
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	89
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	1
(1)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	4
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	52
(2)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	90
(2)	611-07.31	18" ENDWALL (SIDE DRAIN)	EACH	4
	712-01	TRAFFIC CONTROL	LS	1
(1)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
	712-06	SIGNS (CONSTRUCTION)	S.F.	614
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	168
	712-09.02	8" TEMP SOILD WHITE LINE	L.F.	2500
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	16
	712-09.05	REMOVABLE PAVEMENT MARKING (ARROW)	EACH	2
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
(1)(3)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1

FOOTNOTES

(1) TO BE USED AS DIRECTED BY THE ENGINEER
(2) SEE TABULATION ON SHEET T4
(3) MESSAGE TO BE DETERMINED BY FIELD ENGINEER

TRAFFIC CONTROL 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 THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. ALL CONSTRUCTION SIGNS ON THE PROJECT SHALL BE COVERED WHEN WORK WILL NOT BE AFFECTING TRAFFIC. COST OF COVERING/UNCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY T.D.O.T PROJECT MANAGER.
5. DETOUR SIGNS AND ROUTE WILL BE INSTALLED AND MAINTAINED BY THE STATE.



SIGNS SHOWN ABOVE ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE USED AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-SIDED)
	CHANGEABLE MESSAGE SIGN
	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)
	PAVEMENT MARKING ARROW-WRONG WAY

TRAFFIC CONTROL SIGN TABULATION

M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L	X	W	S.F.	NO. REQUIRED PHASE I	NO. REQUIRED PHASE II	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
D3-1	SR 29	30"	X	12"	3		14	14	35.00		
G20-2	END ROAD WORK	48"	X	24"	8		6	6	48.00		
M4-8a	END DETOUR	30"	X	15"	3		2	2	6.25	T-WZ-10	
M4-9	DETOUR (STRAIGHT ARROW)	30"	X	24"	5		1	1	5.00		
M4-9L	DETOUR (LEFT ARROW)	30"	X	24"	5		4	4	20.00		
M4-9MOD	DETOUR (TURN ARROW)	30"	X	24"	5		3	3	15.00		
R1-1	STOP	36"	X	36"	9		1	1	9.00	T-M-9	
R1-2	YIELD	48"	X	48"	16		1	1	16.00		
R2-1	SPEED LIMIT	36"	X	48"	12	1	4	4	48.00		
R3-1	NO RIGHT TURN (SYMBOL)	24"	X	24"	4		2	2	8.00	T-M-9	
R5-1	DO NOT ENTER	30"	X	30"	6		2	2	12.50	T-M-9	
R5-1a	WRONG WAY	42"	X	30"	9		2	2	17.50	T-M-9	
R11-2	ROAD CLOSED	48"	X	30"	10	7	2	7	70.00		
R21-5L	LEFT SHOULDER CLOSED (1500FT)	48"	X	48"	16	2		2	32.00		
W3-1S	STOP AHEAD (SYMBOL)	30"	X	30"	6		1	1	6.25	T-M-9	
W4-1	MERGE	36"	X	36"	9		1	1	9.00		
W8-11	UNEVEN LANES	48"	X	48"	16		2	2	32.00		
W8-17	SHOULDER DROP OFF	48"	X	48"	16		2	2	32.00		
W20-1	ROAD WORK (1 MILE)	48"	X	48"	16	2	2	2	32.00	T-WZ-10	
W20-1	ROAD WORK (1/2 MILE)	48"	X	48"	16	2	2	2	32.00	T-WZ-10	
W20-1	ROAD WORK (1000 FT)	48"	X	48"	16		2	2	32.00	T-WZ-10	
W20-2	DETOUR (1 MILE)	48"	X	48"	16		2	2	32.00	T-WZ-10	
W20-2	DETOUR (1/2 MILE)	48"	X	48"	16		2	2	32.00	T-WZ-10	
W20-2	DETOUR (1000 FT)	48"	X	48"	16		2	2	32.00	T-WZ-10	
								TOTAL	614	S.F.	

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NOTES, LEGEND AND TABULATION

TRAFFIC CONTROL PLANS

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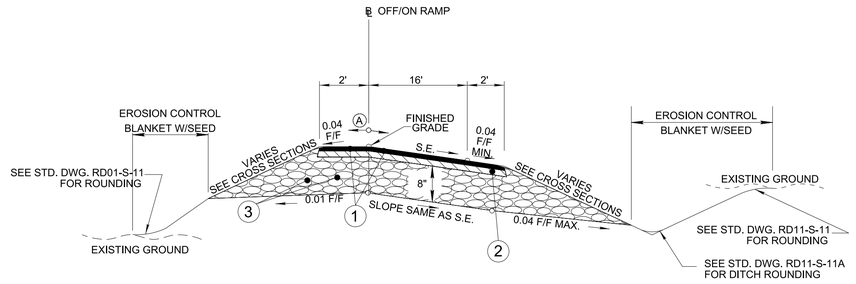
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T3
PIH	2024	BR-NH-29(115)	T3
PS&E	2025	BR-NH-29(115)	T3



SUPERELEVATED SECTION (OFF/ON RAMP)

(BASED ON STD. DWG. RD11-TS-3C)
FROM STA. 300+20.00 TO STA. 302+70.01 (OFF RAMP)
FROM STA. 400+00.00 TO STA. 401+68.14 (ON RAMP)

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

PROPOSED PAVEMENT SCHEDULE FOR OFF/ON RAMP

1. ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1-1/4"+ THICK
APPROX. 132.5 LBS./SQ. YD.
   - 411-01.10 ASPHALT CONCRETE MIX (PG64-22) GRADING "D"
   - 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (RATE 0.05-0.10 GAL./SQ. YD.)

2. BITUMINOUS PLANT MIX BASE (HOT MIX) @ 2"+ THICK
APPROX. 226 LBS./SQ. YD.
   - 307-01.08 ASPHALT CONCRETE MIX (PG64-22) GR "B-M2"
   - 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.30-0.35 GAL./SQ. YD.)
   - 402-02 BITUMINOUS AGGREGATE FOR COVER MATERIAL (PC) (RATE 8-12 LB./SQ.S.Y.)

3. MINERAL AGGREGATE BASE GRADE "D" @ 8"+ THICK (ROADWAY)
AND FULL DEPTH (SHOULDERS)
   - 303-01 MINERAL AGGREGATE BASE GRADING "D"

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J. EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128085
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION AND PAVEMENT SCHEDULE TEMPORARY RAMPS

TRAFFIC CONTROL PLANS

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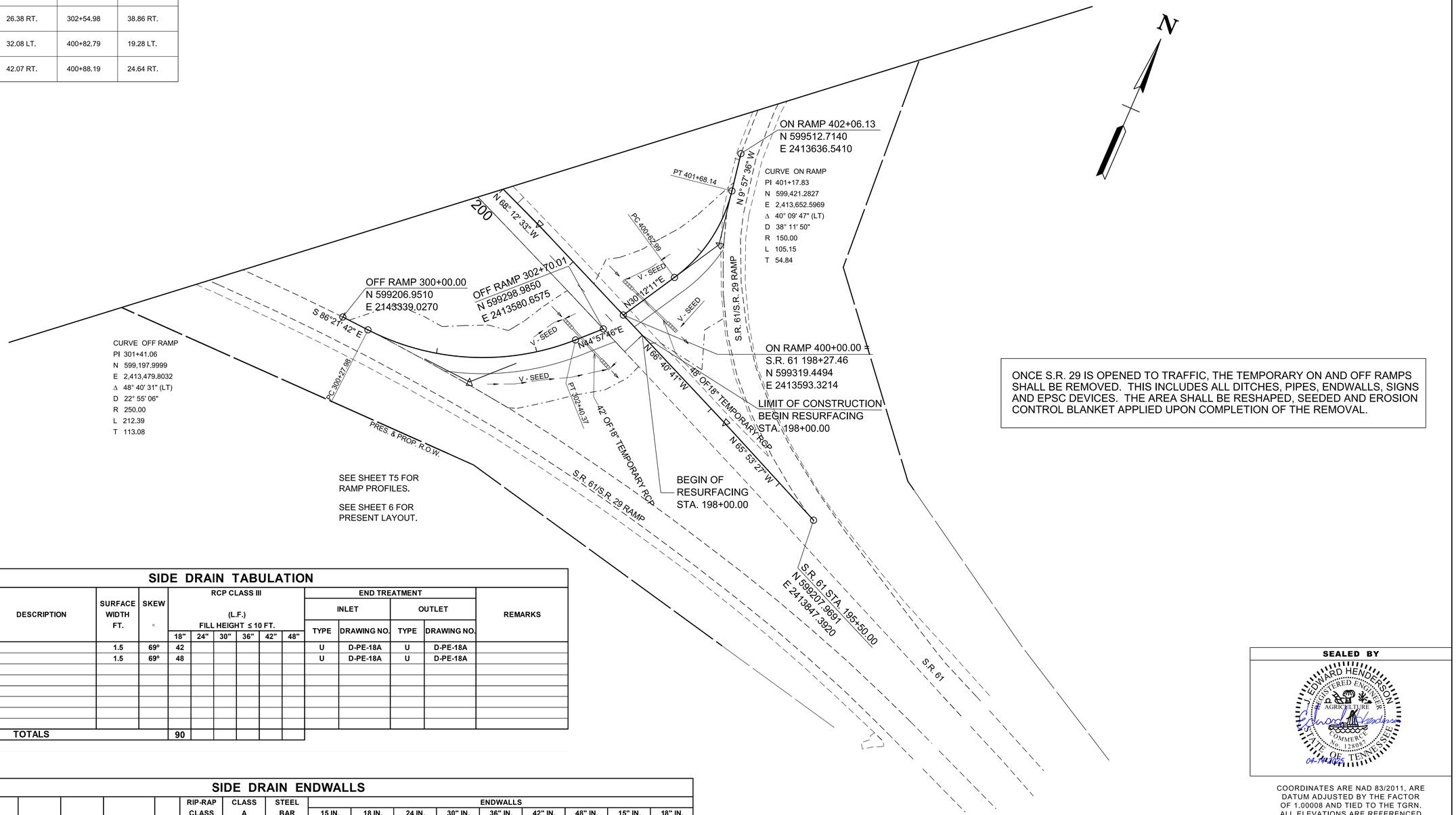
SPECIAL DITCHES				
ROADWAY	BEGIN STATION	OFFSET	END STATION	OFFSET
OFF RAMP	302+00.20	14.66 LT.	302+33.80	21.61 LT.
OFF RAMP	301+51.50	26.38 RT.	302+54.98	38.86 RT.
ON RAMP	400+25.57	32.08 LT.	400+82.79	19.28 LT.
ON RAMP	400+42.46	42.07 RT.	400+88.19	24.64 RT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T4
PIH	2024	BR-NH-29(115)	T4
PS&E	2025	BR-NH-29(115)	T4



SEE SHEET T5 FOR RAMP PROFILES.

SEE SHEET 6 FOR PRESENT LAYOUT.

ONCE S.R. 29 IS OPENED TO TRAFFIC, THE TEMPORARY ON AND OFF RAMPS SHALL BE REMOVED. THIS INCLUDES ALL DITCHES, PIPES, ENDWALLS, SIGNS AND EPSC DEVICES. THE AREA SHALL BE RESHAPED, SEEDED AND EROSION CONTROL BLANKET APPLIED UPON COMPLETION OF THE REMOVAL.

SIDE DRAIN TABULATION

STATION	LOCATION LT.	LOCATION RT.	DESCRIPTION	SURFACE WIDTH FT.	SKEW °	RCP CLASS III (L.F.) FILL HEIGHT ≤ 10 FT. 18"	24"	30"	36"	42"	48"	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	REMARKS
302+46.3	X	X		1.5	69°	42						U	D-PE-18A	U	D-PE-18A	
400+25.3	X	X		1.5	69°	48						U	D-PE-18A	U	D-PE-18A	
TOTALS						90										

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)
302+37.38		23.36 LT	U	D-PE-18A	21°		1.5	137		1							
302+61.23		39.20 RT	U	D-PE-18A	21°		1.5	137		1							
399+67.12		44.41 RT	U	D-PE-18A	10°		1.5	137		1							
399+79.39		27.47 LT	U	D-PE-18A	10°		1.5	137		1							
TOTALS							6.0	548		4							

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COORDINATES ARE NAD 83/2011, ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
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TRAFFIC CONTROL PLANS

SCALE: 1"= 50'

PROPOSED LAYOUT
TEMPORARY RAMPS

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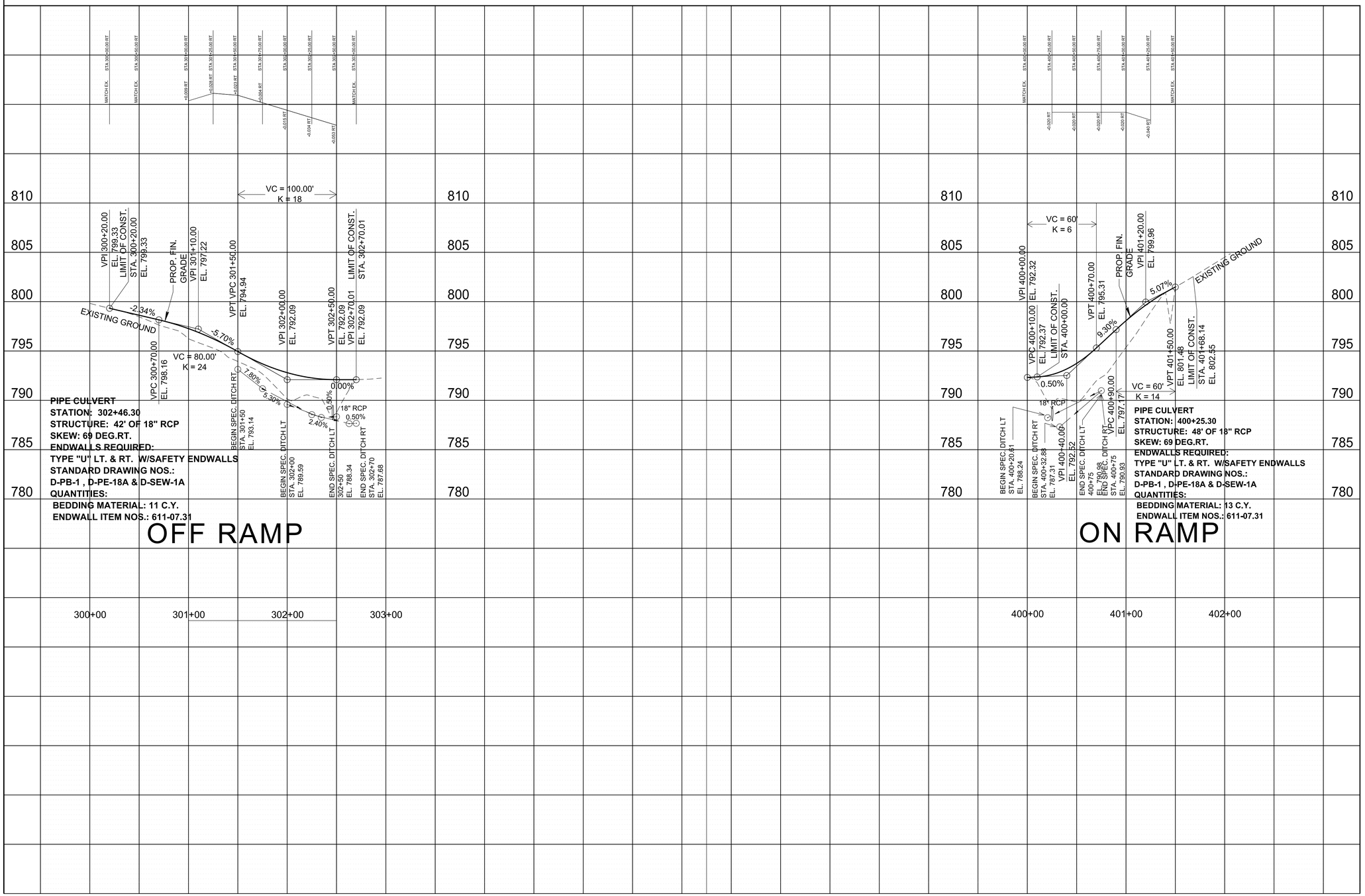
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T5
PIH	2024	BR-NH-29(115)	T5
PS&E	2025	BR-NH-29(115)	T5



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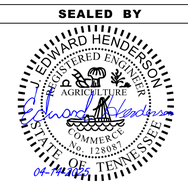

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

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

TEMPORARY RAMP PROFILES

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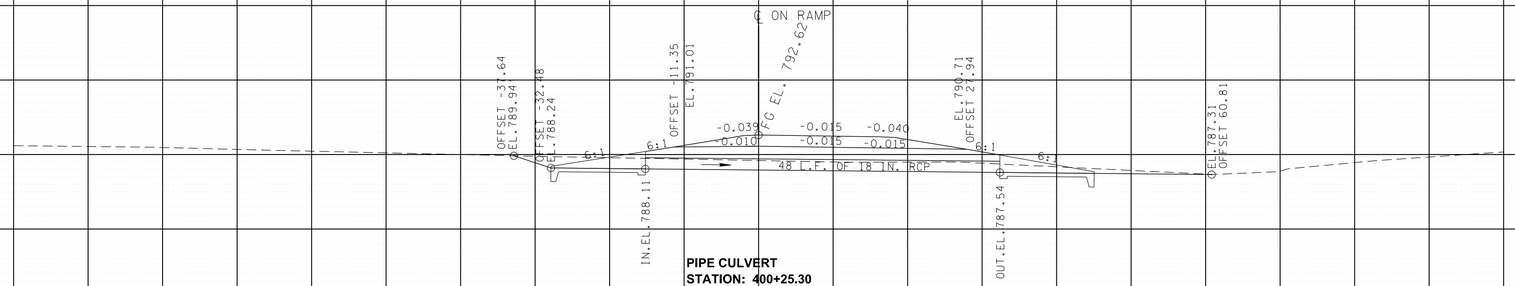
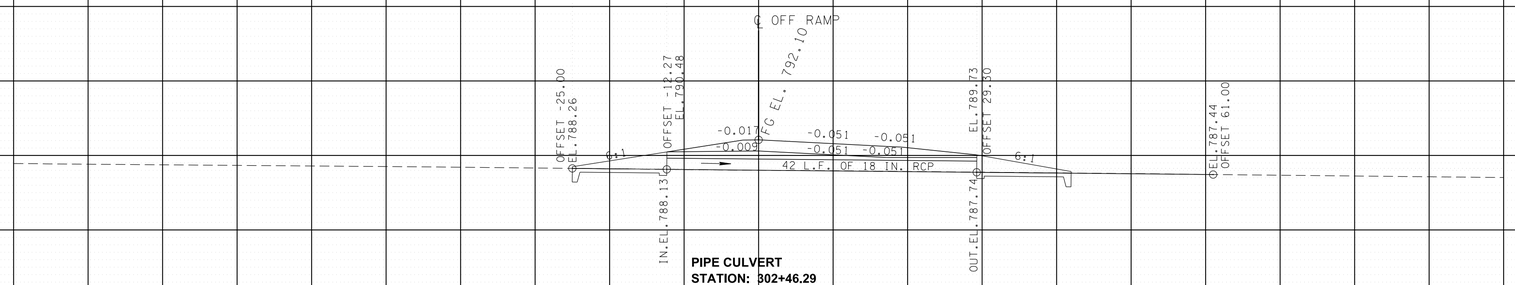
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T6
PIH	2024	BR-NH-29(115)	T6
PS&E	2025	BR-NH-29(115)	T6



PIPE CULVERT
STATION: 400+25.30
STRUCTURE: 48' OF 18" RCP
SKEW: 69 DEG.RT.
ENDWALLS REQUIRED:
TYPE "U" LT. & RT. W/SAFETY ENDWALLS
STANDARD DRAWING NOS.:
D-PB-1 , D-PE-18A & D-SEW-1A
QUANTITIES:
BEDDING MATERIAL: 13 C.Y.
ENDWALL ITEM NOS.: 611-07.31

ON RAMP



PIPE CULVERT
STATION: 302+46.29
STRUCTURE: 42' OF 18" RCP
SKEW: 69 DEG.RT.
ENDWALLS REQUIRED:
TYPE "U" LT. & RT. W/SAFETY ENDWALLS
STANDARD DRAWING NOS.:
D-PB-1 , D-PE-18A & D-SEW-1A
QUANTITIES:
BEDDING MATERIAL: 11 C.Y.
ENDWALL ITEM NOS.: 611-07.31

OFF RAMP

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

0

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EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128851
STATE OF TENNESSEE
04-14-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

TRAFFIC CONTROL PLANS

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

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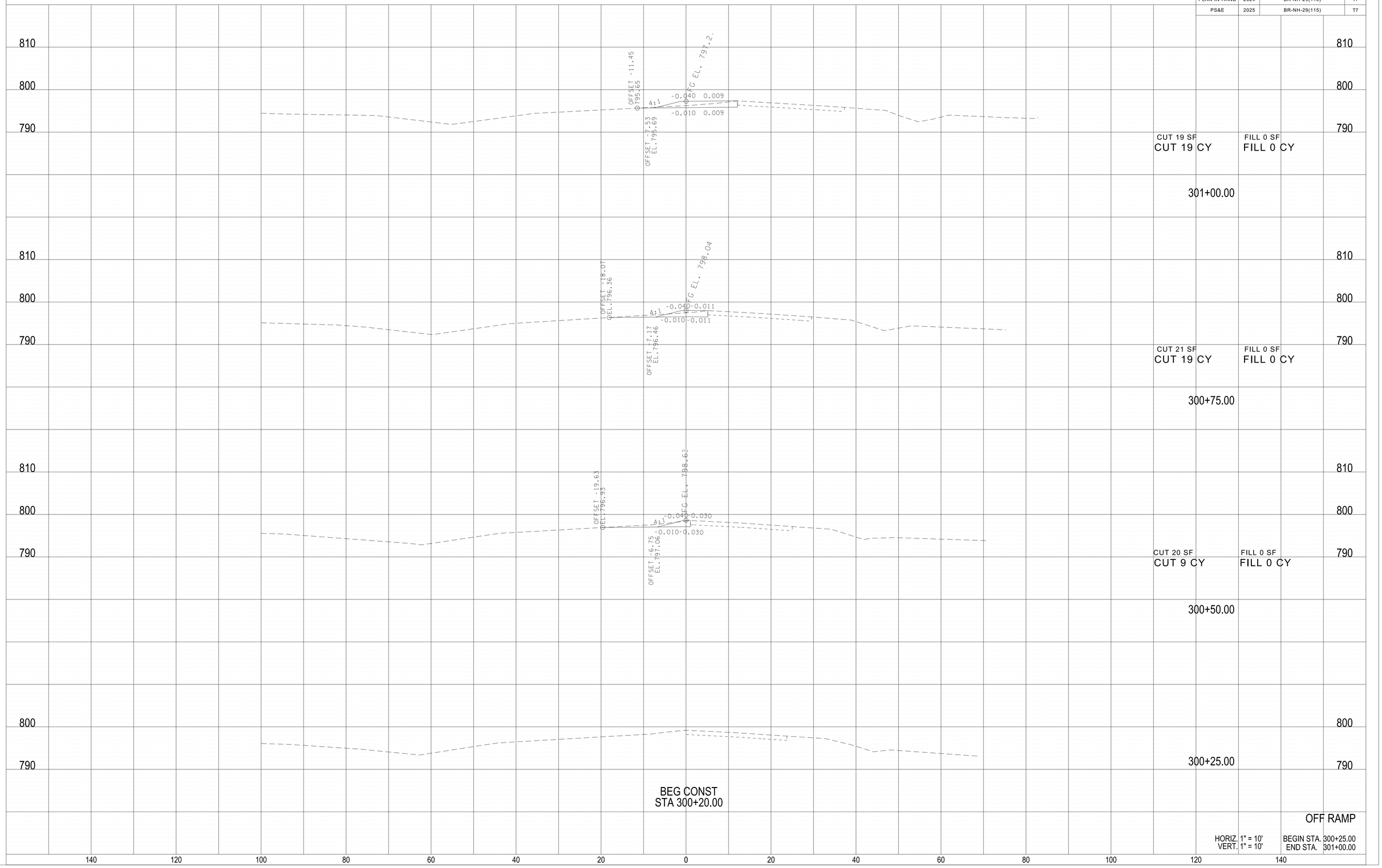
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T7
PLAN-IN-HAND	2024	BR-NH-29(115)	T7
PS&E	2025	BR-NH-29(115)	T7



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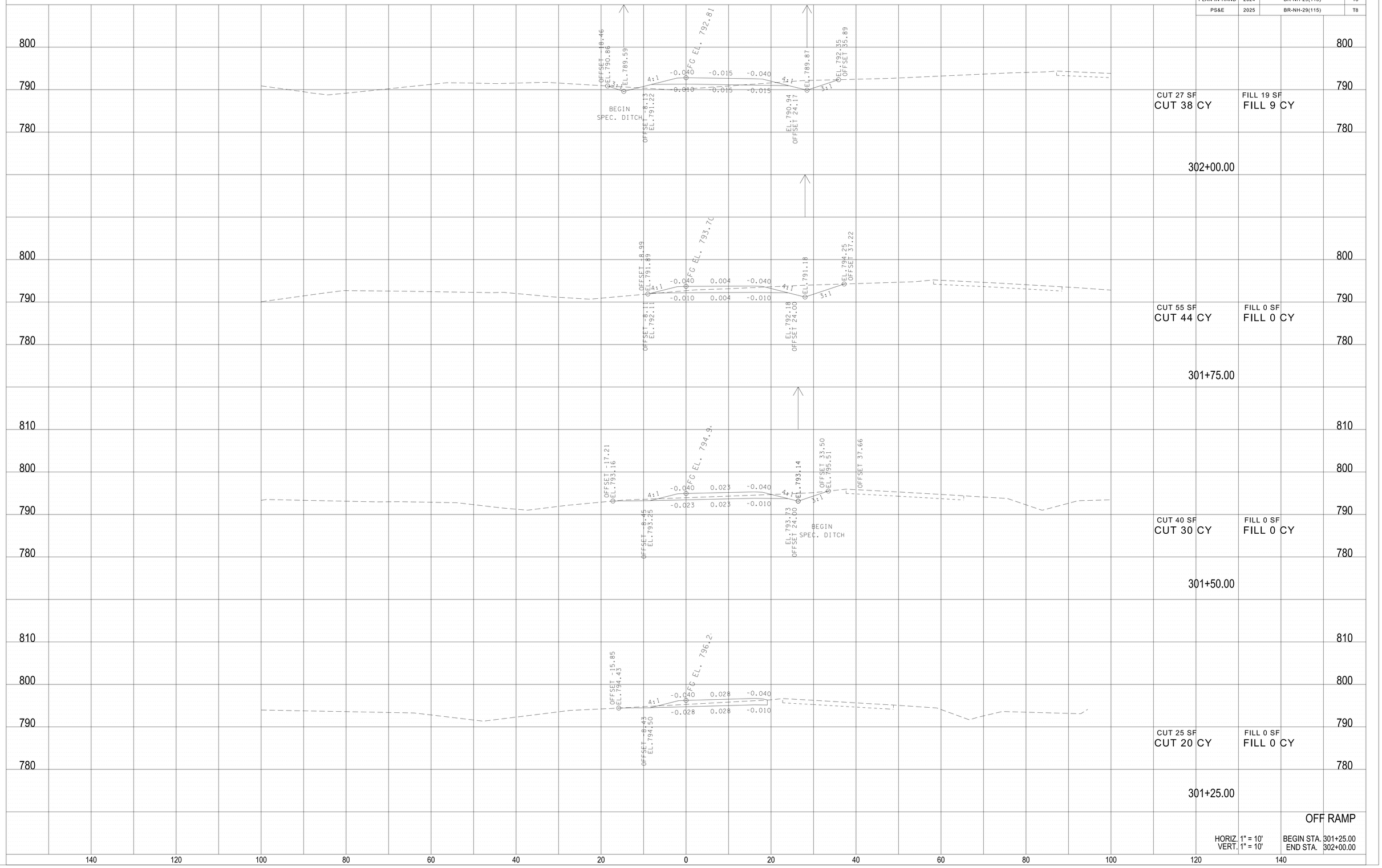
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T8
PLAN-IN-HAND	2024	BR-NH-29(115)	T8
PS&E	2025	BR-NH-29(115)	T8



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T9
PLAN-IN-HAND	2024	BR-NH-29(115)	T9
PS&E	2025	BR-NH-29(115)	T9

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LIMIT OF CONST
STA 302+70.00

EL. 793.10
OFFSET 64.52

EX. EOP
EL. 792.05

-0.068 -0.068 6:1 -0.010 -0.068 -0.040

EL. 788.12

EL. 789.75

EL. 789.30
OFFSET 39.43

END
SPEC. DITCH

CUT 49 SF
CUT 21 CY

FILL 0 SF
FILL 22 CY

302+70.00

EL. 793.49
OFFSET 100.00

OFFSET -33.18
EL. 791.30

EL. 788.34

FG EL. 792.09

-0.017 -0.053 -0.053 6:1 -0.010 -0.053 -0.040

EL. 787.95

EL. 789.44
OFFSET 41.64

OFFSET -8.19
EL. 790.51

EL. 789.20
OFFSET 29.64

END
SPEC. DITCH

CUT 8 SF
CUT 9 CY

FILL 59 SF
FILL 35 CY

302+50.00

OFFSET -27.65
EL. 790.02

EL. 788.63

FG EL. 792.27

-0.036 -0.034 -0.040 5:1 -0.010 -0.034 -0.034

EL. 788.55

EL. 789.56
OFFSET 36.51

OFFSET -9.70
EL. 790.67

EL. 789.86
OFFSET 26.96

CUT 12 SF
CUT 18 CY

FILL 17 SF
FILL 17 CY

302+25.00

OFF RAMP

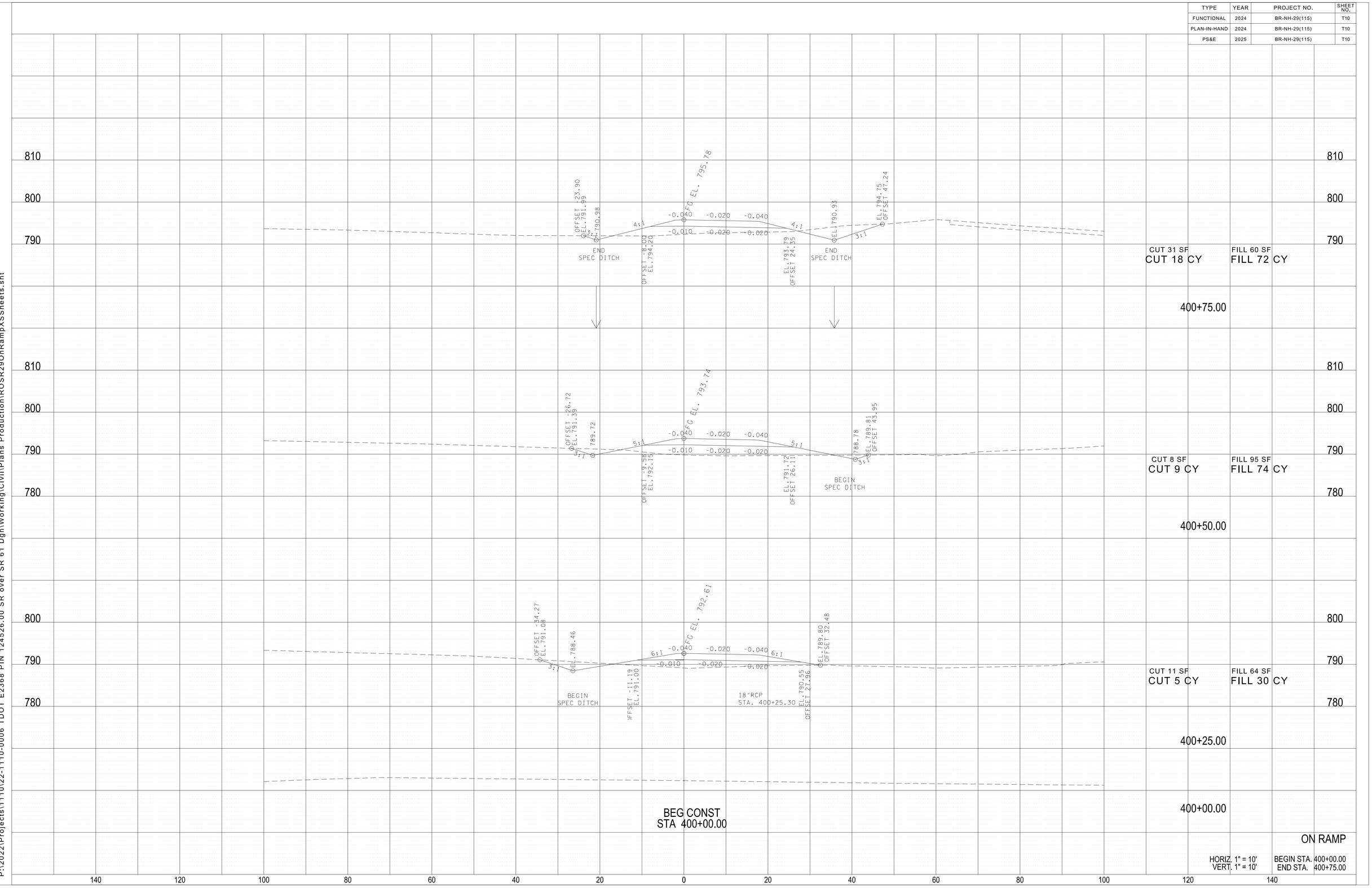
HORIZ. 1" = 10'
VERT. 1" = 10'

BEGIN STA. 302+25.00
END STA. 302+70.01

800
790
780

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T10
PLAN-IN-HAND	2024	BR-NH-29(115)	T10
PS&E	2025	BR-NH-29(115)	T10



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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T11
PLAN-IN-HAND	2024	BR-NH-29(115)	T11
PS&E	2025	BR-NH-29(115)	T11

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LIMIT OF CONST
STA 401+68.14

800

CUT 0 SF
CUT 10 CY

FILL 0 SF
FILL 0 CY

401+50.00

OFFSET -9.61
EL.798.03

OFFSET -8.08
EL.798.41

A:1

-0.030 -0.040
-0.010 -0.040

OFG EL. 799.99

CUT 21 SF
CUT 12 CY

FILL 0 SF
FILL 13 CY

401+25.00

OFFSET -17.27
EL.794.17

OFFSET -18.08
EL.796.49

A:1

-0.040 -0.020 -0.040
-0.010 -0.020 -0.020

OFG EL. 798.07

CUT 4 SF
CUT 16 CY

FILL 27 SF
FILL 40 CY

401+00.00

ON RAMP

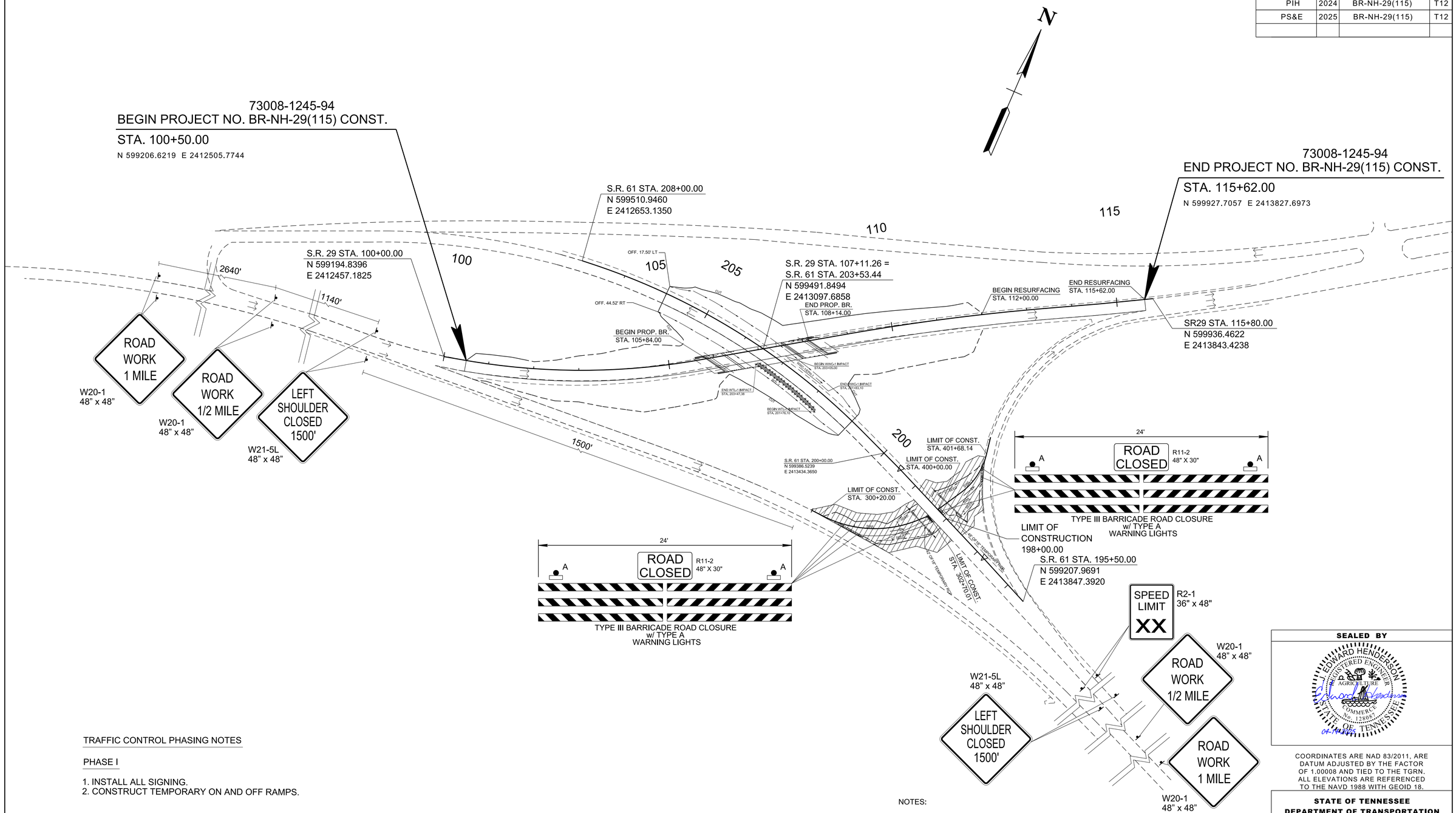
HORIZ. 1" = 10'
VERT. 1" = 10'

BEGIN STA. 401+00.00
END STA. 401+50.00

810
800
790

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	
PIH	2024	BR-NH-29(115)	T12
PS&E	2025	BR-NH-29(115)	T12



TRAFFIC CONTROL PHASING NOTES

PHASE I

1. INSTALL ALL SIGNING.
2. CONSTRUCT TEMPORARY ON AND OFF RAMPS.

NOTES:

1. TRAFFIC CONTROL DEVICE SYMBOLS ARE ENLARGED FOR CLARITY.
2. SEE STANDARD DRAWINGS T-WZ-10 AND T-M-9 FOR MORE DETAILS.
3. DETOUR SIGNS AND ROUTE WILL BE INSTALLED AND MAINTAINED BY THE STATE.

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
SUMMERS
NO. 128851
STATE OF TENNESSEE
04-14-2025

COORDINATES ARE NAD 83/2011, ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS PHASE I

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	T12
PIH	2024	BR-NH-29(115)	T13
PS&E	2025	BR-NH-29(115)	T13

73008-1245-94
BEGIN PROJECT NO. BR-NH-29(115) CONST.
STA. 100+50.00
N 599206.6219 E 2412505.7744

73008-1245-94
END PROJECT NO. BR-NH-29(115) CONST.
STA. 115+62.00
N 599927.7057 E 2413827.6973

S.R. 61 STA. 208+00.00
N 599510.9460
E 2412653.1350

S.R. 29 STA. 100+00.00
N 599194.8396
E 2412457.1825

S.R. 29 STA. 107+11.26 =
S.R. 61 STA. 203+53.44
N 599491.8494
E 2413097.6858

SR29 STA. 115+80.00
N 599936.4622
E 2413843.4238

S.R. 61 STA. 195+50.00
N 599207.9691
E 2413847.3920

CHANGEABLE MESSAGE BOARD

END ROAD WORK
G20-2
36" X 18"

BEGIN PROP. BR. STA. 105+84.00
END PROP. BR. STA. 108+14.00
BEGIN RESURFACING STA. 112+00.00
END RESURFACING STA. 115+62.00

100 105 110 115 200 205

500' 2600' 1600' 1000' 100' 500'

D3-1 30" x 12" S.R. 29
W20-2M 48" x 48"
DETOUR 1 MILE

D3-1 30" x 12" S.R. 29
W20-2M 48" x 48"
DETOUR 1/2 MILE

D3-1 30" x 12" S.R. 29
W20-2F 48" x 48"
DETOUR 1000 FT

D3-1 30" x 12" S.R. 29
DETOUR
M4-9MOD 30" x 24"

END DETOUR
M4-8a 30" x 15"

R5-1 30" x 30"
DO NOT ENTER

R5-1a 42" x 30"
WRONG WAY

SPEED LIMIT 35
R2-1 36" x 48"

YIELD
R1-2 48" x 48" x 48"

D3-1 30" x 12" S.R. 29
DETOUR
M4-9MOD 30" x 24"
R3-1 24" x 24"

D3-1 30" x 12" S.R. 29
DETOUR
M4-9L 30" x 24"
W13-1P 18"X18"
15 M P H

D3-1 30" x 12" S.R. 29
DETOUR
M4-9L 30" x 24"
W13-1P 18"X18"
15 M P H

W3-1S 30"X30"

STOP
R1-1 36" x 36"

D3-1 30" x 12" S.R. 29
DETOUR
M4-9 30" x 24"
R3-1 24" x 24"

LIMIT OF CONSTRUCTION 198+00.00
W4-1 36" x 36"

SPEED LIMIT 35
R2-1 36" x 48"

W20-1M 48" x 48"
ROAD WORK 1/2 MILE

ROAD WORK 1000 FT
W20-1F 48" x 48"

ROAD WORK 1 MILE
W20-1M 48" x 48"

LIMIT OF CONST. STA. 400+68.14
LIMIT OF CONST. STA. 400+00.00
45' OF 18" TEMPORARY RCP
LIMIT OF CONST. STA. 300+20.00
45' OF 18" TEMPORARY RCP
LIMIT OF CONST. STA. 302+70.01
SSYL
SSWL

24'
A ROAD CLOSED R11-2 48" X 30" A
TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS

24'
A ROAD CLOSED R11-2 48" X 30" A
TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS

TRAFFIC CONTROL PHASING NOTES

PHASE II

1. INSTALL ALL SIGNING.

2. CLOSE S.R. 29 AND OPEN TEMPORARY ON AND OFF RAMPS.

3. CONSTRUCT DITCHES ON S.R. 61. CLOSE LANE ADJACENT TO WORK AND MAINTAIN AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES.

NOTES:

1. TRAFFIC CONTROL DEVICE SYMBOLS ARE ENLARGED FOR CLARITY.

2. SEE STANDARD DRAWINGS T-WZ-10 AND T-M-9 FOR MORE DETAILS.

3. DETOUR SIGNS AND ROUTE WILL BE INSTALLED AND MAINTAINED BY THE STATE.

SEALED BY

EDWARD HENDERSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 128084
STATE OF TENNESSEE
04-14-2025

COORDINATES ARE NAD 83/2011, ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS PHASE II

SCALE: 1"=100'

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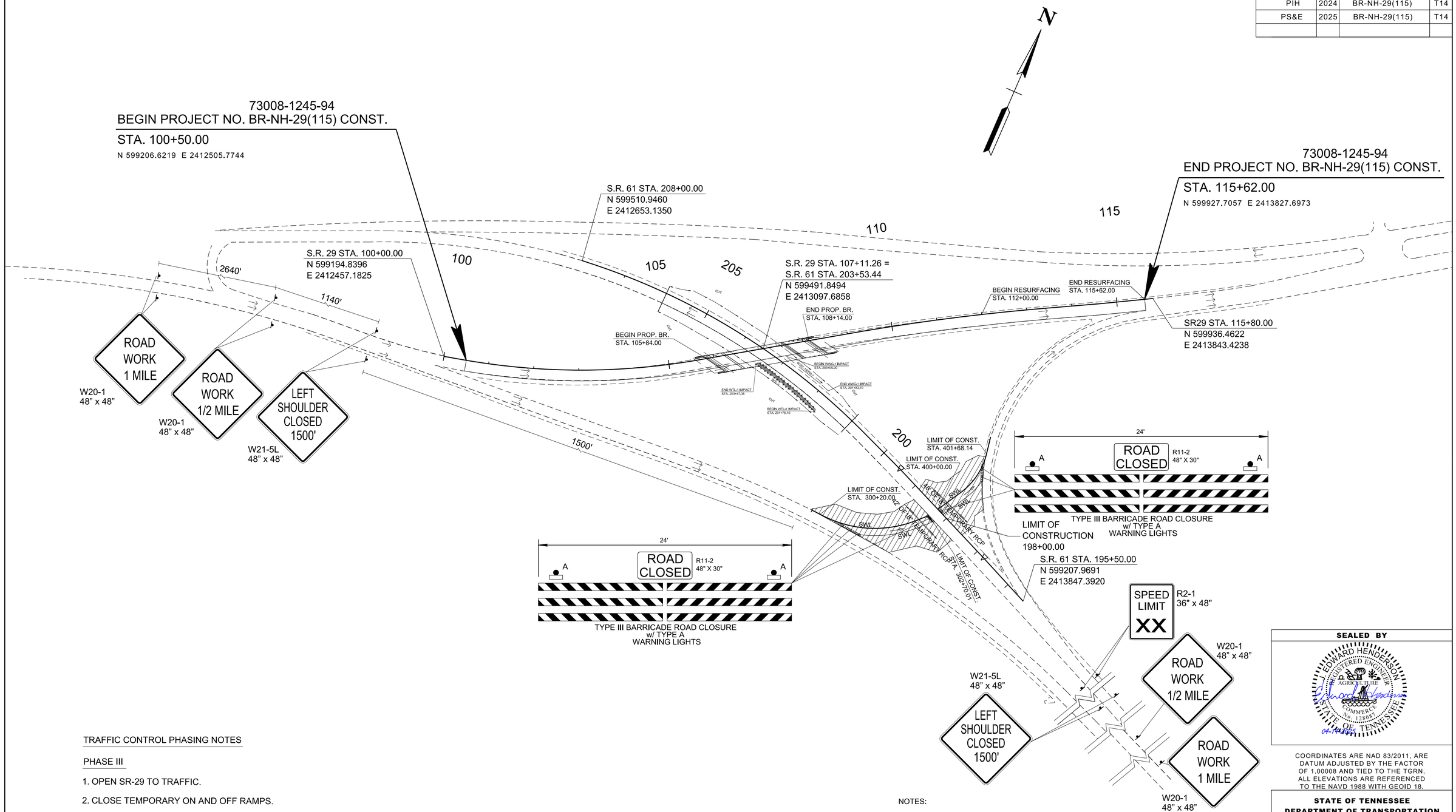
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2024	BR-NH-29(115)	
PIH	2024	BR-NH-29(115)	T14
PS&E	2025	BR-NH-29(115)	T14



TRAFFIC CONTROL PHASING NOTES

PHASE III

1. OPEN SR-29 TO TRAFFIC.

2. CLOSE TEMPORARY ON AND OFF RAMPS.

3. REMOVE TEMPORARY ON AND OFF RAMPS INCLUDING ALL DITCHES, PIPES, ENDWALLS, SIGNS AND EPSC DEVICES. THE AREA SHALL BE RESHAPED, SEEDED AND EROSION CONTROL BLANKET APPLIED UPON COMPLETION OF THE REMOVAL.

NOTES:

1. TRAFFIC CONTROL DEVICE SYMBOLS ARE ENLARGED FOR CLARITY.

2. SEE STANDARD DRAWINGS T-WZ-10 AND T-M-9 FOR MORE DETAILS.

3. DETOUR SIGNS AND ROUTE WILL BE INSTALLED AND MAINTAINED BY THE STATE.

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EDWARD HENDERSON
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No. 128084
STATE OF TENNESSEE
04-14-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS PHASE III

SCALE: 1"=100'

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jonathan Shoulders 2025.04.09 13:42:27 -05'00'

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

TENNESSEE DEPARTMENT OF TRANSPORTATION
JAMES K. POLK BUILDING, SUITE 1100
505 DEADERICK STREET
NASHVILLE, TN 37243
JONATHAN B. SHOULDERS, P.E. NO. 116976

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	STRUCTURE-SIGN1
INDEX OF DRAWINGS	U-94-717
LAYOUT OF BRIDGE	U-94-718
GENERAL NOTES AND ESTIMATED QUANTITIES	U-94-719
SUPERSTRUCTURE	U-94-722
SUPERSTRUCTURE DETAILS	U-94-723
SUPERSTRUCTURE DETAILS	U-94-724
SUPERSTRUCTURE DETAILS	U-94-725
SUPERSTRUCTURE DETAILS	U-94-726
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 1	U-94-727
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 2	U-94-728
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 3	U-94-729
ABUTMENT NO. 1	U-94-730
ABUTMENT NO. 1 DETAILS	U-94-731
ABUTMENT NO. 2	U-94-732
ABUTMENT NO. 2 DETAILS	U-94-733
BENT NO. 1	U-94-734
BENT NO. 2	U-94-735
BENT NOS. 1 & 2 DETAILS	U-94-736
BILL OF STEEL	U-94-739
BILL OF STEEL	U-94-740

YEAR	PROJECT NO.	SHEET NO.
2025	BR-NH-29(115)	STRUCTURE-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	B-1

REVISIONS

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

LIST OF DRAWINGS	DWG. NO.		LAST REV. DATE
SIGNATURE SHEET	STRUCTURE-SIGN1		
INDEX OF DRAWINGS	U-94-717		
LAYOUT OF BRIDGE	U-94-718		
GENERAL NOTES AND ESTIMATED QUANTITIES	U-94-719		
FOUNDATION DATA	U-94-720		
FOUNDATION DATA	U-94-721		
SUPERSTRUCTURE	U-94-722		
SUPERSTRUCTURE DETAILS	U-94-723		
SUPERSTRUCTURE DETAILS	U-94-724		
SUPERSTRUCTURE DETAILS	U-94-725		
SUPERSTRUCTURE DETAILS	U-94-726		
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 1	U-94-727		
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 2	U-94-728		
PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 3	U-94-729		
ABUTMENT NO. 1	U-94-730		
ABUTMENT NO. 1 DETAILS	U-94-731		
ABUTMENT NO. 2	U-94-732		
ABUTMENT NO. 2 DETAILS	U-94-733		
BENT NO. 1	U-94-734		
BENT NO. 2	U-94-735		
BENT NOS. 1 AND 2 DETAILS	U-94-736		
FINAL FOUNDATION DATA	U-94-737		
FINAL FOUNDATION DATA	U-94-738		
BILL OF STEEL	U-94-739		
BILL OF STEEL	U-94-740		

LIST OF STANDARD DRAWINGS	DWG. NO.		LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET	STD-1-1SS		07-24-24
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET & BRIDGE DECK DRAIN DETAILS	STD-1-2SS		05-31-24
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5		06-05-23
STANDARD PILE DETAILS	STD-5-1		
STANDARD SEISMIC DETAILS	STD-6-1		12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6		10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1		10-07-08
MISCELLANEOUS ABUTMENT & DRAINAGE DETAILS	STD-10-1		06-05-23
MISC. ABUTMENT & PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2		06-05-23
STANDARD FLUME DETAILS	STD-10-3		01-10-24
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR BULB-TEE AND WIDE BULB-TEE BEAMS	STD-14-1		06-05-23
SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION	RD11-SA-1		01-09-24

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-717

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: F. BARTON DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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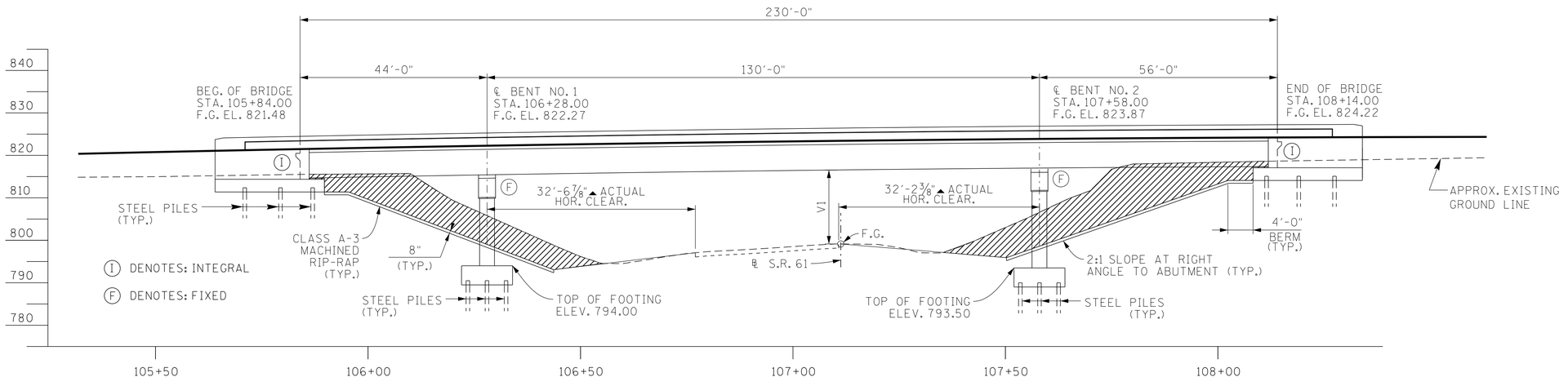
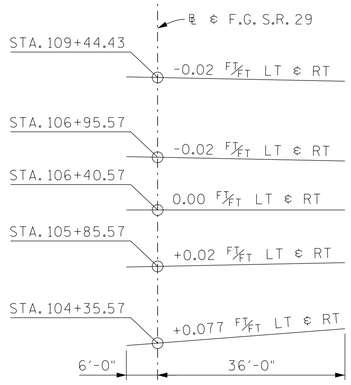


▨ DENOTES: EXCAVATION TO BE INCLUDED IN ROADWAY QUANTITIES

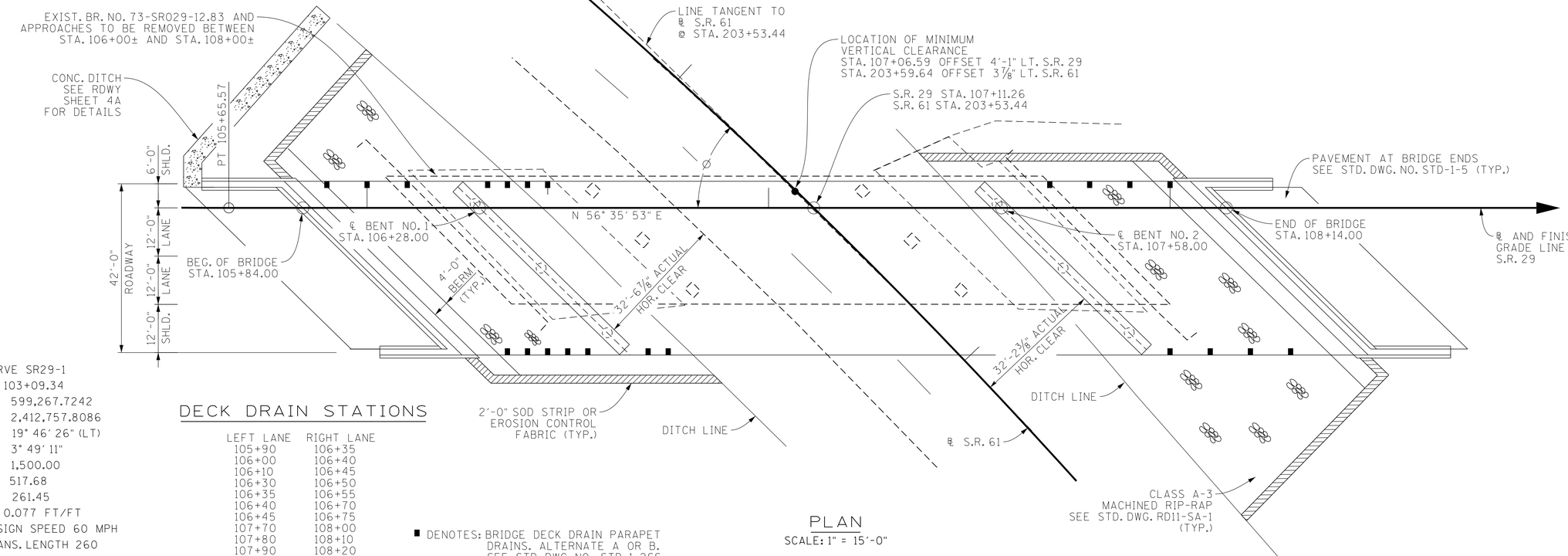
▲ DENOTES: HORIZONTAL DISTANCE PERPENDICULAR TO S.R. 61

V1 DENOTES: MINIMUM VERTICAL CLEARANCE 17'-3¾" (ALL S.R. 61 ELEVATIONS ARE BASED ON THE EXISTING ROAD)

ELEVATION
SCALE: 1" = 15'-0"

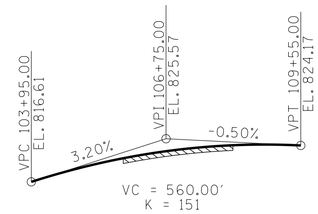


TRANSITION SKETCH



PLAN
SCALE: 1" = 15'-0"

Ø DENOTES: 44°18' 15" TO TANGENT (TYP. ALL SUBSTRUCTURES)



GRADE SKETCH
S.R. 29

CURVE SR29-1
PI 103+09.34
N 599,267.7242
E 2,412,757.8086
Δ 19° 46' 26" (LT)
D 3° 49' 11"
R 1,500.00
L 517.68
T 261.45
SE 0.077 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 260

DECK DRAIN STATIONS

LEFT LANE	RIGHT LANE
105+90	106+35
106+00	106+40
106+10	106+45
106+30	106+50
106+35	106+55
106+40	106+70
106+45	106+75
107+70	108+00
107+80	108+10
107+90	108+20
108+00	108+30

■ DENOTES: BRIDGE DECK DRAIN PARAPET DRAINS. ALTERNATE A OR B. SEE STD. DWG. NO. STD-1-2SS FOR DETAILS.

PIN NO.: 124526.00

DESIGN BY:	JIALI CONG	DATE: 10-2024
DRAWN BY:	F. BARTON	DATE: 10-2024
SUPERVISED BY:	JS/GWK	DATE: 10-2024
CHECKED BY:	ADRIAN BENNETT	DATE: 02-2025

SEALED BY

JONATHAN B. SHOULDERS REGISTERED ENGINEER STATE OF TENNESSEE 119403 DEPARTMENT OF TRANSPORTATION
03/27/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-718

CORRECT
ENGINEER OF STRUCTURES

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GENERAL NOTES

SPECIFICATIONS & LOADING

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

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

LOADING:

A. HL-93 LIVE LOADING
B. SEISMIC DESIGN CATEGORY "A" WITH A_S= 0.148, S_{DS}=0.284, S_{D1}=0.115, (1000 YEAR RETURN PERIOD).
C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

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

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

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

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS 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-14-1 AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

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

FOUNDATION ELEMENTS

END-BEARING STEEL PILES AT BENTS: FOUNDATIONS FOR BENTS SHALL BE EXCAVATED TO THE BOTTOM OF FOOTING ELEVATIONS SHOWN. ROD SOUNDINGS SHALL THEN BE MADE AS DIRECTED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES WILL DECIDE IF PILES WILL BE USED OR THE FOOTINGS LOWERED TO ROCK. COST OF ROD SOUNDINGS TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO REINFORCING STEEL FOR BENT COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

END-BEARING STEEL PILES: TO BE HP 10x42 STEEL PILE DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 110 TONS FOR THE BENTS AND 110 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

PRECAST SUPERSTRUCTURES

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

MISCELLANEOUS GENERAL NOTES

SHOP DRAWINGS: SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

PARAPET SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWING STD-1-1SS. 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.

MACHINED RIP-RAP: MACHINED RIP-RAP FOR SLOPE PROTECTION SHALL BE 2" TO 6" IN SIZE UNIFORMLY GRADED AND MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.05.

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

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

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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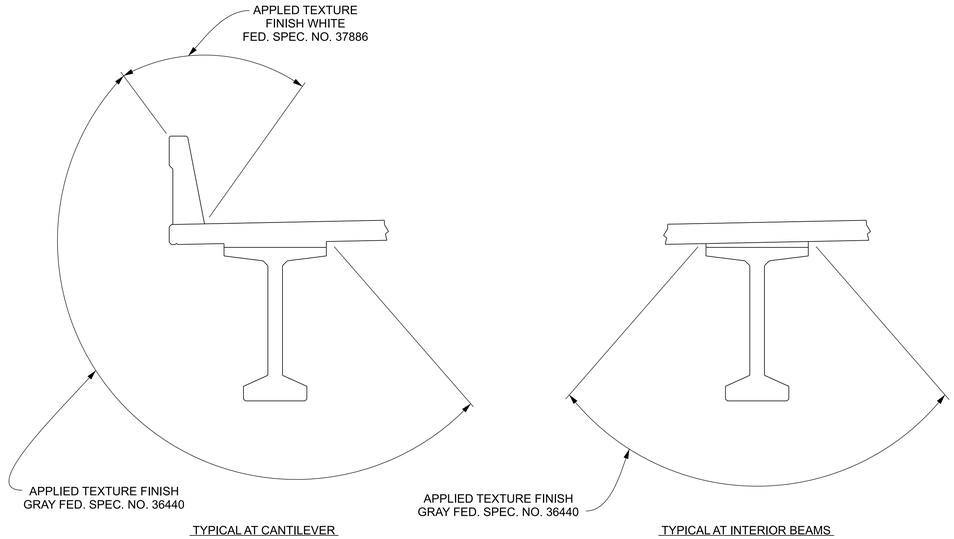


APPLIED TEXTURE FINISH SKETCH

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

ESTIMATED QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	BENT NO.1	BENT NO.2	ABUT. NO. 2
(2)	202-04.01	REMOVAL OF STRUCTURES (EXIST. BR. NO. 73-SR029-12.83)	L.S.	1					
(3)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	682		150	188	193	151
(9)	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	40		20			20
	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	98,332	92,928	2,702			2,702
(8)	604-03.01	CLASS "A" CONCRETE (BRIDGES)	C.Y.	449		93	130	132	94
	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	80,290	3,310	8,717	29,568	29,945	8,750
(1)	604-03.04	PAVEMENT AT BRIDGE ENDS	S.Y.	218					
	604-03.09	CLASS "D" CONCRETE (BRIDGE DECK)	C.Y.	319	319				
	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	3,356	2,759	132	163	170	132
	604-04.41	THREE STAR STATE EMBLEM	EA.	4			2	2	
	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1,044					
	606-02.03	STEEL PILES (10 INCH)	L.F.	2,281		559	554	540	628
(5)	615-01.12	PRESTRESSED CONCRETE BULB TEE BEAM (6" WEB) (BT-72)	L.F.	1,103					
(10)	620-05.01	CONCRETE PARAPET SINGLE SLOPE (STD-1-1SS)	L.F.	536					
(7)	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	173		86			86
	710-09.02	6" PIPE UNDERDRAIN	L.F.	40		20			20

ESTIMATED QUANTITIES NOTES

(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 EXISTING BRIDGE 73-SR029-12.83 CONSISTS OF 3 SPAN CONTINUOUS TEE BEAM BRIDGE WITH CONCRETE DECK, THREE POST CONCRETE BENTS, AND STUB ABUTMENTS. LENGTH=164'-0"±, WIDTH=34'-5"±

(3) **NOTE:** EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT BENTS.

(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.

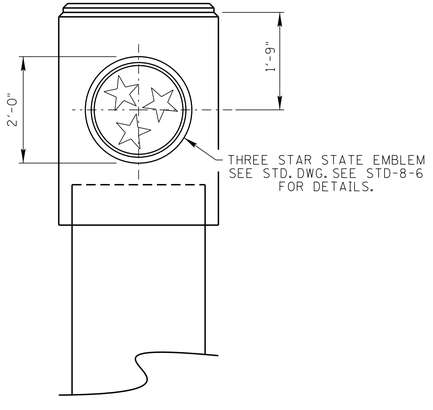
(6) **NOTE:** INTERMEDIATE DIAPHRAGMS SHALL BE PAID FOR IN ACCORDANCE WITH STANDARD DRAWING STD-14-1.

(7) **NOTE:** COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.

(8) **NOTE:** THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 30 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE (BRIDGES), ITEM NO. 604-03.01.

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

(10) **NOTE:** COST OF 22 BRIDGE PARAPET DRAINS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PARAPET.



BENT TREATMENT
(END ELEVATION)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND ESTIMATED QUANTITIES
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-719

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: RODNEY CHANDLER DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

3/27/2025 2:27:06 PM
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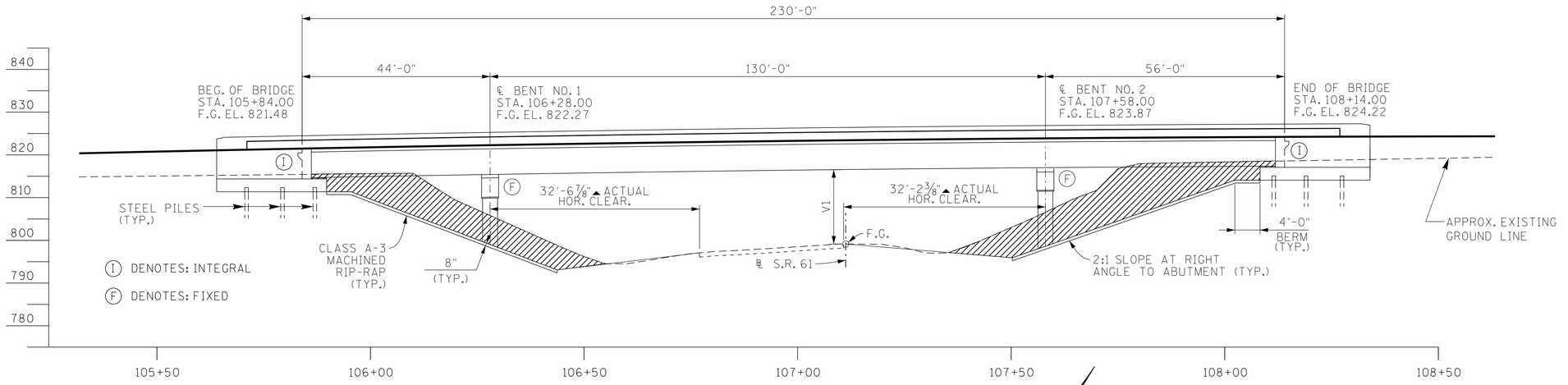
CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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

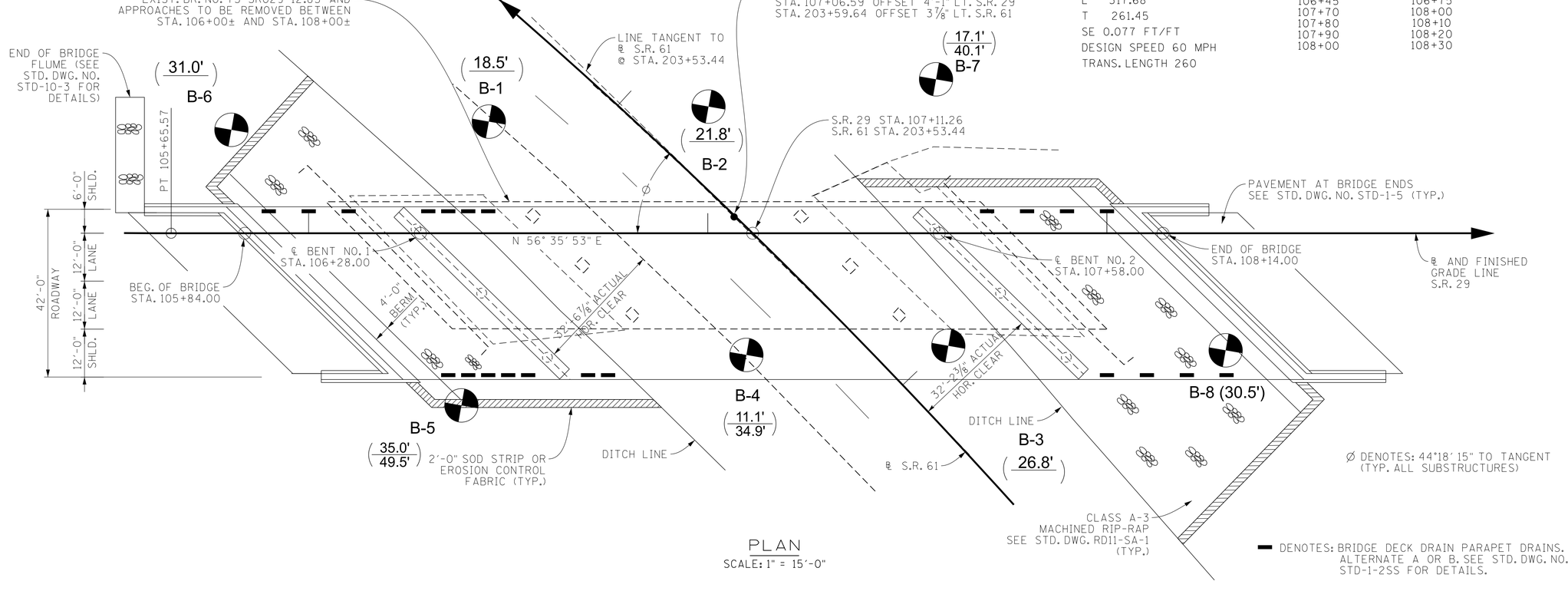


ELEVATION
SCALE: 1" = 15'-0"

▨ DENOTES: EXCAVATION TO BE INCLUDED IN ROADWAY QUANTITIES

▲ DENOTES: HORIZONTAL DISTANCE PERPENDICULAR TO S.R. 61

V1 DENOTES: MINIMUM VERTICAL CLEARANCE 17'-3¾" (ALL S.R. 61 ELEVATIONS ARE BASED ON THE EXISTING ROAD)



PLAN
SCALE: 1" = 15'-0"

CURVE SR29-1
PI 103+09.34
N 599,267.7242
E 2,412,757.8086
Δ 19° 46' 26" (LT)
D 3° 49' 11"
R 1,500.00
L 517.68
T 261.45
SE 0.077 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 260

DECK DRAIN STATIONS

LEFT OF ℄	RIGHT OF ℄
105+90	106+35
106+00	106+40
106+10	106+45
106+30	106+50
106+35	106+55
106+40	106+70
106+45	106+75
107+70	108+00
107+80	108+10
107+90	108+20
108+00	108+30

▬ DENOTES: BRIDGE DECK DRAIN PARAPET DRAINS. ALTERNATE A OR B. SEE STD. DWG. NO. STD-1-2SS FOR DETAILS.

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: F. BARTON DATE: 02-2025
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-720

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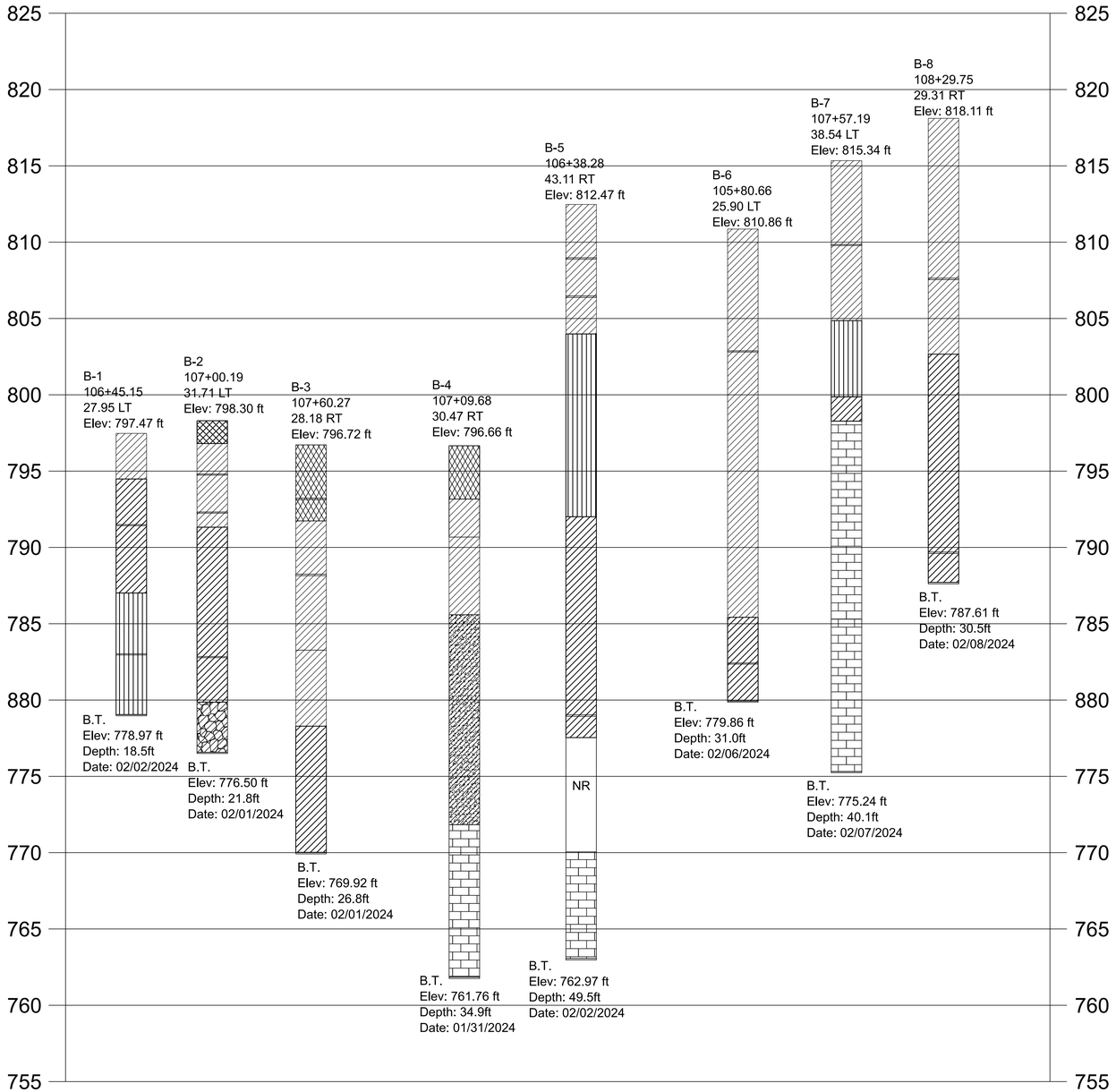

LEGEND

- LEAN CLAY
- FAT CLAY
- ELASTIC SILT
- CLAYEY GRAVEL
- GRAVEL /ASPHALT
- LEAN CLAY WITH GRAVEL AND ASPHALT
- CLAYEY SAND
- LIMESTONE

TYPE MATERIAL - SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T. = BORING TERMINATED

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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

7.0 BORING LOGS DATA

BORING	STATION	OFFSET	ELEVATION	AUGER REFUSAL DEPTH	TOP OF ROCK ELEVATION
B-1	106+45.15	28 FT	797.47'	18.5 FT	
B-2	107+00.19	32 FT	798.30'	21.8 FT	
B-3	107+60.27	29 FT	796.72'	26.8 FT	
B-4	107+09.68	31 FT	796.66'	11.1 FT	771.8
B-5	106+38.28	44 FT	812.47'	35 FT	770.0
B-6	105+80.66	26 FT	810.86'	31 FT	
B-7	107+57.19	39 FT	815.34'	17.1 FT	798.2
B-8	108+29.75	30 FT	818.11'	No auger refusal up to 30.5 FT	

NOTE:
AUGER REFUSAL TYPICALLY INDICATES THE TOP OF THE ROCK; HOWEVER, ROCK CORING WAS PERFORMED ONLY IN B4, B5, AND B7.

PIN NO.: 124526.00
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CHECKED BY: ADRIAN BENNTT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-721

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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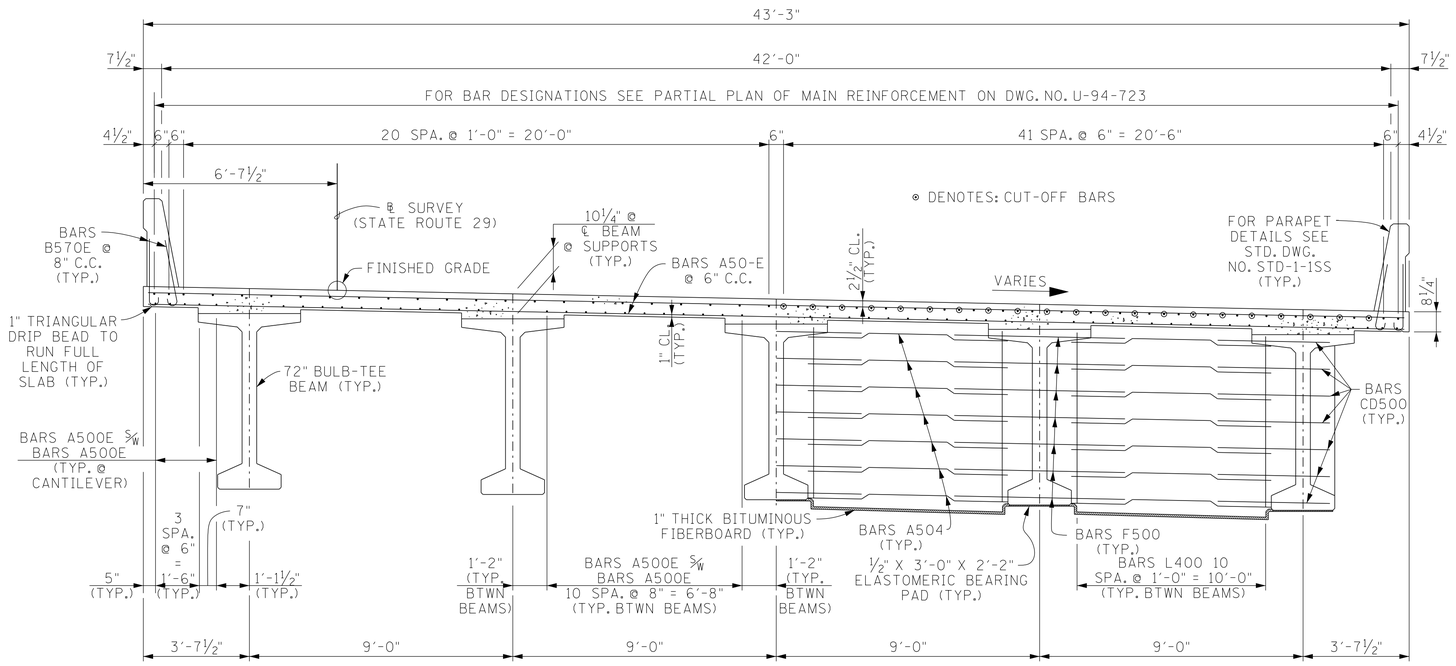


HALF-SECTION NEAR MID-SPAN

HALF-SECTION NEAR SUPPORT

TYPICAL CROSS-SECTION

(LOOKING FORWARD ON SURVEY)

SUPERSTRUCTURE NOTES

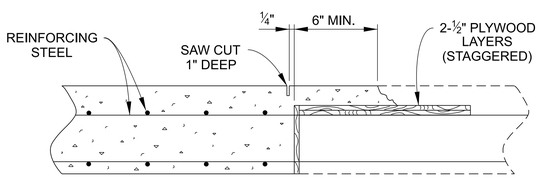
NOTE: NO PORTION OF THE PARAPETS SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

ANCHOR BOLTS AT BENTS: ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.

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

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 BOTH THE TEMPORARY ERECTION DIAPHRAGMS AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE INSTALLED PRIOR TO PLACING ANY LOADS ON THE BEAMS, IT IS REQUIRED THAT ALL TEMPORARY ERECTION DIAPHRAGMS AND ALL PERMANENT INTERMEDIATE DIAPHRAGMS IN A SPAN BE FULLY INSTALLED PRIOR TO POURING ANY PORTION OF THE SLAB IN THAT SPAN.

NOTE: THE SUPPORT DIAPHRAGMS AT THE BENTS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DIAPHRAGMS SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. THE BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE REMAINDER OF THE SUPPORT DIAPHRAGMS AND DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS D CONCRETE.

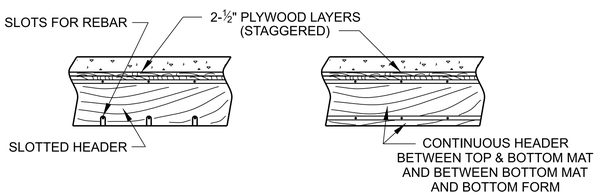


SLAB CONSTRUCTION JOINT DETAIL

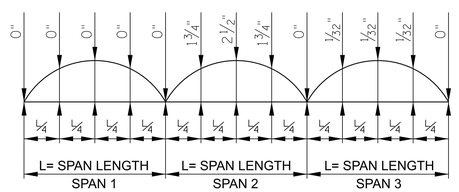
(N.T.S.)

DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING:

1. NO CONSTRUCTION JOINT SHALL BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN INTERIOR SUPPORT.
2. THE SLAB IN THE MIDDLE SECTION OF BOTH ADJACENT SPANS MUST BE POURED TO WITHIN AT LEAST 15 FEET OF THE SUPPORTS EITHER PRIOR TO OR CONCURRENTLY WITH THE SLAB OVER AN INTERIOR SUPPORT.
3. ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ABOVE.



ALTERNATE HEADER DETAILS



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.

PRESTRESSED DECK PANELS ARE NOT ALLOWED. BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE REMAIN-IN-PLACE STEEL.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-722

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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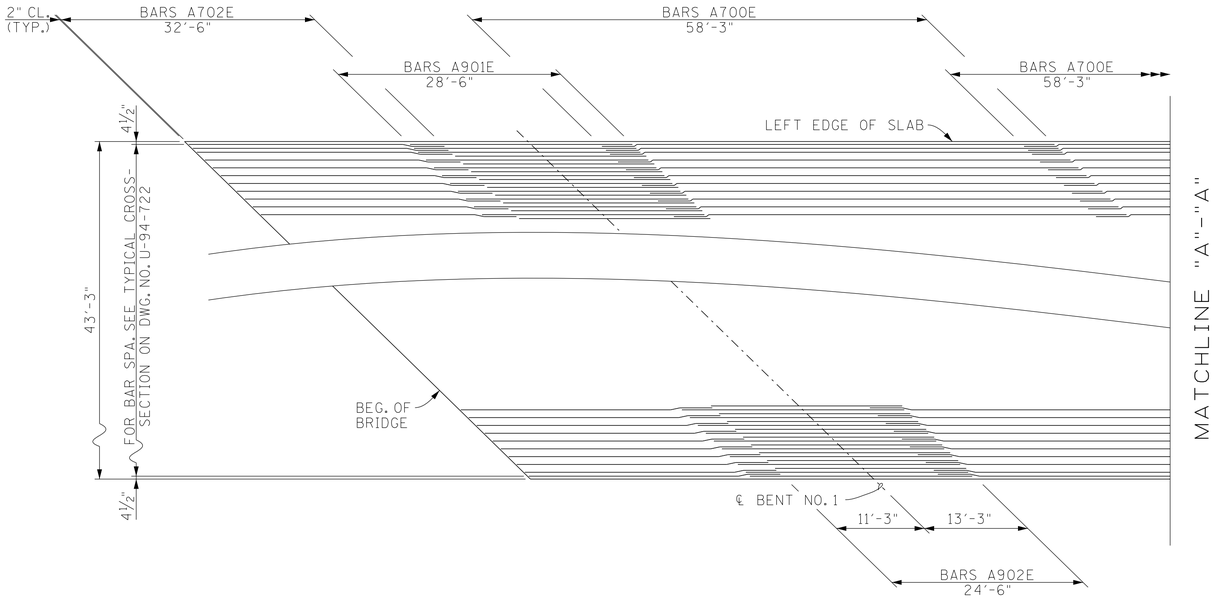

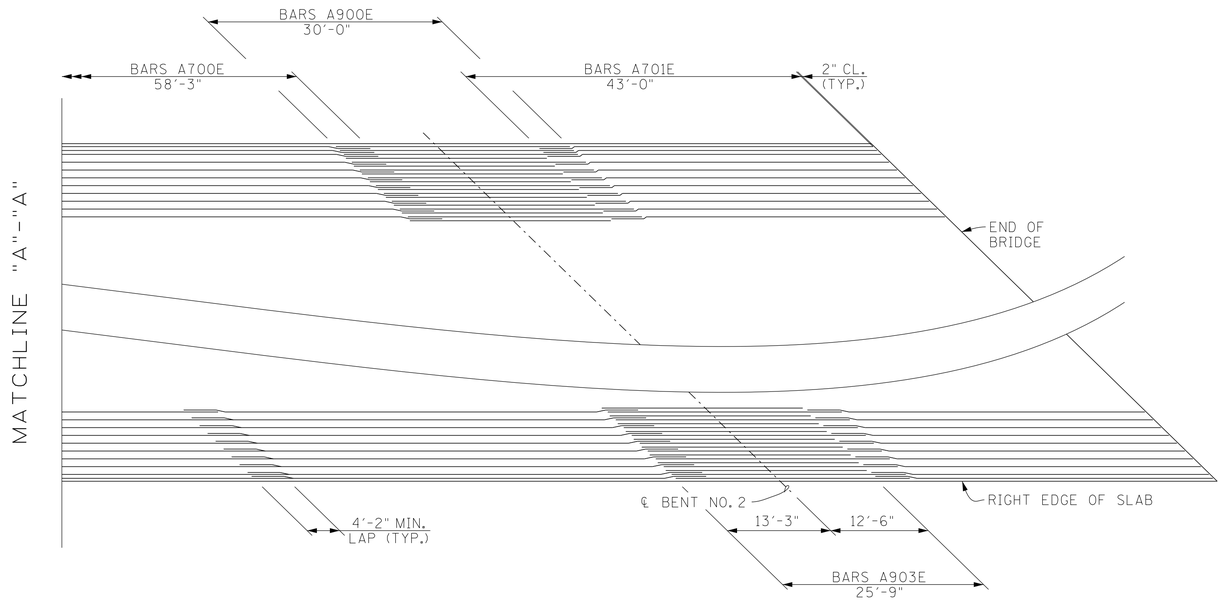

PARTIAL PLAN OF MAIN REINFORCEMENT

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-723

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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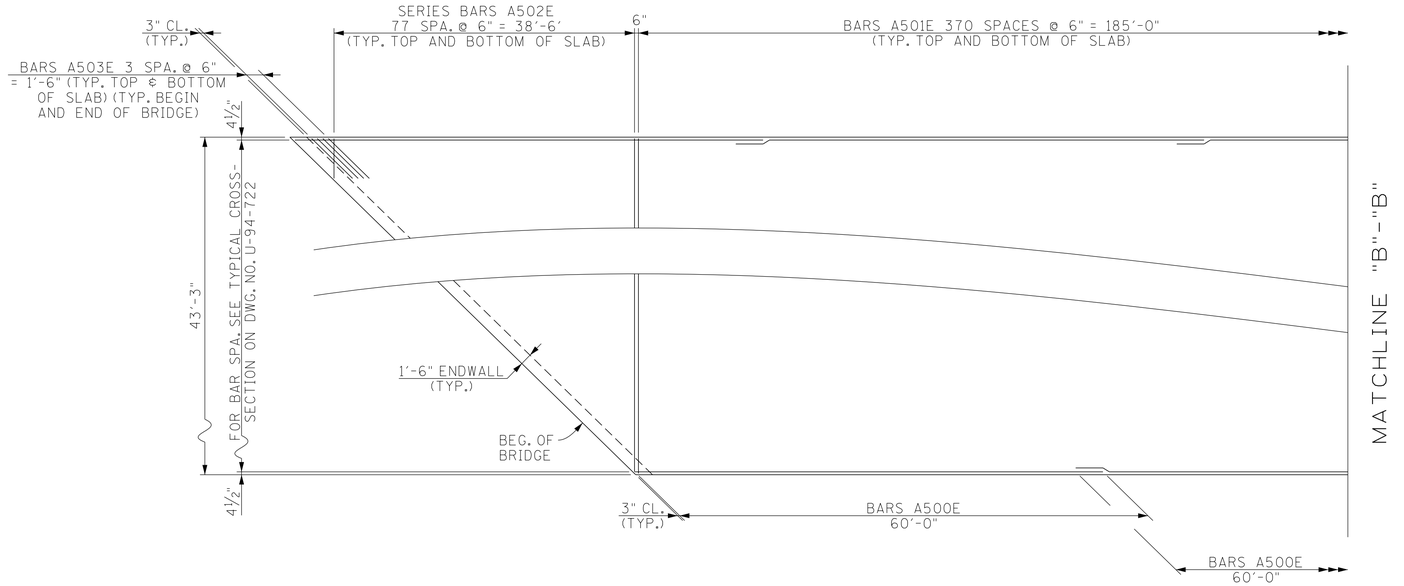

SLAB PLAN

(SHOWING BOTTOM OF SLAB UNLESS OTHERWISE NOTED)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-724

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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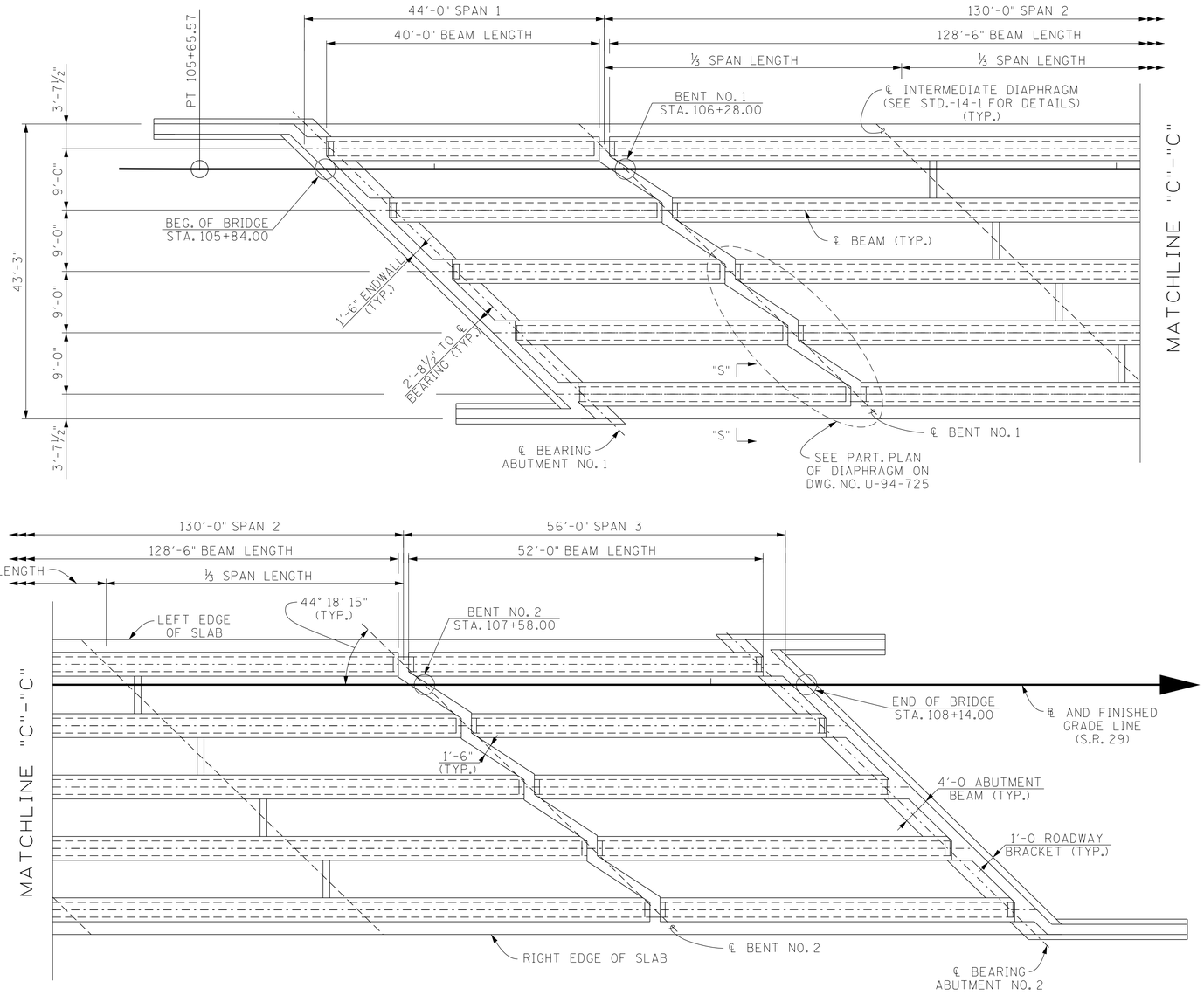

FRAMING PLAN

PIN NO.: 124526.00

DESIGN BY:	JIALI CONG	DATE: 10-2024
DRAWN BY:	T.R. KIRK	DATE: 10-2024
SUPERVISED BY:	JS/GWK	DATE: 10-2024
CHECKED BY:	ADRIAN BENNETT	DATE: 02-2025

SEALED BY

JONATHAN B. SHOULDERS
REGISTERED
PROFESSIONAL ENGINEER
STATE OF TENNESSEE
03/27/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-725

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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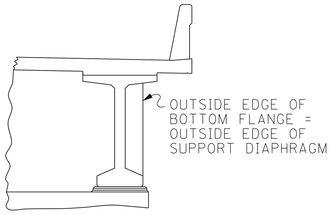
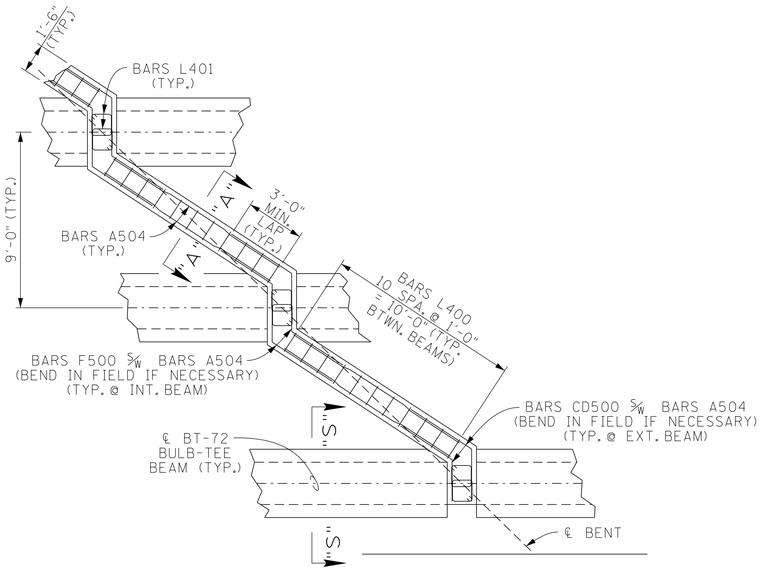
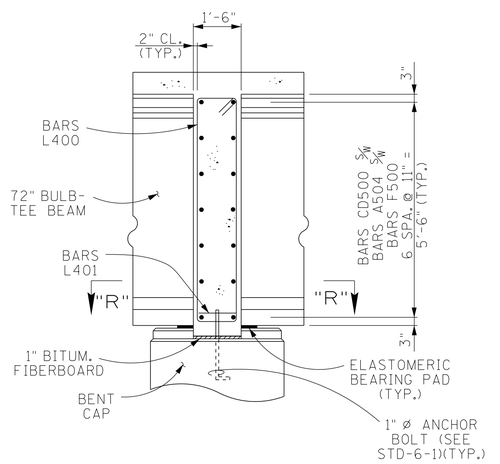


SECTION "S"-"S"

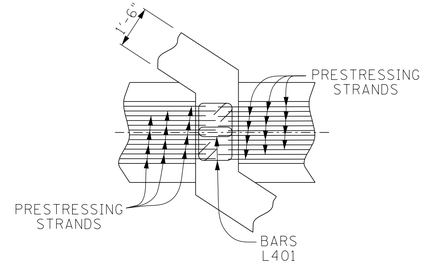


PARTIAL PLAN OF DIAPHRAGM



SECTION "A"-"A"

SPECIAL NOTE FOR BOLTS AT BENTS:
ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.



SECTION "R"-"R"

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DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-726

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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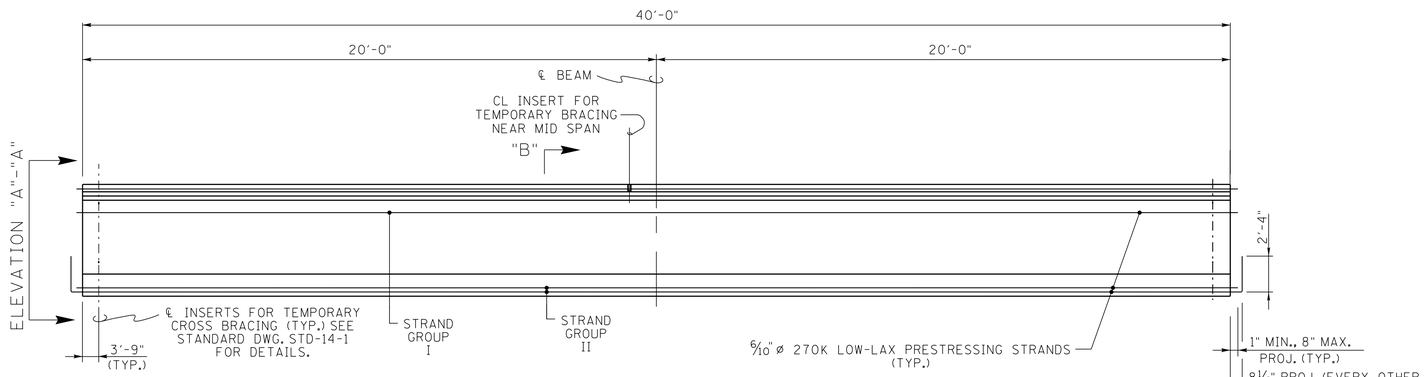
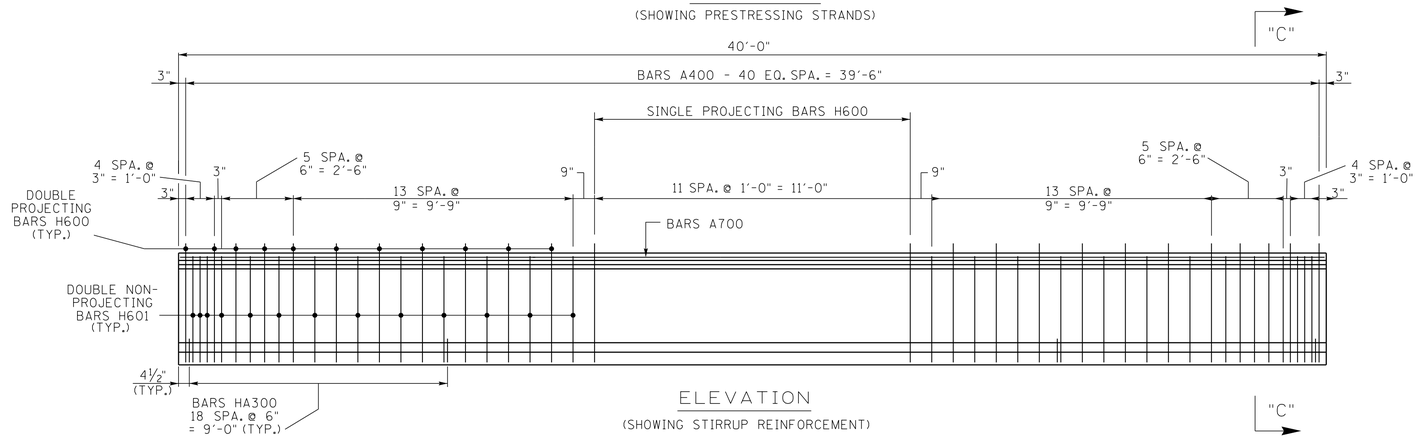
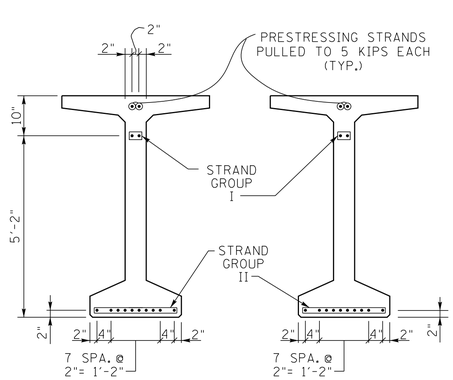


"B" ELEVATION
(SHOWING PRESTRESSING STRANDS)

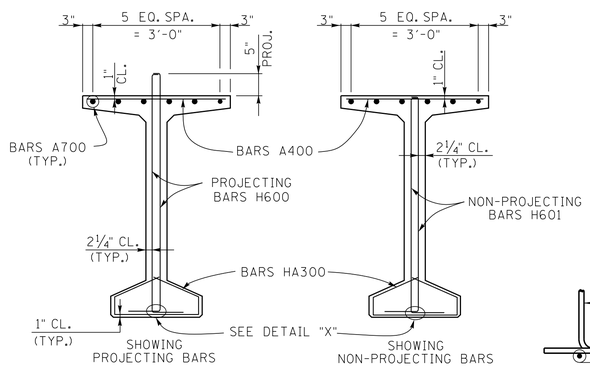


ELEVATION
(SHOWING STIRRUP REINFORCEMENT)
"C"



ELEVATION "A"-"A" (SHOWING PRESTRESSING STRANDS @ ENDS) (12 STRANDS)

SECTION "B"-"B" (SHOWING PRESTRESSING STRANDS @ MIDSPAN) (12 STRANDS)



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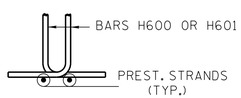
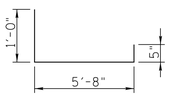


DETAIL "X"

BARS A400
BARS A500
BARS A700



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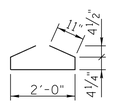
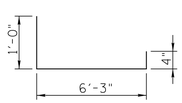


BARS HA300



BARS H600

GENERAL NOTES

NOTE: SEE STD-14-1 FOR BULB-TEE BEAM STANDARD DETAILS AND NOTES.

NOTE: ALL BEAMS ARE BT-72.

NOTE: THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

NOTE: THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 8000 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 7000 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 = 0.99 LANES
SHEAR = 1.03 LANES

COMPOSITE DEAD LOAD: DC = 155 LB/FT
DW = 294 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
A400	4	41	3'-2"
A500	5	8	5'-6"
A700	7	6	39'-8"
H600	6	56	7'-7"
H601	6	52	7'-1"
HA300	3	38	4'-7"

ESTIMATED QUANTITIES
PER BEAM

NO. REQ'D PER SPAN	CONCRETE C.Y.	REINFORCING STEEL LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
5	7.9	1,876	388

SEALED BY

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: RODNEY CHANDLER DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 1
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-727

3/26/2025 9:15:39 PM
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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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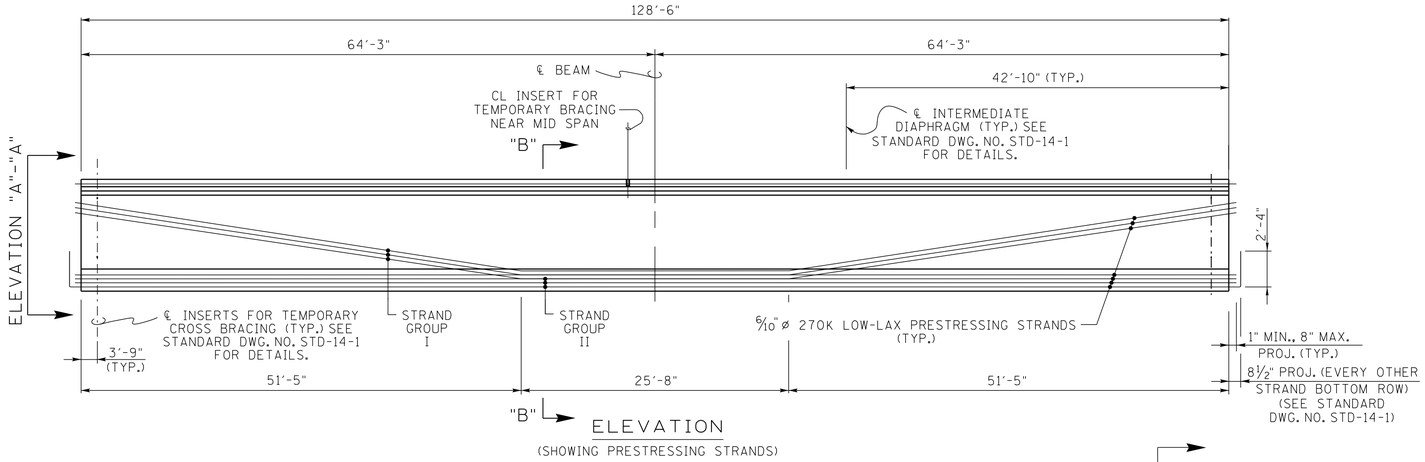
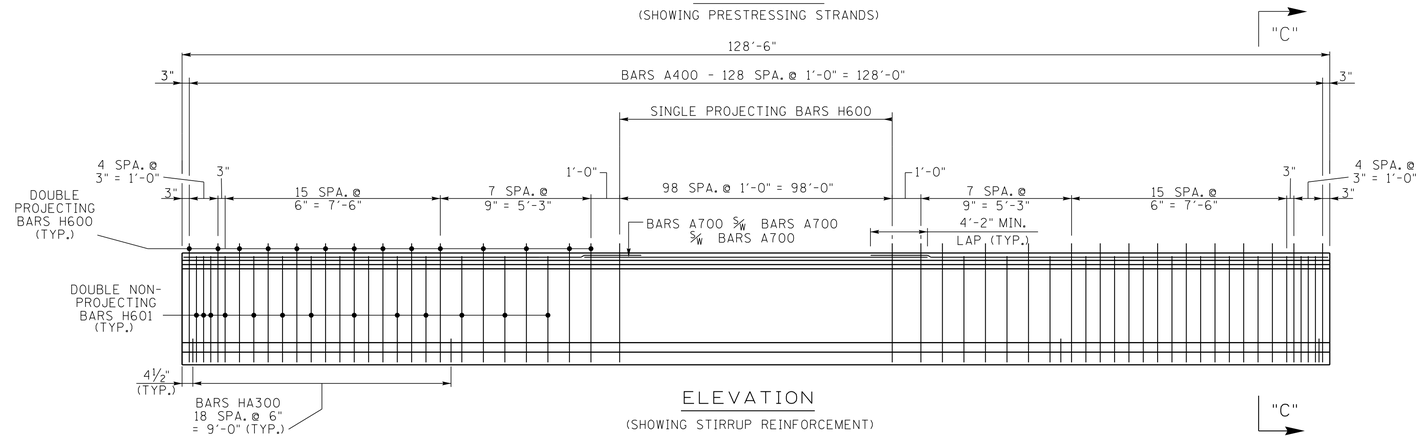


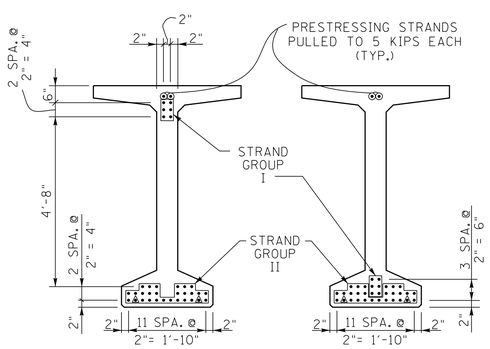
ELEVATION

(SHOWING PRESTRESSING STRANDS)



ELEVATION

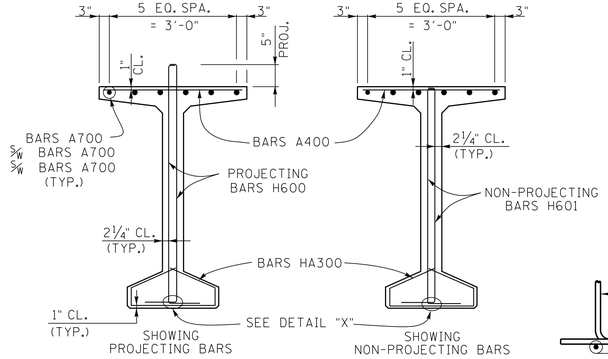
(SHOWING STIRRUP REINFORCEMENT)



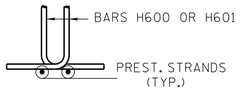
ELEVATION "A"-"A" (SHOWING PRESTRESSING STRANDS @ ENDS) (34 STRANDS)

SECTION "B"-"B" (SHOWING PRESTRESSING STRANDS @ MIDSPAN) (34 STRANDS)

♣ DENOTES: DEBOND 3'-0" FROM END OF BEAM



SECTION "C"-"C"



DETAIL "X"

GENERAL NOTES

NOTE: SEE STD-14-1 FOR BULB-TEE BEAM STANDARD DETAILS AND NOTES.

NOTE: ALL BEAMS ARE BT-72.

NOTE: THE PRESTRESSED BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE SUPPORT DIAPHRAGMS (EXCLUDING BOTTOM 15") AND DECK SLAB.

NOTE: THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 8000 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 7000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

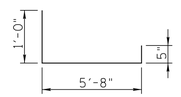
PRESTRESSING STRANDS: ALL STRANDS SHALL BE 6/10" DIAMETER, UNCOATED 7- WIRE STRANDS, ASTM A416 GRADE 270, LOW-LAX, A = 0.217 SQ. IN. PULLED TO 43,943 LBS. PER STRAND UNLESS OTHERWISE NOTED.

PRESTRESSED BEAM DESIGN DATA (PER BEAM):

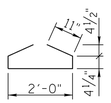
LIVE LOAD DISTRIBUTION FACTOR:	MOMENT = 0.99 LANES
	SHEAR = 1.03 LANES
COMPOSITE DEAD LOAD:	DC = 155 LB/FT
	DW = 294 LB/FT
COMPOSITE SLAB DESIGN STRENGTH:	F 'C = 4000 PSI

DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

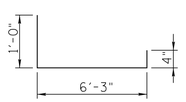
BARS A400
BARS A500
BARS A700



BARS H601



BARS HA300



BARS H600

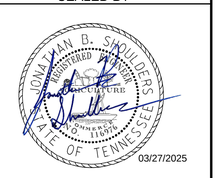
BILL OF STEEL
PER BEAM

BAR	SIZE	# REQ'D.	LENGTH
A400	4	129	3'-2"
A500	5	8	5'-6"
A700	7	18	45'-6"
H600	6	155	7'-7"
H601	6	56	7'-1"
HA300	3	38	4'-7"

ESTIMATED QUANTITIES
PER BEAM

NO. REQ'D PER SPAN	CONCRETE C.Y.	REINFORCING STEEL LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
5	25.4	4,420	3,290

SEALED BY



PIN NO.: 124526.00

DESIGN BY:	JIALI CONG	DATE:	10-2024
DRAWN BY:	RODNEY CHANDLER	DATE:	10-2024
SUPERVISED BY:	JS/GWK	DATE:	10-2024
CHECKED BY:	ADRIAN BENNETT	DATE:	02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 2 STATE ROUTE 29 OVER STATE ROUTE 61 BRIDGE I.D. NO. 73SR0290009 STATION 107+01.13 ROANE COUNTY 2025

U-94-728

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
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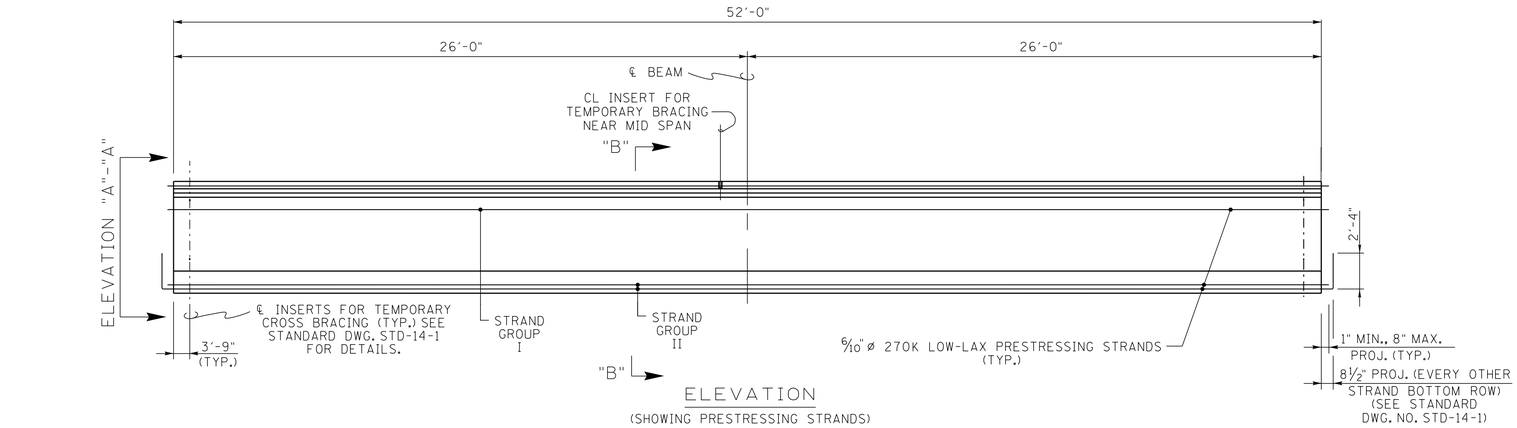
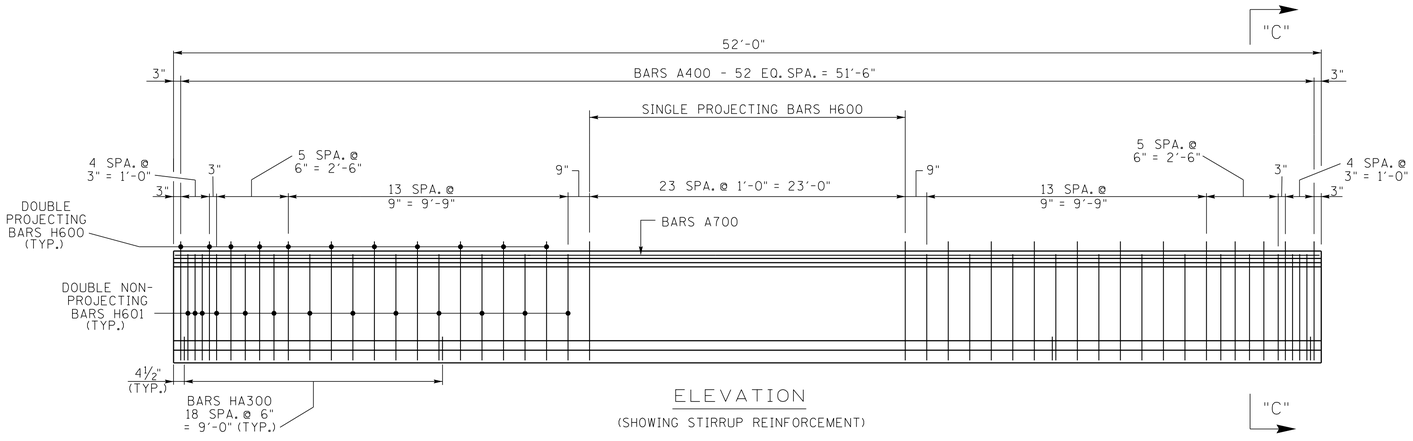


ELEVATION
(SHOWING PRESTRESSING STRANDS)



ELEVATION
(SHOWING STIRRUP REINFORCEMENT)

GENERAL NOTES

NOTE: SEE STD-14-1 FOR BULB-TEE BEAM STANDARD DETAILS AND NOTES.

NOTE: ALL BEAMS ARE BT-72.

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COMPOSITE SLAB DESIGN STRENGTH: F 'C = 4000 PSI

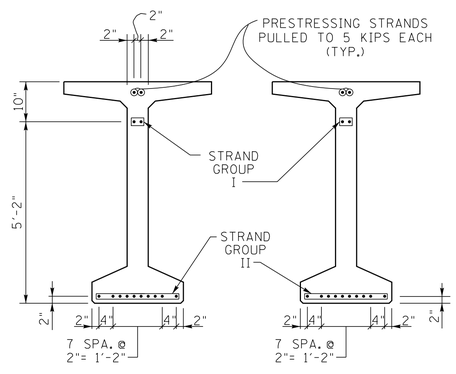
DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

BILL OF STEEL
PER BEAM

BAR	SIZE	# REQ'D.	LENGTH
A400	4	53	3'-2"
A500	5	8	5'-6"
A700	7	6	51'-8"
H600	6	68	7'-7"
H601	6	52	7'-1"
HA300	3	38	4'-7"

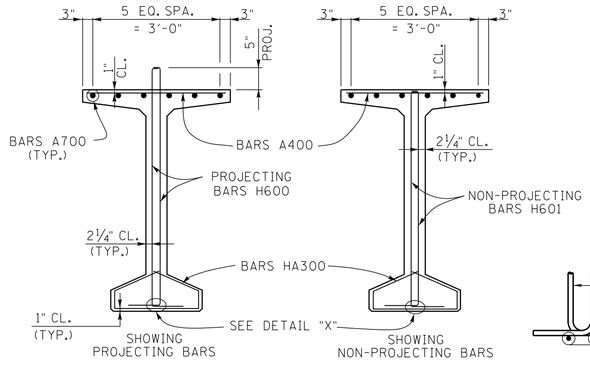
ESTIMATED QUANTITIES
PER BEAM

NO. REQ'D PER SPAN	CONCRETE C.Y.	REINFORCING STEEL LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
5	10.3	2,185	495

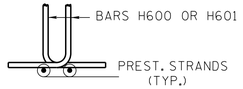


ELEVATION "A"-"A" (SHOWING PRESTRESSING STRANDS @ ENDS) (12 STRANDS)

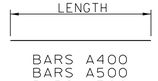
SECTION "B"-"B" (SHOWING PRESTRESSING STRANDS @ MIDSPAN) (12 STRANDS)



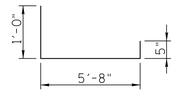
SECTION "C"-"C"



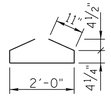
DETAIL "X"



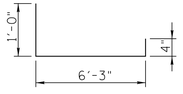
BARS A400
BARS A500
BARS A700



BARS H601



BARS HA300



BARS H600

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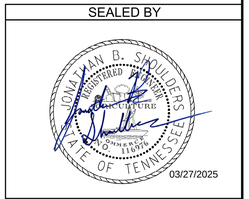

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: RODNEY CHANDLER DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESTRESSED BULB-TEE BEAM DETAILS SPAN NO. 3
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-729

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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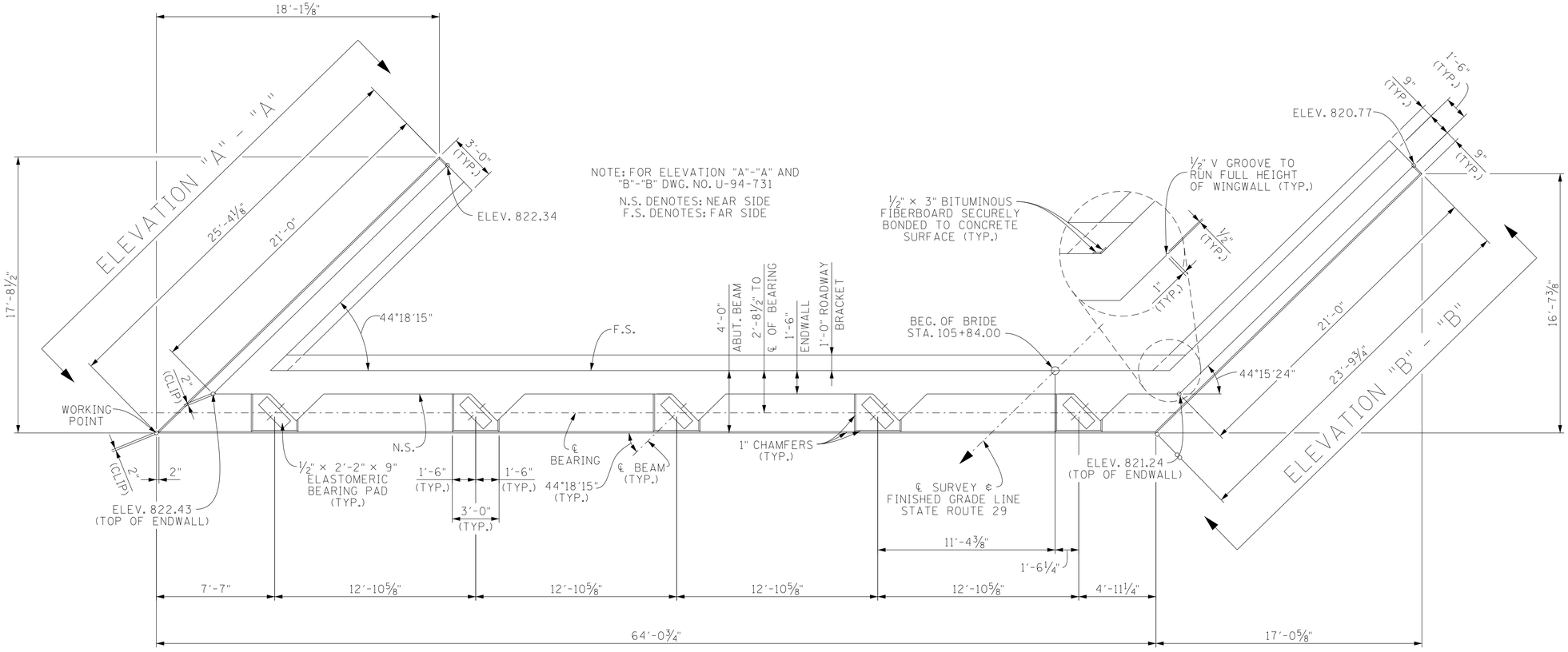
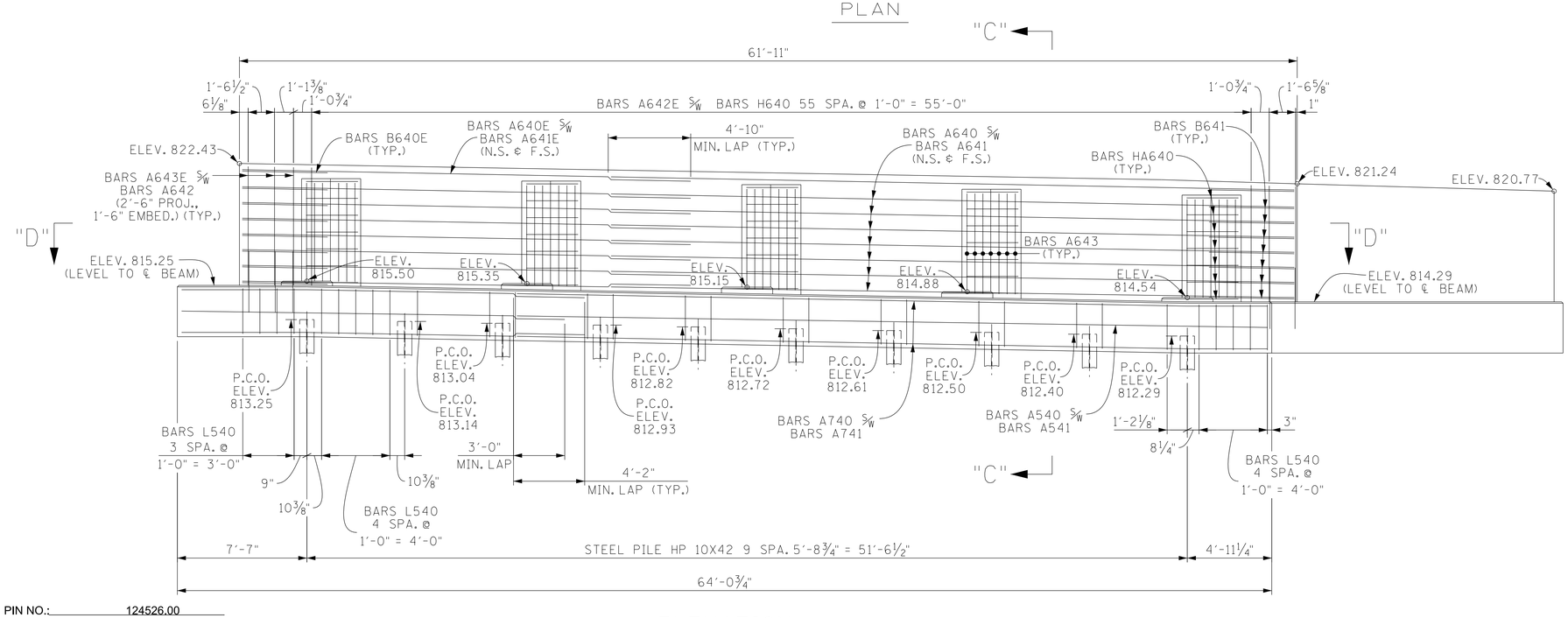
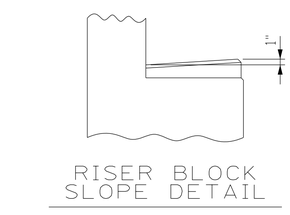


PLAN



ELEVATION
(LOOKING BACK ON SURVEY)



RISER BLOCK SLOPE 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-1-1SS.

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

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

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

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-730

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: J. STEVENS DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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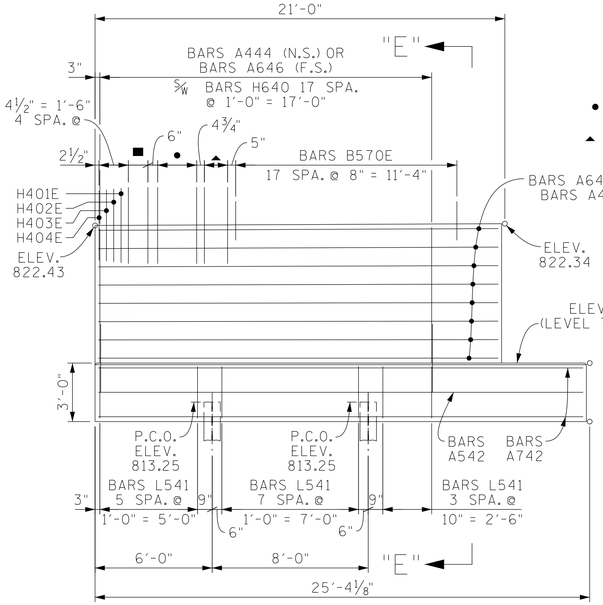


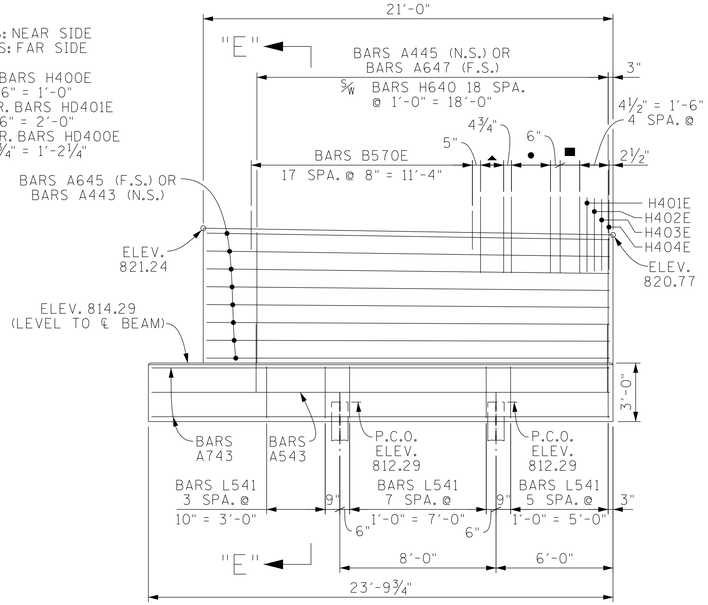
SECTION "A"-"A"

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

■ DENOTES: BARS H400E 2 SPA. @ 6" = 1'-0"

● DENOTES: SER. BARS HD401E 4 SPA. @ 6" = 2'-0"

▲ DENOTES: SER. BARS HD400E 3 SPA. @ 4¾" = 1'-2¼"



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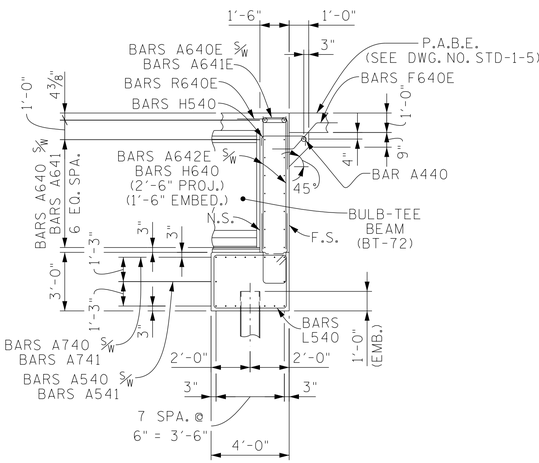
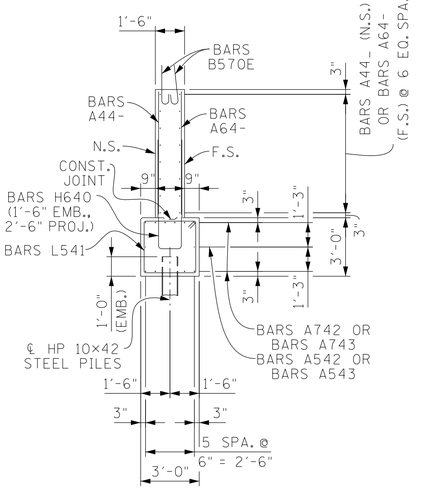
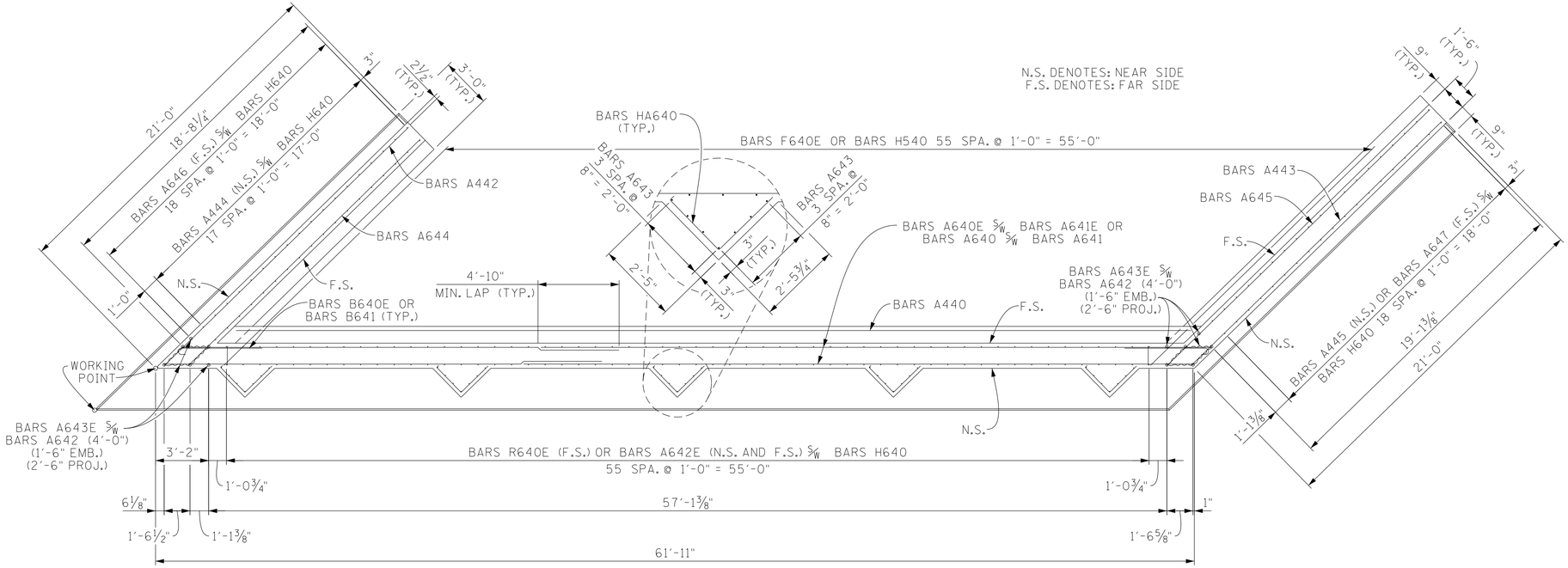


SECTION "C"-"C"



SECTION "E"-"E"



SECTION "D"-"D"

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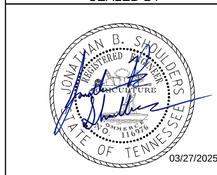

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1 DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-731

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: J. STEVENS DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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3/27/2025 9:29:09 AM
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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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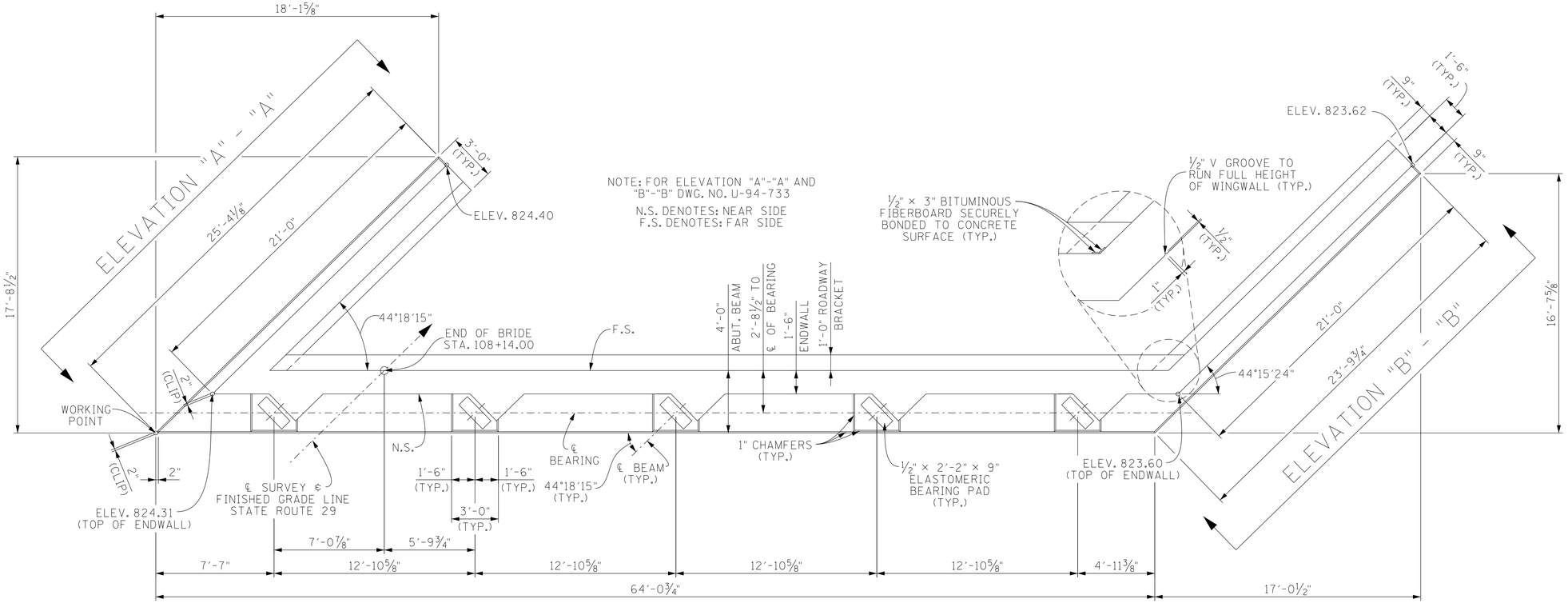
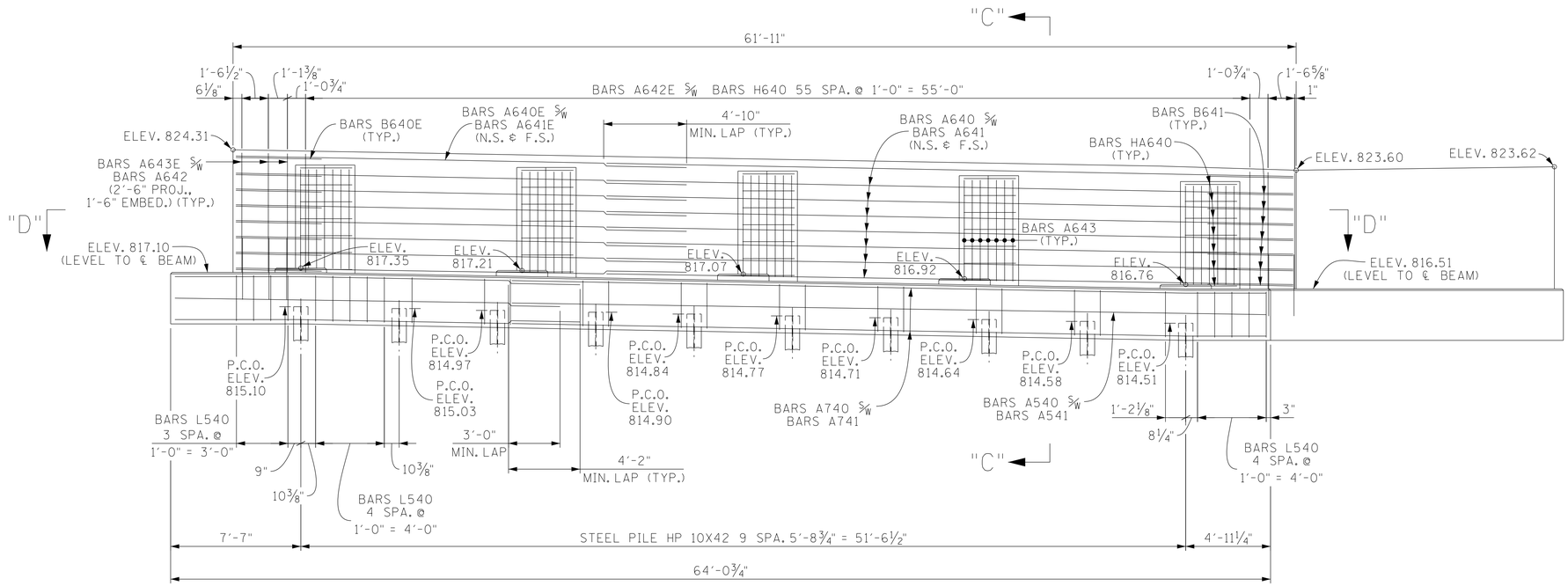
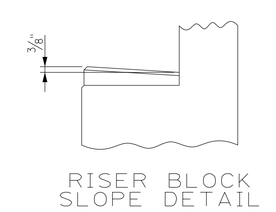


PLAN



ELEVATION
(LOOKING FORWARD ON SURVEY)



RISER BLOCK SLOPE 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.

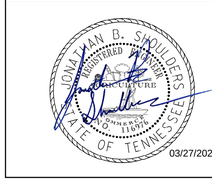
NOTE: WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS.
FOR DETAILS OF WINGPOSTS AND PARAPETS, SEE STD. DWG. NO. STD-1-1SS.

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

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

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

SEALED BY



PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: J. STEVENS DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 2
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-732

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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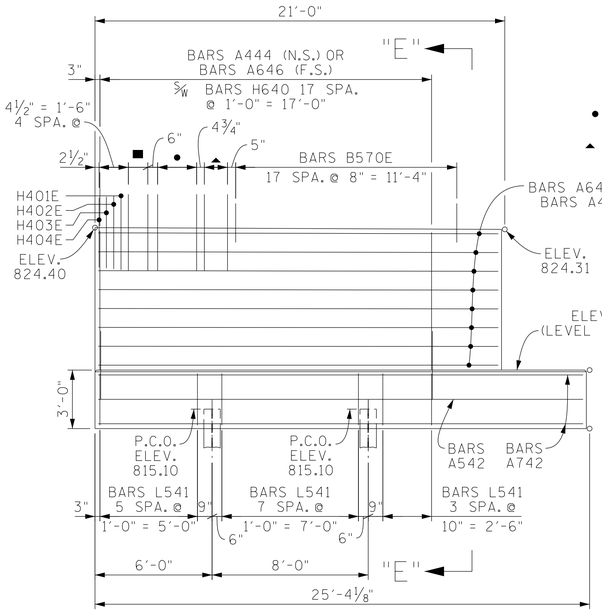


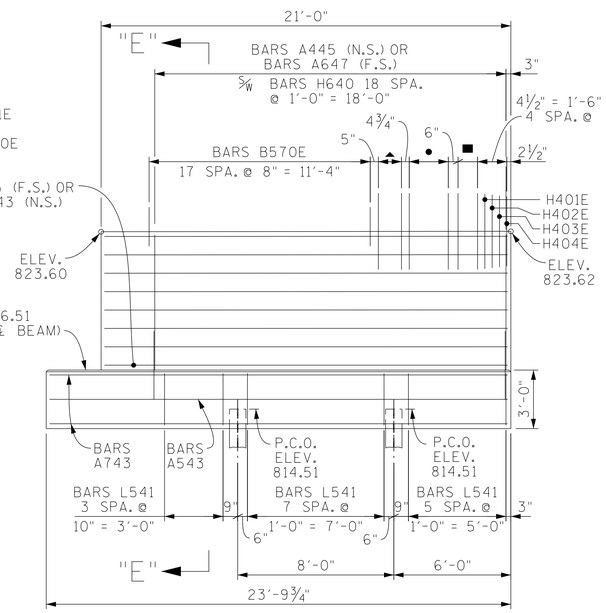
SECTION "A"-"A"

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

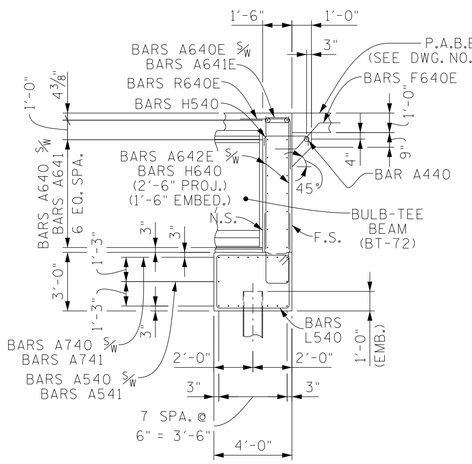
■ DENOTES: BARS H400E 2 SPA. @ 6" = 1'-0"

● DENOTES: SER. BARS HD401E 4 SPA. @ 6" = 2'-0"

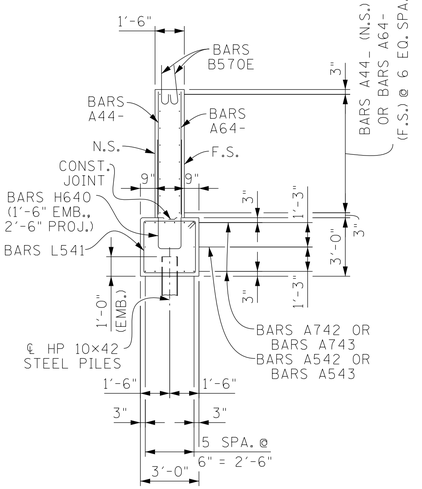
▲ DENOTES: SER. BARS HD400E 3 SPA. @ 4¾" = 1'-2¼"



SECTION "B"-"B"



SECTION "C"-"C"



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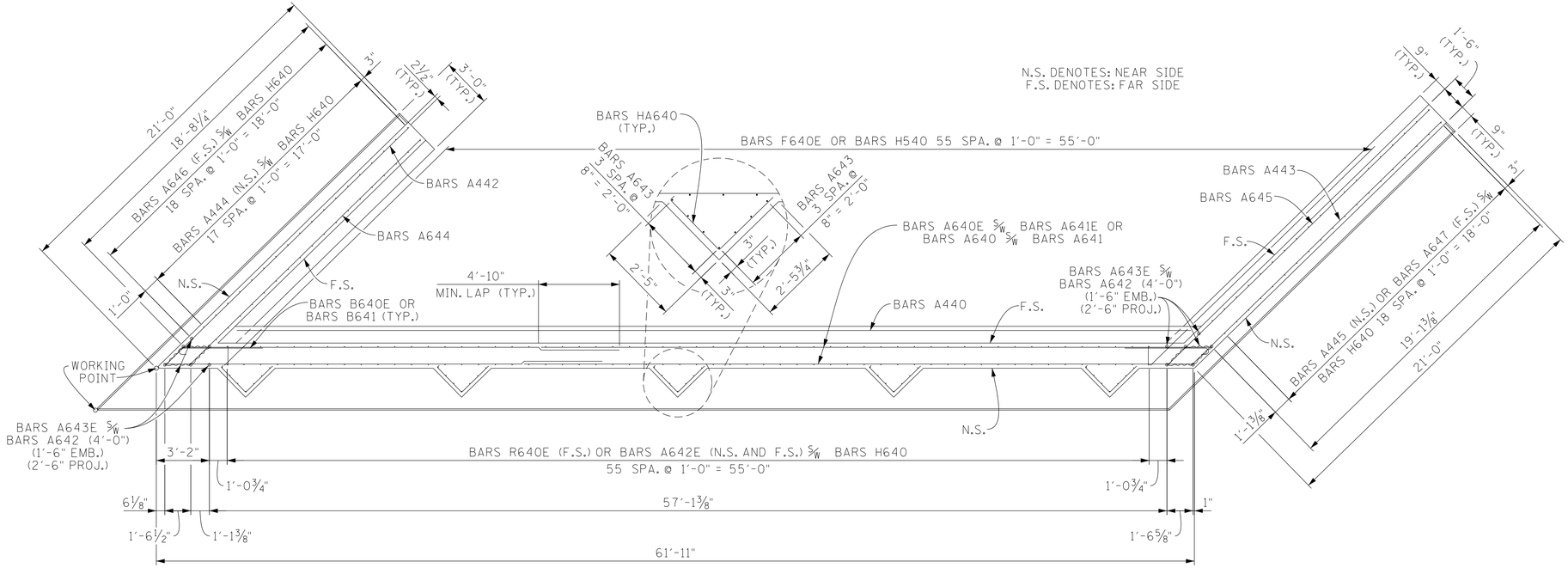

SECTION "D"-"D"

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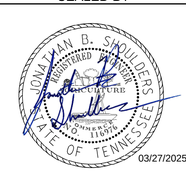

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 2 DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-733

PIN NO.: 124526.00

DESIGN BY:	JIALI CONG	DATE: 10-2024
DRAWN BY:	J. STEVENS	DATE: 10-2024
SUPERVISED BY:	JS/GWK	DATE: 10-2024
CHECKED BY:	ADRIAN BENNETT	DATE: 02-2025

3/27/2025 9:34:34 AM
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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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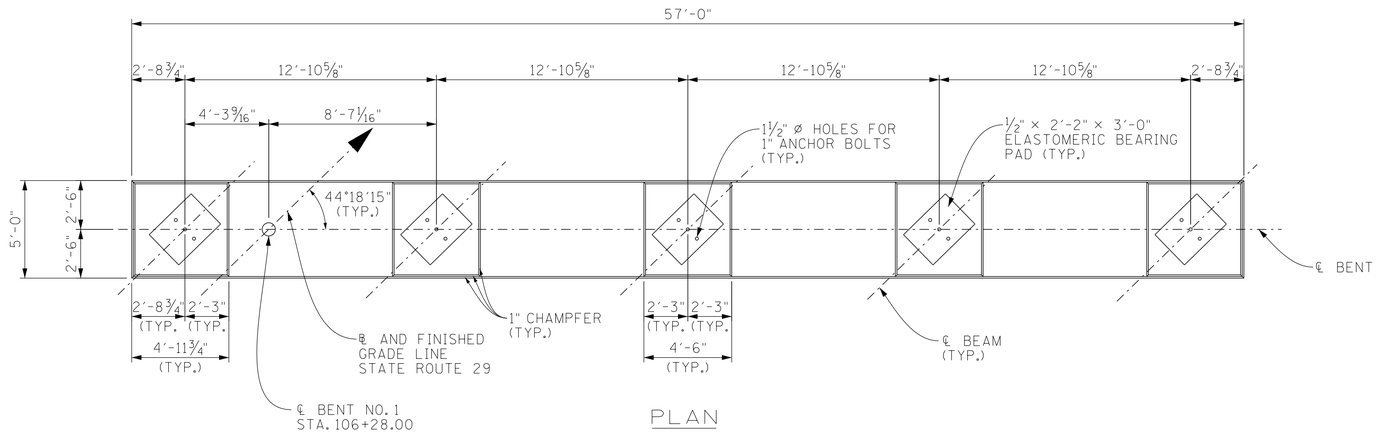


PLAN

NOTE: WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWING STD-6-1. BOLT PROJECTION 11".

NOTE: RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH BENT CAP.

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

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

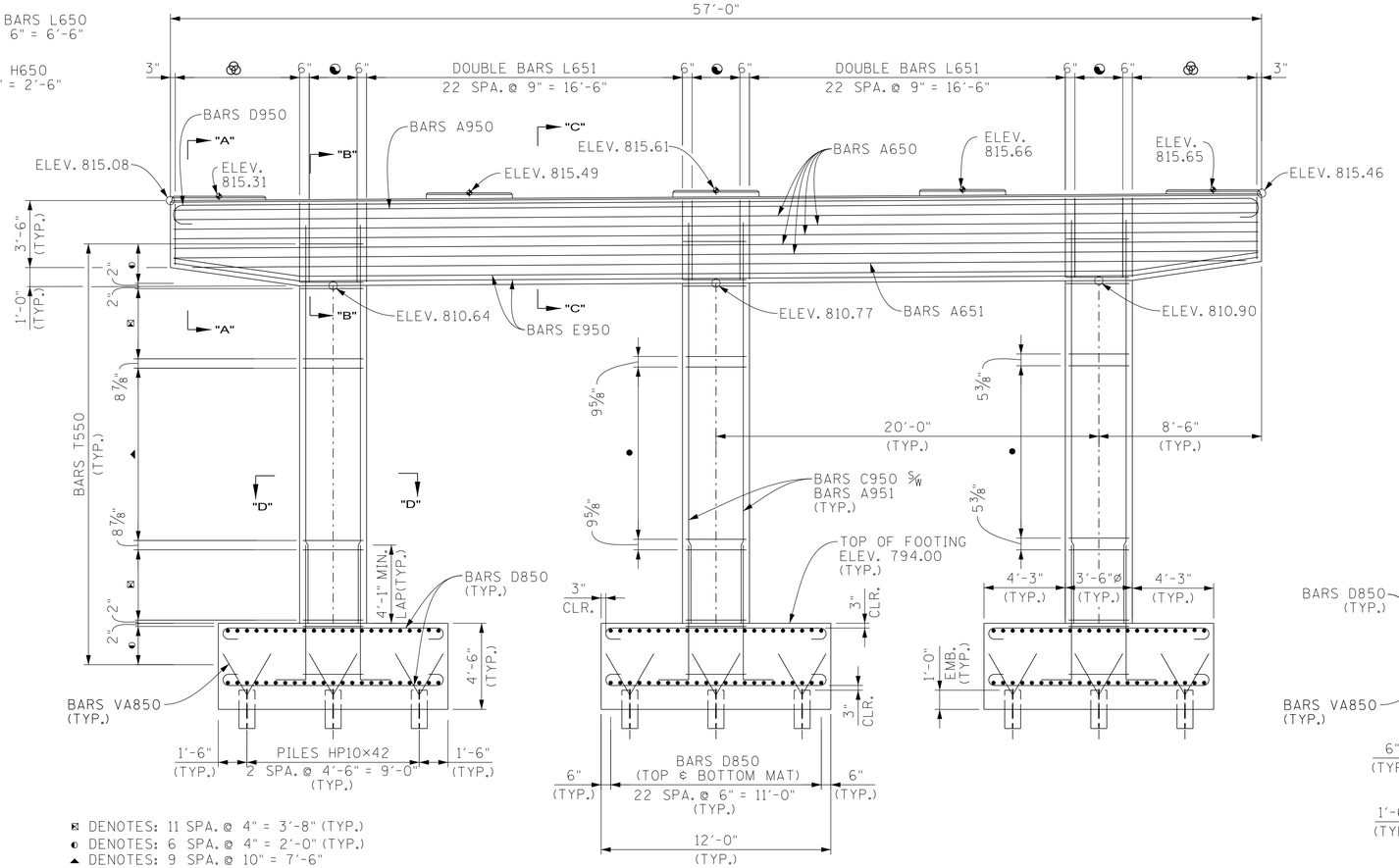
NOTE: COLUMN STEEL SHALL EXTEND 3'-2" INTO BENT CAP.

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

NOTE: FOR SECTIONS "A"-"A", "B"-"B", "C"-"C" AND "D"-"D", SEE DWG. NO. U-94-736.

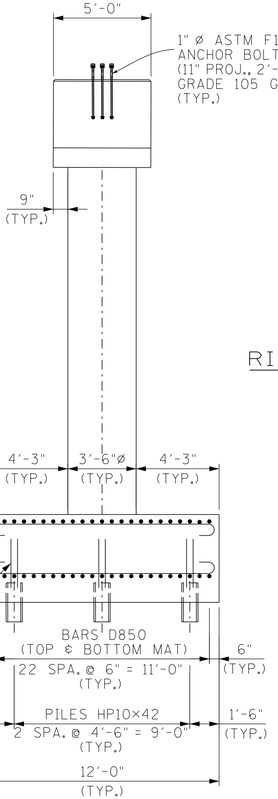
⊗ DENOTES: DBL. SER. BARS L650
13 SPA. @ 6" = 6'-6"

◒ DENOTES: DBL. BARS H650
3 SPA. @ 10" = 2'-6"

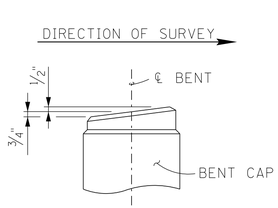


▣ DENOTES: 11 SPA. @ 4" = 3'-8" (TYP.)
◐ DENOTES: 6 SPA. @ 4" = 2'-0" (TYP.)
▲ DENOTES: 9 SPA. @ 10" = 7'-6"
● DENOTES: 10 SPA. @ 10" = 8'-4"

ELEVATION
(LOOKING FORWARD ON SURVEY)



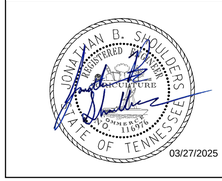
END ELEVATION



RISER BLOCK SLOPE DETAIL

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

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BENT NO. 1
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-734

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: F. BARTON DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

3/27/2025 8:33:52 AM
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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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

NOTE: WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWING STD-6-1. BOLT PROJECTION 11".

NOTE: RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH BENT CAP.

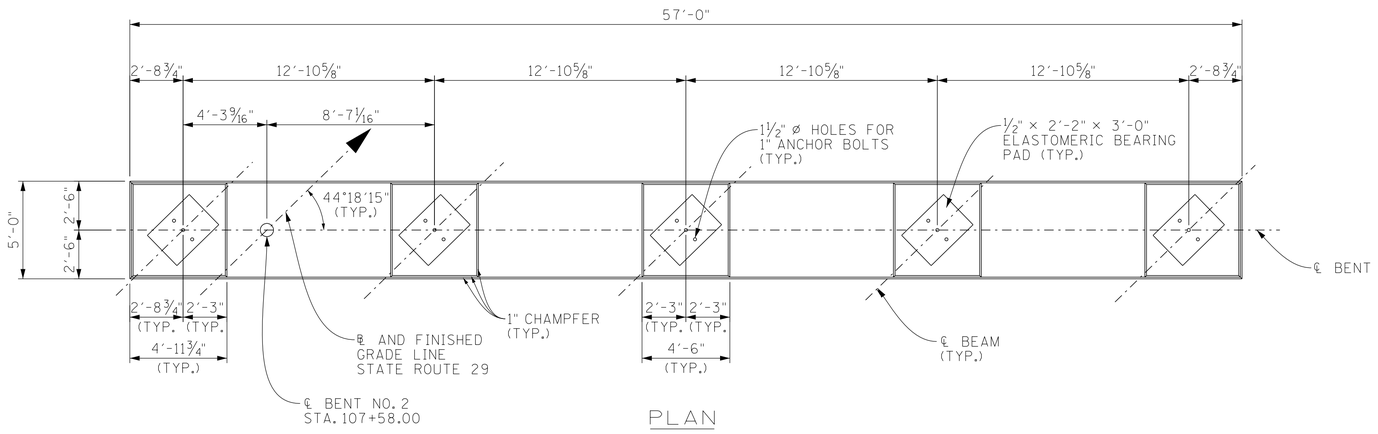
NOTE: RISER BLOCK BEARING SURFACE SHALL CONFORM TO BOTTOM OF BEAM GRADE.

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

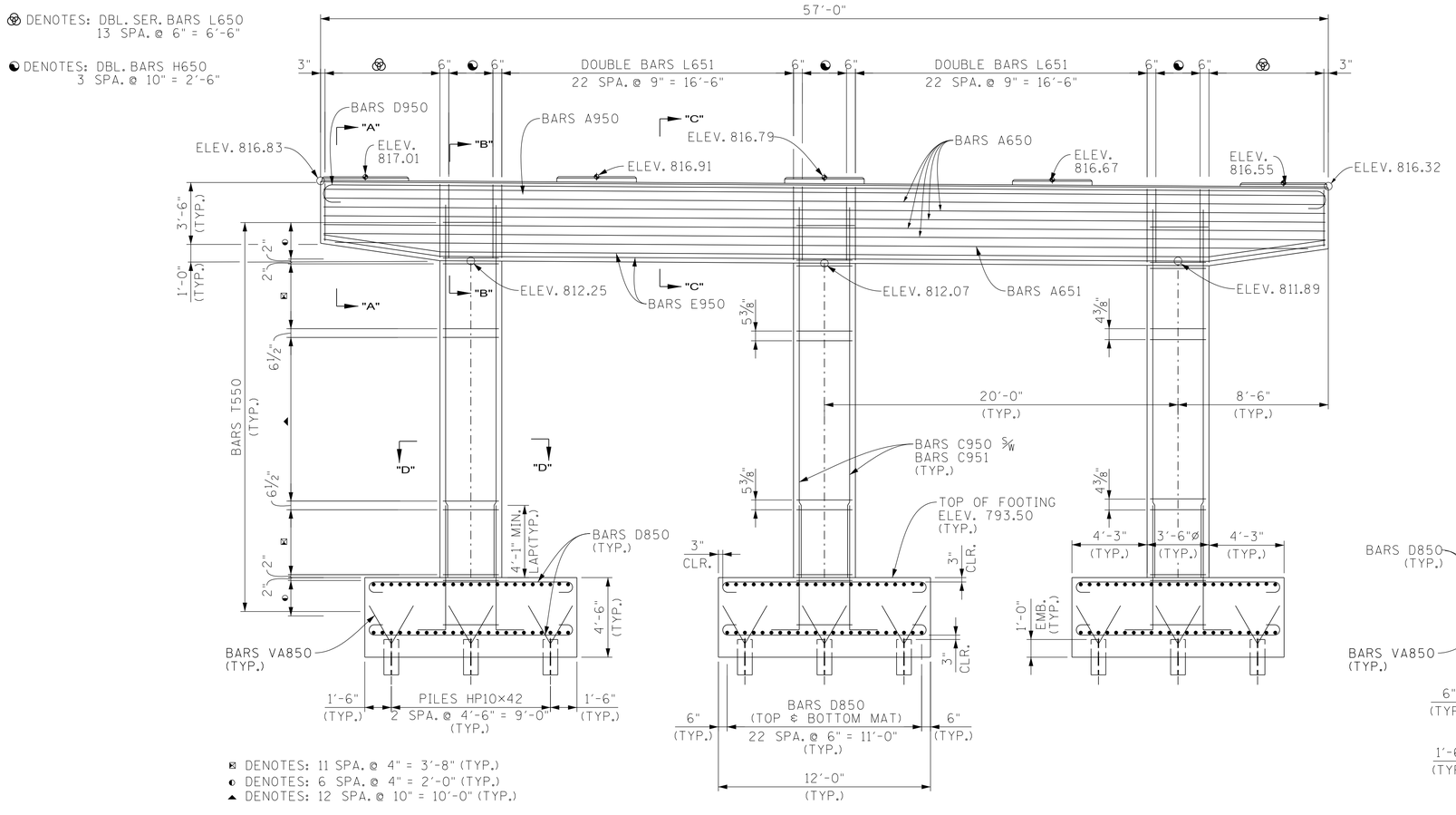
NOTE: COLUMN STEEL SHALL EXTEND 3'-2" INTO BENT CAP.

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

NOTE: FOR SECTIONS "A"-"A", "B"-"B", "C"-"C" AND "D"-"D", SEE DWG. NO. U-94-736.

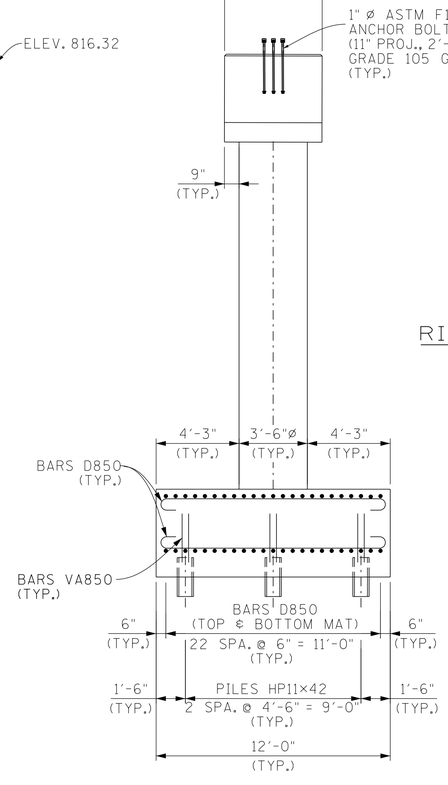


PLAN

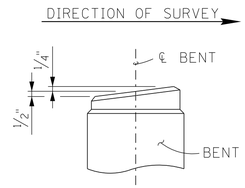


ELEVATION

(LOOKING FORWARD ON SURVEY)



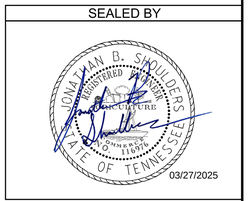
END ELEVATION



RISER BLOCK SLOPE DETAIL

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

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BENT NO. 2
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-735

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: F. BARTON DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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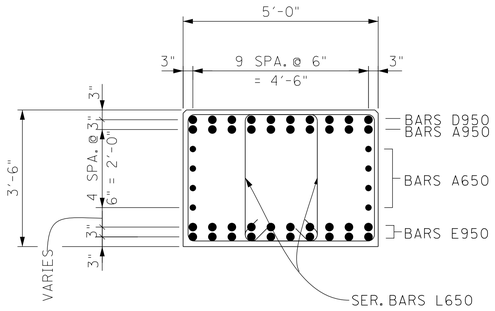
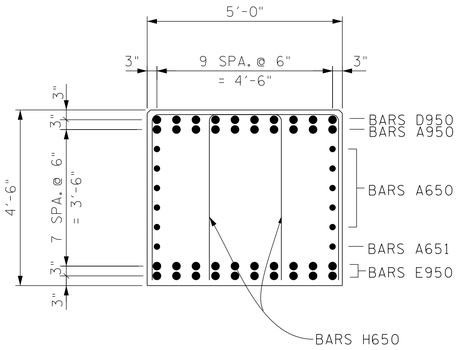
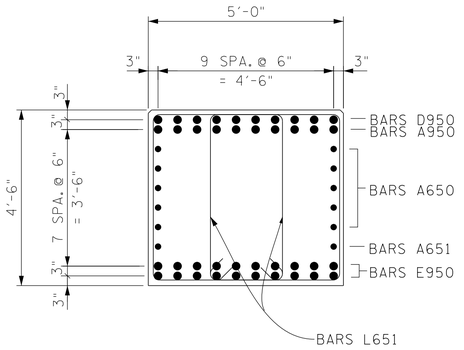


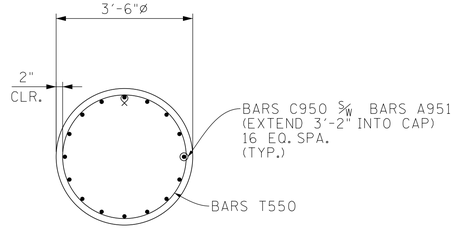
SECTION "A"-"A"



SECTION "B"-"B"



SECTION "C"-"C"



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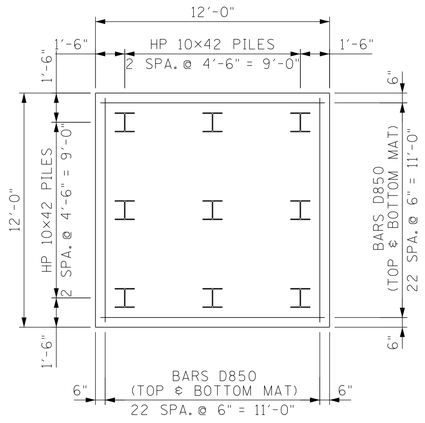

PLAN OF FOOTING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BENT NOS. 1 & 2 DETAILS
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-736

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: F. BARTON DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
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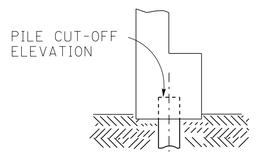
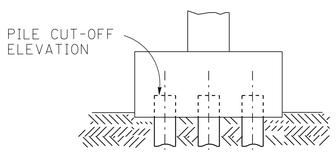
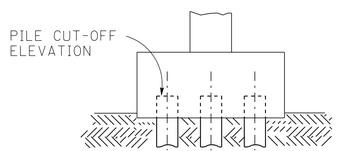


ABUTMENT NO. 1



BENT NO. 1



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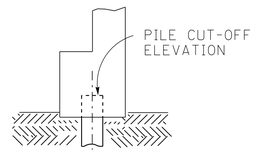

ABUTMENT NO. 2

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINAL FOUNDATION DATA
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-737

3/26/2025 2:45:20 PM
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CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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

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.

TABLE SHOWING PILE NUMBERS, PILE CUT-OFF ELEVATIONS, AND PILE LENGTHS

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
ABUTMENT NO. 1	PILE CUT-OFF ELEV.														
	PILE TIP ELEV.														
	IN PLACE PILE LENGTH														

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	25	26	27
BENT NO. 1	PILE CUT-OFF ELEV.																										
	PILE TIP ELEV.																										
	IN PLACE PILE LENGTH																										

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	25	26	27
BENT NO. 2	PILE CUT-OFF ELEV.																										
	PILE TIP ELEV.																										
	IN PLACE PILE LENGTH																										

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
ABUTMENT NO. 2	PILE CUT-OFF ELEV.														
	PILE TIP ELEV.														
	IN PLACE PILE LENGTH														

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINAL FOUNDATION DATA
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-738

2/24/2025 2:48:48 PM
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BILL OF STEEL

CONST. NO.: 73008-3245-94

SUPERSTUCTURE (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A500E	SLAB	5	216					60'-0"
A501E	SLAB	5	742					42'-11"
SERIES								
A502E	SLAB	5	4	*				1865'-1"
				DIM. "A" VARIES FROM 5'-1 1/2" TO 42'-8 3/8" IN INC. OF 5 7/8" (78 BARS)				
A503E	SLAB	5	16					7'-4"
A700E	SLAB	7	90					58'-3"
A701E	SLAB	7	45					43'-0"
A702E	SLAB	7	45					32'-6"
A900E	SLAB	9	45					30'-0"
A901E	SLAB	9	45					28'-6"
A902E	SLAB	9	41					24'-6"
A903E	SLAB	9	41					25'-9"
B570E	SLAB/PARAPET	5	1,380	2'-8"				3'-3"

SUPERSTUCTURE (REGULAR)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A504	DIAPHRAGM	5	112					10'-2"
CD500	DIAPHRAGM	5	56	3'-5"	2'-5"	1'-3 3/4"		5'-10"
F500	DIAPHRAGM	5	84	3'-5"	1'-7 1/2"	3'-5"	2'-6"	9'-10"
L400	DIAPHRAGM	4	88	1'-2"	5'-8"			14'-5"
L401	DIAPHRAGM	4	20	1'-2"	1'-2"			5'-5"

ABUTMENT NO. 1 (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A640E	ENDWALL	6	2					40'-0"
A641E	ENDWALL	6	2					26'-5"
A642E	ENDWALL	6	112					6'-9"
A643E	ENDWALL	6	12					6'-9"
B570E	W.W. / PARAPET	5	72	2'-8"				3'-3"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL/PA.B.E.	6	56	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
H400E	W.W. / PARAPET	4	6	0'-11"	3'-11"			8'-9"
H401E	W.W. / PARAPET	4	2	0'-11"	3'-10"			8'-7"
H402E	W.W. / PARAPET	4	2	0'-10"	3'-9"			8'-4"
H403E	W.W. / PARAPET	4	2	0'-8"	3'-8"			8'-0"
H404E	W.W. / PARAPET	4	2	0'-5"	3'-7"			7'-7"
SERIES								
HD400E	W.W. / PARAPET	4	2	*	3'-11"	4'-0"	0'-9"	33'-4"
				DIM "A" VARIES FROM 5 1/4" TO 4 3/8" IN INC. OF 5/16" (4 BARS)				
SERIES								
HD401E	W.W. / PARAPET	4	2	*	3'-11"	4'-0"	0'-9"	42'-2"
				DIM "A" VARIES FROM 6 7/8" TO 5 1/2" IN INC. OF 5/16" (5 BARS)				
R640E	ENDWALL/SLAB	6	56	2'-10"	2'-10"			5'-8"

ABUTMENT NO. 1 (REGULAR)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A440	RDWY BRK	4	1					56'-11"
A442	WINGWALL	4	8					20'-4"
A443	WINGWALL	4	8					20'-11"
A444	WINGWALL	4	18					6'-11"
A445	WINGWALL	4	19					6'-4"
A540	ABUT BEAM	5	2					40'-0"
A541	ABUT BEAM	5	2					26'-8"
A542	WING BEAM	5	2					25'-0"
A543	WING BEAM	5	2					23'-6"
A640	ENDWALL	6	7					40'-0"
A641	ENDWALL	6	7					26'-5"
A642	ENDWALL	6	12					4'-0"
A643	BEAM STOP	6	35					5'-9"
A644	WINGWALL	6	8					19'-4"
A645	WINGWALL	6	8					22'-0"
A646	WINGWALL	6	19					6'-11"
A647	WINGWALL	6	19					6'-4"
A740	ABUT. BEAM	7	14					40'-0"
A741	ABUT. BEAM	7	14					27'-9"
A742	WING BEAM	7	10					25'-0"
A743	WING BEAM	7	10					23'-6"

ABUTMENT NO. 1 (REGULAR) (CONTINUED)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
B641	ENDWALL	6	14	5'-0"				5'-8"
H640	BEAM/WAL	6	93	1'-2"	4'-0"			9'-2"
H540	E.W./RDWY BRK	5	56	3'-1"	0'-6"			4'-1"
HA640	BEAM STOP/E.W.	6	35	2'-1"	3'-10"	1'-4"		7'-3"
L540	ABUT BEAM	5	51	2'-8"	3'-8"			13'-7"
L541	WING BEAM	5	36	2'-8"	2'-8"			11'-7"

ABUTMENT NO. 2 (EPOXY)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A640E	ENDWALL	6	2					40'-0"
A641E	ENDWALL	6	2					26'-5"
A642E	ENDWALL	6	112					6'-11"
A643E	ENDWALL	6	12					6'-11"
B570E	W.W. / PARAPET	5	72	2'-8"				3'-3"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL/PA.B.E.	6	56	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
H400E	W.W. / PARAPET	4	6	0'-11"	3'-11"			8'-9"
H401E	W.W. / PARAPET	4	2	0'-11"	3'-10"			8'-7"
H402E	W.W. / PARAPET	4	2	0'-10"	3'-9"			8'-4"
H403E	W.W. / PARAPET	4	2	0'-8"	3'-8"			8'-0"
H404E	W.W. / PARAPET	4	2	0'-5"	3'-7"			7'-7"
SERIES								
HD400E	W.W. / PARAPET	4	2	*	3'-11"	4'-0"	0'-9"	33'-4"
				DIM "A" VARIES FROM 5 1/4" TO 4 3/8" IN INC. OF 5/16" (4 BARS)				
SERIES								
HD401E	W.W. / PARAPET	4	2	*	3'-11"	4'-0"	0'-9"	42'-2"
				DIM "A" VARIES FROM 6 7/8" TO 5 1/2" IN INC. OF 5/16" (5 BARS)				
R640E	ENDWALL/SLAB	6	56	2'-10"	2'-10"			5'-8"

ABUTMENT NO. 2 (REGULAR)

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A440	RDWY BRK	4	1					56'-11"
A442	WINGWALL	4	8					20'-4"
A443	WINGWALL	4	8					20'-10"
A444	WINGWALL	4	18					7'-1"
A445	WINGWALL	4	19					6'-11"
A540	ABUT BEAM	5	2					40'-0"
A541	ABUT BEAM	5	2					26'-9"
A542	WING BEAM	5	2					25'-0"
A543	WING BEAM	5	2					23'-6"
A640	ENDWALL	6	7					40'-0"
A641	ENDWALL	6	7					26'-5"
A642	ENDWALL	6	12					4'-0"
A643	BEAM STOP	6	35					5'-9"
A644	WINGWALL	6	8					19'-4"
A645	WINGWALL	6	8					21'-10"
A646	WINGWALL	6	19					7'-1"
A647	WINGWALL	6	19					6'-11"
A740	ABUT. BEAM	7	14					40'-0"
A741	ABUT. BEAM	7	14					27'-11"
A742	WING BEAM	7	10					25'-0"
A743	WING BEAM	7	10					23'-6"
B641	ENDWALL	6	14	5'-0"				5'-8"
H640	BEAM/WAL	6	93	1'-2"	4'-0"			9'-2"
H540	E.W./RDWY BRK	5	56	3'-1"	0'-5"			3'-11"
HA640	BEAM STOP/E.W.	6	35	2'-1"	3'-10"	1'-4"		7'-3"
L540	ABUT BEAM	5	51	2'-8"	3'-8"			13'-7"
L541	WING BEAM	5	36	2'-8"	2'-8"			11'-7"

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

REVISIONS

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

REINFORCING STEEL CODE

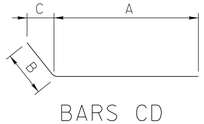
TYPE	SIZE	SERIES
A	5	06

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

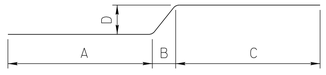
NOTE: THE SUFFIX E FOR BARS SO MARKED DENOTES EPOXY COATED REINFORCEMENT.

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.

BARS A



BARS CD



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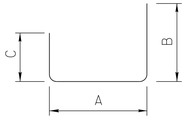
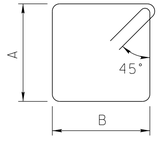
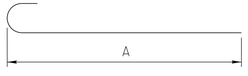


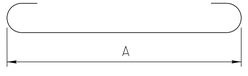
BARS HA



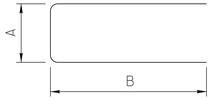
BARS L



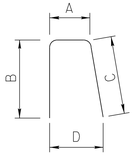
BARS B



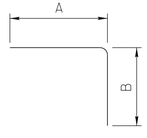
BARS D



BARS H



BARS HD



BARS R

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BILL OF STEEL
STATE ROUTE 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-739

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

2/25/2025 9:40:40 AM C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\ORGANIZATION-CIVILITDOT_STANDARDS\SEED\SHEETS\STRUCTURES.DGN

BILL OF STEEL

BENT NO. 1

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A650	CAP	6	10					56'-8"
A651	CAP	6	2					55'-0"
A950	CAP	9	10					56'-8"
C950	FTG./COLUMN	9	48	7'-7"				9'-2"
A951	COLUMN/CAP	9	48					20'-1"
D850	FOOTING	8	276	11'-6"				13'-4"
D950	CAP	9	10	56'-8"				59'-2"
E950	CAP	9	20	43'-6"	6'-8"	11 3/4"	6'-7"	56'-10"
H650	CAP	6	24	3'-3"	4'-2"			11'-7"
SER								
L650	CAP	6	4	3'-3"	*			205'-4"
				"B" VARIES FROM 3'-3" TO 4'-2" IN INC. OF 7/8" (14 BARS)				
L651	CAP	6	92	3'-3"	4'-2"			15'-7"
T550	CAP/COL./FTG.	5	146	3'-2"				10'-8"
VA850	FOOTING	8	54	2'-6"	2'-6"			5'-0"

BENT NO. 2

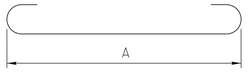
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)
A650	CAP	6	10					56'-8"
A651	CAP	6	2					55'-0"
A950	CAP	9	10					56'-8"
C950	FTG./COLUMN	9	48	7'-7"				9'-2"
A951	FOOTING	9	48					21'-11"
D850	FOOTING	8	276	11'-6"				13'-4"
D950	CAP	9	10	56'-8"				59'-2"
E950	CAP	9	20	43'-6"	6'-8"	11 3/4"	6'-7"	56'-10"
H650	CAP	6	24	3'-3"	4'-2"			11'-7"
SER								
L650	CAP	6	4	3'-3"	*			205'-4"
				"B" VARIES FROM 3'-3" TO 4'-2" IN INC. OF 7/8" (14 BARS)				
L651	CAP	6	92	3'-3"	4'-2"			15'-7"
T550	CAP/COL./FTG.	5	153	3'-2"				10'-8"
VA850	FOOTING	8	54	2'-6"	2'-6"			5'-0"

BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)

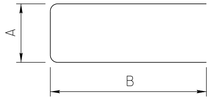
BARS	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH (FEET)

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.

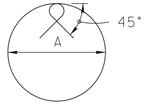
BARS A



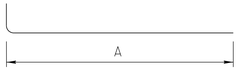
BARS D



BARS H



BARS T



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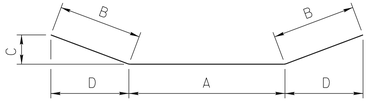
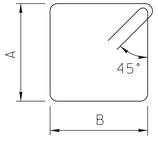
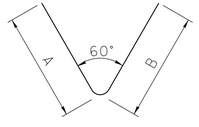


BARS E



BARS L



BARS VA

CONST. NO.: 73008-3245-94

PROJECT NO.	YEAR	SHEET NO.
BR-NH-29(115)	2025	

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 29
OVER STATE ROUTE 61
BRIDGE I.D. NO. 73SR0290009
STATION 107+01.13
ROANE COUNTY
2025

U-94-740

PIN NO.: 124526.00
DESIGN BY: JIALI CONG DATE: 10-2024
DRAWN BY: T.R. KIRK DATE: 10-2024
SUPERVISED BY: JS/GWK DATE: 10-2024
CHECKED BY: ADRIAN BENNETT DATE: 02-2025

3/27/2025 10:50:58 AM C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\ORGANIZATION-CIVIL\TDOT_STANDARDS\SEED\SHEETS\STRUCTURES.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Stephen Woodham

Digitally signed by Stephen Woodham
DN: C=US, E=swoodham@thompsonengineering.com, O="Thompson Engineering, Inc", CN=Stephen Woodham
Date: 2025.02.25 16:02:00-05'00'

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

THOMPSON ENGINEERING
2970 COTTAGE HILL ROAD, SUITE 190
MOBILE, AL 36606

STEPHEN WOODHAM P.E. NO. 124834

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 BORING LAYOUT	G-2
GEOTECHNICAL BORING PROFILE	G-3 – G-4

YEAR	PROJECT NO.	SHEET NO.
2025	BR-NH-29(115)	GEOTECH-SIGN1
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

2/25/2025 11:46:51 AM
P:\2022\Projects\1110\22-1110-0006 TDOT E2368 PIN 124526.00 SR over SR 61 Dgn\Working\Civil\Plans Production\Geotech-Sign1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2023	BR-NH-29(115)	
PIH	2024	BR-NH-29(115)	
PS&E	2025	BR-NH-29(115)	G-1

GEOTECHNICAL INDEX

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

SEALED BY

STEPHEN E. WOODY
REGISTERED ENGINEER
No. 124834
STATE OF TENNESSEE
2/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL INDEX

2/25/2025 11:45:44 AM
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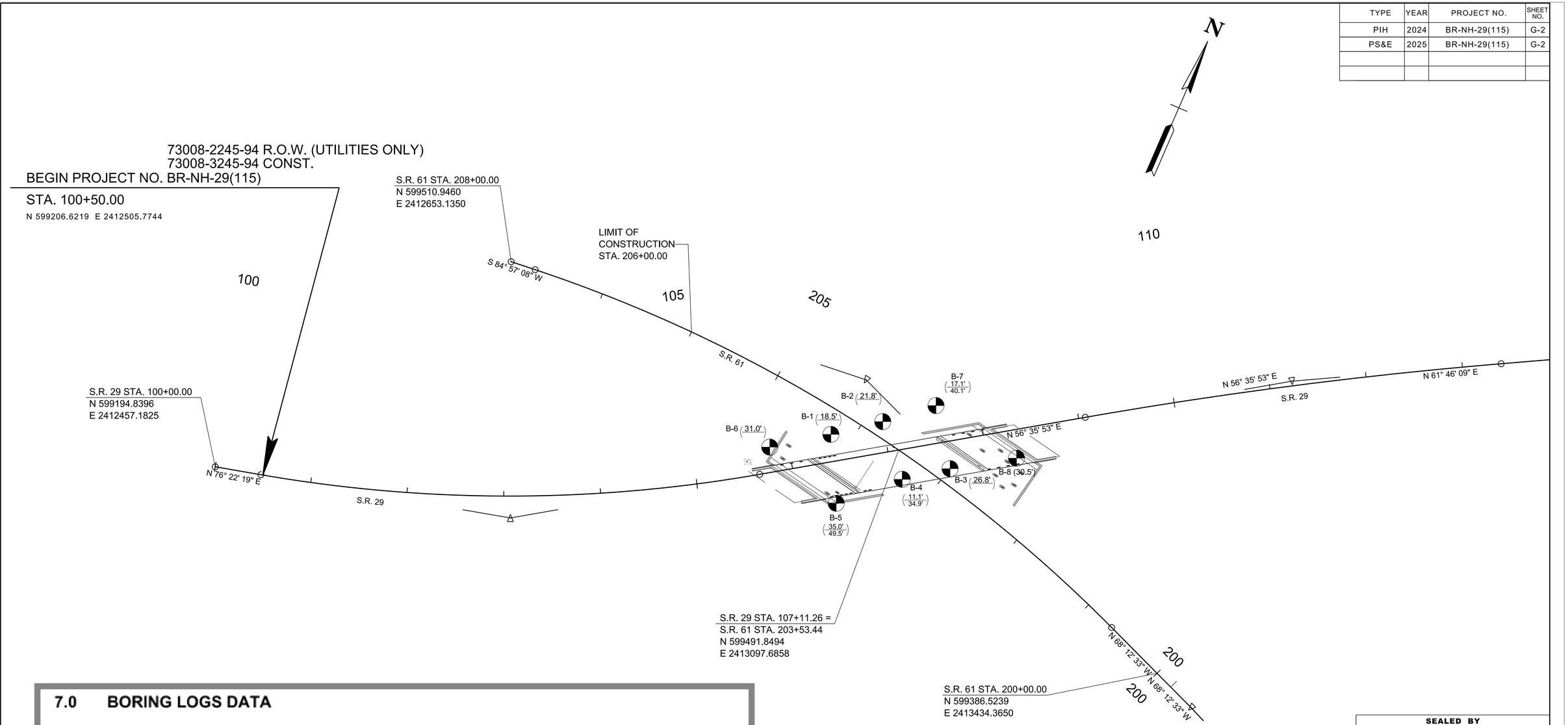
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	G-2
PS&E	2025	BR-NH-29(115)	G-2



7.0 BORING LOGS DATA

Boring	Station	Offset	Elevation	Auger Refusal depth
B1	106+45.15	28 feet	797.47'	18.5 feet
B2	107+00.19	32 feet	798.30'	21.8 feet
B3	107+60.27	29 feet	796.72'	26.8 feet
B4	107+09.68	31 feet	796.66'	11.1 feet
B5	106+38.28	44 feet	812.47'	35 feet
B6	105+80.66	26 feet	810.86'	31 feet
B7	107+57.19	39 feet	815.34'	17.1 feet
B8	108+29.75	30 feet	818.11'	No auger refusal up to 30.5 feet

SEALED BY

STEPHEN E. WOODY REGISTERED ENGINEER No. 124834 STATE OF TENNESSEE

2/25/2025

LEGEND

B-1 (18.5') — BORING LOCATION TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SCALE: 1"= 50'

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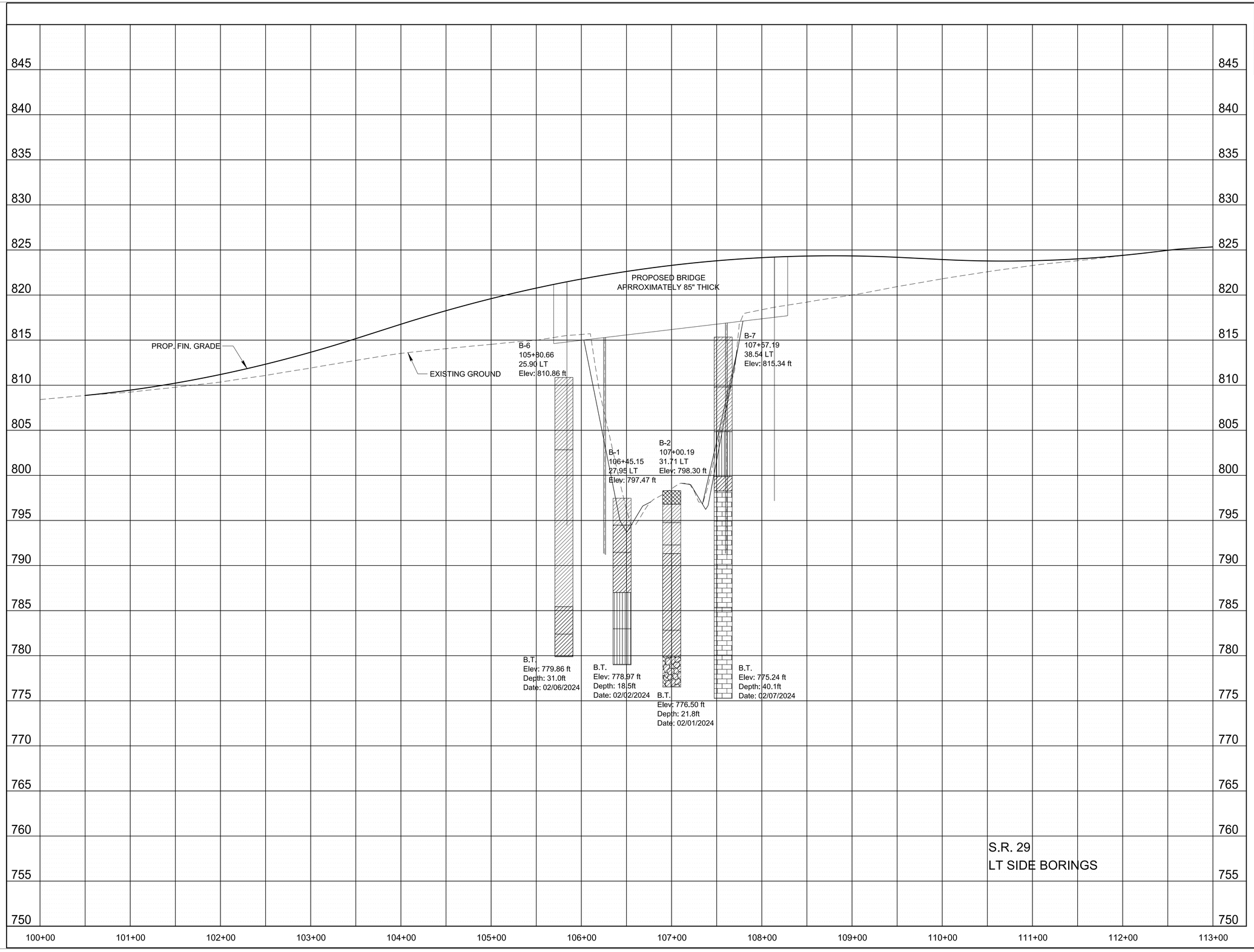
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	G-3
PS&E	2025	BR-NH-29(115)	G-3



LEGEND

- LEAN CLAY
- FAT CLAY
- ELASTIC SILT
- CLAYEY GRAVEL
- GRAVEL /ASPHALT
- LEAN CLAY WITH GRAVEL AND ASPHALT
- CLAYEY SAND
- LIMESTONE

TYPE MATERIAL - SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T. = BORING TERMINATED

SEALED BY

STEPHEN E. WOODHAM
REGISTERED ENGINEER
No. 134814
STATE OF TENNESSEE
2/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	BR-NH-29(115)	G-4
PS&E	2025	BR-NH-29(115)	G-4

PROPOSED BRIDGE
APPROXIMATELY 85° THICK

PROP. FIN. GRADE

EXISTING GROUND

B-8
108+29.75
29.31 RT
Elev: 818.11 ft

B-5
106+38.28
43.11 RT
Elev: 812.47 ft

B-4
107+09.68
30.47 RT
Elev: 796.66 ft

B-3
107+60.27
28.18 RT
Elev: 796.72 ft

B.T.
Elev: 787.61 ft
Depth: 30.5ft
Date: 02/08/2024

NR

B.T.
Elev: 769.92 ft
Depth: 26.8ft
Date: 02/01/2024

B.T.
Elev: 762.97 ft
Depth: 49.5ft
Date: 02/02/2024

B.T.
Elev: 761.76 ft
Depth: 34.9ft
Date: 01/31/2024

S.R. 29
RT SIDE BORINGS

LEGEND

- LEAN CLAY
- FAT CLAY
- ELASTIC SILT
- CLAYEY GRAVEL
- GRAVEL /ASPHALT
- LEAN CLAY WITH GRAVEL AND ASPHALT
- CLAYEY SAND
- LIMESTONE

TYPE MATERIAL - SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T. = BORING TERMINATED

SEALED BY

STEPHEN E. WOODY
REGISTERED ENGINEER
No. 124534
STATE OF TENNESSEE
2/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PSE	2025	BR-NH-29(115)	S-1

SWPPP INDEX OF SHEETS

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3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)	1
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7. UTILITY RELOCATION	3-4
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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☐ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☐ YES ☐ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☐ YES (CHECK ALL THAT APPLY BELOW) ☒ NO

- ☐ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 26.82 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 5.48 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: SR-29: Bridge over SR-61
COUNTY: Roane
PIN: 124526.00

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) 11-13, DRAINAGE MAP SHEET(S) 8, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☒ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☒ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☒ YES ☐ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: 1B

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
Allen loam	B	22.3	0.32
Jefferson loam	A	9.7	0.32
Minvale gravelly silt loam	B	62.4	0.24
Waynesboro loam	B	5.5	0.24

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	3.5	13	98	
PERVIOUS	23.3	87	60	
WEIGHTED CURVE NUMBER OR C-FACTOR =			65	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	3.5	13	98	
PERVIOUS	23.3	87	60	
WEIGHTED CURVE NUMBER OR C-FACTOR =			65	

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 _____)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

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

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

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

3.6. REMOVE AND STORE TOPSOIL.

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

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

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

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

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☐ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
	Misc trib to Emroy River	No	No	No	Yes

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PSE	2025	BR-NH-29(115)	S-2

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

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☐ YES ☒ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 15-FEET FOR ANY WET WEATHER CONVEYANCES IDENTIFIED AS WATERS OF THE US BY THE US ARMY CORPS OF ENGINEERS.

4.1.6. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (1.5.2.)

☒ YES ☐ NO

4.1.7. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1.) ☐ YES ☒ NO

IF YES, EXISTING CONDITIONS DESCRIPTION:_____

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.10. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☒ YES ☐ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☒YES ☐ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☐ YES ☐ NO ☒ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☒ YES ☐ NO ☒ N/A

4.2.6. A SEDIMENT BASIN, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☒ YES ☐ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-1	201+76.10 LT	203+47.38 LT		0.021

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) 1B.

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☒ YES ☐ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 1B.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 2-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAS A THREE STAGED EPSC PLAN BEEN PREPARED FOR THE PROJECT (5.5.2.)?

YES ☒ NO ☐

PLEASE NOTE THAT A THREE STAGED EPSC PLAN IS REQUIRED FOR ALL TDOT PROJECTS FOR WHICH AN NPDES PERMIT IS REQUIRED.

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5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (5.5.3.4.) (10. "STEEP SLOPE")? ☐ YES ☐ NO ☒ N/A

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 10 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

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

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

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

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

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

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

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

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

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

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

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

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

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☒ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

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

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

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

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

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

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

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

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

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

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

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

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

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

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

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

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

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (5.5.3.7.a).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (5.5.3.8.)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

10. STORMWATER MANAGEMENT (5.5.3.11.h)

10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (5.5.3.6.c): _____

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

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

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

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

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REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (5.5.3.7.b)

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

10.7. OTHER MATERIALS

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

☒ FERTILIZERS AND LIME

☒ PESTICIDES AND/OR HERBICIDES

☒ DIESEL AND GASOLINE

☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

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

☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

☒ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.

☒ WATER USED TO CONTROL DUST. (3.5.3.1.n)

☒ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.

☒ UNCONTAMINATED GROUNDWATER OR SPRING WATER.

☒ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.

☐ OTHER: _____

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

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

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

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

☐ YES ☒ NO

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

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

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.4.4. ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.5. SPILL NOTIFICATION (6.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

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13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

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

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (5.4.)

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

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

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

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

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

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

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

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

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

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

13.4. MAKING PLANS ACCESSIBLE

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

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

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

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

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

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

13.5. NOTICE OF TERMINATION (9.0.)

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

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

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

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

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

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

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

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

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

13.6. RETENTION OF RECORDS (7.1.)

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PSE	2025	BR-NH-29(115)	S-7

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

Keven Brown
AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

KEVEN BROWN
PRINTED NAME

TEAM LEAD
TITLE

2-3-25
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	NRS24.174	4/7/25
CORPS OF ENGINEERS (USACE)			
TVA 26A			
TDEC CGP			
OTHER:			

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PSE	2025	BR-NH-29(115)	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		197+44.44 LT	1.0	6.37			N/A	N/A	Misc trib to Emory River	
OUT-2		197+98.28 RT	2.5	8.32			N/A	N/A	Misc trib to Emory River	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN