

Index Of Sheets

TITLE SHEET.....	1
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS.....	2B, 2B1, 2B2
RIGHT-OF-WAY ACQUISITION TABLE and PROPERTY MAP.....	3A - 3B
PRESENT LAYOUTS	4 - 5
RIGHT-OF-WAY DETAILS	4A - 5A
PROPOSED LAYOUTS	4B - 5B
PROPOSED PROFILES	4C -5C
SIDE ROAD PROFILES.....	6 - 7
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILES	8
DRAINAGE MAP	9
ROADWAY CROSS SECTIONS	10 - 29
SIDE ROAD CROSS SECTIONS	30 - 33
BRIDGE PLANS.....	B1 - B3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAWKINS/SULLIVAN COUNTY

SR-1 (W. STONE DR.) BRIDGE OVER
NORTH FORK HOLSTON RIVER
L.M. 41.30

LINE AND GRADE

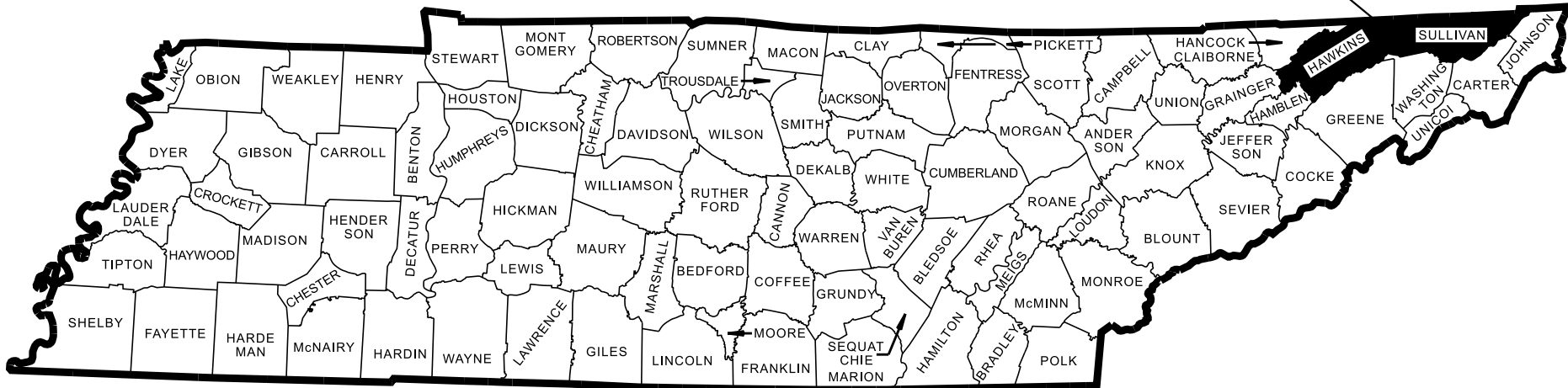
BRIDGE, WIDENING, GRADE, DRAIN, PAVE, GUARDRAIL, CURB AND GUTTER, SIDEWALK

STATE HIGHWAY NO. 1 F.A.H.S. NO. 11W

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

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.	BR-HIP-NH-1(446)	
STATE PROJ. NO.	37S001-F0-002	

PROJECT LOCATION
BRIDGE ID. # 37SR0010037 & 37SR0010038



NO EXCLUSIONS

LINE
AND
GRADE

SEALED BY

APPROVED: 
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED: 
WILL REID, COMMISSIONER

37S001-F0-002
END PROJECT NO. BR-HIP-NH-1(446) PRELIMINARY
STA. 122+25.00 SR1
N 825844.3719 E 2963212.2265

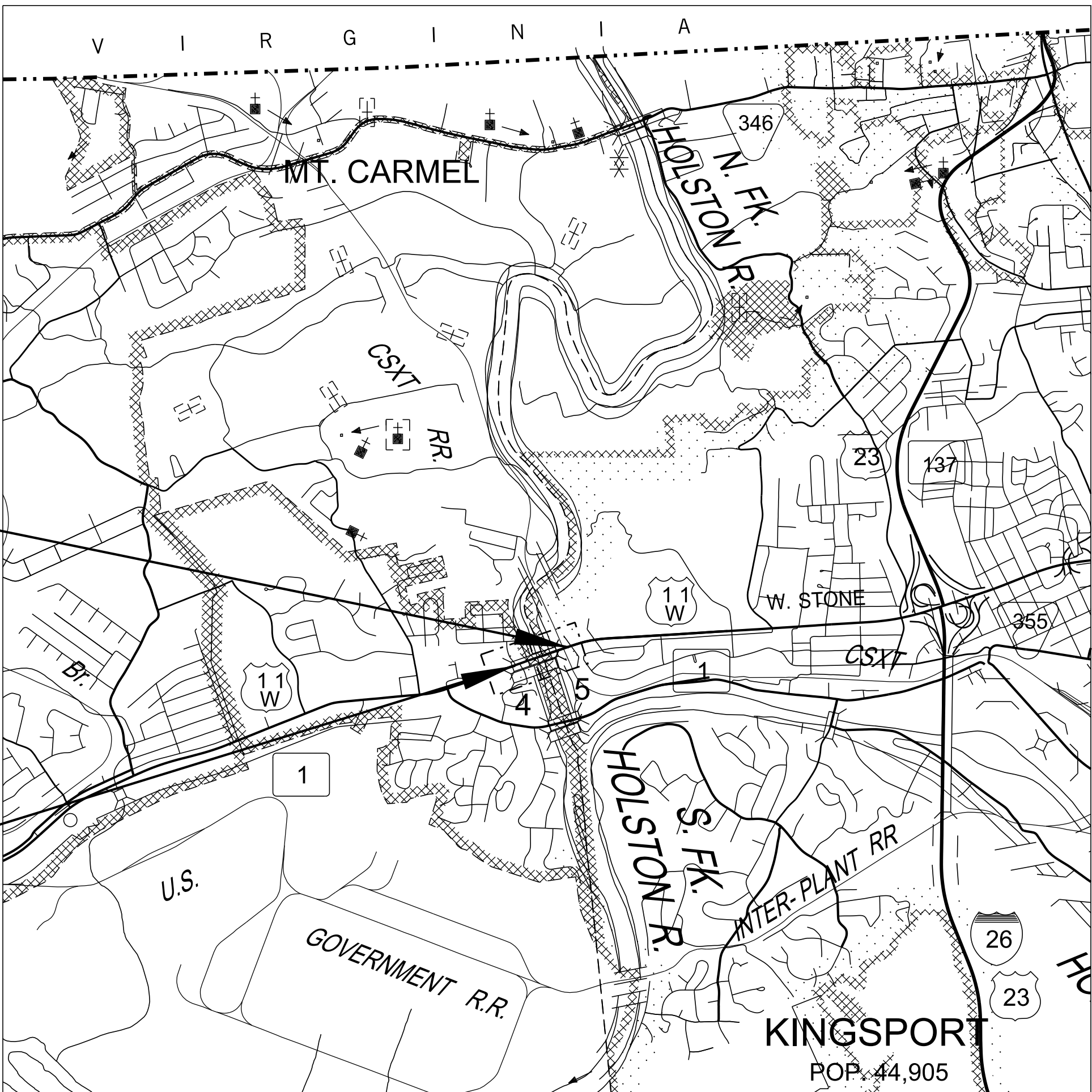
37S001-F0-002
BEGIN PROJECT NO. BR-HIP-NH-1(446) PRELIMINARY
STA. 108+50.00 SR1
N 825399.1116 E 2961911.3160

SPECIAL NOTES

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

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

TDOT PROJECT MANAGER: AMBER WARREN
DESIGN FIRM : MATTERN & CRAIG
DESIGNER : MEGAN ALLPHIN, P.E. CHECKED BY JASON CARDER, P.E., PTOE, RSP
P.E. NO. 37S001-F0-002 (NEPA)
PIN NO. 124387.00



SCALE: 1"= 2640'

R.O.W. LENGTH	0.000 MILES
ROADWAY LENGTH	0.148 MILES
BRIDGE LENGTH	0.112 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.260 MILES

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

SURVEY 11-23-21	TRAFFIC DATA	
	ADT (2026)	34,820
	ADT (2046)	48,750
	DHV (2046)	4,875
	D	55 - 45
	T (ADT)	3 %
	T (DHV)	2 %
	V	50 MPH

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL.

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 37S001-F0-002
105-01	Construction Stakes, Lines And Grades	LS	1
201-01	Clearing And Grubbing	LS	1
203-01	Road & Drainage Excavation (Unclassified)	C.Y.	8000
203-06	Water	M.G.	80
203-07	Furnishing & Spreading Topsoil	C.Y.	800
203-10	Embankment (Compacted In Place)	C.Y.	5000
203-10.15	Waste Material	C.Y.	3000
209-05	Sediment Removal	C.Y.	200
209-08.02	Temporary Silt Fence (With Backing)	L.F.	1500
303-01	Mineral Aggregate, Type A Base, Grading D	TON	10000
307-01.21	Asp. Conc. Mix(Pg70-22) (Bpmb-Hm) Gr. A-S	TON	2600
307-02.01	Asphalt Concrete Mix (Pg70-22) (Bpmb-Hm) Grading A	TON	2900
307-02.08	Asphalt Concrete Mix (Pg70-22) (Bpmb-Hm) Grading B-M2	TON	1950
402-01	Bituminous Material For Prime Coat (Pc)	TON	30
402-02	Aggregate For Cover Material (Pc)	TON	100
403-01	Bituminous Material For Tack Coat (Tc)	TON	25
411-01.07	Acs Mix (Pg64-22) Grading E Shoulder	TON	350
411-02.10	Acs Mix(Pg70-22) Grading D	TON	850
607-05.02	24" Concrete Pipe Culvert (Class Iii)	L.F.	1500
611-07.01	Class A Concrete (Pipe Endwalls)	CY	15
611-07.02	Steel Bar Reinforcement (Pipe Endwalls)	LB	1250
611-12.02	Catch Basins, Type 12, > 4'-8' Depth	EACH	5
701-01.01	Concrete Sidewalk (4 ")	S.F.	18200
701-02	Concrete Driveway	S.F.	175
701-02.03	Concrete Curb Ramp	S.F.	350
702-03	Concrete Combined Curb & Gutter	C.Y.	120
705-04.09	Earth Pad For Type 38 Gr End Treatment	EACH	3
705-04.10	Earth Pad For Guard Rail End Treatment	EACH	1
705-06.01	W Beam Gr (Type 2) Mash TI-3	L.F.	200
705-06.15	Short-Radius Guardrail System (16 Ft Radius) Mash TI-3	EACH	1
705-06.20	Tangent Energy Absorbing Term Mash TI-3	EACH	3
705-06.25	Thrie Beam Bridge Transition Mash TI-3	EACH	4
705-06.30	Gr Terminal (Energy Absorbing) Mash TI-2	EACH	1
705-20.20	Low Maint Crash Cushn Narrow (Mash TI-3)	EACH	2
706-01	Guardrail Removed	L.F.	625
707-08.11	High-Visibility Construction Fence	L.F.	600
709-05.05	Machined Rip-Rap (Class A-3)	TON	1000
711-05.71	51In Single Slope Concrete Barrier Wall	L.F.	250
712-01	Traffic Control	LS	1
712-02.02	Interconnected Portable Barrier Rail	L.F.	1000
712-02.60	Temporary Work Zone Crash Cushion (Mash TI-3)	EACH	1
712-04.01	Flexible Drums (Channelizing)	EACH	200
712-04.50	Barrier Rail Delineator	EACH	50
712-06	Signs (Construction)	S.F.	400
712-07.03	Temporary Barricades (Type Iii)	L.F.	100
712-08.03	Arrow Board (Type C)	EACH	2
713-15.02	Removal & Relocation Of Sign & Support	EACH	10
716-01.23	Snowplowable Raised Pavement Markers (Bi-Dir)(2 Color)	EACH	40
716-02.05	Plastic Pavement Marking (Stop Line)	L.F.	50
716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	EACH	4
716-02.09	Plastic Pavement Marking (Longitudinal Cross-Walk)	L.F.	80
716-05.02	Painted Pavement Marking (8" Barrier Line)	L.F.	5280
716-05.20	Painted Pavement Marking (6" Line)	L.M.	3
716-12.02	Enhanced Flatline Thermo Pvmt Mrkng (6In Line)	L.M.	3
716-12.05	Enhanced Flatline Thermo Pvmt Mrkng (6In Dotted Line)	L.F.	300
717-01	Mobilization	LS	1
801-02	Seeding (Without Mulch)	UNIT	80
801-02.08	Temporary Seeding (Without Mulch)	UNIT	80
801-03	Water (Seeding & Sodding)	M.G.	40
803-01	Sodding (New Sod)	S.Y.	2000
805-12.01	Erosion Control Blanket (Type I)	S.Y.	1000

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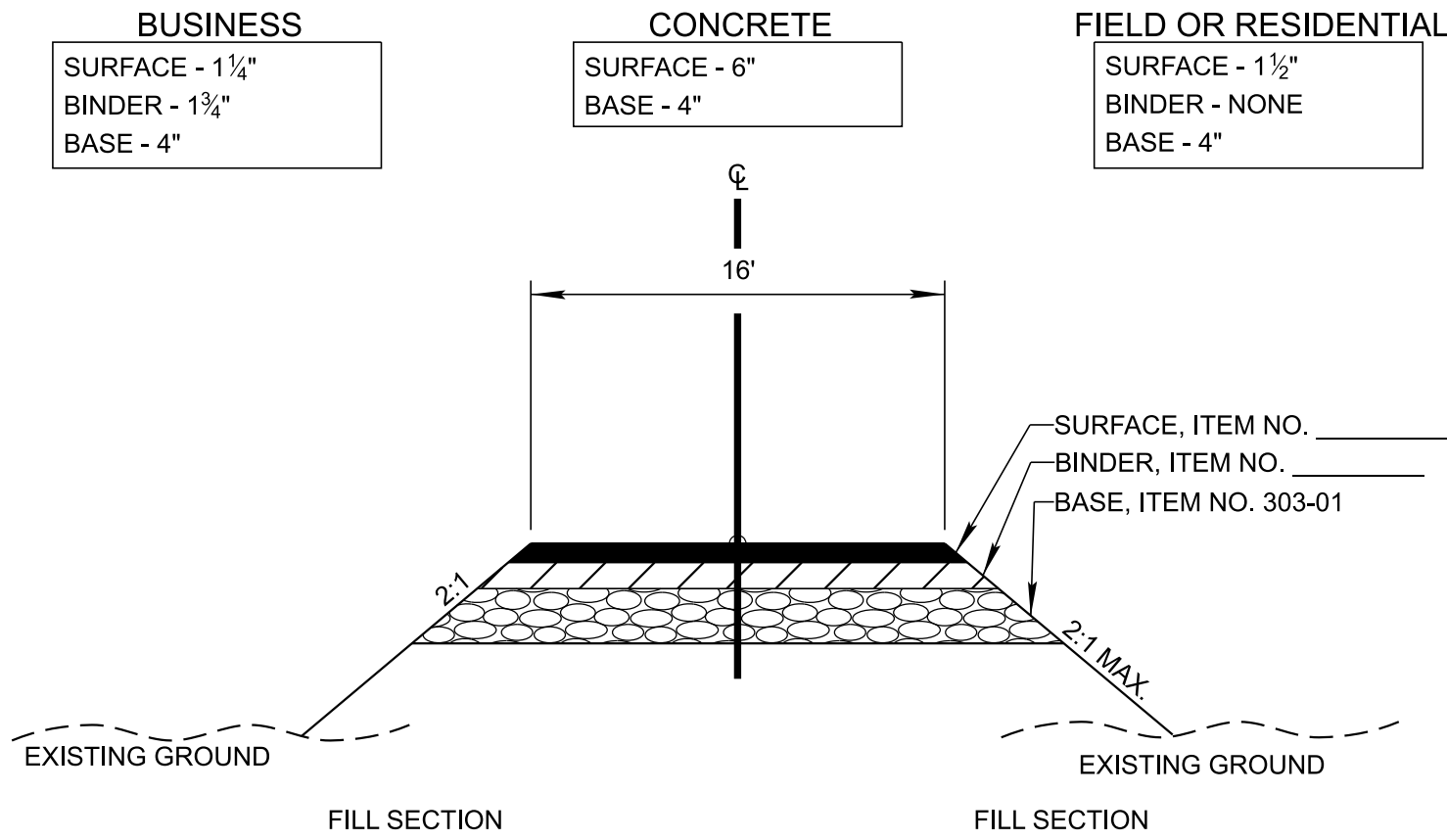
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	2

INFO ONLY

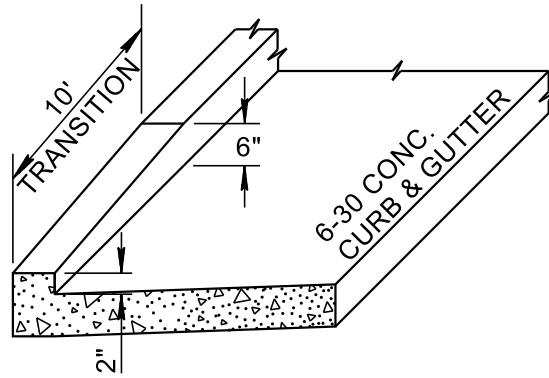
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ESTIMATED ROADWAY QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	2B2



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



DETAIL OF CURB TRANSITION
AT END OF CURB & GUTTER
SEE STD. DWG. RP-VC-10 & RP-VC-11
FOR OTHER DETAILS

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
1	TRAVIS L. FORD	22	72	1425	145		3.572	3.572					3.572				
2	GUIDRY'S OIL COMPANY, LLC.	22	72.06	384	455		0.771	0.771					0.771				
3	STAN PACE AND WIFE, KIM PACE	22	78.01	418	131	1.512		1.512				1.512					
4	HHMM FAMILY LIMITED PARTNERSHIP	22	78	1148	249		1.205	1.205					1.205				
5	ASBURY CENTERS, INC.	22	77	381	567		9.826	9.826					9.826				
6	WAYMIRE FAMILY LIVING TRUST	22	79	1385	256	0.951		0.951				0.951					
7	DOROTHY JEANNE LAWSON REVOCABLE LIVING TRUST	22	80	1204	750	2.182		2.182				2.182					
8	OLEN T. CARPENTER AND WIFE, DOROTHY RUTH CARPENTER	22E/E	10	146	290	0.549		0.549				0.549					
9	JAMES E. GILLIAM, SR. AND WIFE, NORMA L GILLIAM	22	81.03	423	799		1.841	1.841					1.841				
10	DOROTHY JEANNE LAWSON REVOCABLE LIVING TRUST	22E/E	11	1204	747	4.041		4.041				4.041					
11	CITY OF KINGSFORT, TENNESSEE	23	12.02	953	658		1.495	1.495					1.495				
12	JAMES D. NOTTINGHAM AND WIFE, MIRANDA C. NOTTINGHAM	22E/E	12	1369	478	0.115		0.115				0.115					
13	CITY OF KINGSFORT, TENNESSEE	23	12.02	953	658		1.257	1.257					1.257				
14	ANDREW SPARKMAN AND WIFE, TEANNA MOORE	45H/A	6.2	3275	939	1.411		1.411				1.411					
15	BILLIE J. MINTON	45I/A	4	3421	2077		1.530	1.530					1.530				
16	ANDREW SPARKMAN AND WIFE, TEANNA MOORE	45H/A	6.1	3275	939	4.525		4.525				4.525					
17	CSX RAILROAD	N/A	N/A														
17A	CSX RAILROAD	N/A	N/A														
18	VULCAN LANDS, INC.	45A/A	2.1	1550C	347	100.439		100.439				100.439					
19	DAVID L. LAWSON AND WIFE, DORIS A. LAWSON	45H/D	14	3105	19		0.852	0.852					0.852				
20	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS	45H/D	13	3102	65		0.767	0.767					0.767				
21	FORT ROBINSON REALTY	45B/C	24	P85	321	37.604		37.604				37.604					
22	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS AND CYN	45H/D	12	3102	65		0.471	0.471					0.471				
23	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS AND CYN	45H/D	11	3102	65		0.535	0.535					0.535				
24	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS AND CYN	45H/D	10	3102	65		0.524	0.524					0.524				
25	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS AND CYN	45H/D	9	3102	65		0.510	0.510					0.510				
26	ERNEST A. THOMAS AND SHIRLEY A. THOMAS AND CYNDE L.	45H/D	8	2740C	452		0.712	0.712					0.712				
27	ERNEST A. THOMAS, AND WIFE SHIRLEY A. THOMAS AND CYN	45H/D	6	3102	65		0.672	0.672					0.672				
28	GARY S. HARBIN AND WIFE, ANDREA J. HARBIN	45H/D	5	2508C	377		0.411	0.411					0.411				
29	MARY LESTER KILPATRICK	45H/D	4	2145C	190		4.133	4.133					4.133				
30	LARRY S. BISHOP AND WIFE, JAMIE L. BISHOP	45H/D	3	1477C	802		0.414	0.414					0.414				
31	JAMES H. PARKER AND WIFE, SALLY B. PARKER	45H/D	2	1478C	1		0.414	0.414					0.414				

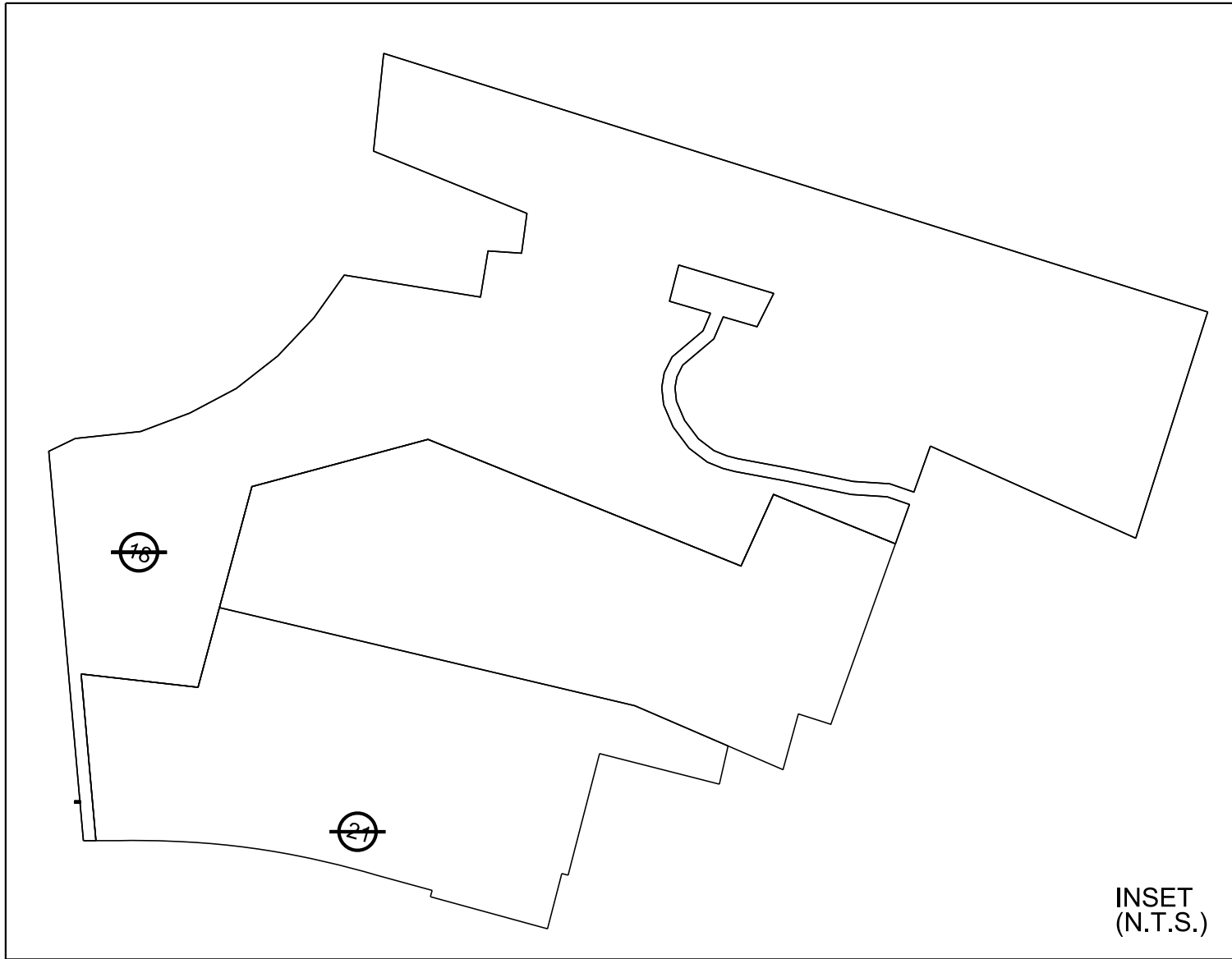
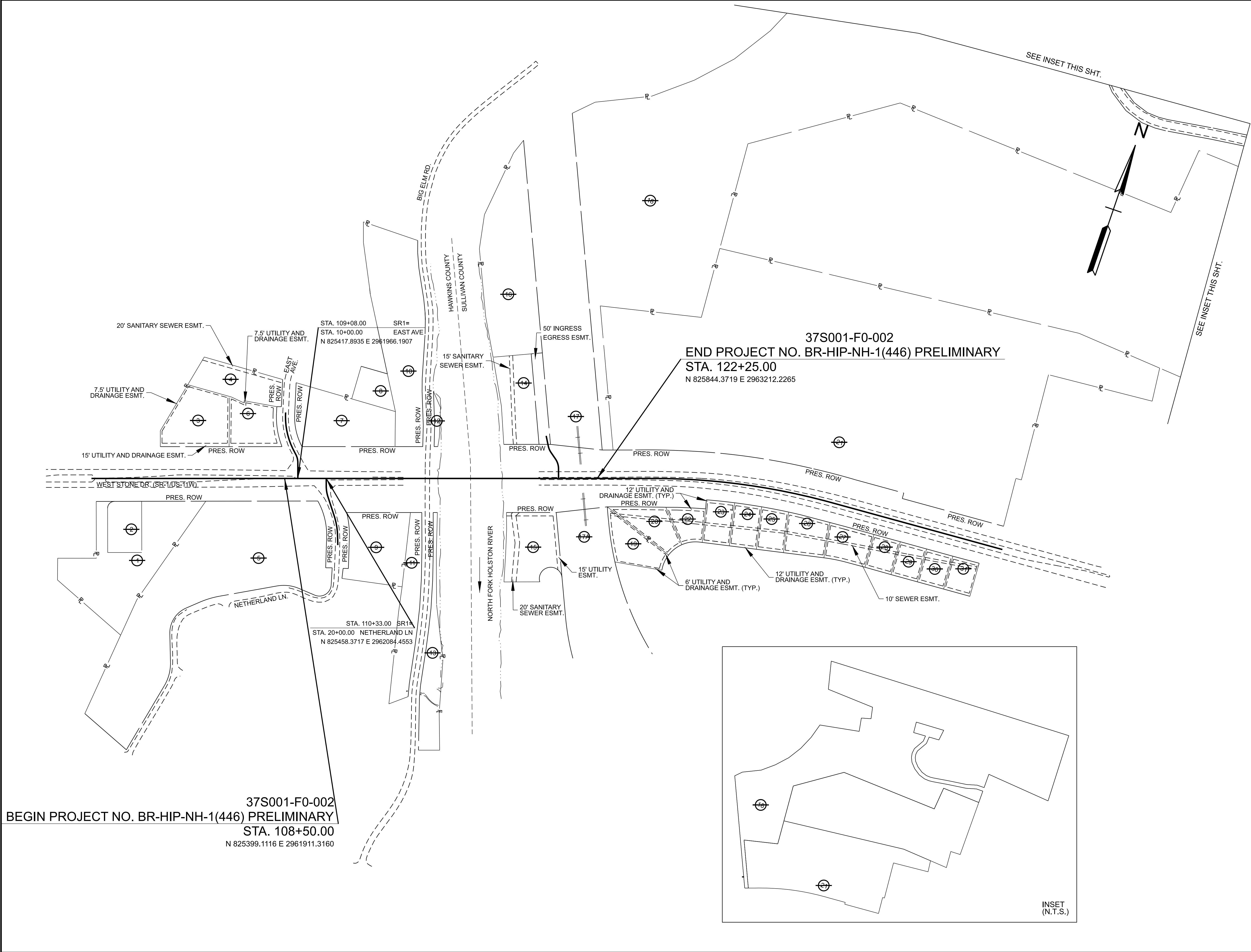
DISTURBED AREA		
IN BETWEEN SLOPE LINES	5.769	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	1.213	(AC)
TOTAL DISTURBED AREA	6.982	(AC)
TOTAL PROJECT AREA	6.982	(AC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	3A

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY ACQUISITION TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	3B



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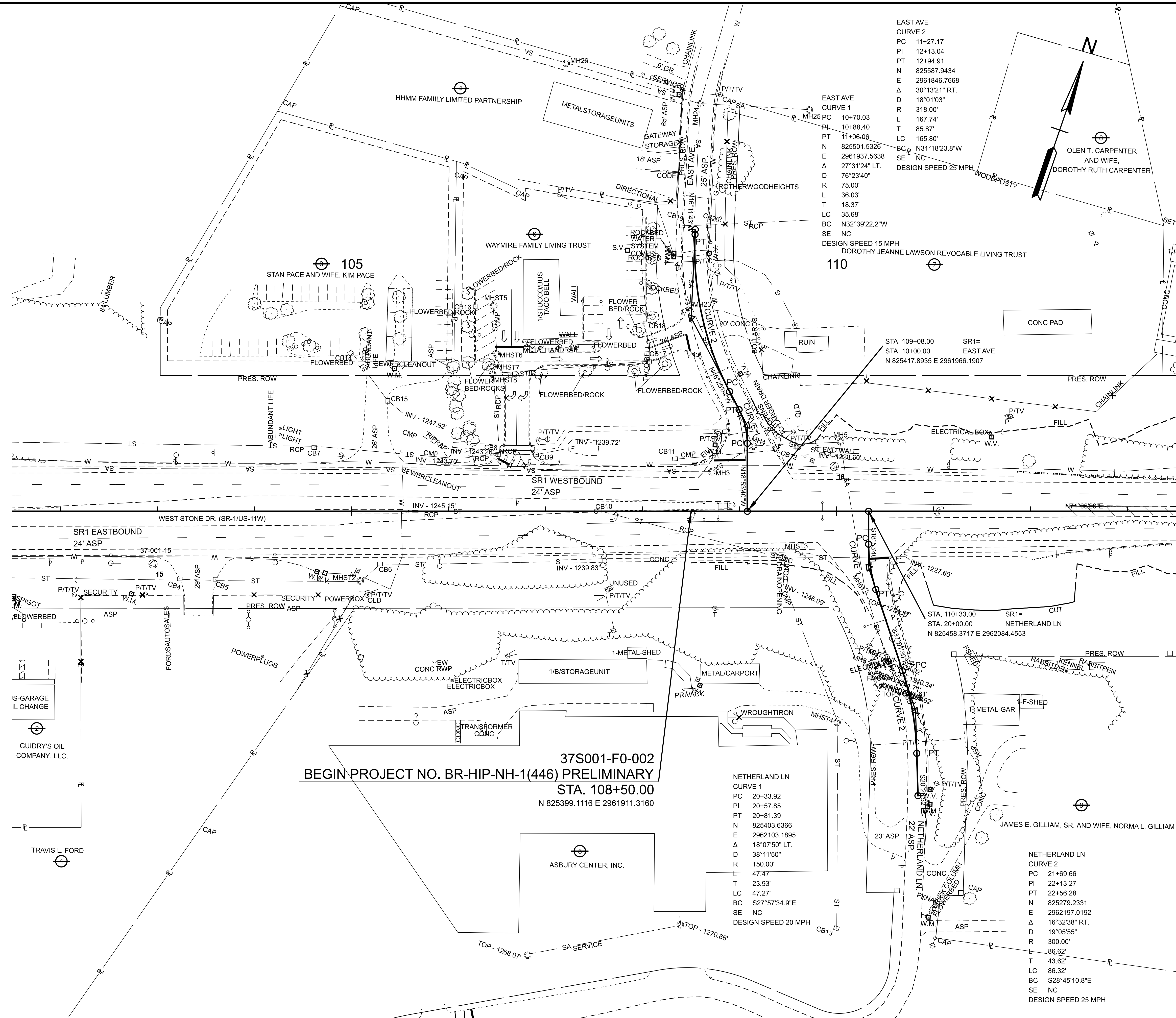
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

STA. 98+00.00 TO STA. 146+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	4



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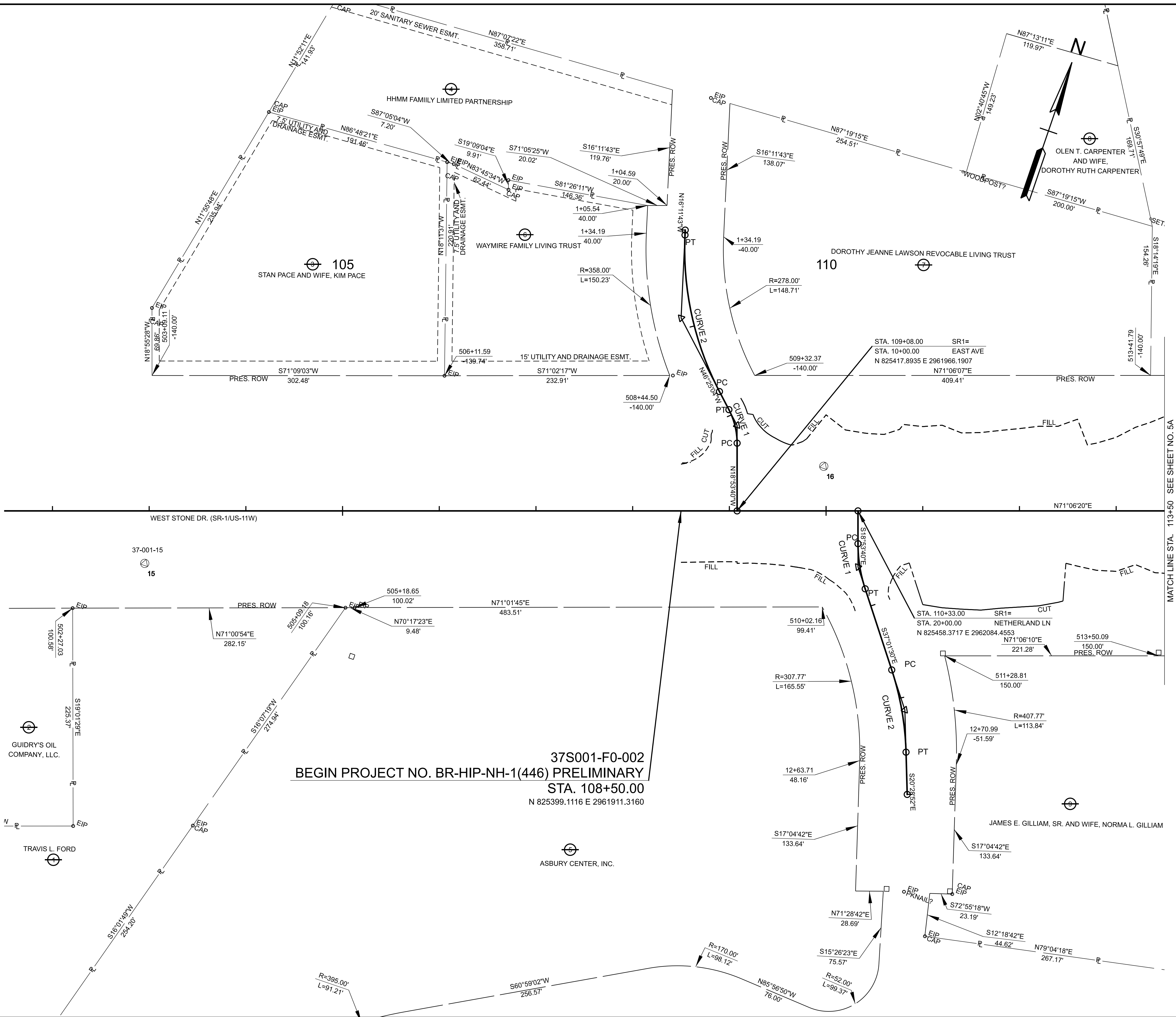
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ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 18 MODE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 101+50.00 TO STA. 113+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	4A



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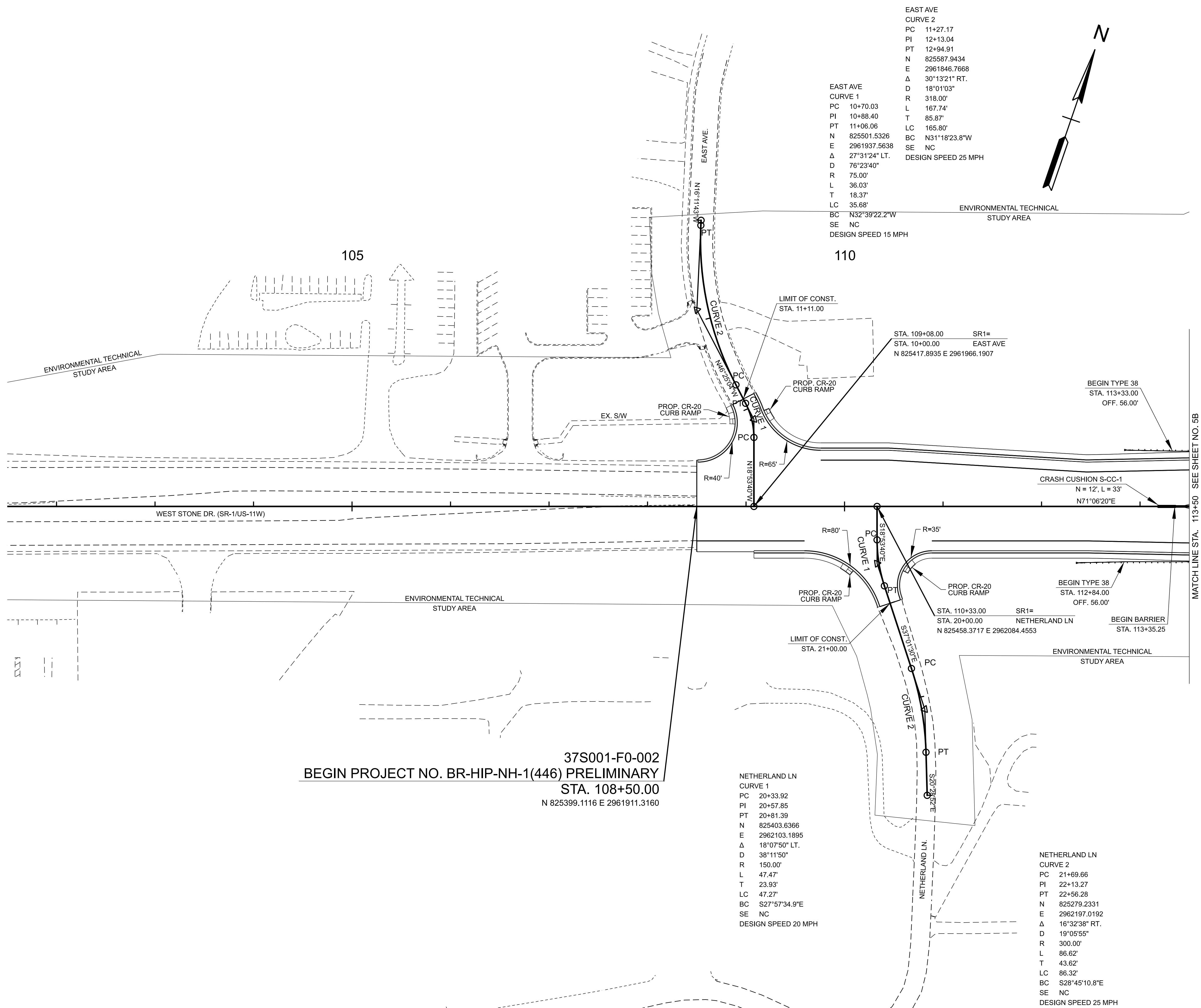
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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**RIGHT-OF-WAY
DETAILS**

STA. 101+50.00 TO STA. 113+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	4B



37S001-F0-002
BEGIN PROJECT NO. BR-HIP-NH-1(446) PRELIMINARY
STA. 108+50.00
N 825399.1116 E 2961911.3160

NETHERLAND LN
CURVE 1
PC 20+33.92
PI 20+57.85
PT 20+81.39
N 825403.6366
E 2962103.1895
Δ 18°07'50" LT.
D 38°11'50"
R 150.00'
L 47.47'
T 23.93'
LC 47.27'
BC S27°57'34.9"E
SE NC
DESIGN SPEED 20 MPH

NETHERLAND LN
CURVE 2
PC 21+69.66
PI 22+13.27
PT 22+56.28
N 825279.2331
E 2962197.0192
Δ 16°32'38" RT.
D 19°05'55"
R 300.00'
L 86.62'
T 43.62'
LC 86.32'
BC S28°45'10.8"E
SE NC
DESIGN SPEED 25 MPH

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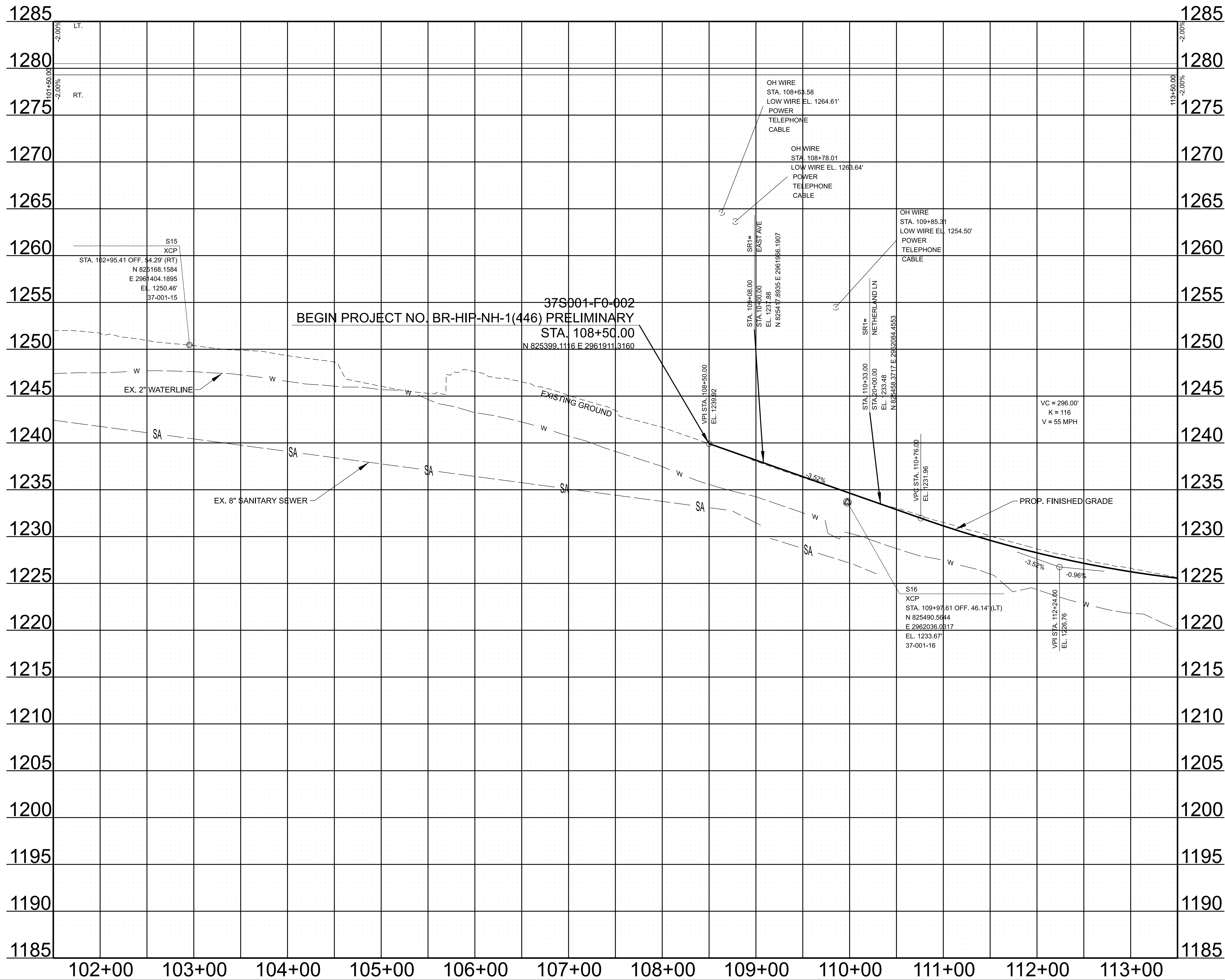
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 101+50.00 TO STA. 113+50.00
SCALE: 1" = 50'

11/13/2025 3:55:06 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER 124387-0003 DESIGN\05-CAD\SHEETS\37S001-SHT-PROPOSED PROFILES.DGN



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	4C

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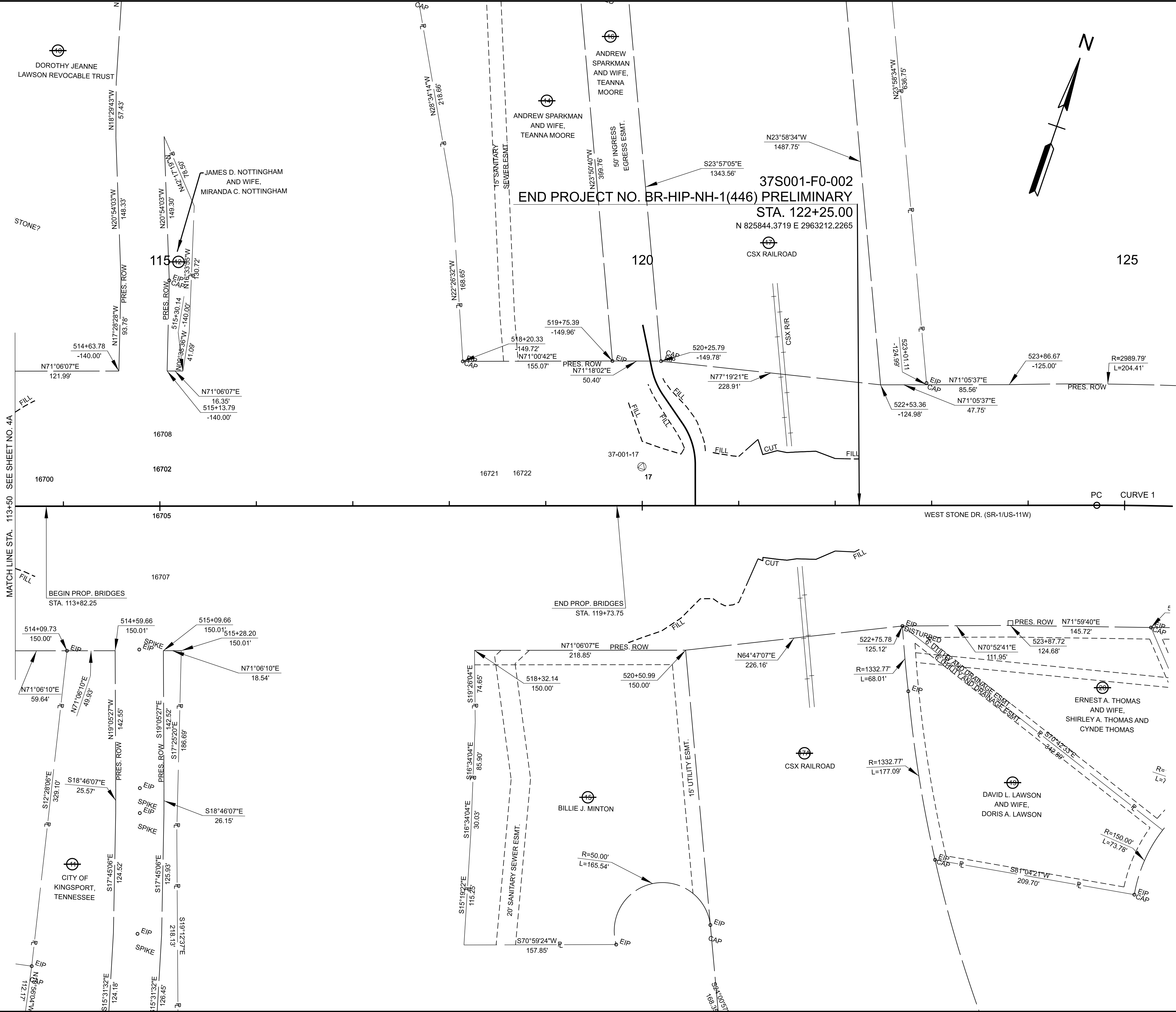
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
PROFILE**

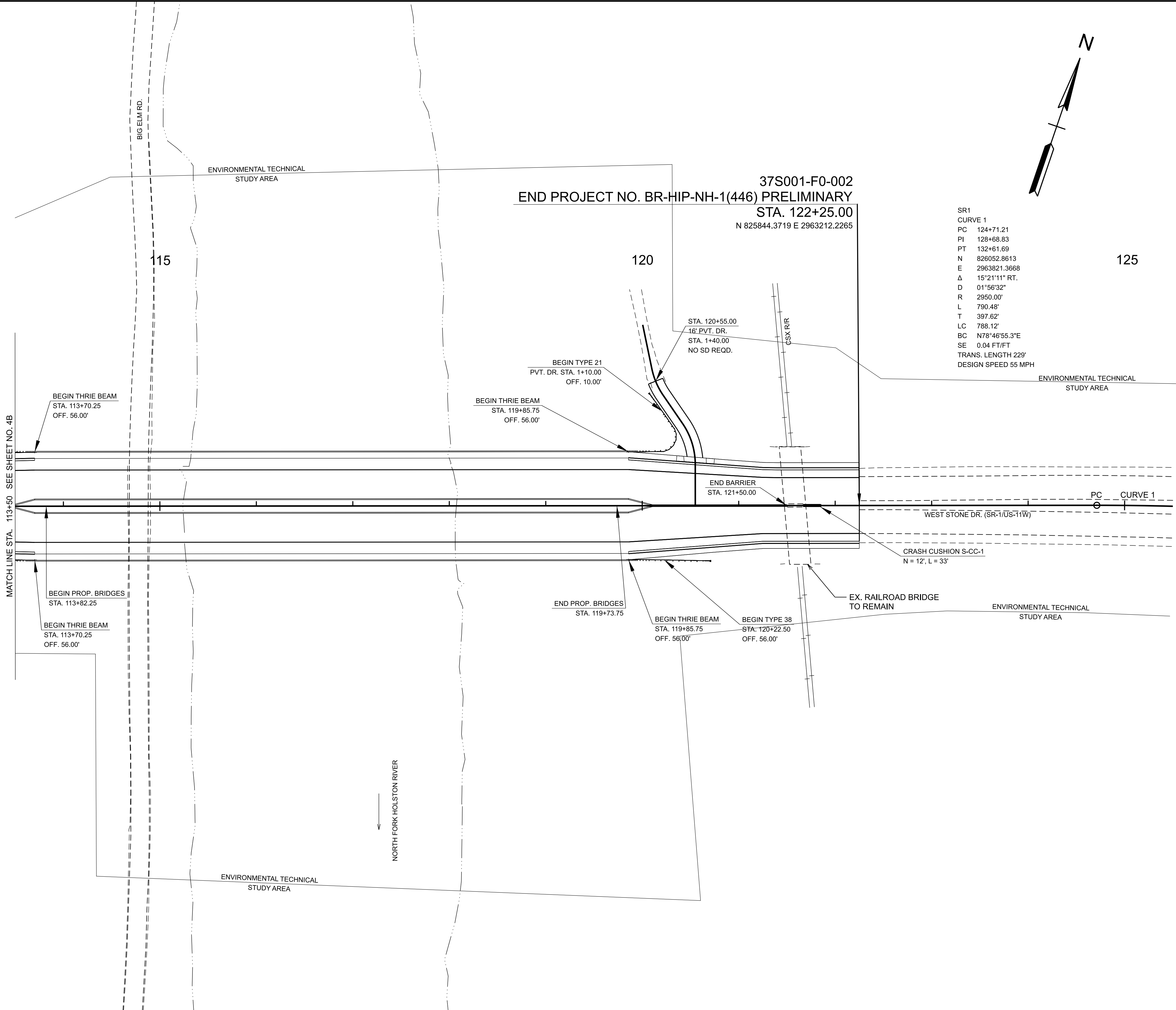
STA. 101+50.00 TO STA. 113+50.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	5A

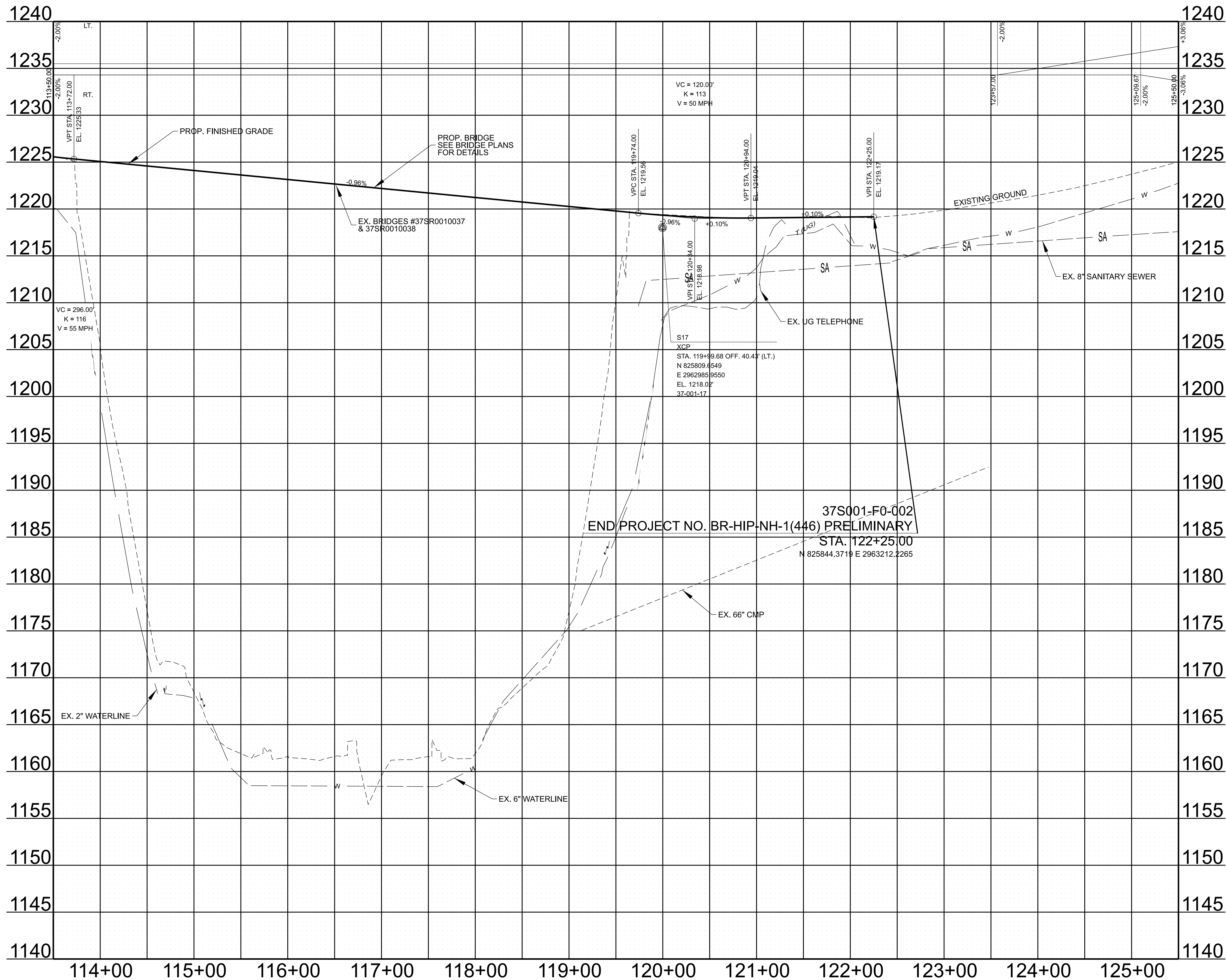


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	5B



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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 MODEL.	
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION	
PROPOSED LAYOUT	
STA. 113+50.00 TO STA. 125+50.00 SCALE: 1" = 50'	

11/13/2025 3:55:20 PM H:\46159 - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER 124387-0003 DESIGN\05-CAD\SHEETS\37S001-SHT-PROPOSED PROFILES.DGN



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	5C

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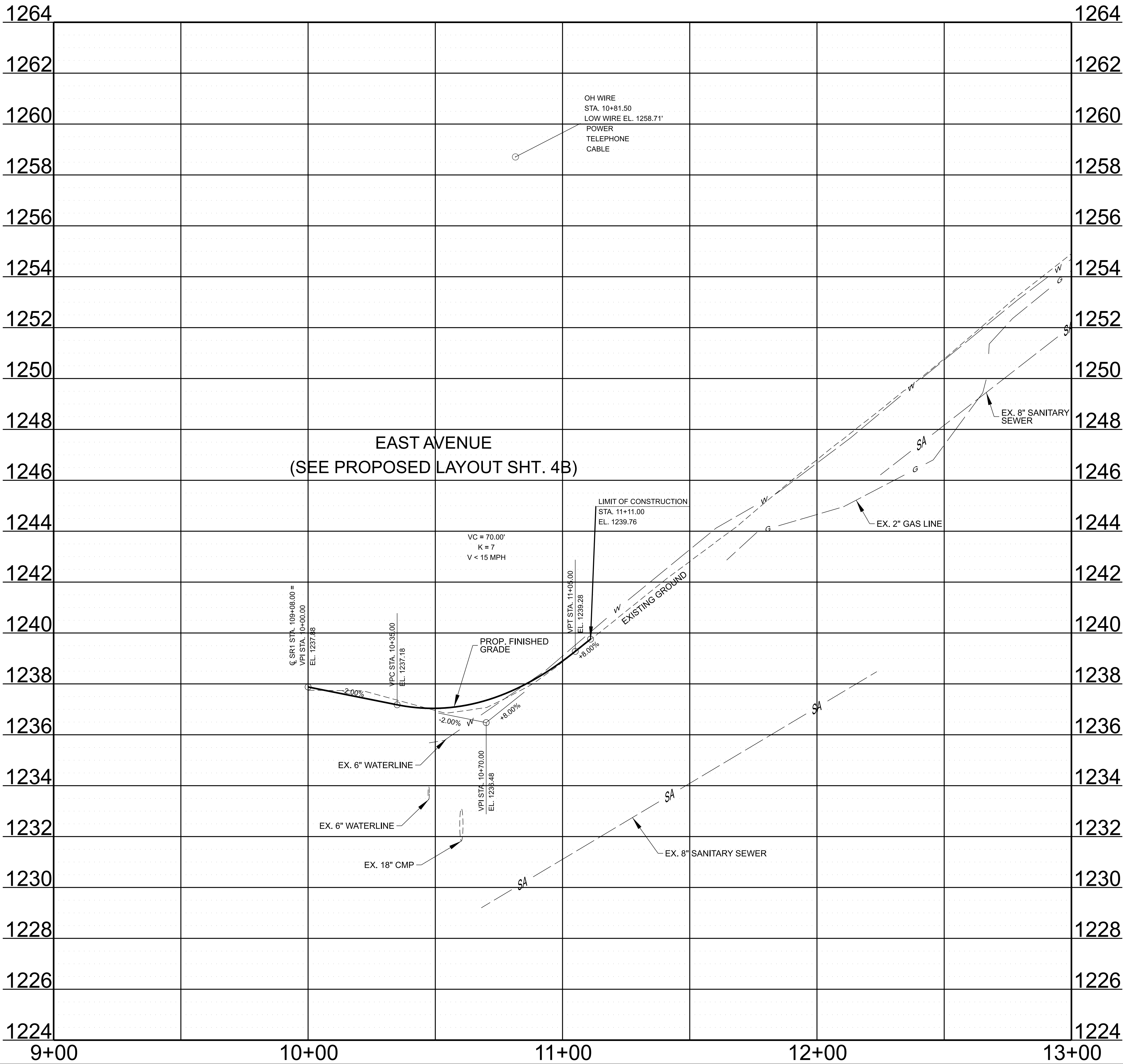
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
PROFILE**

STA. 113+50.00 TO STA. 125+50.00

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

11/13/2025 3:55:24 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER 124387-0003 DESIGN\05-CAD\SHEETS\375001-SHT-PROPOSED SIDEROAD PROFILES.DGN

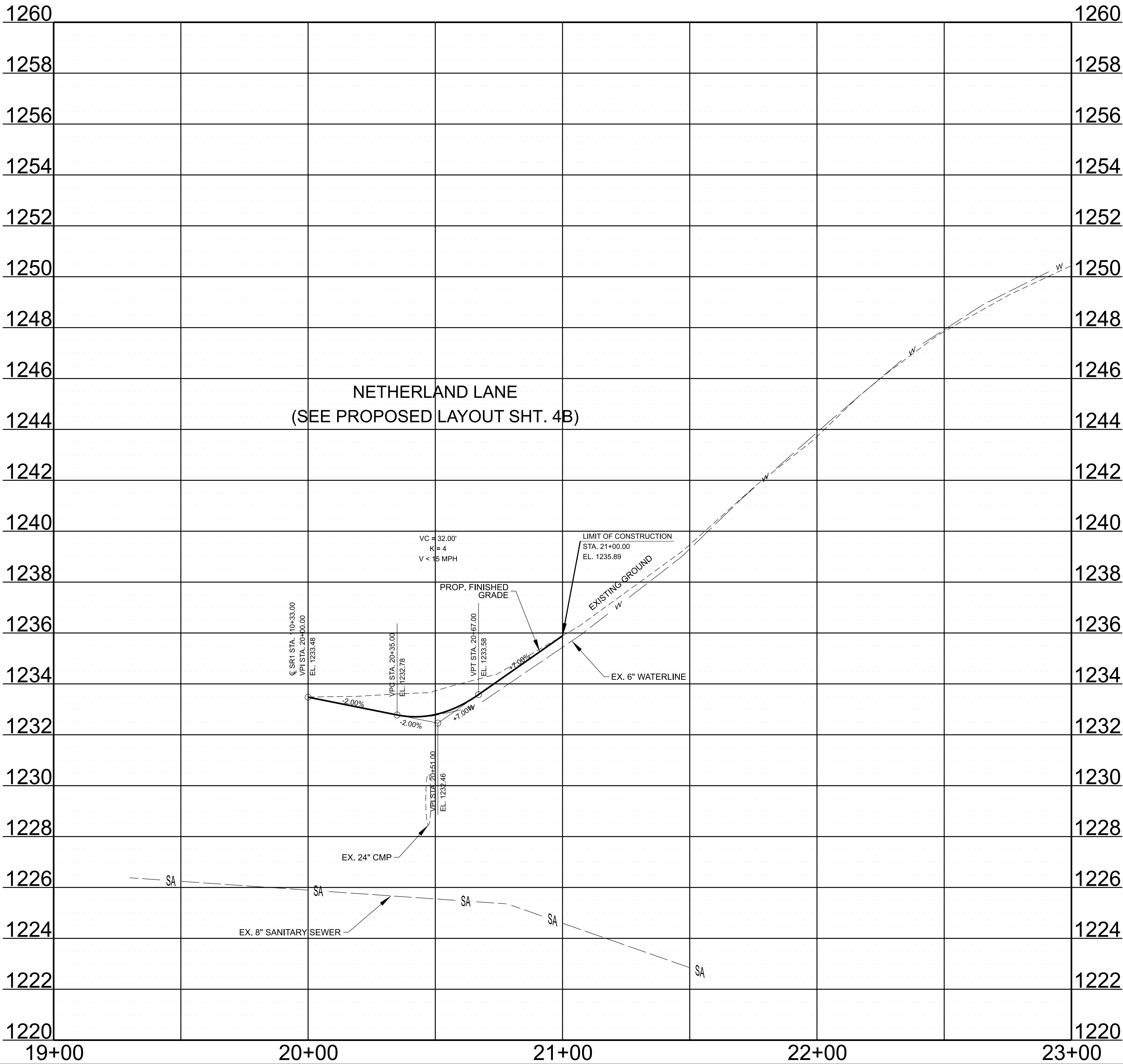


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	6

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
SIDE ROAD PROFILE STA. 9+00.00 TO STA. 13+00.00 SCALE: 1" = 20' HORIZ. 1" = 2' VERT.

11/13/2025 3:55:24 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER 124387-0003 DESIGN\05-CAD\SHEETS\375001-SHT-PROPOSED SIDEROAD PROFILES.DGN

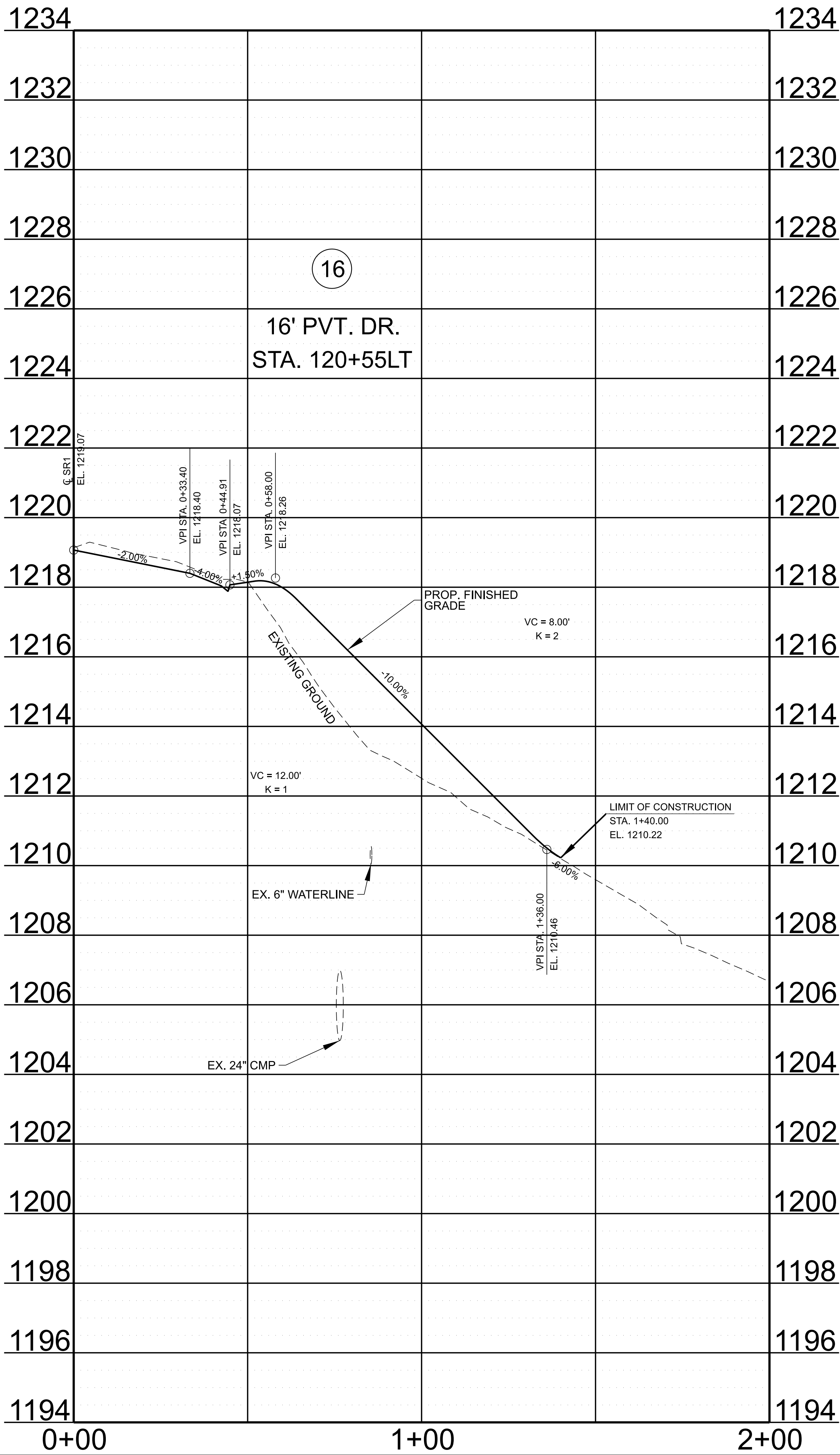


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	7

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
SIDE ROAD PROFILE
STA. 19+00.00 TO STA. 23+00.00
SCALE: 1" = 20' HORIZ. 1" = 2' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	8

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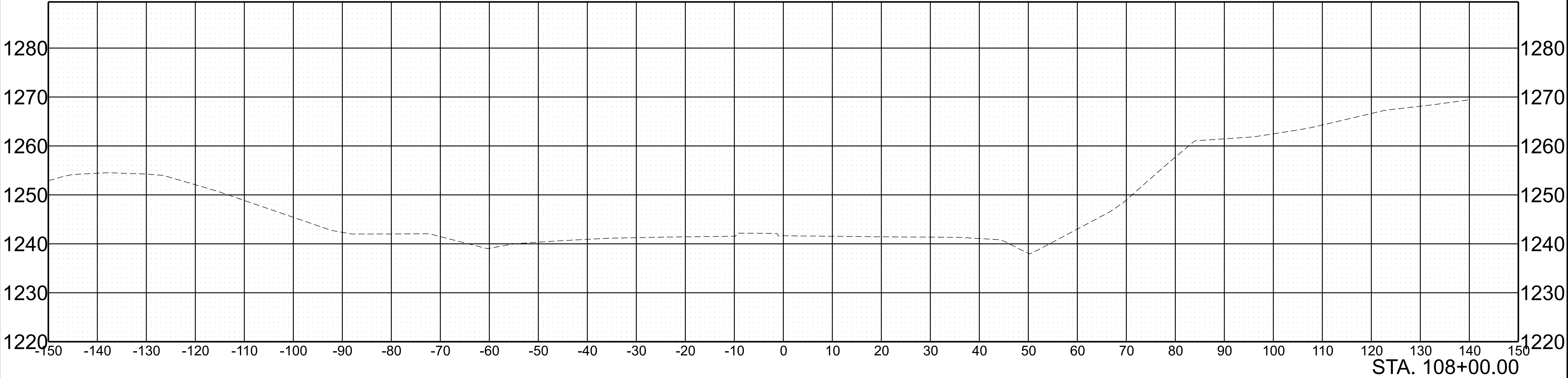
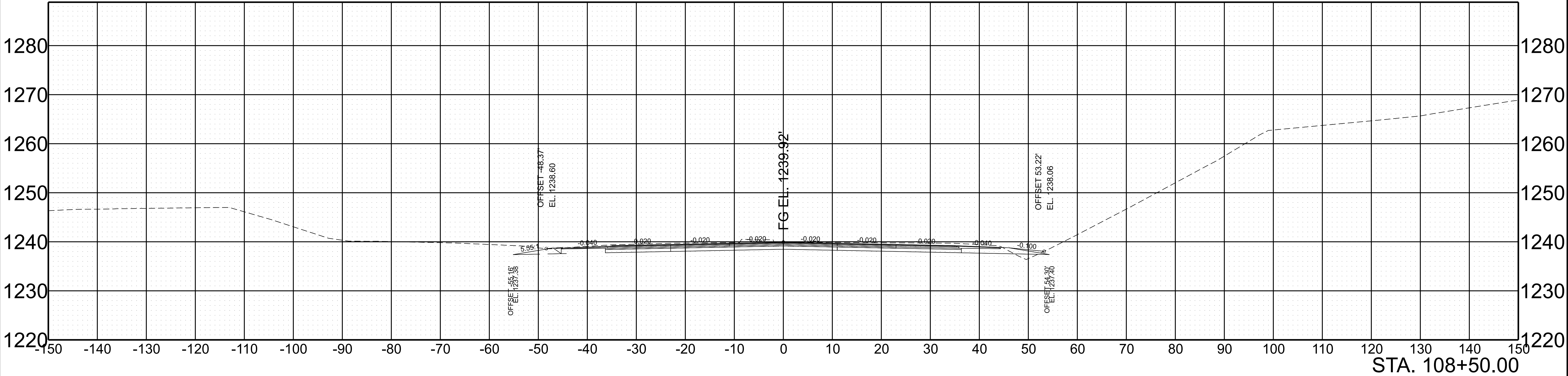
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

PRIVATE DRIVE,
BUSINESS, AND
FIELD ENTRANCE
PROFILE

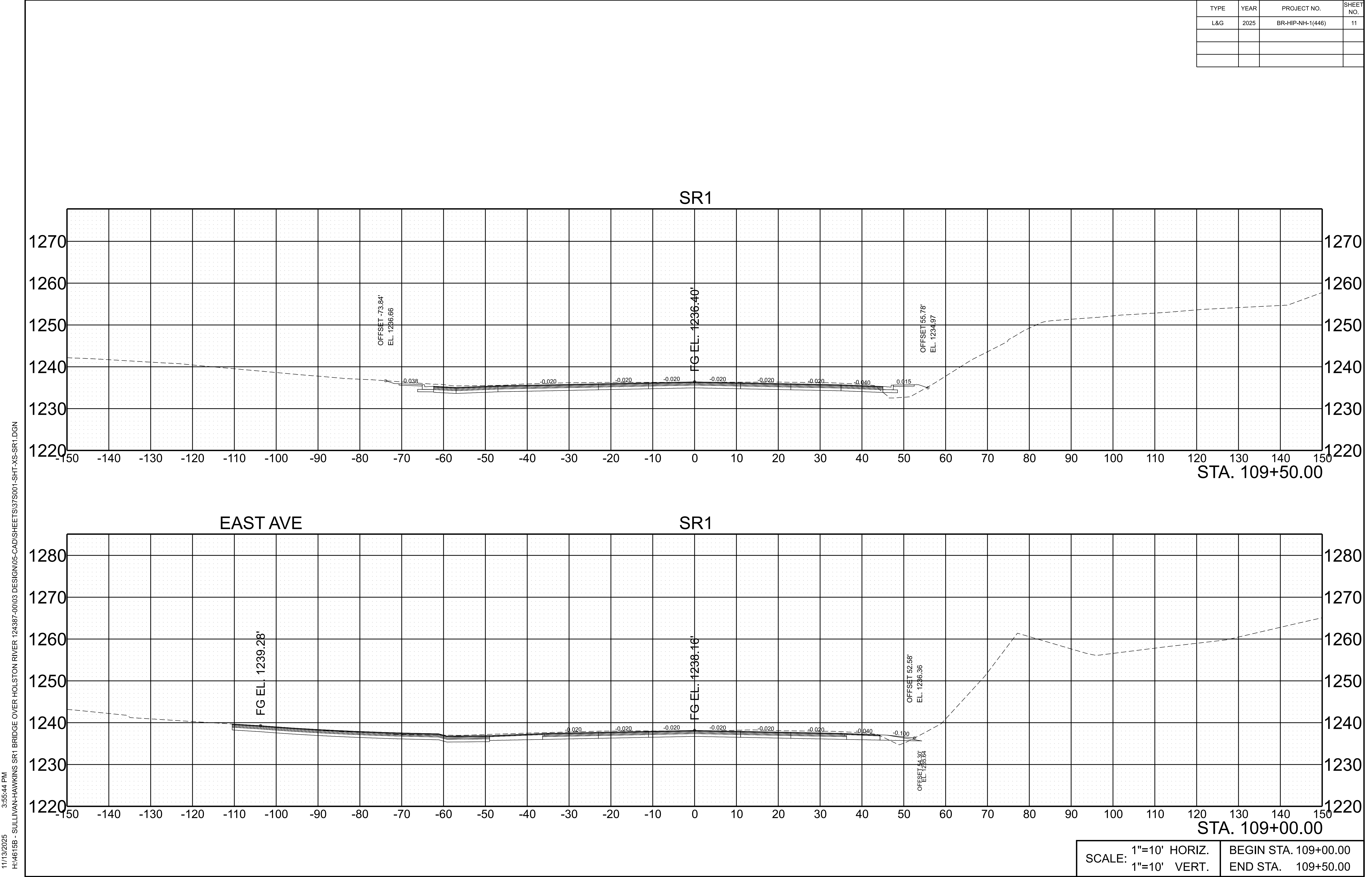
SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	10

SR1



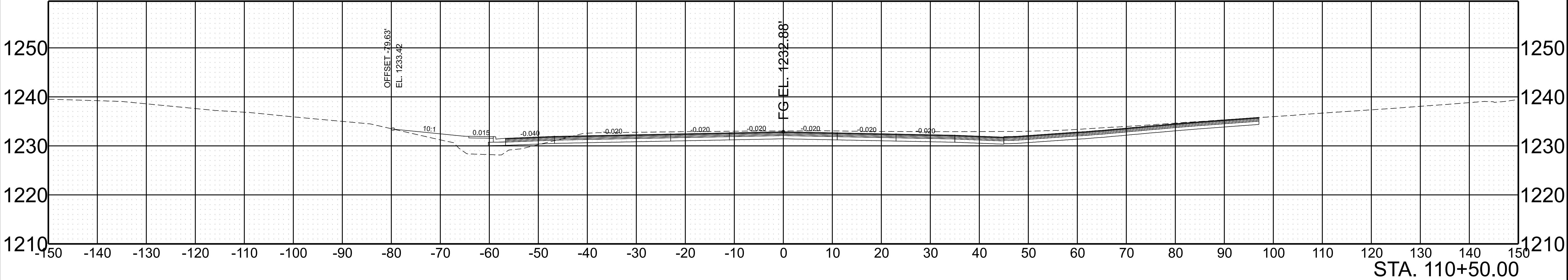
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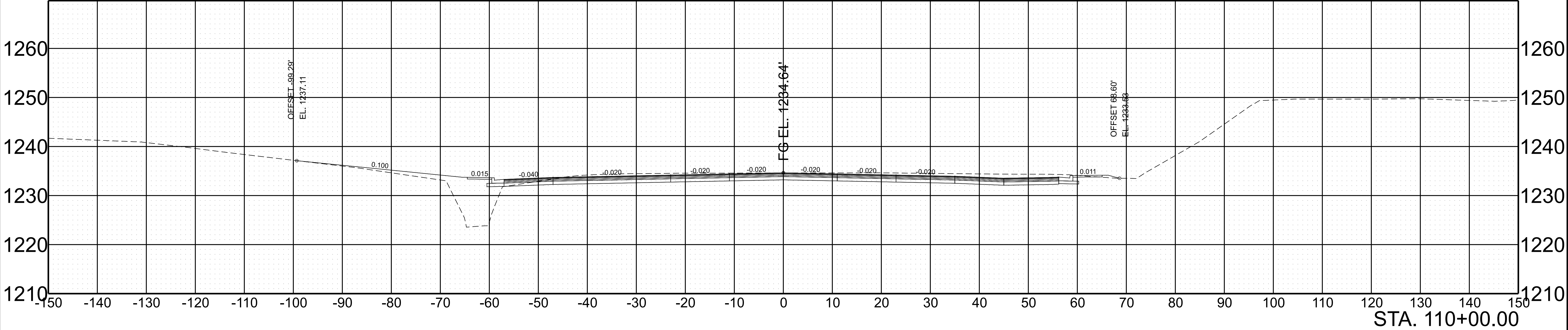
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	12

SR1



SR1

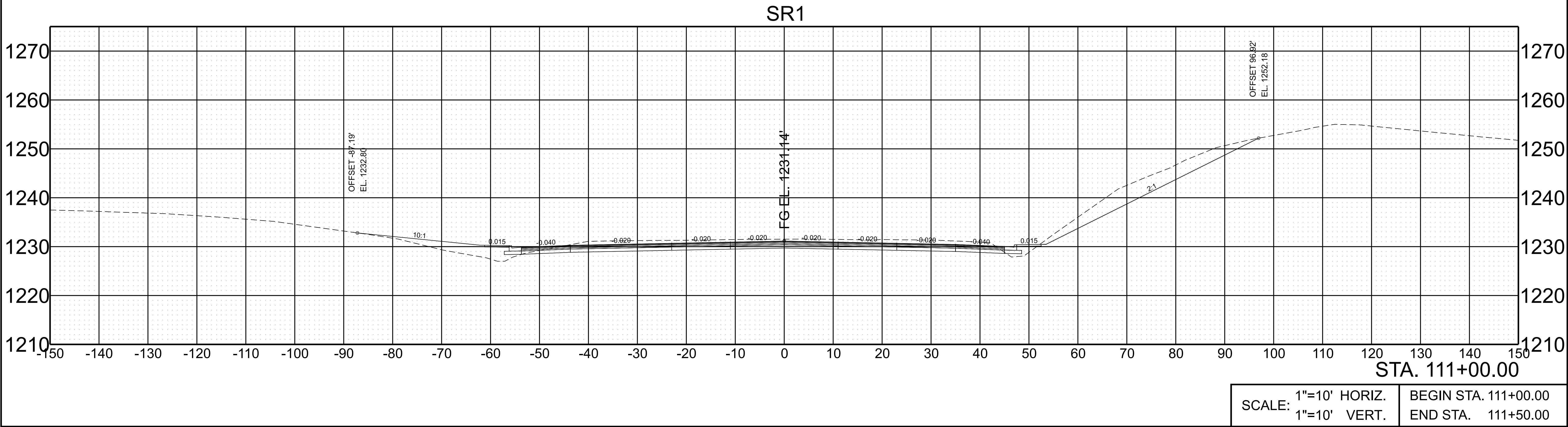
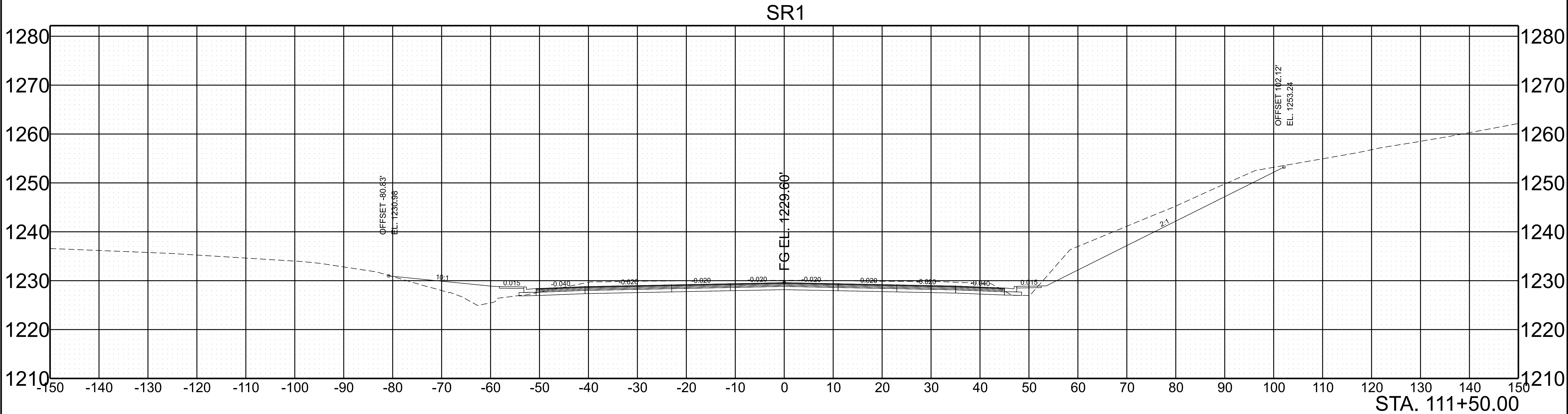


SCALE: 1"=10' HORIZ.
1"=10' VERT.

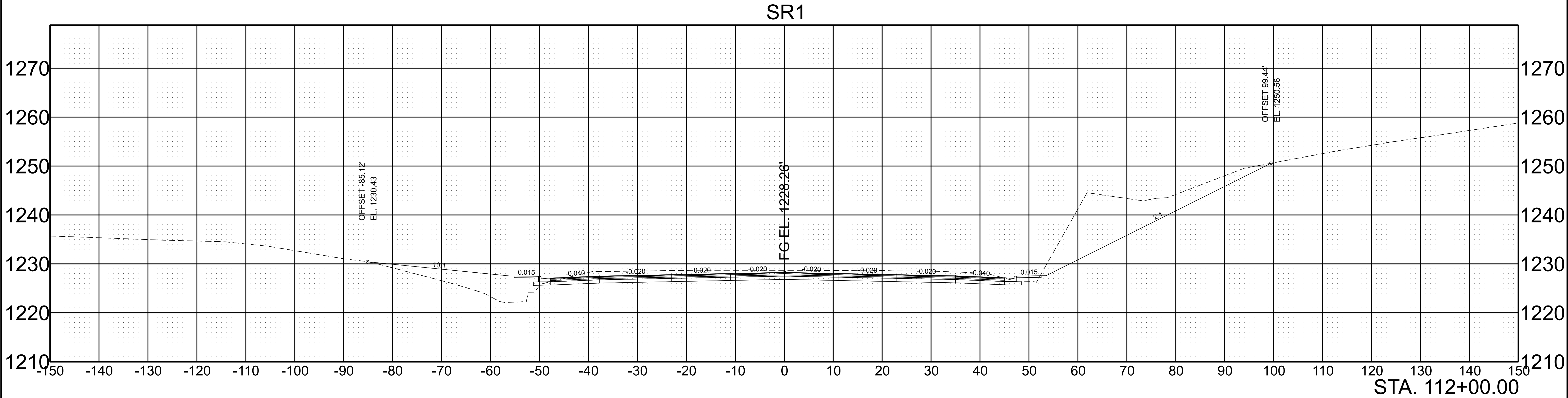
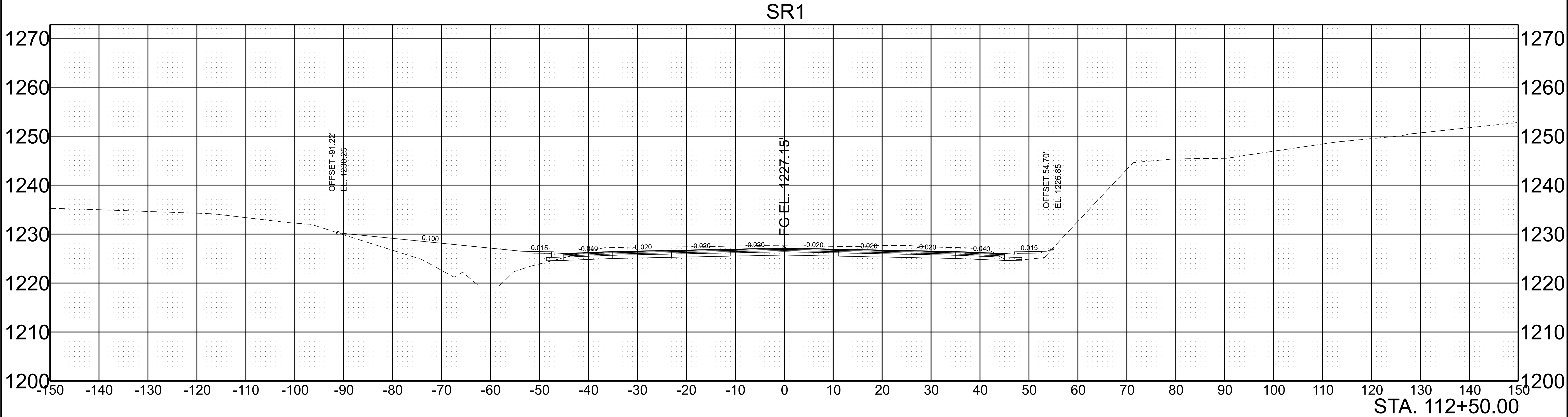
BEGIN STA. 110+00.00
END STA. 110+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	13



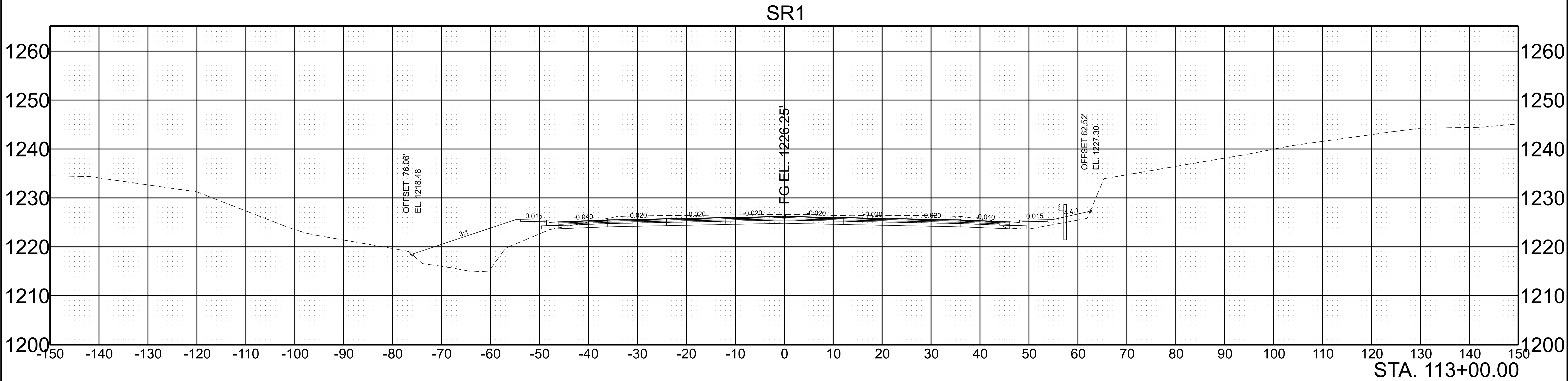
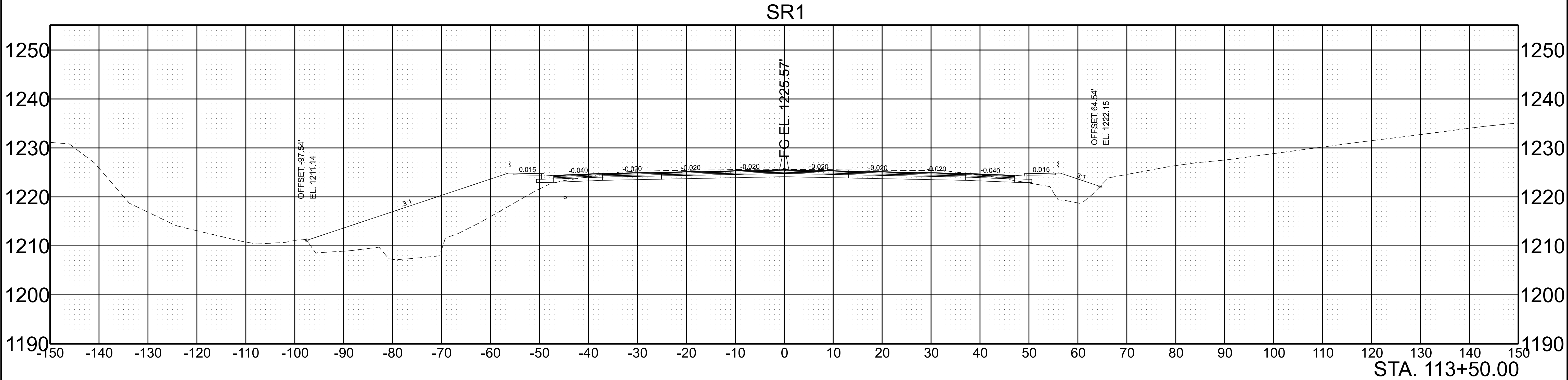
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	14



SCALE: 1"=10' HORIZ.	BEGIN STA. 112+00.00
1"=10' VERT.	END STA. 112+50.00

11/13/2025 3:55:54 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER \24387-00\03 DESIGN\05-CAD\SHEETS\37S001-SHT-XS-SR1.DGN

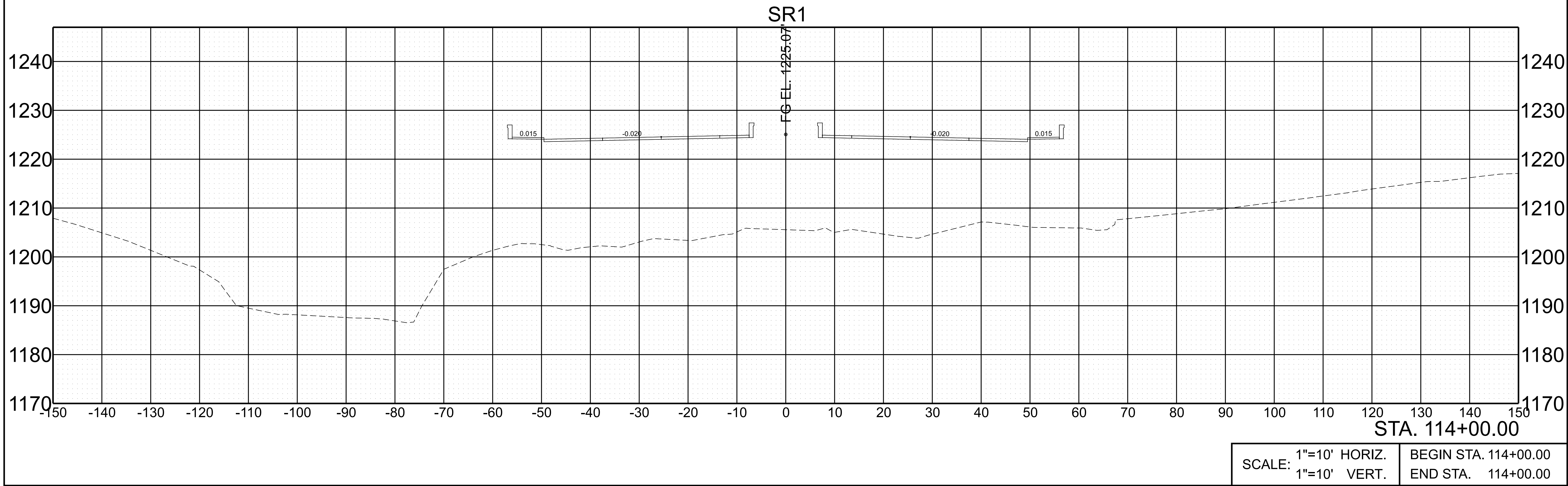
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	15



SCALE: 1"=10' HORIZ.	BEGIN STA. 113+00.00
1"=10' VERT.	END STA. 113+50.00

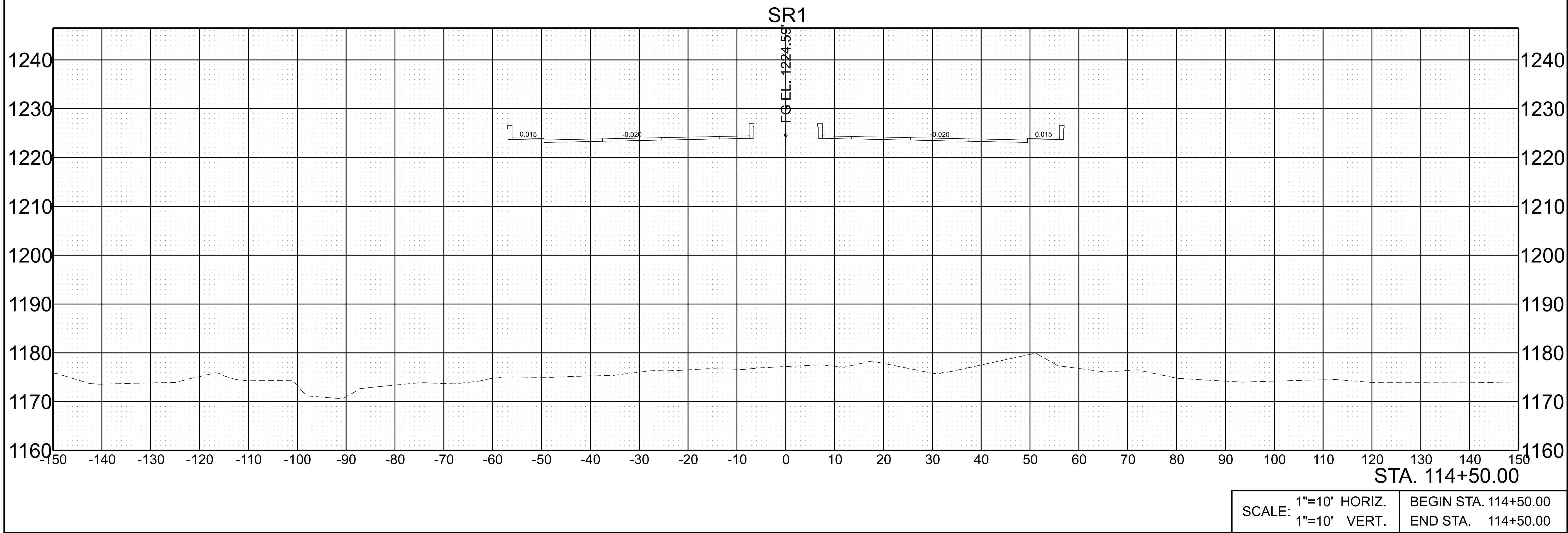
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	16



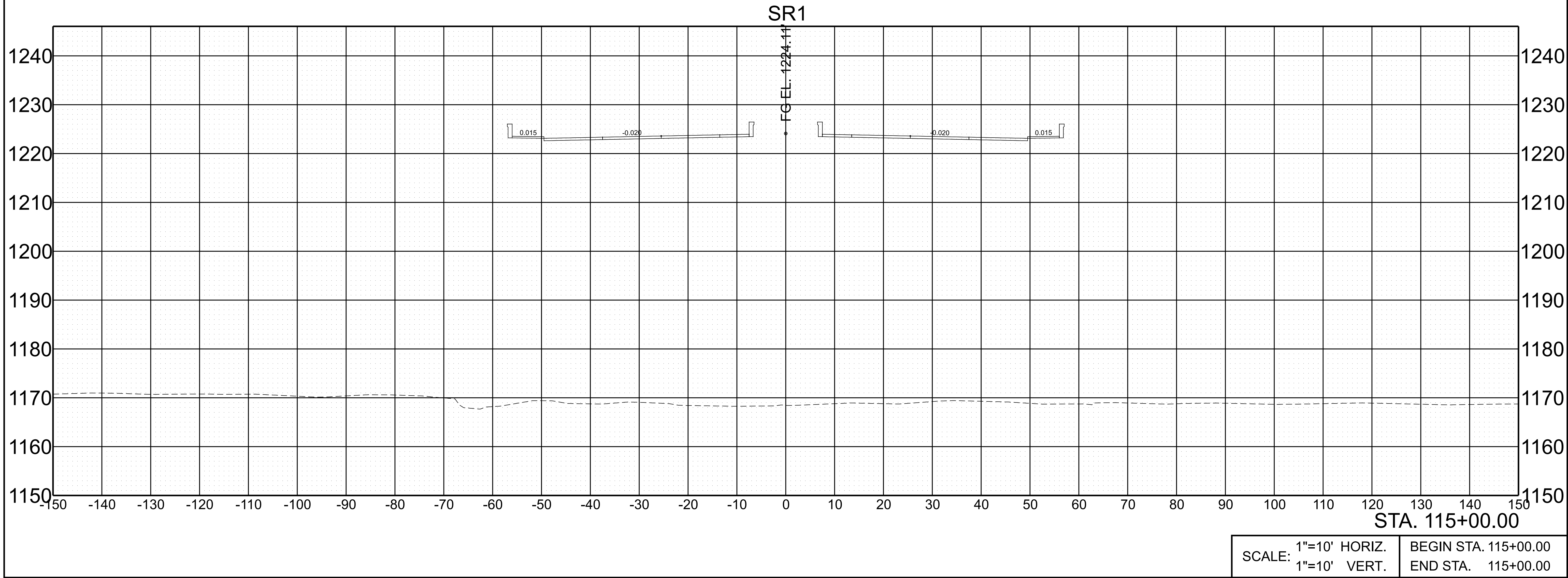
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	17



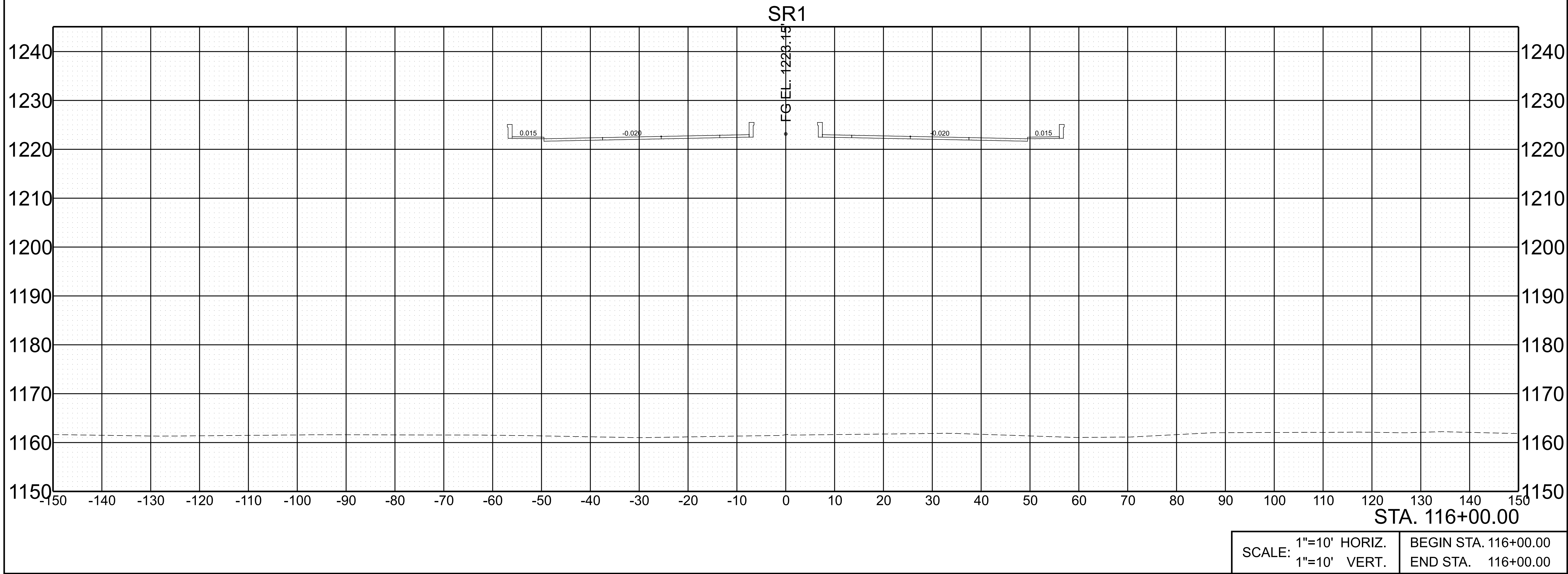
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	18



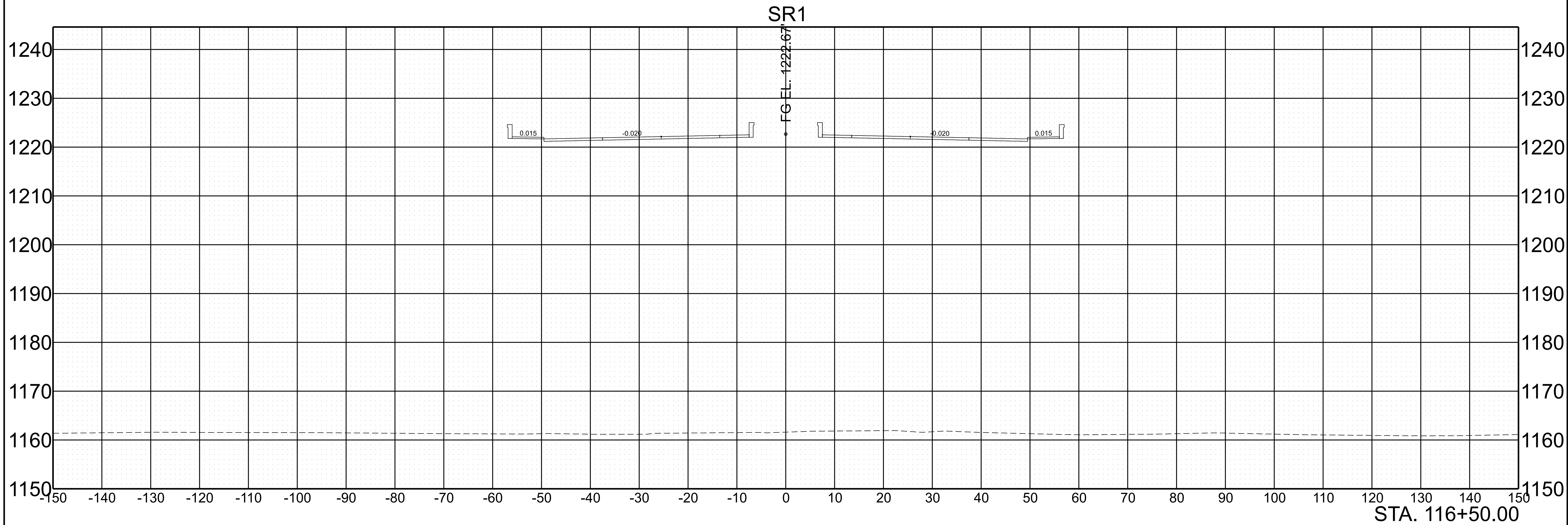
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	20



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	21

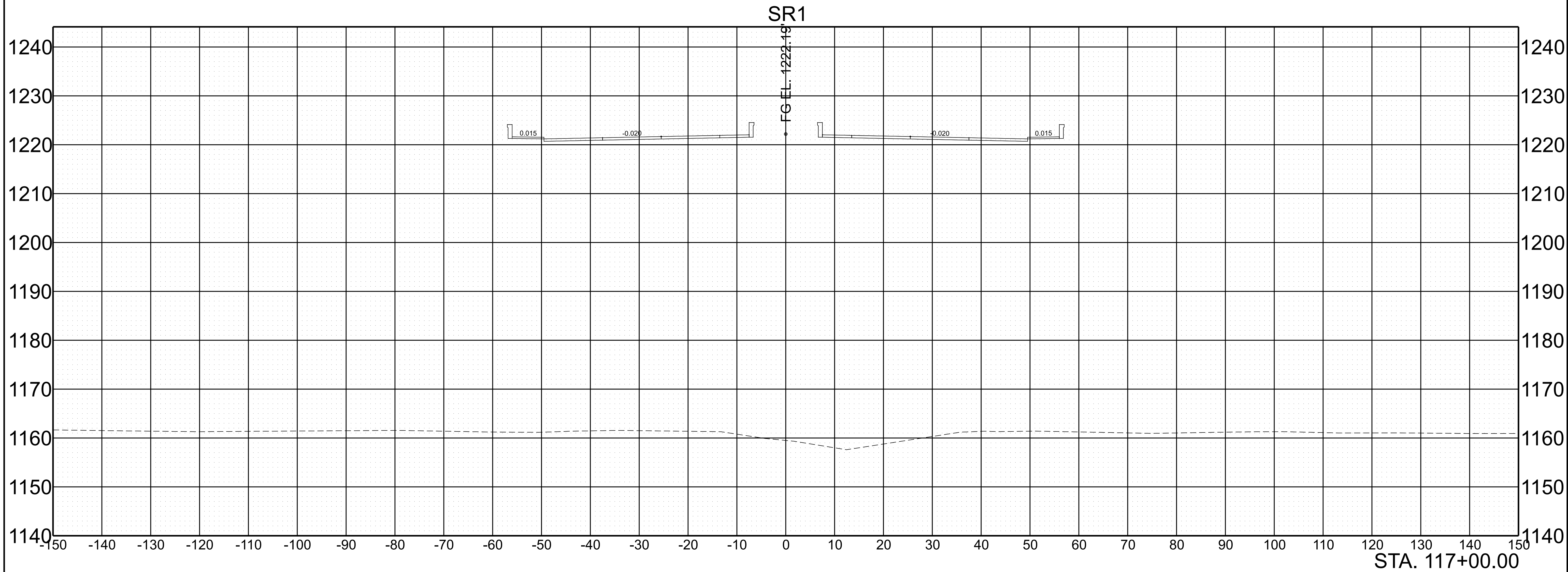
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SCALE:	1"=10' HORIZ.	BEGIN STA. 116+50.00
	1"=10' VERT.	END STA. 116+50.00

11/13/2025 3:56:03 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER \24387-00\03 DESIGN\05-CAD\SHEETS\375001-SHT-XS-SR1.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	22

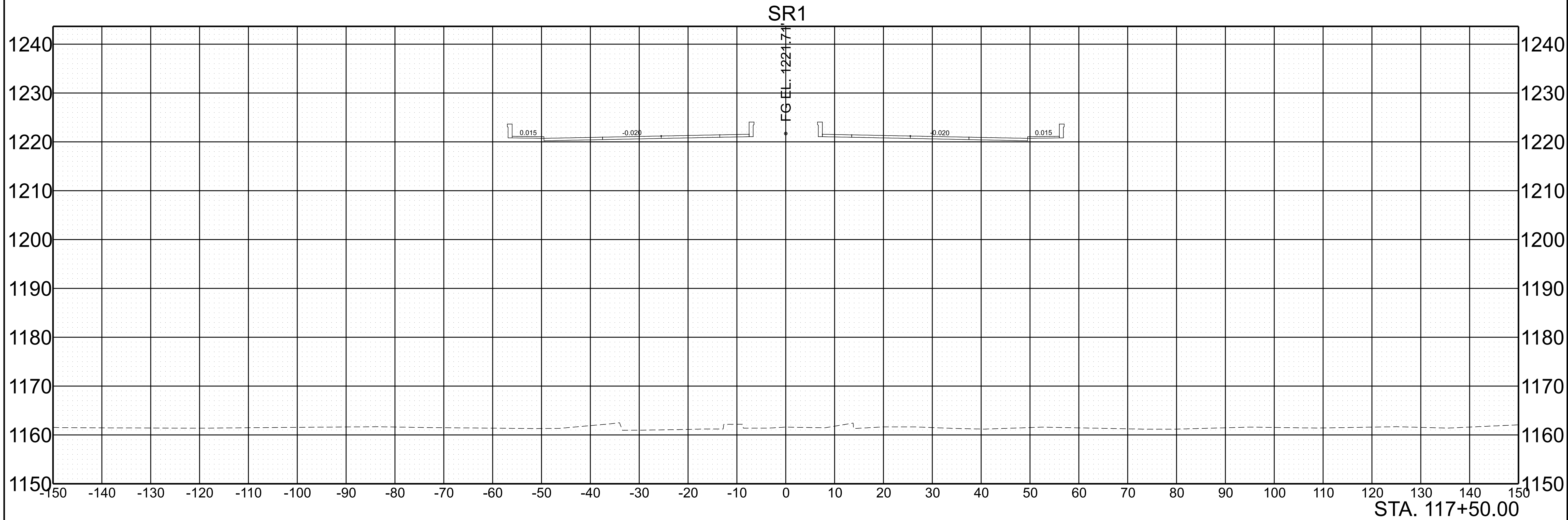


STA. 117+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 117+00.00
	1"=10' VERT.	END STA. 117+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	23

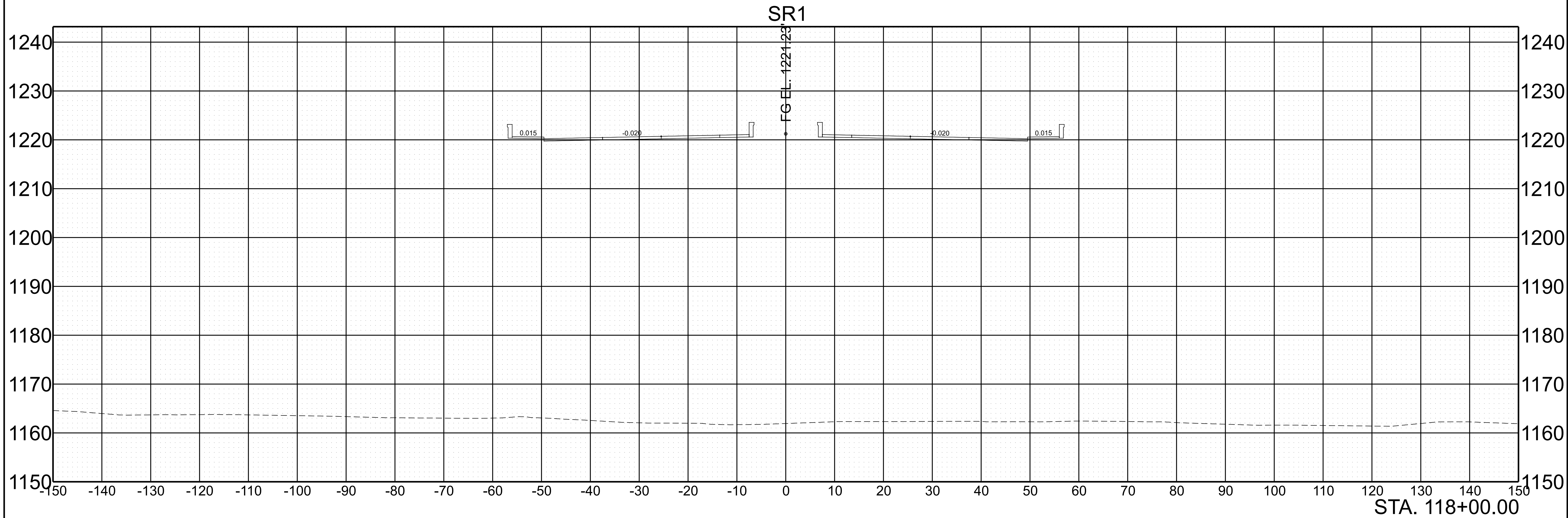
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SCALE: 1"=10' HORIZ.	BEGIN STA. 117+50.00
1"=10' VERT.	END STA. 117+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	24

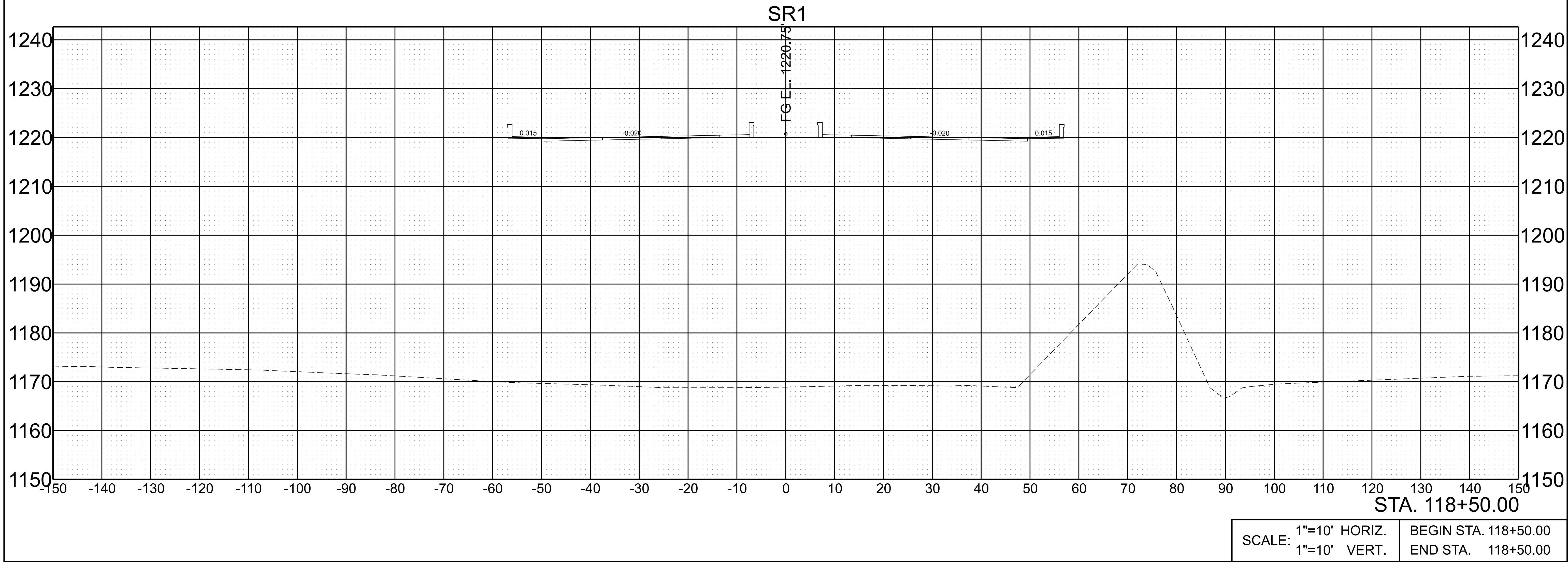
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SCALE: 1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 118+00.00 END STA. 118+00.00
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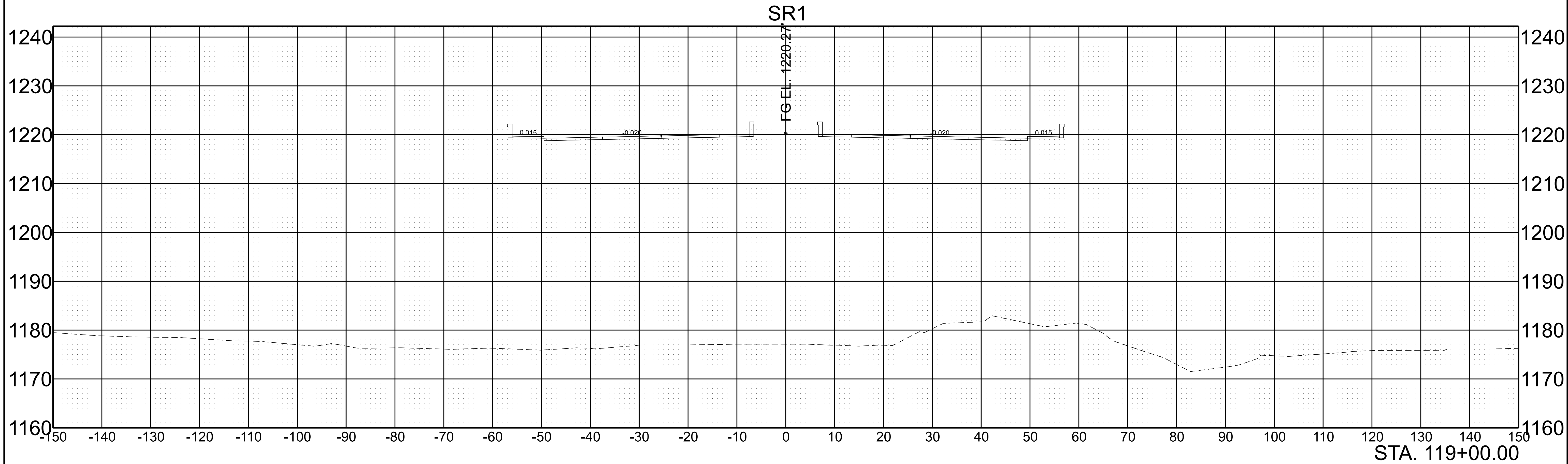
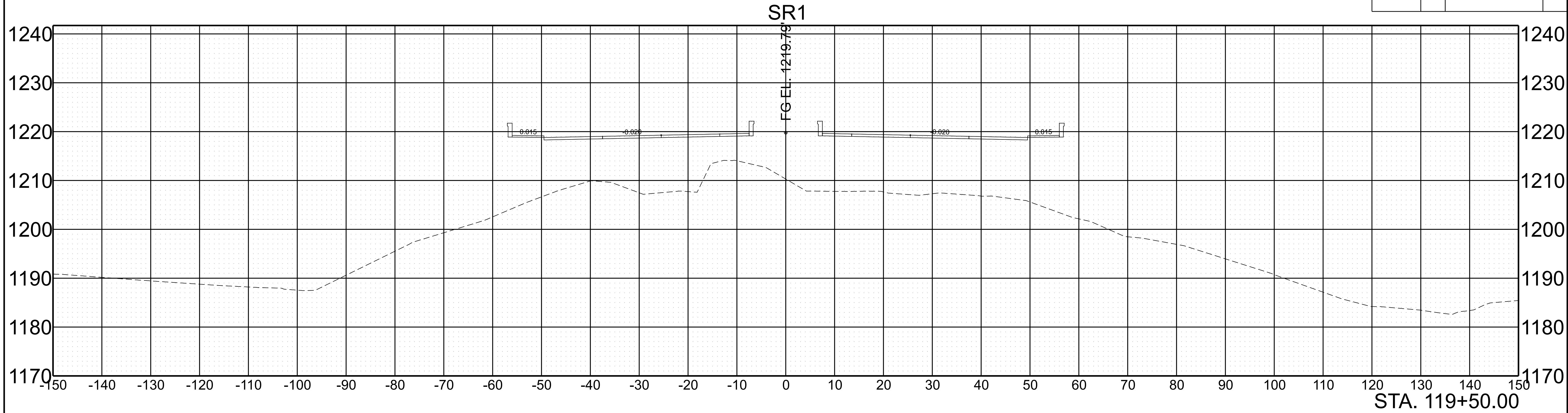
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	25

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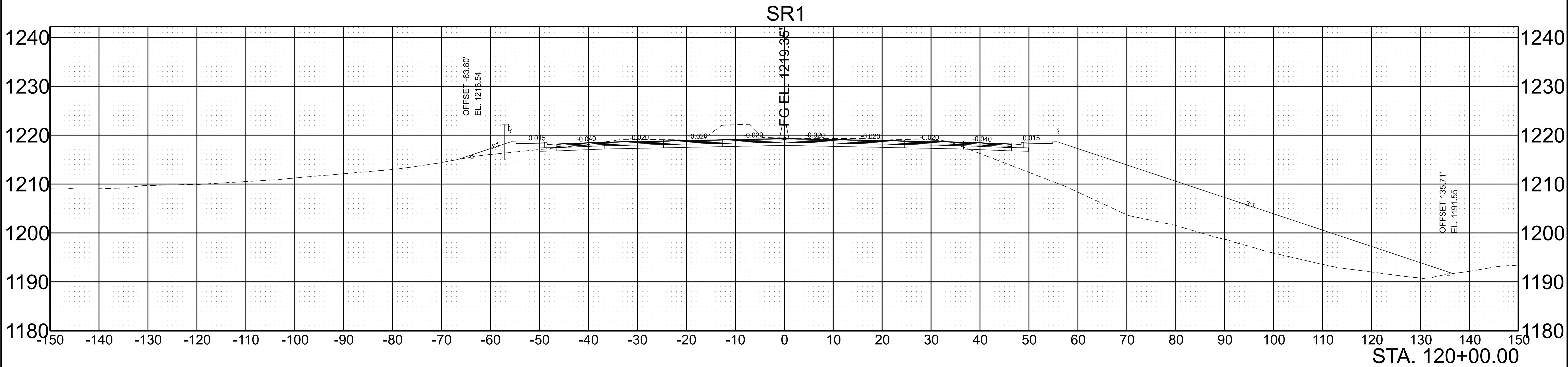
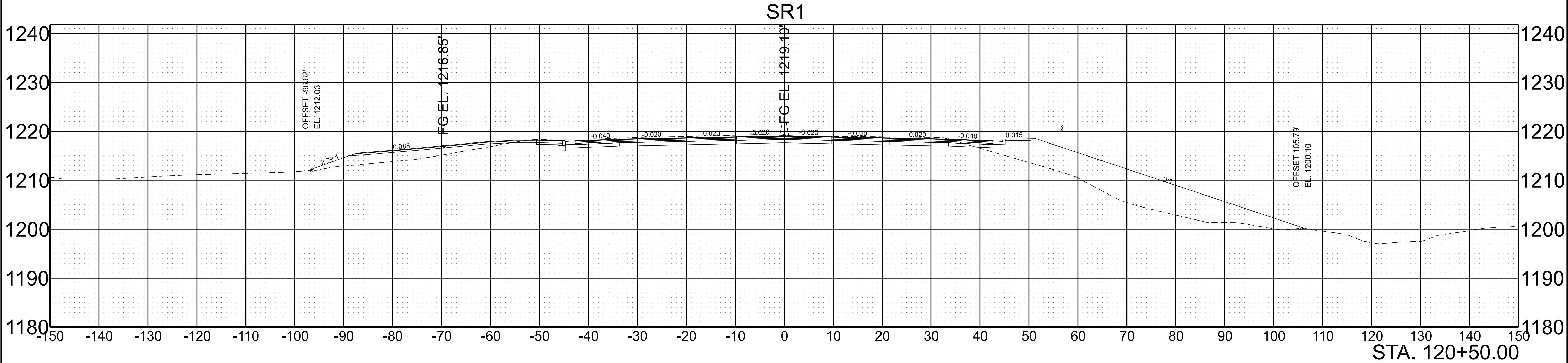
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	26



SCALE: 1"=10' HORIZ.	BEGIN STA. 119+00.00
1"=10' VERT.	END STA. 119+50.00

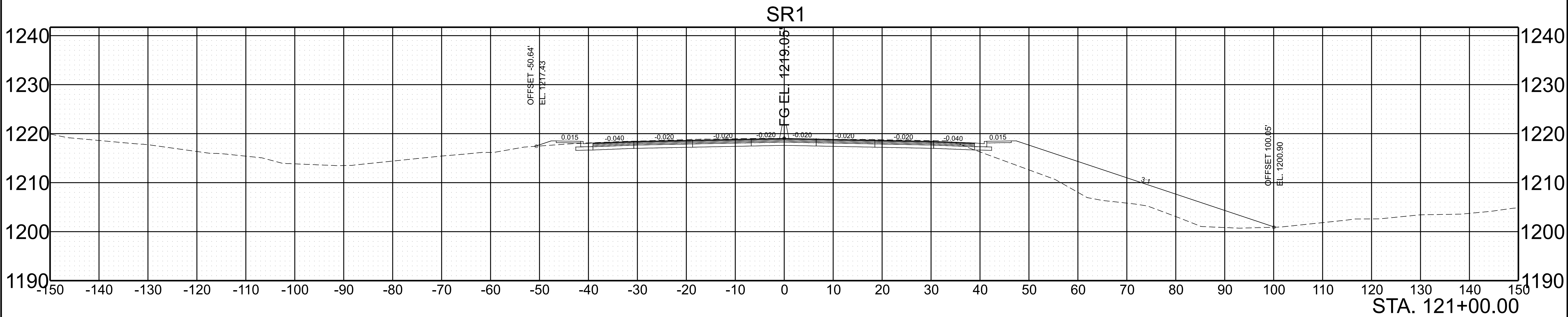
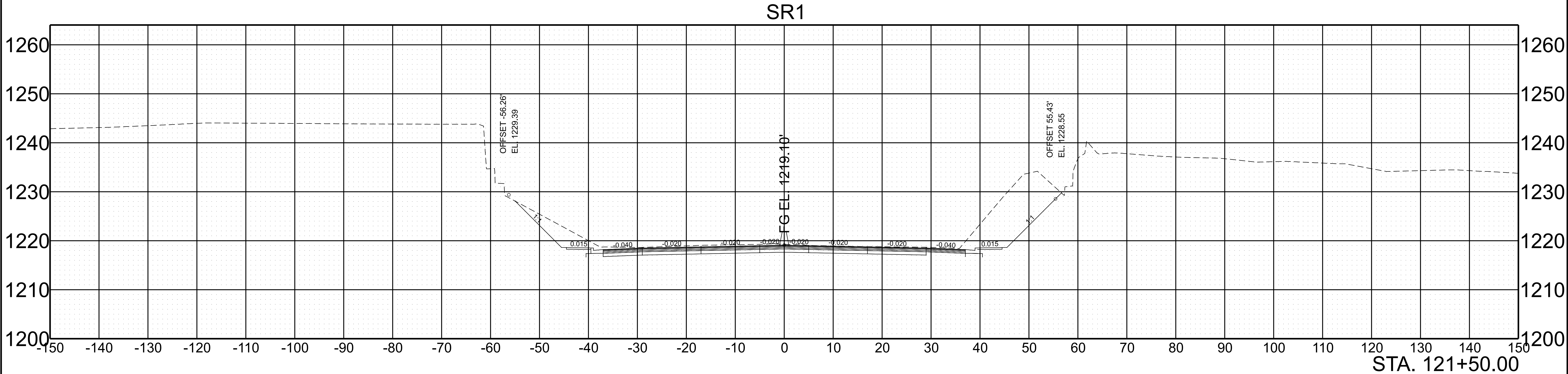
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	27



SCALE: 1"=10' HORIZ.	BEGIN STA. 120+00.00
1"=10' VERT.	END STA. 120+50.00

11/13/2025 3:56:12 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER \24387-00\03 DESIGN\05-CAD\SHEETS\37S001-SHT-XS-SR1.DGN

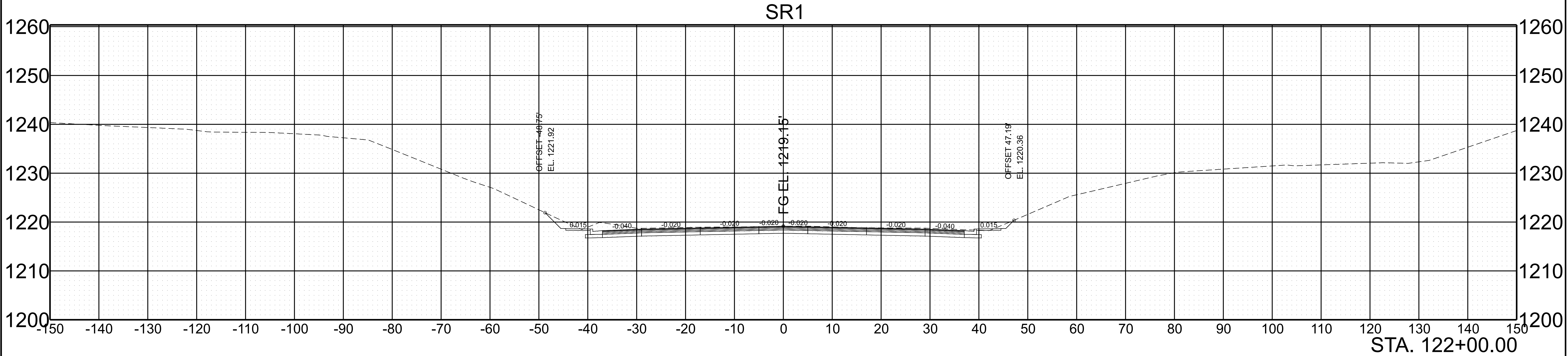
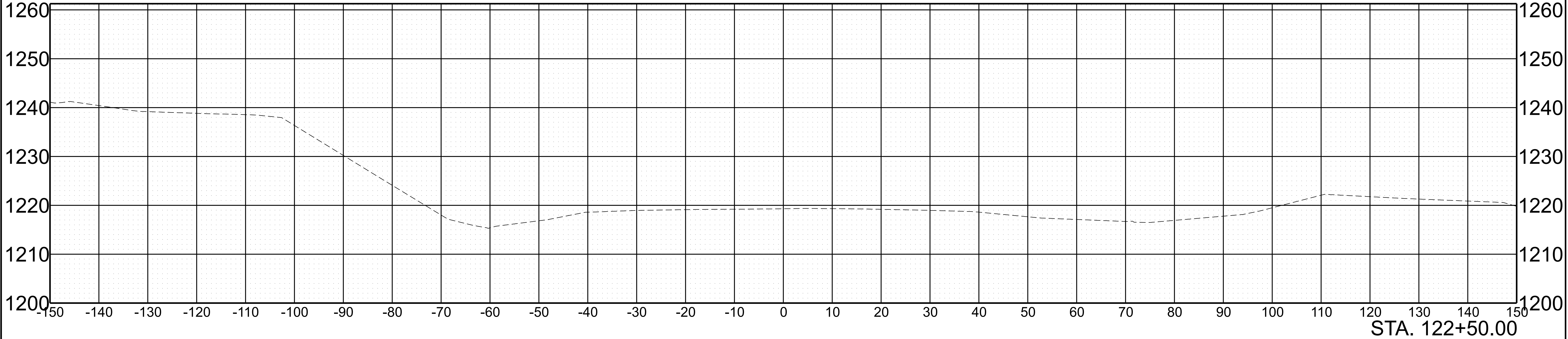
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	28



SCALE: 1"=10' HORIZ.	BEGIN STA. 121+00.00
1"=10' VERT.	END STA. 121+50.00

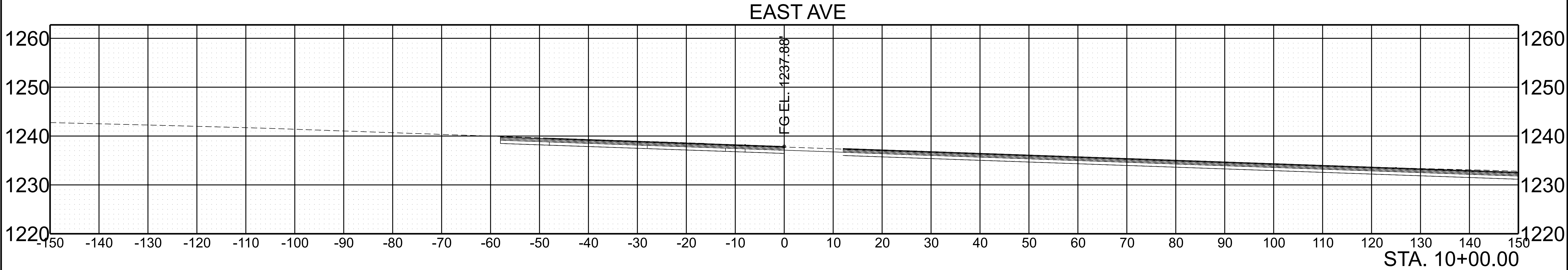
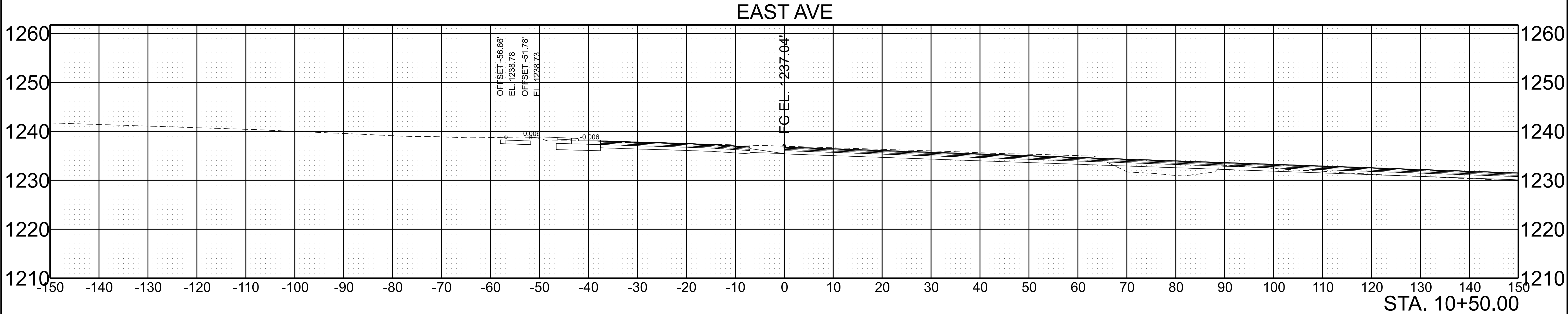
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	29



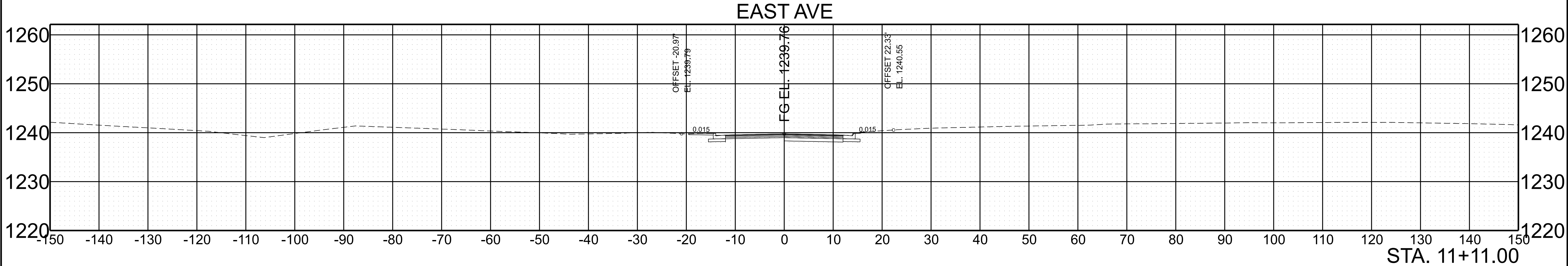
SCALE: 1"=10' HORIZ.	BEGIN STA. 122+00.00
1"=10' VERT.	END STA. 122+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	30



SCALE: 1"=10' HORIZ.	BEGIN STA. 10+00.00
1"=10' VERT.	END STA. 10+50.00

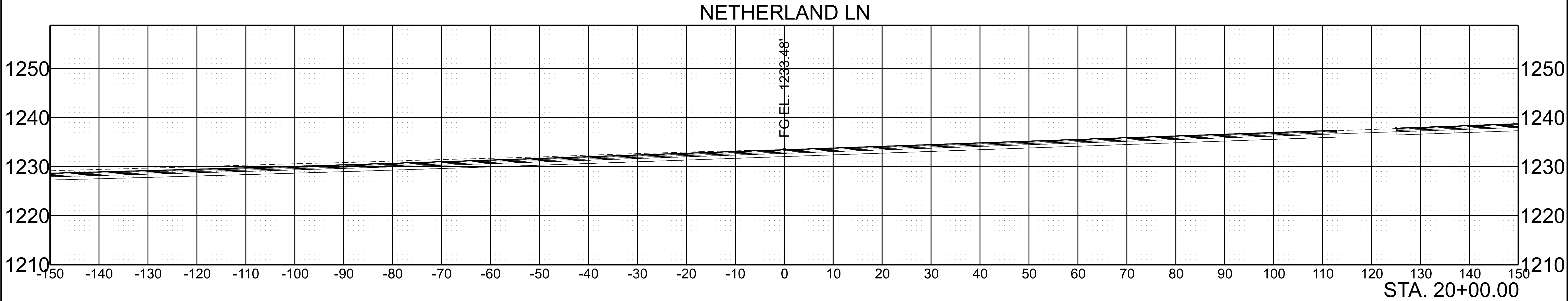
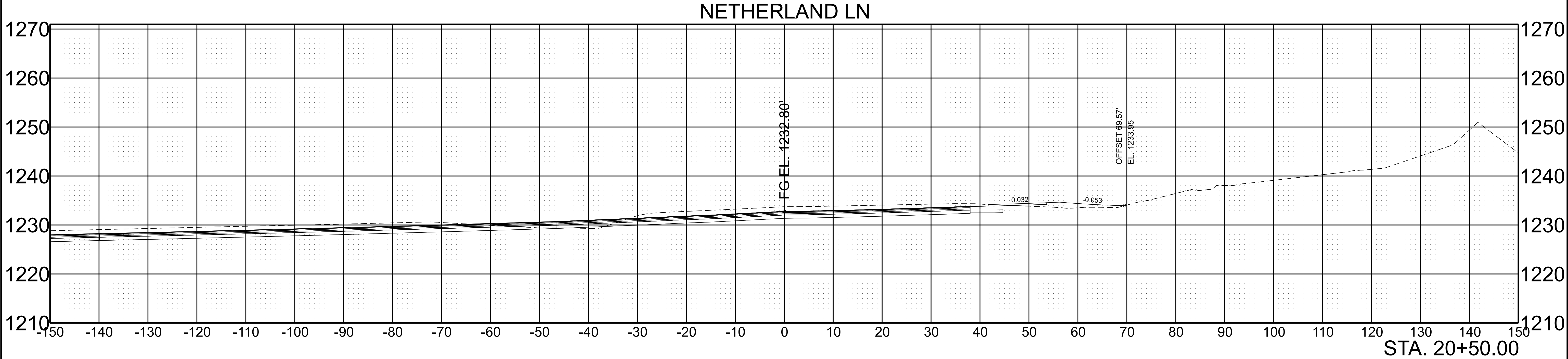
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	31



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

BEGIN STA. 11+00.00
END STA. 11+11.00

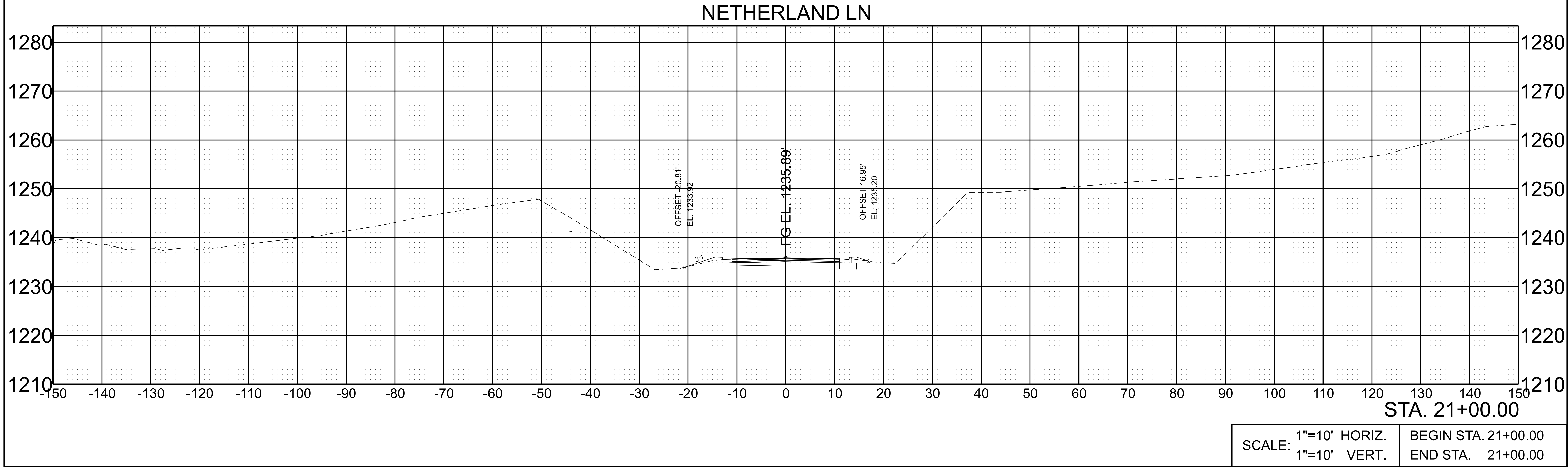
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	32

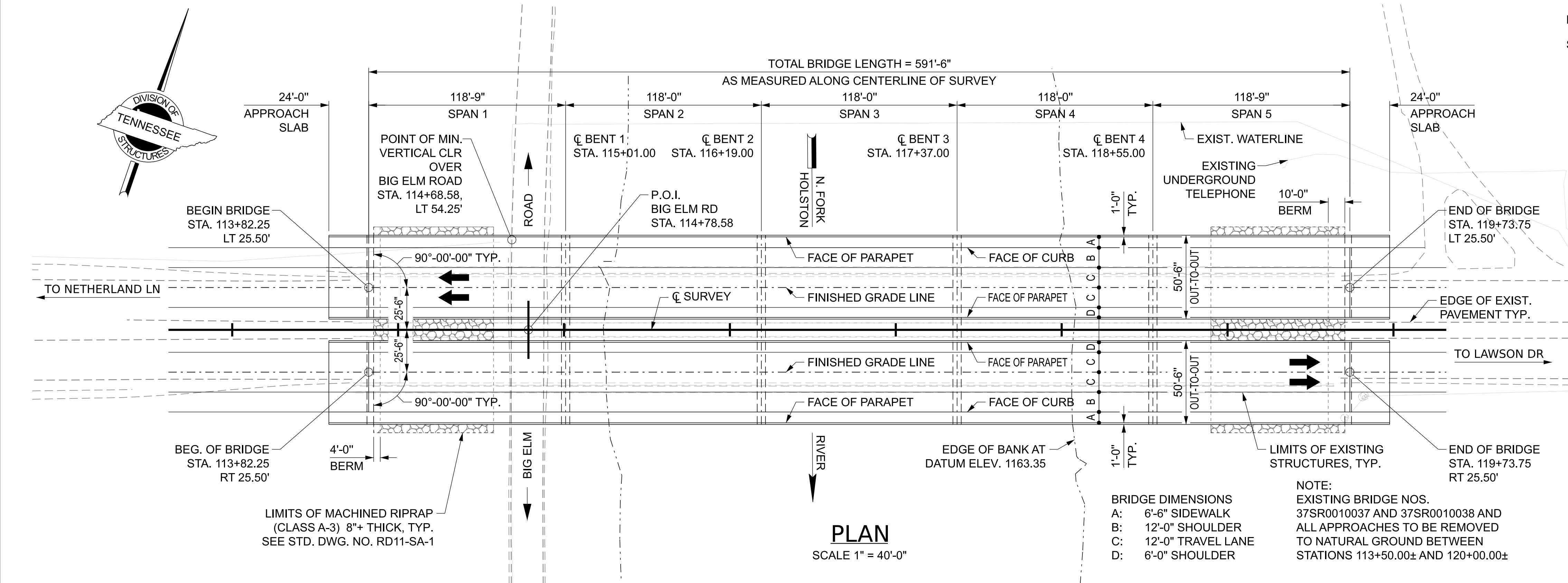
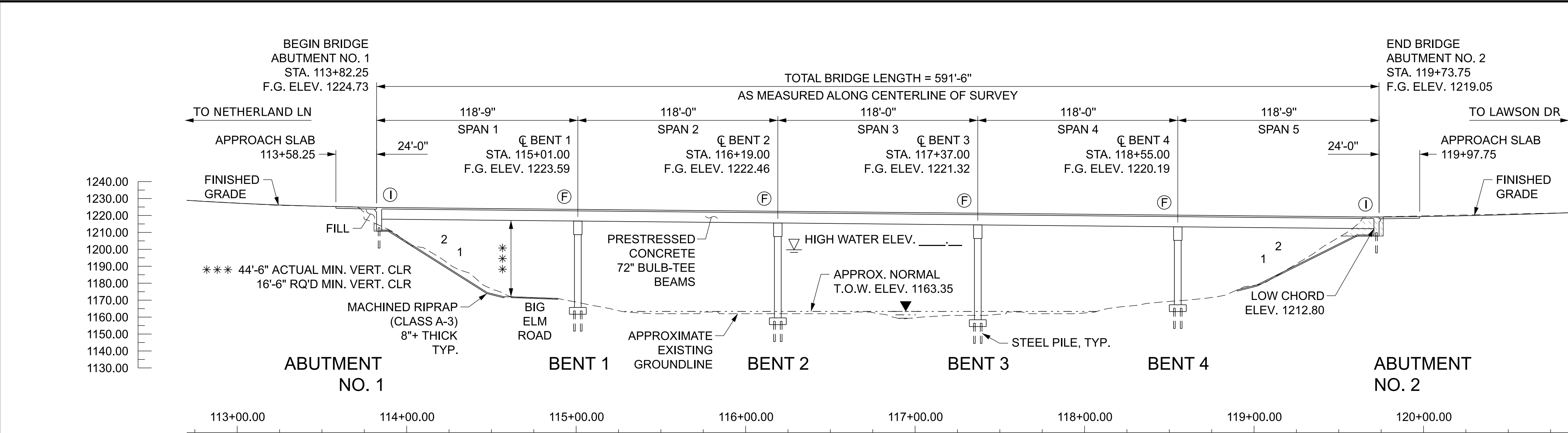


SCALE: 1"=10' HORIZ.	BEGIN STA. 20+00.00
1"=10' VERT.	END STA. 20+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	BR-HIP-NH-1(446)	33

11/13/2025 3:56:24 PM H:\4615B - SULLIVAN-HAWKINS SR1 BRIDGE OVER HOLSTON RIVER \24387-00\03 DESIGN\05-CAD\SHEETS\37S001-SHT-XS-NETHERLAND LN.DGN





HYDRAULIC DATA

DRAINAGE AREA
DESIGN DISCHARGE
DESIGN DISCHARGE (Q100)
OVERTOPPING ELEV.
VELOCITY
BRIDGE BACKWATER (Q100)
HEADWATER ELEV. (Q100)
EFFECTIVE AREA OF OPENING BELOW LOW CHORD

SQ. MI.
CFS
FT/S
FT
S.F.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
LAYOUT OF BRIDGES
SR-1 (W STONE DR)
OVER NORTH FORK HOLSTON RIVER
BR. I.D. NOS. 37SR0010037
AND 37SR0010038
STA. 116+79.50
SULLIVAN-HAWKINS COUNTY
2025

GENERAL NOTES

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

DESIGN SPECIFICATIONS:
10th EDITION (2024) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
2nd EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS

LOADING:
A. HL-93 LIVE LOAD INCREASED BY 10% (MULTIPLIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
B. SEISMIC DESIGN CATEGORY " " WITH As = , SDS = , SD1 = (1000 YEAR RETURN PERIOD)
C. DEAD LOAD SHALL INCLUDE 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE

THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SUPPLEMENTAL SPECIFICATIONS AND PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

SUPERSTRUCTURE: TO CONSIST OF TWO SEPARATE STRUCTURES, EACH 5 SPANS OF SIMPLY SUPPORTED PRE-CAST PRESTRESSED CONCRETE BULB-TEE (BT-72) BEAMS WITH COMPOSITE CONCRETE SLAB.

CONCRETE: SUBSTRUCTURE CONCRETE SHALL BE CLASS "A" (CAST-IN-PLACE), F'c = 3,000 PSI EXCEPT AS OTHERWISE NOTED.
BRIDGE DECK CONCRETE SHALL BE CLASS "D" (CAST-IN-PLACE), F'c = 4,000 PSI EXCEPT AS OTHERWISE NOTED.
ALL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

REINFORCING STEEL: SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.

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

BRIDGE PARAPETS: SHALL BE TDOT STD-11-1.

TEXTURE COATING: TO BE GRAY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE WHITE (37886).

EXCAVATION: TO BE BASED ON EXISTING GROUND AT ABUTMENTS.

DRAINAGE: FLUMES AT BRIDGE ENDS ARE NOT REQUIRED.
BRIDGE DECK DRAINS ARE NOT REQUIRED.

EXISTING BRIDGE
STRUCTURES: BR. FED. ID NO. 37SR0010037 (EASTBOUND) - 592'-0" LENGTH, 39'-0" OUT-TO-OUT WIDTH, 12 SPAN CONTINUOUS CONCRETE BEAM BRIDGE WITH CONCRETE SUBSTRUCTURES.
BR. FED. ID NO. 37SR0010038 (WESTBOUND) - 592'-0" LENGTH, 39'-0" OUT-TO-OUT WIDTH, 12 SPAN CONTINUOUS CONCRETE BEAM BRIDGE WITH CONCRETE SUBSTRUCTURES.

CONST. NO.:

PROJECT NO.		YEAR	SHEET NO.
BR-HIP-NH-1(446)		2025	B-2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
	- -		
	- -		
	- -		

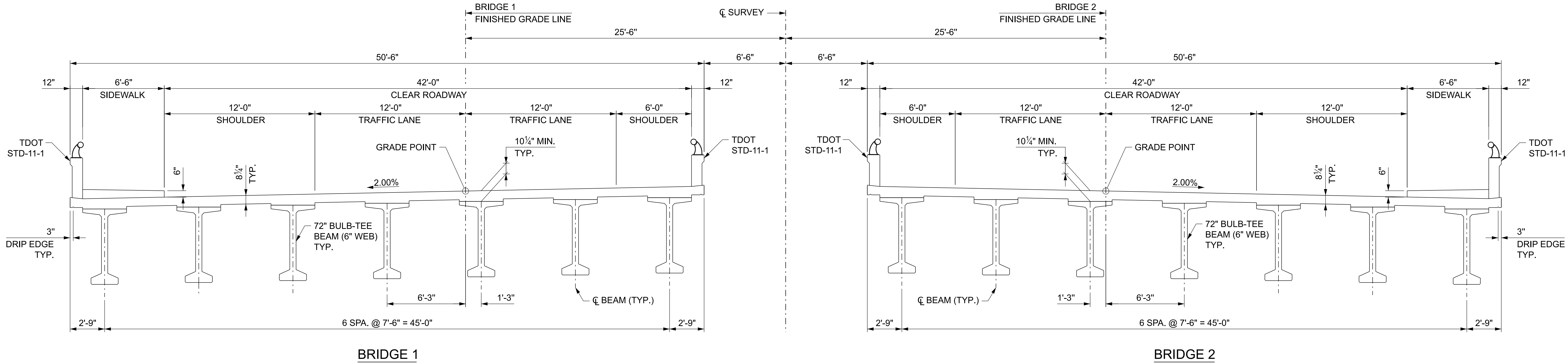
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
SR-1 (W STONE DR)
OVER NORTH FORK HOLSTON RIVER
BR. I.D. NOS. 37SR0010037
AND 37SR0010038
STA. 116+79.50
SULLIVAN-HAWKINS COUNTY
2025

B-2

PIN NO.: 124387.00
DESIGN BY: KES DATE: 11/14/2025
DRAWN BY: KES DATE: 11/14/2025
SUPERVISED BY: CMT DATE: 11/14/2025
CHECKED BY: TJT DATE: 11/14/2025

CONST. NO.:			
PROJECT NO.		YEAR	SHEET NO.
BR-HIP-NH-1(446)		2025	B-3
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-		
-	-		
-	-		
-	-		
-	-		



TYPICAL CROSS SECTION

SCALE: 1/4" = 1'-0"

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
SR-1 (W STONE DR)
OVER NORTH FORK HOLSTON RIVER
BR. I.D. NOS. 37SR0010037
AND 37SR0010038
STA. 116+79.50
SULLIVAN-HAWKINS COUNTY
2025

PIN NO.: 124387.00
DESIGN BY: KES DATE: 11/14/2025
DRAWN BY: KES DATE: 11/14/2025
SUPERVISED BY: CMT DATE: 11/14/2025
CHECKED BY: TJT DATE: 11/14/2025