

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ELIZABETH CARDWELL DAVID

Digitally signed by ELIZABETH CARDWELL DAVID
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TENNESSEE DEPARTMENT OF TRANSPORTATION
ADMINISTRATION BUILDING, FIRST FLOOR
300 BENCHMARK PLACE
JACKSON, TN 38301
ELIZABETH DAVID, P.E. NO. 124129

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

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC DESIGN DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B – 2B3
GENERAL NOTES	2C – 2C1
SPECIAL NOTES	2D
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PROPOSED PROFILE(S)	4C – 5C
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PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S)	11
DRAINAGE MAP(S)	12 – 13
CULVERT SECTION(S)	14 – 16
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ROADWAY CROSS SECTIONS	26 – 53
SIDE ROAD CROSS SECTIONS	54 – 97
TRAFFIC CONTROL PLANS	T1 – T8A

YEAR	PROJECT NO.	SHEET NO.
2026	HSIP-22(91)	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\Roadway-Sign1.dgn

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Index Of Sheets
SEE SHEET NO. 1A

PROJECT TO BE LET
WITH PIN 133610.00

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

CARROLL COUNTY

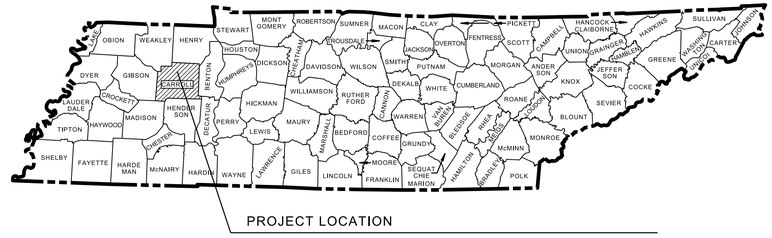
S.R. 22
FROM: L.M. 15.30 (NEAR OLD LOOP 22/THORNE LANE)
TO: L.M. 21.62 (SOUTH OF SR-124 OLD McKENZIE ROAD)

PLAN-IN-HAND
MISCELLANEOUS SAFETY IMPROVEMENTS & J-TURN INTERSECTION

STATE HIGHWAY NO. 22

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

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	HSIP-22(91)	
STATE PROJ. NO.	09006-3219-94	



BRIDGE ID. # 09SR0220019, 09SR0220021& 09SR0220022

09006-3219-94
END PROJECT NO. HSIP-22(91) CONST.

STA. 125+75.00 S.R. 22

N 656163.6034 E 1232949.8615

09006-2219-94
END PROJECT NO. HSIP-22(91) R.O.W.

STA. 108+36.01

N 654426.8203 E 1233003.7883

09006-2219-94
BEGIN PROJECT NO. HSIP-22(91) R.O.W.

STA. 105+35.00

N 654136.5309 E 1233082.2212

09006-3219-94
BEGIN PROJECT NO. HSIP-22(91) CONST.

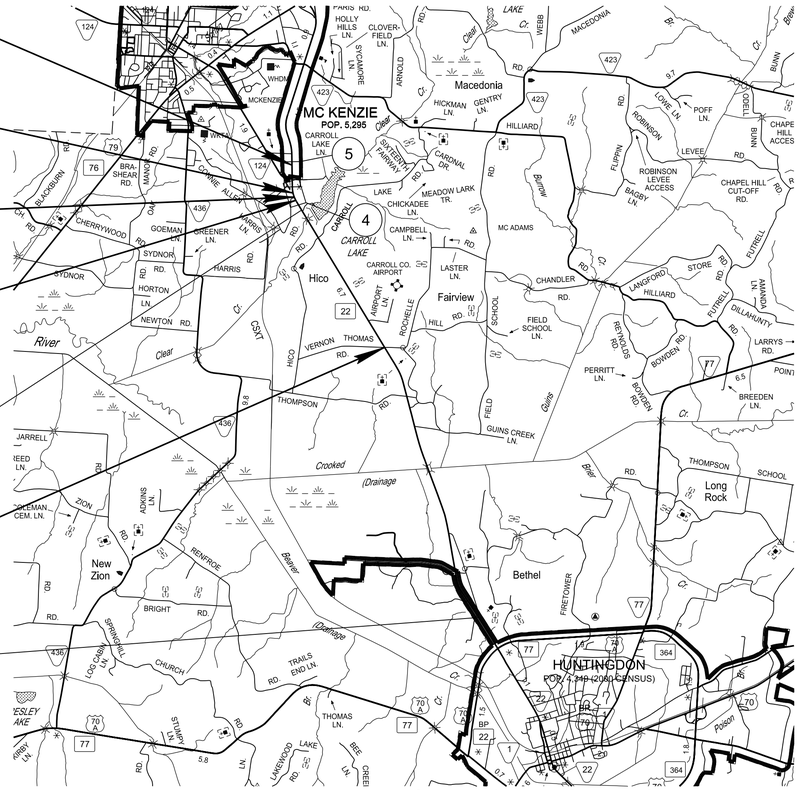
STA. 102+35.00 S.R. 22

N 653862.9874 E 1233204.6680

END NO PLANS CONTRACT WORK
L.M. 21.05

ADJACENT PROJECT PIN 133610.00
L.M. 18.77 - L.M. 19.14

BEGIN NO PLANS CONTRACT WORK
L.M. 15.30



SCALE: 1"= 5280'

0 1 2 3 MILES

R.O.W. LENGTH	0.057 MILES
ROADWAY LENGTH	5.831 MILES
BRIDGE LENGTH	0.119 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	5.950 MILES

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

EXCLUSIONS	
L.M. TO L.M.	LENGTH (FT.)
18.77 - 19.14	1,953.6
TOTAL=	1,953.6

ROAD TO BE CONSTRUCTED WHILE UNDER TRAFFIC

TRAFFIC COUNTER & WEATHER STATIONS	
STATION	LOG MILE
TRAFFIC COUNTY #99	17.348

POSTED SPEED LIMITS	
L.M. 15.30 - L.M. 16.11	55 MPH
L.M. 16.11 - L.M. 21.62	65 MPH

SURVEY 10/21/20	TRAFFIC DATA	
UPDATE 7/22/26	ADT (2026)	10,000
	ADT (2046)	13,870
	DHV (2046)	1,480
	D	55 - 45
	T (ADT)	16 %
	T (DHV)	11 %
	V	55, 65 MPH

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

SEALED BY
ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE
09/01/2026

APPROVED:
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:
WILL REID, COMMISSIONER

SPECIAL NOTES

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

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

TDOT PROJECT MANAGER: ELI JONES, REG. 4

DESIGNER : RYAN LINDSAY, REG. 4 CHECKED BY : ELIZABETH DAVID, P.E., REG. 4

P.E. NO. 09006-1219-94 (DESIGN)

PIN NO. 128893.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	HSIP-22(91)	1A
PS&E	2026	HSIP-22(91)	1A

ROADWAY INDEX

SHEET NAME	SHEET NO.
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NO PLANS CONTRACT DOCUMENTS (INFO ONLY)	R1 – R12
TRAFFIC CONTROL PLANS	T1 – T8A
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1
UTILITY PLANS	U1–1

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00		**STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS**
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS AND TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	01-30-26	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
10-101.00		**ROADWAY DESIGN STANDARDS**
RD-CTS-R1		CONTEXTUAL TYPICAL SECTIONS RURAL ARTERIAL
RD-CTS-R3		CONTEXTUAL TYPICAL SECTIONS RURAL LOCAL
RD18-TS-2A	1-30-26	RURAL LOCAL ROADS AND STREETS
RD18-TS-5A	1-30-26	RURAL MINOR ARTERIAL (2-3 LANE)
RD18-TS-6D		RURAL MAJOR ARTERIAL DEPRESSED MEDIAN (4-6 LANE)
RD18-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD18-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD-UD-3	01-09-24	UNDERDRAIN DETAILS
RD-UD-4	06-28-19	UNDERDRAIN LATERAL DETAILS
RD-UD-7	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-8	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
10-102.00		**AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS**
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-SEW-1A	01-30-26	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
10-104.00		**CATCH BASINS AND MANHOLES**
D-CB-38S	03-04-21	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-99	02-20-20	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES

DWG.	REV.	DESCRIPTION
10-106.00		**ROADWAY, PAVEMENT APPURTENANCES, AND FENCES**
RP-DHO-2	07-30-24	MEDIAN OPENING DETAILS FOR RESTRICTED CROSSING & J-TURN INTERSECTIONS
RP-I-5	05-01-20	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	04-21-25	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS
RP-SC-1	05-04-22	SLOPING CONCRETE CURB AND CURB AND GUTTER
S-F-1	03-01-23	HIGH VISIBILITY FENCE
S-RP-2	07-31-26	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
10-108.00		**SAFETY DESIGN AND GUARDRAILS**
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-6	04-30-26	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-GR31-1	10-31-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRC-5	10-31-25	GUARDRAIL CONNECTION TO BRIDGE ENDS (TRAILING ENDS)
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
10-109.00		**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-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	06-10-2014	FILTER SOCK
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-11	03-16-17	CULVERT PROJECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD

SEALED BY

ELIZABETH G. DAVID
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AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	HSIP-22(91)	1A1
PS&E	2026	HSIP-22(91)	1A1

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-200.00		**SIGN**
T-S-9	7-30-25	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	7-30-25	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	07-30-25	DELINEATOR AND MILEPOST DETAILS
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS
T-S-23A	07-30-25	MULTI-DIRECTOINAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-26	07-30-25	SIGNING PLAN FOR RESTRICTED CROSSING & J-TURN INTERSECTIONS
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-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-15A	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES
T-M-18	07-31-26	FLEXIBLE DELINEATOR DETAILS
T-M-18A	07-31-26	DELINEATOR MOUNTING DETAILS
T-M-19	01-24-25	PAVEMENT MARKING DETAILS FOR RESTRICTED CROSSING & J-TURN INTERSECTION.
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-18	07-31-26	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-40	03-26-25	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-26-25	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB1	03-26-25	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	07-22-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

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09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC DESIGN DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2
P.I.H.	2026	HSIP-22(91)	2
PS&E	2026	HSIP-22(91)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 09006-3219-94
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.5
	201-01	CLEARING AND GRUBBING	LS	0.5
(1)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	0.2
	202-02.01	REMOVAL OF PIPE (24" CMP, STA. 102+68.23)	L.F.	28
	202-02.02	REMOVAL OF PIPE (24" CMP, STA. 103+91.61)	L.F.	28
	202-02.03	REMOVAL OF PIPE (18" CMP, STA. 108+10.71)	L.F.	28
(2)	202-02.04	REMOVAL OF PIPE (18" RCP, STA. 117+65.62)	L.F.	20
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	3398
(3) (4)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	4385
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	516
	203-06	WATER	M.G.	40
(5)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	4
(6)	209-03.21	FILTER SOCK (12 INCH)	L.F.	58
(6)	209-05	SEDIMENT REMOVAL	C.Y.	64
(6)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	360
(6)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1697
(6)	209-09.01	SANDBAGS	EACH	25
(6)	209-20.04	POLYETHYLENE SHEETING (10 MIL.)	S.Y.	200
(6)	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	9
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	4688
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	25
	307-01.21	ASPHALT CONCRETE MIX (PG70-22) - GRADING A-S	TON	200
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) - GRADING A	TON	2030
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) - GRADING B-M2	TON	777
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	6
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	2741
	411-02.10	ASPHALT CONCRETE MIX (PG70-22) - GRADING D	TON	474
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	0.3
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	18
(7)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	303
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	162
	611-07.31	18IN END WALL (SIDE DRAIN)	EACH	10
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
(8)	611-09.03	CAPPING EXISTING CATCH BASIN	EACH	1
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	3
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	1
(6) (9)	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	72
(10)	701-01.10	CONCRETE SIDEWALK (SPLITTER AND MEDIAN ISLANDS)	S.F.	7148
(10)	702-01	CONCRETE CURB	C.Y.	48
(10)	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	100
(11)	705-02.10	GUARDRAIL TRANSITION 27IN TO 31IN	EACH	4
(11)	705-04.21	GUARDRAIL DELINEATION ENHANCEMENT	L.F.	9976
(11) (12)	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	42
(11) (12)	705-06.10	GR TERMINAL TRAILING END (TYPE 13) MASH TL-3	EACH	3
(11)	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	4
(11)	706-01	GUARDRAIL REMOVED	L.F.	200
(11) (12)	706-10.80	MICHIGAN AND MODIFIED MICHIGAN END SHOE	EACH	3
(6)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	50
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	3
(6) (9)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	136
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	397
	710-05	LATERAL UNDERDRAIN	L.F.	39
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	1
	710-06.14	LATERAL UNDERDRAIN ENDWALL (5:1)	EACH	1
(11)	711-04.21	CONCRETE BARRIER DELINEATION ENHANCEMENT	L.F.	1560
	712-01	TRAFFIC CONTROL	LS	0.5
(13)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	6180
(14)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	4
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	536
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	309

FOOTNOTES

(1) TO BE USED FOR STRUCTURES LISTED ON SHEET 2F.
(2) APPROX. 55 L.F. OF EXISTING PIPE TO BE PLUGGED AND ABANDONED.
(3) INCLUDES 29 C.Y. FOR TERMPORARY CONSTRUCTION EXITS. TO BE INSTALLED AT LOCATIONS DIRECTED BY THE ENGINEER IN THE FIELD.
(4) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(5) TO BE USED TO PLUG AND ABANDON MEDIAN DRAIN AT STA. 117+65.62.
(6) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE TDOT ENGINEER. SEE EPSC PLAN SHEETS FOR FURTHER DETAILS.
(7) THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.
(8) TO BE USED TO CAP AND ABANDON MEDIAN STRUCTURE AT STA. 117+66.16.
(9) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
(10) ANY CONCRETE TRUCK AND/OR CONCRETE EQUIPMENT WASHED OUT WITHIN THE PROJECT LIMITS MUST BE CONDUCTED IN A STRUCTURE DESIGNED TO HOLD THE MIXTURE.
(11) SEE NO PLANS CONTRACT SHEETS R1 THRU R12 FOR ADDITIONAL DETAILS.
(12) TO BE USED FOR TRAILING TERMINAL LOCATIONS AS SHOWN ON SHEET 2F ONLY.
(13) THE CONTRACTOR SHALL PROVIDE AN APPROVED ANCHORED BARRIER OR ANOTHER APPROVED BARRIER THAT PROVIDES MINIMAL DEFLECTION. SEE TDOTS QUALIFIED PRODUCTS LIST FOR APPROVED PRODUCTS.
(14) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(15) SIGN FACE, SUPPORT, INSTALLATION AND HARDWARE TO BE INCLUDED IN THIS ITEM. SEE SHEET T2 FOR ADDITIONAL SIGNING TABULATION DETAILS.
(16) THIS CONSTRUCTION SIGNING IS TO BE AS MINIMUM. OTHER SIGNS AS DIRECTED BY THE TDOT ENGINEER MAY BE RQUIRED DURING DIFFERENT PHASES. ALL SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
(17) TO BE USED AS TEMPORARY PAVEMENT MARKING ONLY.
(18) TO BE USED AT MEDIAN CROSS-OVER AND INTERSECTION LOCATIONS ONLY.
(19) TO BE USED FOR NO PLANS CONTRACT SIGNS.
(20) TO BE USED FOR SIGNS PLACED IN THE MEDIAN.
(21) SIGN FACE, SUPPORT, INSTALLATION AND HARDWARE TO BE INCLUDED IN THIS ITEM. SEE SHEET 24 & SHEET 25 FOR ADDITIONAL SIGNING DETAILS.
(22) FOR USE AS PERMANENT PAVEMENT MARKING ONLY.
(23) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE BID FOR THERMOPLASTIC.
(24) TO BE USED AT THE INTERSECTION OF SR-22 AND SR-124/DR SMITH LANE.
(25) INCLUDES 343 S.Y. FOR TEMPORARY CONSTRUCTION EXITS AND 323 S.Y. FOR TYPE 1 CULVERT PROTECTION.
(26) INCLUDES 17 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(27) INCLUDES 1384 S.Y. FOR SPECIAL DITCHES.

SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2-1
P.I.H.	2026	HSIP-22(91)	2-1
PS&E	2026	HSIP-22(91)	2-1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 09006-3219-94
(15) (16)	712-05.03	WARNING LIGHTS (TYPE C)	EACH	137
	712-06	SIGNS (CONSTRUCTION)	S.F.	812
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
(17)	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	21226
	713-02.11	REMOVAL OF EXISTING DELINEATORS	EACH	2
(18)	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	24
	713-02.21	SIGN POST DELINEATION ENHANCEMENT	L.F.	1120
(19)	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	871
(20)	713-11.21	P POST SLIP BASE	EACH	24
(19)	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	566
(19)	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	1298
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.8
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
(21)	713-16.20	SIGNS (R5-1)	EACH	10
(21)	713-16.21	SIGNS (R1-2, R6-1L, R6-1R)	EACH	2
(21)	713-16.22	SIGNS (D11-1)	EACH	3
(21)	713-16.23	SIGNS (R1-2, R3-1)	EACH	2
(21)	713-16.24	SIGNS (R6-1L)	EACH	6
(21)	713-16.25	SIGNS (R5-1A)	EACH	8
(21)	713-16.26	SIGNS (M3-4, M6-1L, TN-6B)	EACH	1
(21)	713-16.27	SIGNS (R3-5R)	EACH	2
(21)	713-16.28	SIGNS (TN-6C, TN-39, MISC.)	EACH	1
(21)	713-16.29	SIGNS (R3-4)	EACH	2
(21)	713-16.30	SIGNS (R3-1, R5-1, R6-1R)	EACH	2
(21)	713-16.31	SIGNS (R1-1)	EACH	4
(21)	713-16.32	SIGNS (M3-4, M6-1R, TN-6B)	EACH	1
(21)	713-16.33	SIGNS (M3-1, TN-6D)	EACH	1
(21)	713-16.34	SIGNS (W2-1, W13-1P)	EACH	4
(21)	713-16.35	SIGNS (R1-1, R6-1L, R6-1R, R6-3A)	EACH	1
(21)	713-16.36	SIGNS (M2-1, TN-6B)	EACH	1
(21)	713-16.37	SIGNS (W2-2R, W13-1P)	EACH	2
(21)	713-16.38	SIGNS (R2-1)	EACH	1
(21)	713-16.39	SIGNS (M3-3, TN-6C)	EACH	1
(21)	713-16.50	REMOVE AND REPLACE SIGN (DISCOVER TN - COTTON JUNCTION)	EACH	1
	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	84
(22) (23)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	210
(22) (23)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	101
(22) (23)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	8
(22) (23)	716-02.08	PLASTIC PAVEMENT MARKINGS (8" DOTTED LINE)	L.F.	227
(22) (23)	716-02.11	PLASTIC PAVEMENT MARKINGS (6" DOTTED LINE)	L.F.	146
(22) (23)	716-02.15	PLASTIC PAVEMENT MARKING (U TURN ARROW)	EACH	4
(22) (23)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	199
(22)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	1.3
	717-01	MOBILIZATION	LS	0.5
(24)	730-26.07	FLASHING WARNING BEACON (AMBER LENS)	EACH	4
(24)	730-26.08	FLASHING WARNING BEACON (RED LENS)	EACH	4
(6) (25)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	666
(6)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	3040
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	165
(26)	801-03	WATER (SEEDING AND SODDING)	M.G.	50
(27)	803-01	SODDING (NEW SOD)	S.Y.	3360

FOOTNOTES

(1) TO BE USED FOR STRUCTURES LISTED ON SHEET 2F.
(2) APPROX. 55 L.F. OF EXISTING PIPE TO BE PLUGGED AND ABANDONED.
(3) INCLUDES 29 C.Y. FOR TERMPORARY CONSTRUCTION EXITS. TO BE INSTALLED AT LOCATIONS DIRECTED BY THE ENGINEER IN THE FIELD.
(4) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(5) TO BE USED TO PLUG AND ABANDON MEDIAN DRAIN AT STA. 117+65.62.
(6) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE TDOT ENGINEER. SEE EPSC PLAN SHEETS FOR FURTHER DETAILS.
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SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
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COMMERCE
NO. 124199
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

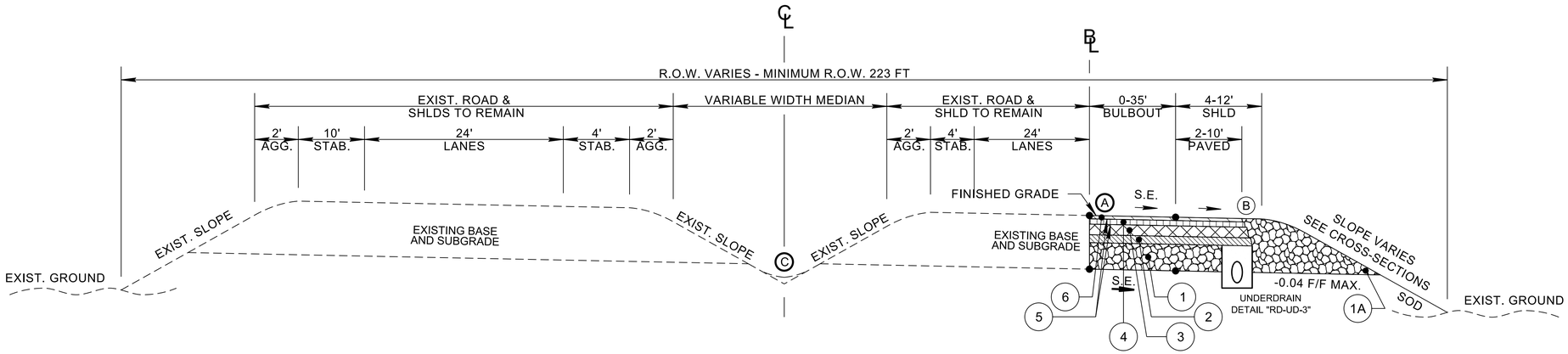
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	2B
FUNCT.	2024	HSIP-22(91)	2B
P.I.H.	2026	HSIP-22(91)	2B
PS&E	2026	HSIP-22(91)	2B

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

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

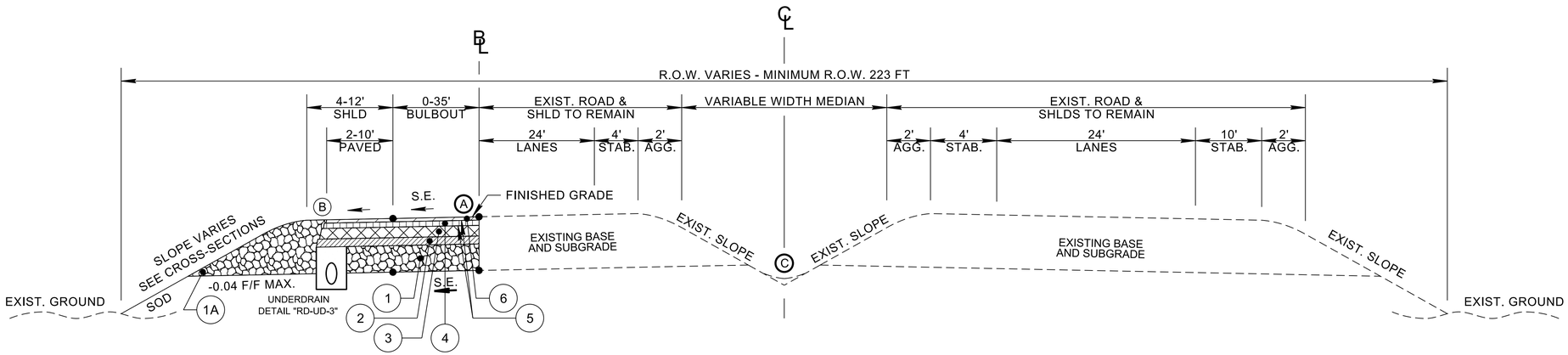
Ⓒ SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.



TRANSITION DETAILS		
STA. 105+50.00 OFFSET - 60.31' 1 - 10 FT SHOULDER	STA. 105+88.38 OFFSET - 87.90' 1 - 35 FT LANE 1 - 2 FT SHOULDER	STA. 107+43.75 OFFSET - 59.64' 1 - 10 FT SHOULDER

SUPERELEVATED SECTION
STATE ROUTE 22
(BASED ON STD. DWG. RD18-TS-6D)

SOUTHBOUND BULBOUT
S.R. 22 FROM STA. 105+33.48 (RT) TO STA. 107+73.82 (RT)
[BL_SB_BULB FROM STA. 105+31.34 TO STA. 107+65.54]



NORTHBOUND BULBOUT
S.R. 22 FROM STA. 122+70.79 (LT) TO STA. 125+11.07 (LT)
[BL_NB_BULB FROM STA. 128+84.69 TO STA. 126+44.38]

TANGENT SECTION
STATE ROUTE 22
(BASED ON STD. DWG. RD18-TS-6D)

TRANSITION DETAILS		
STA. 123+12.90 OFFSET - 60.06' 1 - 10 FT SHOULDER	STA. 124+57.35 OFFSET - 86.90' 1 - 35 FT LANE 1 - 2 FT SHOULDER	STA. 124+94.44 OFFSET - 59.96' 1 - 10 FT SHOULDER

SEE PROPOSED PAVEMENT SCHEDULE ON SHEET 2B3

SEALED BY

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AGRICULTURE
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NO. 124199
STATE OF TENNESSEE
09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	2B1
FUNCT.	2024	HSIP-22(91)	2B1
P.I.H.	2026	HSIP-22(91)	2B1
PS&E	2026	HSIP-22(91)	2B1

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

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

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

SOUTHBOUND

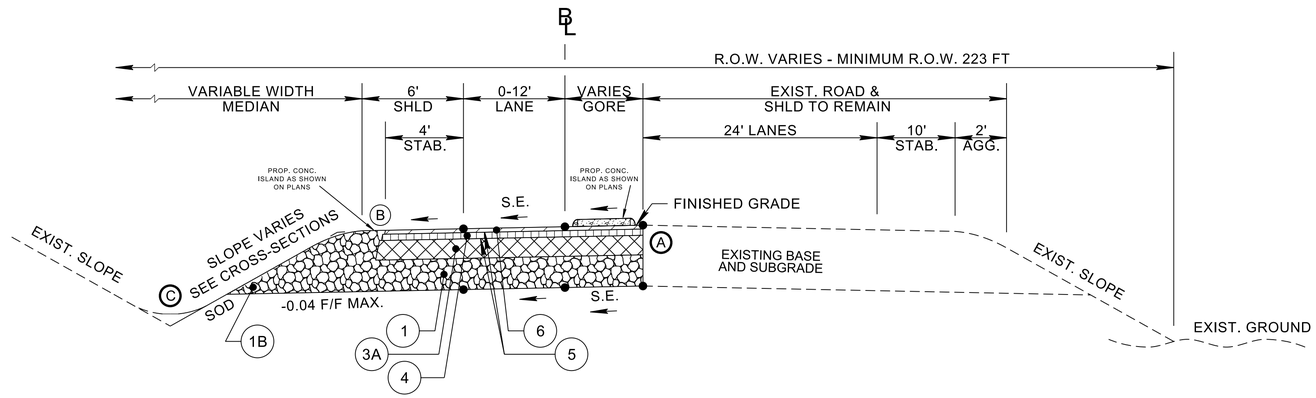
S.R. 22 FROM STA. 110+00.00 (LT) TO STA. 105+51.91 (RT)
[BL_SB_JTURN FROM STA. 103+45.23 TO STA. 108+11.34]

TRANSITION DETAILS		
STA. 106+50.00 OFFSET - 3.50' 1 - 10 FT GORE 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 108+50.00 OFFSET - 6.80' 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 110+00.00 OFFSET - 18.24' 1 - 4 FT SHOULDER

NORTHBOUND

S.R. 22 FROM STA. 120+50.00 (RT) TO STA. 124+92.61 (LT)
[BL_NB_JTURN FROM STA. 120+50.00 TO STA. 125+07.61]

TRANSITION DETAILS		
STA. 120+50.00 OFFSET - 20.70' 1 - 4 FT SHOULDER	STA. 122+00.00 OFFSET - 8.52' 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 124+00.00 OFFSET - 1.63' 1 - 10 FT GORE 1 - 12 FT LANE 1 - 4 FT SHOULDER



J-TURN SECTIONS
STATE ROUTE 22

NORTHBOUND

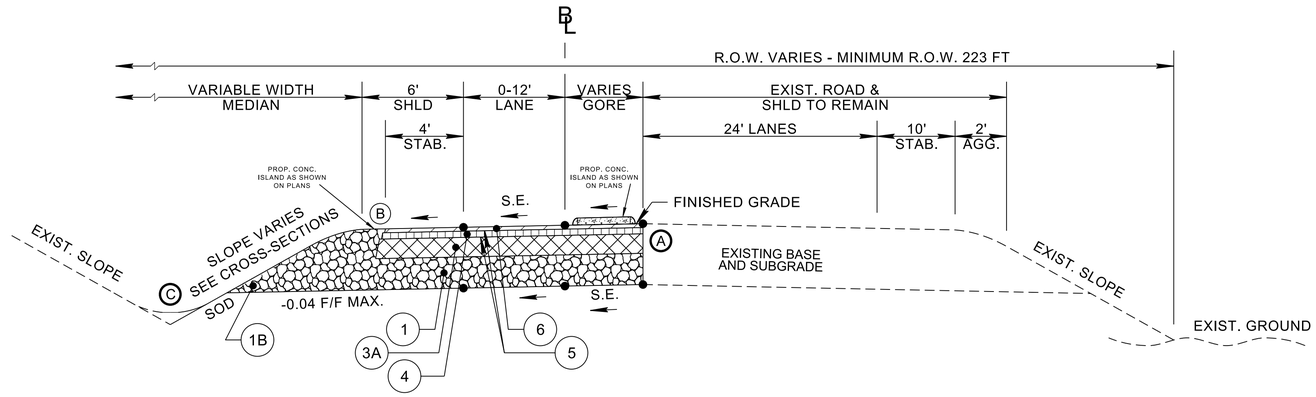
S.R. 22 FROM STA. 112+60.67 (RT) TO STA. 117+35.67 (LT)
[BL_NB_INT FROM STA. 112+60.64 TO STA. 117+43.98]

TRANSITION DETAILS		
STA. 112+60.67 OFFSET - 20.81' 1 - 4 FT SHOULDER	STA. 114+10.67 OFFSET - 8.67' 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 116+10.67 OFFSET - 7.46' 1 - 16 FT GORE 1 - 12 FT LANE 1 - 4 FT SHOULDER

SOUTHBOUND

S.R. 22 FROM STA. 116+95.67 (RT) TO STA. 121+70.67 (LT)
[BL_SB_INT FROM STA. 127+12.75 TO STA. 122+29.33]

TRANSITION DETAILS		
STA. 118+20.67 OFFSET - 7.44' 1 - 16 FT GORE 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 120+20.67 OFFSET - 8.31' 1 - 12 FT LANE 1 - 4 FT SHOULDER	STA. 121+70.67 OFFSET - 19.87' 1 - 4 FT SHOULDER



RESTRICTED INTERSECTION LANES
STATE ROUTE 22

SEE PROPOSED PAVEMENT SCHEDULE ON SHEET 2B3

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09/01/2026

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STATE OF TENNESSEE
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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	2B2
FUNCT.	2024	HSIP-22(91)	2B2
P.I.H.	2026	HSIP-22(91)	2B2
PS&E	2026	HSIP-22(91)	2B2

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

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

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

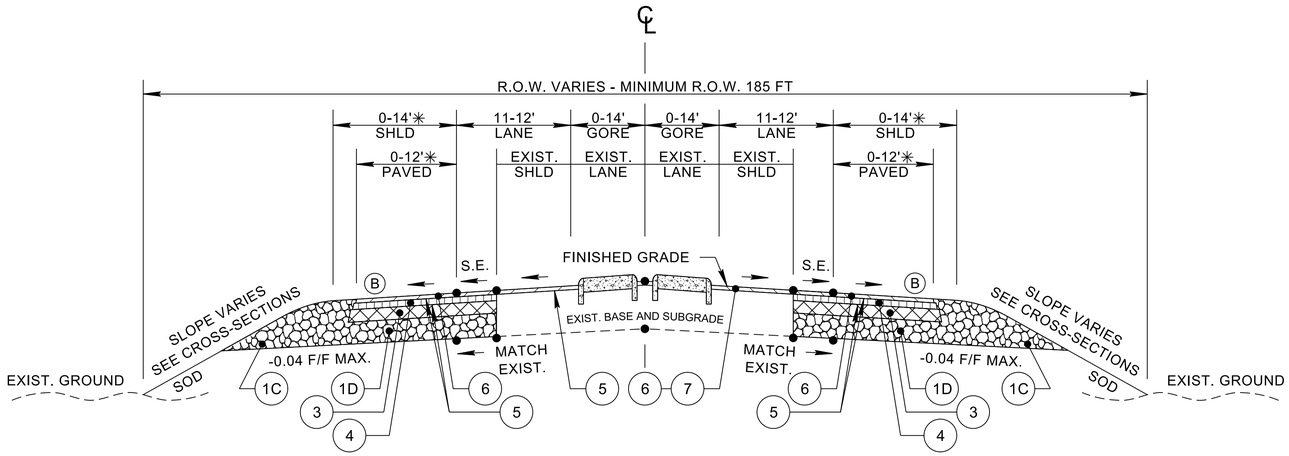
S.R. 124

TRANSITION DETAILS*			
LEFT		RIGHT	
STA. 28+60.00 1 - 12 FT LANE 1 - 5 FT SHOULDER	STA. 29+49.51 1 - 12 FT LANE 1 - 12 FT SHOULDER	STA. 28+60.00 1 - 11 FT LANE 1 - 4 FT SHOULDER	STA. 29+49.51 1 - 14 FT GORE 1 - 12 FT LANE 1 - 10 FT SHOULDER

DR. SMITH LN.

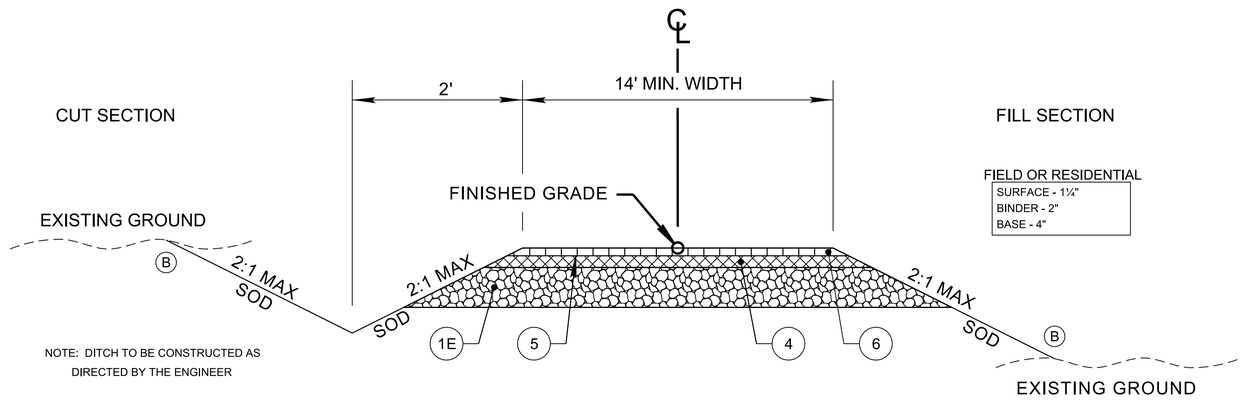
TRANSITION DETAILS*			
LEFT		RIGHT	
STA. 30+48.84 1 - 14 FT GORE 1 - 12 FT LANE 1 - 11 FT SHOULDER	STA. 31+40.00 1 - 11 FT LANE	STA. 30+48.84 1 - 12 FT LANE 1 - 12 FT SHOULDER	STA. 31+75.00 1 - 11 FT LANE

* PROVIDED SHOULDER WIDTHS ARE MEASURED FROM THE SR-22 OR SR-124/DR.SMITH CENTERLINES, RESPECTIVELY. SEE SHEET 5B FOR LAYOUT OF THE INTERSECTION AREA.



TANGENT SECTION
STATE ROUTE 124/DR. SMITH LN.
(BASED ON STD. DWG. RD18-TS-2A/5A)

STA. 28+60.00 TO STA. 29+49.51 &
STA. 30+48.84 TO STA. 31+75.00



TYPICAL SECTION
PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

SEE PROPOSED PAVEMENT SCHEDULE ON SHEET 2B3

SEALED BY

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STATE OF TENNESSEE
09/01/2026

NOT TO SCALE

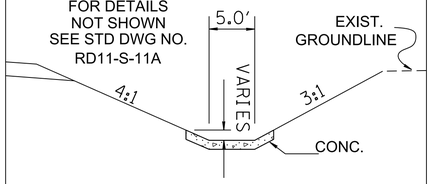
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2B3
P.I.H.	2026	HSIP-22(91)	2B3
PS&E	2026	HSIP-22(91)	2B3

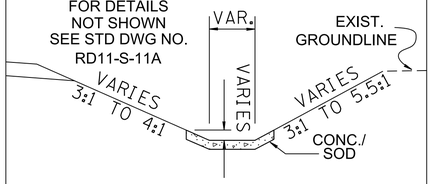
SOUTHBOUND BULBOUT



5.0' FLAT BOTTOM CONCRETE DITCH

SB BULBOUT RIGHT STA. 105+41.75 TO STA. 107+36.14
[SR-22 RIGHT STA. 105+44.21 TO STA. 107+43.92]

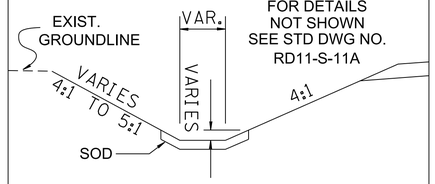
SOUTHBOUND J-TURN



FLAT BOTTOM CONCRETE/SODDED DITCH

SB J-TURN LEFT STA. 107+25.00 TO STA. 103+45.23
[SR-22 MEDIAN STA. 106+25.50 TO STA. 110+00.00]

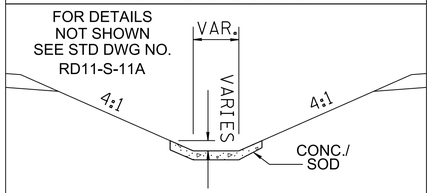
NORTHBOUND INTERSECTION



FLAT BOTTOM SODDED DITCH

NB INT LEFT STA. 112+60.65 TO STA. 116+00.00
[SR-22 MEDIAN STA. 112+60.72 TO STA. 115+97.56]

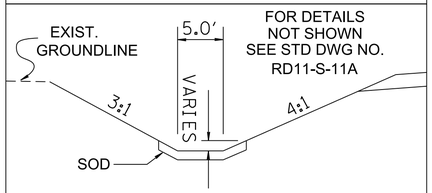
SOUTHBOUND INTERSECTION/ NORTHBOUND J-TURN



FLAT BOTTOM CONCRETE/SODDED DITCH

SB INT LEFT STA. 125+75.00 TO NB J-TURN LEFT STA. 124+15.00
[SR-22 MEDIAN STA. 118+27.45 TO STA. 124+13.46]

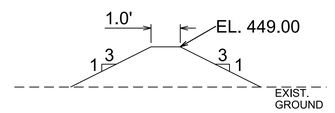
NORTHBOUND BULBOUT



5.0' FLAT BOTTOM SODDED DITCH

NB BULBOUT RIGHT STA. 128+42.59 TO STA. 126+65.00
[SR-22 LEFT STA. 123+12.92 TO STA. 124+90.43]

NORTHBOUND BULBOUT BERM



1.0' PERMANENT DRAINAGE BERM

NB BULBOUT RIGHT STA. 127+55.00 TO STA. 126+65.00
SR-22 LEFT STA. 124+00.43 TO STA. 124+90.42

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE @ 10" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(2) ASPHALT CONCRETE MIX @ 3.00" THICK (APPROX. 318.8 LBS./S.Y.) ITEM 307-01.21 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A-S"
(1A) MINERAL AGGREGATE BASE @ 20.25" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(3) ASPHALT CONCRETE MIX @ 4.00" THICK (APPROX. 460.0 LBS./S.Y.) ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"
(1B) MINERAL AGGREGATE BASE @ 19.50" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(3A) ASPHALT CONCRETE MIX @ 6.25" THICK (APPROX. 718.8 LBS./S.Y.) ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A" (TO BE APPLIED IN TWO LIFTS OF 3.00" AND 3.25")
(1C) MINERAL AGGREGATE BASE @ 15.25" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(4) ASPHALT CONCRETE MIX @ 2.00" THICK (APPROX. 226.0 LBS./S.Y.) ITEM 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"
(1D) MINERAL AGGREGATE BASE @ 8.00" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(5) TACK COAT (TC) ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) [COLD PLANE] (SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD)
(1E) MINERAL AGGREGATE BASE @ 4.00" THICK ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(6) ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25" THICK (APPROX. 132.5 LBS./S.Y.) ITEM 411-02.10 ACS MIX(PG70-22) GRADING "D" ASPHALT
	(7) COLD PLANING @ 1.25" THICK (APPROX. 131.25 LBS./S.Y.) ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT

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PAVEMENT SCHEDULE

SHEET 4 OF 4

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GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

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

GUARDRAIL

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

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

DRAINAGE

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

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

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

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

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

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

MISCELLANEOUS

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

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

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING

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

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

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

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

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

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

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(17) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.02 PER L.F. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

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

RESURFACING

(9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

SIGNING

(4) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL OR ERECTION. IF THE SUPPORT LENGTHS DIFFER BY MORE THAN 2 FEET FROM THOSE SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802.

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

(6) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE APPROPRIATE REGIONAL OPERATIONS OR CONSTRUCTION OFFICE PRIOR TO ORDERING MATERIAL OR INSTALLING THE SUPPORTS. PAYMENT FOR LOCATION AND STAKING SHALL BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS OF CONSTRUCTION. ANY RELOCATION REQUIRED DUE TO INCORRECT INSTALLATION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

(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.

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

(10) 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.

(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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	HSIP-22(91)	2C
PS&E	2026	HSIP-22(91)	2C

SEALED BY

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09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET 1 OF 2

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GENERAL NOTES CONT.

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

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	HSIP-22(91)	2C1
PS&E	2026	HSIP-22(91)	2C1

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET 2 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2026	HSIP-22(91)	2D
PS&E	2026	HSIP-22(91)	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.

COLD PLANING

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

(1) THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 96 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED, EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.

(3) IF SUBSURFACE PAVEMENT FAILURE IS EXPOSED AFTER MILLING, REMOVE AREA OF FAILURE TO SOUND PAVEMENT AND REPLACE WITH "BM2" MIX PRIOR TO PLACING PROPOSED OVERLAY.

(4) AT THE COMPLETION OF COLD PLANING OPERATION, ANY DEPRESSIONS WILL BE CLEANED AND BROUGHT TO PROPER GRADE WITH "BM2" MIX MATERIAL. THE COST OF THE CLEAN UP WILL BE INCLUDED IN THE UNIT PRICE FOR "BM2" MIX MATERIAL.

MISCELLANEOUS

(1) ITEM 303-02 TO BE PLACED BEFORE PLACING SURFACING MATERIAL.

(2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY SIGNS AND MAILBOXES DURING THE OPERATION. ANY SIGNS OR MAILBOXES DAMAGED AS A RESULT OF THE OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2E
P.I.H.	2026	HSIP-22(91)	2E
PS&E	2026	HSIP-22(91)	2E

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

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

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

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

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

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

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

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE PLANS, SPECIFICATION, AND ESTIMATE (PS&E) 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 PLANS, SPECIFICATION, AND ESTIMATE (PS&E) 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 PLANS, SPECIFICATION, AND ESTIMATE (PS&E) PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

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

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

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

SUPPORT ACTIVITIES

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

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.

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ENVIRONMENTAL NOTES

SHEET 1 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2E1
P.I.H.	2026	HSIP-22(91)	2E1
PS&E	2026	HSIP-22(91)	2E1

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

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

ECOLOGY

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

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

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

SCOPE OF WORK

(6) MISCELLANEOUS SAFETY AND CONSTRUCTION IMPROVEMENTS ALONG S.R. 22 IN CARROLL COUNTY. INCLUDING REPLACEMENT OF EXISTING SIGNAGE, UPDATES TO THE EXISTING LENS WITHIN OVERHEAD FLASHING BEACONS, INSTALLLING WHITE CONTINUOUS DELINEATION ENHANCEMENTS ALONG EXISTING GUARDRAIL, UPDATE OF GUARDRAIL TERMINALS, CONSTRUCTION OF A RESTRICTED CROSSING INTERSECTION WITH ACCOMPANYING J-TURN INTERSECTIONS/BULBOUTS AND THE MODIFICATION/CONSTRUCTION OF DRAINAGE STRUCTURES AS REQUIRED,

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ENVIRONMENTAL NOTES

SHEET 2 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2F
P.I.H.	2026	HSIP-22(91)	2F
PS&E	2026	HSIP-22(91)	2F

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY) EXC.	UNADJUSTED VOLUMES (CY) EMB.	ADJUSTED VOLUMES (CY) EXC.
NORTHBOUND BULBOUT	202	239	172
NORTHBOUND INTERSECTION	466	224	396
NORTHBOUND J-TURN	227	268	193
SOUTHBOUND BULBOUT	169	268	144
SOUTHBOUND INTERSECTION	455	339	387
SOUTHBOUND J-TURN	259	321	220
S.R. 124 / DR. SMITH LANE	553	13	470
DRIVEWAYS		166	
TEMPORARY CONSTRUCTION EXITS	29		24
TOPSOIL (EXC.)	678		
TOPSOIL (EMB.)	775		

BALANCE SUMMARY

SHRINK = 15 % SWELL = 15 %

EXC. VS. EMB.
2006 -1838

AVAILABLE = 168

WASTE = 194

ROCK (C.Y.) EXC.	ROCK (C.Y.) EMB.	TOTALS (C.Y.) EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COM.)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	3813	1838	3813	2360	2006

TOPSOIL

IF EXISTING TOPSOIL IS SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.	ADJUSTED EXC. (UNCL) TOTAL 203-01
27837	678	775	1453	516	516	0	937	4385

IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.	ADJUSTED EXC. (UNCL) TOTAL 203-01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RIGHT OF WAY MARKERS

SHEET NO.	Item #: 708-02.01 QUANTITIES "A"	"B"	"C"	TOTALS
4		1	2	3
5				
TOTALS		1	2	3

REMOVAL OF STRUCTURES

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
5	117+65.62	S.R. 22	MEDIAN DRAIN OUTLET	LOCATION INCLUDES APPROX. 20 FT OF PIPE *
5	122+14.00	S.R. 22	MEDIAN CATCH BASIN	EXISTING PIPE AND ENDWALL TO REMAIN

* REMOVAL OF PIPE TO BE INCLUDED WITHIN ITEM NO. 202-02.04

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	LOG MILE	GUARDRAIL ELEMENTS W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	GUARDRAIL ELEMENTS MICHIGAN END SHOE 706-10.80 (EACH)	GUARDRAIL ELEMENTS ROUND END ELEMENT 706-10.26 (EACH)	END TERMINALS TYPE 13 MASH TL3 (9.375') 705-06.10 (EACH)	END TERMINALS TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	END TERMINALS TYPE 21 MASH TL2 (21.875') 705-06.30 (EACH)	REMARKS
R5	NORTHBOUND S.R. 22		X	17.37	14	1		1			INCLUDES DELINEATION ENHANCEMENT
R11	NORTHBOUND S.R. 22		X	20.85	14	1		1			INCLUDES DELINEATION ENHANCEMENT
R11	NORTHBOUND S.R. 22		X	20.85	14	1		1			INCLUDES DELINEATION ENHANCEMENT
TOTALS					42	3		3			

PAVEMENT QUANTITIES

LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON) MINERAL AGG. D 303-01	MINERAL AGG. C or D 303-02	BITUMINOUS PLANT MIX BASE (HOT MIX) A 307-01.01	A 307-02.01	A-S 307-01.21	B-M2 307-01.08	B-M2 307-02.08	PRIME COAT 402-01	PRIME COAT 402-02	TACK COAT 403-01	ASPHALTIC CONCRETE SURFACE (HOT MIX) D 411-01.10	D 411-02.10	E 411-01.07
S.R. 22	3783			1732	200		595			5		365	
S.R. 124 / DR SMITH LANE	769			298			146			1		88	
DRIVEWAYS	136						36			0.2		21	
TOTALS	4688			2030	200		777			6		474	

SPECIAL DITCHES

LOCATION	STATION FROM	STATION TO	DETAIL NO.	CONFIGURATION FORE (H/V)	CONFIGURATION BOTTOM WIDTH (FT.)	CONFIGURATION BACK (H/V)	CLASS A CONC. 703-01 (C.Y.)	SEEDING WITH MULCH 801-01 (UNITS)	SEEDING W/O MULCH 801-02 (UNITS)	SODDING NEW SOD 803-01 (S.Y.)
S.R. 22 - RT	105+44.21	107+43.92		4:1	5	3:1	21			
S.R. 22 - MEDIAN	106+25.50	110+00.00		3:1 TO 4:1	VAR.	3:1 TO 5.5:1	29			169
S.R. 22 - MEDIAN	112+60.72	115+97.56		4:1	VAR.	4:1 TO 5:1				540
S.R. 22 - MEDIAN	118+27.45	124+13.46		4:1	VAR.	4:1	50			420
S.R. 22 - LT	123+12.92	124+90.43		4:1	5	3:1				255
TOTALS							100			1384

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	2F1
P.I.H.	2026	HSIP-22(91)	2F1
PS&E	2026	HSIP-22(91)	2F1

CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE ELEV.	INVERT ELEV.	DEPTH (FT.)	INSIDE DIM.	STANDARD DRAWING NO.	PAY ITEMS								
										TYPE 12 611-12.01 0'-4'	TYPE 12 611-12.02 4'-8'	TYPE 12 611-12.03 8'-12'	TYPE 14 611-14.01 0'-4'	TYPE 14 611-14.02 4'-8'	TYPE 14 611-14.03 8'-12'	TYPE 38 611-38.01 0'-4'	TYPE 38 611-38.02 4'-8'	TYPE 38 611-38.03 8'-12'
4B	S.R. 22 - MEDIAN	106+25.50	12.48	CB-1	430.75	427.60		32"X32"	D-CB-38S							1		
5B	S.R. 22 - MEDIAN	118+77.43	12.23	CB-2	447.24	442.24		32"X32"	D-CB-38S								1	
5B	S.R. 22 - MEDIAN	122+13.71	-5.83	CB-3	449.10	446.37		32"X32"	D-CB-38S							1		
5B	S.R. 22 - MEDIAN	125+26.07	0.14	CB-4	452.34	448.47		32"X32"	D-CB-38S							1		
TOTALS																3	1	

CROSS DRAIN TABULATION

STATION	SKEW	RCP CLASS III OR CMP 12 GA OR PVC OR SRTRP OR HDPE OR PP FILL HEIGHT ≤ 16 FT. (L.F.)						RCP CLASS III OR CMP 12 GA OR PVC FILL HEIGHT > 16 FT. AND ≤ 24 FT (L.F.)						END TREATMENT				REMARKS
														INLET		OUTLET		
		18"	24"	30"	36"	42"	48"	18"	24"	30"	36"	42"	48"	TYPE	DRAWING NO.	TYPE	DRAWING NO.	
105+45.39		135												CB	D-CB-38S	CB	D-CB-38S	PIPE TO RUN BELOW PROPOSED J-TURN
118+77.44		72												CB	D-CB-38S	UEW	D-PE-18A	
122+13.81		5												CB	D-CB-38S	EXIST. PIPE		PIPE TO CONNECT TO EXISTING PIPE
125+26.07		91												CB	D-CB-38S	UEW	D-PE-18A	
TOTALS		303																

CROSS DRAIN \ MEDIAN DRAIN ENDWALLS

LOCATION	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS "A-1" 709-05.06 (TON)	PROTECTED ENDWALLS		SAFETY ENDWALLS (ITEM NO. 611-07.54 THRU 611-07.71 SERIES)												
								CLASS "A" CONCRETE 611-07.01 (C.Y.)	STEEL BAR REINFORCING 611-07.02 (LB.)	18 IN. 3:1 07.54 (EACH)	18 IN. 4:1 07.55 (EACH)	18 IN. 6:1 07.56 (EACH)	24 IN. 3:1 07.57 (EACH)	24 IN. 4:1 07.58 (EACH)	24 IN. 6:1 07.59 (EACH)	30 IN. 3:1 07.60 (EACH)	30 IN. 4:1 07.61 (EACH)	30 IN. 6:1 07.62 (EACH)	36 IN. 3:1 07.63 (EACH)	36 IN. 4:1 07.64 (EACH)	36 IN. 6:1 07.65 (EACH)
S.R. 22	118+77.44	85.34		EW-7	UEW	D-PE-18A						1										
S.R. 22	125+26.07	92.36		EW-8	UEW	D-PE-18A						1										
TOTALS												2										

SIDE DRAIN TABULATION

LOCATION	MAINLINE STATION	MAINLINE OFFSET (FT.)	SURFACE WIDTH FT.	SKEW	RCP CLASS III OR CMP 16 GA OR PVC OR SRTRP OR HDPE OR PP (L.F.) FILL HEIGHT ≤ 10 FT.						RCP CLASS III HORIZONTAL OVAL PIPE (L.F.) FILL HEIGHT ≤ 10 FT			END TREATMENT				REMARKS
														INLET		OUTLET		
					18"	24"	30"	36"	42"	48"	23" X 14"	30" X 19"	38" X 24"	TYPE	DRAWING NO.	TYPE	DRAWING NO.	
DRIVEWAY 1	102+64.95	83.04			34									SEW	D-PE-18A	SEW	D-PE-18A	PIPE NO. 1
	102+64.97	86.87			34									SEW	D-PE-18A	SEW	D-PE-18A	PIPE NO. 2
DRIVEWAY 2	103+84.85	80.66			33									SEW	D-PE-18A	SEW	D-PE-18A	PIPE NO. 1
	103+84.92	84.50			33									SEW	D-PE-18A	SEW	D-PE-18A	PIPE NO. 2
DRIVEWAY 3	108+09.81	76.56			28									SEW	D-PE-18A	SEW	D-PE-18A	
					162													

SIDE DRAIN ENDWALLS

LOCATION	MAINLINE STATION	MAINLINE 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)
DRIVEWAY 1 - EW1	102+47.41	83.05	SEW	D-PE-18A						1							
	102+47.40	86.89	SEW	D-PE-18A						1							
DRIVEWAY 1 - EW2	102+82.54	82.89	SEW	D-PE-18A						1							
	102+82.59	86.72	SEW	D-PE-18A						1							
DRIVEWAY 2 - EW3	103+67.46	80.88	SEW	D-PE-18A						1							
	103+67.49	84.72	SEW	D-PE-18A						1							
DRIVEWAY 2 - EW4	104+02.23	80.29	SEW	D-PE-18A						1							
	104+02.34	84.13	SEW	D-PE-18A						1							
DRIVEWAY 3 - EW5	107+95.17	76.37	SEW	D-PE-18A						1							
DRIVEWAY 3 - EW6	108+24.45	76.65	SEW	D-PE-18A						1							
TOTALS										10							

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	3
P.I.H.	2026	HSIP-22(91)	3
PS&E	2026	HSIP-22(91)	3

RIGHT-OF-WAY

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

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

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

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

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

(9) 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

CABLE:
CHARTER COMMUNICATIONS
24 CIRCLE DRIVE
MCKENZIE, TN 38201
CONTACT: KEITH CHESSER
OFFICE PHONE: 731 352 1146
Email: KEITH.CHESSER@CHARTER.COM

GAS:
WEST TENNESSEE PUBLIC UTILITY DISTRICT
14055 PARIS STREET
HUNTINGDON, TN 38344
CONTACT: BRENT DILLIHUNTY
OFFICE PHONE: 731 986 8289
Email: BRENT@WTPUD.COM

WATER:
CITY OF MCKENZIE
2470 CEDAR STREET / PO BOX 160
MCKENZIE, TN 38201
CONTACT: EARNEST UMSTEAD
OFFICE PHONE: 731 415 4860
Email: EARNEST.UMSTEAD@CITYOFMCKENZIE.COM

ELECTRIC:
CARROLL COUNTY ELECTRIC DEPT.
103 WEST PARIS STREET
HUNTINGDON, TN 38344
CONTACT: JAMES TAYLOR
OFFICE PHONE: 731 986 8284
Email: JTAYLOR@CCELECTRIC.ORG

SEWER:
CITY OF MCKENZIE
2470 CEDAR STREET / PO BOX 160
MCKENZIE, TN 38201
CONTACT: EARNEST UMSTEAD
OFFICE PHONE: 731 415 4860
Email: EARNEST.UMSTEAD@CITYOFMCKENZIE.COM

SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	3A
FUNCT.	2024	HSIP-22(91)	3A
P.I.H.	2026	HSIP-22(91)	3A
PS&E	2026	HSIP-22(91)	3A

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (S.F.)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT BK.	DEED DOCUMENT PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST.
~~1~~	~~Marvin J Kalinowski etux Shannon D~~	~~017~~	~~73.0~~	~~311~~	~~970~~											
~~2~~	~~Tommy Hicks etux Gail~~	~~017~~	~~74.0~~	~~374~~	~~38~~		~~0.670~~	~~0.670~~					~~0.670~~			
3	White Family Trust/Carroll Bank & Trust Co.	017	75.0	359	773	0.509	34.205	34.714		1515 S.F.	1515 S.F.	0.509	34.170			165
~~4~~	~~Charles M Hudgins~~	~~017~~	~~068.02~~	~~379~~	~~265~~	~~1.761~~		~~1.761~~				~~1.761~~				
~~5~~	~~Francisco Padilla etux Abigail~~	~~017~~	~~068.00~~	~~381~~	~~90~~	~~7.573~~		~~7.573~~				~~7.573~~				
~~6~~	~~Judy Butler~~	~~017~~	~~068.04~~	~~260~~	~~070~~	~~1.279~~		~~1.279~~				~~1.279~~				
ACQUISITION TOTALS (ACRES)																165

DISTURBED AREA

IN BETWEEN SLOPE LINES	2.887	(AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.836	(AC)
TOTAL DISTURBED AREA	3.723	(AC)
TOTAL PROJECT AREA	8.944	(AC)

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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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AREA PATTERNS
CONSTRUCTION EASEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	3B
FUNCT.	2024	HSIP-22(91)	3B
P.I.H.	2026	HSIP-22(91)	3B
PS&E	2026	HSIP-22(91)	3B

N

CALLENRD STA. 51+15.00
N 654017.8775
E 1233004.3751

SR22 STA. 104+54.24 = CALLENRD STA. 50+00.00
N 654061.0644
E 1233110.9579

SR22 STA. 100+00.00
N 653659.7968
E 1233322.6864

09006-2219-94
BEGIN PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 105+35.00
N 654136.5309 E 1233082.2212

105

09006-2219-94
END PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 108+36.01
N 654426.8203 E 1233003.7883

110

SR22 STA. 105+74.85 = BL_SB_JTURN STA. 107+76.68
N 654174.2001
E 1233069.2234

TR3

PRESENT R.O.W.

CONNIE ALLEN RD.

PRESENT R.O.W.

PRESENT R.O.W.

S.R.22

S.R.22

N 30° 59' 55" W

S.R.22

TO HUNTINGDON

24"OAK

PRESENT R.O.W.

TEMP. CONST. EASEMENT

PROP. R.O.W.

S.R.22

SEE SHEET NO. 3B1

STA. 113+00.00

MATCH LINE

BL_SB_BULB STA. 108+37.43
N 654446.8714
E 1233049.6025

BL_SB_JTURN STA. 103+25.00
N 654607.0500
E 1232956.5903

BL_NB_INT STA. 112+50.00
N 654839.1586
E 1232992.9601

BL_SB_BULB STA. 104+50.00
N 654075.6121
E 1233157.8655

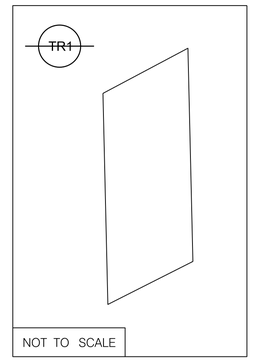
BL_SB_JTURN STA. 108+35.90 = BL_SB_BULB STA. 105+42.90
N 654162.5280
E 1233125.0804

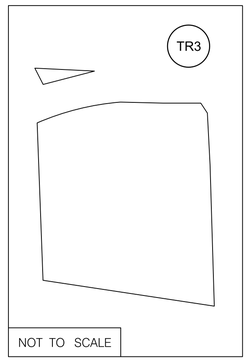
TR3

09006-3219-94
BEGIN PROJ. NO. HSIP-22(91) (CONST.)
STA. 102+35.00
N 653862.9874 E 1233204.6680

TR1

TR2





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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	3B1
FUNCT.	2024	HSIP-22(91)	3B1
P.I.H.	2026	HSIP-22(91)	3B1
PS&E	2026	HSIP-22(91)	3B1

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

115 | 120 | 125

PRESENT R.O.W.

MCKENZIE CITY LIMITS

TR4 | TR5 | TR6

FENCE | BARBWIRE | WOOD | WTL - 1

SR 124

MATCH LINE STA. 113+00.00

SEE SHEET NO. 3B

S.R.22

N 0° 47' 33" W

TO HWY 79 MCKENZIE

DR. SMITH LN.

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

TR3

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

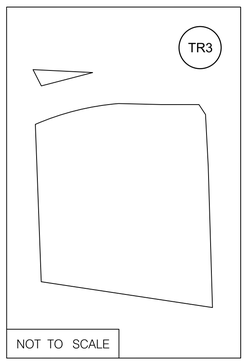
SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

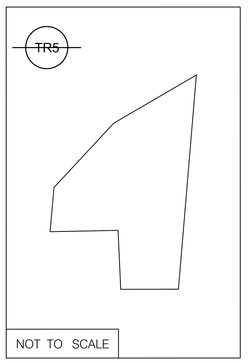
SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

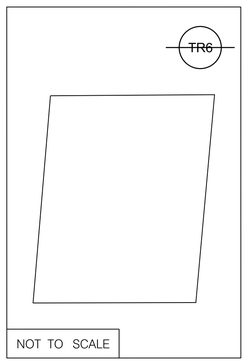
BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158







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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

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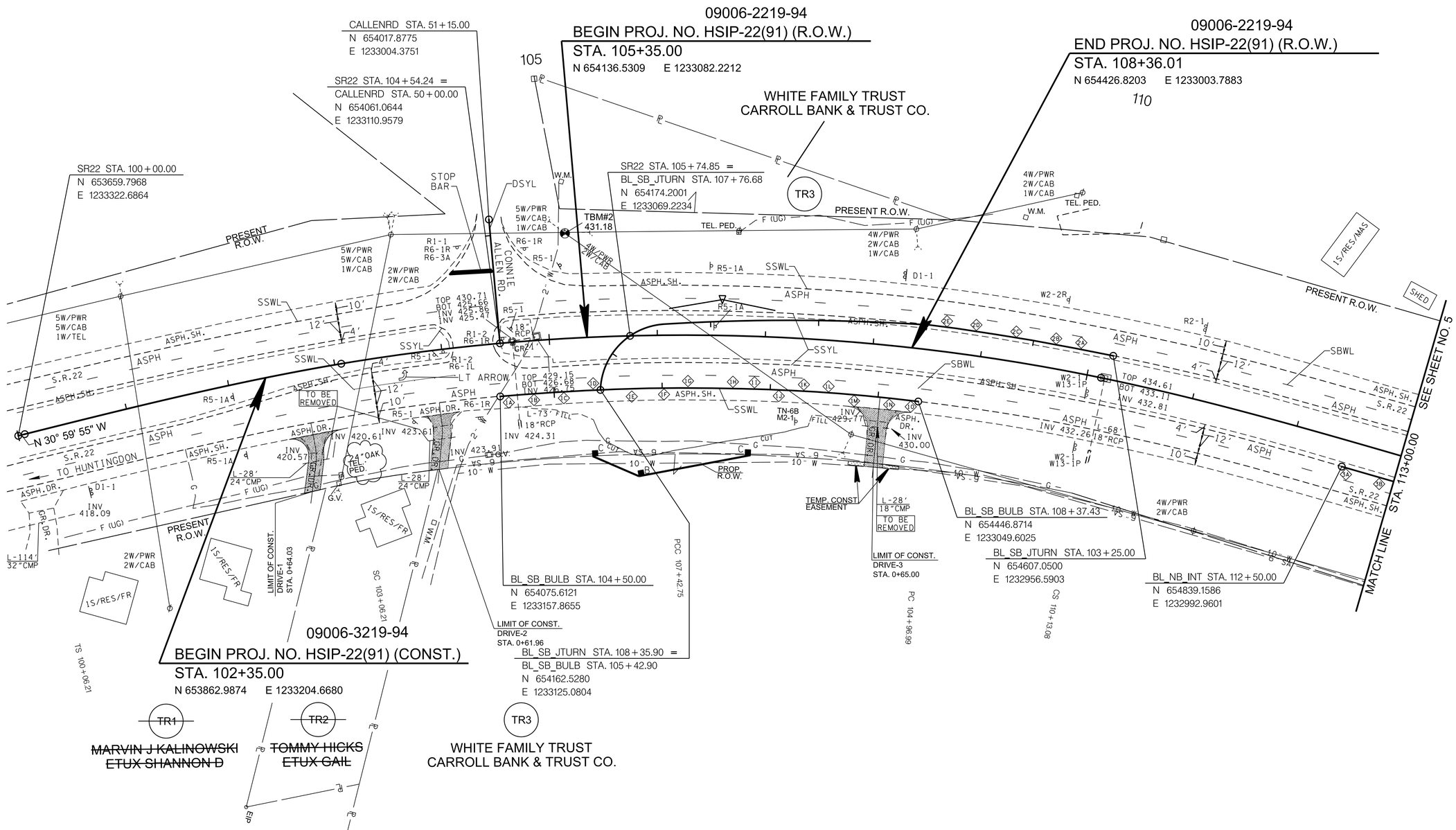
CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

AREA PATTERNS
CONSTRUCTION EASEMENT
PROP. DRIVEWAY

DSYL	DOUBLE SOLID YELLOW LINE	SSWL	SINGLE SOLID WHITE LINE
SBWL	SINGLE BROKEN WHITE LINE	SSYL	SINGLE SOLID YELLOW LINE
SDWL	SINGLE DOTTED WHITE LINE		

THE CONTRACTOR SHALL CONDUCT THEIR WORK DURING THE CONSTRUCTION OF THE SOUTHBOUND BULBOUT AS TO PROTECT THE EXISTING GAS FACILITIES. CARE SHALL BE TAKEN TO MINIMIZE THE POTENTIAL RISK OF HEAVY EQUIPMENT DAMAGING THE LINE. A REPRESENTATIVE OF THE WEST TENNESSEE PUBLIC UTILITY DISTRICT (WTPUD) SHALL BE AUTHORIZED TO SUPERVISE WORK AT THIS LOCATION IF DEEMED NECESSARY BY THE WTPUD.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	4
FUNCT.	2024	HSIP-22(91)	4
P.I.H.	2026	HSIP-22(91)	4
PS&E	2026	HSIP-22(91)	4



BASELINE - SB_BULB		
1A	N 21° 36' 35" W	22.06
1B	N 20° 56' 46" W	27.50
1C	N 20° 17' 51" W	29.03
1D	N 19° 25' 32" W	28.46
1E	N 18° 39' 53" W	30.72
1F	N 17° 27' 29" W	28.96
1G	N 16° 36' 42" W	29.84
1H	N 15° 52' 29" W	28.80
1I	N 15° 18' 20" W	22.68
1J	N 14° 24' 10" W	21.88
1K	N 13° 51' 58" W	22.21
1L	N 12° 49' 43" W	22.30
1M	N 11° 59' 58" W	24.56
1N	N 11° 10' 42" W	23.13
1O	N 10° 22' 01" W	25.32

BASELINE - SB_JTURN		
2A	S 5° 47' 35" E	36.13'
2B	S 6° 26' 25" E	40.80'
2C	S 7° 44' 59" E	33.90'
2D	S 8° 17' 25" E	36.50'
2E	S 9° 43' 44" E	24.65'

BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

SR22	
CURVE DC100	
PI	106+72.14
N	654,235.9381
E	1,232,976.5256
Δs	30° 12' 22" (RT)
θs	4° 30' 00"
Δc	21° 12' 22" (RT)
Dc	3° 00' 00"
Rc	1,909.86
Lc	706.87
Ts	665.93
Ls	300.00
SE	MATCH EXISTING
DESIGN SPEED	00 MPH

CURVE - SB_JTURN			
CURVE DC1000		CURVE DC1001	
PI	106+19.87	PI	107+89.32
N	654,316.7002	N	654,147.5383
E	1,233,006.6890	E	1,233,069.6262
Δ	7° 18' 53" (LT)	Δ	84° 43' 05" (LT)
D	2° 58' 35"	D	90° 56' 44"
R	1,925.04	R	63.00
L	245.76	L	93.15
T	123.05	T	57.44
SE	0.000 FT/FT	SE	0.000 FT/FT
DESIGN SPEED	00 MPH	DESIGN SPEED	00 MPH

CURVE - NB_INT	
CURVE DC1100	
PI	117+30.17
N	655,317.8896
E	1,232,960.5386
Δ	58° 40' 44" (LT)
D	59° 40' 59"
R	96.00
L	98.32
T	53.96
SE	0.000 FT/FT
DESIGN SPEED	00 MPH

SEALED BY

ELISABETH C. DAVID
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AGRICULTURE
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NO. 124199
STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

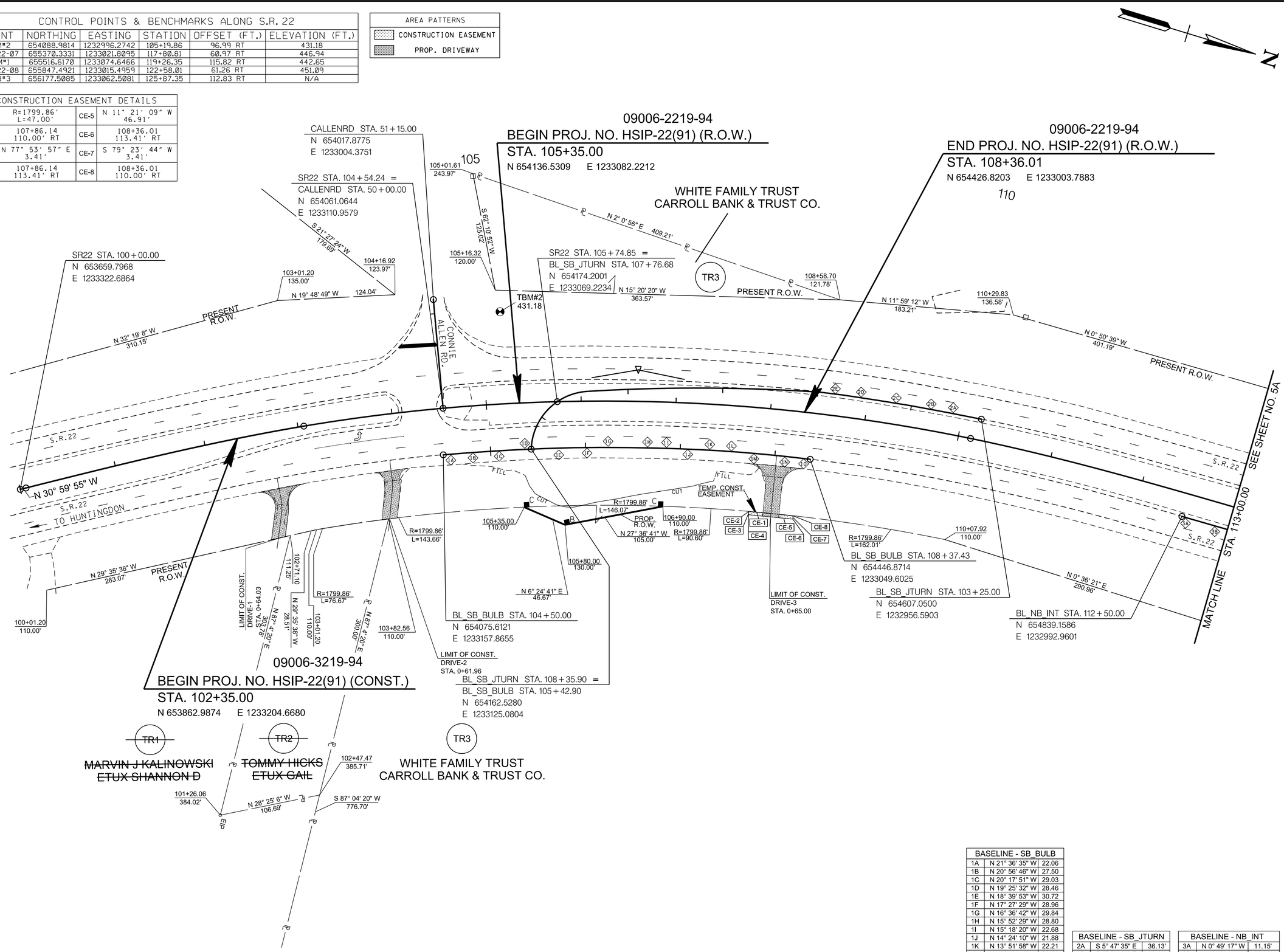
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\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET 4 - PRESENT LAYOUT.sht

CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

AREA PATTERNS
CONSTRUCTION EASEMENT
PROP. DRIVEWAY

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	4A
FUNCT.	2024	HSIP-22(91)	4A
P.I.H.	2026	HSIP-22(91)	4A
PS&E	2026	HSIP-22(91)	4A

CONSTRUCTION EASEMENT DETAILS			
CE-1	R=1799.86' L=47.00'	CE-5	N 11° 21' 09" W 46.91'
CE-2	107+86.14 110.00' RT	CE-6	108+36.01 113.41' RT
CE-3	N 77° 53' 57" E 3.41'	CE-7	S 79° 23' 44" W 3.41'
CE-4	107+86.14 113.41' RT	CE-8	108+36.01 110.00' RT



BASELINE - SB_BULB		
1A	N 21° 36' 35" W	22.06
1B	N 20° 56' 46" W	27.50
1C	N 20° 17' 51" W	29.03
1D	N 19° 25' 32" W	28.46
1E	N 18° 39' 53" W	30.72
1F	N 17° 27' 29" W	28.96
1G	N 16° 36' 42" W	29.84
1H	N 15° 52' 29" W	28.80
1I	N 15° 18' 20" W	22.68
1J	N 14° 24' 10" W	21.88
1K	N 13° 51' 58" W	22.21
1L	N 12° 49' 43" W	22.30
1M	N 11° 59' 58" W	24.56
1N	N 11° 10' 42" W	23.13
1O	N 10° 22' 01" W	25.32

BASELINE - SB_JTURN		
2A	S 5° 47' 35" E	36.13'
2B	S 6° 26' 25" E	40.80'
2C	S 7° 44' 59" E	33.90'
2D	S 8° 17' 25" E	36.50'
2E	S 9° 43' 44" E	24.65'

BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

SEALED BY

ELIZABETH G. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

28-AUG-2026 11:01
\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET 4A - ROW DETAILS.sht

CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

SEE SHEETS 22, 24 & 25 FOR PROPOSED SIGNING AND PAVEMENT MARKING DETAILS

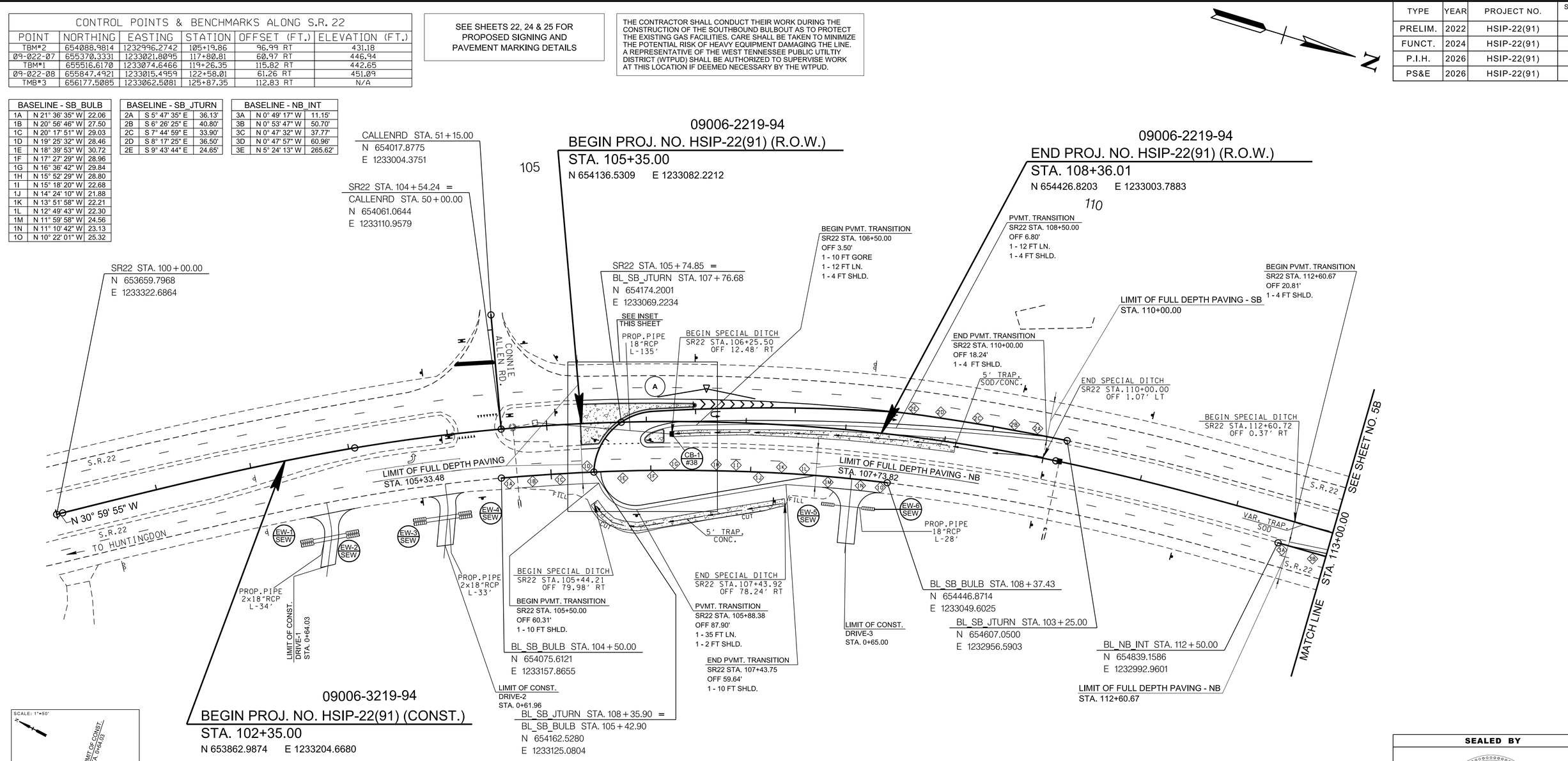
THE CONTRACTOR SHALL CONDUCT THEIR WORK DURING THE CONSTRUCTION OF THE SOUTHBOUND BULBOUT AS TO PROTECT THE EXISTING GAS FACILITIES. CARE SHALL BE TAKEN TO MINIMIZE THE POTENTIAL RISK OF HEAVY EQUIPMENT DAMAGING THE LINE. A REPRESENTATIVE OF THE WEST TENNESSEE PUBLIC UTILITY DISTRICT (WTPUD) SHALL BE AUTHORIZED TO SUPERVISE WORK AT THIS LOCATION IF DEEMED NECESSARY BY THE WTPUD.

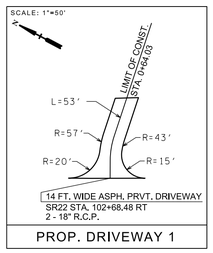
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	4B
FUNCT.	2024	HSIP-22(91)	4B
P.I.H.	2026	HSIP-22(91)	4B
PS&E	2026	HSIP-22(91)	4B

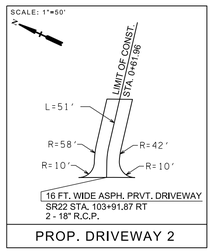
BASELINE - SB_BULB		
1A	N 21° 36' 35" W	22.06
1B	N 20° 56' 46" W	27.50
1C	N 20° 17' 51" W	29.03
1D	N 19° 25' 32" W	28.46
1E	N 18° 39' 53" W	30.72
1F	N 17° 27' 29" W	28.96
1G	N 16° 36' 42" W	29.84
1H	N 15° 52' 29" W	28.80
1I	N 15° 18' 20" W	22.68
1J	N 14° 24' 10" W	21.88
1K	N 13° 51' 58" W	22.21
1L	N 12° 49' 43" W	22.30
1M	N 11° 59' 58" W	24.56
1N	N 11° 10' 42" W	23.13
1O	N 10° 22' 01" W	25.32

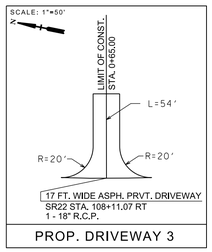
BASELINE - SB_JTURN		
2A	S 5° 47' 35" E	36.13'
2B	S 6° 26' 25" E	40.80'
2C	S 7° 44' 59" E	33.90'
2D	S 8° 17' 25" E	36.50'
2E	S 9° 43' 44" E	24.65'

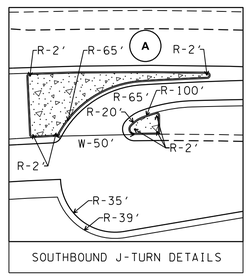
BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

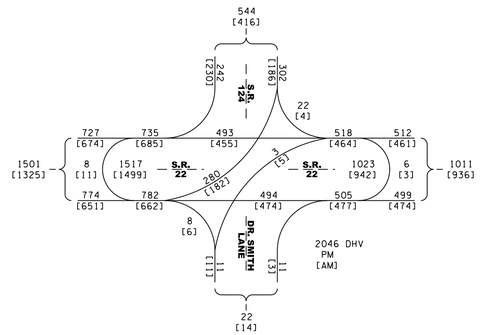












CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

28-AUG-2026 11:01
\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET 4B - PROPOSED LAYOUT.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	4C
FUNCT.	2024	HSIP-22(91)	4C
P.I.H.	2026	HSIP-22(91)	4C
PS&E	2026	HSIP-22(91)	4C

CONTROL POINTS & BENCHMARKS ALONG S.R. 22

POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM*2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
Ø9-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM*1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
Ø9-022-08	655847.4921	1233015.4959	122+56.01	61.26 RT	451.09
TMB*3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

OH WIRE
STA. 101+14.18
LOW WIRE EL.445.41'
TEMP. 75 DEG.
4W/PWR/CAB

OH WIRE
STA. 103+28.89
LOW WIRE EL.446.03'
TEMP. 75 DEG.
4W/PWR/CAB

OH WIRE
STA. 106+48.71
LOW WIRE EL.455.14'
TEMP. 75 DEG.
6W/PWR/CAB

EDGE ASPHALT
STA. 104+07.45

EDGE ASPHALT
STA. 104+54.24

SR22 104+54.24 =
CALLENRD 50+00.00
ELEV. 430.57

LIMIT OF FULL DEPTH PAVING - NB
SR22 STA. 107+73.82

LIMIT OF FULL DEPTH PAVING - NB/SB
SR22 STA. 105+33.48

GRAPHIC GRADE

LIMIT OF CONST.
STA. 105+33.48

LIMIT OF CONST.
STA. 105+51.91

PROP. CB: CB-1
STA. 106+25.50
12.48' (RT)
TOP 430.75
INVERT 427.60

LIMIT OF CONST.
STA. 107+73.82

END SPECIAL DITCH (MED)
SR22 STA. 110+00.00
EL. 434.71

END BL SB BULB
SR22 STA. 108+47.58

LIMIT OF CONST.
STA. 110+00.00

LIMIT OF FULL DEPTH PAVING - SB
SR22 STA. 110+00.00

LIMIT OF FULL DEPTH PAVING - NB
SR22 STA. 112+60.67

TRAPEZOIDAL SOD
1.74%

GRAPHIC GRADE

END BL SB JTURN
SR22 STA. 110+20.00

TRAPEZOIDAL SOD/CONC.
1.06%

INSIDE EDGE OF
S.B. ROADWAY

INSIDE EDGE OF
N.B. ROADWAY

CROSSOVER

GRASS MEDIAN

BEGIN BL SB BULB
SR22 STA. 104+50.00

F (UG)

G

W

SA

18"RCP

TO REMAIN
MHSJC176
STA. 104+65.78
0.62' (LT)
TOP 430.71
INVERT 425.86
INVERT 425.47

EXIST. PIPE OUTLET
STA. 104+66.57
72.92' (RT)
INVERT 424.31

WATER LINE CROSSES
STA. 104+81.69

TO REMAIN
DISJC162
STA. 104+88.55
3.47' (LT)
TOP 429.15
INVERT 426.87
INVERT 426.75

PROP. 18"
RCP

TRAPEZOIDAL CONC.
1.65%

END SPECIAL DITCH (RT)
SR22 STA. 107+43.92
EL. 429.05

SR22 105+74.85 =
BL_SB_JTURN 107+76.68
ELEV. 429.58

BEGIN SPECIAL DITCH (MED)
SR22 STA. 106+25.50
EL. 430.75

BEGIN BL_SB_JTURN
SR22 STA. 105+45.35

BEGIN SPECIAL DITCH (RT)
SR22 STA. 105+44.21
EL. 425.75

TO REMAIN
DI-SCJ753
STA. 110+16.83
0.15' (LT)
TOP 434.61
INVERT 433.11

BEGIN SPECIAL DITCH (MED)
SR22 STA. 112+60.72
EL. 438.84

EXIST. PIPE OUTLET
STA. 110+15.73
68.81' (RT)
OUTLET 432.26

09006-3219-94
BEGIN PROJ. NO. HSIP-22(91) (CONST.)
STA. 102+35.00
N 653862.9874 E 1233204.6680

09006-2219-94
BEGIN PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 105+35.00
N 654136.5309 E 1233082.2212

09006-2219-94
END PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 108+36.01
N 654426.8203 E 1233003.7883

TBM*1
STA. 105+19.86, 96.99'(LT)
N 654088.9814
E 1232996.2742
ELEV 431.18
BENCHTIE SET IN PWR POLE

NOTE
6"FMS LOCATED ON TOP OF GROUND
BILLY WOOD WITH McKENZIE WATER
DEPARTMENT SENT A UTILITY MAP
WITH APPROXIMATE DEPTH OF LINE.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
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EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

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ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.100+00.00 TO STA.113+00.00

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

28-AUG-2026 11:02
\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET 4C - PROPOSED PROFILE.sht

CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

AREA PATTERNS
CONSTRUCTION EASEMENT
PROP. DRIVEWAY

DSYL	DOUBLE SOLID YELLOW LINE	SSWL	SINGLE SOLID WHITE LINE
SBWL	SINGLE BROKEN WHITE LINE	SSYL	SINGLE SOLID YELLOW LINE
SDWL	SINGLE DOTTED WHITE LINE		

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	5
P.I.H.	2026	HSIP-22(91)	5
PS&E	2026	HSIP-22(91)	5

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 125+77.74
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

TR4
CHARLES M HUDGINS

TR5
FRANCISCO PADILLA etux ABIGAIL

TR6
JUDY BUTLER

MOBILE HOME
MOBILE HOME
SHED
PRESENT R.O.W.
FENCE
PRESENT R.O.W.
PC 116+76.21
LIMIT OF CONST./RESURF. STA. 28+60.00
APPROX. LOCATION PIPE BURIED
ASPH. SH.
ASPH. SH.
MCKENZIE CITY LIMITS
PRESENT R.O.W.
WELCOME TO MCKENZIE
PERMANENTLY IMPACTED DUE TO CONSTRUCTION
METAL BLDG
PC 124+38.32
PLAZA 22
PRESENT R.O.W.
BARBWIRE
BARBWIRE
WOOD
TEL PED.
2W/P 1W/TEL
2W/P 1W/TEL
1W/P
L-32' 18"RCP
ASPH. DR. INV. 442.68
R1-1 R6-1R R6-3A W4-4P
SR22 N/S
JIM ALEXANDER HWY.
TEL PED.
DSYL
F (UG)
APPROX. LOCATION OF EXIST. PIPE
WTL-1
ASPH. DR.
FILL
CUT
FILL
W2-1 W13-1P
R6-1
ASPH. DR.
SEE SHEET NO. 4
STA. 113+00.00
MATCH LINE
ASPH.SH.
S.R.22
SR22-S
SSWL
10'
12'
4'
ASPH
ASPH.SH.
R5-1A
SBWL
10' ASPH.SH.
SSWL
10' ASPH SH
S.R.22
ASPH
SSWL
LT ARROW
SSWL
R5-1A
ASPH. SH.
R5-1A
ASPH. SH.
R5-1A
CONC PAD
TOP 447.96
BOT 446.37
INV 446.09
N 0° 47' 33" W
W2-1 W13-1P
TO HWY 79 MCKENZIE
S.R.22
ASPH
S.R.22
ASPH.SH.
R5-1A
MCKENZIE BUSS. DIST.
R6-1L
SR124
R1-2 R6-1R
STOP BAR
R5-1
LT ARROW
SSWL
10'
TOP 444.44
BOT 442.83
INV 442.60
L-75' 18"RCP
09-022-07
CB TO BE PLUGGED & ABANDONED INV. 440.78
TBM#1 442.65
JAKE BRAKES PROHIBITED
TO BE REMOVED & REPLACED
09-022-08
L-89' 18"RCP
INV 443.47
PIPE & ENDWALL TO REMAIN
ASPH SH
SBWL
SSWL
R6-1
2W/P 1W/TEL
TBM#3
4W/P 2W/TEL
PRESENT R.O.W.
4W/PWR 2W/CAB
LAKESIDE SIGN
DSYL
R1-1
1W/P
10" W
6" SA
6" FMS
10" W
10" W
10" W
6" FMS
6" FMS
6" FMS
10" W
10" W
10" W
10" W
4W/P 2W/TEL
PRESENT R.O.W.
BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149
REMOVE ENDWALL AND 20 FT OF EXISTING PIPE. REMAINING IS TO BE PLUGGED AND ABANDONED.
BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267
09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615
SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158
ST 113+13.08
TR3
WHITE FAMILY TRUST
CARROLL BANK & TRUST CO.
SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677
SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737
LIMIT OF CONST./RESURF. STA. 31+75.00
PRESENT R.O.W.
PRESENT R.O.W.
PC 126+44.57
SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502
SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469
6" SA
6" SA
MCKENZIE CITY LIMITS

BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

BASELINE - SB_INT		
4A	S 0° 56' 3" E	29.33'
4B	S 0° 44' 25" E	150.00'
4C	S 5° 17' 48" E	265.24'

BASELINE - NB_JTURN		
5A	N 0° 47' 22" W	25.00'
5B	N 0° 47' 22" W	30.76'
5C	N 0° 51' 12" W	54.44'
5D	N 0° 52' 11" W	57.08'
5E	N 0° 53' 32" W	7.72'
5F	N 3° 41' 49" W	238.32'

BASELINE - NB_BULB		
6A	S 1° 00' 40" E	32.24'
6B	S 0° 46' 55" E	50.95'
6C	S 0° 50' 48" E	51.13'
6D	S 0° 50' 23" E	51.87'
6E	S 0° 46' 05" E	50.05'
6F	S 0° 44' 24" E	50.28'
6G	S 0° 45' 11" E	105.58'
6H	S 0° 48' 51" E	7.91'

CURVE - SR22
CURVE DC100
PI 106+72.14
N 654,235.9381
E 1,232,976.5256
Δs 30° 12' 22" (RT)
θs 4° 30' 00"
Δc 21° 12' 22" (RT)
Dc 3° 00' 00"
Rc 1,909.86
Lc 706.87
Ts 665.93
Ls 300.00
SE MATCH EXISTING
DESIGN SPEED 00 MPH

CURVE - NB_INT
CURVE DC1100
PI 117+30.17
N 655,317.8896
E 1,232,960.5386
Δ 58° 40' 44" (LT)
D 59° 40' 59"
R 96.00
L 98.32
T 53.96
SE 0.000 FT/FT
DESIGN SPEED 00 MPH

CURVE - SB_INT
CURVE DC1200
PI 126+97.90
N 655,291.7781
E 1,232,962.6288
Δ 58° 06' 21" (LT)
D 59° 40' 59"
R 96.00
L 97.36
T 53.33
SE 0.000 FT/FT
DESIGN SPEED 00 MPH

CURVE - NB_JTURN
CURVE DC1300
PI 124+96.22
N 656,084.6109
E 1,232,960.8717
Δ 85° 10' 06" (LT)
D 90° 56' 44"
R 63.00
L 93.65
T 57.90
SE 0.000 FT/FT
DESIGN SPEED 00 MPH

SEALED BY

ELIZABETH G. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

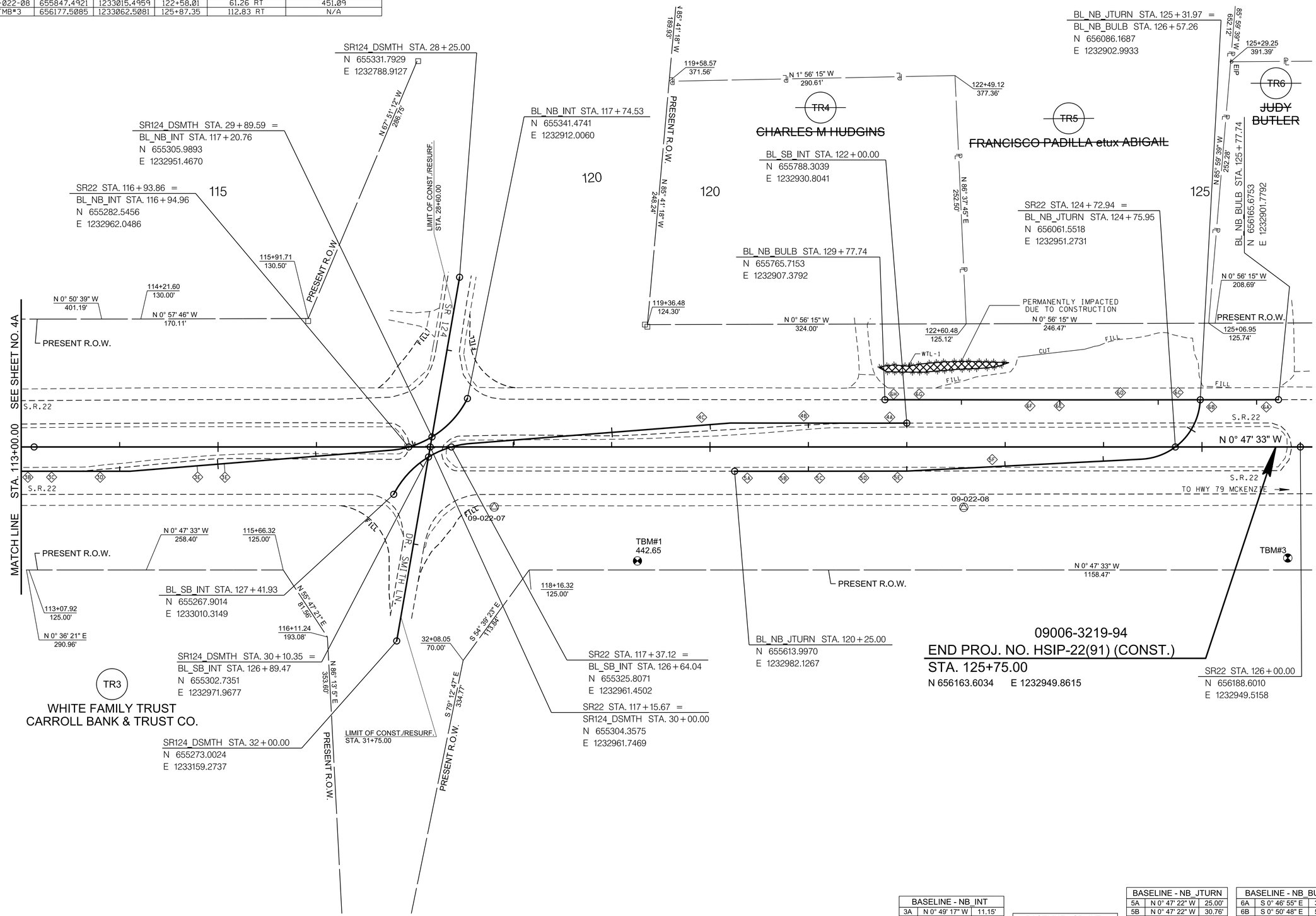
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CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

AREA PATTERNS
CONSTRUCTION EASEMENT
PROP. DRIVEWAY

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	5A
P.I.H.	2026	HSIP-22(91)	5A
PS&E	2026	HSIP-22(91)	5A



BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

BASELINE - SB_INT		
4A	S 0° 56' 3" E	29.33'
4B	S 0° 44' 25" E	150.00'
4C	S 5° 17' 48" E	265.24'

BASELINE - NB_JTURN		
5A	N 0° 47' 22" W	25.00'
5B	N 0° 47' 22" W	30.76'
5C	N 0° 51' 12" W	54.44'
5D	N 0° 52' 11" W	57.08'
5E	N 0° 53' 32" W	7.72'
5F	N 3° 41' 49" W	238.32'

BASELINE - NB_BULB		
6A	S 0° 46' 55" E	30.45'
6B	S 0° 50' 48" E	51.13'
6C	S 0° 50' 23" E	51.87'
6D	S 0° 46' 5" E	50.05'
6E	S 0° 44' 24" E	50.28'
6F	S 0° 40' 40" E	54.29'

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

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CONTROL POINTS & BENCHMARKS ALONG S.R. 22					
POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM#2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM#1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB#3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

SEE SHEETS 23, 24 & 25 FOR PROPOSED SIGNING AND PAVEMENT MARKING DETAILS

SEE SHEET 10 FOR SIDE ROAD PROFILES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	5B
FUNCT.	2024	HSIP-22(91)	5B
P.I.H.	2026	HSIP-22(91)	5B
PS&E	2026	HSIP-22(91)	5B

BASELINE - NB_INT		
3A	N 0° 49' 17" W	11.15'
3B	N 0° 53' 47" W	50.70'
3C	N 0° 47' 32" W	37.77'
3D	N 0° 47' 57" W	60.96'
3E	N 5° 24' 13" W	265.62'

BASELINE - SB_INT		
4A	S 0° 56' 3" E	29.33'
4B	S 0° 44' 25" E	150.00'
4C	S 5° 17' 48" E	265.24'

BASELINE - NB_JTURN		
5A	N 0° 47' 22" W	25.00'
5B	N 0° 47' 22" W	30.76'
5C	N 0° 51' 12" W	54.44'
5D	N 0° 52' 11" W	57.08'
5E	N 0° 53' 32" W	7.72'
5F	N 3° 41' 49" W	238.32'

BASELINE - NB_BULB		
6A	S 1° 00' 40" E	32.24'
6B	S 0° 46' 55" E	50.95'
6C	S 0° 50' 48" E	51.13'
6D	S 0° 50' 23" E	51.87'
6E	S 0° 46' 05" E	50.05'
6F	S 0° 44' 24" E	50.28'
6G	S 0° 45' 11" E	105.58'
6H	S 0° 48' 51" E	7.91'

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158

END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

09006-3219-94

PVMT. TRANSITION
SR22 STA. 114+10.67
OFF 8.67'
1 - 12 FT LN.
1 - 4 FT SHLD.

END 4' - 10' SHOULDER
SR22 STA. 116+57.89
OFF 60.03'

LIMIT OF FULL DEPTH PAVING - SB
STA. 116+10.67

END SPECIAL DITCH
SR22 STA.115+97.56
OFF 14.24' LT

LIMIT OF CONST./RESURF.
STA. 28+60.00

BEGIN 4' - 10' SHOULDER
SR124_DSMTH STA. 28+60.00
OFF 14.79'

BEGIN 5' - 12' SHOULDER
SR124_DSMTH STA. 28+60.00
OFF 16.65'

END 5' - 12' SHOULDER
SR22 STA. 118+07.12
OFF 60.21'

SEE INSET THIS SHEET

BEGIN PVMT. TRANSITION
SR22 STA. 118+20.67
OFF 7.44'
1 - 16 FT GORE
1 - 12 FT LN.
1 - 4 FT LN.

PVMT. TRANSITION
SR22 STA. 122+00.00
OFF 8.52'
1 - 12 FT LN.
1 - 4 FT SHLD.

LIMIT OF FULL DEPTH PAVING - SB
STA. 121+70.67

LIMIT OF FULL DEPTH PAVING - SB
STA. 122+70.79

VAR. TRAP. SOD/CONC.

PVMT. TRANSITION
SR22 STA. 120+20.67
OFF 8.31'
1 - 12 FT LN.
1 - 4 FT SHLD.

END PVMT. TRANSITION
SR22 STA. 121+70.67
OFF 19.87'
1 - 4 FT SHLD.

BEGIN PVMT. TRANSITION
SR22 STA. 123+12.90
OFF 60.06'
1 - 10 FT SHLD.

END PVMT. TRANSITION
SR22 STA. 124+94.44
OFF 59.96'
1 - 10 FT SHLD.

END PROPOSED BERM
SR22 STA.124+90.42
OFF 109.65' LT

END SPECIAL DITCH
SR22 STA.124+90.43
OFF 94.90' LT

BEGIN PROPOSED BERM
SR22 STA.124+00.43
OFF 104.55' LT

BEGIN SPECIAL DITCH
SR22 STA.123+12.92
OFF 88.17' LT

PVMT. TRANSITION
SR22 STA. 124+57.35
OFF 86.90'
1 - 35 FT LN.
1 - 2 FT SHLD.

SEE INSET THIS SHEET

SEE SHEET NO. 4B

MATCH LINE STA. 113+00.00

S.R.22

VAR. TRAP. SOD

5' TRAP. SOD

PROP. PIPE 18"RCP L-5'

N 0° 47' 33" W

TO HWY 79 MCKENZIE

CB-1 #38

CB-2 #38

CB-3 #38

CB-4 #38

EW-7 UEW

EW-8 UEW

PROP. PIPE 18"RCP L-72'

PROP. PIPE 18"RCP L-91'

DR. SMITH LN.

END PVMT. TRANSITION
SR22 STA. 116+10.67
OFF 7.46'
1 - 16 FT GORE
1 - 12 FT LN.
1 - 4 FT LN.

BEGIN 12' - 0' SHOULDER
SR22 STA. 116+20.12
OFF 59.63'

END 11' - 0' SHOULDER
SR124_DSMTH STA. 31+40.00
OFF 11.16'

END 12' - 0' SHOULDER
SR124_DSMTH STA. 31+75.00
OFF 10.63'

BEGIN 11' - 0' SHOULDER
SR22 STA. 117+69.27
OFF 59.53'

LIMIT OF CONST./RESURF.
STA. 31+75.00

BEGIN SPECIAL DITCH
SR22 STA.118+27.45
OFF 14.42' RT

LIMIT OF FULL DEPTH PAVING - NB
STA. 118+20.67

BEGIN PVMT. TRANSITION
SR22 STA. 120+50.00
OFF 20.70'
1 - 4 FT LN.

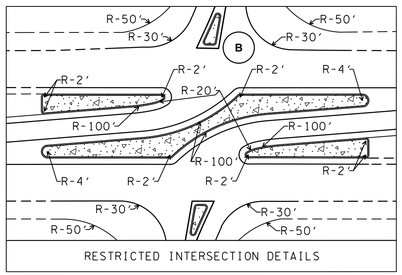
LIMIT OF FULL DEPTH PAVING - NB
STA. 120+50.00

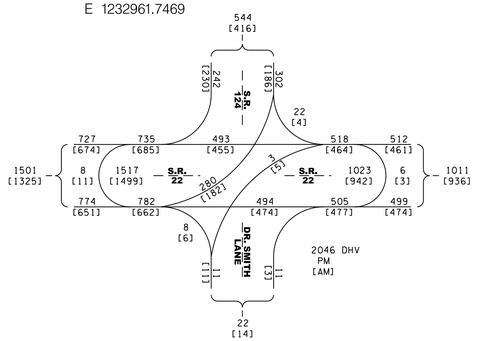
BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

END PVMT. TRANSITION
SR22 STA. 124+00.00
OFF 1.63'
1 - 10 FT GORE
1 - 12 FT LN.
1 - 4 FT SHLD.

END SPECIAL DITCH
SR22 STA.124+13.46
OFF 11.31' LT

LIMIT OF FULL DEPTH PAVING
STA. 125+11.07





CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

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STATE OF TENNESSEE
09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.113+00.00 TO STA.126+00.00

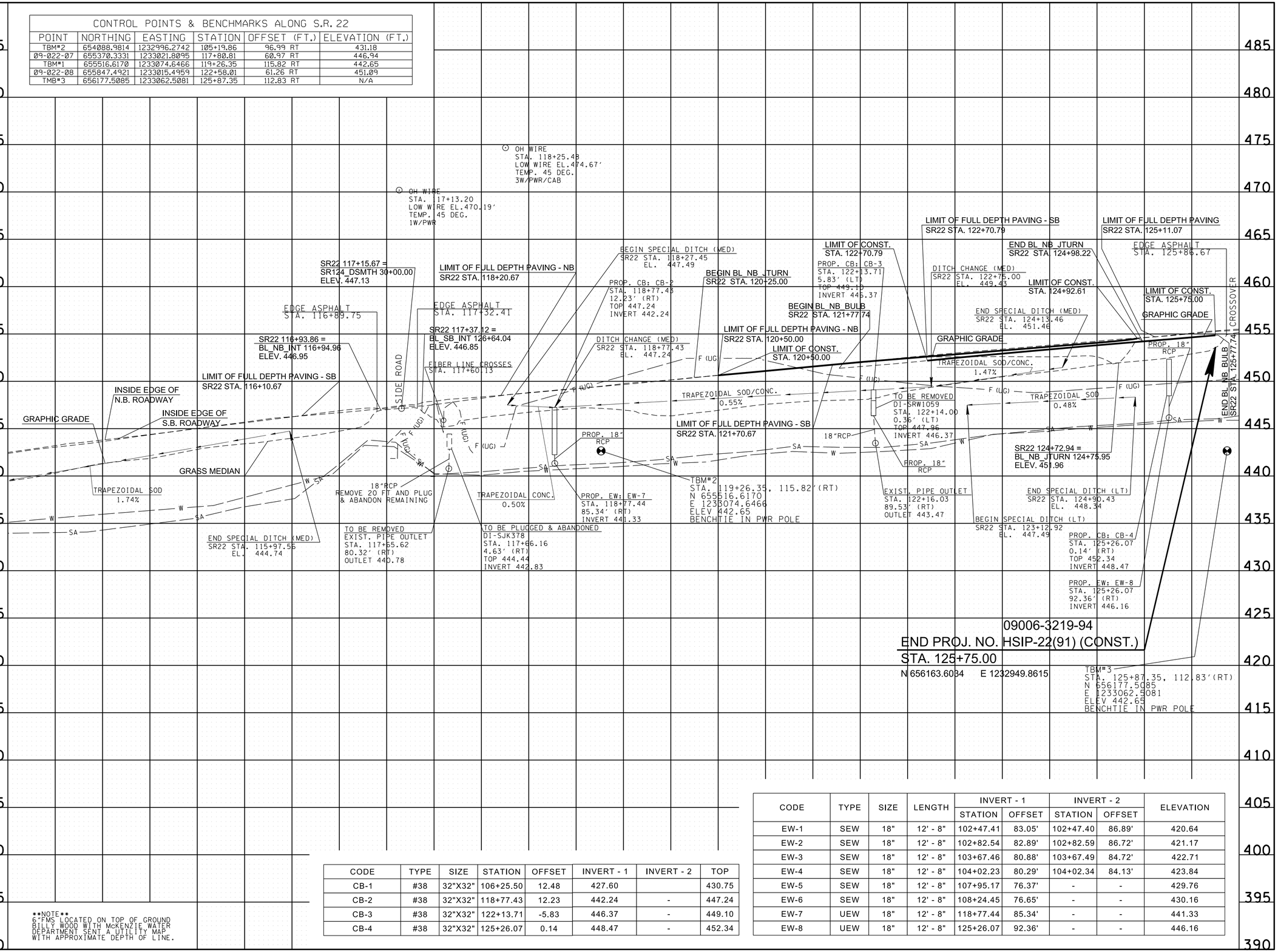
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	5C
FUNCT.	2024	HSIP-22(91)	5C
P.I.H.	2026	HSIP-22(91)	5C
PS&E	2026	HSIP-22(91)	5C

CONTROL POINTS & BENCHMARKS ALONG S.R. 22

POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM*2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM*1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB*3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

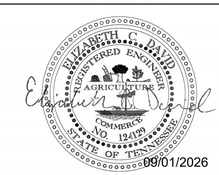


CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

NOTE
6"FMS LOCATED ON TOP OF GROUND BILLY WOOD WITH McKENZIE WATER DEPARTMENT SENT A UTILITY MAP WITH APPROXIMATE DEPTH OF LINE.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

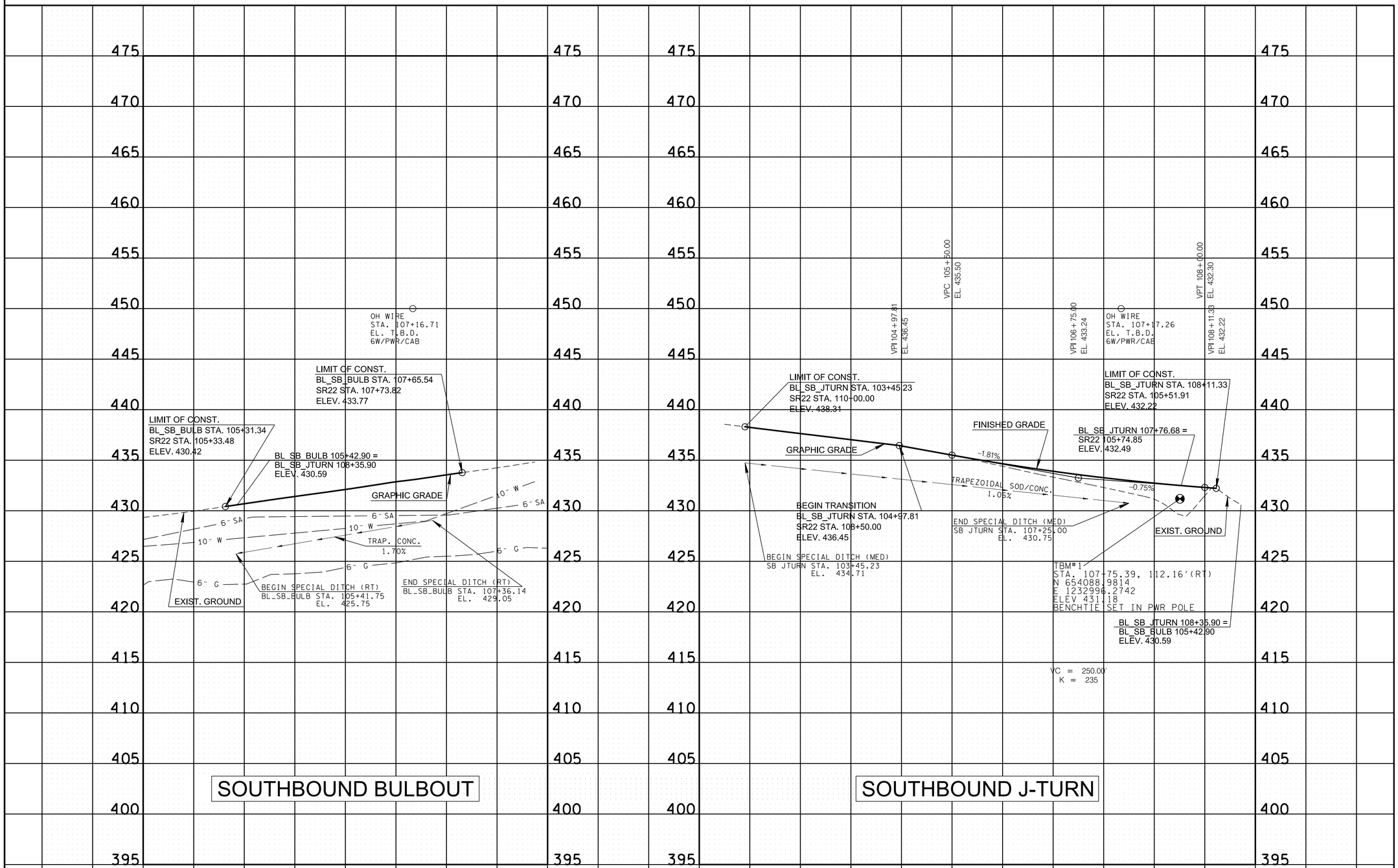
PROPOSED PROFILE

STA.113+00.00 TO STA.126+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	6
FUNCT.	2024	HSIP-22(91)	6
P.I.H.	2026	HSIP-22(91)	6
PS&E	2026	HSIP-22(91)	6



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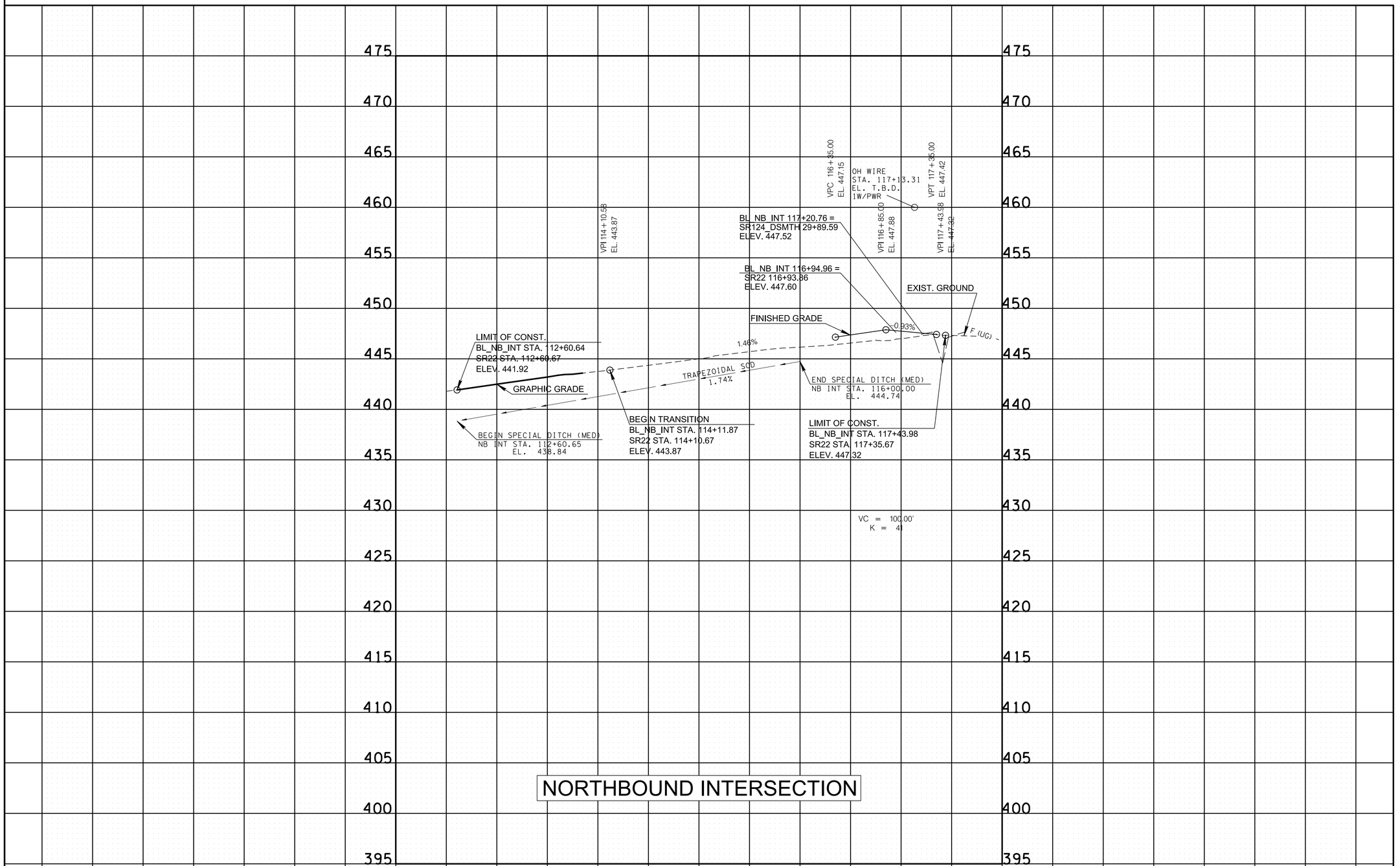
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RAMP PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	7
FUNCT.	2024	HSIP-22(91)	7
P.I.H.	2026	HSIP-22(91)	7
PS&E	2026	HSIP-22(91)	7



SEE SHEET 4B AND
5B FOR PROPOSED
LOCATIONS

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AGRICULTURE
COMMERCE
AND
STATE OF TENNESSEE
09/01/2026

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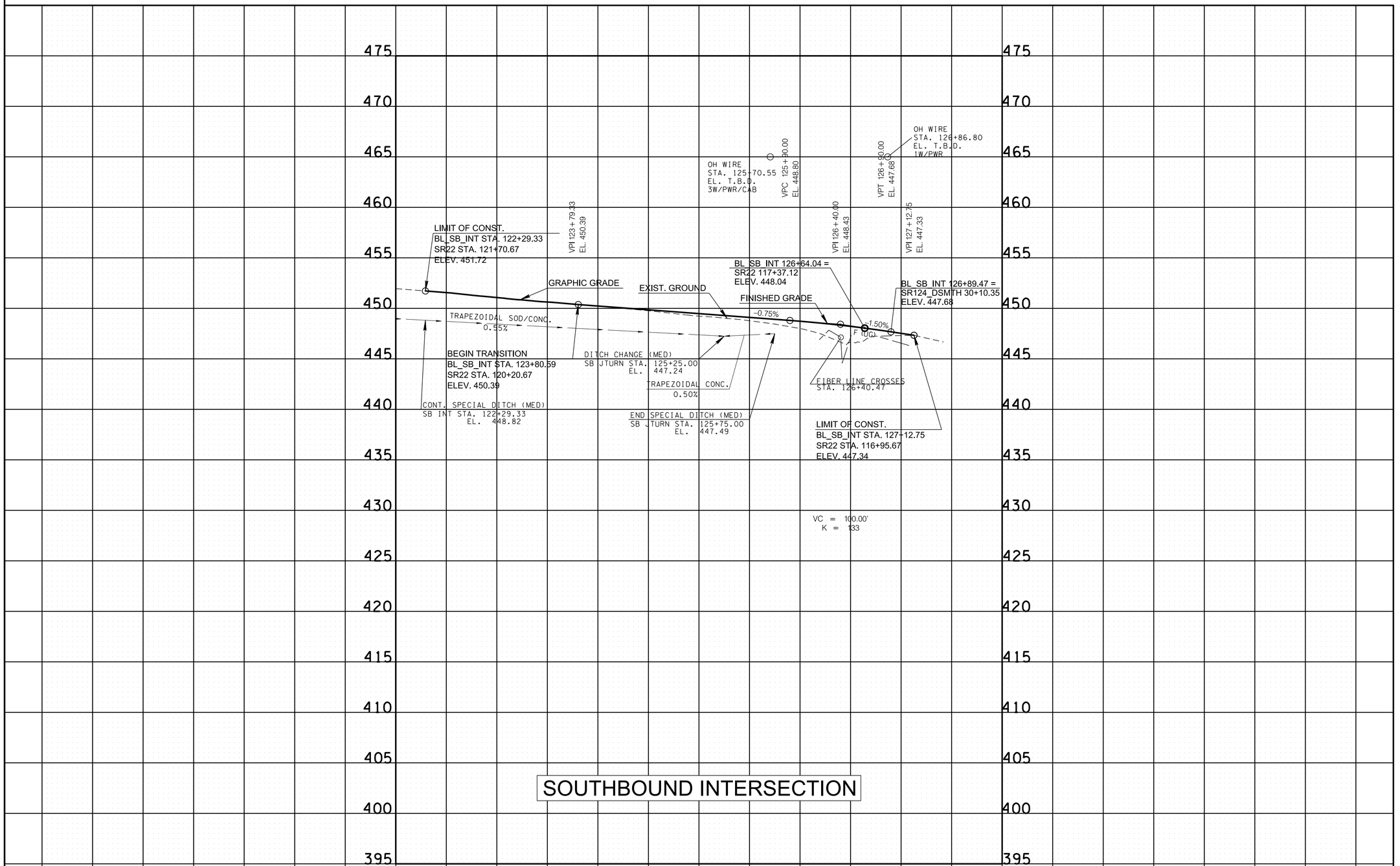
STATE OF TENNESSEE
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RAMP PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	8
P.I.H.	2026	HSIP-22(91)	8
PS&E	2026	HSIP-22(91)	8



SEE SHEET 5B
FOR PROPOSED
LOCATIONS

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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

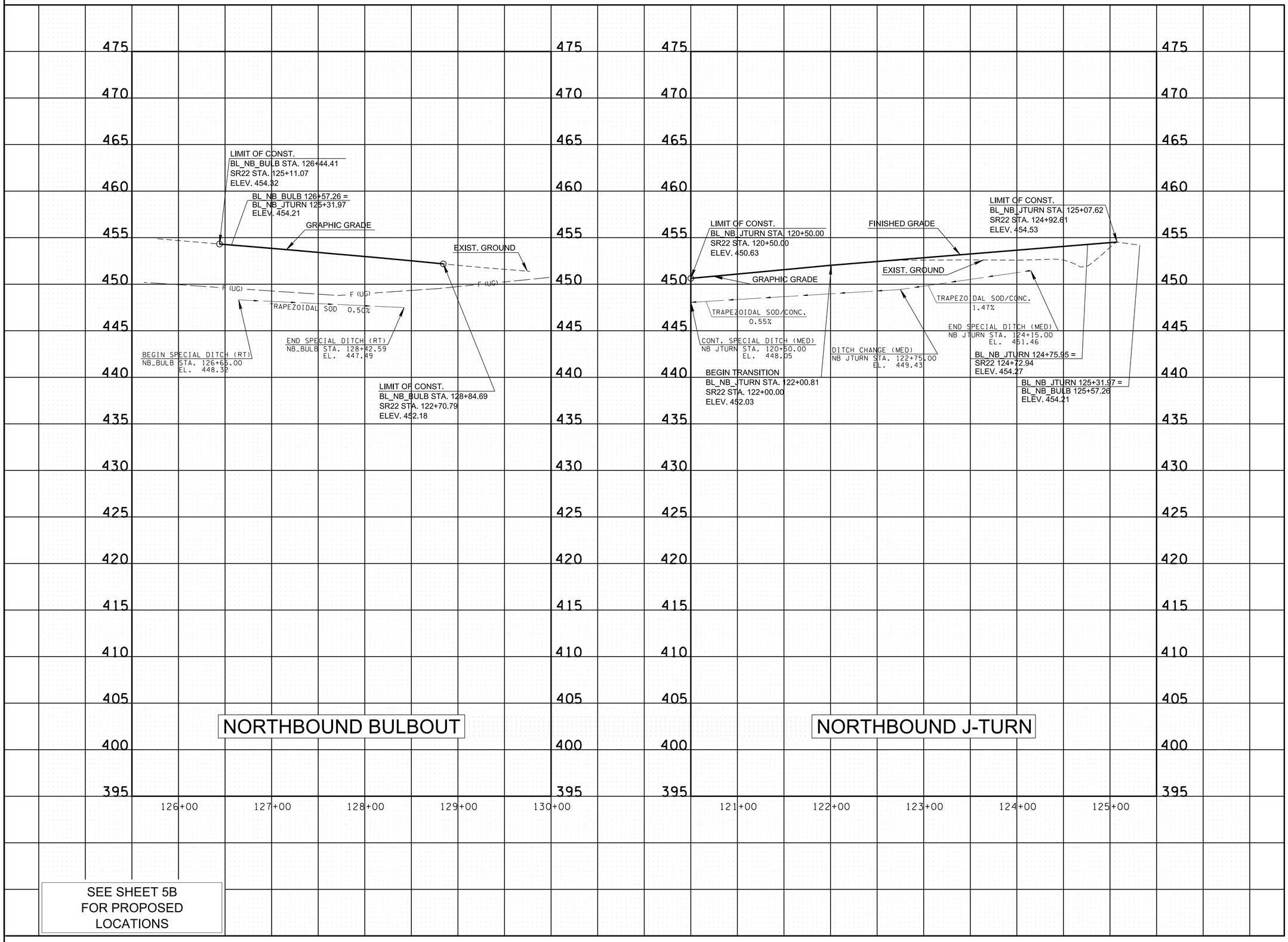
RAMP PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	9
P.I.H.	2026	HSIP-22(91)	9
PS&E	2026	HSIP-22(91)	9



SEE SHEET 5B
FOR PROPOSED
LOCATIONS

SEALED BY



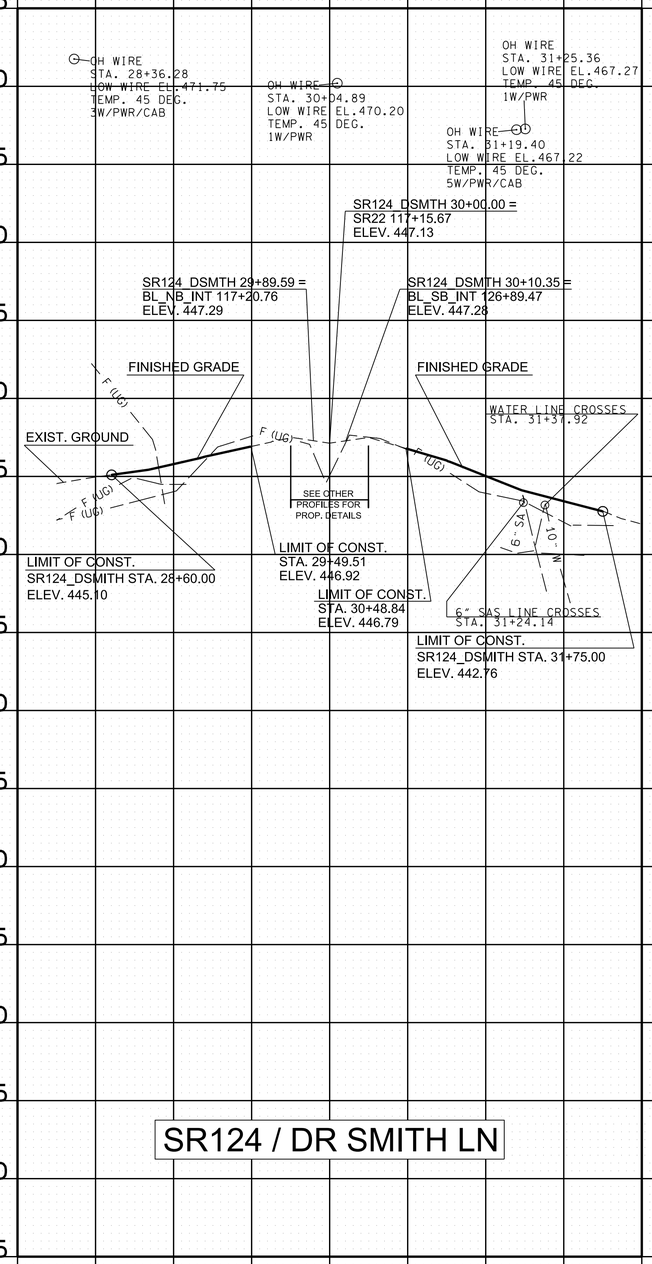
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RAMP PROFILES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	8
FUNCT.	2024	HSIP-22(91)	10
P.I.H.	2026	HSIP-22(91)	10
PS&E	2026	HSIP-22(91)	10



SEE SHEET 5B
FOR PROPOSED
SIDE ROAD

CONTROL POINTS & BENCHMARKS ALONG S.R. 22

POINT	NORTHING	EASTING	STATION	OFFSET (FT.)	ELEVATION (FT.)
TBM*2	654088.9814	1232996.2742	105+19.86	96.99 RT	431.18
09-022-07	655370.3331	1233021.8095	117+80.81	60.97 RT	446.94
TBM*1	655516.6170	1233074.6466	119+26.35	115.82 RT	442.65
09-022-08	655847.4921	1233015.4959	122+58.01	61.26 RT	451.09
TMB*3	656177.5085	1233062.5081	125+87.35	112.83 RT	N/A

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COMMERCE
NO. 124109
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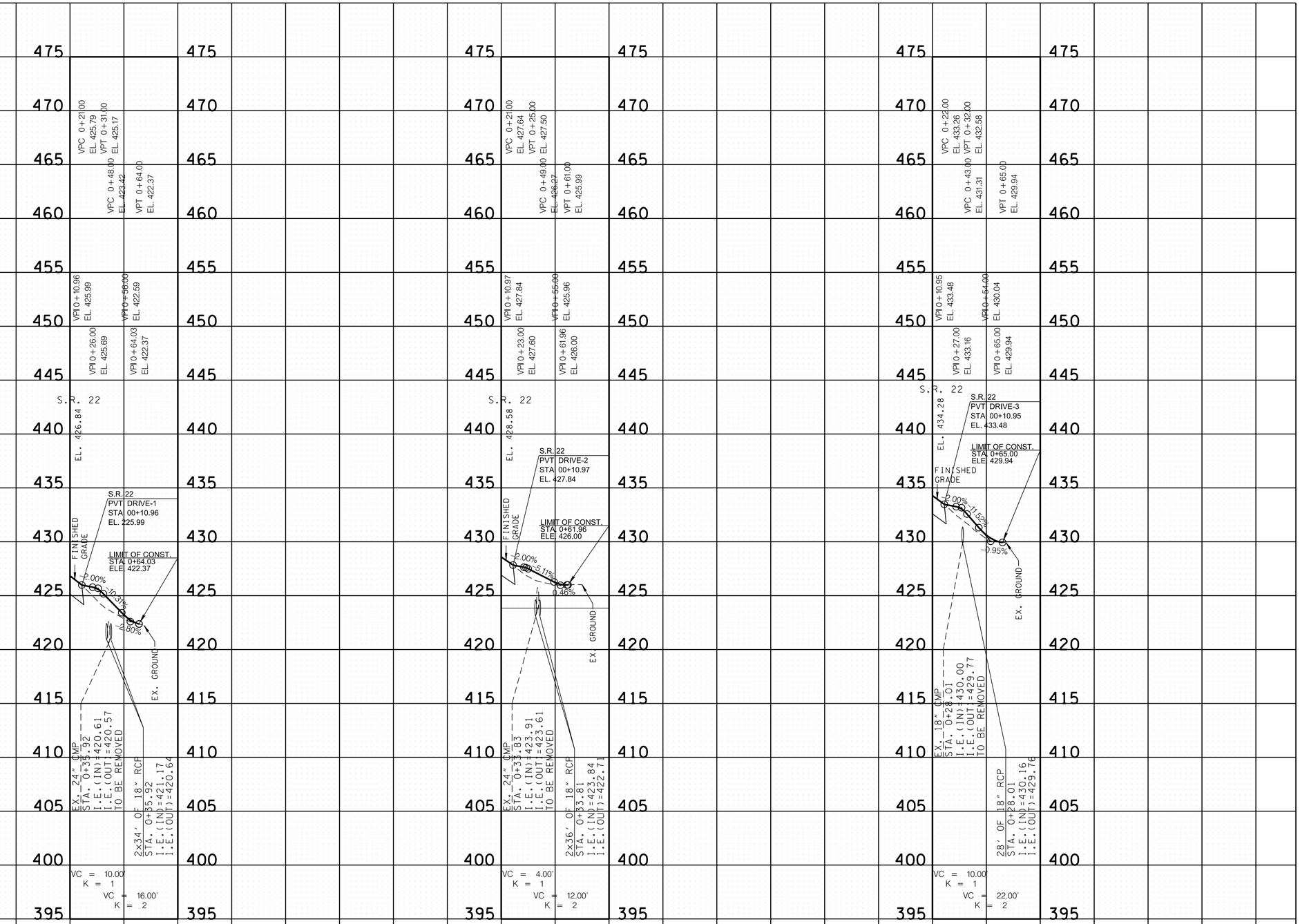
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SIDE ROAD PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	11
P.I.H.	2026	HSIP-22(91)	11
PS&E	2026	HSIP-22(91)	11



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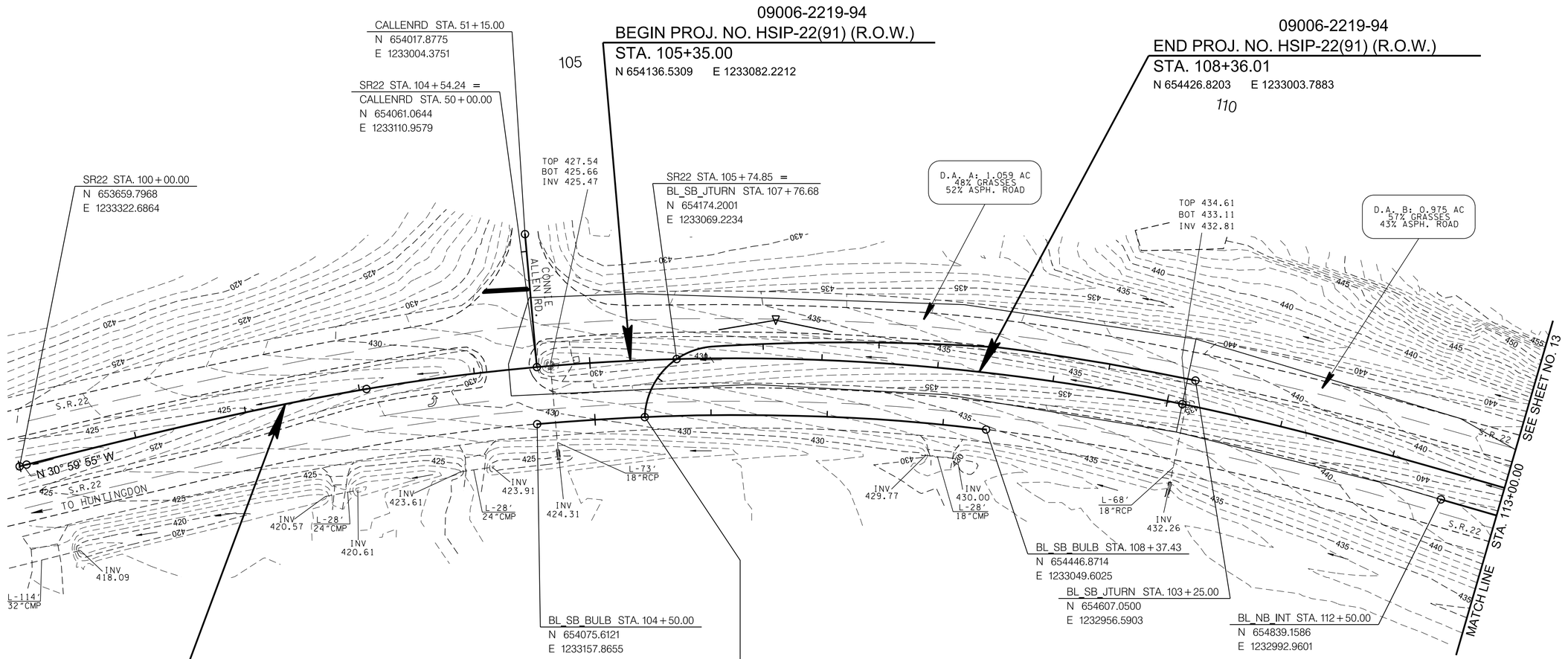
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	12
P.I.H.	2026	HSIP-22(91)	12
PS&E	2026	HSIP-22(91)	12

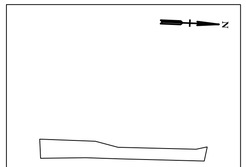


DRAINAGE DATA FOR D.A. A
STATION 104+65.82 IN MEDIAN

DIRECTION OF FLOW: SOUTH SOUTHEAST
DRAINAGE AREA 1.059, (X) FLAT; ( ) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: DROP INLET/18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: DISCHARGE: Q50 - 0.19 CFS / Q100 - 0.21 CFS
VELOCITY: V50 - 0.03 FPS / V100 - 0.03 FPS

DRAINAGE DATA FOR D.A. B
STATION 110+16.83 IN MEDIAN

DIRECTION OF FLOW: SOUTH
DRAINAGE AREA 0.975 AC, (X) FLAT; ( ) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: DROP INLET/18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: DISCHARGE: Q50 - 0.16 CFS / Q100 - 0.17 CFS
VELOCITY: V50 - 0.02 FPS / V100 - 0.02 FPS



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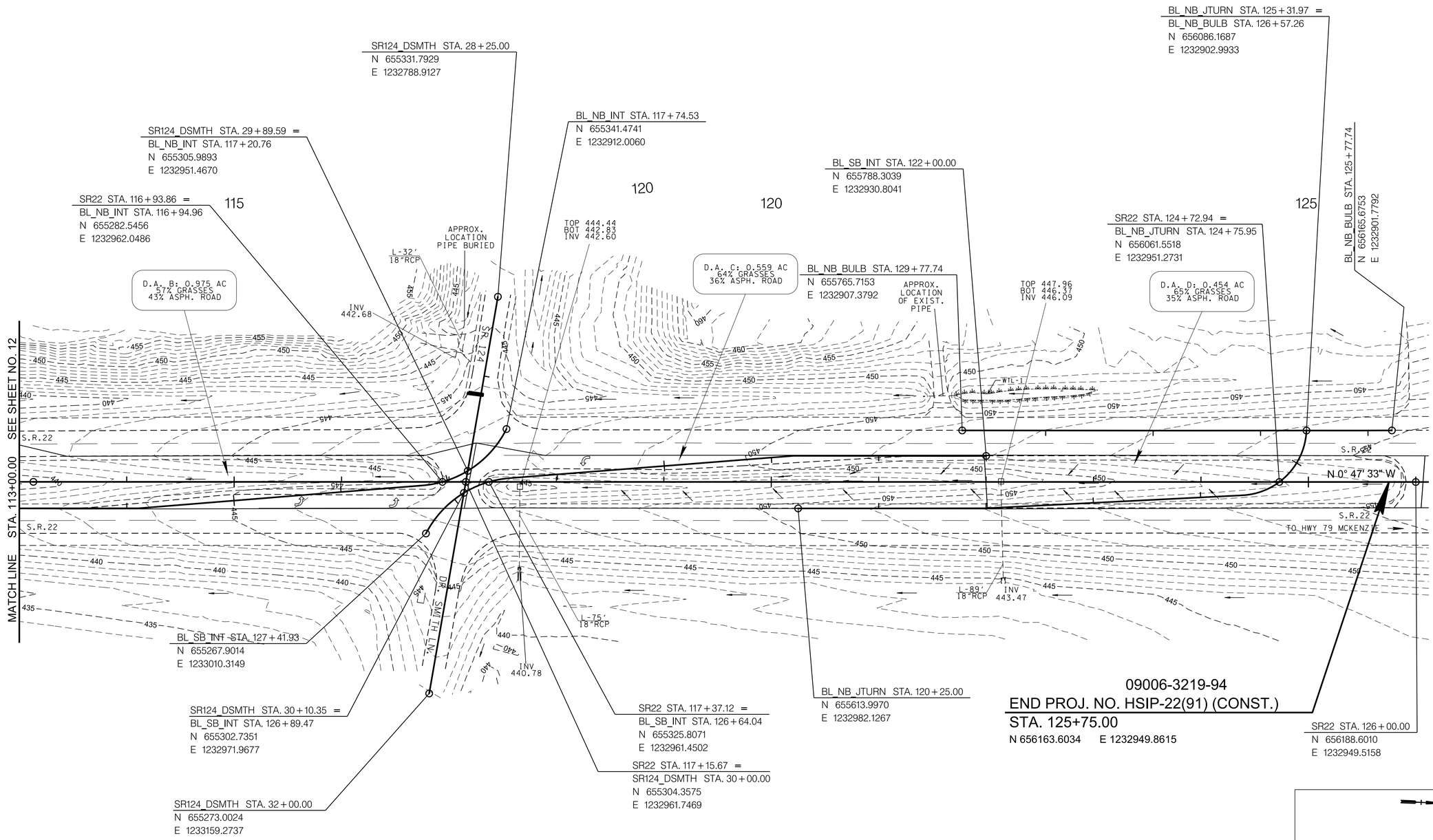
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.100+00.00 TO STA.113+00.00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	9
FUNCT.	2024	HSIP-22(91)	13
P.I.H.	2026	HSIP-22(91)	13
PS&E	2026	HSIP-22(91)	13



DRAINAGE DATA FOR D.A. B
STATION 110+16.83 IN MEDIAN

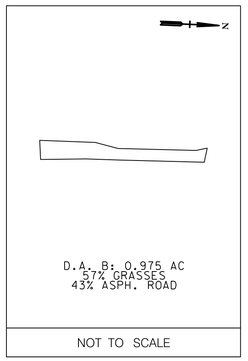
DIRECTION OF FLOW: SOUTH
DRAINAGE AREA 0.975 AC, (X) FLAT; ( ) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: DROP INLET/18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: DISCHARGE: Q50 - 0.16 CFS / Q100 - 0.17 CFS
VELOCITY: V50 - 0.02 FPS / V100 - 0.02 FPS

DRAINAGE DATA FOR D.A. C
STATION 117+66.16 IN MEDIAN

DIRECTION OF FLOW: SOUTH
DRAINAGE AREA 0.559 AC, (X) FLAT; ( ) ROLLING; ( ) HILLY; ( ) MTNS.
PRESENT STRUCTURE: DROP INLET/18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: DISCHARGE: Q50 - 0.08 CFS / Q100 - 0.09 CFS
VELOCITY: V50 - 0.01 FPS / V100 - 0.01 FPS

DRAINAGE DATA FOR D.A. D
STATION 122+14.00 IN MEDIAN

DIRECTION OF FLOW: EAST
DRAINAGE AREA 0.454 AC, (X) FLAT
PRESENT STRUCTURE: DROP INLET / 18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: DISCHARGE: Q50 - 0.07 CFS / Q100 - 0.07 CFS
VELOCITY: V50 - 0.01 FPS / V100 - 0.01 FPS



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DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

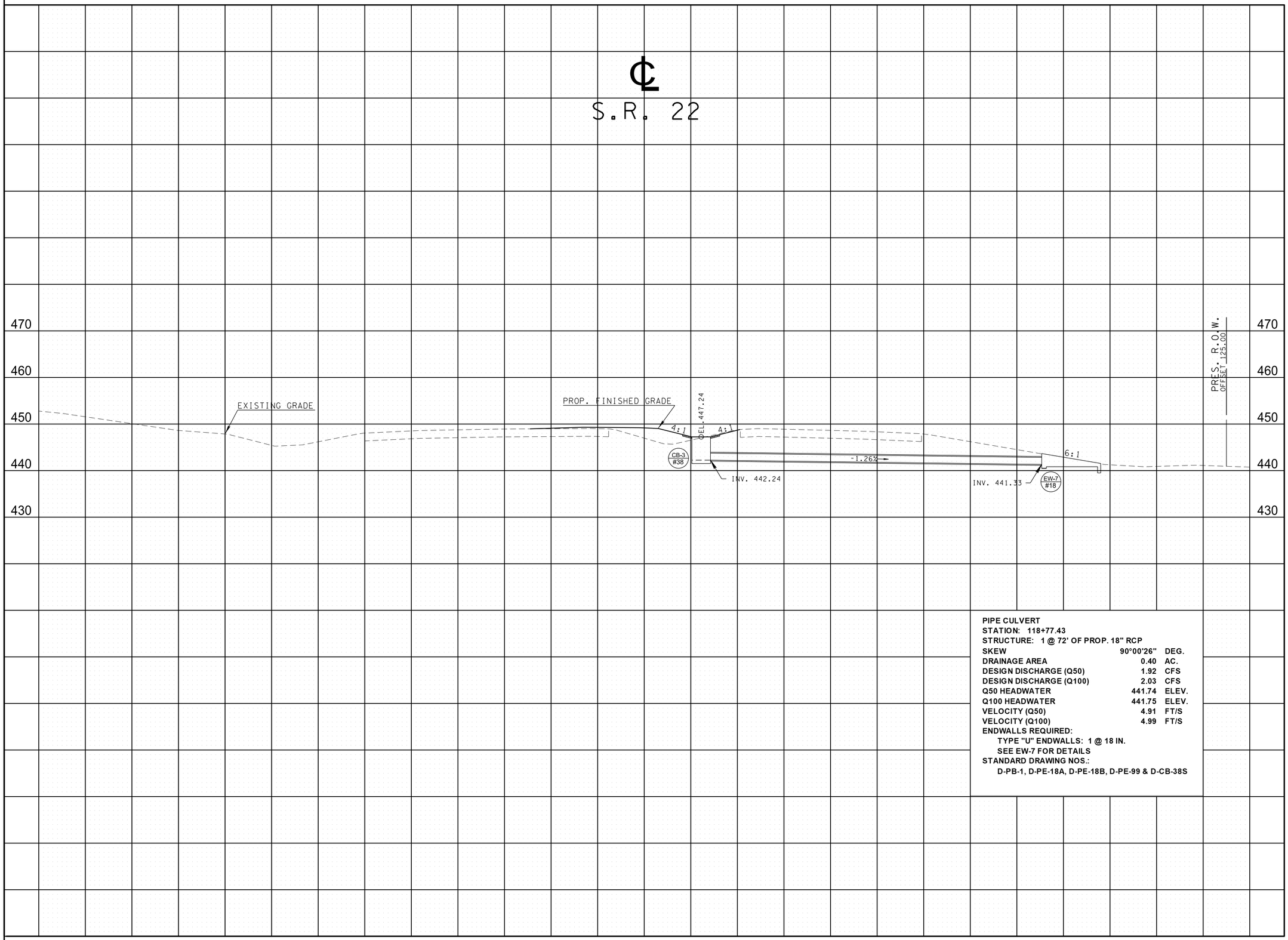
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SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	14
P.I.H.	2026	HSIP-22(91)	14
PS&E	2026	HSIP-22(91)	14

℄
S.R. 22



PIPE CULVERT
STATION: 118+77.43
STRUCTURE: 1 @ 72' OF PROP. 18" RCP

SKEW	**90°00'26"**	**DEG.**
DRAINAGE AREA	**0.40**	**AC.**
DESIGN DISCHARGE (Q50)	**1.92**	**CFS**
DESIGN DISCHARGE (Q100)	**2.03**	**CFS**
Q50 HEADWATER	**441.74**	**ELEV.**
Q100 HEADWATER	**441.75**	**ELEV.**
VELOCITY (Q50)	**4.91**	**FT/S**
VELOCITY (Q100)	**4.99**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" ENDWALLS: 1 @ 18 IN.
SEE EW-7 FOR DETAILS
STANDARD DRAWING NOS.:
D-PB-1, D-PE-18A, D-PE-18B, D-PE-99 & D-CB-38S

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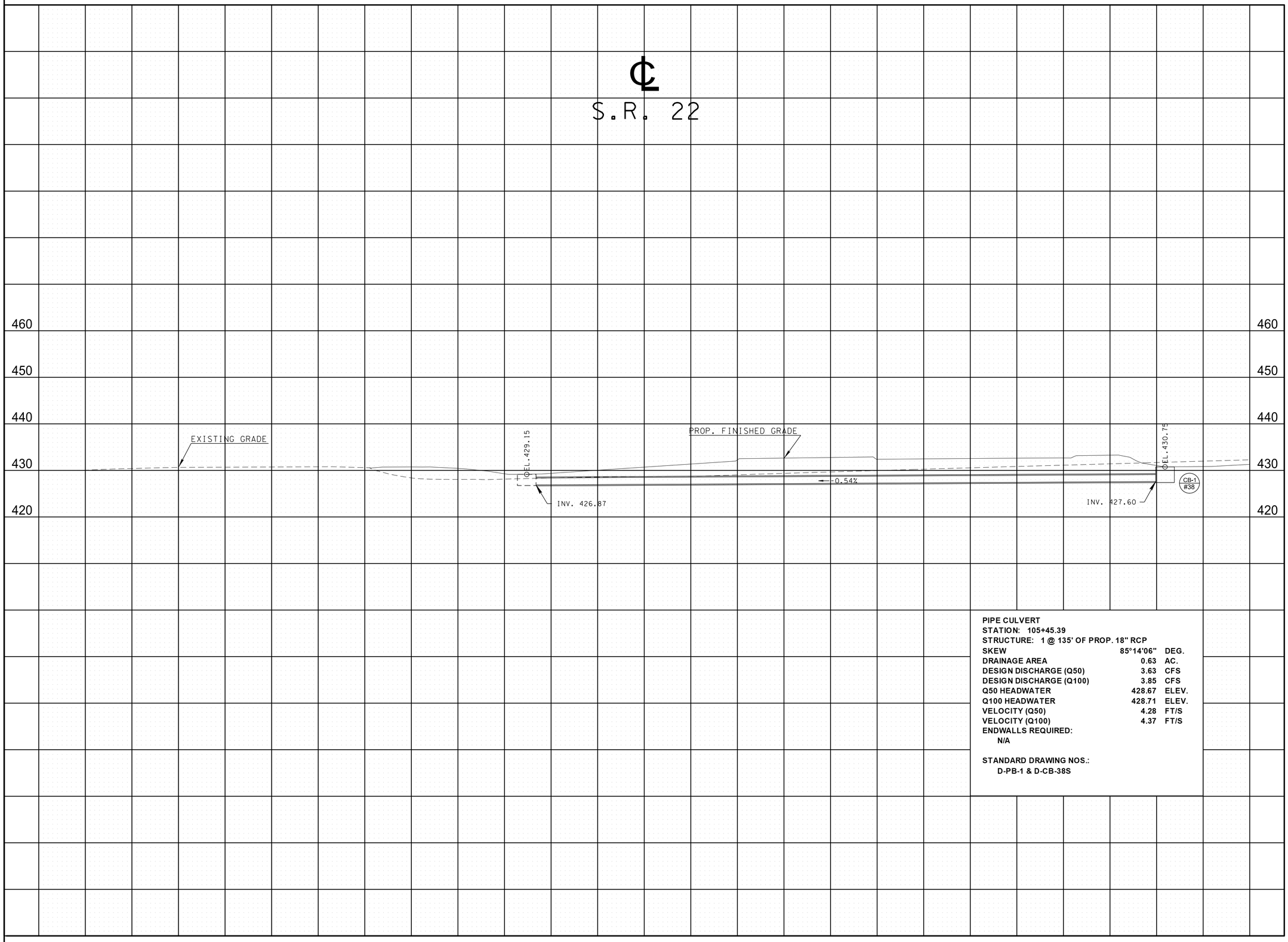
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	HSIP-22(91)	15



PIPE CULVERT
STATION: 105+45.39
STRUCTURE: 1 @ 135' OF PROP. 18" RCP

SKEW	**85°14'06"**	**DEG.**
DRAINAGE AREA	**0.63**	**AC.**
DESIGN DISCHARGE (Q50)	**3.63**	**CFS**
DESIGN DISCHARGE (Q100)	**3.85**	**CFS**
Q50 HEADWATER	**428.67**	**ELEV.**
Q100 HEADWATER	**428.71**	**ELEV.**
VELOCITY (Q50)	**4.28**	**FT/S**
VELOCITY (Q100)	**4.37**	**FT/S**

ENDWALLS REQUIRED:
N/A

STANDARD DRAWING NOS.:
D-PB-1 & D-CB-38S

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NO. 124109
STATE OF TENNESSEE

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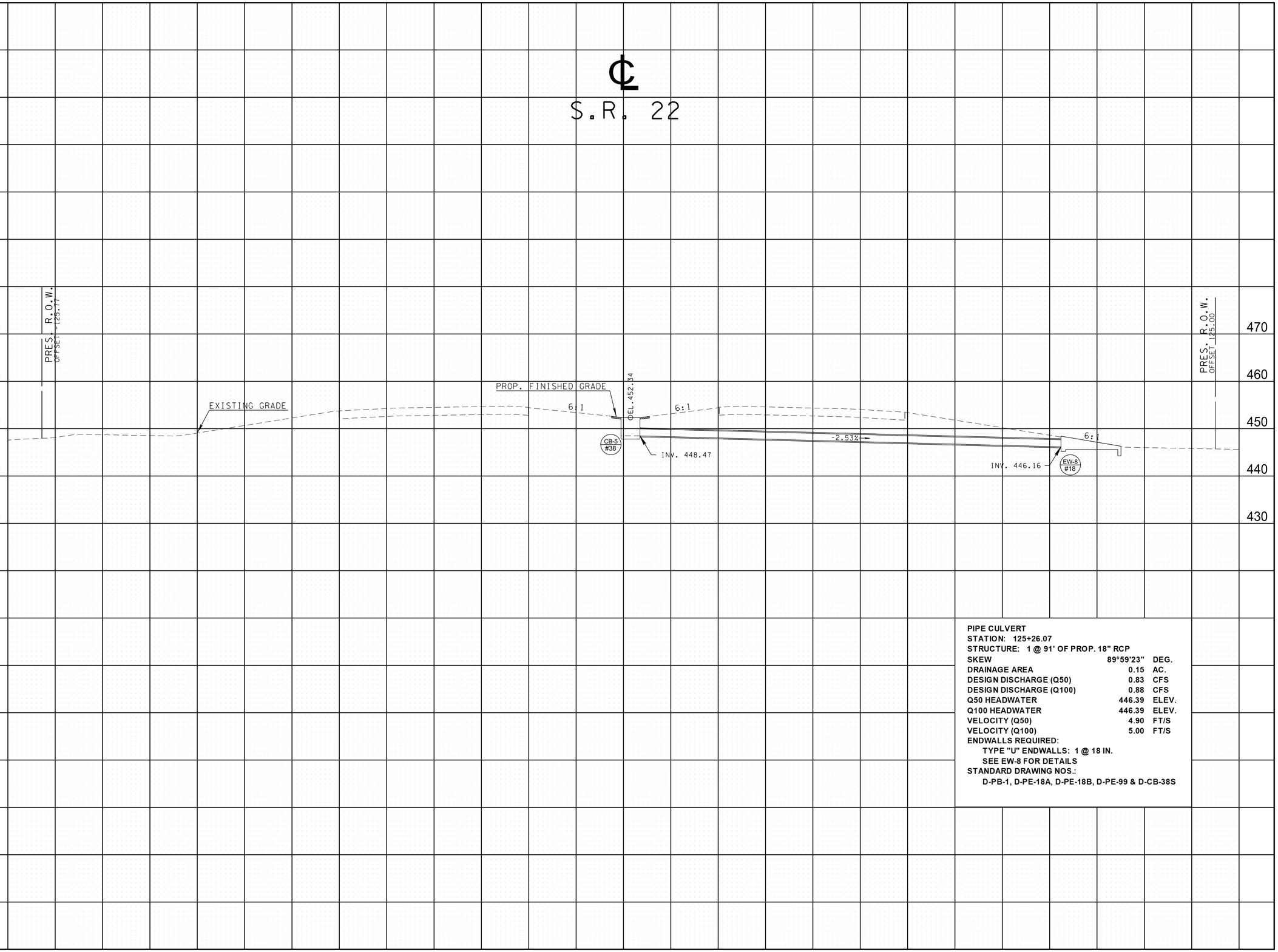
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DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	15
P.I.H.	2026	HSIP-22(91)	15
PS&E	2026	HSIP-22(91)	16



PIPE CULVERT
STATION: 125+26.07
STRUCTURE: 1 @ 91' OF PROP. 18" RCP

SKEW	**89°59'23"**	**DEG.**
DRAINAGE AREA	**0.15**	**AC.**
DESIGN DISCHARGE (Q50)	**0.83**	**CFS**
DESIGN DISCHARGE (Q100)	**0.88**	**CFS**
Q50 HEADWATER	**446.39**	**ELEV.**
Q100 HEADWATER	**446.39**	**ELEV.**
VELOCITY (Q50)	**4.90**	**FT/S**
VELOCITY (Q100)	**5.00**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" ENDWALLS: 1 @ 18 IN.
SEE EW-8 FOR DETAILS
STANDARD DRAWING NOS.:
D-PB-1, D-PE-18A, D-PE-18B, D-PE-99 & D-CB-38S

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AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

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

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EROSION PREVENTION AND SEDIMENT CONTROL 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	16
P.I.H.	2026	HSIP-22(91)	16
PS&E	2026	HSIP-22(91)	17

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	17
P.I.H.	2026	HSIP-22(91)	17
PS&E	2026	HSIP-22(91)	18

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 09006-3219-94
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	29
	209-03.21	FILTER SOCK (12 INCH)	L.F.	58
	209-05	SEDIMENT REMOVAL	C.Y.	64
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	360
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1697
	209-09.01	SANDBAGS	EACH	25
	209-20.04	POLYETHYLENE SHEETING (10 MIL.)	S.Y.	200
	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	9
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	25
(1)	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	72
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	50
(1)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	136
(2)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	666
	740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	3040
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	165
(3)	801-03	WATER (SEEDING AND SODDING)	M.G.	50
(4)	803-01	SODDING (NEW SOD)	S.Y.	3360

(1) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.

(2) INCLUDES 343 S.Y. FOR TEMPORARY CONSTRUCTION EXITS AND 323 S.Y. FOR TYPE 1 CULVERT PROTECTION.

(3) INCLUDES 17 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(4) INCLUDES 1384 S.Y. FOR SPECIAL DITCHES.

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.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

	SYMBOL	ITEM	STD. DWG.
1 2	✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
1 2	✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
1	✱✱SOCK 12"✱✱SOCK 12"✱✱	12 INCH FILTER SOCK	EC-STR-8
1	✱✱TUBE 20"✱✱TUBE 20"✱✱	20 INCH SEDIMENT TUBE	EC-STR-37
1	C	CULVERT PROTECTION (TYPE 1)	EC-STR-11
1	A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
1 3	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

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

(2) J-HOOKS SHALL BE INSTALLED FOR SILT FENCE INSTALLED ACROSS A CONTOUR.

(3) APPROPRIATE LOCATION OF EXIT TO BE DETERMINED IN THE FIELD.

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NO. 124199
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

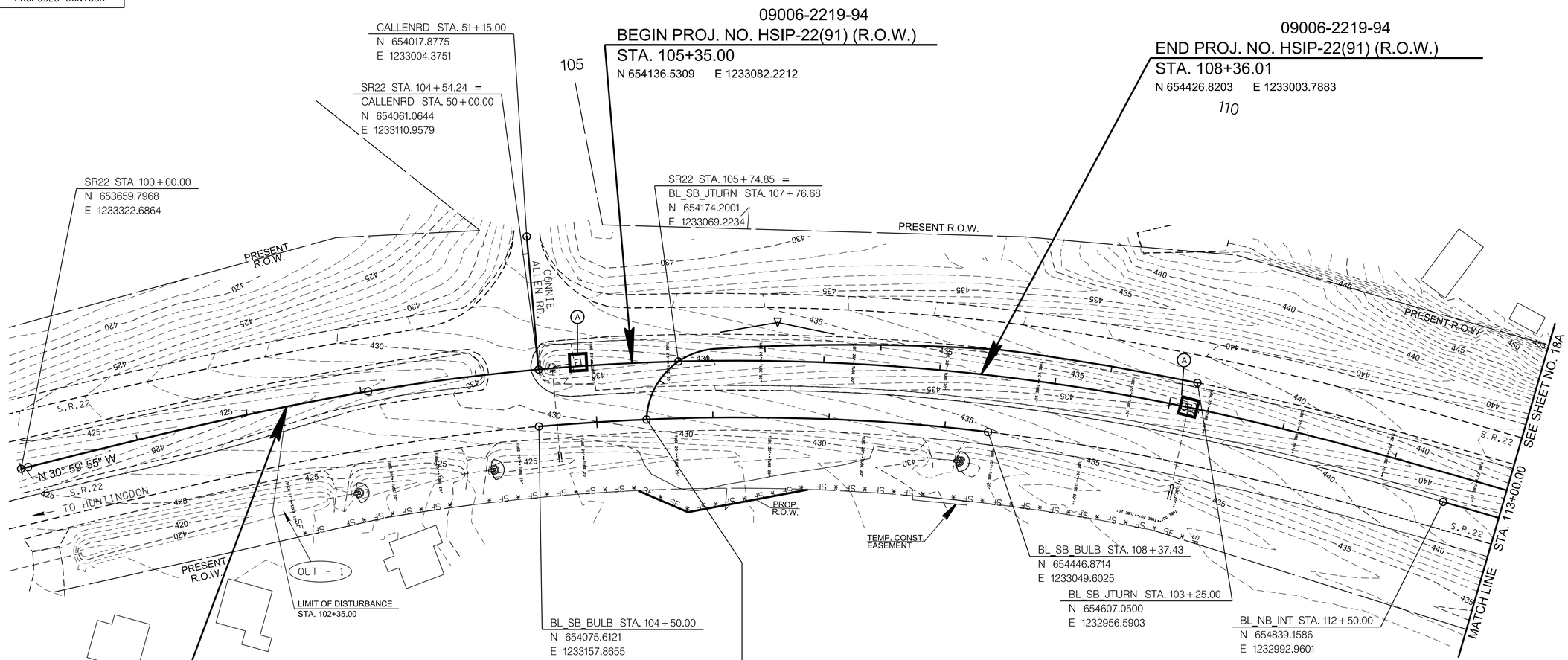
AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS		
OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.61 AC	3.03%
OUT-2	0.28 AC	2.64%
OUT-3	3.09 AC	3.48%
OUT-4	2.26 AC	0.82%

NOTES:
1. THE DISTURBED AREA WITHIN THE R.O.W. IS LIMITED TO 15 FEET BEYOND THE SLOPE LIMITS.
2. USE J-HOOKS WHERE SILT FENCE CROSSES CONTOURS.
3. TEMPORARY CONSTRUCTION EXIT TO BE LOCATED BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	18
P.I.H.	2026	HSIP-22(91)	18
PS&E	2026	HSIP-22(91)	19



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE I
EXISTING CONTOURS

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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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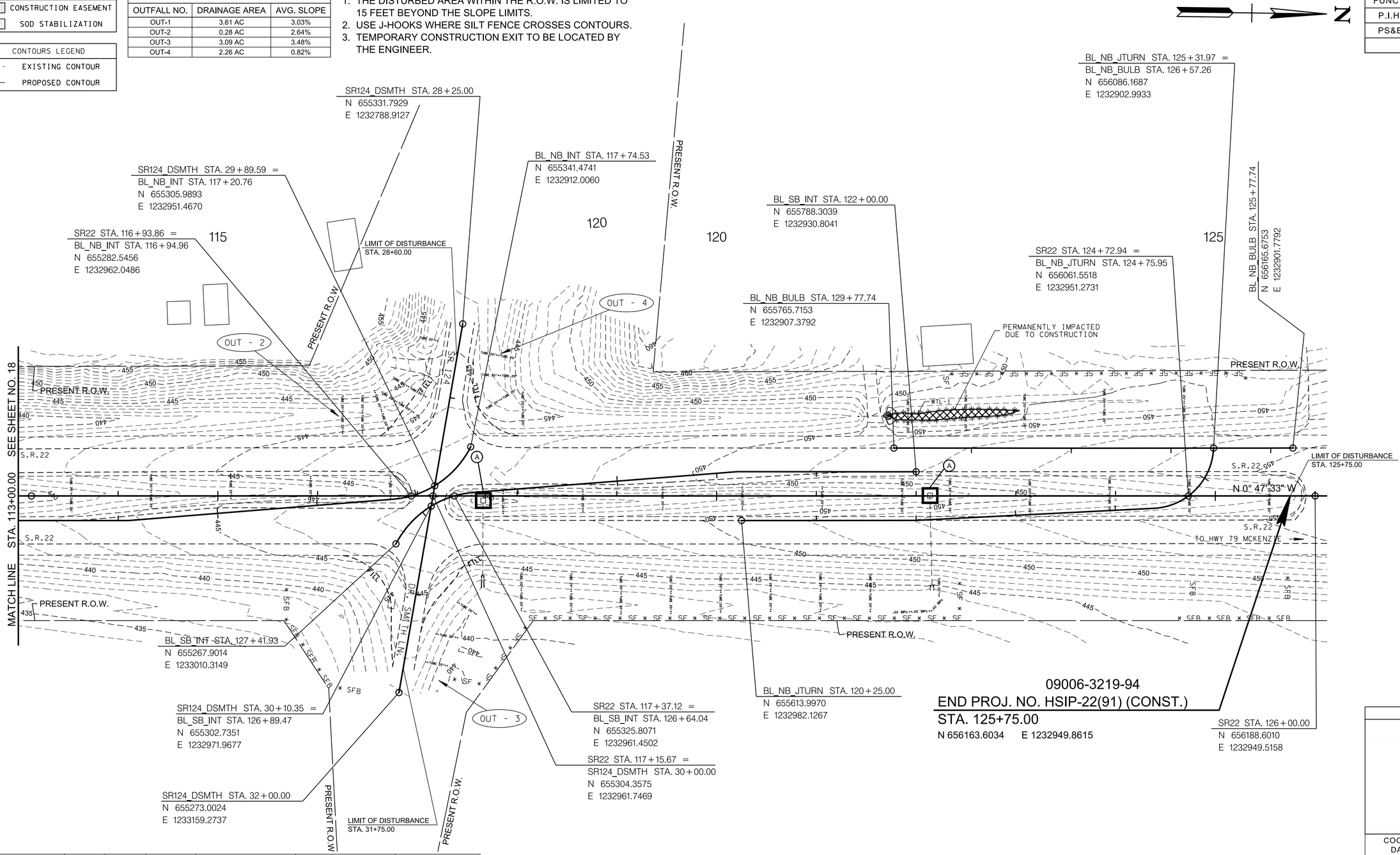
AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS		
OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.61 AC	3.03%
OUT-2	0.28 AC	2.64%
OUT-3	3.09 AC	3.48%
OUT-4	2.26 AC	0.82%

NOTES:
1. THE DISTURBED AREA WITHIN THE R.O.W. IS LIMITED TO 15 FEET BEYOND THE SLOPE LIMITS.
2. USE J-HOOKS WHERE SILT FENCE CROSSES CONTOURS.
3. TEMPORARY CONSTRUCTION EXIT TO BE LOCATED BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	18A
P.I.H.	2026	HSIP-22(91)	18A
PS&E	2026	HSIP-22(91)	19A



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE I
EXISTING
CONTOURS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

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SCALE: 1"=50'

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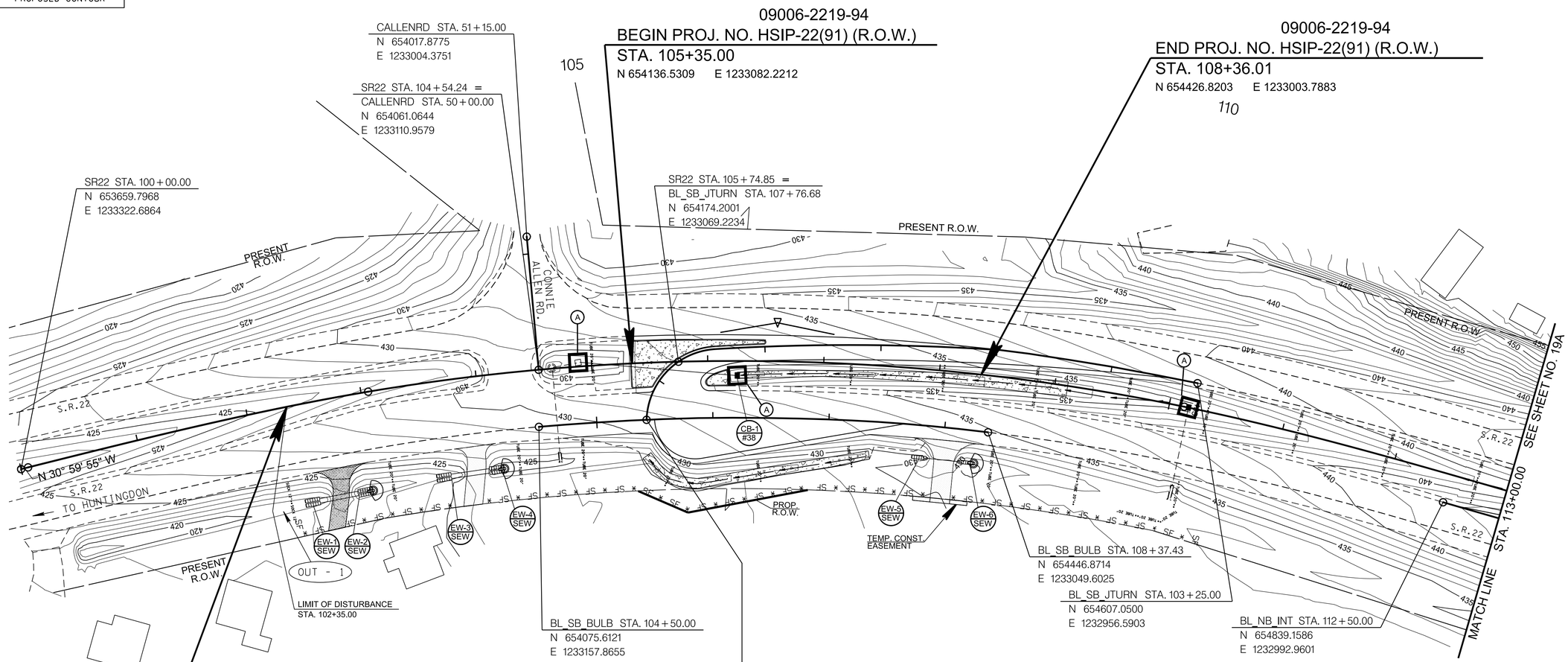
AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS		
OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.55 AC	3.12%
OUT-2	0.30 AC	2.77%
OUT-3	2.15 AC	2.06%
OUT-4	2.30 AC	0.82%
OUT-5	0.39 AC	3.31%

NOTES:
1. THE DISTURBED AREA WITHIN THE R.O.W. IS LIMITED TO 15 FEET BEYOND THE SLOPE LIMITS.
2. USE J-HOOKS WHERE SILT FENCE CROSSES CONTOURS.
3. TEMPORARY CONSTRUCTION EXIT TO BE LOCATED BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	19
P.I.H.	2026	HSIP-22(91)	19
PS&E	2026	HSIP-22(91)	20



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
EW-3	SEW	18"	12' - 8"	103+67.46	80.88'	103+67.49	84.72'	422.71
EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
EW-7	UEW	18"	12' - 8"	118+77.44	85.34'	-	-	441.33
EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
CB-1	#38	32"X32"	106+25.50	12.48	427.60		430.75
CB-2	#38	32"X32"	118+77.43	12.23	442.24	-	447.24
CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE II
PROPOSED
CONTOURS

SEALED BY



09/01/2026

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

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SCALE: 1"=50'

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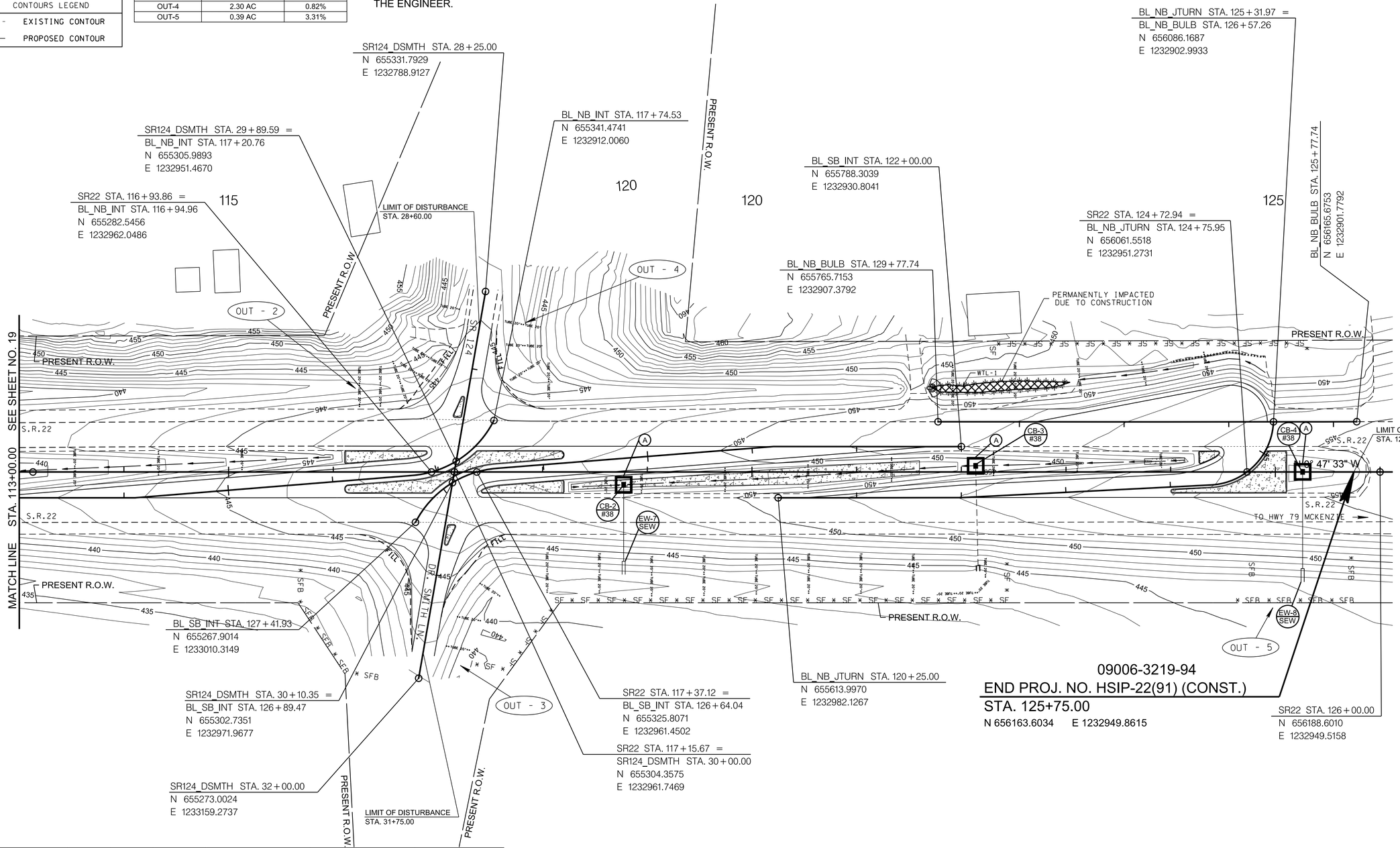
AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS		
OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.55 AC	3.12%
OUT-2	0.30 AC	2.77%
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NOTES:
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	19A
P.I.H.	2026	HSIP-22(91)	19A
PS&E	2026	HSIP-22(91)	20A



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
EW-2	SEW	18"	12' - 8"	102+82.54	82.89'	102+82.59	86.72'	421.17
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EW-4	SEW	18"	12' - 8"	104+02.23	80.29'	104+02.34	84.13'	423.84
EW-5	SEW	18"	12' - 8"	107+95.17	76.37'	-	-	429.76
EW-6	SEW	18"	12' - 8"	108+24.45	76.65'	-	-	430.16
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EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
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CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE II
PROPOSED
CONTOURS

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09/01/2026

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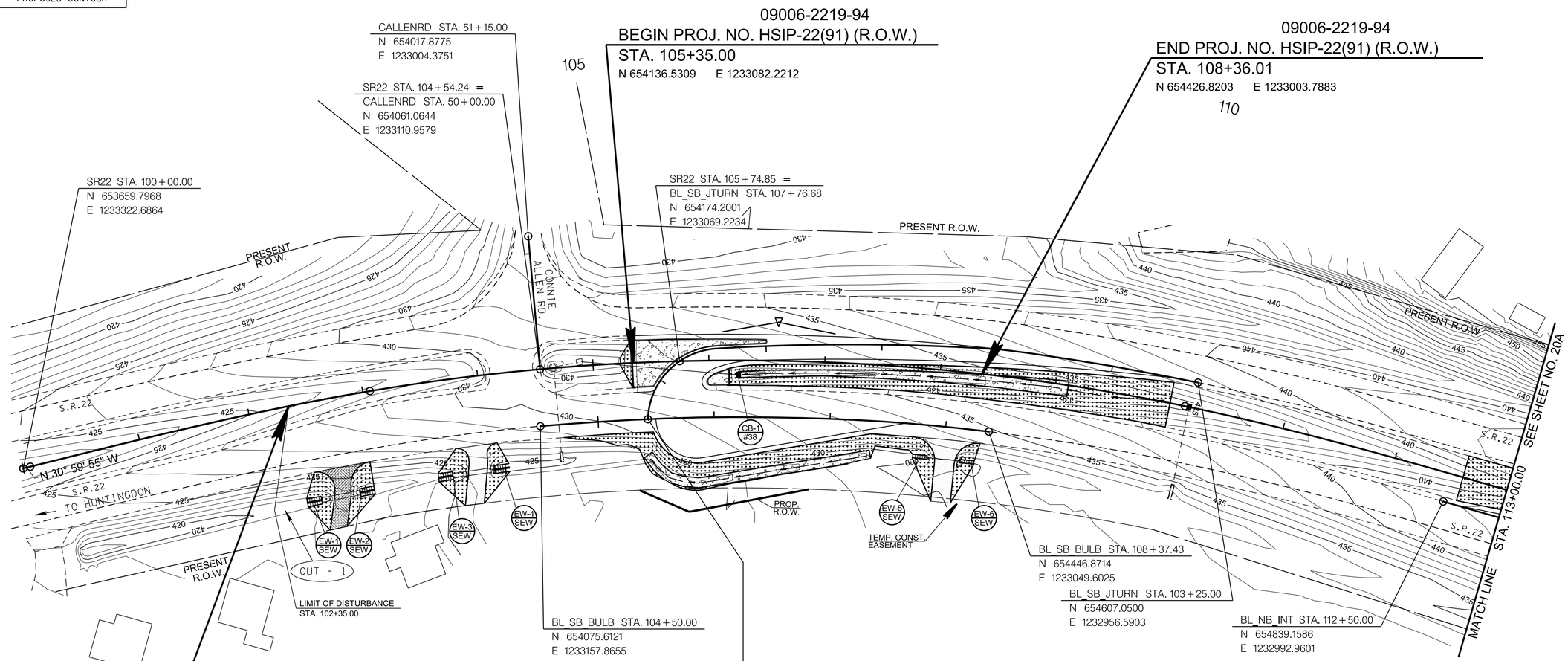
AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS		
OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.55 AC	3.12%
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NOTES:
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	20
P.I.H.	2026	HSIP-22(91)	20
PS&E	2026	HSIP-22(91)	21



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
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LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
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CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE III
PROPOSED CONTOURS
FINAL STABILIZATION

SEALED BY

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09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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AREA PATTERNS
CONSTRUCTION EASEMENT
SOD STABILIZATION

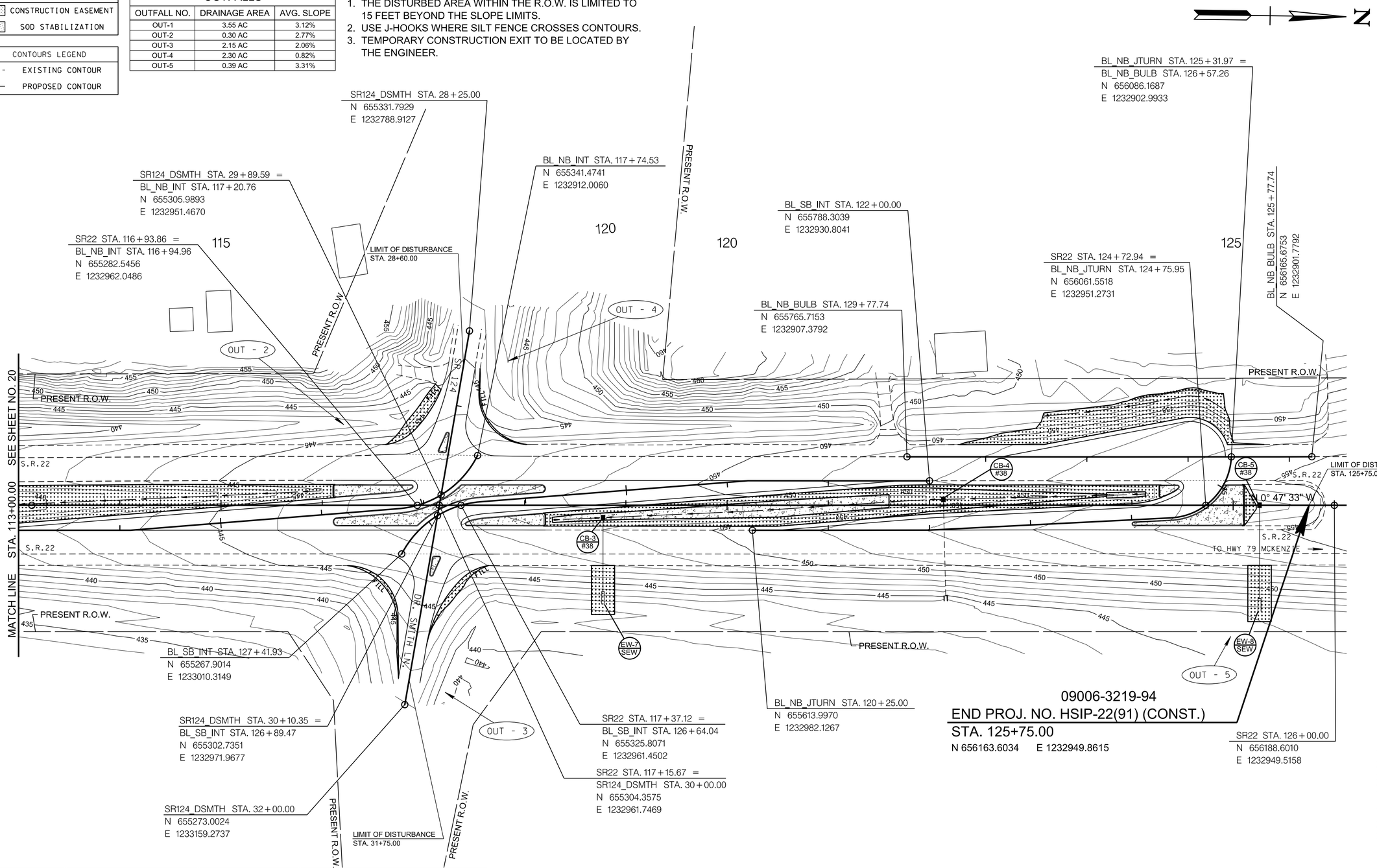
CONTOURS LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR

OUTFALLS

OUTFALL NO.	DRAINAGE AREA	AVG. SLOPE
OUT-1	3.55 AC	3.12%
OUT-2	0.30 AC	2.77%
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NOTES:
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2. USE J-HOOKS WHERE SILT FENCE CROSSES CONTOURS.
3. TEMPORARY CONSTRUCTION EXIT TO BE LOCATED BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	20A
P.I.H.	2026	HSIP-22(91)	20A
PS&E	2026	HSIP-22(91)	21A



CODE	TYPE	SIZE	LENGTH	INVERT - 1		INVERT - 2		ELEVATION
				STATION	OFFSET	STATION	OFFSET	
EW-1	SEW	18"	12' - 8"	102+47.41	83.05'	102+47.40	86.89'	420.64
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EW-8	UEW	18"	12' - 8"	125+26.07	92.36'	-	-	446.16

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.02 ACRE
	VOLUME OF PERMANENT IMPACT = 32 C.Y.

CODE	TYPE	SIZE	STATION	OFFSET	INVERT - 1	INVERT - 2	TOP
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CB-3	#38	32"X32"	122+13.71	-5.83	446.37	-	449.10
CB-4	#38	32"X32"	125+26.07	0.14	448.47	-	452.34

STAGE III
PROPOSED CONTOURS
FINAL STABILIZATION

SEALED BY

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AGRICULTURE
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NO. 124109
STATE OF TENNESSEE

09/01/2026

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DEPARTMENT OF TRANSPORTATION

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STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

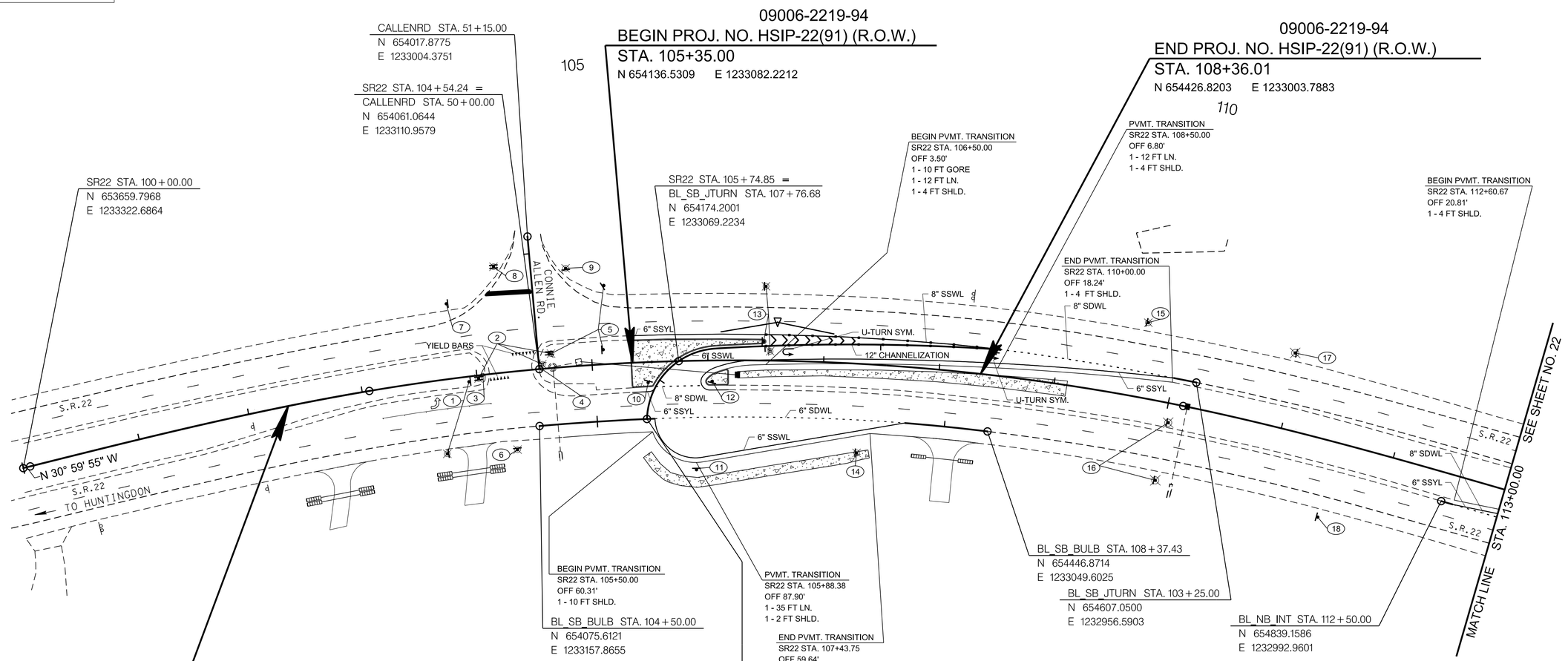
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MONO-DIRECTIONAL MARKER (CLEAR)
BI-DIRECTIONAL MARKER (2-COLOR)

DSYL	DOUBLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SDWL	SINGLE DOTTED WHITE LINE
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE

SIGNING LEGEND
NEW PROPOSED SIGN
EXIST. SIGN TO BE REMOVED
EXIST. SIGN TO BE REMOVED AND REPLACED

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	11
FUNCT.	2024	HSIP-22(91)	21
P.I.H.	2026	HSIP-22(91)	21
PS&E	2026	HSIP-22(91)	22



SEALED BY

ELIZABETH G. DAVIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 134199
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

PAVEMENT MARKINGS ALONG S.R. 22 AND INTERSECTING ROADS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLAN SHEETS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED. ONLY DAMAGED PAVEMENT MARKINGS SHOULD BE REPLACED. EXISTING PAVEMENT MARKINGS THAT ARE TO BE REPLACED SHALL BE REMOVED AND THE AREA CLEARED PRIOR TO INSTALLING NEW PAVEMENT MARKINGS.

A MINIMUM OF 2' RED RETROREFLECTIVE STRIPS SHALL BE INSTALLED ALONG ALL PROPOSED STOP, YIELD, WRONG WAY AND DO NOT ENTER SIGN SUPPORTS.

SEE SHEET 24 & 25 FOR ADDITIONAL PROPOSED SIGNING DETAILS

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MONO-DIRECTIONAL MARKER (CLEAR)
▣

BI-DIRECTIONAL MARKER (2-COLOR)
▣

DSYL	DOUBLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SDWL	SINGLE DOTTED WHITE LINE
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE

SIGNING LEGEND
NEW PROPOSED SIGN
EXIST. SIGN TO BE REMOVED
EXIST. SIGN TO BE REMOVED AND REPLACED

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	12
FUNCT.	2024	HSIP-22(91)	22
P.I.H.	2026	HSIP-22(91)	22
PS&E	2026	HSIP-22(91)	23

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

PVMT. TRANSITION
SR22 STA. 114+10.67
OFF 8.67'
1 - 12 FT LN.
1 - 4 FT SHLD.

END 4' - 10' SHOULDER
SR22 STA. 116+57.89
OFF 60.03'

BEGIN 4' - 10' SHOULDER
SR124_DSMTH STA. 28+60.00
OFF 14.79'

BEGIN 5' - 12' SHOULDER
SR124_DSMTH STA. 28+60.00
OFF 16.65'

END 5' - 12' SHOULDER
SR22 STA. 118+07.12
OFF 60.21'

BEGIN PVMT. TRANSITION
SR22 STA. 118+20.67
OFF 7.44'
1 - 16 FT GORE
1 - 12 FT LN.
1 - 4 FT LN.

PVMT. TRANSITION
SR22 STA. 122+00.00
OFF 8.52'
1 - 12 FT LN.
1 - 4 FT SHLD.

PVMT. TRANSITION
SR22 STA. 120+20.67
OFF 8.31'
1 - 12 FT LN.
1 - 4 FT SHLD.

END PVMT. TRANSITION
SR22 STA. 121+70.67
OFF 19.87'
1 - 4 FT SHLD.

BEGIN PVMT. TRANSITION
SR22 STA. 123+12.90
OFF 60.06'
1 - 10 FT SHLD.

END PVMT. TRANSITION
SR22 STA. 124+94.44
OFF 59.96'
1 - 10 FT SHLD.

PVMT. TRANSITION
SR22 STA. 124+57.35
OFF 86.90'
1 - 35 FT LN.
1 - 2 FT SHLD.

RIGHT TURN SYM.
8" SSWL
6" SSWL
STOP BAR
12" CHANNELIZATION
6" SSYL
6" SSWL
8" SSWL
LEFT TURN SYM.
8" SDWL
6" SDWL
U-TURN SYM.
6" DSYL
DR. J SMITH LN.
RIGHT TURN SYM.
BEGIN 11' - 0' SHOULDER
SR22 STA. 117+69.27
OFF 59.53'
S.R.22
SR 127
SEE SHEET NO. 21
MATCH LINE
STA. 113+00.00
N 0° 47' 33" W
TO HWY 79 MCKENZIE

END PVMT. TRANSITION
SR22 STA. 116+10.67
OFF 7.46'
1 - 16 FT GORE
1 - 12 FT LN.
1 - 4 FT LN.

BEGIN 12' - 0' SHOULDER
SR22 STA. 116+20.12
OFF 59.63'

END 11' - 0' SHOULDER
SR124_DSMTH STA. 31+40.00
OFF 11.16'

END 12' - 0' SHOULDER
SR124_DSMTH STA. 31+75.00
OFF 10.63'

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

BEGIN PVMT. TRANSITION
SR22 STA. 120+50.00
OFF 20.70'
1 - 4 FT LN.

END PVMT. TRANSITION
SR22 STA. 124+00.00
OFF 1.63'
1 - 10 FT GORE
1 - 12 FT LN.
1 - 4 FT SHLD.

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158

PAVEMENT MARKINGS ALONG S.R. 22 AND INTERSECTING ROADS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLAN SHEETS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED. ONLY DAMAGED PAVEMENT MARKINGS SHOULD BE REPLACED. EXISTING PAVEMENT MARKINGS THAT ARE TO BE REPLACED SHALL BE REMOVED AND THE AREA CLEARED PRIOR TO INSTALLING NEW PAVEMENT MARKINGS.

A MINIMUM OF 2' RED RETROREFLECTIVE STRIPS SHALL BE INSTALLED ALONG ALL PROPOSED STOP, YIELD, WRONG WAY AND DO NOT ENTER SIGN SUPPORTS.

SEE SHEET 24 & 25 FOR ADDITIONAL PROPOSED SIGNING DETAILS

SEALED BY

ELIZABETH G. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	23
P.I.H.	2026	HSIP-22(91)	23
PS&E	2026	HSIP-22(91)	24

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	COPY RADIUS	COPY BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
1 5 12 21 33 47	DO NOT ENTER R5-1	21 22	36"	36"									WHITE (REF.)	WHITE (REF) RED (REF)	0.08"	P6	H = 15'-0" H = 14'-6" H = 13'-6" H = 14'-6" H = 14'-8" H = 13'-6"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
2	ONE WAY R6-1L; ONE WAY R6-1R YIELD R1-2	21	48" 48" x 48"	18" 48"									BLACK RED (REF)	WHITE (REF) BLACK WHITE (REF) RED (REF)	0.10" 0.10"	P6	H = 15'-9"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
3 4		21																			7'-00"	TO BE INSTALLED AT MEDIAN CROSS-OVER LOCATIONS AS DIRECTED IN STANDARD T-S-11
6 9 11 24 25 30 48	ONE WAY R6-1L	21 22	48"	18"									BLACK	WHITE (REF) BLACK	0.10"	P6	H = 13'-2" H = 12'-7" H = 13'-6" H = 12'-0" H = 12'-0" H = 13'-6"				7'-00"	SIGN NUMBER 24 INCLUDES REMOVAL OF STREET NAME SIGN. SIGNS 25 & 30 INCLUDE REMOVAL OF STOP AND DIVIDED HIGHWAY SIGNS.
7 27 28	BIKE ROUTE D11-1	21 22	24"	18"									WHITE (REF)	WHITE (REF) GREEN (REF)	0.08"	P6	H = 13'-0" H = 13'-2" H = 13'-0"				7'-00"	
8	ONE WAY R6-1R; ONE WAY R6-1L STOP R1-1 DIVIDED HIGHWAY R6-3A	21	48" 36" 30"	18" 36" 24"									BLACK WHITE (REF) BLACK	WHITE (REF) BLACK RED (REF) WHITE (REF) BLACK	0.10" 0.08" 0.08"		H = 18'-6"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
10 49	YIELD R1-2 R3-1	21 22	48" x 48" 36"	48" 36"									RED (REF) RED (REF) BLACK	WHITE (REF) RED (REF) WHITE (REF) BLACK (REF)	0.10" 0.08"	P6	H = 17'-3" H = 17'-3"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
13 20 43 46	WRONG WAY R5-1A	21 22	42"	30"									WHITE (REF)	WHITE (REF) RED (REF)	0.10"	P6	H = 14'-2" H = 14'-2" H = 14'-2" H = 14'-0"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
14	JCT M2-1 124 TN-6B	21	21" 30"	15" 24"									BLACK WHITE (REF) BLACK	WHITE (REF) BLACK	0.08" 0.08"		H = 15'-6"				7'-00"	
15	W2-2R 50 MPH W13-1P	21	30" 18"	30" 18"									BLACK BLACK	YELLOW (REF) BLACK YELLOW (REF) BLACK	0.08" 0.08"		H = 16'-3"				7'-00"	
16 45	W2-1 55 MPH W13-1P	21 22	30" 18"	30" 18"									BLACK BLACK	YELLOW (REF) BLACK YELLOW (REF) BLACK	0.08" 0.08"	P6	H = 14'-9" H = 16'-3"				7'-00"	
17	SPEED LIMIT 65 R2-1	21	30"	36"									BLACK	WHITE (REF) BLACK	0.08"		H = 14'-8"				7'-00"	

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ELIZABETH G. DAVID REGISTERED ENGINEER AGRICULTURE & COMMERCE NO. 124109 STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	24
P.I.H.	2026	HSIP-22(91)	24
PS&E	2026	HSIP-22(91)	25

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
18	WEST M3-4	21	24"	12"									BLACK	WHITE (REF)	0.08"		H = 15'-3"					
	124 TN-6B		30"	24"									WHITE (REF) BLACK	BLACK	0.08"	P6					7'-00"	SIGN NUMBER 23 EXISTING SIGN REMOVAL ONLY
23	M6-1L	22	21"	15"									BLACK	WHITE (REF) BLACK	0.08"							
19	SOUTH M3-3	22	24"	12"									BLACK	WHITE (REF)	0.08"		H = 14'-11"				7'-00"	
	22 Tennessee TN-6C		30"	24"									BLACK	WHITE (REF) BLACK	0.08"							
22	TN-68B	22																			7'-00"	ORIGINAL SIGNAGE AND POST TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER
26	R3-5R ONLY	22	30"	36"									BLACK	WHITE (REF) BLACK	0.08"	P6	H = 14'-1"				7'-00"	
31																	H = 14'-1"					
29	N ↔ S TN-39	22	30"	15"									BLACK	WHITE (REF)	0.08"							
	22 Tennessee TN-6C		30"	24"									BLACK	WHITE (REF) BLACK	0.08"	P6	H = 17'-3"				7'-00"	EXISTING CRIME STOPPERS SIGN TO BE REMOVED FROM ORIGINAL POST AND REMOUNTED ON THE NEW POST AT THE PROPOSED LOCATION
	N/A																					
32	ONE WAY R6-1R ONE WAY R6-1L	22																			7'-00"	EXISTING SIGN REMOVAL ONLY
34	R3-4	22	36"	36"									WHITE (REF)	RED (REF) BLACK (REF)	0.08"	P6	H = 13'-6"				7'-00"	
41																	H = 13'-6"					
35	ONE WAY R6-1R	22	48"	18"									BLACK	WHITE (REF) BLACK	0.10"	P6	H = 15'-3"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
40	DO NOT ENTER R5-1 R3-1		36"	36"									WHITE (REF) RED (REF) BLACK	WHITE (REF) RED (REF) BLACK (REF)	0.08"		H = 15'-3"					
36	STOP R1-1	22	36"	36"									WHITE (REF)	RED (REF)	0.08"	P6	H = 14'-6"				7'-00"	SIGN TO BE INSTALLED WITH ONE SIDE OF POST DELINEATION ENHANCEMENT
38																	H = 14'-6"					
37	ONE WAY R6-1L	22	48"	18"																	7'-00"	EXISTING SIGN REMOVAL ONLY
39	YIELD R1-2		48" x 48"	48"																		
42	WEST M3-4	22	24"	12"									BLACK	WHITE (REF)	0.08"	P6	H = 16'-5"				7'-00"	
	124 TN-6B		30"	24"									WHITE (REF) BLACK	WHITE (REF)	0.08"							
	M6-1R		21"	15"									BLACK	WHITE (REF) BLACK	0.08"							
44	NORTH M3-1	22	24"	12"									BLACK	WHITE (REF)	0.08"		H = 14'-9"				7'-00"	
	22 Tennessee TN-6D		30"	24"									BLACK	WHITE (REF) BLACK	0.08"							

SEALED BY

ELIZABETH C. DAVID REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 124129 STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	13
FUNCT.	2024	HSIP-22(91)	25
P.I.H.	2026	HSIP-22(91)	25
PS&E	2026	HSIP-22(91)	26

℄
S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

450
440
430
420
410

EXISTING GRADE

FG EL. 429.94
-0.056
4:1
EL.428.17 OFFSET 64.97
EL.428.98 OFFSET 60.37

PRES. R.O.W. OFFSET 110.00

CUT 1
FILL 2

CUT 1
FILL 3
105+00.00

EXISTING GRADE

CUT 0
FILL 0

BEGIN CONSTRUCTION N.B.
BEGIN SHOULDER SLOPE TRANSITION
S.R. 22 - STA. 104+70.00
MATCH EXISTING

CUT 1
FILL 0
104+70.00

EXISTING GRADE

CUT 0
FILL 0

CUT 0
FILL 0
104+50.00

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

S.R. 22

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

BEGIN STA. 104+50.00
END STA. 104+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	14
FUNCT.	2024	HSIP-22(91)	26
P.I.H.	2026	HSIP-22(91)	26
PS&E	2026	HSIP-22(91)	27

℄ S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

450 440 430 420 410

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 430.42

-0.025

-0.025

4:1

4:1

EL 426.58 OFFSET 88.19

EL 428.26 OFFSET 74.50

CUT 3 FILL 2

CUT 17 FILL 5

105+33.48

END SHOULDER SLOPE TRANSITION
BEGIN N.B./S.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 105+33.48

PRES. R.O.W. OFFSET -119.24

PRES. R.O.W. OFFSET 110.00

EXISTING GRADE

FG EL. 430.30

-0.040

4:1

EL 427.36 OFFSET 70.22

EL 429.36 OFFSET 60.28

CUT 1 FILL 4

CUT 1 FILL 6

105+25.00

S.R. 22

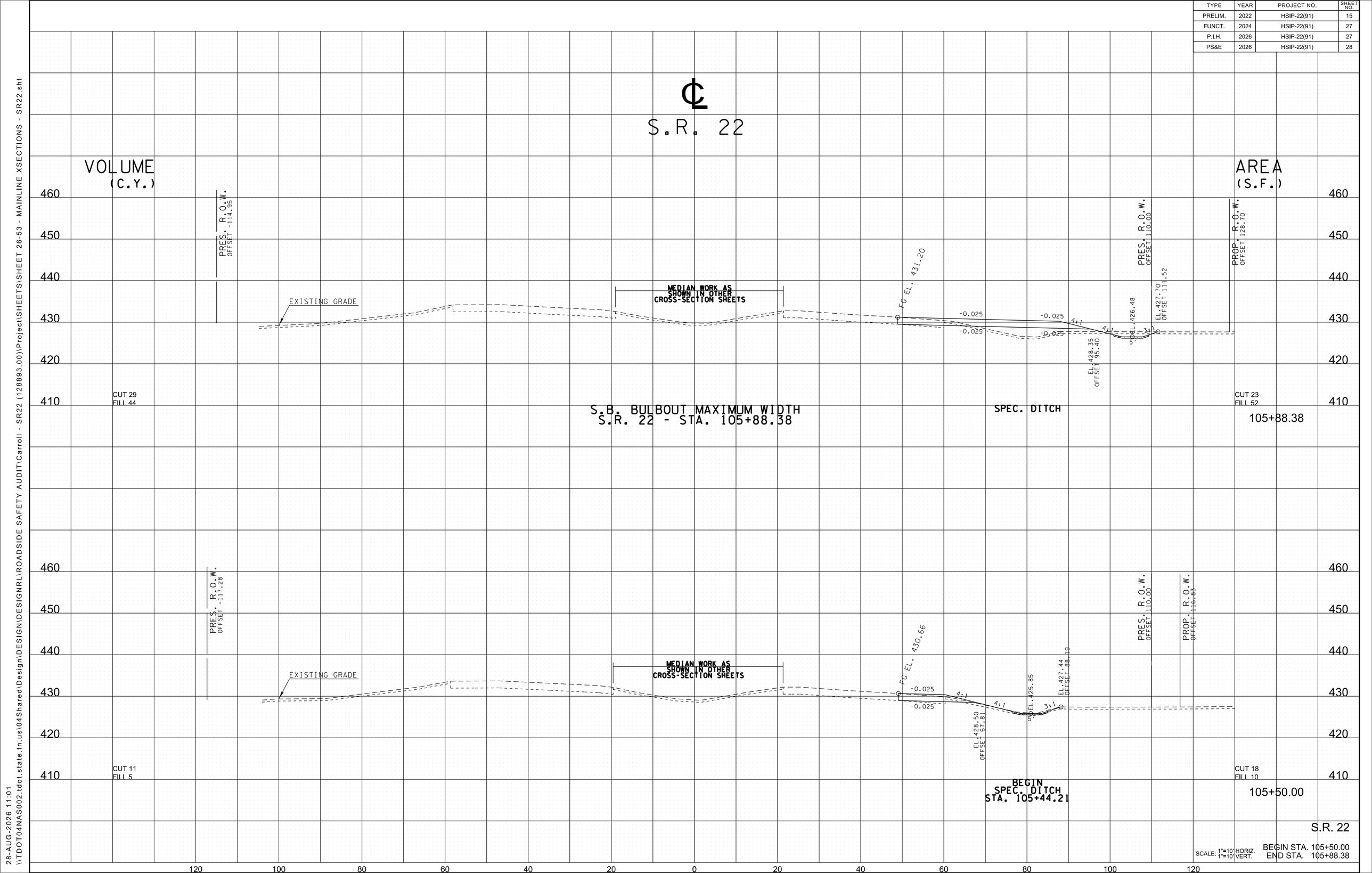
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 105+00.00
END STA. 105+49.99

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	15
FUNCT.	2024	HSIP-22(91)	27
P.I.H.	2026	HSIP-22(91)	27
PS&E	2026	HSIP-22(91)	28



S.R. 22

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

BEGIN STA. 105+50.00
END STA. 105+88.38

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	16
FUNCT.	2024	HSIP-22(91)	28
P.I.H.	2026	HSIP-22(91)	28
PS&E	2026	HSIP-22(91)	29

℄ S.R. 22

VOLUME (C.Y.)

460
450
440
430
420
410

PRES. R.O.W. OFFSET -112.93

EXISTING GRADE

CUT 36
FILL 90

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 432.03

-0.025 -0.025 -0.025 -0.025

4:1 4:1 3:1

EL. 427.50

EL. 428.20 OFFSET 100.74

PRES. R.O.W. OFFSET 110.00

PROP. R.O.W. OFFSET 118.01

EL. 429.41 OFFSET 86.02

SPEC. DITCH

CUT 18
FILL 44

106+50.00

AREA (S.F.)

460
450
440
430
420
410

PRES. R.O.W. OFFSET -114.41

EXISTING GRADE

CUT 9
FILL 23

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 431.36

-0.025 -0.025 -0.025 -0.025

4:1 4:1 3:1

EL. 426.67

EL. 427.74 OFFSET 105.81

PRES. R.O.W. OFFSET 110.00

PROP. R.O.W. OFFSET 126.84

EL. 428.55 OFFSET 94.13

SPEC. DITCH

CUT 21
FILL 53

106+00.00

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

S.R. 22

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

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	17
FUNCT.	2024	HSIP-22(91)	29
P.I.H.	2026	HSIP-22(91)	29
PS&E	2026	HSIP-22(91)	30

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S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

460 450 440 430 420 410

PRES. R.O.W. OFFSET -113.91

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 433.35

-0.025 -0.025

4:1

4:1

EL. 430.49 OFFSET 69.98

EL. 431.20 OFFSET 67.15

PRES. R.O.W. OFFSET 110.00

CUT 26
FILL 25

CUT 15
FILL 3

S.B. BULBOUT SHOULDER TIE
S.R. 22 - STA. 107+43.75

SPEC. DITCH

107+43.75

460 450 440 430 420 410

PRES. R.O.W. OFFSET -112.84

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 432.77

-0.025 -0.025 -0.025 -0.025

4:1

4:1

EL. 428.33 OFFSET 91.57

EL. 428.92 OFFSET 91.57

EL. 430.38 OFFSET 76.56

PRES. R.O.W. OFFSET 110.00

CUT 32
FILL 67

CUT 17
FILL 28

SPEC. DITCH

107+00.00

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

S.R. 22

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

BEGIN STA. 107+00.00
END STA. 107+43.75

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	18
FUNCT.	2024	HSIP-22(91)	30
P.I.H.	2026	HSIP-22(91)	30
PS&E	2026	HSIP-22(91)	31

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

460
450
440
430
420
410

PRES. R.O.W.
OFFSET -115.25

EXISTING GRADE

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

FG EL. 433.77

-0.025

4:1

-0.025

EL.431.62
FFSET 67.19

EL.430.61
OFFSET 71.24

PRES. R.O.W.
OFFSET 110.00

CUT 12
FILL 3

CUT 16
FILL 4

END N.B. FULL-DEPTH CONSTRUCTION
BEGIN SHOULDER SLOPE TRANSITION
S.R. 22 - STA. 107+73.82

107+73.82

PRES. R.O.W.
OFFSET -114.4

EXISTING GRADE

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

FG EL. 433.44

-0.025-0.025

4:1

-0.025-0.025

EL.431.29
FFSET 67.11

EL.430.57
OFFSET 69.99

PRES. R.O.W.
OFFSET 110.00

CUT 3
FILL 1

CUT 15
FILL 3

END
SPEC. DITCH
STA. 107+43.92

107+50.00

S.R. 22

BEGIN STA. 107+50.00
END STA. 107+73.82

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

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	19
FUNCT.	2024	HSIP-22(91)	31
P.I.H.	2026	HSIP-22(91)	31
PS&E	2026	HSIP-22(91)	32

℄ S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

460 450 440 430 420 410

PRES. R.O.W. OFFSET -119.99

PRES. R.O.W. OFFSET 110.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 1
FILL 0

END SHOULDER SLOPE TRANSITION
S.R. 22 - STA. 108+40.00
MATCH EXISTING

CUT 1
FILL 0

108+40.00

PRES. R.O.W. OFFSET -116.83

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

FG EL. 434.12

-0.044

-0.044

EL. 433.10 OFFSET 61.66

EL. 433.17 OFFSET 59.51

PRES. R.O.W. OFFSET 110.00

CUT 8
FILL 2

CUT 1
FILL 0

108+00.00

S.R. 22

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

BEGIN STA. 108+00.00
END STA. 108+40.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	20
FUNCT.	2024	HSIP-22(91)	32
P.I.H.	2026	HSIP-22(91)	32
PS&E	2026	HSIP-22(91)	33

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

460
450
440
430
420

PRES. R.O.W.
OFFSET -123.84

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 110.00

CUT 0
FILL 0

109+00.00

PRES. R.O.W.
OFFSET -120.92

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 110.00

CUT 0
FILL 0

108+50.00

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

S.R. 22

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

BEGIN STA. 108+50.00
END STA. 109+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	21
FUNCT.	2024	HSIP-22(91)	33
P.I.H.	2026	HSIP-22(91)	33
PS&E	2026	HSIP-22(91)	34

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S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

470
460
450
440
430
420

PRES. R.O.W. OFFSET 110.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

END S.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 110+00.00
MATCH EXISTING

CUT 0
FILL 0

110+00.00

PRES. R.O.W. OFFSET -127.61

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W. OFFSET 110.00

CUT 0
FILL 0

CUT 0
FILL 0

109+50.00

S.R. 22

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

BEGIN STA. 109+50.00
END STA. 110+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	22
FUNCT.	2024	HSIP-22(91)	34
P.I.H.	2026	HSIP-22(91)	34
PS&E	2026	HSIP-22(91)	35

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

470
460
450
440
430
420

EXISTING GRADE

PRES. R.O.W.
OFFSET 117.32

CUT 0
FILL 0

111+00.00

EXISTING GRADE

PRES. R.O.W.
OFFSET 113.79

CUT 0
FILL 0

110+50.00

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

S.R. 22

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

BEGIN STA. 110+50.00
END STA. 111+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	23
FUNCT.	2024	HSIP-22(91)	35
P.I.H.	2026	HSIP-22(91)	35
PS&E	2026	HSIP-22(91)	36

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

470
460
450
440
430
420

EXISTING GRADE

PRES. R.O.W.
OFFSET 121.99

CUT 0
FILL 0

CUT 0
FILL 0

112+00.00

EXISTING GRADE

PRES. R.O.W.
OFFSET 119.98

CUT 0
FILL 0

CUT 0
FILL 0

111+50.00

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

S.R. 22

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

BEGIN STA. 111+50.00
END STA. 112+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	24
FUNCT.	2024	HSIP-22(91)	36
P.I.H.	2026	HSIP-22(91)	36
PS&E	2026	HSIP-22(91)	37

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S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

PRES. R.O.W. OFFSET -129.89

PRES. R.O.W. OFFSET 124.81

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

470 460 450 440 430 420

CUT 0
FILL 0

BEGIN N.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 112+60.67
MATCH EXISTING

CUT 0
FILL 0

113+00.00

PRES. R.O.W. OFFSET -129.92

PRES. R.O.W. OFFSET 123.52

EXISTING GRADE

470 460 450 440 430 420

CUT 0
FILL 0

CUT 0
FILL 0

112+50.00

S.R. 22

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

BEGIN STA. 112+50.00
END STA. 113+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	25
FUNCT.	2024	HSIP-22(91)	37
P.I.H.	2026	HSIP-22(91)	37
PS&E	2026	HSIP-22(91)	38

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S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

PRES. R.O.W. OFFSET -129.98

PRES. R.O.W. OFFSET 125.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

470
460
450
440
430
420

CUT 0
FILL 0

114+00.00

PRES. R.O.W. OFFSET -129.94

PRES. R.O.W. OFFSET 125.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

113+50.00

S.R. 22

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

BEGIN STA. 113+50.00
END STA. 114+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	26
FUNCT.	2024	HSIP-22(91)	38
P.I.H.	2026	HSIP-22(91)	38
PS&E	2026	HSIP-22(91)	39

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

470
460
450
440
430
420

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W. OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

115+00.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W. OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

114+50.00

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

S.R. 22

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

BEGIN STA. 114+50.00
END STA. 115+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	27
FUNCT.	2024	HSIP-22(91)	39
P.I.H.	2026	HSIP-22(91)	39
PS&E	2026	HSIP-22(91)	40

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

470
460
450
440
430
420

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

CUT 0
FILL 0

116+00.00

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

115+50.00

S.R. 22

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

BEGIN STA. 115+50.00
END STA. 116+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	28
FUNCT.	2024	HSIP-22(91)	40
P.I.H.	2026	HSIP-22(91)	40
PS&E	2026	HSIP-22(91)	41

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

460
450
440
430

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

CUT 0
FILL 0
117+00.00

460
450
440
430

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

CUT 0
FILL 0
116+50.00

BEGIN S.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 116+10.67
MATCH EXISTING

S.R. 22

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

BEGIN STA. 116+50.00
END STA. 117+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	29
FUNCT.	2024	HSIP-22(91)	41
P.I.H.	2026	HSIP-22(91)	41
PS&E	2026	HSIP-22(91)	42

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

460
450
440
430

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

CUT 0
FILL 0

118+00.00

460
450
440
430

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

CUT 0
FILL 0

CUT 0
FILL 0

117+50.00

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

S.R. 22

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

BEGIN STA. 117+50.00
END STA. 118+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	30
FUNCT.	2024	HSIP-22(91)	42
P.I.H.	2026	HSIP-22(91)	42
PS&E	2026	HSIP-22(91)	43

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

470
460
450
440
430

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

119+00.00

END N.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 118+20.67
MATCH EXISTING

118+50.00

S.R. 22

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

BEGIN STA. 118+50.00
END STA. 119+00.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	31
FUNCT.	2024	HSIP-22(91)	43
P.I.H.	2026	HSIP-22(91)	43
PS&E	2026	HSIP-22(91)	44

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

480
470
460
450
440
430

PRES. R.O.W.
OFFSET -124.46

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

120+00.00

PRES. R.O.W.
OFFSET -124.33

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

119+50.00

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

S.R. 22

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

BEGIN STA. 119+50.00
END STA. 120+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	32
FUNCT.	2024	HSIP-22(91)	44
P.I.H.	2026	HSIP-22(91)	44
PS&E	2026	HSIP-22(91)	45

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S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

480
470
460
450
440
430

PRES. R.O.W.
OFFSET -124.71

EXISTING GRADE

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

121+00.00

PRES. R.O.W.
OFFSET -124.59

EXISTING GRADE

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

120+50.00

BEGIN N.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 120+50.00
MATCH EXISTING

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

S.R. 22

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

BEGIN STA. 120+50.00
END STA. 121+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	33
FUNCT.	2024	HSIP-22(91)	45
P.I.H.	2026	HSIP-22(91)	45
PS&E	2026	HSIP-22(91)	46

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S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

480
470
460
450
440
430

PRES. R.O.W. OFFSET -124.97

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W. OFFSET 125.00

CUT 0
FILL 0

END S.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 121+70.67
MATCH EXISTING

CUT 0
FILL 0

122+00.00

480
470
460
450
440
430

PRES. R.O.W. OFFSET -124.84

EXISTING GRADE

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

PRES. R.O.W. OFFSET 125.00

CUT 0
FILL 0

CUT 0
FILL 0

121+50.00

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

S.R. 22

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

BEGIN STA. 121+50.00
END STA. 122+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	34
FUNCT.	2024	HSIP-22(91)	46
P.I.H.	2026	HSIP-22(91)	46
PS&E	2026	HSIP-22(91)	47

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

480
470
460
450
440
430

PRES. R.O.W.
OFFSET -125.09

EXISTING GRADE

EL 450.16
OFFSET -65.26

4:1

-0.042

FG EL. 451.98

EL 451.17
OFFSET -59.95

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 1
FILL 1

CUT 1
FILL 3

122+50.00

PRES. R.O.W.
OFFSET -125.04

EXISTING GRADE

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 0
FILL 0

CUT 1
FILL 0

122+30.00

BEGIN SHOULDER SLOPE TRANSITION
S.R. 22 - STA. 122+30.00
MATCH EXISTING

S.R. 22

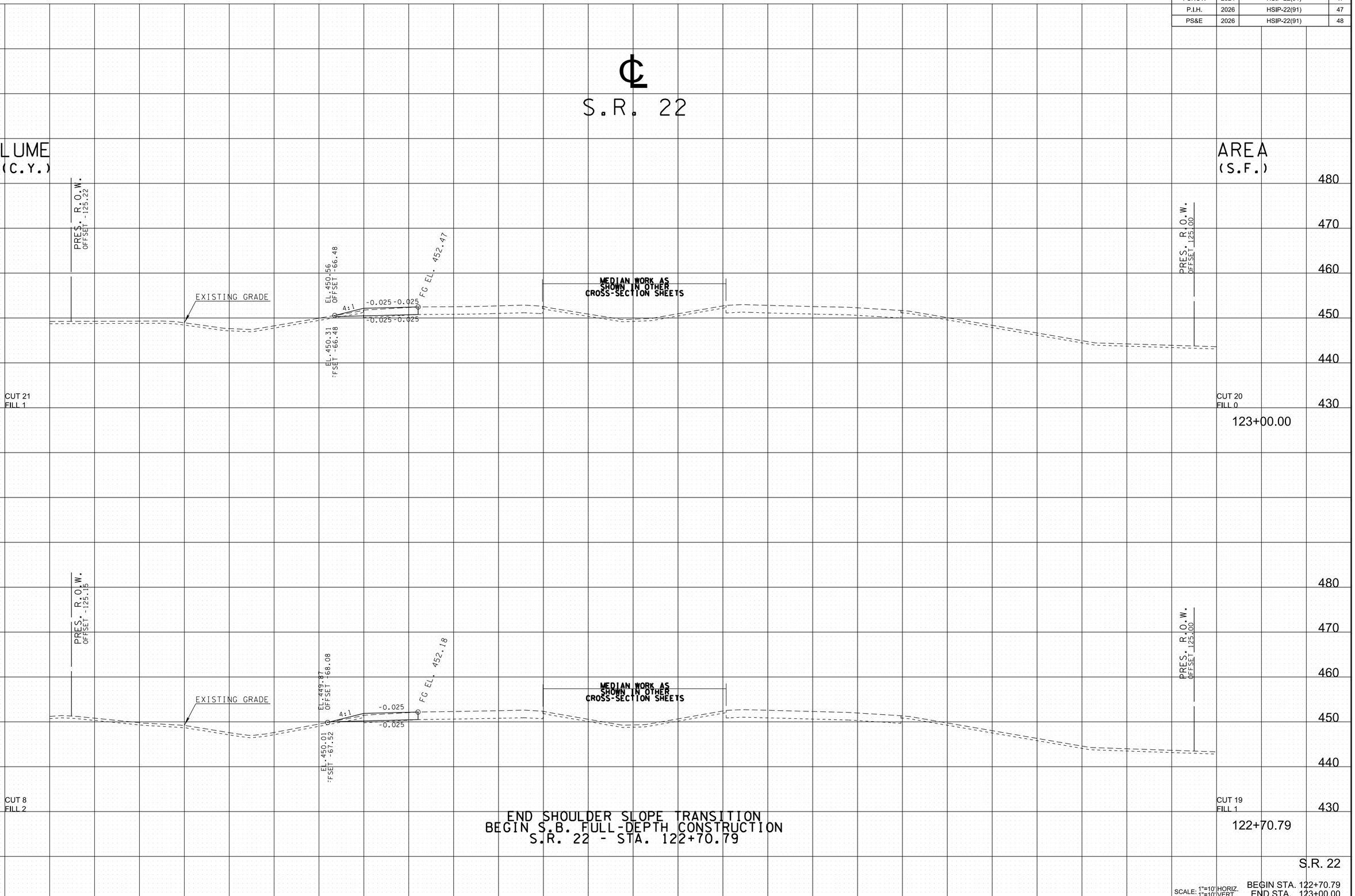
SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 122+30.00
END STA. 122+50.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	35
FUNCT.	2024	HSIP-22(91)	47
P.I.H.	2026	HSIP-22(91)	47
PS&E	2026	HSIP-22(91)	48



END SHOULDER SLOPE TRANSITION
BEGIN S.B. FULL-DEPTH CONSTRUCTION
S.R. 22 - STA. 122+70.79

S.R. 22

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

BEGIN STA. 122+70.79
END STA. 123+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	36
FUNCT.	2024	HSIP-22(91)	48
P.I.H.	2026	HSIP-22(91)	48
PS&E	2026	HSIP-22(91)	49

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)

480
470
460
450
440
430

PRES. R.O.W.
OFFSET -125.35

EXISTING GRADE

EL.447.70
OFFSET -91.39

EL.447.66
OFFSET -91.66

4:1

EL.450.57
OFFSET -74.63

-0.025 -0.025
-0.025 -0.025

FG EL. 452.93

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 27
FILL 13

BEGIN
SPEC. DITCH
STA. 123+12.92

CUT 20
FILL 19

123+50.00

480
470
460
450
440
430

PRES. R.O.W.
OFFSET -125.25

EXISTING GRADE

EL.450.70
OFFSET -66.40

EL.450.44
OFFSET -66.40

4:1

-0.025 -0.025
-0.025 -0.025

FG EL. 452.59

MEDIAN WORK AS
SHOWN IN OTHER
CROSS-SECTION SHEETS

PRES. R.O.W.
OFFSET 125.00

CUT 10
FILL 0

CUT 20
FILL 0

123+12.90

N.B. BULBOUT SHOULDER TIE
S.R. 22 - STA. 123+12.90

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

S.R. 22

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

BEGIN STA. 123+12.90
END STA. 123+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	37
FUNCT.	2024	HSIP-22(91)	49
P.I.H.	2026	HSIP-22(91)	49
PS&E	2026	HSIP-22(91)	50

℄ S.R. 22

VOLUME (C.Y.)

AREA (S.F.)

480
470
460
450
440
430

PRES. R.O.W. OFFSET -125.60

EL.448.72 OFFSET -114.53

PROP BERM

EL.448.13 OFFSET -93.10

4:1

-0.025

EL.450.98 OFFSET -93.10

FG EL. 453.8

MEDIAN WORK AS SHOWN IN OTHER CROSS-SECTION SHEETS

EXISTING GRADE

PRES. R.O.W. OFFSET 125.00

CUT 43
FILL 99

SPEC. DITCH

CUT 24
FILL 67

124+50.00

PRES. R.O.W. OFFSET -125.47

EL.448.97 OFFSET -105.07

EL.447.90

EL.450.77 OFFSET -84.11

FG EL. 453.37

CUT 39
FILL 55

SPEC. DITCH

CUT 22
FILL 40

124+00.00

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

S.R. 22

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

BEGIN STA. 124+00.00
END STA. 124+50.00

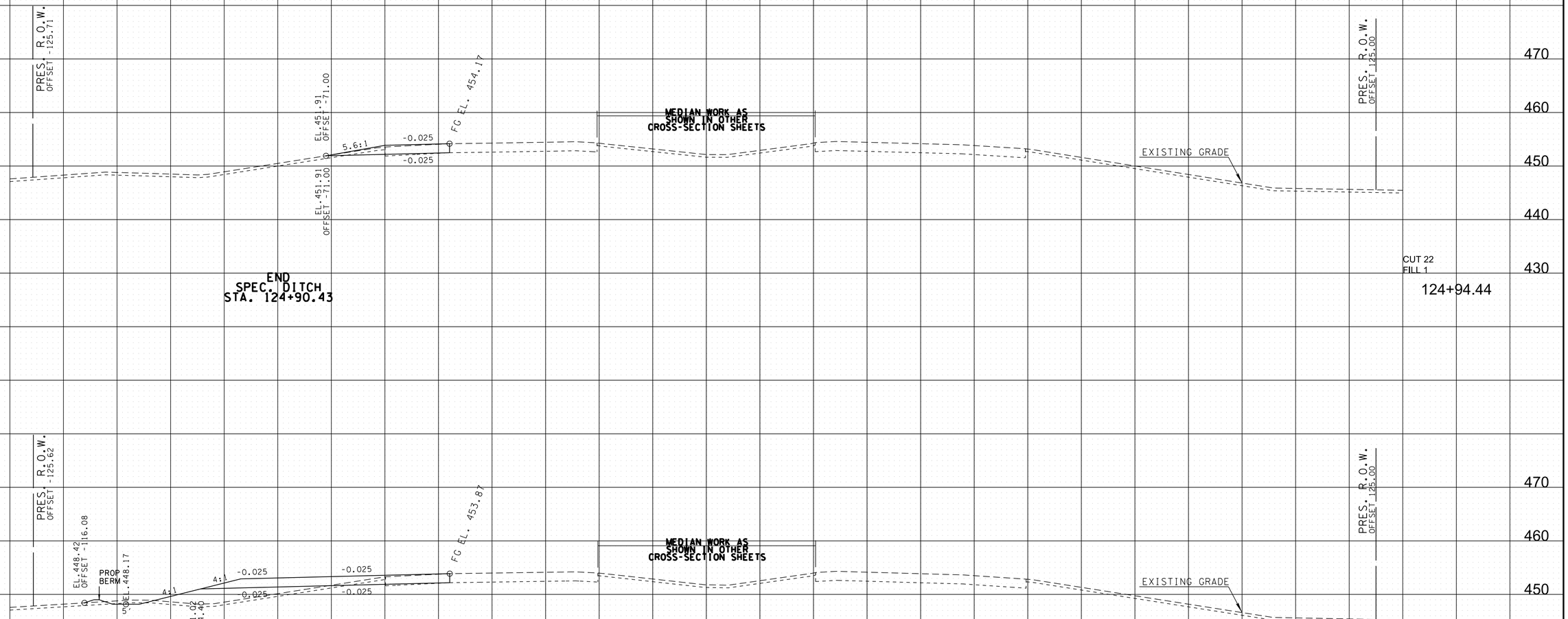
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	38
FUNCT.	2024	HSIP-22(91)	50
P.I.H.	2026	HSIP-22(91)	50
PS&E	2026	HSIP-22(91)	51

℄ S.R. 22

VOLUME (C.Y.)

AREA (S.F.)



S.R. 22

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

BEGIN STA. 124+57.35
END STA. 124+94.44

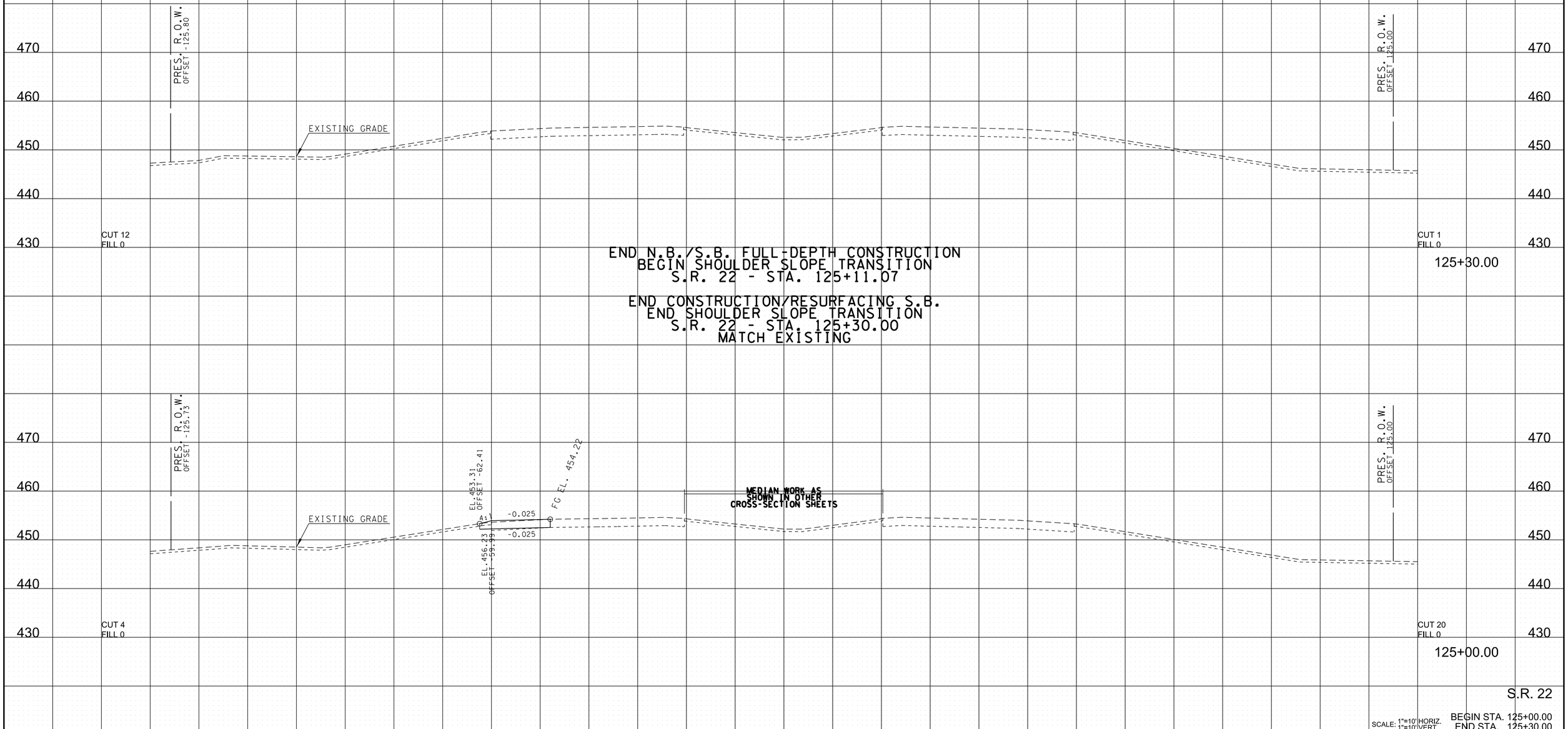
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	51
P.I.H.	2026	HSIP-22(91)	51
PS&E	2026	HSIP-22(91)	52

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)



S.R. 22

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

BEGIN STA. 125+00.00
END STA. 125+30.00

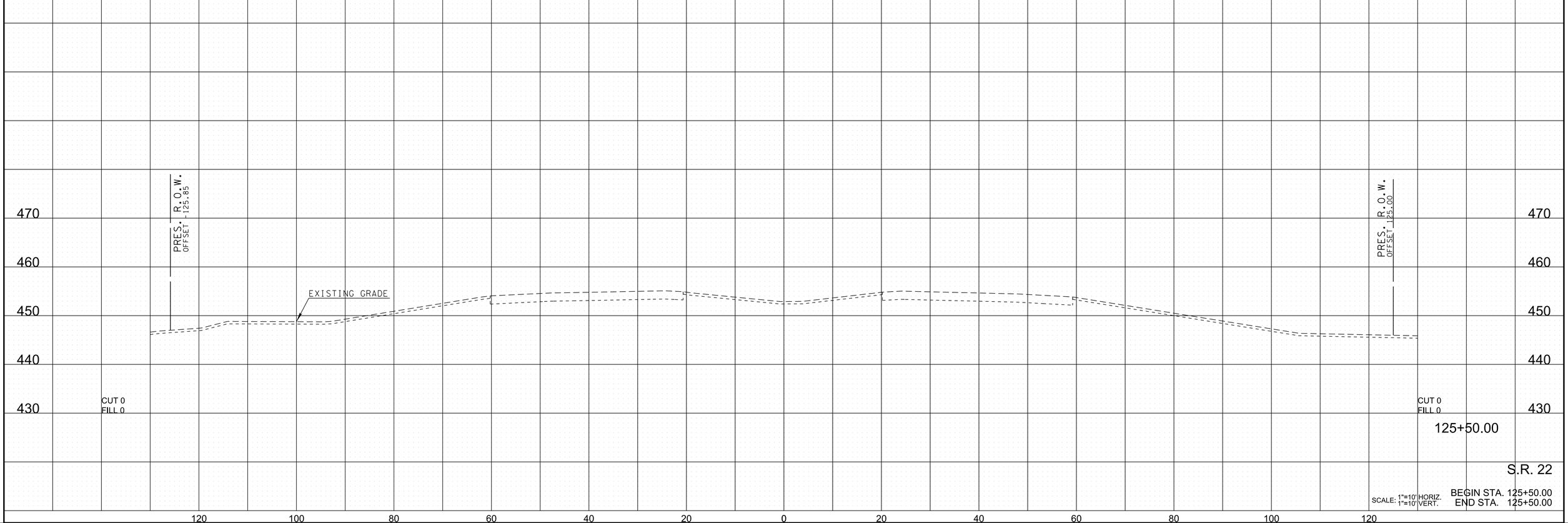
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	52
P.I.H.	2026	HSIP-22(91)	52
PS&E	2026	HSIP-22(91)	53

℄
S.R. 22

VOLUME
(C.Y.)

AREA
(S.F.)



S.R. 22

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

BEGIN STA. 125+50.00
END STA. 125+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	39
FUNCT.	2024	HSIP-22(91)	54
P.I.H.	2026	HSIP-22(91)	54
PS&E	2026	HSIP-22(91)	54

SOUTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)

470
460
450
440
430
420

PRES. R.O.W. OFFSET 110.74

EXISTING GRADE

CUT 0
FILL 0

BEGIN SPEC. DITCH
SB_JTURN - STA. 103+45.23
SR 22 - STA. 110+00.00

BEGIN FULL-DEPTH CONSTRUCTION
SB-JTURN - STA. 103+45+23
S.R. 22 - STA. 110+00.00
MATCH EXISTING

CUT 10
FILL 15
103+45.23

PRES. R.O.W. OFFSET 112.94

EXISTING GRADE

CUT 0
FILL 0

CUT 0
FILL 0
103+25.00

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

JTURN - SOUTHBOUND

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

BEGIN STA. 103+25.00
END STA. 103+45.24

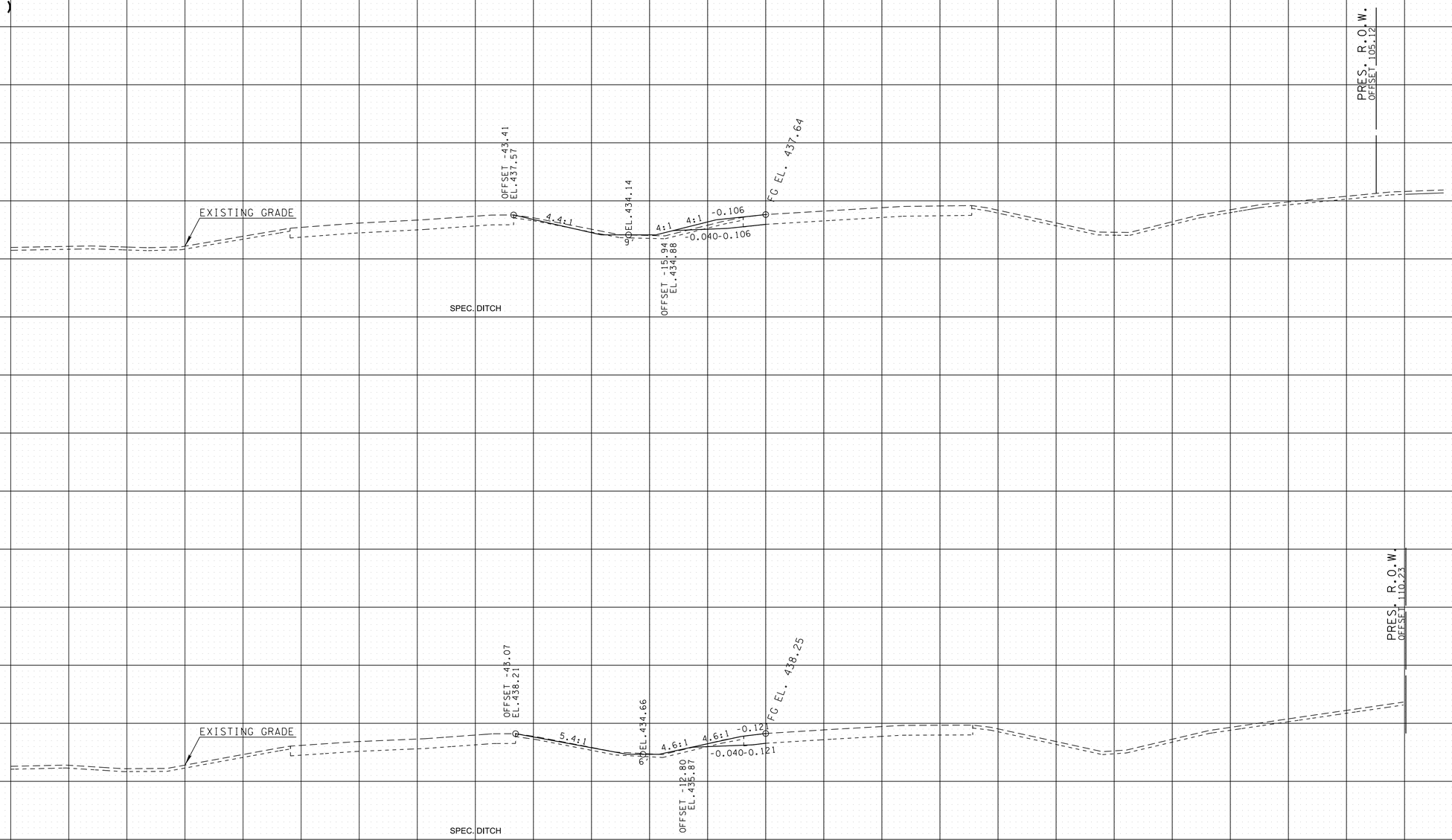
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	40
FUNCT.	2024	HSIP-22(91)	55
P.I.H.	2026	HSIP-22(91)	55
PS&E	2026	HSIP-22(91)	55

SOUTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



JTURN - SOUTHBOUND

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

BEGIN STA. 103+50.00
END STA. 104+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	41
FUNCT.	2024	HSIP-22(91)	56
P.I.H.	2026	HSIP-22(91)	56
PS&E	2026	HSIP-22(91)	56

SOUTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430
420
410

EXISTING GRADE

OFFSET -44.14
EL.436.42

4:1

OFFSET -22.34
EL.433.34

EL. 433.12

4:1 -0.078 -0.078

-0.040 -0.078 -0.078

OFFSET 0.05
EL.434.77

OFFSET 0.05
EL. 436.45

FG EL. 436.45

PRES. R.O.W.
OFFSET 97.76

CUT 22
FILL 21

SPEC. DITCH

CUT 13
FILL 11

BEGIN GORE WIDENING
SB-JTURN - STA. 104+97.81
S.R. 22 - STA. 108+50.00

104+97.81

460
450
440
430
420
410

EXISTING GRADE

OFFSET -43.76
EL.436.99

4:1

OFFSET -19.54
EL.434.02

EL. 433.62

4:1 -0.092 -0.092

-0.040 -0.092 0.092

FG EL. 437.03

PRES. R.O.W.
OFFSET 101.23

CUT 22
FILL 23

SPEC. DITCH

CUT 12
FILL 13

104+50.00

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

JTURN - SOUTHBOUND

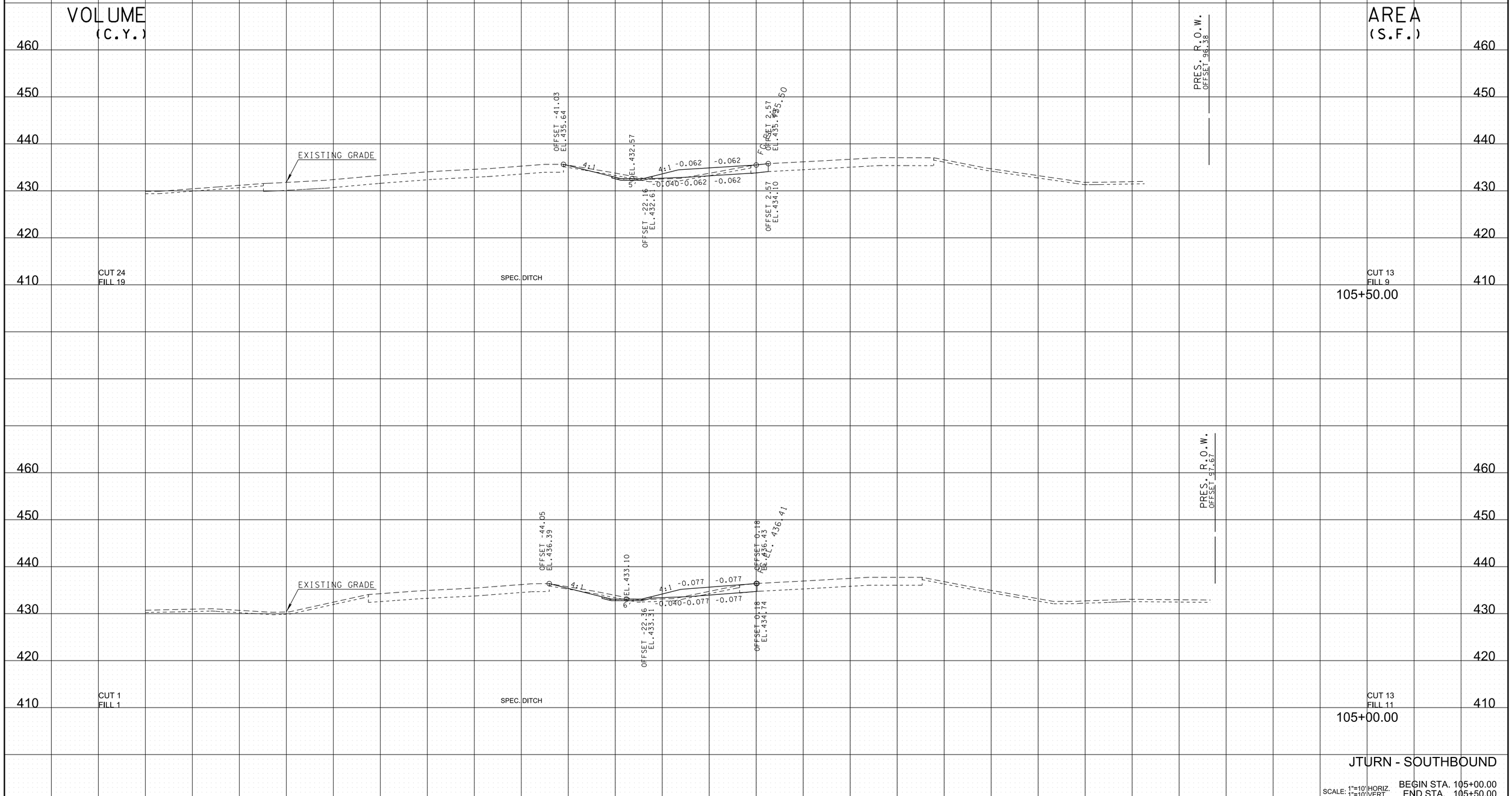
SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 104+50.00
END STA. 104+97.81

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	42
FUNCT.	2024	HSIP-22(91)	57
P.I.H.	2026	HSIP-22(91)	57
PS&E	2026	HSIP-22(91)	57

SOUTHBOUND - JTURN



JTURN - SOUTHBOUND

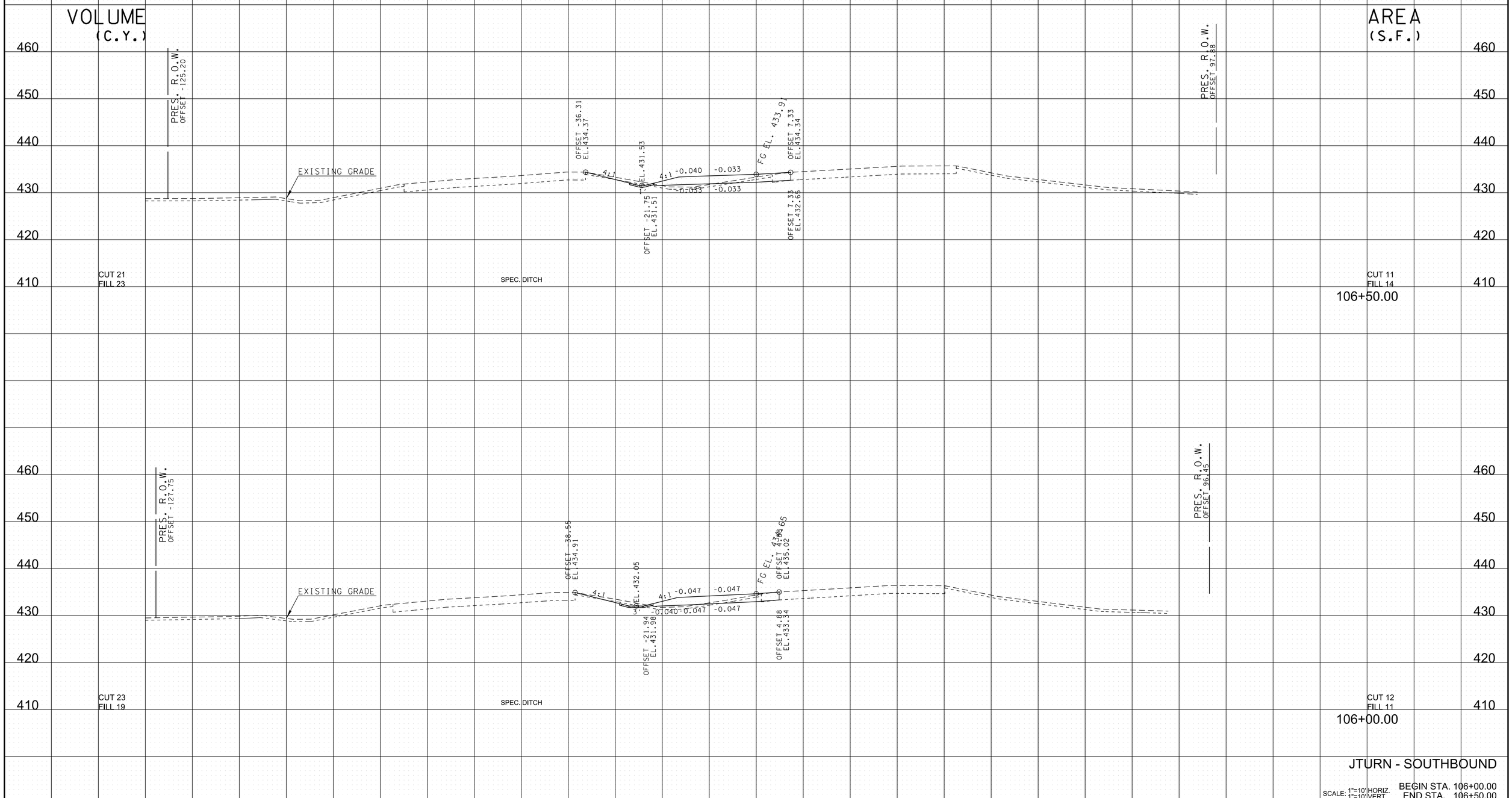
SCALE: 1"=10' HORIZ. 1"=10' VERT.

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	43
FUNCT.	2024	HSIP-22(91)	58
P.I.H.	2026	HSIP-22(91)	58
PS&E	2026	HSIP-22(91)	58

SOUTHBOUND - JTURN



JTURN - SOUTHBOUND

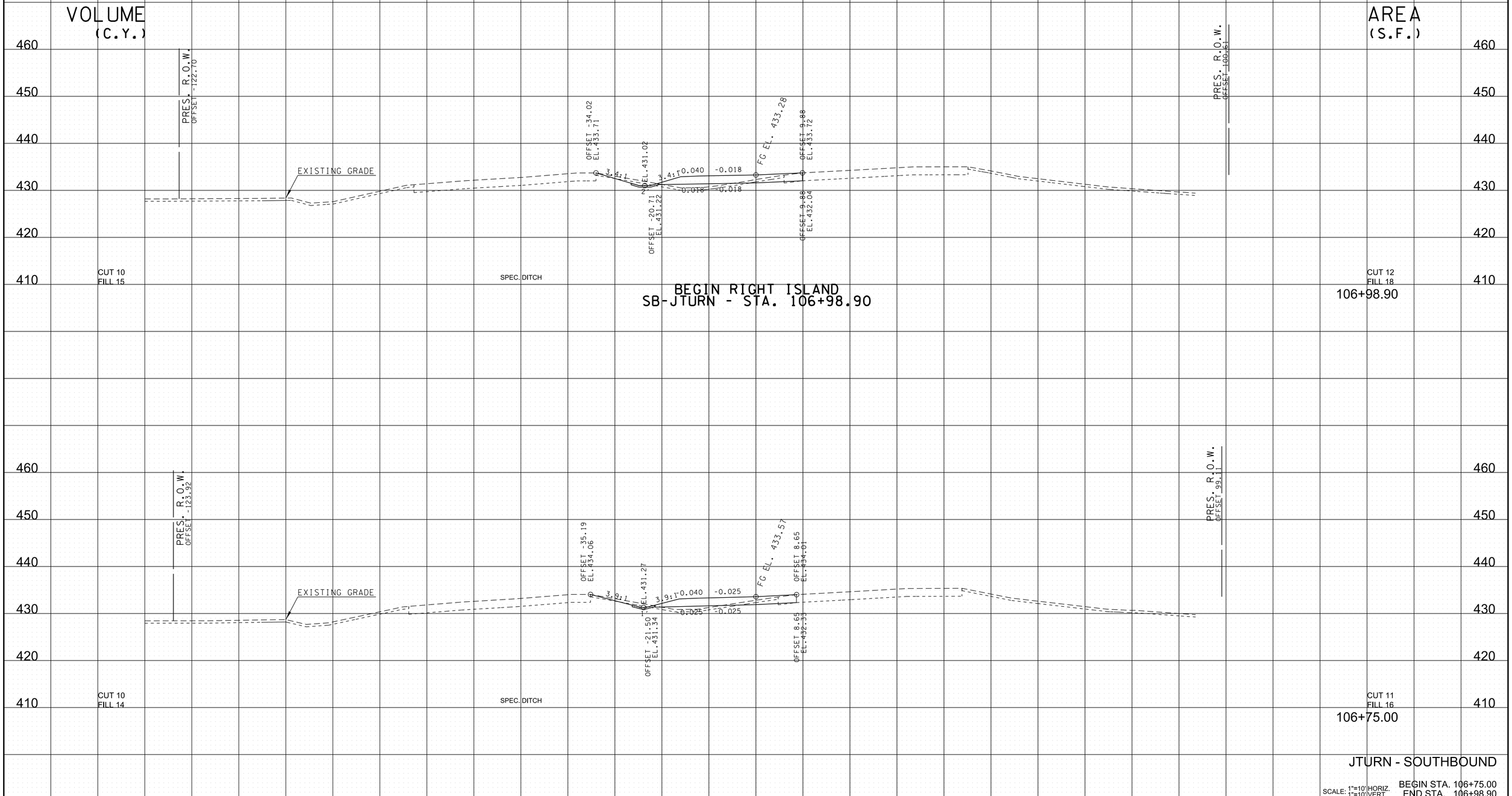
SCALE: 1"=10' HORIZ. 1"=10' VERT.

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	44
FUNCT.	2024	HSIP-22(91)	59
P.I.H.	2026	HSIP-22(91)	59
PS&E	2026	HSIP-22(91)	59

SOUTHBOUND - JTURN



JTURN - SOUTHBOUND

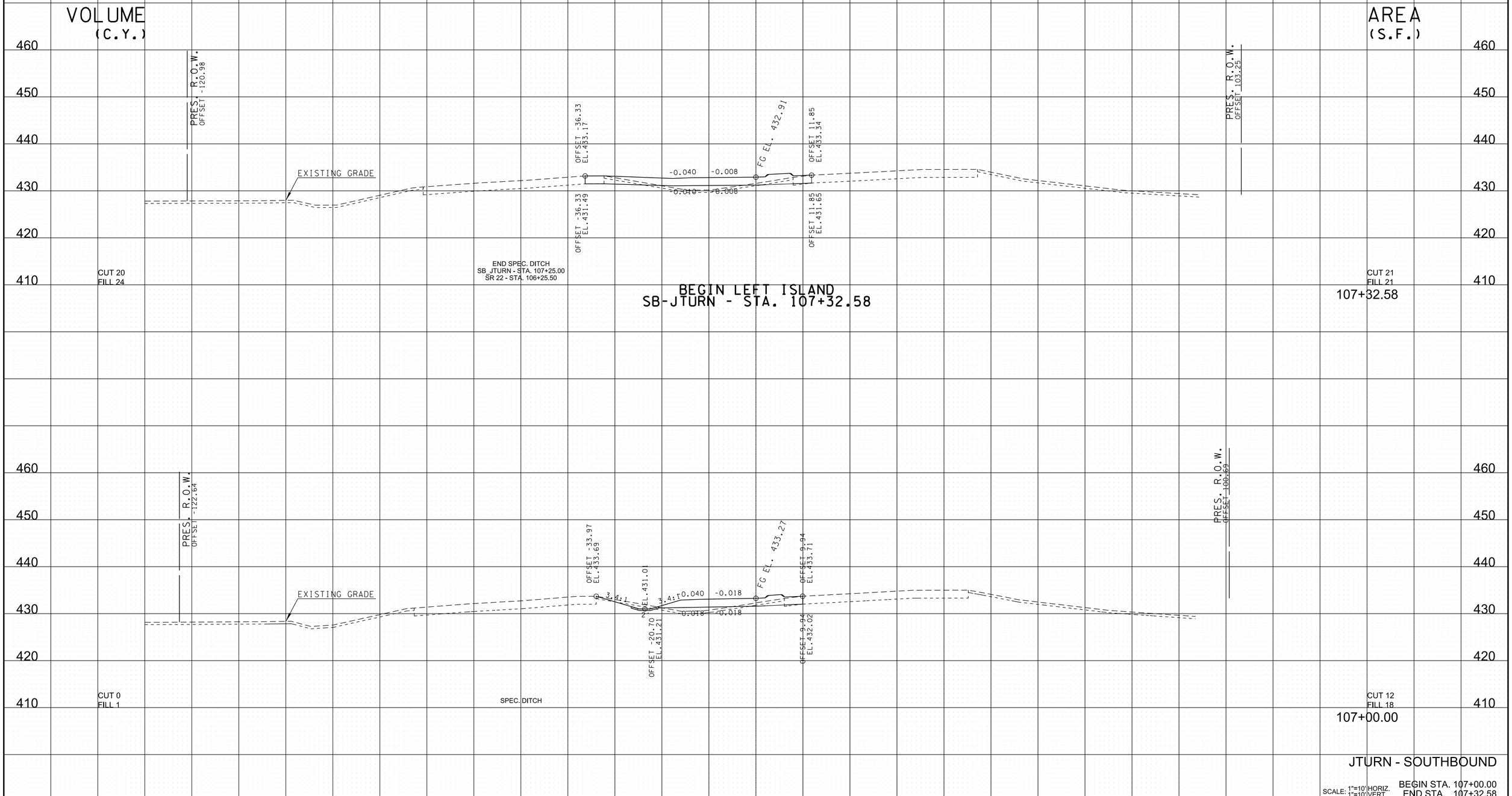
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 106+75.00
END STA. 106+98.90

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	45
FUNCT.	2024	HSIP-22(91)	60
P.I.H.	2026	HSIP-22(91)	60
PS&E	2026	HSIP-22(91)	60

SOUTHBOUND - JTURN



JTURN - SOUTHBOUND

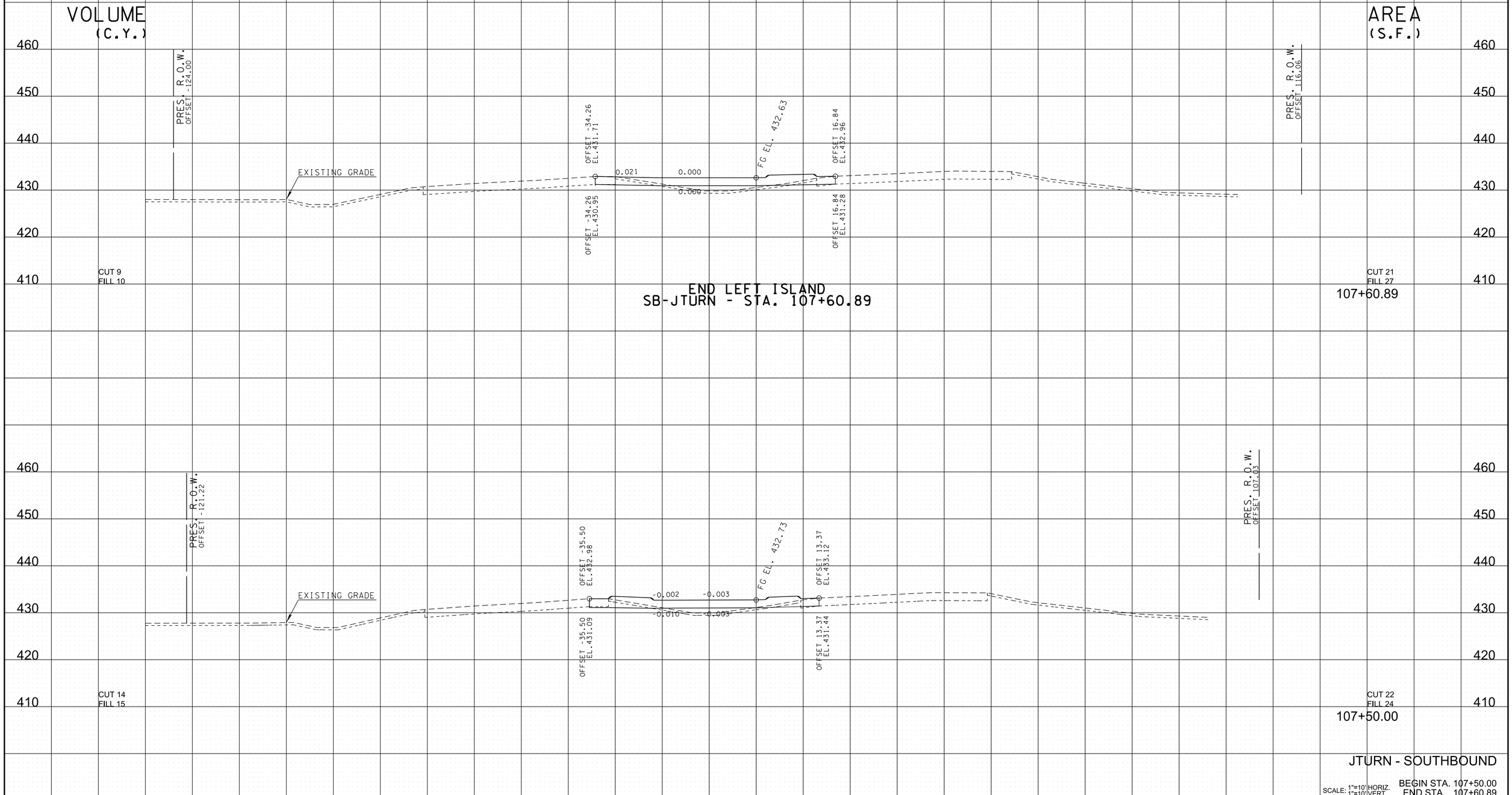
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 107+00.00
END STA. 107+32.58

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	46
FUNCT.	2024	HSIP-22(91)	61
P.I.H.	2026	HSIP-22(91)	61
PS&E	2026	HSIP-22(91)	61

SOUTHBOUND - JTURN



JTURN - SOUTHBOUND

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

BEGIN STA. 107+50.00
END STA. 107+60.89

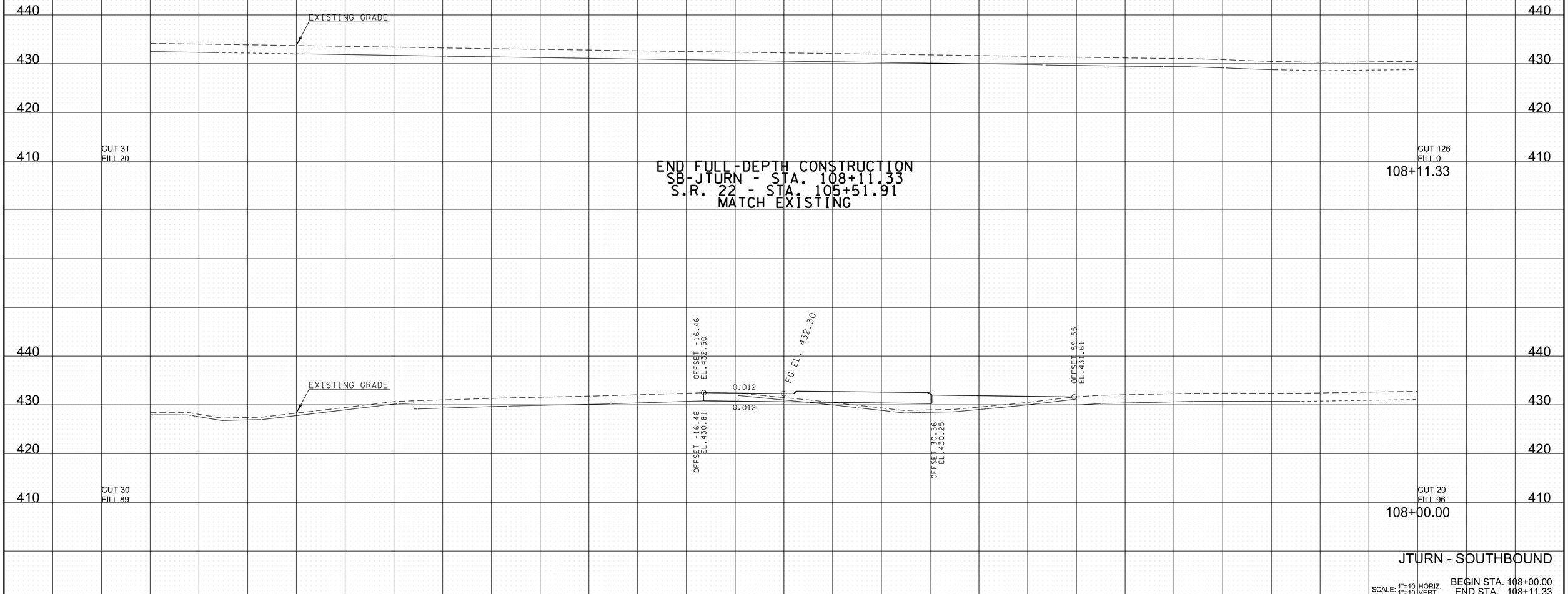
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	47
FUNCT.	2024	HSIP-22(91)	62
P.I.H.	2026	HSIP-22(91)	62
PS&E	2026	HSIP-22(91)	62

SOUTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



JTURN - SOUTHBOUND

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

BEGIN STA. 108+00.00
END STA. 108+11.33

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	63
P.I.H.	2026	HSIP-22(91)	63
PS&E	2026	HSIP-22(91)	63

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430
420

EXISTING GRADE

PRES. R.O.W. OFFSET 182.52

CUT 0
FILL 0

BEGIN SPEC. DITCH
NB INT - STA. 112+60.65
SR 22 - STA. 112+60.72

BEGIN FULL-DEPTH CONSTRUCTION
NB-INT - STA. 112+60.64
S.R. 22 - STA. 112+60.67
MATCH EXISTING

CUT 7
FILL 0
112+60.64

EXISTING GRADE

CUT 0
FILL 0

CUT 0
FILL 0
112+50.00

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

NORTHBOUND - INT

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

BEGIN STA. 112+50.00
END STA. 112+60.64

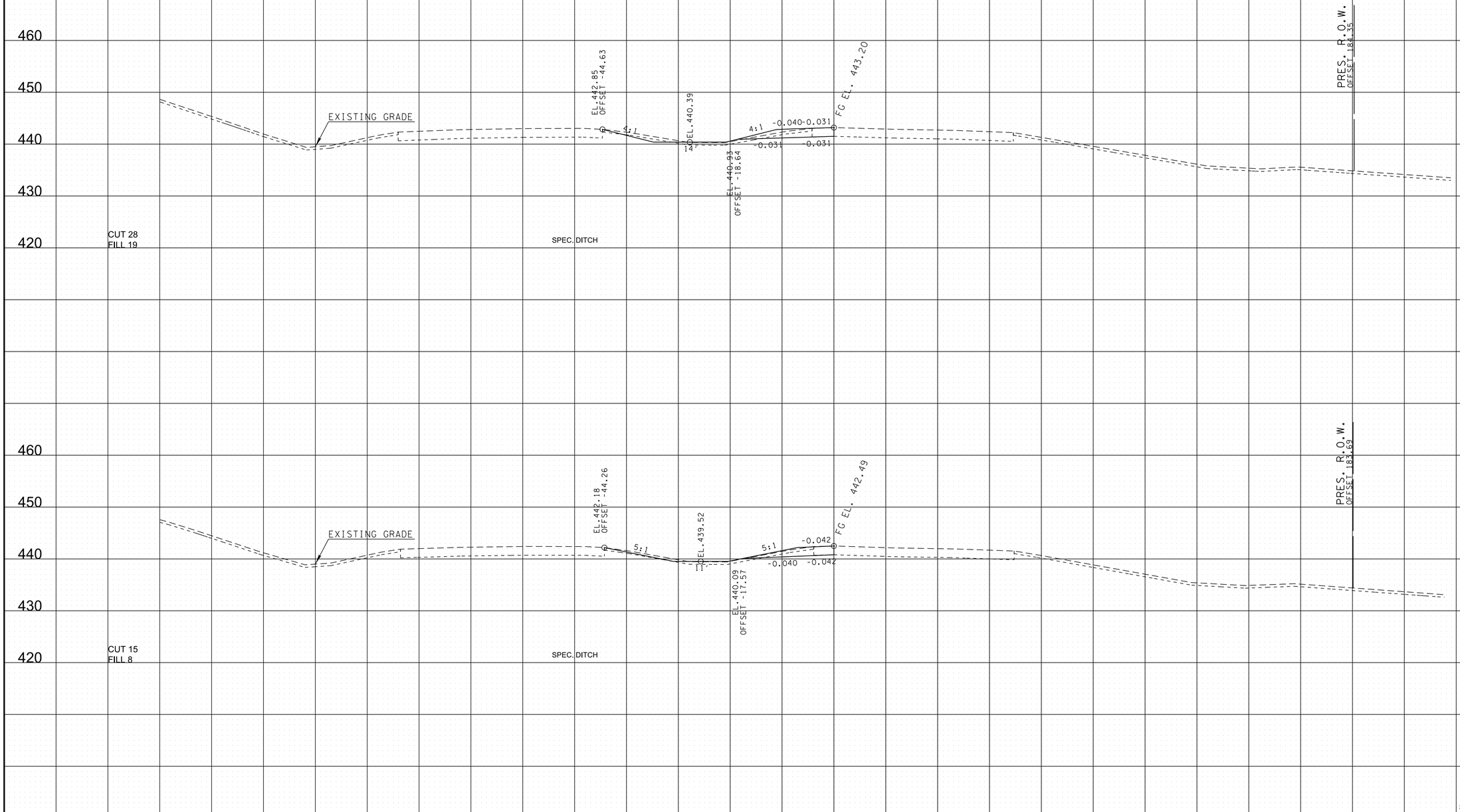
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	64
P.I.H.	2026	HSIP-22(91)	64
PS&E	2026	HSIP-22(91)	64

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 113+00.00
END STA. 113+50.00

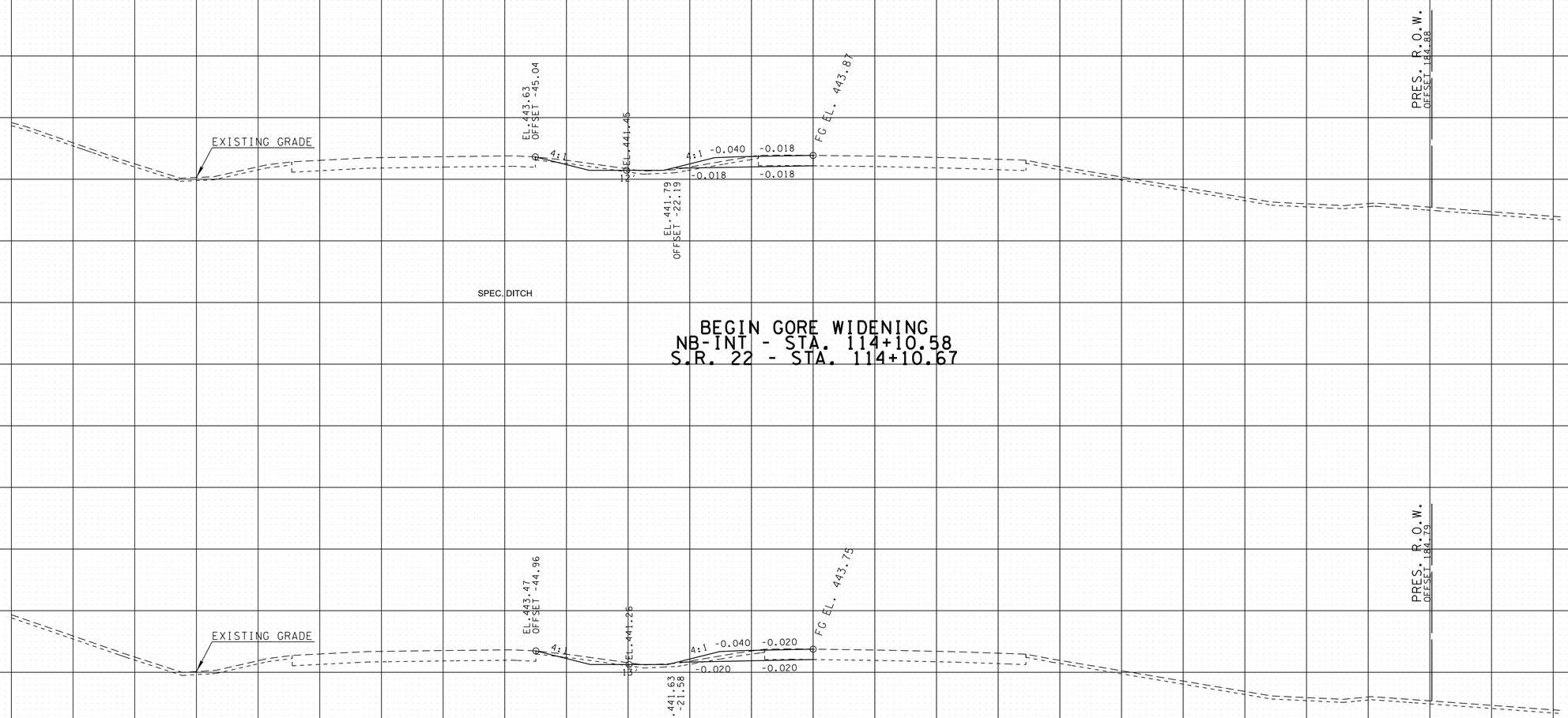
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	65
P.I.H.	2026	HSIP-22(91)	65
PS&E	2026	HSIP-22(91)	65

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

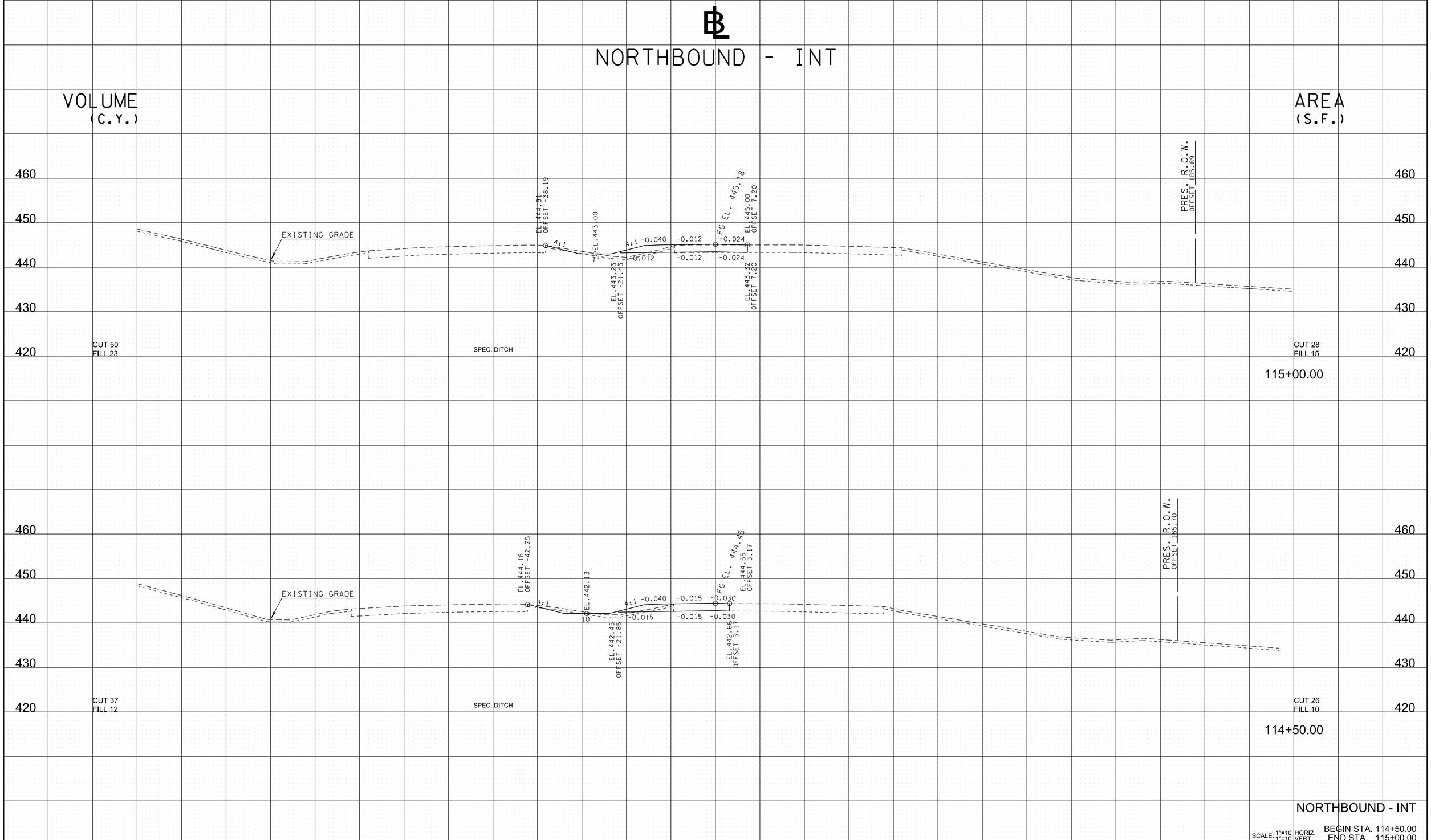
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 114+00.00
END STA. 114+10.58

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	66
P.I.H.	2026	HSIP-22(91)	66
PS&E	2026	HSIP-22(91)	66

NORTHBOUND - INT



NORTHBOUND - INT

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

BEGIN STA. 114+50.00
END STA. 115+00.00

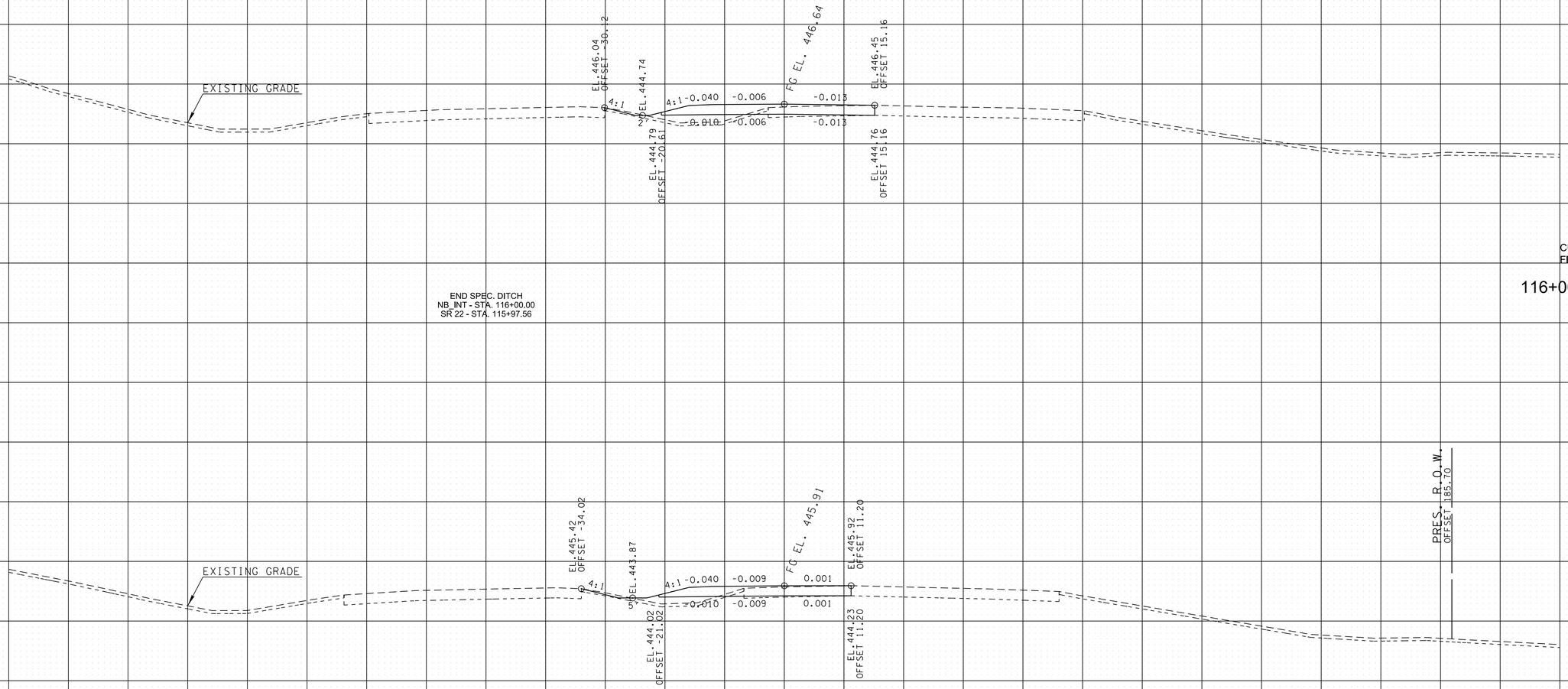
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	67
P.I.H.	2026	HSIP-22(91)	67
PS&E	2026	HSIP-22(91)	67

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 115+50.00
END STA. 116+00.00

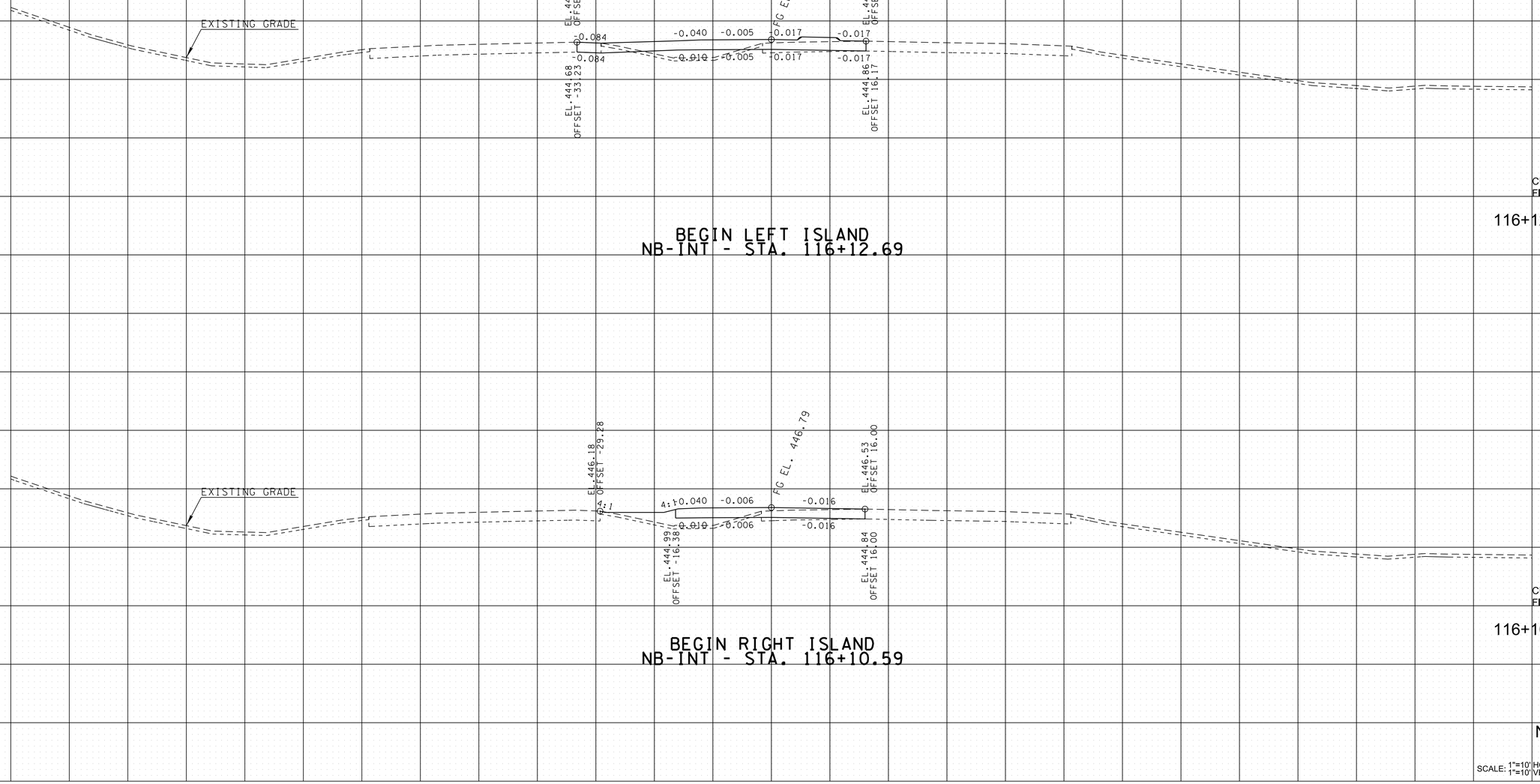
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	68
P.I.H.	2026	HSIP-22(91)	68
PS&E	2026	HSIP-22(91)	68

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 116+10.59
END STA. 116+12.69

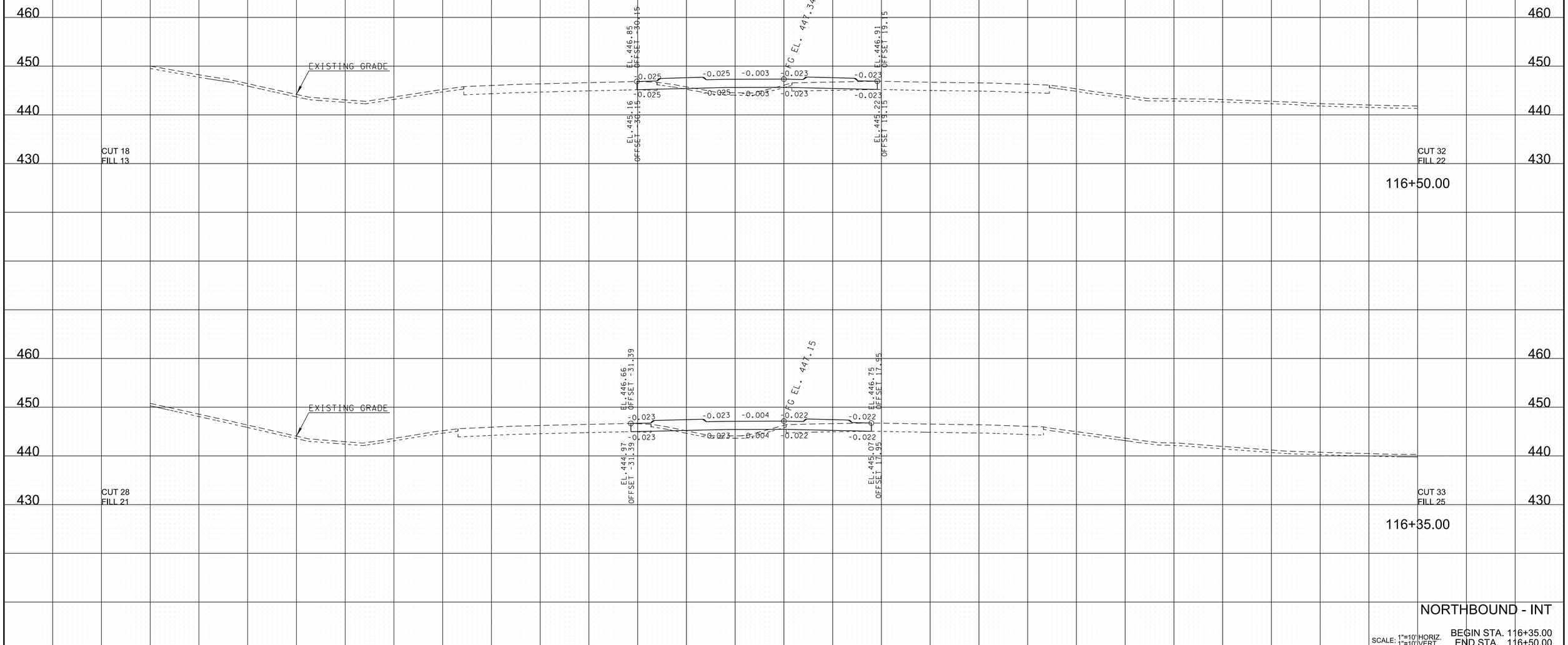
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	69
P.I.H.	2026	HSIP-22(91)	69
PS&E	2026	HSIP-22(91)	69

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 116+35.00
END STA. 116+50.00

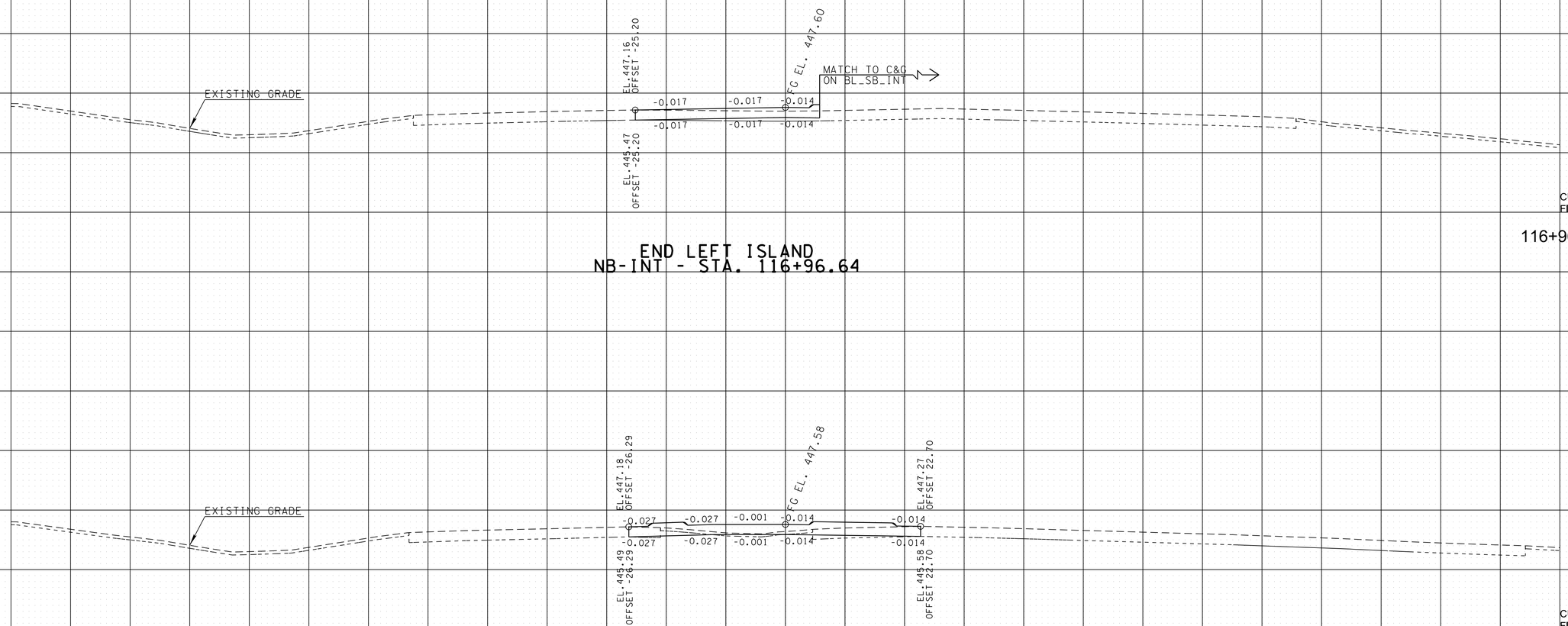
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	70
P.I.H.	2026	HSIP-22(91)	70
PS&E	2026	HSIP-22(91)	70

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 116+85.00
END STA. 116+96.64

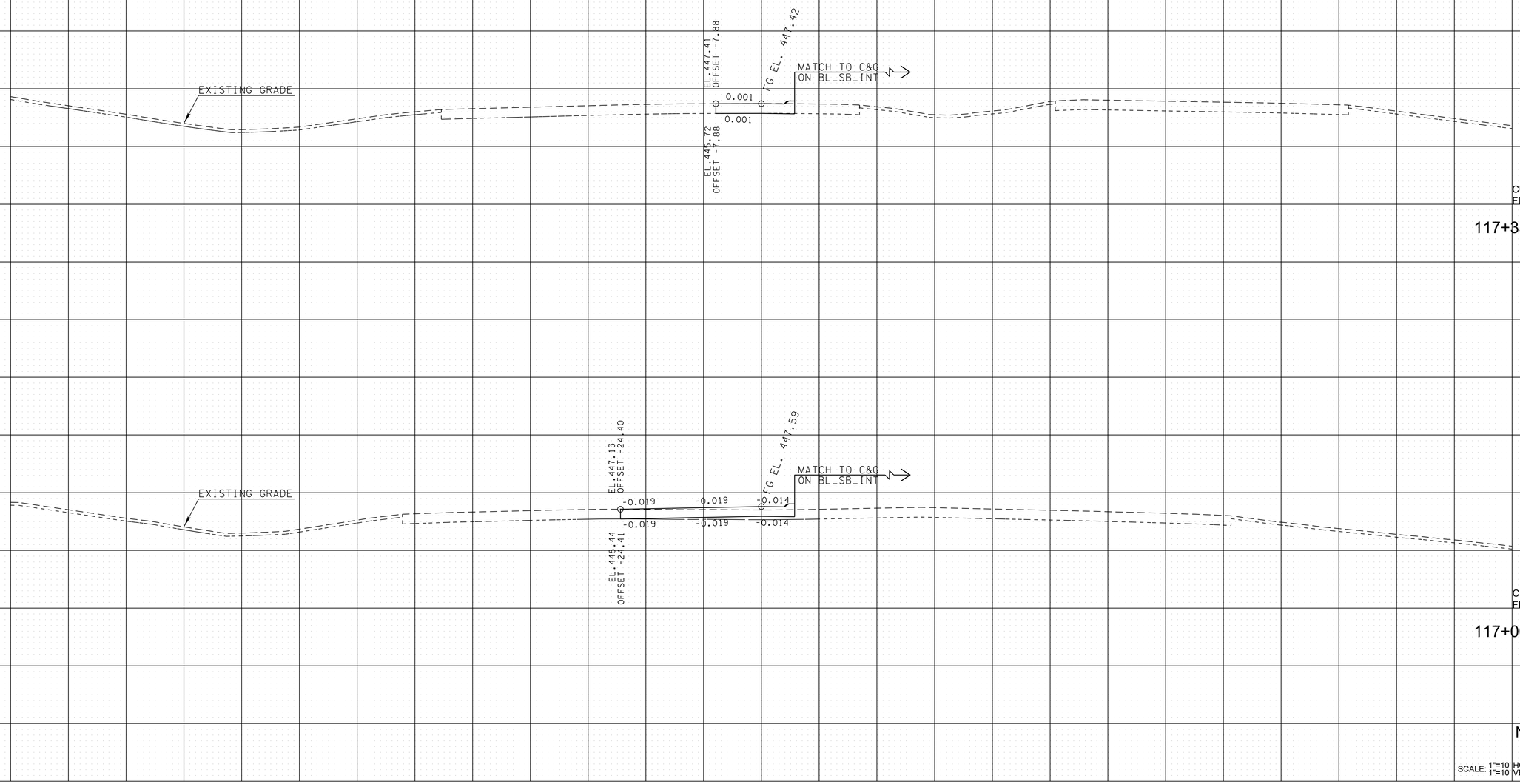
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	71
P.I.H.	2026	HSIP-22(91)	71
PS&E	2026	HSIP-22(91)	71

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - INT

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

BEGIN STA. 117+00.00
END STA. 117+35.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	72
P.I.H.	2026	HSIP-22(91)	72
PS&E	2026	HSIP-22(91)	72

NORTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430

EXISTING GRADE

CUT 18
FILL 0

CUT 84
FILL 0

END FULL-DEPTH CONSTRUCTION
NB-INT - STA. 117+43.98
S.R. 22 - STA. 117+35.67
MATCH EXISTING

117+43.98

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

NORTHBOUND - INT

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

BEGIN STA. 117+43.98
END STA. 117+43.98

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	73
P.I.H.	2026	HSIP-22(91)	73
PS&E	2026	HSIP-22(91)	73

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)

480
470
460
450
440
430
450
440

PRES. R.O.W. OFFSET 104.22

EXISTING GRADE

CUT 0
FILL 0

BEGIN SPEC. DITCH
SB_INT - STA. 122+29.33
SR 22 - STA. 121+70.67

BEGIN FULL-DEPTH CONSTRUCTION
SB-INT - STA. 122+29.33
S.R. 22 - STA. 121+70.67
MATCH EXISTING

CUT 7
FILL 0
122+29.33

EXISTING GRADE

CUT 0
FILL 0

CUT 0
FILL 0
122+00.00

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

SOUTHBOUND - INT

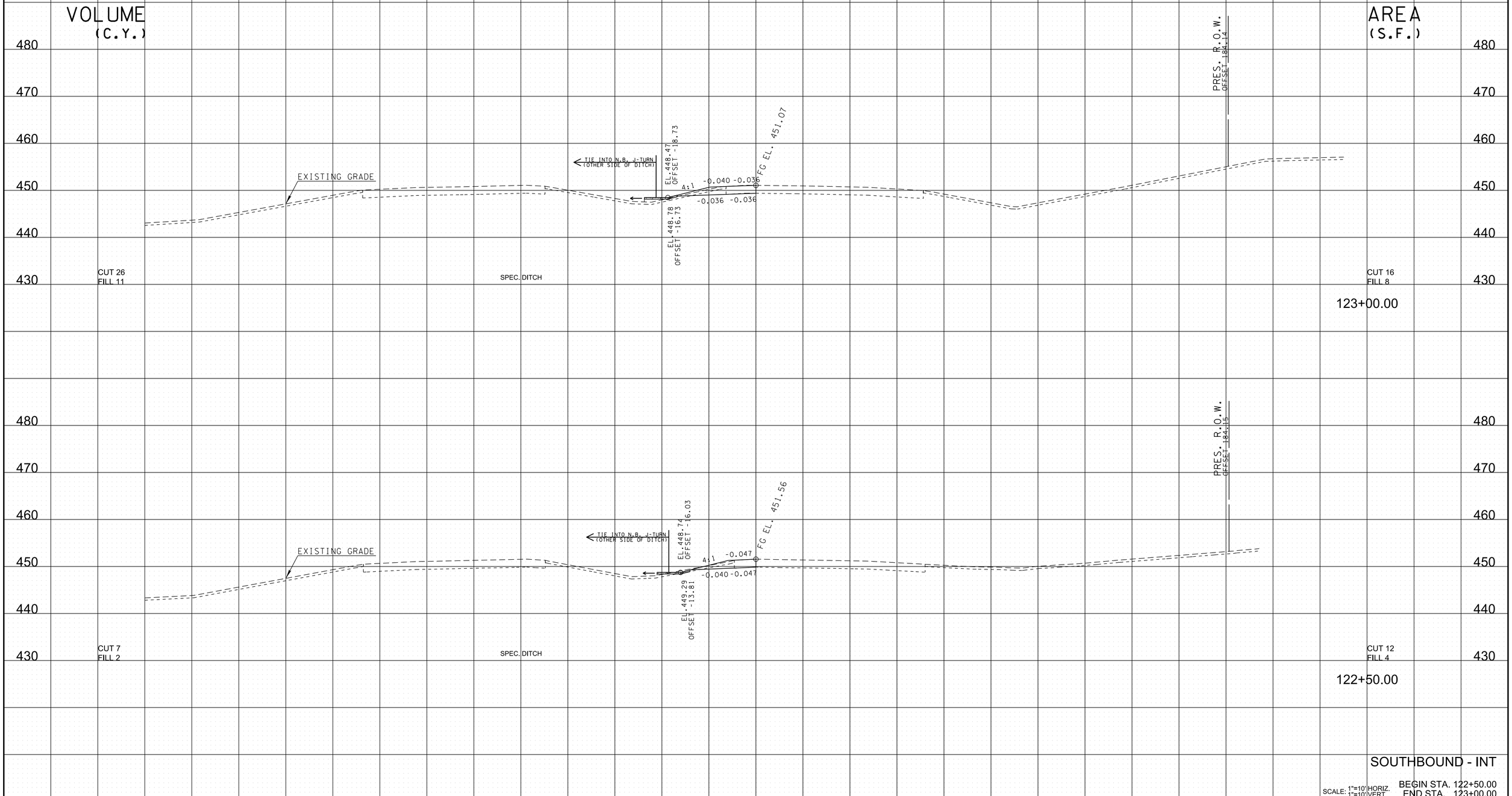
SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 122+00.00
END STA. 122+29.33

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	74
P.I.H.	2026	HSIP-22(91)	74
PS&E	2026	HSIP-22(91)	74

SOUTHBOUND - INT



SOUTHBOUND - INT

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

BEGIN STA. 122+50.00
END STA. 123+00.00

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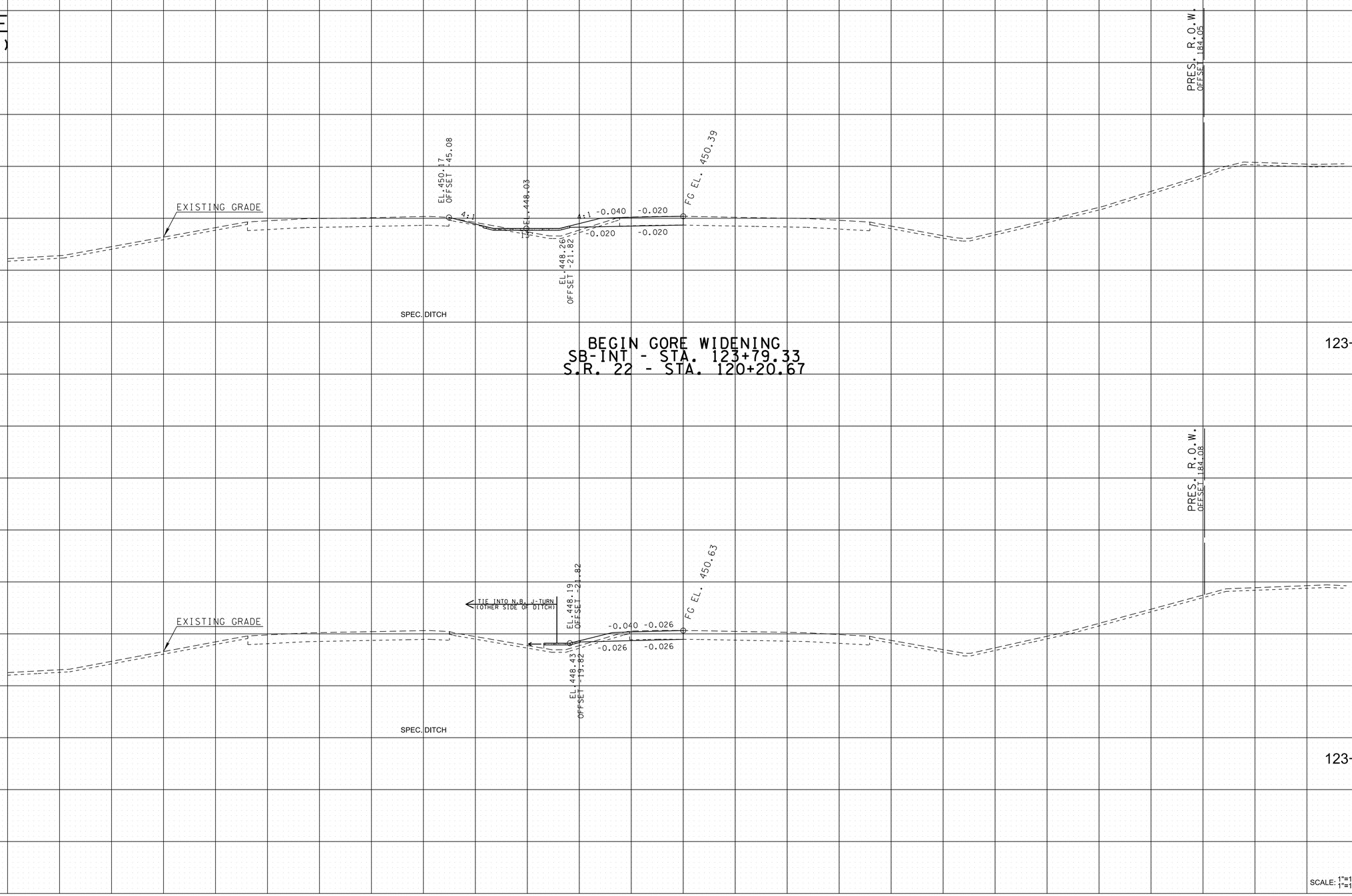
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	75
P.I.H.	2026	HSIP-22(91)	75
PS&E	2026	HSIP-22(91)	75

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



BEGIN GORE WIDENING
SB-INT - STA. 123+79.33
S.R. 22 - STA. 120+20.67

SOUTHBOUND - INT

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

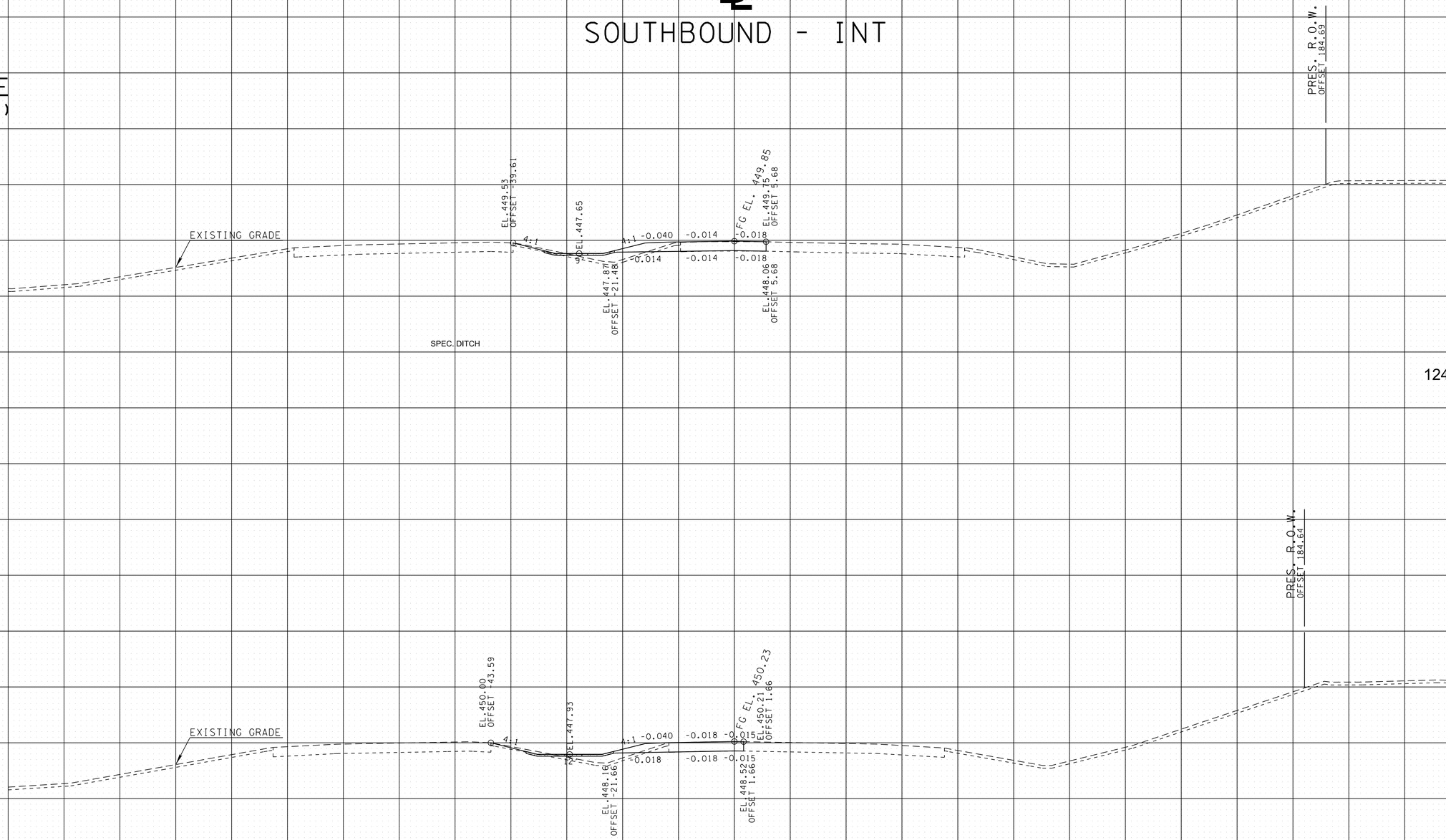
BEGIN STA. 123+50.00
END STA. 123+79.33

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	76
P.I.H.	2026	HSIP-22(91)	76
PS&E	2026	HSIP-22(91)	76

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



490 480 470 460 450 440 430

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

SOUTHBOUND - INT

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

BEGIN STA. 124+00.00
END STA. 124+50.00

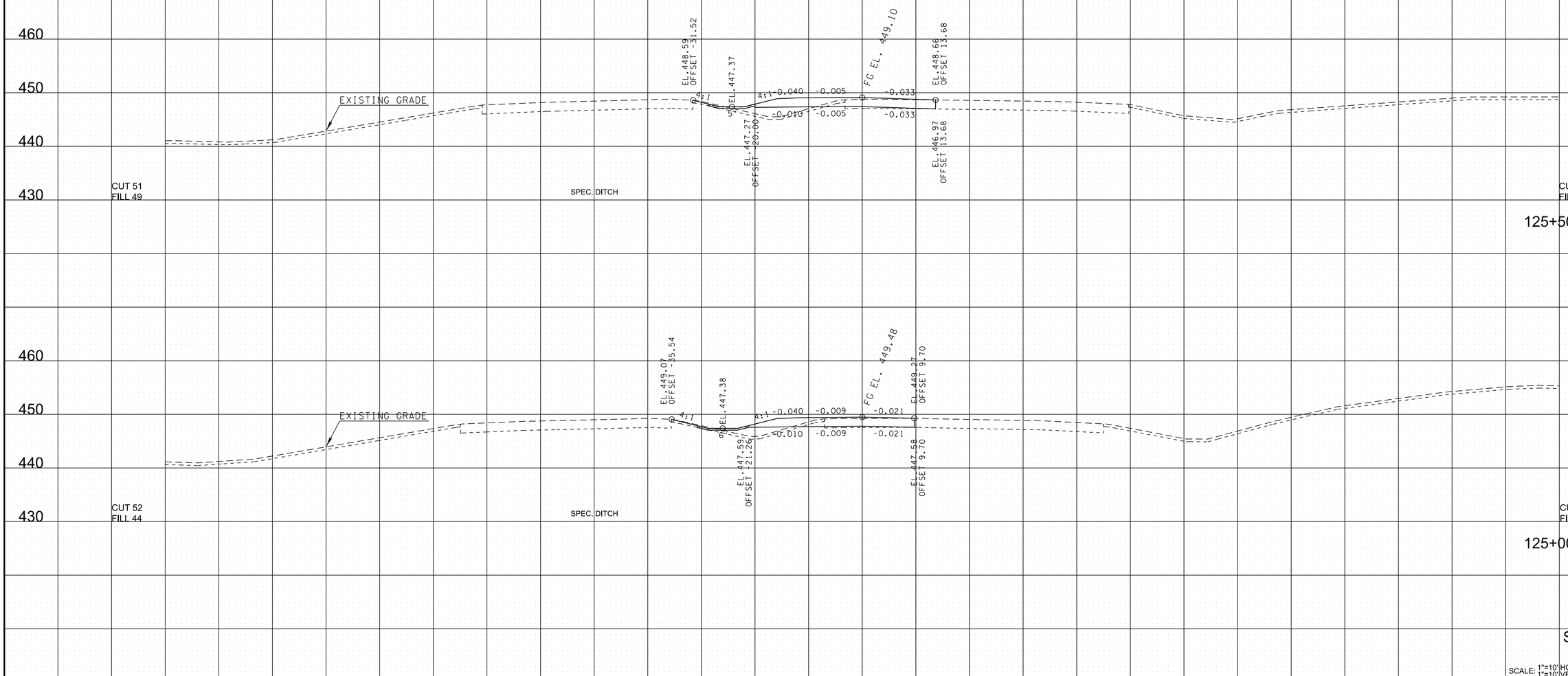
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	77
P.I.H.	2026	HSIP-22(91)	77
PS&E	2026	HSIP-22(91)	77

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



SOUTHBOUND - INT

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

BEGIN STA. 125+00.00
END STA. 125+50.00

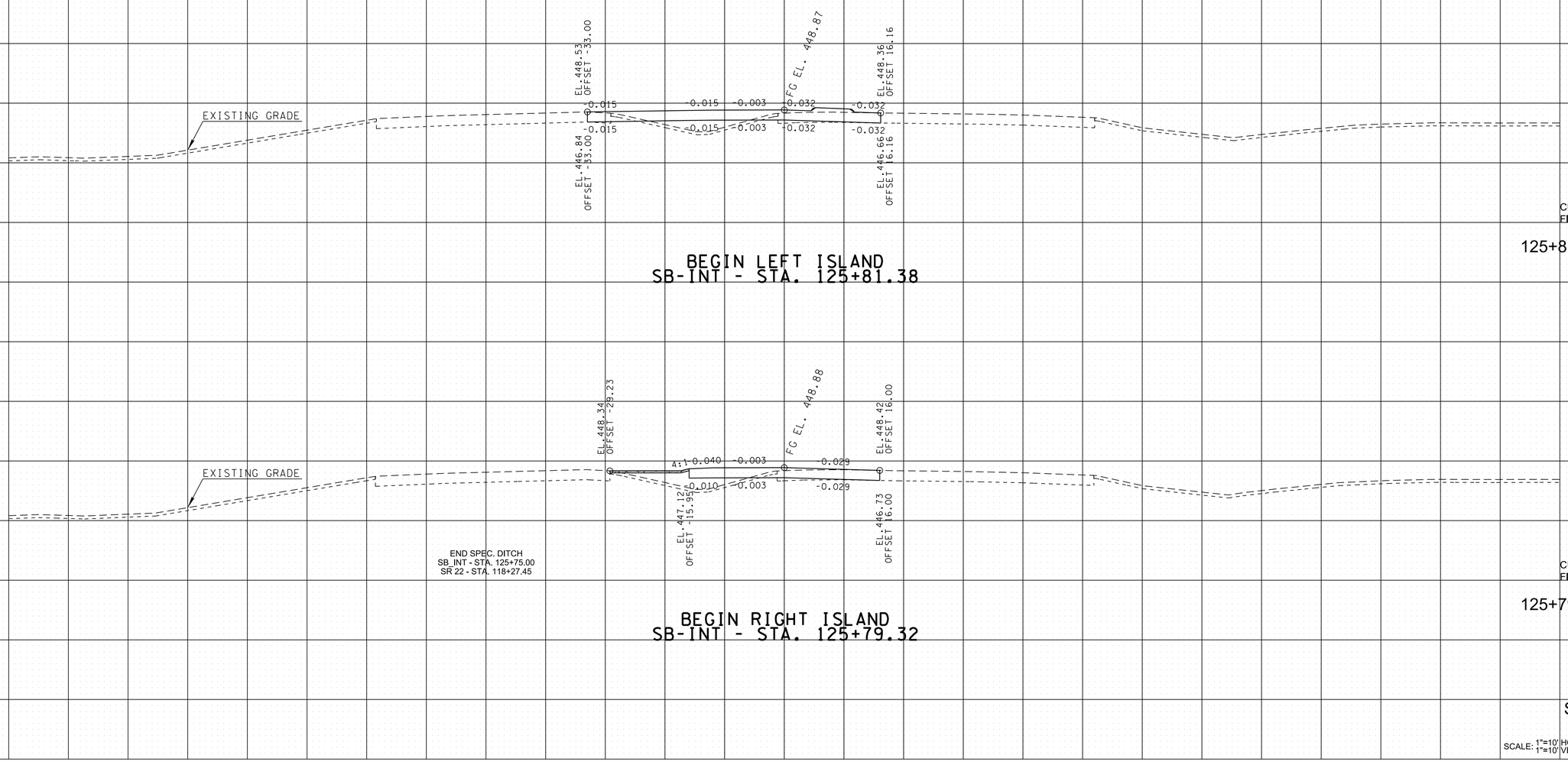
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	78
P.I.H.	2026	HSIP-22(91)	78
PS&E	2026	HSIP-22(91)	78

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



SOUTHBOUND - INT

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

BEGIN STA. 125+79.32
END STA. 125+81.38

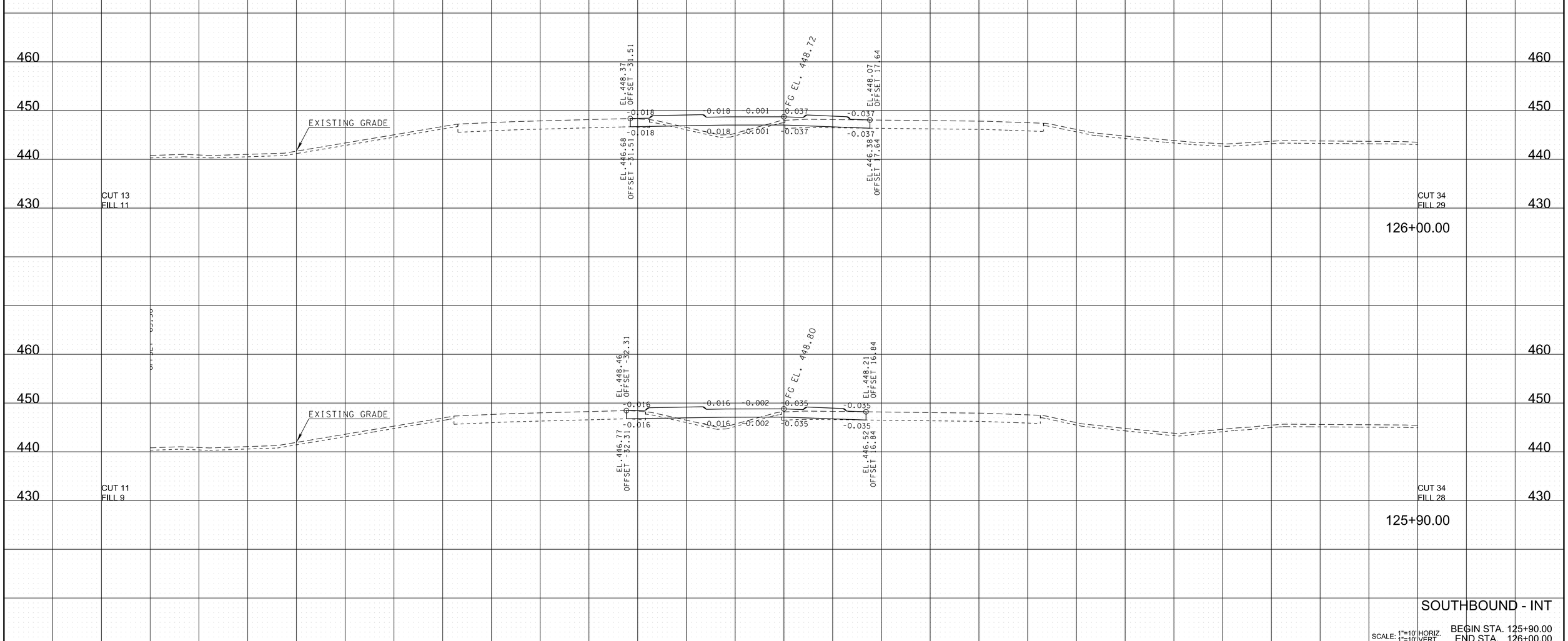
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	79
P.I.H.	2026	HSIP-22(91)	79
PS&E	2026	HSIP-22(91)	79

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



SOUTHBOUND - INT

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

BEGIN STA. 125+90.00
END STA. 126+00.00

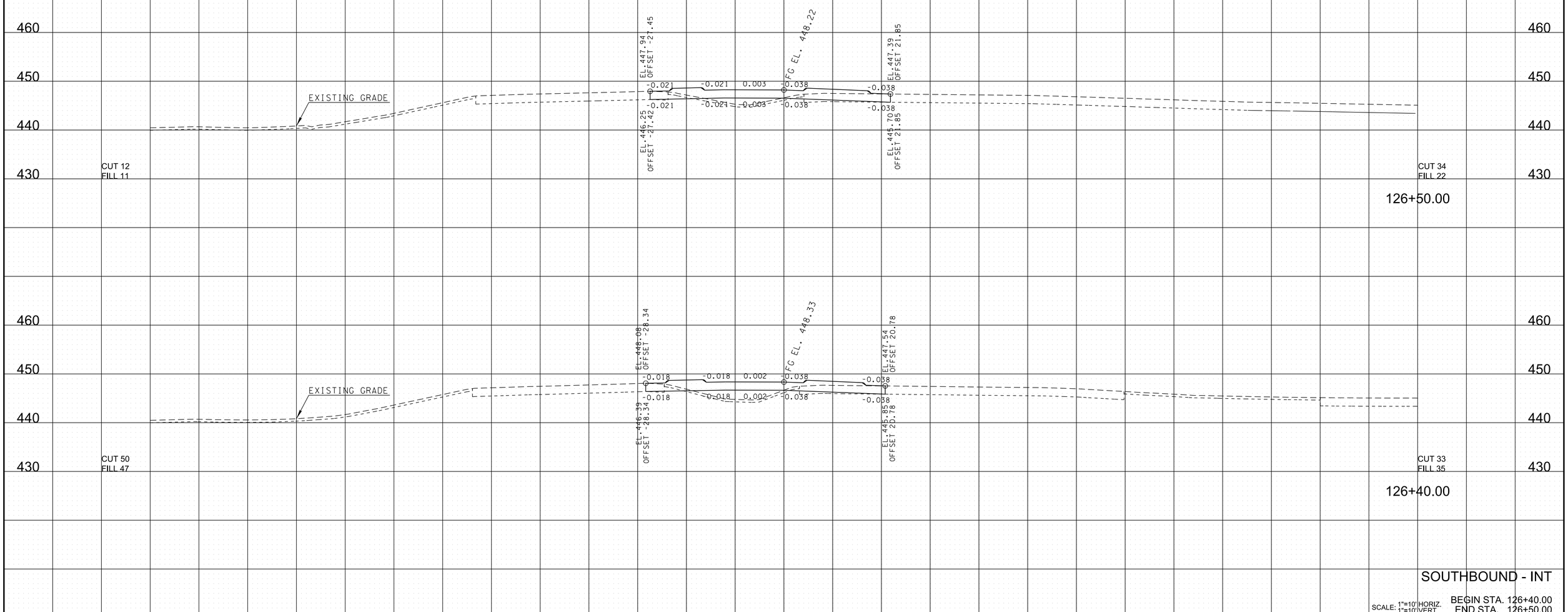
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	80
P.I.H.	2026	HSIP-22(91)	80
PS&E	2026	HSIP-22(91)	80

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



SOUTHBOUND - INT

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

BEGIN STA. 126+40.00
END STA. 126+50.00

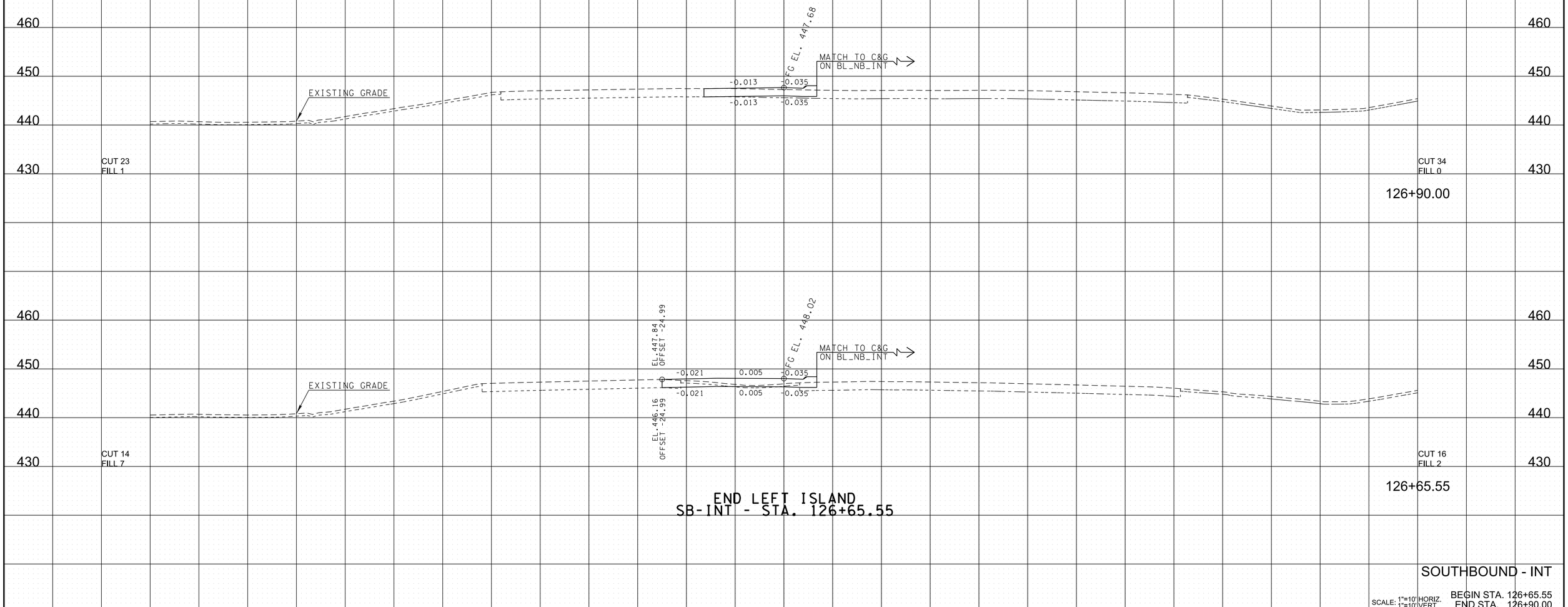
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	81
P.I.H.	2026	HSIP-22(91)	81
PS&E	2026	HSIP-22(91)	81

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)



END LEFT ISLAND
SB-INT - STA. 126+65.55

SOUTHBOUND - INT

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

BEGIN STA. 126+65.55
END STA. 126+90.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	82
P.I.H.	2026	HSIP-22(91)	82
PS&E	2026	HSIP-22(91)	82

SOUTHBOUND - INT

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430

EXISTING GRADE

CUT 26
FILL 0

CUT 85
FILL 0

127+12.75

END FULL-DEPTH CONSTRUCTION
SB-INT - STA. 127+12.75
S.R. 22 - STA. 116+95.67
MATCH EXISTING

EL. 447.49
OFFSET -10.53

FG EL. 447.53

MATCH TO C&G
ON BL_NB_INT

-0.003 -0.035

-0.003 -0.035

EL. 445.81
OFFSET -10.53

EXISTING GRADE

CUT 11
FILL 0

CUT 27
FILL 0

127+00.00

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

SOUTHBOUND - INT

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

BEGIN STA. 127+00.00
END STA. 127+12.75

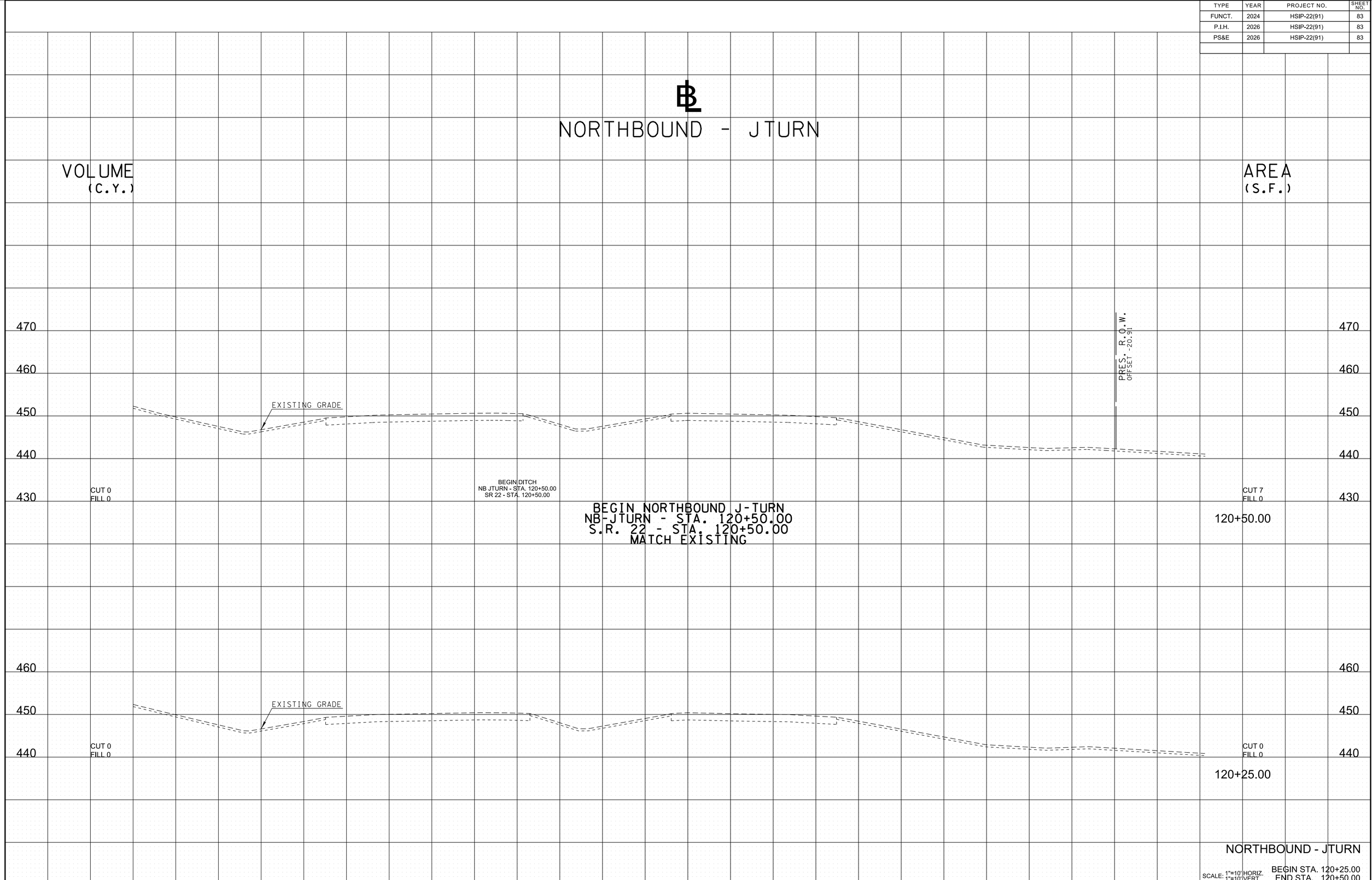
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	83
P.I.H.	2026	HSIP-22(91)	83
PS&E	2026	HSIP-22(91)	83

NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - JTURN

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

BEGIN STA. 120+25.00
END STA. 120+50.00

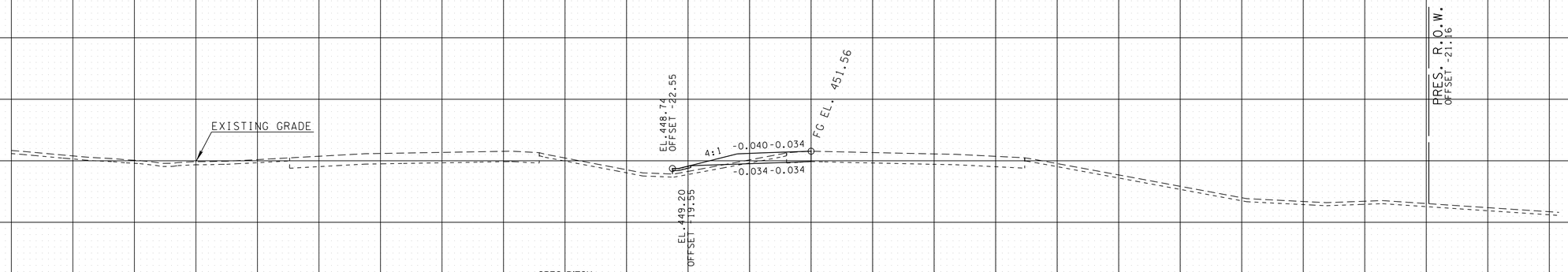
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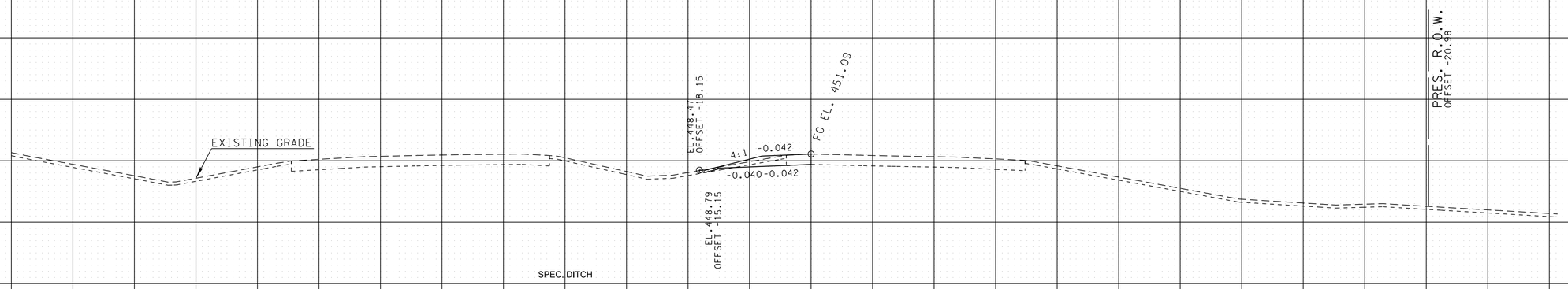
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FUNCT.	2024	HSIP-22(91)	84
P.I.H.	2026	HSIP-22(91)	84
PS&E	2026	HSIP-22(91)	84

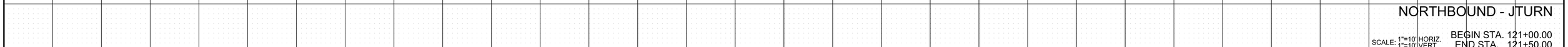
NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)







NORTHBOUND - JTURN

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

BEGIN STA. 121+00.00
END STA. 121+50.00

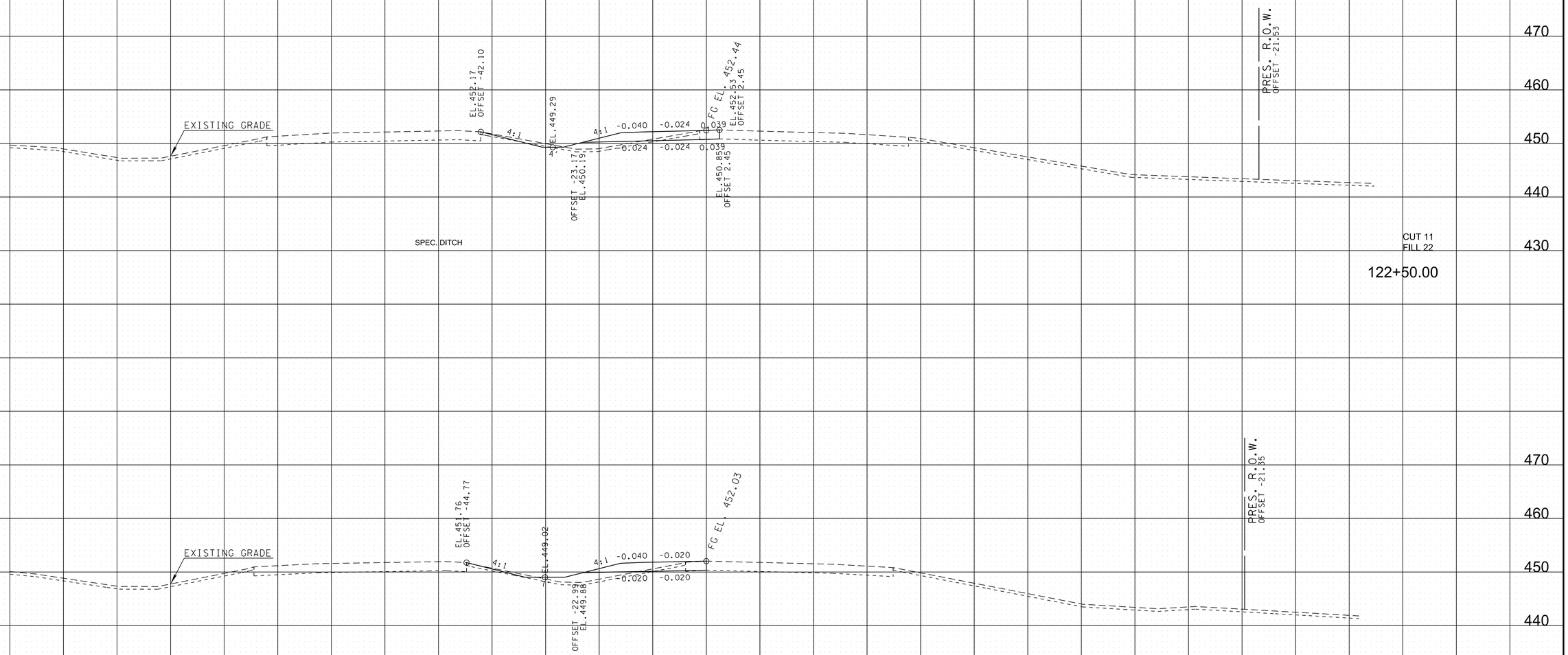
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	85
P.I.H.	2026	HSIP-22(91)	85
PS&E	2026	HSIP-22(91)	85

NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



BEGIN GORE WIDENING
NB-JTURN - STA. 122+00.00
S.R. 22 - STA. 122+00.81

NORTHBOUND - JTURN

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

BEGIN STA. 122+00.00
END STA. 122+50.00

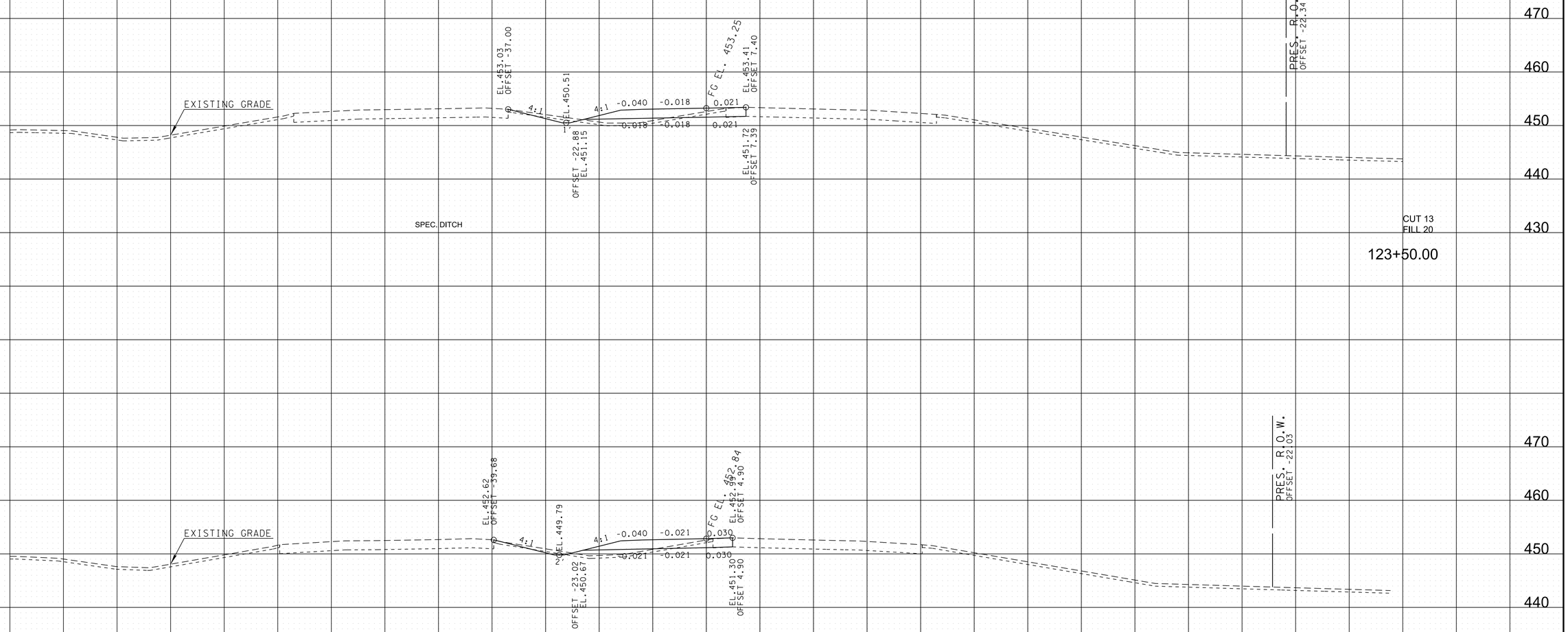
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	86
P.I.H.	2026	HSIP-22(91)	86
PS&E	2026	HSIP-22(91)	86

NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - JTURN

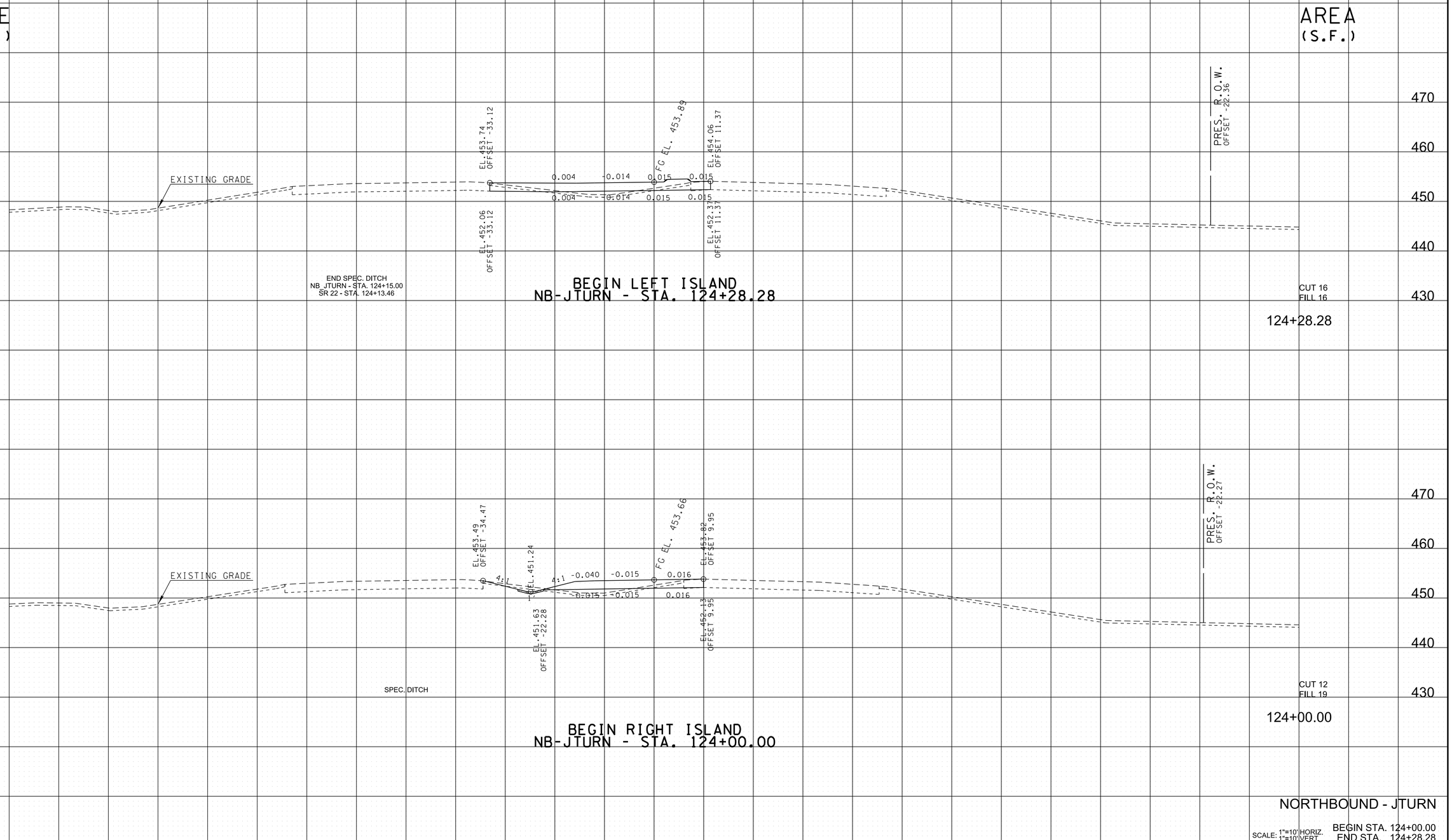
SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 123+00.00
END STA. 123+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	87
P.I.H.	2026	HSIP-22(91)	87
PS&E	2026	HSIP-22(91)	87

NORTHBOUND - JTURN



NORTHBOUND - JTURN

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

BEGIN STA. 124+00.00
END STA. 124+28.28

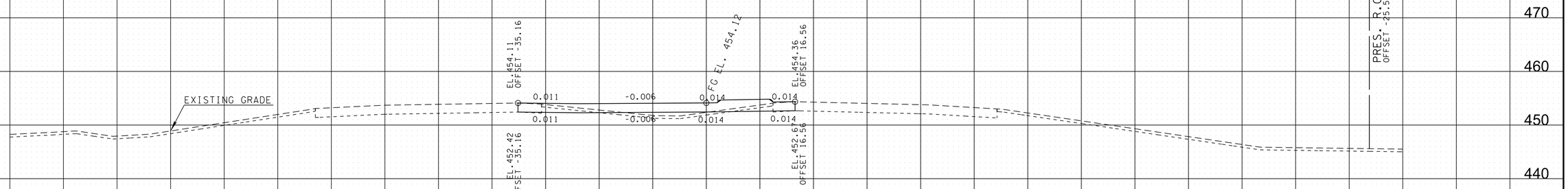
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	88
P.I.H.	2026	HSIP-22(91)	88
PS&E	2026	HSIP-22(91)	88

NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)

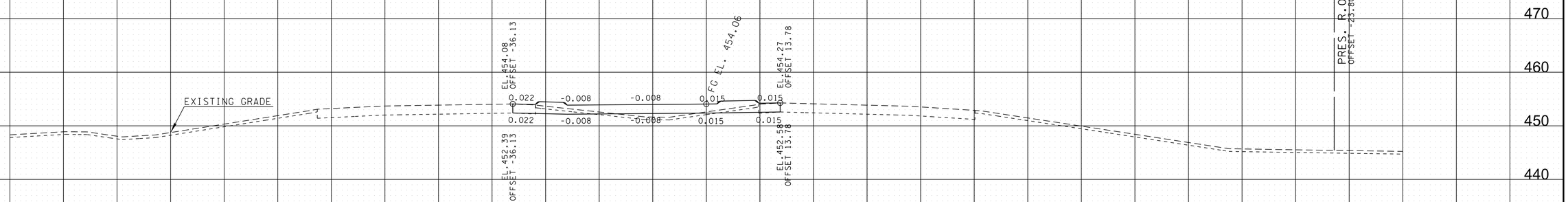


CUT 6
FILL 5

CUT 23
FILL 17

124+57.56

END LEFT ISLAND
NB-JTURN - STA. 124+57.56



CUT 16
FILL 13

CUT 23
FILL 16

124+50.00

NORTHBOUND - JTURN

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

BEGIN STA. 124+50.00
END STA. 124+57.56

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

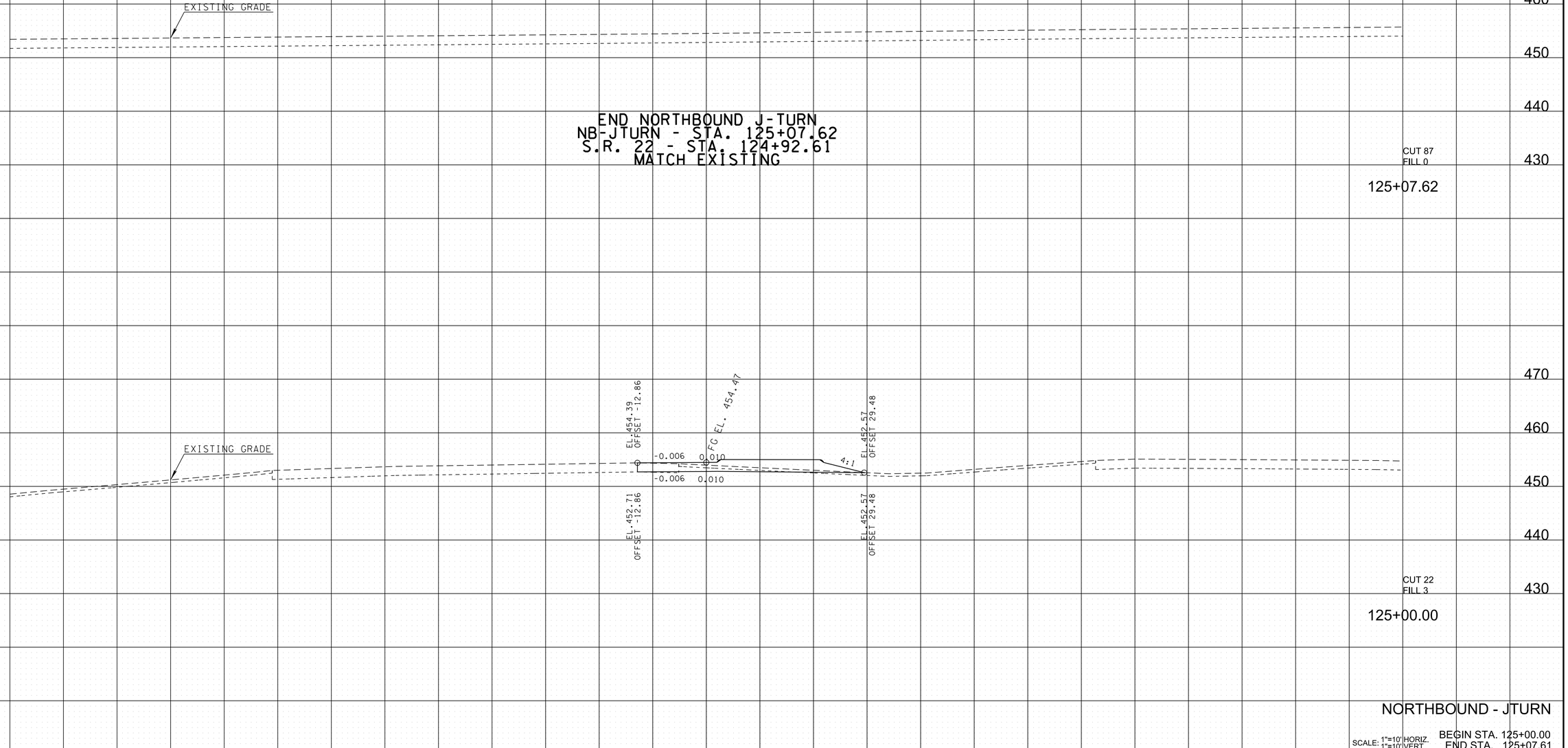
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	89
P.I.H.	2026	HSIP-22(91)	89
PS&E	2026	HSIP-22(91)	89

NORTHBOUND - JTURN

VOLUME (C.Y.)

AREA (S.F.)



NORTHBOUND - JTURN

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

BEGIN STA. 125+00.00
END STA. 125+07.61

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	49
FUNCT.	2024	HSIP-22(91)	90
P.I.H.	2026	HSIP-22(91)	90
PS&E	2026	HSIP-22(91)	90

℄

S.R. 124/DR SMITH LN

VOLUME
(C.Y.)

AREA
(S.F.)

460
450
440
430
420

EXISTING GRADE

CUT 0
FILL 0

CUT 44
FILL 0

BEGIN CONSTRUCTION
S.R. 124/DR SMITH LN - STA. 28+60.00
BEGIN EASTBOUND IMPROVEMENTS
MATCH EXISTING

28+60.00

EXISTING GRADE

450
440

CUT 0
FILL 0

CUT 0
FILL 0

28+50.00

S.R. 124/DR SMITH LN

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

BEGIN STA. 28+50.00
END STA. 28+60.00

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

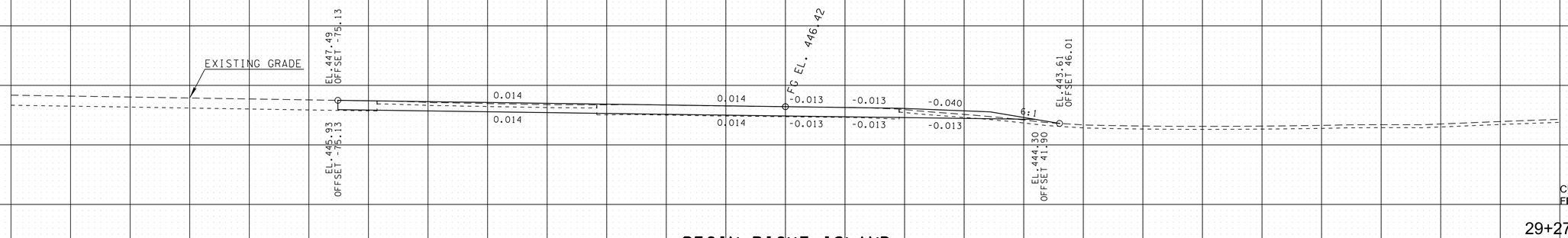
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	50
FUNCT.	2024	HSIP-22(91)	91
P.I.H.	2026	HSIP-22(91)	91
PS&E	2026	HSIP-22(91)	91

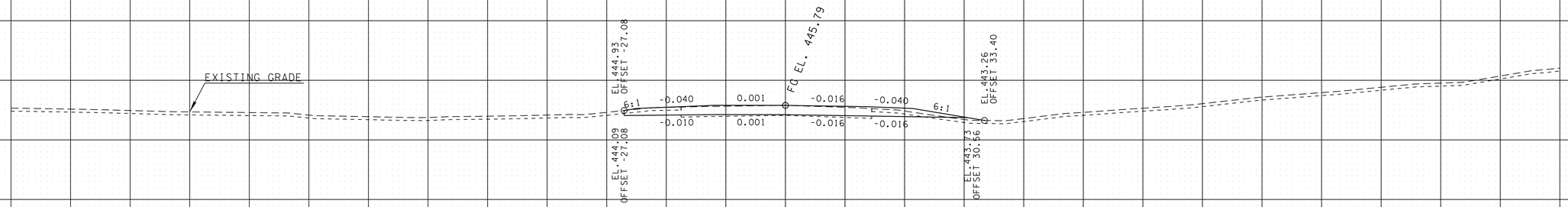
℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)



BEGIN RIGHT ISLAND
S.R. 124/DR SMITH LN - STA. 29+27.18



S.R. 124/DR SMITH LN

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

BEGIN STA. 29+00.00
END STA. 29+27.18

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	51
FUNCT.	2024	HSIP-22(91)	92
P.I.H.	2026	HSIP-22(91)	92
PS&E	2026	HSIP-22(91)	92

℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430

EXISTING GRADE

CUT 5
FILL 0

CUT 235
FILL 0

END EASTBOUND IMPROVEMENTS
S.R. 124/DR SMITH LN - STA. 29+49.51
MATCH EXISTING S.R. 22
EDGE OF TRAVELED WAY

29+49.51

460
450
440
430

EXISTING GRADE

EL.446.98
OFFSET -4.75

FG EL. 446.90

EL.446.05
OFFSET 59.31

-0.018
-0.011
-0.011
-0.011

EL.445.42
OFFSET -4.75

EL.444.66
OFFSET 59.31

CUT 90
FILL 2

CUT 98
FILL 0

END RIGHT ISLAND
S.R. 124/DR SMITH LN - STA. 29+48.77

29+48.77

S.R. 124/DR SMITH LN

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

BEGIN STA. 29+48.77
END STA. 29+49.51

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	52
FUNCT.	2024	HSIP-22(91)	93
P.I.H.	2026	HSIP-22(91)	93
PS&E	2026	HSIP-22(91)	93

℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430

EXISTING GRADE

CUT 0
FILL 0

CUT 233
FILL 0

BEGIN WESTBOUND IMPROVEMENTS
S.R. 124/DR SMITH LN - STA. 30+48.84
MATCH EXISTING S.R. 22
EDGE OF TRAVELED WAY

30+48.84

EXISTING GRADE

440
430

CUT 0
FILL 0

CUT 0
FILL 0

30+00.00

EXISTING GRADE

440
430

CUT 0
FILL 0

CUT 0
FILL 0

29+50.00

S.R. 124/DR SMITH LN

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

BEGIN STA. 29+50.00
END STA. 30+48.84

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

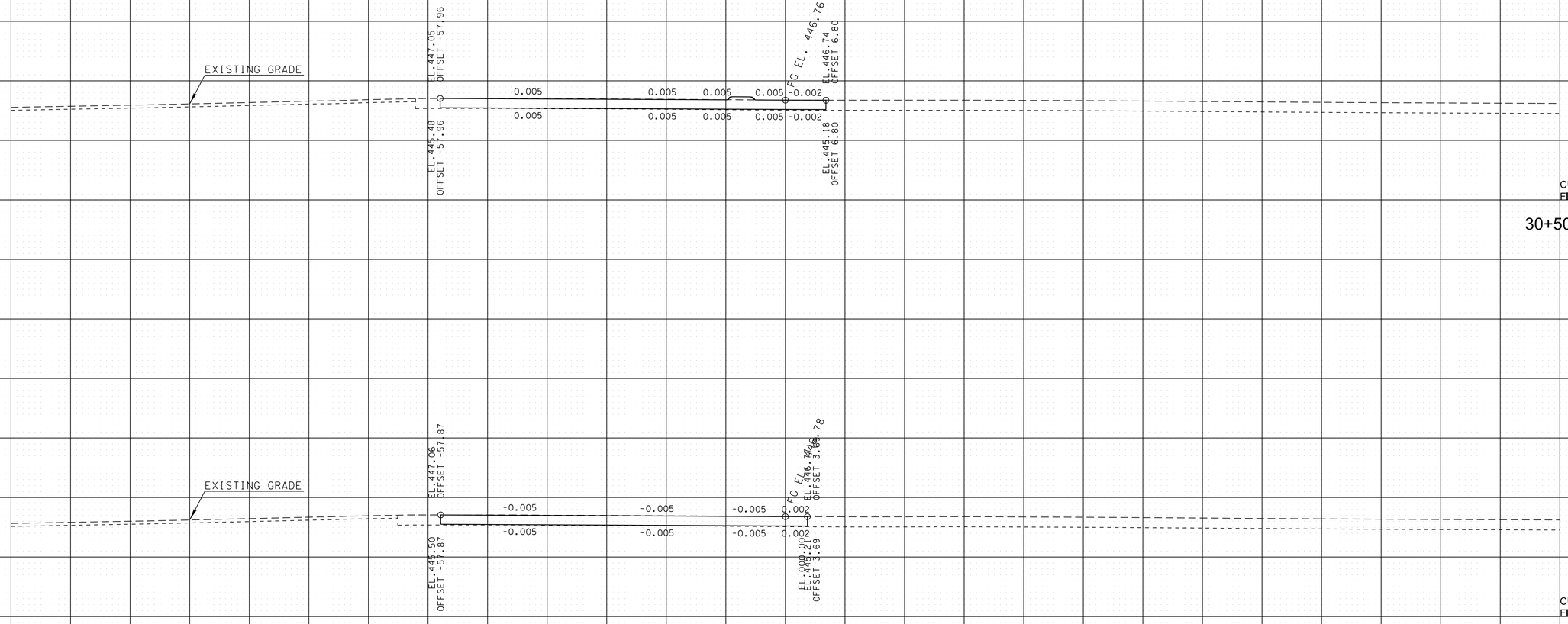
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	53
FUNCT.	2024	HSIP-22(91)	94
P.I.H.	2026	HSIP-22(91)	94
PS&E	2026	HSIP-22(91)	94

℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)



BEGIN LEFT ISLAND
S.R. 124/DR SMITH LN - STA. 30+49.47

S.R. 124/DR SMITH LN

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

BEGIN STA. 30+49.47
END STA. 30+50.00

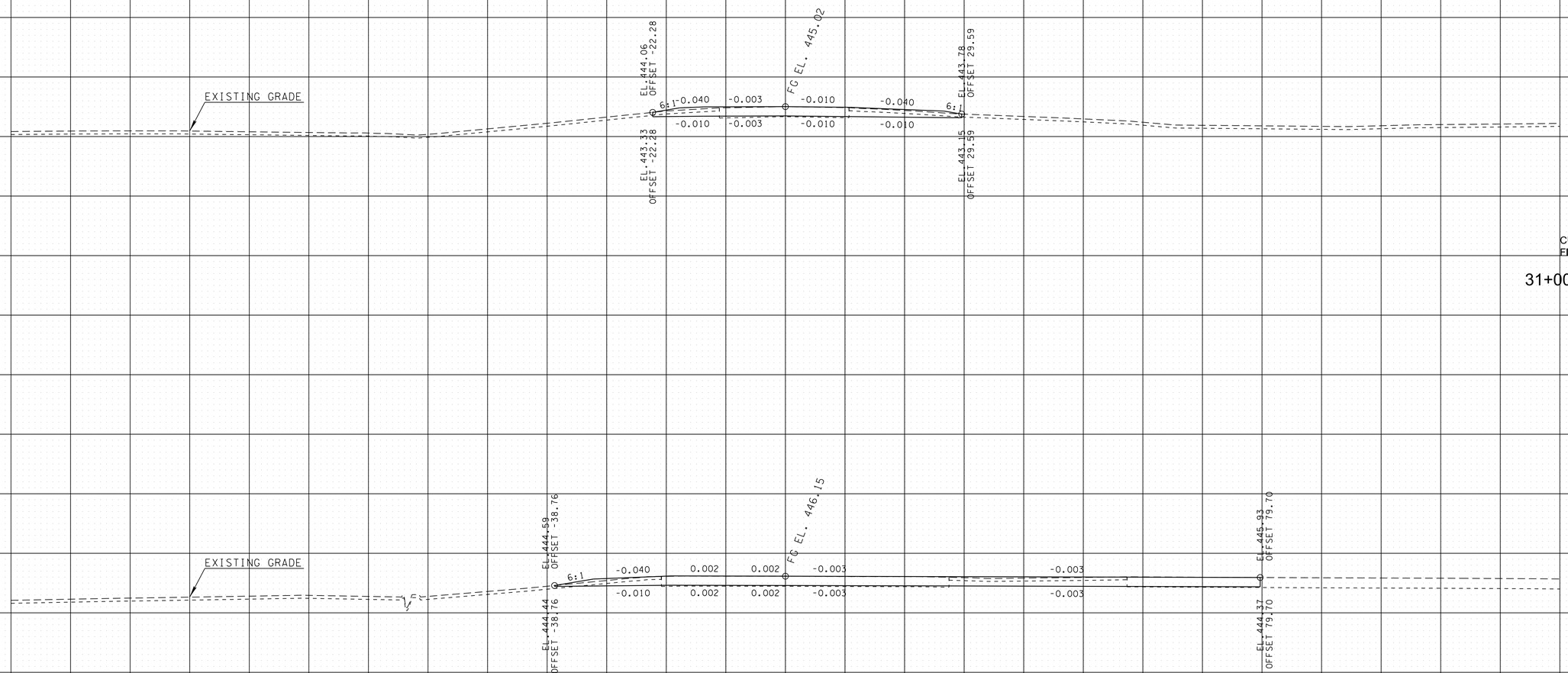
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	54
FUNCT.	2024	HSIP-22(91)	95
P.I.H.	2026	HSIP-22(91)	95
PS&E	2026	HSIP-22(91)	95

℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)



END LEFT ISLAND
S.R. 124/DR SMITH LN - STA. 30+70.54

S.R. 124/DR SMITH LN

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

BEGIN STA. 30+70.54
END STA. 31+00.00

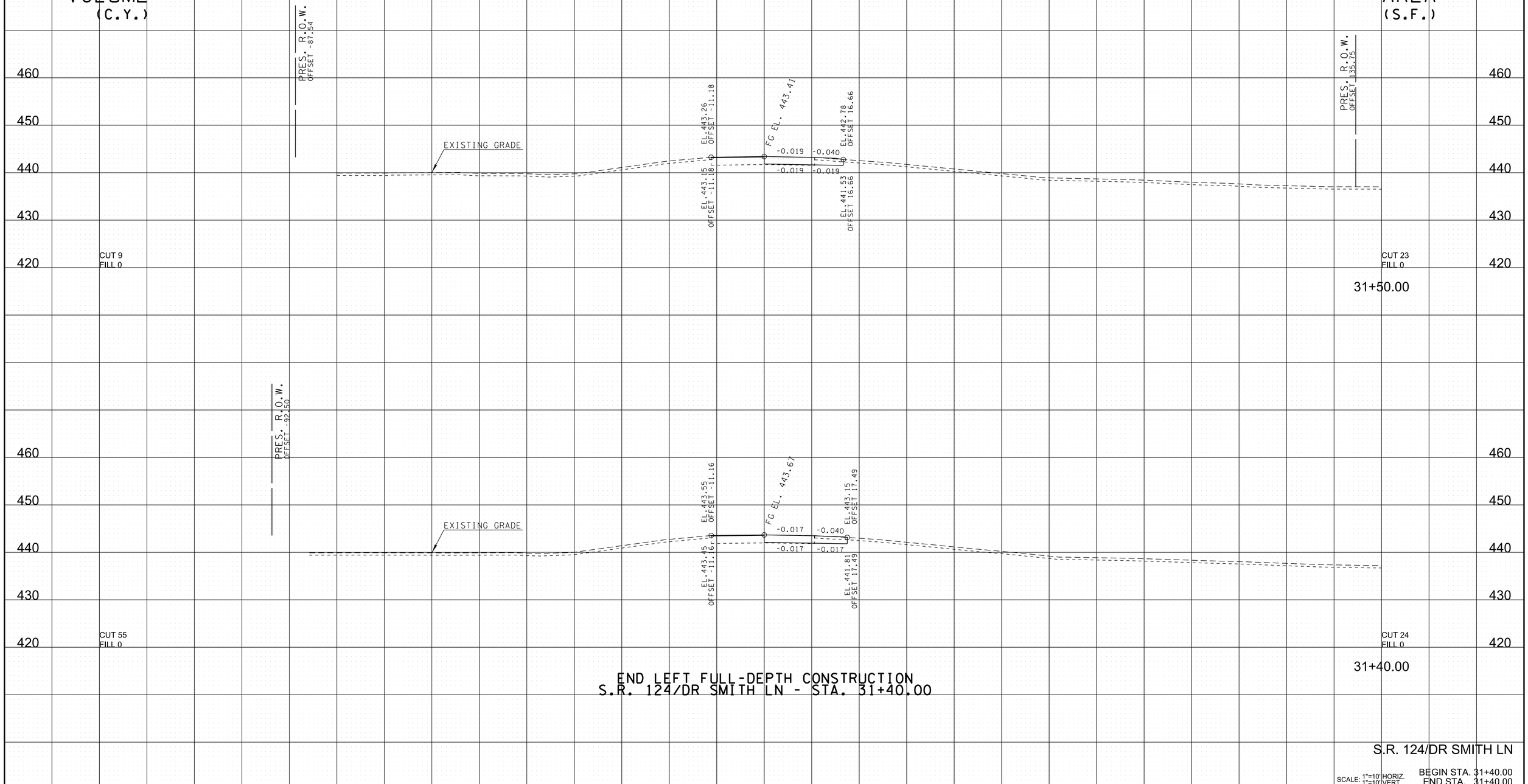
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	55
FUNCT.	2024	HSIP-22(91)	96
P.I.H.	2026	HSIP-22(91)	96
PS&E	2026	HSIP-22(91)	96

℄ S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)



END LEFT FULL-DEPTH CONSTRUCTION
S.R. 124/DR SMITH LN - STA. 31+40.00

S.R. 124/DR SMITH LN

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

BEGIN STA. 31+40.00
END STA. 31+40.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2022	HSIP-22(91)	56
FUNCT.	2024	HSIP-22(91)	97
P.I.H.	2026	HSIP-22(91)	97
PS&E	2026	HSIP-22(91)	97

℄
S.R. 124/DR SMITH LN

VOLUME (C.Y.)

AREA (S.F.)

460
450
440
430
420

EXISTING GRADE

CUT 0
FILL 0

CUT 0
FILL 0

31+80.00

PRES. R.O.W.
OFFSET -75.30

PRES. R.O.W.
OFFSET 112.12

EXISTING GRADE

CUT 19
FILL 0

CUT 18
FILL 0

31+75.00

END CONSTRUCTION
S.R. 124/DR SMITH LN - STA. 31+75.00
END WESTBOUND IMPROVEMENTS
MATCH EXISTING

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

S.R. 124/DR SMITH LN

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

BEGIN STA. 31+75.00
END STA. 31+80.00

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TENNESSEE D.O.T.

FILE NO.

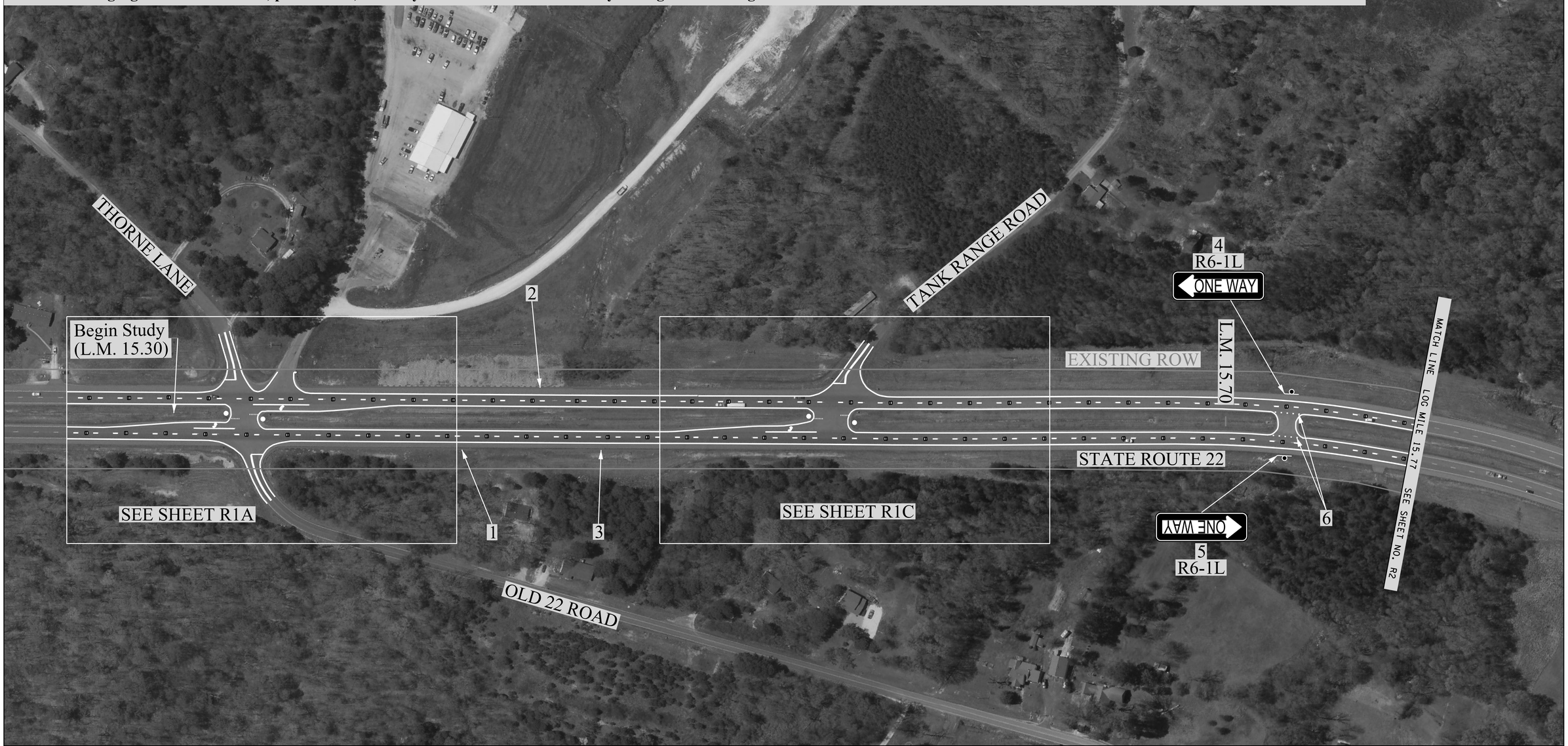
GUIDANCE

1. Install white continuous delineation enhancement on 685 feet of existing guardrail along the east side of State Route 22 from LM 15.33 to LM 15.41.
2. Install white continuous delineation enhancement on 780 feet of existing guardrail along the west side of State Route 22 from LM 15.34 to LM 15.49.
3. Install white continuous delineation enhancement on 230 feet of existing guardrail along the east side of State Route 22 from LM 14.44 to LM 15.49.
4. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 15.72 facing westbound traffic.
5. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 15.72 facing eastbound traffic.
6. Install 76 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 15.72 to LM 15.73

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R1



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

N

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

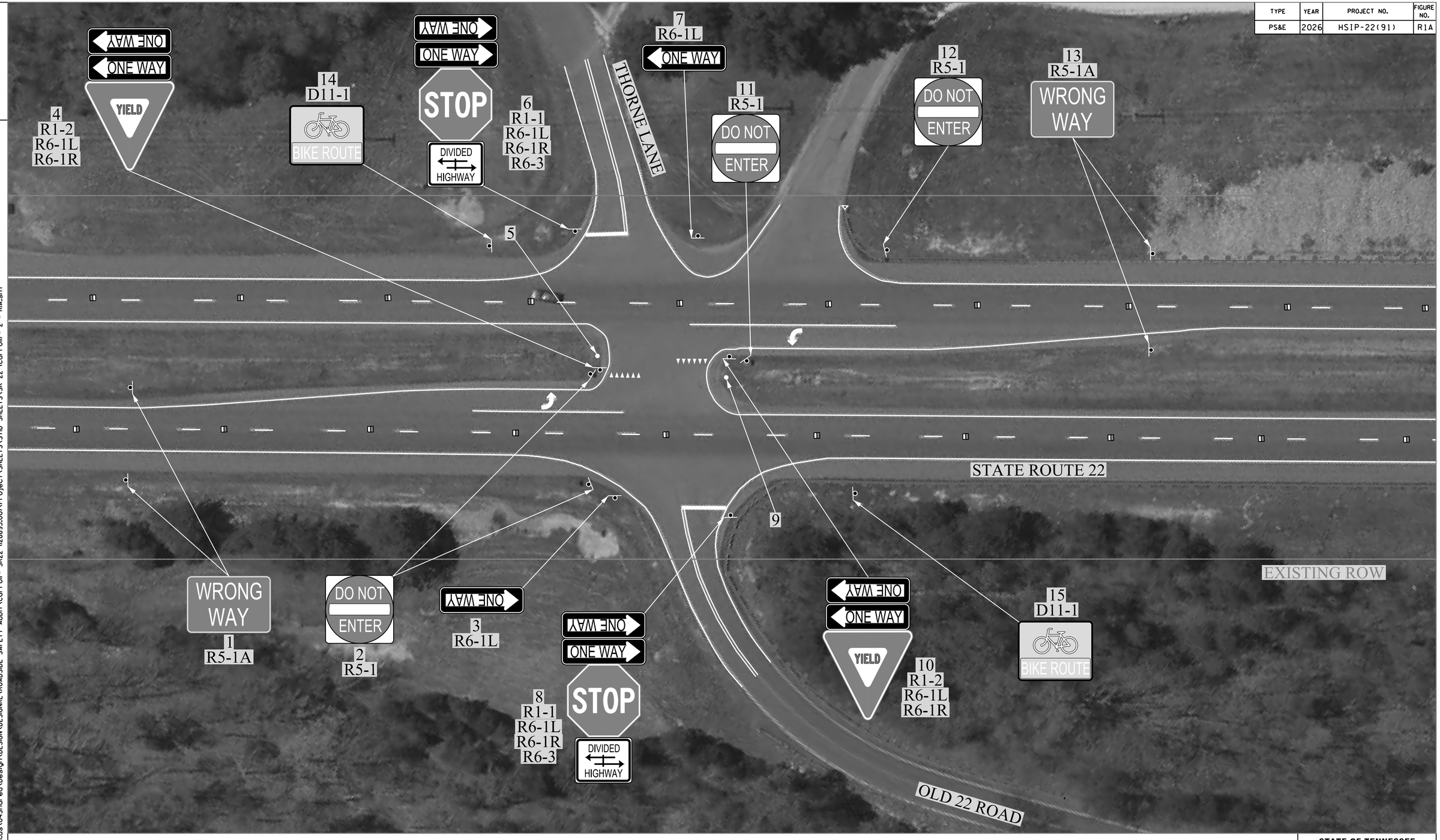
RSAR NO PLANS
CONTRACT DOCUMENTS
(INFO ONLY)
SHEET 1 OF 32

31-AUG-2026 11:26
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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R1A



0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R1B FOR FURTHER DETAILS

N

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

RSAR NO PLANS
CONTRACT DOCUMENTS
(INFO ONLY)
SHEET 2 OF 32

31-AUG-2026 11:28
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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R1B

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 15.27. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 15.32. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 15.32 facing eastbound traffic.
4. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 15.32. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
5. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.32
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing eastbound, one (1) Divided Highway (R6-3) (30"x24") sign facing eastbound, one (1) One Way (R6-1R) (48"x18") sign facing eastbound and one (1) One Way (R6-1L) (48"x18") sign facing westbound traffic on Thorne Lane at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on west side of State Route 22, directly across from and perpendicular to the median opening at LM 15.32 facing westbound traffic.
8. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, and one (1) Divided Highway (R6-3) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Old 22 Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
9. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.33.
10. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48'x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 15.33. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
11. Remove and replace one (1) Do Not Enter (R5-1) (36"x36") sign facing northbound, wrong way, traffic on the east side of the southbound approach of State Route 22 LM 15.32. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Remove and replace one (1) Do Not Enter (R5-1) (36"x36") sign facing northbound, wrong way, traffic on the west side of the southbound approach of State Route 22 at LM 15.33. Install red retroreflective strips along the sign posts (see Details Page R12).
13. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 15.38. Install red retroreflective strips along the sign posts (see Details Page R12).
14. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.
15. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

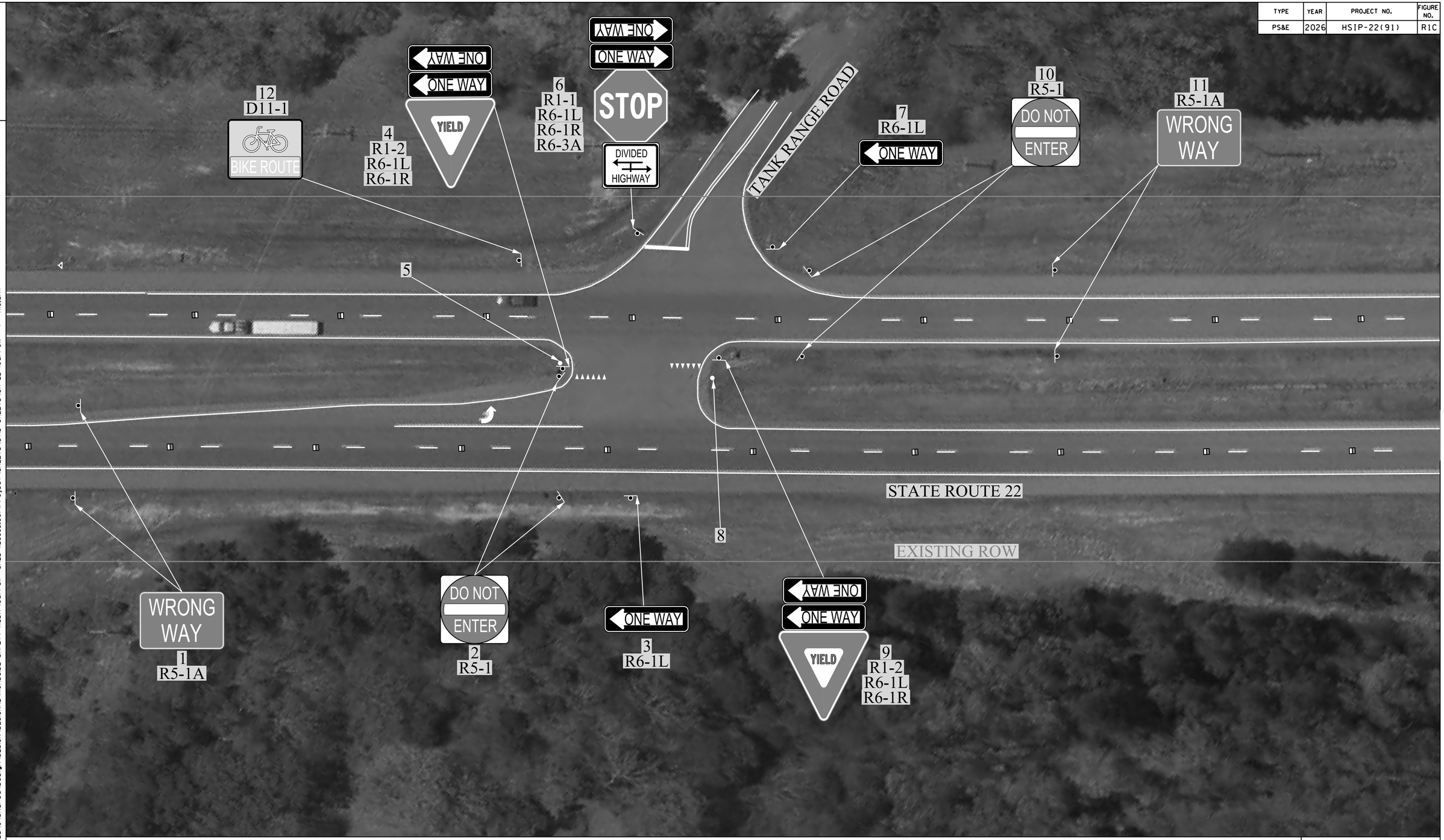
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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R1C



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R1D FOR FURTHER DETAILS

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R1D

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 15.27. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 15.32. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 15.32 facing eastbound traffic.
4. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 15.32. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
5. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.32.
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing eastbound, one (1) Divided Highway (R6-3a) (30"x24") sign facing eastbound, one (1) One Way (R6-1R) (48"x18") sign facing eastbound and one (1) One Way (R6-1L) (48"x18") sign facing westbound on Thorne Lane at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on west side of State Route 22, directly across from and perpendicular to the median opening at LM 15.32 facing westbound traffic.
8. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.33.
9. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 15.33. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
10. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 15.35. Install red retroreflective strips along the sign posts (see Details Page R12).
11. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 15.38. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

GUIDANCE

1. Install one (1) Type 38 End Terminals on the State Route southbound approach from LM 15.79 to LM 15.86. Install white continuous delineation enhancement on 375 feet of existing guardrail along the west side of State Route 22.
2. Install white continuous delineation enhancement on 360 feet of existing guardrail along the west side of State Route 22 from LM 15.79 to LM 15.85.
3. Remove and replace two (2) Speed Limit (55 MPH) (R2-1) (30"x36") signs on either side of State Route 22 facing southbound traffic at LM 16.10.
4. Remove and replace one (1) Speed Limit (65 MPH) (R2-1) (30"x36") sign on the east side of State Route 22 facing northbound traffic at LM 16.11.
5. Install white continuous delineation enhancement on 200 feet of existing guardrail along the east side of State Route 22 from LM 16.08 to LM 16.18.
6. Install white continuous delineation enhancement on 530 feet of existing guardrail along the west side of State Route 22 from LM 16.12 to LM 16.16.
7. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 16.19.
8. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 16.20 facing westbound traffic.
9. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 16.20 facing eastbound traffic.
10. Install 64 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 16.21 to LM 16.22.
11. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 16.20.
12. Remove and replace two (2) Reduced Speed Limit Ahead (55 MPH) (W3-5) (48"x48") signs facing southbound on State Route 22 at LM 16.25. Install a yellow retroreflective strip along the sign posts (see Details Page R12).

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R2



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

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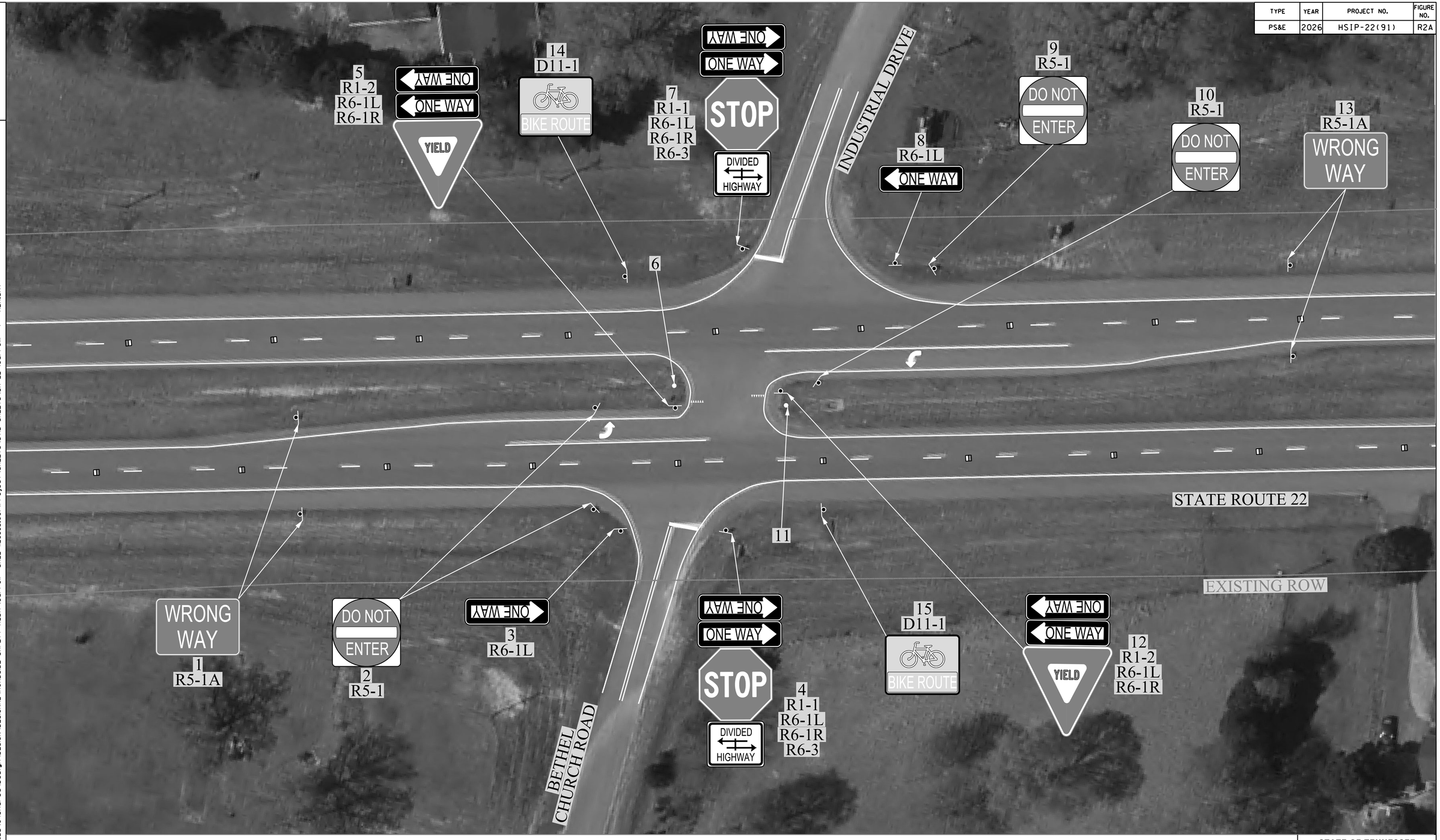
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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R2A



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R2B FOR FURTHER DETAILS

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TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R2B

TENNESSEE D.O.T.

FILE NO.

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 and LM 15.92. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 15.95. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on east side of State Route 22, directly across from and perpendicular to the median opening at LM 15.95 facing eastbound traffic.
4. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Bethel Church Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details page R12).
5. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 15.95. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
6. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.95.
7. Remove and replace one (1) sign assembly which includes one (1) Stop (R-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Industrial Drive at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
8. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 15.97 facing westbound traffic.
9. Remove and replace one (1) Do Not Enter (R5-1) (36"x36") sign facing northbound, wrong way, traffic on the west side of the southbound approach of State Route 22 at LM 16.00. Install red retroreflective strips along the sign post (see Details Page R12).
10. Remove and replace one (1) Do Not Enter (R5-1) (36"x36") sign facing northbound, wrong way, traffic on the east side of the southbound approach of State Route 22 at LM 15.98. Install red retroreflective strips along the sign post (see Details Page R12).
11. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 15.97.
12. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 15.97. Install a red retroreflective stip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
13. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 16.02. Install red retroreflective strips along the sign posts (see Details Page R12).
14. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"x18") sign facing southbound on the southbound approach of State Route 22.
15. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"x18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

GUIDANCE

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R3



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

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STATE OF TENNESSEE
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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R3A



0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R3B FOR FURTHER DETAILS

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R3B

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 16.42. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (North) (M3-1) (24"x12") sign facing northbound, one (1) State Route Marker (TN-6D) (30"x24") sign and one (1) Bike Route (D11-1) (24"x18") sign facing northbound on the east side of State Route 22 at LM 16.43.
3. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 16.45. Install red retroreflective strips along the sign post (see Details Page R12).
4. Remove and replace one (1) sign assembly which includes one (1) Yield (R2-1) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 16.45. Install a red retroreflective strip along the sign post (see Details page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
5. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 16.45
6. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (South) (M3-3) (24"x12") sign facing southbound, one (1) State Route Marker (TN-6D) (30"x24") sign and one (1) Bike Route (D11-1) (24"x18") sign facing southbound on the west side of State Route 22 at LM 16.43.
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 16.46 facing westbound traffic.
8. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 16.46. Install red retroreflective strips along the sign posts (see Details Page R12).
9. Remove and replace one (1) One Way (R6-1L (48"x18") sign onthe east side of State Route 22, directly across from and perpendicular to the median opening at LM 16.45 facing eastbound traffic.
10. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3A) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (36"x12") sign facing eastbound on Old 22 Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
11. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 16.46.
12. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 16.46. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
13. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 16.51. Install red retroreflective strips along the sign posts (see Details Page R12).

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

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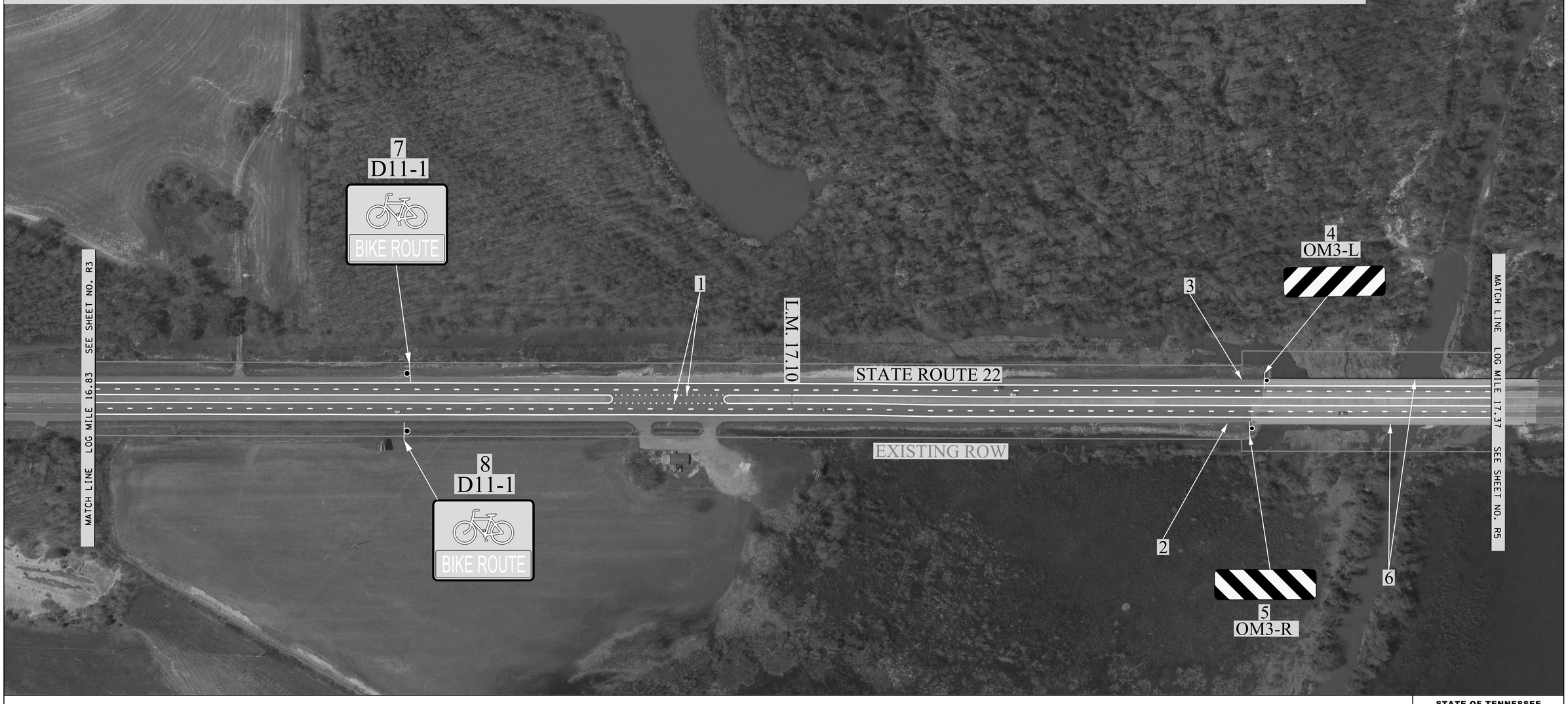
GUIDANCE

1. Install 243 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 17.03 to LM 17.08.
2. Install one (1) Type 38 End Terminals on the State Route 22 northbound approach from LM 17.26 to LM 17.28. Install white continuous delineation enhancement on 75 feet of existing guardrail along the east side of State Route 22.
3. Install white continuous delineation enhancement on 85 feet of existing guardrail along the west side of State Route 22 from LM 17.27 to LM 17.28.
4. Remove and replace one (1) Type 3 Object Marker on the west side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-L) (12”x36”) total] at LM 17.28.
5. Remove and replace one (1) Type 3 Object Marker on the east side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-R) (12”x36”) total] at LM 17.28.
6. Install 560 feet of barrier wall delineation enhancement on both sides of the existing bridge on State Route 22 at LM 17.30.
7. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.
8. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R4



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

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STATE OF TENNESSEE
DEPARTMENT OF
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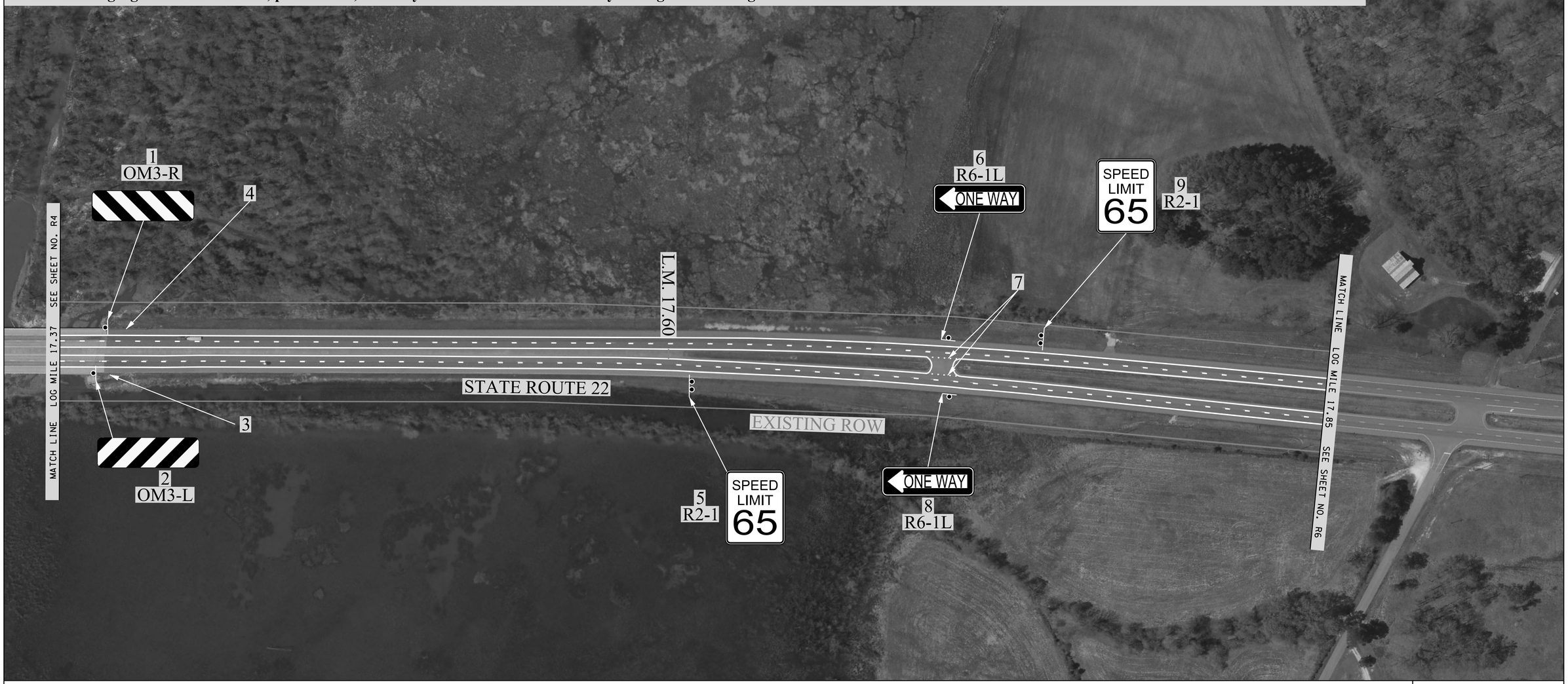
GUIDANCE

1. Remove and replace one (1) Type 3 Object Marker on the west side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-R) (12”x36”) total] at LM 17.39.
2. Remove and replace one (1) Type 3 Object Marker on the east side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-L) (12”x36”) total] at LM 17.39.
3. Install one (1) Type 13 End Terminal on the State Route 22 Northbound departure from LM 17.37 to LM 17.38. Install white continuous delineation enhancement on 23 feet of proposed guardrail along the east side of State Route 22.
4. Install white continuous delineation enhancement on 75 feet of existing guardrail along the west side of State Route 22 from LM 17.38 to LM 17.40.
5. Remove and replace one (1) Speed Limit (65 MPH) (R2-1) (36"x48") sign on the east side of State Route 22 northbound at LM 17.61.
6. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 18.70 facing westbound traffic.
7. Install 71 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 17.70 to LM 17.71.
8. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 17.70 facing eastbound traffic.
9. Remove and replace one (1) Speed Limit (65 MPH) (R2-1) (30"x36") sign on the west side of State Route 22 southbound at LM 17.74.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R5



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

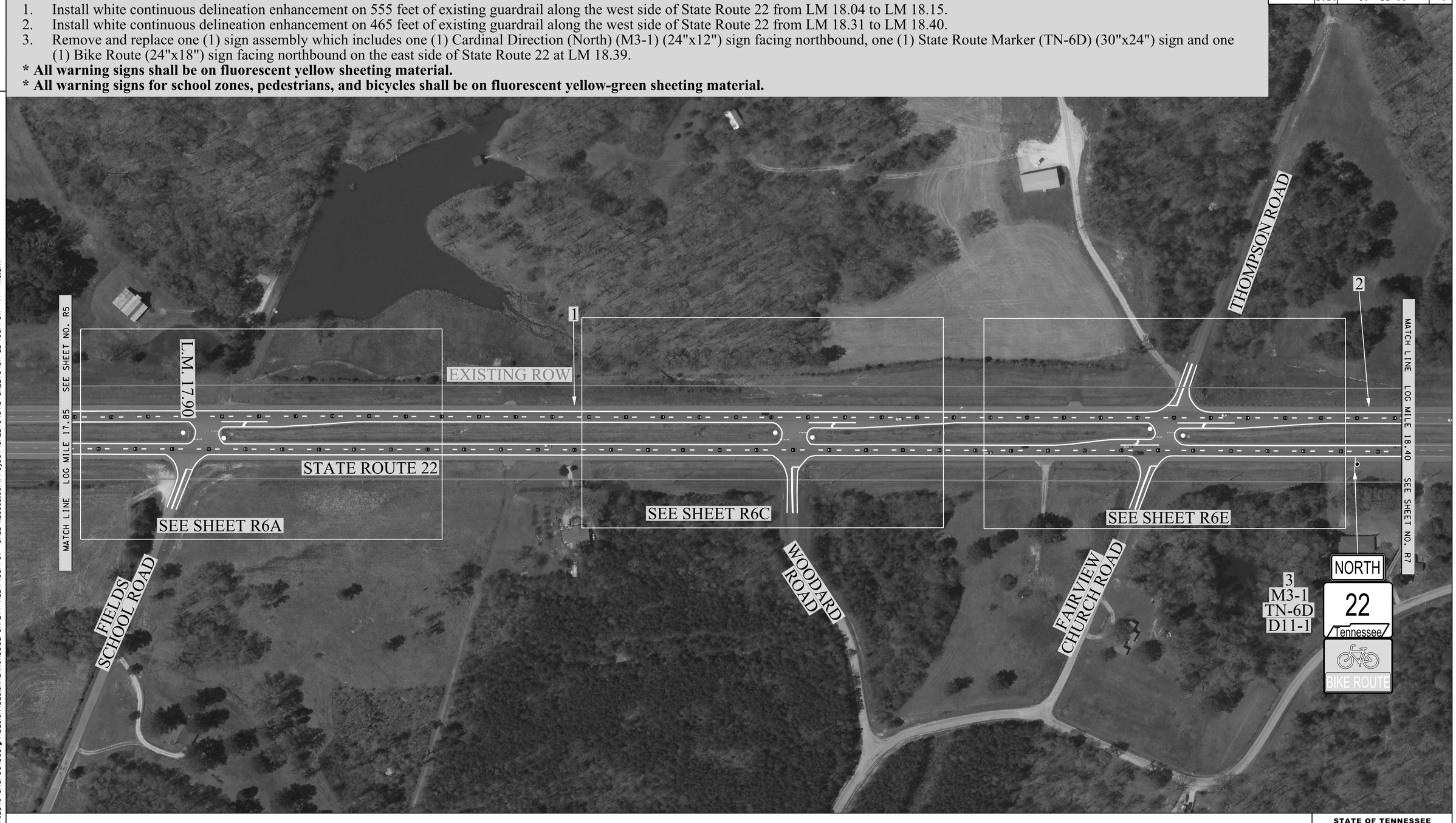
GUIDANCE

1. Install white continuous delineation enhancement on 555 feet of existing guardrail along the west side of State Route 22 from LM 18.04 to LM 18.15.
2. Install white continuous delineation enhancement on 465 feet of existing guardrail along the west side of State Route 22 from LM 18.31 to LM 18.40.
3. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (North) (M3-1) (24"x12") sign facing northbound, one (1) State Route Marker (TN-6D) (30"x24") sign and one (1) Bike Route (24"x18") sign facing northbound on the east side of State Route 22 at LM 18.39.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

N

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6A

1 R5-1A WRONG WAY

2 R5-1 DO NOT ENTER

3 R6-1L ONE WAY

4

5 R1-2 R6-1L R6-1R YIELD ONE WAY

6 R1-1 R6-1L R6-1R R6-3A STOP DIVIDED HIGHWAY ONE WAY

7

8 R1-2 R6-1L R6-1R YIELD ONE WAY

9 R6-1L ONE WAY

10 R5-1 DO NOT ENTER

11 R5-1A WRONG WAY

12 D11-1 BIKE ROUTE

STATE ROUTE 22

EXISTING ROW

FIELDS SCHOOL ROAD

0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R6B FOR FUTHER DETAILS

N

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

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TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6B

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 17.86. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 17.90. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular in the median opening at LM 17.89 facing eastbound traffic.
4. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 17.90.
5. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 17.90. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3a) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Fields School Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 17.91.
8. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 17.91. Install red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
9. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 17.90 facing westbound traffic.
10. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 17.91. Install red retroreflective strips along the sign posts (see Details Page R12).
11. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 17.94. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) sign assembly which inlcudes one (1) Bike Route (D11-1) (24"x18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6C

EXISTING ROW

STATE ROUTE 22

1 R5-1A — WRONG WAY

2

3 R1-2 R6-1L R6-1R — YIELD

4 R5-1 — DO NOT ENTER

5 R6-1L — ONE WAY

WOODARD ROAD

6 R1-1 R6-1L R6-1R R6-3A — STOP / DIVIDED HIGHWAY

7

8 R1-2 R6-1L R6-1R — YIELD

9 R6-1L — ONE WAY

10 R5-1 — DO NOT ENTER

11 R5-1A — WRONG WAY

12 D11-1 — BIKE ROUTE

0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R6D FOR FURTHER DETAILS

N

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6D

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 18.11. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 18.14
3. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 18.14. Install a red retroreflective strip along the sign post (see Details Page). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
4. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 18.14. Install red retroreflective strips along the sign posts (see Details Page R12).
5. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on east side of State Route 22, directly across from and perpendicular to the median opening at LM 18.14 facing eastbound traffic.
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3a) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Woodard Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 18.16.
8. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 18.16. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
9. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on west side of State Route 22, directly across from and perpendicular to the median opening at LM 18.15 facing westbound traffic.
10. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 18.16. Install red retroreflective strips along the sign posts (see Details Page R12).
11. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 18.16. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6E

1 M3-3 TN-6D SOUTH 22 Tennessee

5 R1-2 R6-1L R6-1R ONE WAY ONE WAY YIELD

15 D11-1 BIKE ROUTE

9 R1-1 R6-3 R6-1L R6-1R ONE WAY ONE WAY STOP DIVIDED HIGHWAY

THOMPSON ROAD

10 R6-1L ONE WAY

11 R5-1 DO NOT ENTER

14 R5-1A WRONG WAY

6

STATE ROUTE 22

2 R5-1A WRONG WAY

3 R5-1 DO NOT ENTER

4 R6-1L ONE WAY ONE WAY

FAIRVIEW CHURCH ROAD

7 R1-1 R6-1L R6-1R R6-3 ONE WAY ONE WAY STOP DIVIDED HIGHWAY

16 D11-1 BIKE ROUTE

8 R1-2 R6-1L R6-1R ONE WAY ONE WAY YIELD

12

13

EXISTING ROW

0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R6F FOR FURTHER DETAILS

N

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

RSAR NO PLANS
CONTRACT DOCUMENTS
(INFO ONLY)
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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R6F

GUIDANCE

1. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (South) (M3-3) (24"x12") sign facing southbound and one (1) State Route Marker (TN-6D) (30"x24") sign facing southbound on the west side of State Route 22 at LM 17.86.
2. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 18.28. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 18.30. Install red retroreflective strips along the sign posts (see Details Page R12).
4. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on east side of State Route 22, directly across from and perpendicular to the median opening at LM 18.29 facing eastbound traffic.
5. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 18.30. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
6. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 18.30.
7. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Fairview Church Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
8. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 18.31. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
9. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing eastbound, one (1) Divided Highway (R6-3) (30"x24") sign facing eastbound, one (1) One Way (R6-1R) (48"x18") sign facing eastbound and one (1) One Way (R6-1L) (48"x18") sign facing westbound on Thompson Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
10. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on west side of State Route 22, directly across from and perpendicular to the median opening at LM 18.31 facing westbound traffic.
11. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 18.32. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 18.32.
13. Install white continous delineation enhancement on 180 feet of existing guardrail along the east side of State Route 22 LM 18.30 to LM 18.34.
14. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 18.34. Install red retroreflective strips along the sign posts (see Details Page R12).
15. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.
16. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

RSAR NO PLANS
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TENNESSEE D.O.T.

FILE NO.

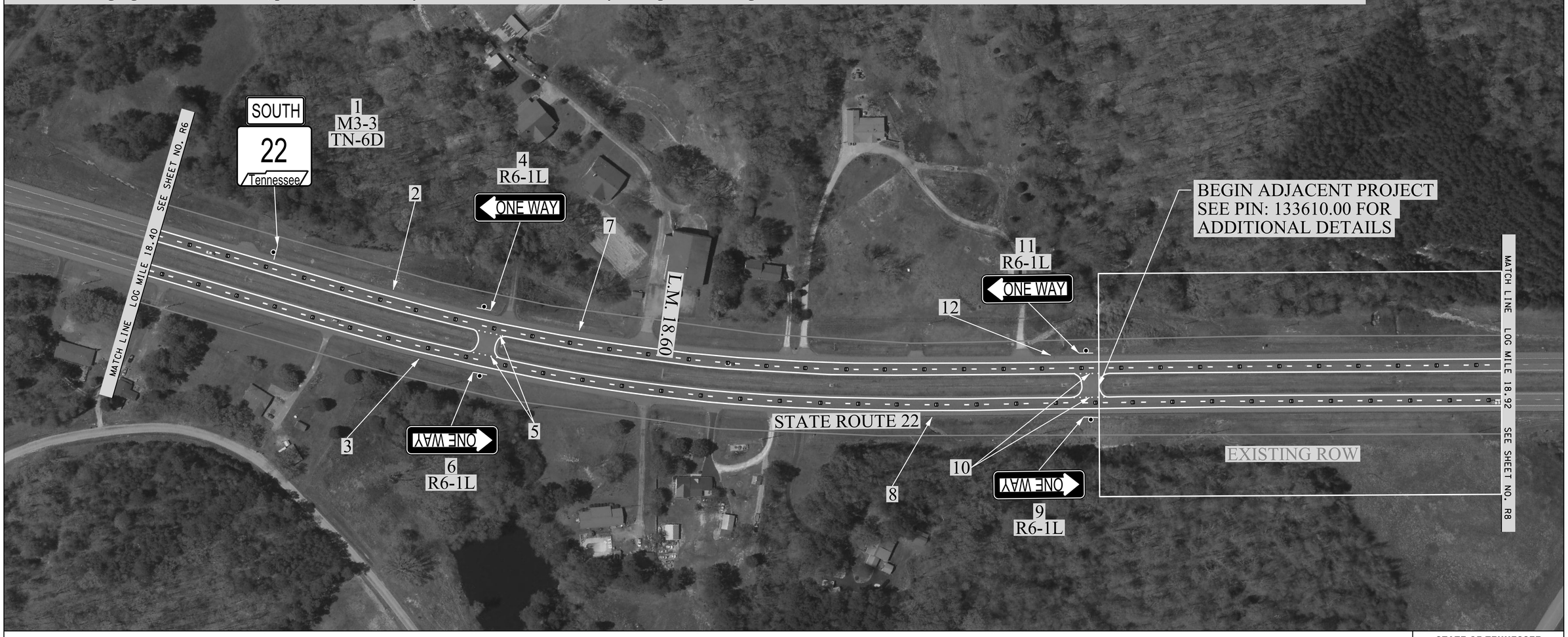
GUIDANCE

1. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (South) (M3-3) (24"x12") sign facing southbound and one (1) State Route Marker (TN-6D) (30"x24") sign facing southbound on the west side of State Route 22 at LM 18.44.
2. Install white continuous delineation enhancement on 275 feet of existing guardrail along the west side of State Route 22 from LM 18.48 to LM 18.53.
3. Install white continuous delineation enhancement on 180 feet of existing guardrail along the east side of State Route 22 from LM 18.49 to LM 18.52.
4. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 18.53 facing westbound traffic.
5. Install 69 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 18.53 to LM 18.54.
6. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 18.53 facing eastbound traffic.
7. Install white continuous delineation enhancement on 240 feet of existing guardrail along the west side of State Route 22 LM 18.54 to LM 18.58.
8. Install white continuous delineation enhancement on 550 feet of existing guardrail along the east side of State Route 22 from LM 18.70 to LM 18.81.
9. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 18.76 facing eastbound traffic.
10. Install 83 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 18.76 to LM 18.77.
11. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 18.76 facing westbound traffic.
12. Install white continuous delineation enhancement on 375 feet of existing guardrail along the west side of State Route 22 from LM 18.75 to LM 18.82.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R7



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

N

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

RSAR NO PLANS
CONTRACT DOCUMENTS
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TENNESSEE D.O.T.

FILE NO.

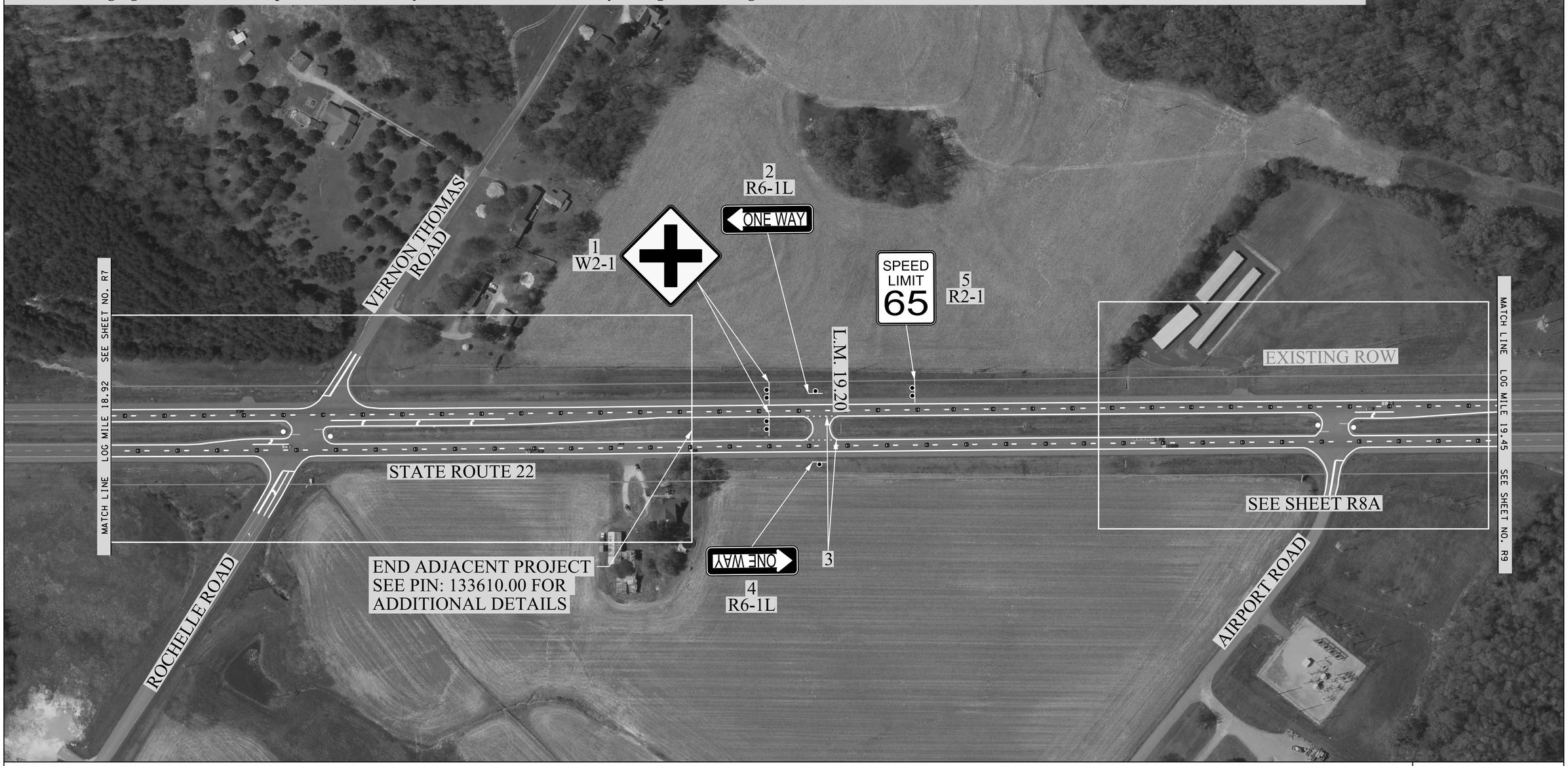
GUIDANCE

1. Remove and replace two (2) Cross Road (W2-1) (48"x48") signs on both sides of State Route 22 southbound at LM 19.17.
2. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 19.20 facing westbound traffic.
3. Install 75 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 19.19 to LM 19.20.
4. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 19.20 facing eastbound traffic.
5. Remove and replace one (1) Speed Limit (65 MPH) (R2-1) (30"x36") sign facing southbound on State Route 22 at LM 19.23.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R8



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

N

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RSAR NO PLANS
CONTRACT DOCUMENTS
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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R8A



0′ 50′ 100′ 150′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R8B FIR FURTHER DETAILS

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

RSAR NO PLANS
CONTRACT DOCUMENTS
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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R8B

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 19.35. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 19.38. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48x"48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound in the median opening at LM 19.38. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
4. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 19.38.
5. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 19.38 facing eastbound traffic.
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3a) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Airport Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 19.39 facing westbound traffic.
8. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 19.40. Install red retroreflective strips along the sign posts (see Details Page R12).
9. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 19.40.
10. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 19.40. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
11. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 19.43. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

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TENNESSEE D.O.T.

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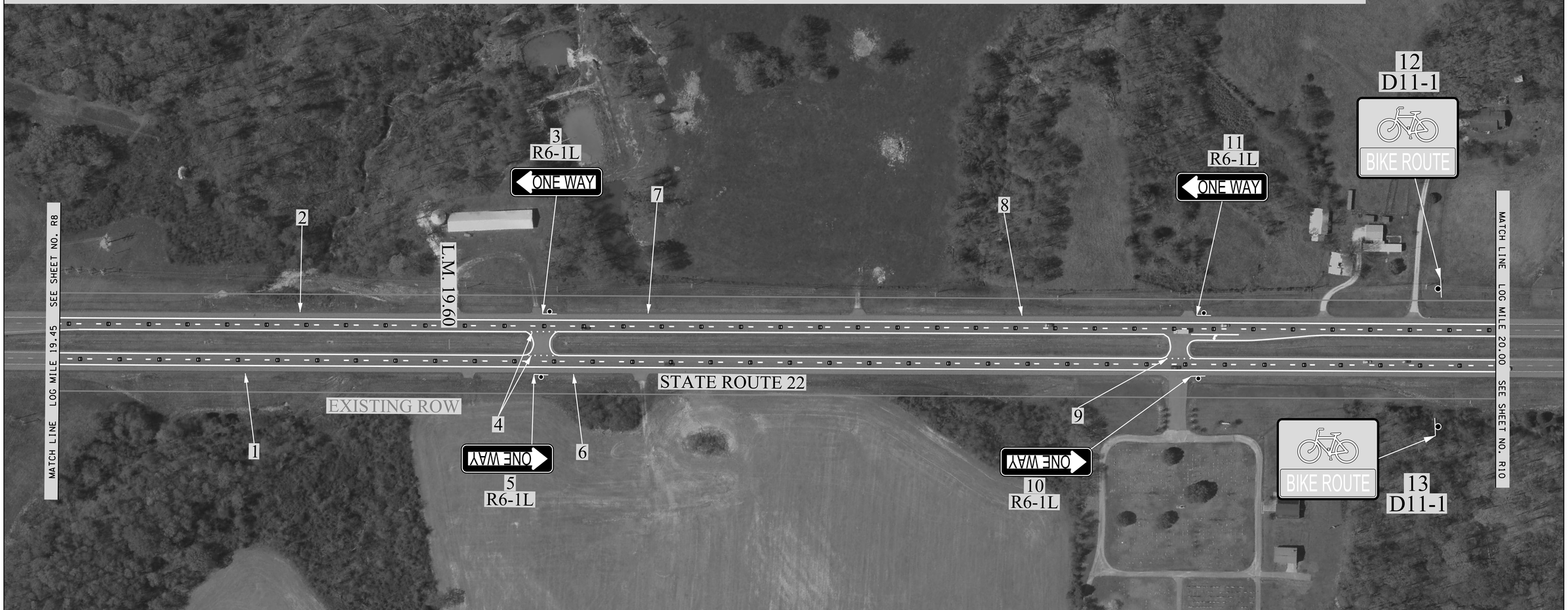
GUIDANCE

1. Install white continuous delineation enhancement on 275 feet of existing guardrail along the east side of State Route 22 from LM 19.48 to LM 19.54.
2. Install white continuous delineation enhancement on 350 feet of existing guardrail along the west side of State Route 22 from LM 19.51 to LM 19.58.
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 19.64 facing westbound traffic.
4. Install 70 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 19.63 to LM 19.64.
5. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 19.64 facing eastbound traffic.
6. Install white continuous delineation enhancement on 124 feet of existing guardrail along the east side of State Route 22 from LM 19.64 to LM 19.66.
7. Install one (1) Type 38 End Terminal on the State Route 22 southbound approach from LM 19.64 to LM 19.73. Install white continuous delineation enhancement on 478 feet of existing guardrail along the west side of State Route 22.
8. Install white continuous delineation enhancement on 305 feet of existing guardrail along the west side of State Route 22 from LM 19.78 to LM 19.84.
9. Install 70 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 19.88 to LM 19.89.
10. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 19.89 facing eastbound traffic.
11. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 19.89 facing westbound traffic.
12. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.
13. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R9



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

GUIDANCE

1. Install white continuous delineation enhancement on 400 feet of existing guardrail along the east side of State Route 22 from LM 20.04 to LM 20.12.
2. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 20.13 facing eastbound traffic.
3. Install 67 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 20.12 to LM 20.13.
4. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 20.13 facing westbound traffic.
5. Install white continuous delineation enhancement on 655 feet of existing guardrail along the west side of State Route 22 from LM 20.10 to LM 20.23.
6. Install white continuous delineation enhancement on 125 feet of existing guardrail along the east side of State Roue 22 from LM 20.20 to LM 20.22.
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 20.38 facing eastbound traffic.
8. Install 75 feet of enhanced flatline thermoplastic 6" single broken yellow edgelines on State Route 22 through the median opening from LM 20.38 to LM 20.39.
9. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 20.38 facing westbound traffic.
10. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (South) (M3-3) (24"x12") sign facing southbound and one (1) State Route Marker (TN-6D) (30"x24") sign facing southbound on the west side of State Route 22 at LM 20.44.
11. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (North) (M3-1) (24"x12") sign facing northbound and one (1) State Route Marker (TN-6D) (30"x24") sign facing northbound on the east side of State Route 22 at LM 20.44.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R10



0′ 200′ 400′ 600′

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.

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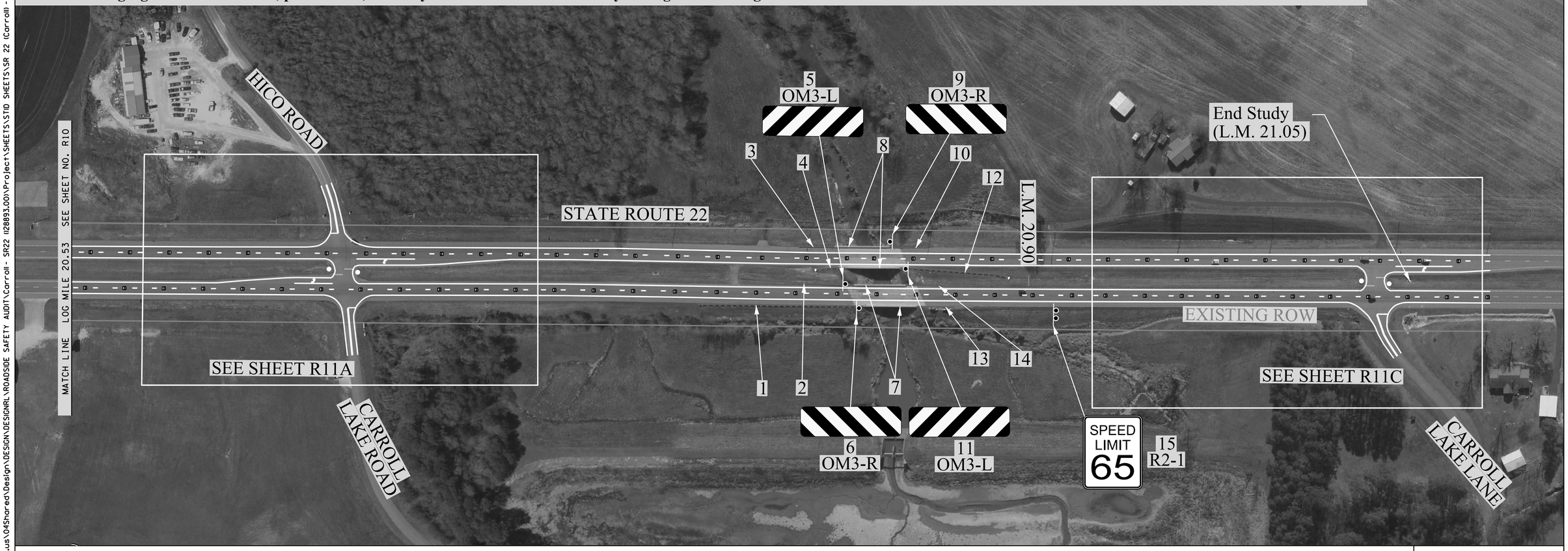
GUIDANCE

1. Install white continuous delineation enhancement on 330 feet of existing guardrail along the east side of State Route 22 from LM 20.7 to LM 20.83.
2. Install one (1) Type 38 End Terminals on the State Route 22 northbound approach from LM 20.79 to LM 20.83. Install white continuous delineation enhancement on 230 feet of existing guardrail along the east side of median of State Route 22.
3. Install white continuous delineation enhancement on 70 feet of existing guardrail along the east side of median of State Route 22 from LM 20.81 to LM 20.82.
4. Install white continuous delineation enhancement on 55 feet of existing guardrail along the west side of median of State Route 22 from LM 20.81 to LM 20.82.
5. Remove and replace one (1) Type 3 Object Marker on the west side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-L) (12”x36”) total] at LM 20.83.
6. Remove and replace one (1) Type 3 Object Marker on the east side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-R) (12”x36”) total] at LM 20.84.
7. Install 105 feet of barrier wall delineation enhancement on both sides of the existing bridge on State Route 22 northbound at LM 20.84.
8. Install 115 feet of barrier wall delineation enhancement on both sides of the existing bridge on State Route 22 southbound at LM 20.84.
9. Remove and replace one (1) Type 3 Object Marker on the west side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-R) (12”x36”) total] at LM 20.85.
10. Install white continuous delineation enhancement on 75 feet of existing guardrail along the west side of State Route 22 from LM 20.85 to LM 20.86.
11. Remove and replace one (1) Type 3 Object Marker on the east side of State Route 22 on one side of the existing bridge [one (1) Type 3 Object Marker (OM3-L) (12”x36”) total] at LM 20.86.
12. Install white continuous delineation enhancement on 220 feet of existing guardrail along the west side of median of State Route 22 from LM 20.85 to LM 20.90.
13. Install one (1) Type 13 End Terminal on the State Route 22 Northbound departure from LM 20.86 to LM 20.87. Install white continuous delineation enhancement on 23 feet of proposed guardrail along the east side of State Route 22.
14. Install one (1) Type 13 End Terminal on the State Route 22 Northbound departure from LM 20.86 to LM 20.87. Install white continuous delineation enhancement on 23 feet of proposed guardrail along the east side of State Route 22.
15. Remove and replace one (1) Speed Limit (65 MPH) (R2-1) (30"x36") sign facing southbound on the east side of State Route 22 at LM 20.91.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R11



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

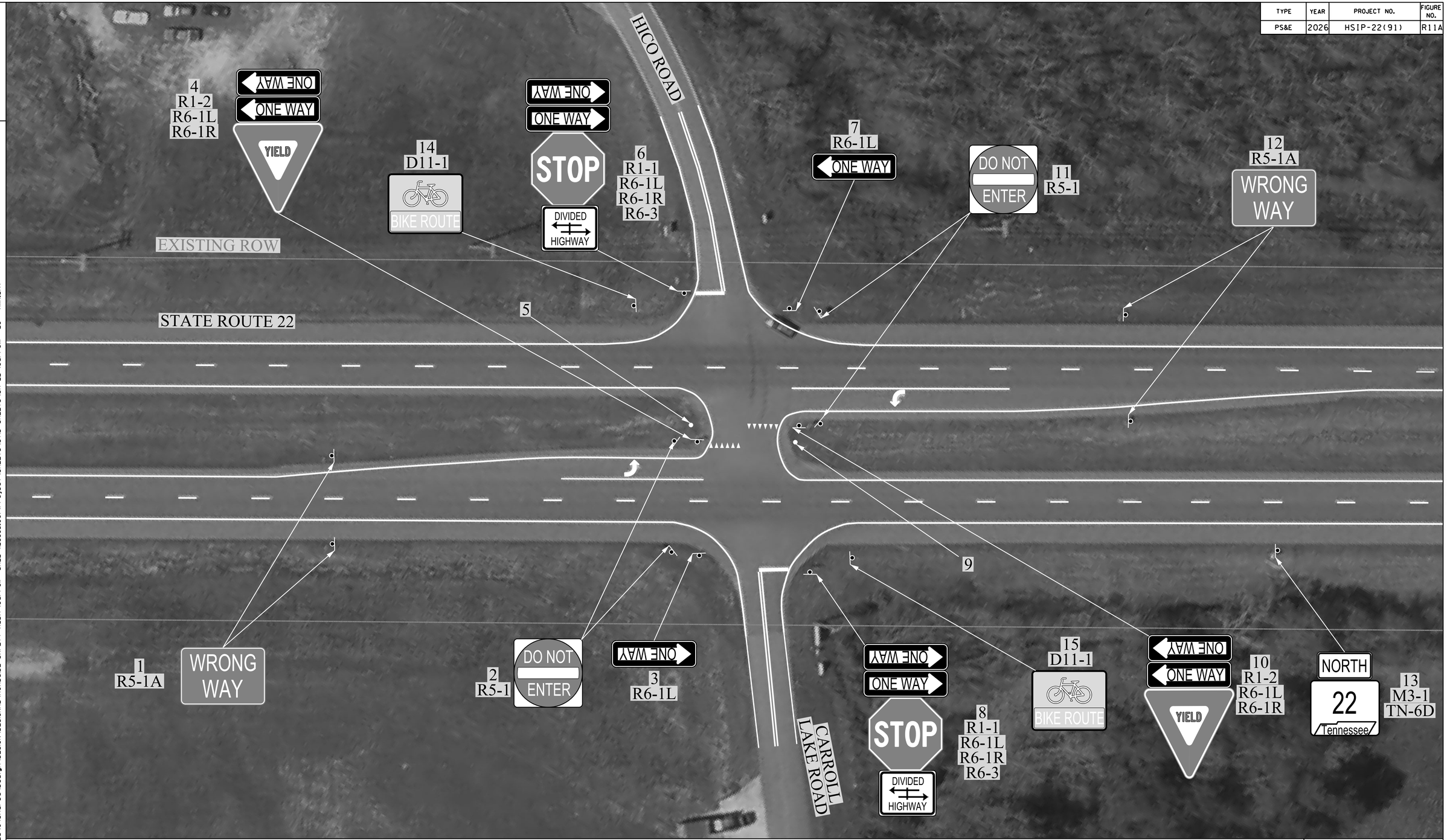
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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R11A



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R11B FOR FURTHER DETAILS

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R11B

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 20.59. Install red retroreflective strips along the sign posts (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 20.63. Install red retroreflective strips along the sign posts (see Details Page R12).
3. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 20.63 facing eastbound traffic.
4. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound traffic in the median opening at LM 20.63. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
5. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 20.63.
6. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing eastbound, one (1) Divided Highway (R6-3) (30"x24") sign facing eastbound, one (1) One Way (R6-1R) (48"x18") sign facing eastbound and one (1) One Way (R6-1L) (48"x18") sign facing westbound on Hico Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
7. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly acrros from and perpendicular to the median opening at LM 20.64 facing westbound traffic.
8. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Carroll Lake Road at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
9. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 20.64.
10. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 20.64. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
11. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 20.64. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 20.68. Install red retroreflective strips along the sign posts (see Details Page R12).
13. Remove and replace one (1) sign assembly which includes one (1) Cardinal Direction (North) (M3-1) (24"x12") sign facing northbound and one (1) State Route Marker (TN-6D) (30"x24") sign facing northbound on the east side of State Route 22 at LM 20.69.
14. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing southbound on the southbound approach of State Route 22.
15. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**
*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

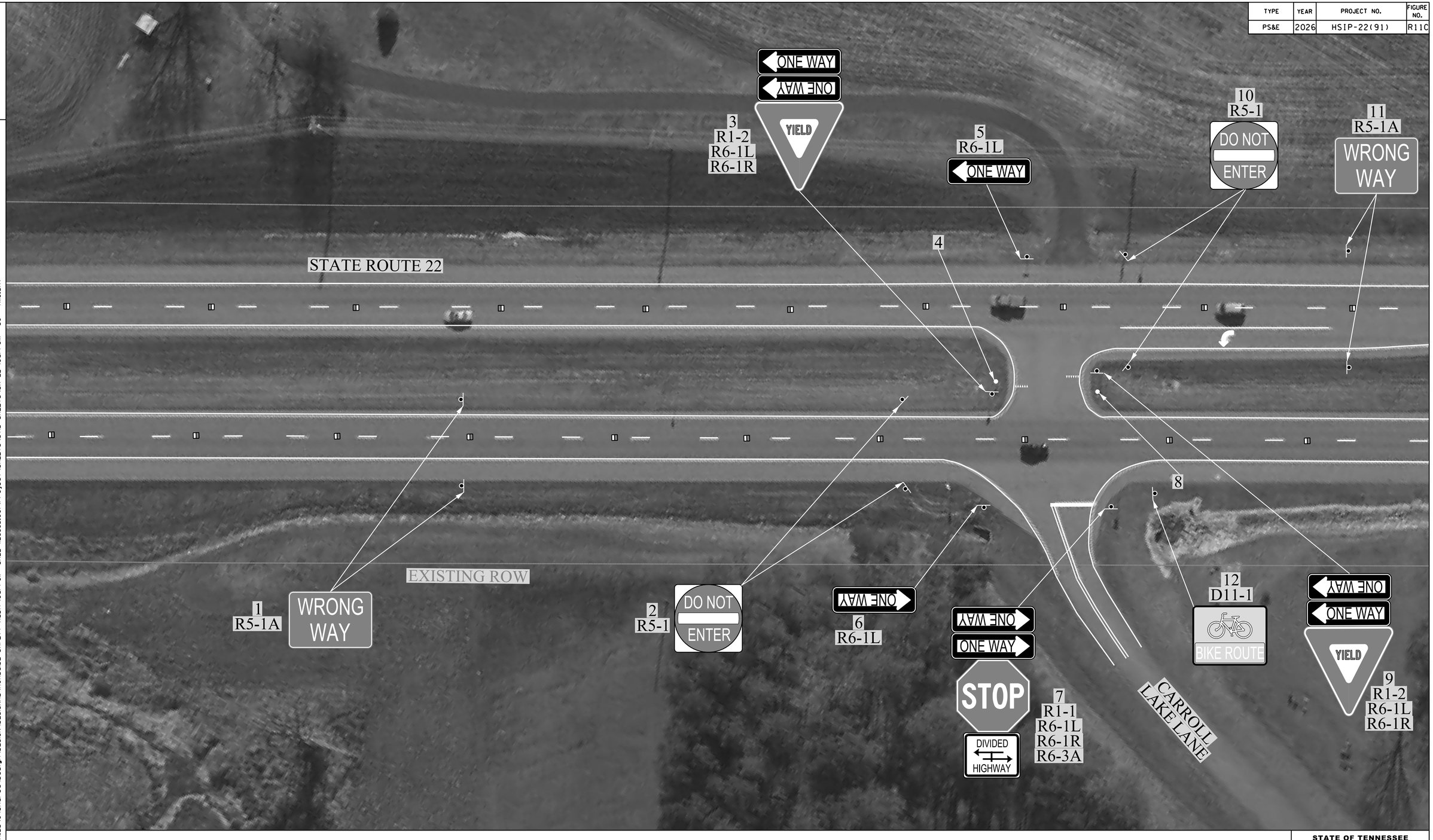
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TENNESSEE D.O.T.

FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R11C



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ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY
SEE SHEET R11D FOR FURTHER DETAILS

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TENNESSEE D.O.T.	FILE NO.

TYPE	YEAR	PROJECT NO.	FIGURE NO.
PS&E	2026	HSIP-22(91)	R11D

GUIDANCE

1. Remove and replace two (2) Wrong Way (R5-1a) (42"x20") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 20.99. Install red retroreflective strips along the sign post (see Details Page R12).
2. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing southbound, wrong way, traffic on either side of the northbound approach of State Route 22 at LM 21.03. Install red retroreflective strips along the sign post (see Details Page R12).
3. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing eastbound, one (1) One Way (R6-1L) (48"x18") sign facing eastbound and one (1) One Way (R6-1R) (48"x18") sign facing westbound traffic in the median opening at LM 21.03. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
4. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 21.03.
5. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the west side of State Route 22, directly across from and perpendicular to the median opening at LM 21.03 facing westbound traffic.
6. Remove and replace one (1) One Way (R6-1L) (48"x18") sign on the east side of State Route 22, directly across from and perpendicular to the median opening at LM 21.03 facing eastbound traffic.
7. Remove and replace one (1) sign assembly which includes one (1) Stop (R1-1) (36"x36") sign facing westbound, one (1) Divided Highway (R6-3a) (30"x24") sign facing westbound, one (1) One Way (R6-1R) (48"x18") sign facing westbound and one (1) One Way (R6-1L) (48"x18") sign facing eastbound on Carroll Lake Lane at the intersection with State Route 22. Install a red retroreflective strip along the sign post (see Details Page R12).
8. Install one (1) bi-directional flexible white delineator at the location shown within the median of State Route 22 at LM 21.04.
9. Remove and replace one (1) sign assembly which includes one (1) Yield (R1-2) (48"x48"x48") sign facing westbound, one (1) One Way (R6-1L) (48"x18") sign facing westbound and one (1) One Way (R6-1R) (48"x18") sign facing eastbound in the median opening at LM 21.04. Install a red retroreflective strip along the sign post (see Details Page R12). Install a thermoplastic yield line consisting of six (6) 16"x24" triangles with a 12" space between each.
10. Remove and replace two (2) Do Not Enter (R5-1) (36"x36") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 21.04. Install red retroreflective stips along the sign posts (see Details Page R12).
11. Remove and replace two (2) Wrong Way (R5-1a) (42"x30") signs facing northbound, wrong way, traffic on either side of the southbound approach of State Route 22 at LM 21.07. Install red retroreflective strips along the sign posts (see Details Page R12).
12. Install one (1) sign assembly which includes one (1) Bike Route (D11-1) (24"X18") sign facing northbound on the northbound approach of State Route 22.

*** All warning signs shall be on fluorescent yellow sheeting material.**

*** All warning signs for school zones, pedestrians, and bicycles shall be on fluorescent yellow-green sheeting material.**

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

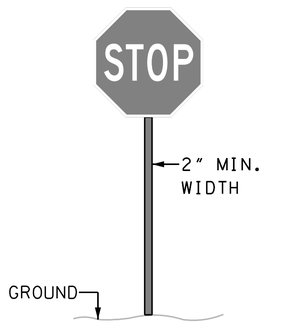
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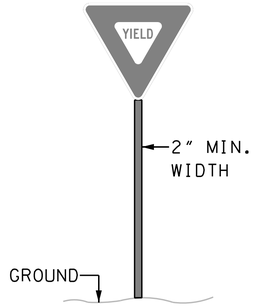
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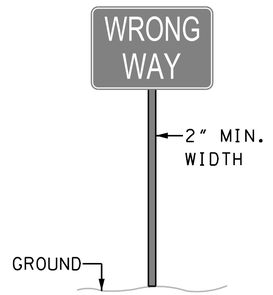
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PS&E	2026	HSIP-22(91)	R12



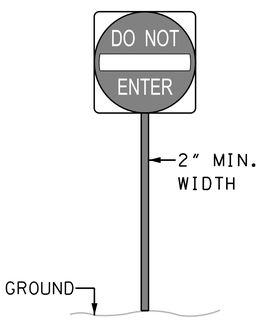
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RETROREFLECTIVE STRIP ON YIELD (R1-2) SIGN POST (RED)



RETROREFLECTIVE STRIP ON WRONG WAY (R5-1a) SIGN POST (RED)



RETROREFLECTIVE STRIP ON DO NOT ENTER (R5-1) SIGN POST (RED)

ROAD SAFETY AUDIT REVIEW

STATE ROUTE 22
L.M. 15.30 TO L.M. 21.05
CARROLL COUNTY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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SHEET 32 OF 32

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28-AUG-2026 10:56
\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET T1 - PAVEMENT EDGE DROP OFF NOTES.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T1
P.I.H.	2026	HSIP-22(91)	T1
PS&E	2026	HSIP-22(91)	T1

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SEALED BY

ELIZABETH C. DAVIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

28-AUG-2026 10:57
\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET T2 - TRAFFIC PHASING NOTES AND TABULATION.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T2
P.I.H.	2026	HSIP-22(91)	T2
PS&E	2026	HSIP-22(91)	T2

TRAFFIC CONTROL SIGN TABULATION

M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L	x	W	S.F.	NO. REQUIRED PHASE 1	NO. REQUIRED PHASE 2	NO. REQUIRED PHASE 3	NO. REQUIRED PHASE 4	NO. REQUIRED PHASE 5	NO. REQUIRED PHASE 6	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
G20-2	END ROAD WORK	48"	x	24"	8	6	9	9	5	9	7	9	72	T-WZ-10	
W20-1	ROAD WORK AHEAD	48"	x	48"	16	4	5	5	3	5	2	5	80		
W20-1	ROAD WORK 1 MILE	48"	x	48"	16	2	4	4	2	4	5	5	80	T-WZ-10	
W20-1	ROAD WORK 1/2 MILE	48"	x	48"	16						5	5	80		
W20-1	ROAD WORK 1000 FT	48"	x	48"	16						1	1	16		
W4-2L	LEFT LANE ENDS (MERGE RIGHT)	48"	x	48"	16		4	4		4		4	64	T-WZ-11	
W20-5L	LEFT LANE CLOSED 1500 FT	48"	x	48"	16		4	4		4		4	64	T-WZ-11	
W20-5L	LEFT LANE CLOSED 1/2 MILE	48"	x	48"	16		4	4		4		4	64	T-WZ-11	
R3-7	LEFT LANE MUST TURN LEFT	36"	x	36"	9		4	4		2		4	36		
W4-2R	RIGHT LANE ENDS (MERGE LEFT)	48"	x	48"	16	2			2			2	32	T-WZ-11	
W20-5R	RIGHT LANE CLOSED 1500 FT	48"	x	48"	16	2			2			2	32	T-WZ-11	
W20-5R	RIGHT LANE CLOSED 1/2 MILE	48"	x	48"	16	2			2			2	32	T-WZ-11	
W21-5R	RIGHT SHOULDER CLOSED 1500 FT	48"	x	48"	16						5	5	80	T-WZ-18	
W21-5R	RIGHT SHOULDER CLOSED	48"	x	48"	16						5	5	80	T-WZ-18	
THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.												TOTAL	812	S.F.	

TABULATED TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 09006-3219-94
(1)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	6180
(2)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	4
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	536
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	309
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	137
	712-06	SIGNS (CONSTRUCTION)	S.F.	812
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	21226
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2

(1) THE CONTRACTOR SHALL PROVIDE AN APPROVED ANCHORED BARRIER OR ANOTHER APPROVED BARRIER THAT PROVIDES MINIMAL DEFLECTION. SEE TDOT'S QUALIFIED PROJECTS LIST FOR APPROVED PRODUCTS.

(2) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C
	FLEXIBLE DRUMS (CHANNELIZING)
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-SIDED)
	TEMPORARY ATTENUATOR
→	TRAFFIC FLOW
C	WARNING LIGHT (TYPE C) (STEADY BURN)
	WORK ZONE

TRAFFIC CONTROL PHASING NOTES:

PHASE 1:
ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE PROPOSED DRAINAGE IMPROVEMENTS SHALL BE IN PLACE PRIOR TO THE START OF OTHER WORK.

PHASE 2:
THE BULBOUT CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNING AND MARKING FOR THE SB J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.

PHASE 3:
AT THE DISCRETION OF THE TDOT ENGINEER, FLAGGING AND/OR ADDITIONAL SAFETY MEASURES MAY BE REQUIRED FOR CONSTRUCTION OF THE DOWNSTREAM ENDWALL. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT WORK.

PHASE 4:
ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE NB J-TURN LANE CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNS AND MARKINGS FOR THE J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.

PHASE 5:
AT THE DISCRETION OF THE TDOT ENGINEER, FLAGGING AND/OR ADDITIONAL SAFETY MEASURES MAY BE REQUIRED FOR CONSTRUCTION OF THE DOWNSTREAM ENDWALL. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT WORK.

PHASE 6:
ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE.

SPECIAL NOTES:

PROJECT TO BE LET WITH THE FOLLOWING ADJACENT PROJECT:
PIN 133610.00 (L.M. 18.77 - L.M. 19.14)

TRAFFIC CONTROL AND PHASING SHALL BE COORDINATED WITH THE ADJACENT PROJECTS AS REQUIRED. SEE PROJECT PINS FOR ADDITIONAL DETAILS.

THIS PLAN IS NOT INTENDED TO RELIEVE OR SUPERSEDE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY INSTALL ALL WARRANTED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THIS CONSTRUCTION SIGNING IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. SEE STANDARD T-WZ-10 FOR ADDITIONAL GUIDANCE.

A MINIMUM LANE WIDTH OF 10.5 FT SHALL BE MAINTAINED THROUGHOUT ALL PHASES.

SEALED BY

ELIZABETH C. DAVIS REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 134139 STATE OF TENNESSEE

09/01/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PHASING NOTES, LEGEND AND TABULATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T3
P.I.H.	2026	HSIP-22(91)	T3
PS&E	2026	HSIP-22(91)	T3

1 ROAD WORK 1 MILE W20-1 48" X 48"

2 RIGHT LANE CLOSED 1/2 MILE W20-5R 48" X 48"

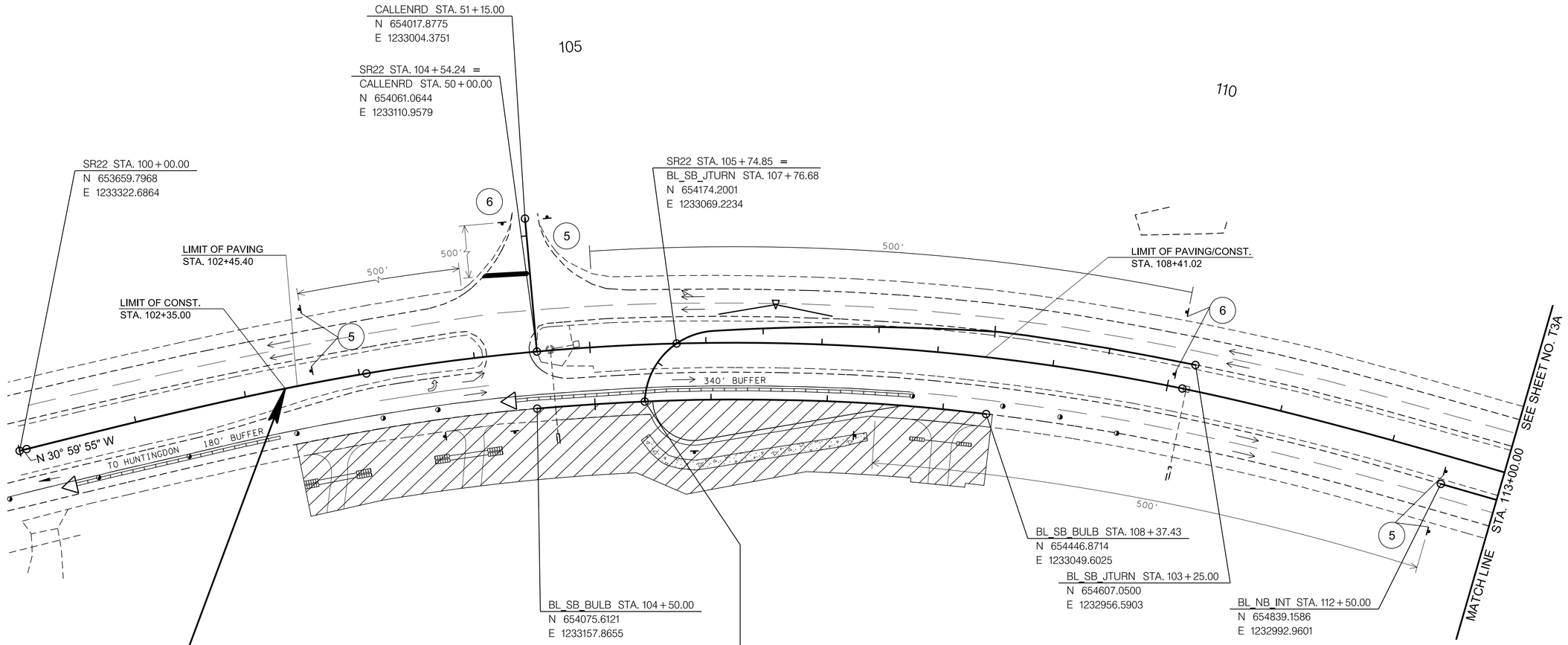
3 RIGHT LANE CLOSED 1500 FT W20-5R 48" X 48"

4 W4-2R 48" X 48"

5 END ROAD WORK G20-2 48" X 24"

6 ROAD WORK AHEAD W20-1 48" X 48"

N

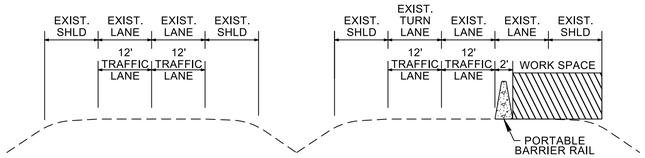


09006-3219-94

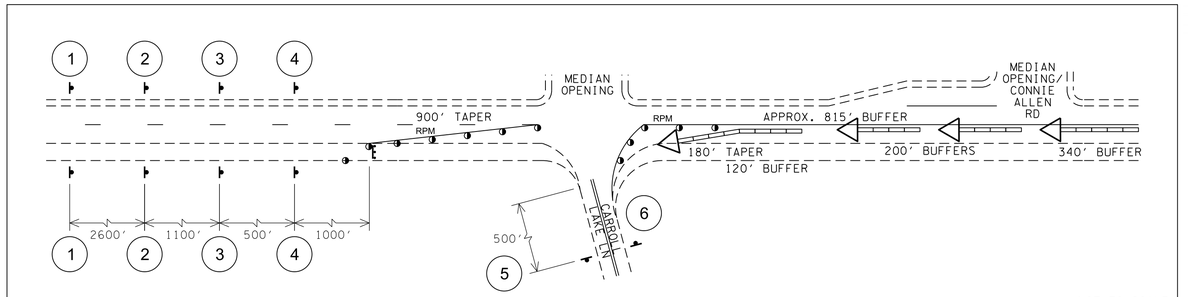
BEGIN PROJ. NO. HSIP-22(91) (CONST.)
STA. 102+35.00
N 653862.9874 E 1233204.6680

PHASE 1

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE PROPOSED DRAINAGE IMPROVEMENTS SHALL BE IN PLACE PRIOR TO THE START OF OTHER WORK.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 1



NOT TO SCALE

SEALED BY

ELIZABETH C. DAVID
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COMMERCE
NO. 124199
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

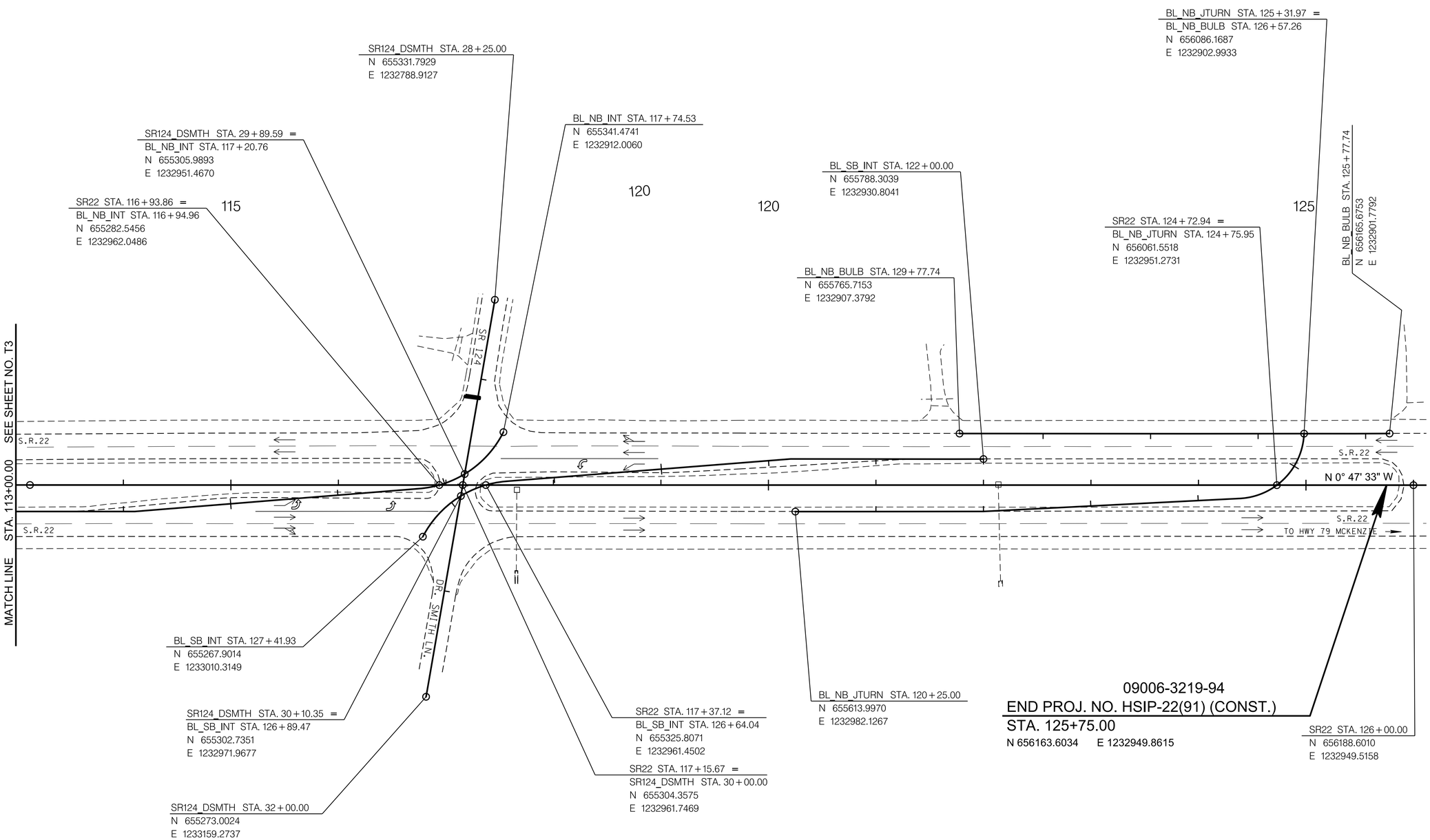
STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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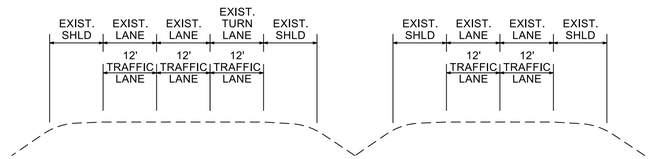
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T3A
P.I.H.	2026	HSIP-22(91)	T3A
PS&E	2026	HSIP-22(91)	T3A



PHASE 1

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE PROPOSED DRAINAGE IMPROVEMENTS SHALL BE IN PLACE PRIOR TO THE START OF OTHER WORK.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 1

SEALED BY

ELIZABETH G. DAVID
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AGRICULTURE
COMMERCE
NO. 124139
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T4
P.I.H.	2026	HSIP-22(91)	T4
PS&E	2026	HSIP-22(91)	T4

1 — ROAD WORK 1 MILE — W20-1 48" X 48"

2 — LEFT LANE CLOSED 1/2 MILE — W20-5L 48" X 48"

3 — LEFT LANE CLOSED 1500 FT — W20-5L 48" X 48"

4 — W4-2L 48" X 48"

5 — END ROAD WORK — G20-2 48" X 24"

6 — ROAD WORK AHEAD — W20-1 48" X 48"

7 — LEFT LANE MUST TURN LEFT — R3-7 36" X 36"

N

09006-2219-94
BEGIN PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 105+35.00
N 654136.5309 E 1233082.2212

09006-2219-94
END PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 108+36.01
N 654426.8203 E 1233003.7883

CALLENRD STA. 51+15.00
N 654017.8775
E 1233004.3751

SR22 STA. 104+54.24 = CALLENRD STA. 50+00.00
N 654061.0644
E 1233110.9579

SR22 STA. 100+00.00
N 653659.7968
E 1233322.6864

SR22 STA. 105+74.85 = BL_SB_JTURN STA. 107+76.68
N 654174.2001
E 1233069.2234

105

110

500'

500'

CONNIE ALLEN RD.

APPROX. 520' BUFFER

APPROX. 120' CURVE

S.R.22

100' TAPER

95' BUFFER

100' GAP

N 30° 59' 55" W

TO HUNTINGDON

LIMIT OF PAVING/CONST.
STA. 110+00.00

180' TAPER

660' BUFFER

SEE SHEET NO. T4A

LIMIT OF PAVING
STA. 105+33.48

LIMIT OF CONST.
STA. 104+54.24

BL_SB_BULB STA. 104+50.00
N 654075.6121
E 1233157.8655

BL_SB_JTURN STA. 108+35.90 = BL_SB_BULB STA. 105+42.90
N 654162.5280
E 1233125.0804

BL_SB_BULB STA. 108+37.43
N 654446.8714
E 1233049.6025

BL_SB_JTURN STA. 103+25.00
N 654607.0500
E 1232956.5903

BL_NB_INT STA. 112+50.00
N 654839.1586
E 1232992.9601

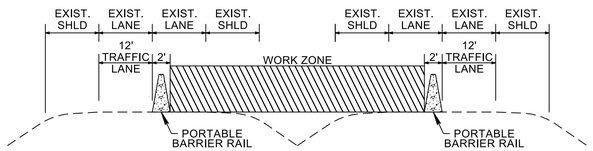
500'

MATCH LINE STA. 113+00.00

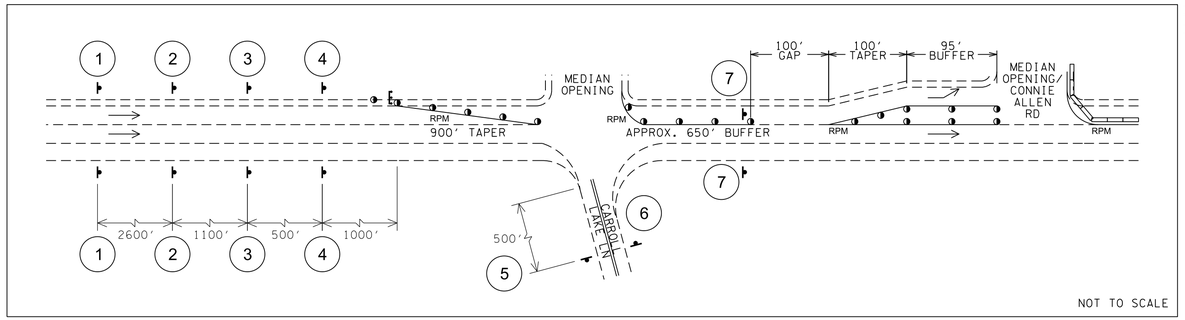
09006-3219-94
BEGIN PROJ. NO. HSIP-22(91) (CONST.)
STA. 102+35.00
N 653862.9874 E 1233204.6680

PHASE 2

THE BULBOUT CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNING AND MARKING FOR THE SB J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 2



NOT TO SCALE

SEALED BY

ELIZABETH G. DAVIS — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — NO. 134199 — STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T4A
P.I.H.	2026	HSIP-22(91)	T4A
PS&E	2026	HSIP-22(91)	T4A

1 — END ROAD WORK — G20-2, 48" X 24"

2 — ROAD WORK AHEAD — W20-1, 48" X 48"

3 — W4-2L, 48" X 48"

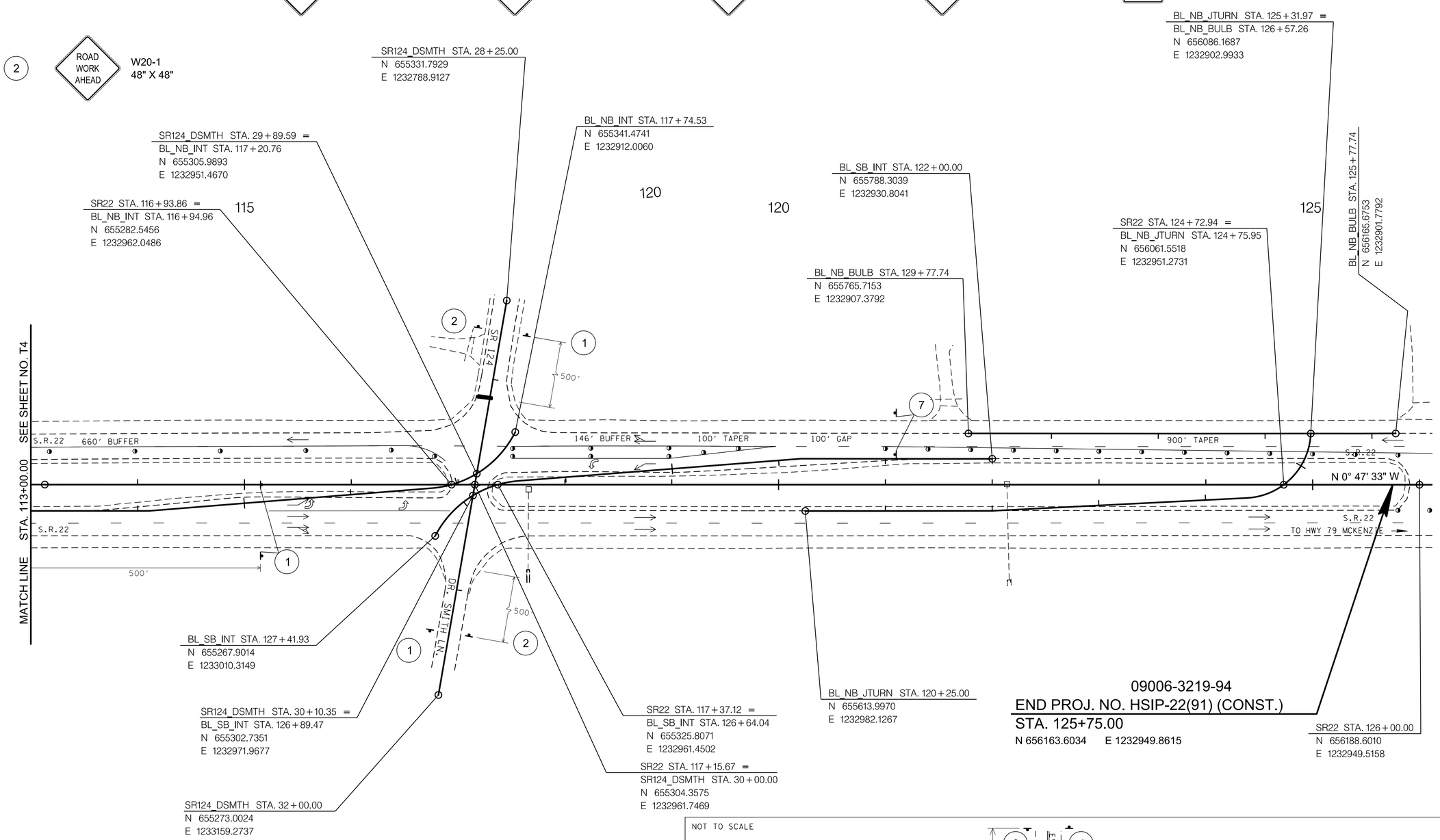
4 — LEFT LANE CLOSED 1500 FT — W20-5L, 48" X 48"

5 — LEFT LANE CLOSED 1/2 MILE — W20-5L, 48" X 48"

6 — ROAD WORK 1 MILE — W20-1, 48" X 48"

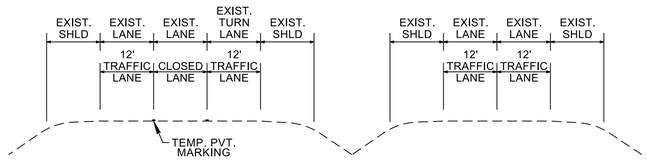
7 — LEFT LANE MUST TURN LEFT — R3-7, 36" X 36"

N

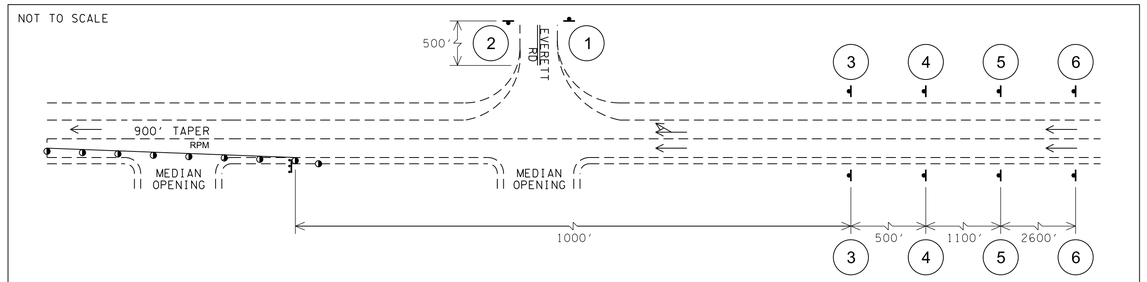


PHASE 2

THE BULBOUT CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNING AND MARKING FOR THE SB J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 2



SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 134199
STATE OF TENNESSEE
09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T5
P.I.H.	2026	HSIP-22(91)	T5
PS&E	2026	HSIP-22(91)	T5

1 ROAD WORK 1 MILE — W20-1, 48" X 48"

2 LEFT LANE CLOSED 1/2 MILE — W20-5L, 48" X 48"

3 LEFT LANE CLOSED 1500 FT — W20-5L, 48" X 48"

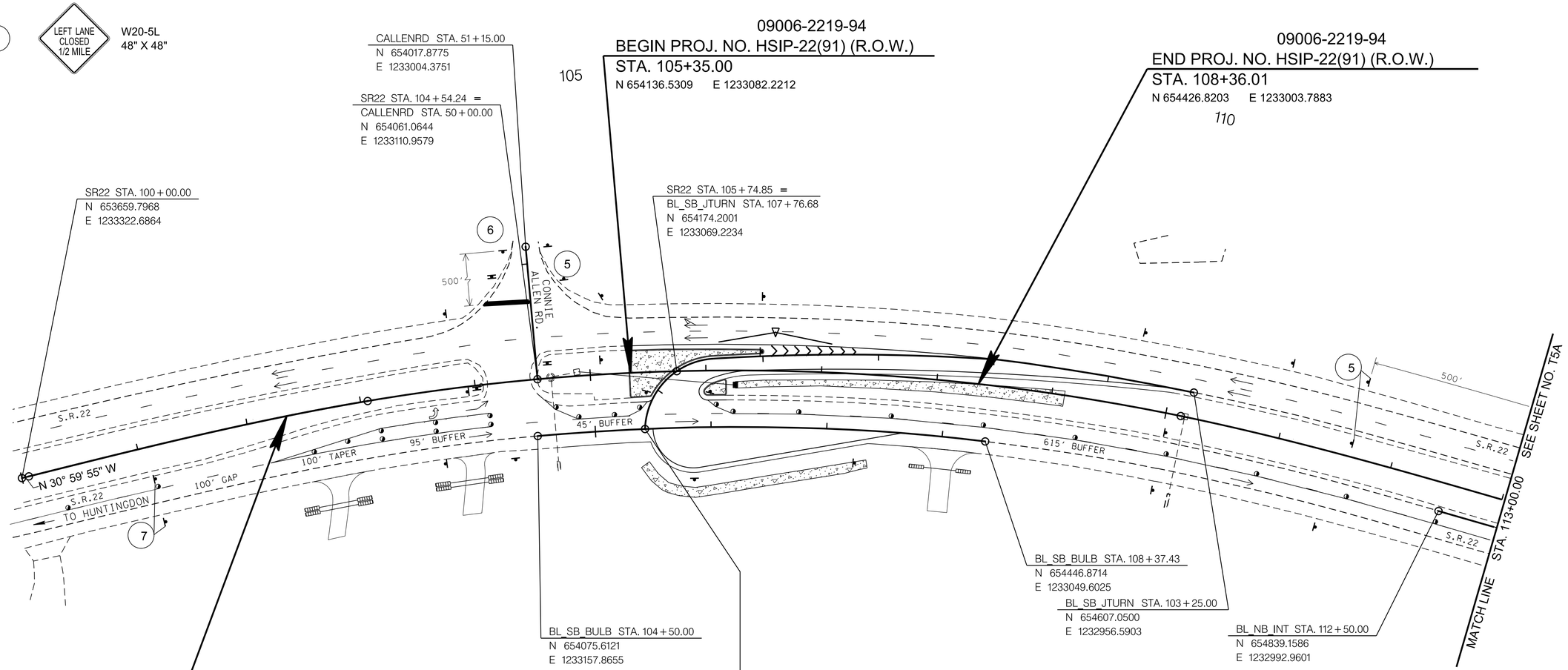
4 — W4-2L, 48" X 48"

5 END ROAD WORK — G20-2, 48" X 24"

6 ROAD WORK AHEAD — W20-1, 48" X 48"

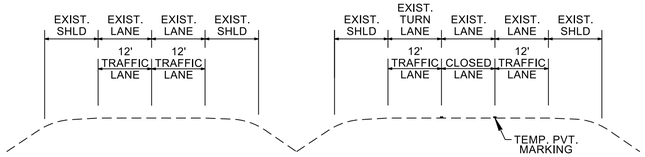
7 LEFT LANE MUST TURN LEFT — R3-7, 36" X 36"

N

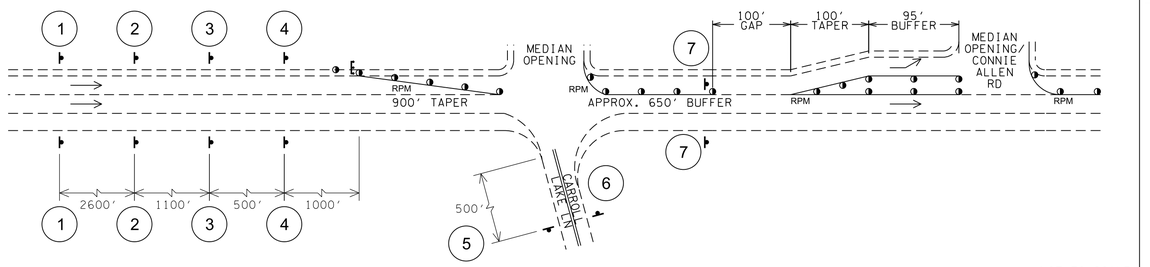


PHASE 3

AT THE DISCRETION OF THE TDOT ENGINEER, FLAGGING AND/OR ADDITIONAL SAFETY MEASURES MAY BE REQUIRED FOR CONSTRUCTION OF THE DOWNSTREAM ENDWALL. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT WORK.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 3



SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T5A
P.I.H.	2026	HSIP-22(91)	T5A
PS&E	2026	HSIP-22(91)	T5A

1 — END ROAD WORK — G20-2, 48" X 24"

2 — ROAD WORK AHEAD — W20-1, 48" X 48"

3 — W4-2L, 48" X 48"

4 — LEFT LANE CLOSED 1500 FT — W20-5L, 48" X 48"

5 — LEFT LANE CLOSED 1/2 MILE — W20-5L, 48" X 48"

6 — ROAD WORK 1 MILE — W20-1, 48" X 48"

7 — LEFT LANE MUST TURN LEFT — R3-7, 36" X 36"

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

115 120 120 125

SEE SHEET NO. T5

MATCH LINE STA. 113+00.00

S.R.22 — 500′ — 100′ GAP — 100′ TAPER — 170′ BUFFER — 280′ BUFFER — 180′ TAPER — 160′ TAPER — 380′ BUFFER — 540′ BUFFER — TO HWY 79 MCKENZIE

SR 124 — 500′ — 500′

DR. SMITH LN.

N 0° 47′ 33" W

LIMIT OF CONST. STA. 125+75.00

LIMIT OF PAVING STA. 125+11.07

LIMIT OF PAVING/CONST. STA. 120+50.00

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

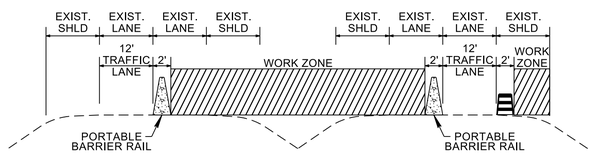
BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

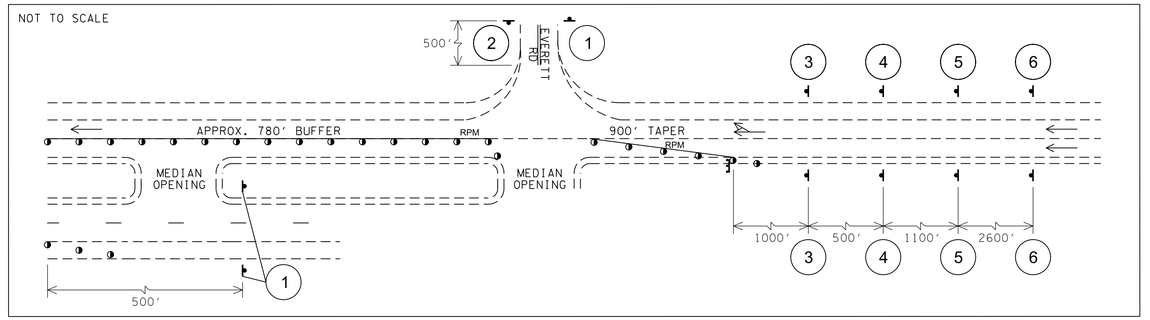
SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158

PHASE 3

AT THE DISCRETION OF THE TDOT ENGINEER, FLAGGING AND/OR ADDITIONAL SAFETY MEASURES MAY BE REQUIRED FOR CONSTRUCTION OF THE DOWNSTREAM ENDWALL. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT WORK.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 3



SEALED BY

ELIZABETH C. DAVIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 19429
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

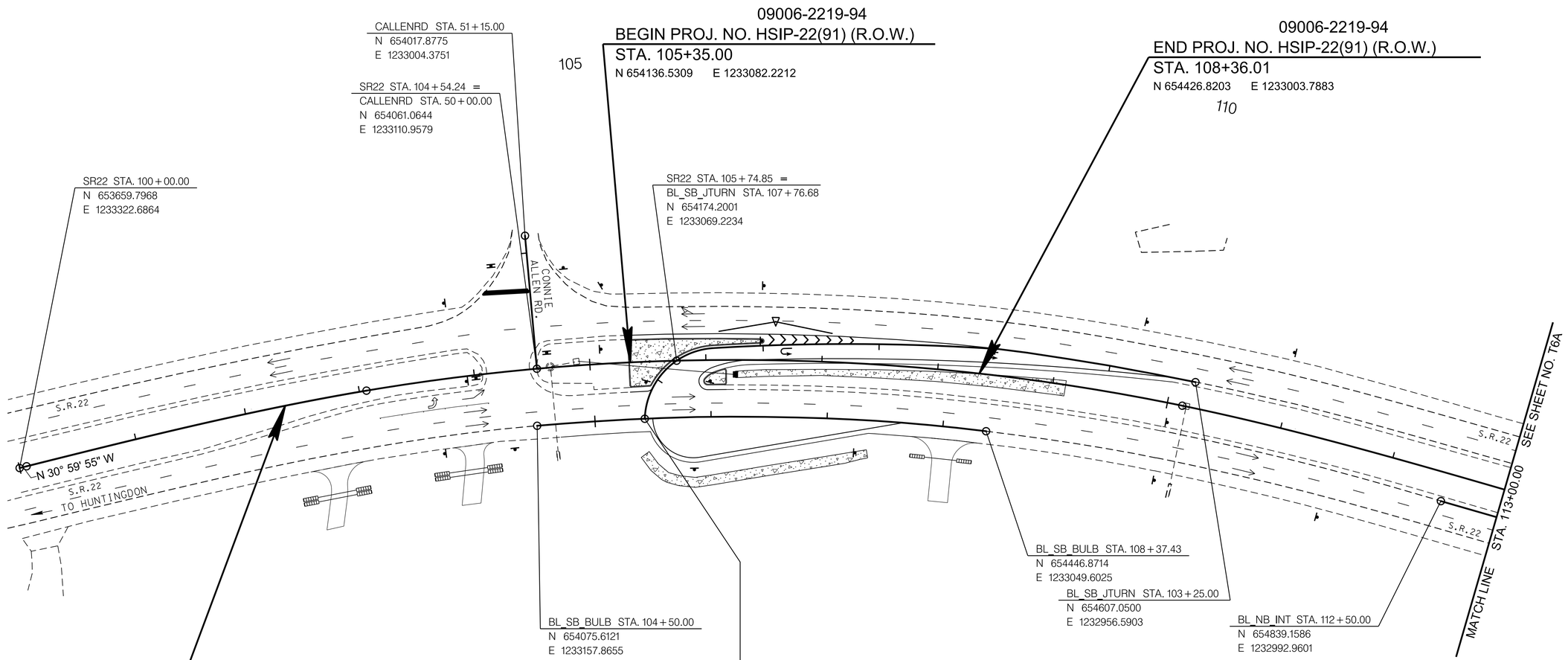
TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

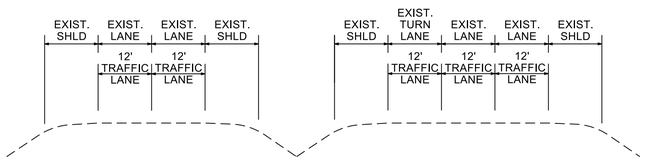
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T6
P.I.H.	2026	HSIP-22(91)	T6
PS&E	2026	HSIP-22(91)	T6



PHASE 4

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE NB J-TURN LANE CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNS AND MARKINGS FOR THE J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 4

SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T6A
P.I.H.	2026	HSIP-22(91)	T6A
PS&E	2026	HSIP-22(91)	T6A

1 END ROAD WORK — G20-2, 48" X 24"

2 ROAD WORK AHEAD — W20-1, 48" X 48"

3 — W4-2R, 48" X 48"

4 RIGHT LANE CLOSED 1500 FT — W20-5R, 48" X 48"

5 RIGHT LANE CLOSED 1/2 MILE — W20-5R, 48" X 48"

6 ROAD WORK 1 MILE — W20-1, 48" X 48"

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

115 120 120 125

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

SR 124

DR. SMITH LN.

450′

1

2

450′

320′ BUFFER

40′ TAPER

APPROX. 850′ BUFFER

S.R.22

N 0° 47′ 33″ W

TO HWY 79 MCKENZIE

MATCH LINE STA. 113+00.00 SEE SHEET NO. T6

LIMIT OF PAVING/CONST.
STA. 122+70.79

LIMIT OF PAVING/CONST.
STA. 125+11.07

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

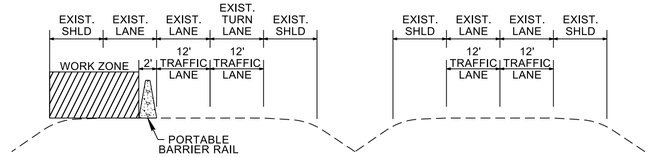
BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

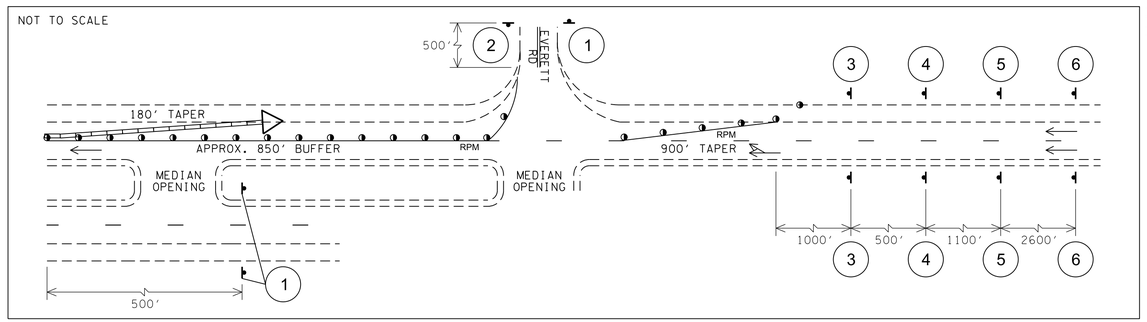
SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158

PHASE 4

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. THE NB J-TURN LANE CONSTRUCTED IN THE PREVIOUS PHASE IS TO REMAIN CLOSED TO THE PUBLIC THROUGHOUT THIS PHASE. ALL SIGNS AND MARKINGS FOR THE J-TURN SHALL BE PLACED PRIOR TO OPENING THE AREA TO THE TRAVELING PUBLIC.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 4



SEALED BY

ELIZABETH G. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

28-AUG-2026 10:58
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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T7
P.I.H.	2026	HSIP-22(91)	T7
PS&E	2026	HSIP-22(91)	T7

1 — ROAD WORK 1 MILE — W20-1 48" X 48"

2 — LEFT LANE CLOSED 1/2 MILE — W20-5L 48" X 48"

3 — LEFT LANE CLOSED 1500 FT — W20-5L 48" X 48"

4 — W4-2L 48" X 48"

5 — END ROAD WORK — G20-2 48" X 24"

6 — ROAD WORK AHEAD — W20-1 48" X 48"

7 — LEFT LANE MUST TURN LEFT — R3-7 36" X 36"

N

09006-2219-94
BEGIN PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 105+35.00
N 654136.5309 E 1233082.2212

09006-2219-94
END PROJ. NO. HSIP-22(91) (R.O.W.)
STA. 108+36.01
N 654426.8203 E 1233003.7883

CALLENRD STA. 51+15.00
N 654017.8775
E 1233004.3751

SR22 STA. 104+54.24 = CALLENRD STA. 50+00.00
N 654061.0644
E 1233110.9579

SR22 STA. 100+00.00
N 653659.7968
E 1233322.6864

SR22 STA. 105+74.85 = BL_SB_JTURN STA. 107+76.68
N 654174.2001
E 1233069.2234

105

110

500'

500'

CONNIE ALLEN RD.

S.R.22

N 30° 59' 55" W

TO HUNTINGDON

100' GAP

100' TAPER

95' BUFFER

45' BUFFER

615' BUFFER

180' TAPER

LIMIT OF PAVING/CONST.
STA. 112+60.67

SEE SHEET NO. T7A

STA. 113+00.00

MATCH LINE

BL_SB_BULB STA. 104+50.00
N 654075.6121
E 1233157.8655

BL_SB_JTURN STA. 108+35.90 = BL_SB_BULB STA. 105+42.90
N 654162.5280
E 1233125.0804

BL_SB_BULB STA. 108+37.43
N 654446.8714
E 1233049.6025

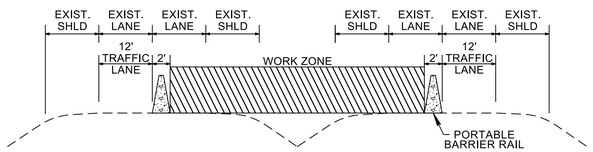
BL_SB_JTURN STA. 103+25.00
N 654607.0500
E 1232956.5903

BL_NB_INT STA. 112+50.00
N 654839.1586
E 1232992.9601

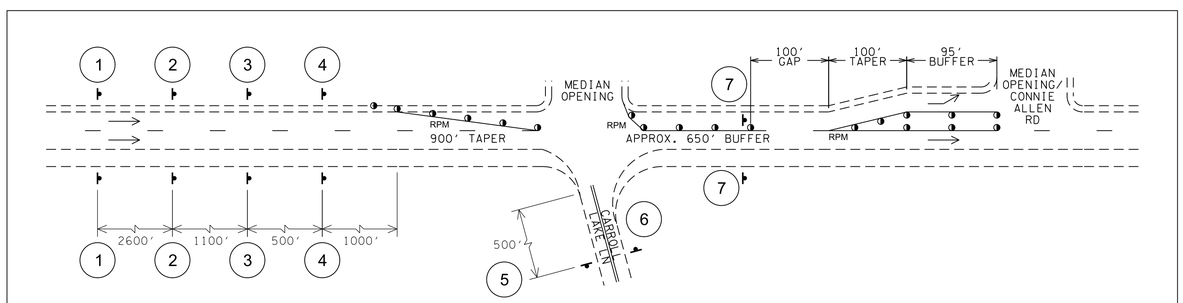
09006-3219-94
BEGIN PROJ. NO. HSIP-22(91) (CONST.)
STA. 102+35.00
N 653862.9874 E 1233204.6680

PHASE 5

AT THE DISCRETION OF THE TDOT ENGINEER, FLAGGING AND/OR ADDITIONAL SAFETY MEASURES MAY BE REQUIRED FOR CONSTRUCTION OF THE DOWNSTREAM ENDWALL. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT WORK.



TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 5



SEALED BY

ELIZABETH C. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124129
STATE OF TENNESSEE

09/01/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.100+00.00 TO STA.113+00.00

SCALE: 1"=50'

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\\TDOT04NAS002.tdot.state.tn.us\04Shared\Design\DESIGN\DESIGNRL\ROADSIDE SAFETY AUDIT\Carroll - SR22 (128893.00)\Project\SHEETS\SHEET T7 - TTC - PHASE 5.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T7A
P.I.H.	2026	HSIP-22(91)	T7A
PS&E	2026	HSIP-22(91)	T7A

1 END ROAD WORK G20-2 48" X 24"

2 ROAD WORK AHEAD W20-1 48" X 48"

3 W4-2L 48" X 48"

4 LEFT LANE CLOSED 1500 FT W20-5L 48" X 48"

5 LEFT LANE CLOSED 1/2 MILE W20-5L 48" X 48"

6 ROAD WORK 1 MILE W20-1 48" X 48"

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

115

120

120

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

125

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

LIMIT OF PAVING/CONST.
STA. 121+70.67

SEE SHEET NO. T7

MATCH LINE STA. 113+00.00

S.R.22 920' BUFFER

S.R.22 660' BUFFER

180' TAPER

280' TAPER

S.R.22 APPROX. 1255' BUFFER

N 0° 47' 33" W

S.R.22 TO HWY 79 MCKENZIE

500'

SR 124

2 LN. SHLDR

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

SR124_DSMTH STA. 30+10.35 =
BL_SB_INT STA. 126+89.47
N 655302.7351
E 1232971.9677

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

SR22 STA. 117+37.12 =
BL_SB_INT STA. 126+64.04
N 655325.8071
E 1232961.4502

SR22 STA. 117+15.67 =
SR124_DSMTH STA. 30+00.00
N 655304.3575
E 1232961.7469

BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

SR22 STA. 126+00.00
N 656188.6010
E 1232949.5158

EXIST. SHLD | EXIST. LANE | EXIST. LANE | EXIST. TURN LANE | EXIST. SHLD | EXIST. SHLD | EXIST. LANE | EXIST. LANE | EXIST. SHLD

12' TRAFFIC LANE | 2' | WORK ZONE | 2' | 12' TRAFFIC LANE

PORTABLE BARRIER RAIL

PORTABLE BARRIER RAIL

TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 5

NOT TO SCALE

500' | EVERETT RD | APPROX. 1255' BUFFER | RPM | MEDIAN OPENING | MEDIAN OPENING | 900' TAPER | RPM

1000' | 500' | 1100' | 2600'

PHASE 5

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SEALED BY

ELIZABETH C. DAVID REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 134199 STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T8
P.I.H.	2026	HSIP-22(91)	T8
PS&E	2026	HSIP-22(91)	T8

1 ROAD WORK 1 MILE W20-1 48" X 48"

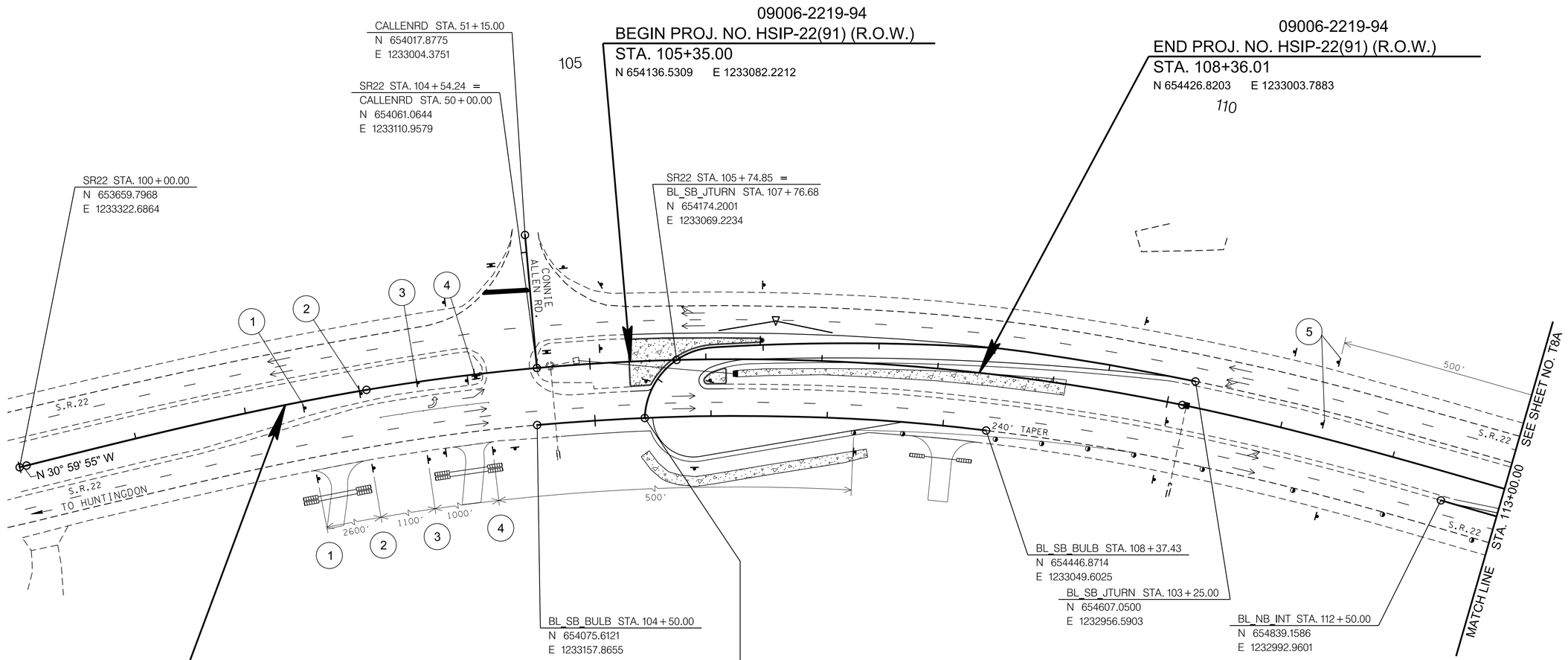
2 ROAD WORK 1/2 MILE W20-1 48" X 48"

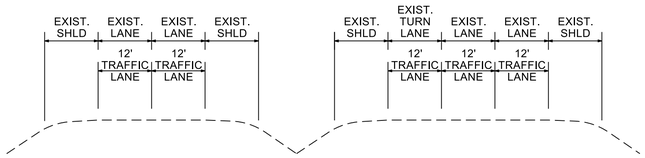
3 RIGHT SHOULDER CLOSED 1500 FT W21-5R 48" X 48"

4 RIGHT SHOULDER CLOSED W21-5R 48" X 48"

5 END ROAD WORK G20-2 48" X 24"

N





TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 6

PHASE 6

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE.

SEALED BY

ELIZABETH G. DAVID
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 124109
STATE OF TENNESSEE

09/01/2026

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TRAFFIC CONTROL PLANS

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SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2024	HSIP-22(91)	T8A
P.I.H.	2026	HSIP-22(91)	T8A
PS&E	2026	HSIP-22(91)	T8A

1 — END ROAD WORK — G20-2 — 48" X 24"

2 — ROAD WORK AHEAD — W20-1 — 48" X 48"

3 — ROAD WORK 1000 FT — W20-1 — 48" X 48"

4 — RIGHT SHOULDER CLOSED — W21-5R — 48" X 48"

5 — RIGHT SHOULDER CLOSED 1500 FT — W21-5R — 48" X 48"

6 — ROAD WORK 1/2 MILE — W20-1 — 48" X 48"

7 — ROAD WORK 1 MILE — W20-1 — 48" X 48"

N

SR124_DSMTH STA. 28+25.00
N 655331.7929
E 1232788.9127

BL_NB_JTURN STA. 125+31.97 =
BL_NB_BULB STA. 126+57.26
N 656086.1687
E 1232902.9933

SR124_DSMTH STA. 29+89.59 =
BL_NB_INT STA. 117+20.76
N 655305.9893
E 1232951.4670

BL_NB_INT STA. 117+74.53
N 655341.4741
E 1232912.0060

BL_SB_INT STA. 122+00.00
N 655788.3039
E 1232930.8041

SR22 STA. 116+93.86 =
BL_NB_INT STA. 116+94.96
N 655282.5456
E 1232962.0486

SR22 STA. 124+72.94 =
BL_NB_JTURN STA. 124+75.95
N 656061.5518
E 1232951.2731

BL_NB_BULB STA. 125+77.74
N 656165.6753
E 1232901.7792

115 120 120 125

2600′ 7
1100′ 6
1000′ 5
500′ 4
95′ TAPER
360′ BUFFER
1
500′
LIMIT OF CONST.
STA. 28+60.00

BL_NB_BULB STA. 129+77.74
N 655765.7153
E 1232907.3792

LIMIT OF PAVING/CONST.
STA. 118+07.12

500′

SEE SHEET NO. T8

MATCH LINE STA. 113+00.00

S.R.22

N 0° 47' 33" W

TO HWY 79 MCKENZIE

LIMIT OF PAVING/CONST.
STA. 116+20.12

DR. SMITH LN.

500′

BL_SB_INT STA. 127+41.93
N 655267.9014
E 1233010.3149

BL_NB_JTURN STA. 120+25.00
N 655613.9970
E 1232982.1267

09006-3219-94
END PROJ. NO. HSIP-22(91) (CONST.)
STA. 125+75.00
N 656163.6034 E 1232949.8615

SR22 STA. 126+00.00
N 656188.6010
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SR124_DSMTH STA. 30+10.35 =
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N 655304.3575
E 1232961.7469

SR124_DSMTH STA. 32+00.00
N 655273.0024
E 1233159.2737

LIMIT OF CONST.
STA. 31+75.00

1 2 3

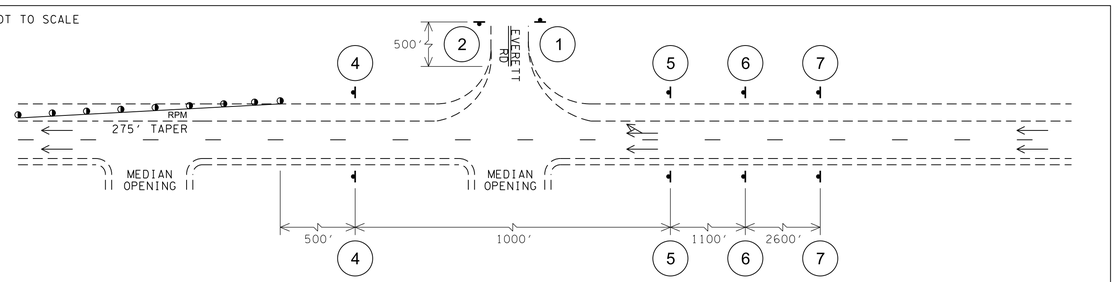
500′ 500′

EXIST. SHLD | WORK ZONE | EXIST. LANE 12′ | EXIST. LANE 12′ | PROP. TURN LANE 12′ | EXIST. SHLD

EXIST. SHLD | PROP. TURN LANE 12′ | EXIST. LANE 12′ | EXIST. LANE 12′ | EXIST. SHLD | WORK ZONE

TYPICAL SECTION
S.R. 22
TRAFFIC CONTROL PHASE 6

NOT TO SCALE



PHASE 6

ACCESS TO ADJACENT PRIVATE PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE.

SEALED BY

ELIZABETH G. DAVID — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — NO. 124109 — STATE OF TENNESSEE

09/01/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.113+00.00 TO STA.126+00.00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	HSIP-22(91)	S-1

SWPPP INDEX OF SHEETS

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

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

1. SWPPP REQUIREMENTS (5.0.)

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

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

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

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

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

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

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

2. SITE DESCRIPTION (5.5.1.)

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

2.2. TOTAL PROJECT AREA (5.5.1.b): 8.944 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 3.723 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: SR 22 FROM NEAR OLD LOOP 22/THORNE LANE TO SOUTH OF SR 124 OLD MCKENZIE ROAD
COUNTY: CARROLL
PIN: 128893.00

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) 18 & 18A, DRAINAGE MAP SHEET(S) 12 & 13, 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. IF 50 ACRES OF DISTURBANCE WILL BE EXCEEDED AT ANY POINT DURING THE LIFESPAN OF THE PROJECT THE FOLLOWING CONDITIONS MUST BE MET (5.5.3.3)

2.8.1. TDEC SHALL BE NOTIFIED. (5.5.3.3.a)

2.8.2. A GEOSPATIAL FILE IDENTIFYING THE PROJECT AREAS BOUNDARIES SHALL BE SUBMITTED TO TDEC. (5.5.3.3.e)

2.8.3. A MONITORING PLAN SHALL BE PREPARED FOR OUTFALLS DRAINING 10 OR MORE ACRES, OR 5 ACRES IF DRAINING TO WATERS WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR AN ETW. (5.5.3.3.f)

2.8.4. INSPECTIONS SHALL BE CONDUCTED TWICE PER WEEK AND FOLLOWING ANY RAINFALL EVENT OF MORE THAN 0.5 INCHES IN 24 HOURS (5.5.3.3.c AND 5.5.3.9).

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

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

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

☐ YES _____ (DATE) ☒ NO

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

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

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

SOIL PROPERTIES

PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
Ca, CALLOWAY SILT LOAM	C/D	5.1%	0.55
GrB, GRENADA SILT LOAM, 2 TO 5% SLOPES	C/D	48.1%	0.55
LeB, LEXINGTON SILT LOAM, 2 TO 5% SLOPES	B	7.5%	0.43
LeC2, LEXINGTON SILT LOAM, 5 TO 8% SLOPES, MODERATELY ERODED	B	39.3%	0.43

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

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

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

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

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
PAVEMENT	4.829	54.00		0.85
GRASSY SIDE OF ROAD, C/D SOIL GROUP, AVERAGE 2-5% SLOPE	2.189	24.47		0.25
RESIDENTIAL, 1 ACRE LOTS, B SOIL GROUP, AVERAGE 2-5% SLOPE	0.309	3.45		0.28
RESIDENTIAL, 1 ACRE LOTS, B SOIL GROUP, AVERAGE 5-8% SLOPE	1.617	18.08		0.34
WEIGHTED C-FACTOR =				0.59

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
PAVEMENT	6.621	74.02		0.85
GRASSY SIDE OF ROAD, C/D SOIL GROUP, AVERAGE 2-5% SLOPE	1.236	13.82		0.25
RESIDENTIAL, 1 ACRE LOTS, B SOIL GROUP, AVERAGE5-8% SLOPE	0.174	1.95		0.28
RESIDENTIAL, 1 ACRE LOTS, C/D SOIL GROUP, AVERAGE 2-5% SLOPE	0.913	10.21		0.34
WEIGHTED C-FACTOR =				0.70

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 N/A)

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. DRAIN EXISTING PONDS, UNDERCUT, AND INSTALL GSR.

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):

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

☒ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION

☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

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

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
N/A	N/A	N/A	N/A	N/A	N/A

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

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US
N/A

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	21+70.00 LT	23+05.00 LT	N/A	0.02

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☐ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☐ YES ☐ NO

IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

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

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

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

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

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

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

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

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-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

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

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

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

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

YES ☒ NO ☐

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

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

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET 8. 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 17 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 17 (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.

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7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

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

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

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

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

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

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

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

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

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

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

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

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

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

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

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

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

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

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

8.1.7. ON PROJECTS WHERE THE PERMITTEE CHOOSES TO DISTURB MORE THAN 50 ACRES AT ONE TIME, INSPECTIONS WILL BE CONDUCTED TWICE PER WEEK AND FOLLOWING ANY RAINFALL EVENT OF MORE THAN 0.5 INCHES IN 24 HOURS. (5.5.3.3.c)

8.1.8. 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).

8.1.9. 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).

8.1.10. 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”).

8.1.11. 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).

8.1.12. 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.

8.1.13. 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.

8.1.14. 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): INSTALLATION OF SOD, SEED AND MULCH

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

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☒ CURING COMPOUND
☒ EXPLOSIVES
☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

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

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

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

10.6. SANITARY WASTE (5.5.3.7.b)

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

10.7. OTHER MATERIALS

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

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

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

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.

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12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

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

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (5.4.)

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

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

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

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

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

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

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

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

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

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

13.4. MAKING PLANS ACCESSIBLE

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

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

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

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

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

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

13.5. NOTICE OF TERMINATION (9.0.)

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

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

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

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

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

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

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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.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

Robbie Stephens
PRINTED NAME

Statewide Transportation Engineer
TITLE

8/17/2026
DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (1.5.2.)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT **(TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE)**:

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP	Yes	GARAP020	05/15/2030
CORPS OF ENGINEERS (USACE)	Yes	NWP 14 MVM-2025-202	03/15/2031
TVA 26A			
TDEC CGP			
OTHER:			

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

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

OUTFALL LABEL	SUB114C OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW EACH STAGE (%)	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
1		102+35 RT	3.03, 3.12	3.61	3.55	3.55	N/A	N/A	CLEAR CREEK	
2		116+19 LT	2.64, 2.77	0.28	0.30	0.30	N/A	N/A	CLEAR CREEK	
3		31+81 LT	3.48, 2.06	3.09	2.15	2.15	N/A	N/A	CLEAR CREEK	
4		28+50 LT	2.09	1.15	1.19	1.19	N/A	N/A	CLEAR CREEK	
	4A	121+80 LT	1.71, 1.74	1.11	1.11	1.11	N/A	N/A	CLEAR CREEK	
5		125+00 RT	9.34, 3.31	0.23	0.39	0.39	N/A	N/A	CLEAR CREEK	

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Index Of Sheets	
SHEET NAME	SHEET NO.
UTILITIES INDEX, UTILITIES OWNERS, AND UTILITIES SHEETS;	U1-1

PIN: 128893.00

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

CARROLL COUNTY

SR-22

FROM NEAR OLD LOOP 22/THORNE LANE TO SOUTH OF SR-124 OLD MCKENZIE ROAD

STATE HIGHWAY NO. 22 F.A.H.S. NO. N/A

CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:	CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:
NO CONFLICT	ELECTRIC	CARROLL CO. ELECTRIC DEPARTMENT JAMES TAYLOR 103 WEST PARIS ST. HUNTINGDON, TN 38344 731-986-8284 jtaylor@ccelectric.org	NO CONFLICT	SEWER / WATER	CITY OF MCKENZIE EARNEST UMSTEAD 2470 CEDAR ST. / PO BOX 160 MCKENZIE, TN 38201 731-415-4860 earnest.ummstead@cityofmckenzie.com
NO CONFLICT	CABLE	CHARTER KEITH CHESSER 24 CIRCLE DRIVE MCKENZIE, TN 38201 731-352-1146 keith.chesser@charter.com	NO CONFLICT	GAS	WEST TENNESSEE PUBLIC UTILITY DIST. BRENT DILLAHUNTY 14055 PARIS ST. HUNTINGDON, TN 38344 731-986-8286 brent@wtpud.com
NO COST	TELEPHONE FIBER OPTIC	AT&T DANIEL POTTS 315 E. COLLEGE STREET JACKSON, TN. 38301 901-488-2359 dp7607@att.com	NO CONFLICT	TELEPHONE	WEST TN TELEPHONE COMPANY JOEL BRANSON 224 EAST MAIN ST. BRADFORD, TN 38316 731-487-6880 jbranson@tec.com

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY INDEX
AND
UTILITY OWNERS

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE SYSTEM, INC. AT 1-800-351-1111.

25-AUG-2026 15:00
\\AG03SDCWF00008.net.ads.state.tn.us\13SHARED\UTILITY\REGION 4\UTILITY PROJECTS\COUNTIES\CARROLL\128893.00\U1\128893-00 - U-1.dgn