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SHEETS NOT USED : 7-14

END PROJECT NO. R4SVAR-S1-058 R.O.W.

STA. 118+75.00 S.R.196

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY

STA. 118+50.00 S.R.196

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY

STA. 110+00.00 S.R.196

BEGIN PROJECT NO. R4SVAR-S1-058 R.O.W.

STA. 109+75.00 S.R.196

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: DEREK LINK

DESIGN FIRM : GRESHAM SMITH

DESIGNER : AUSTIN BIGGS, P.E. CHECKED BY BEN COLES, P.E.

P.E. NO. R4SVAR-S1-058

PIN NO. 137109.05

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

FAYETTE COUNTY

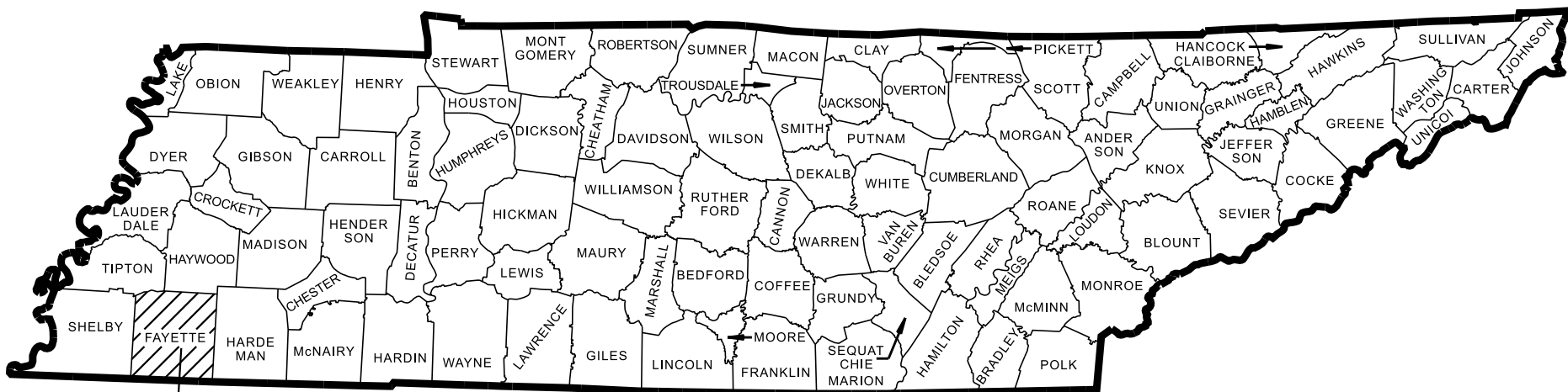
STATE ROUTE 196
BRIDGE OVER BRANCH OF
RUSSELL CREEK, L.M.14.12

LINE AND GRADE PLANS
BRIDGE REPLACEMENT

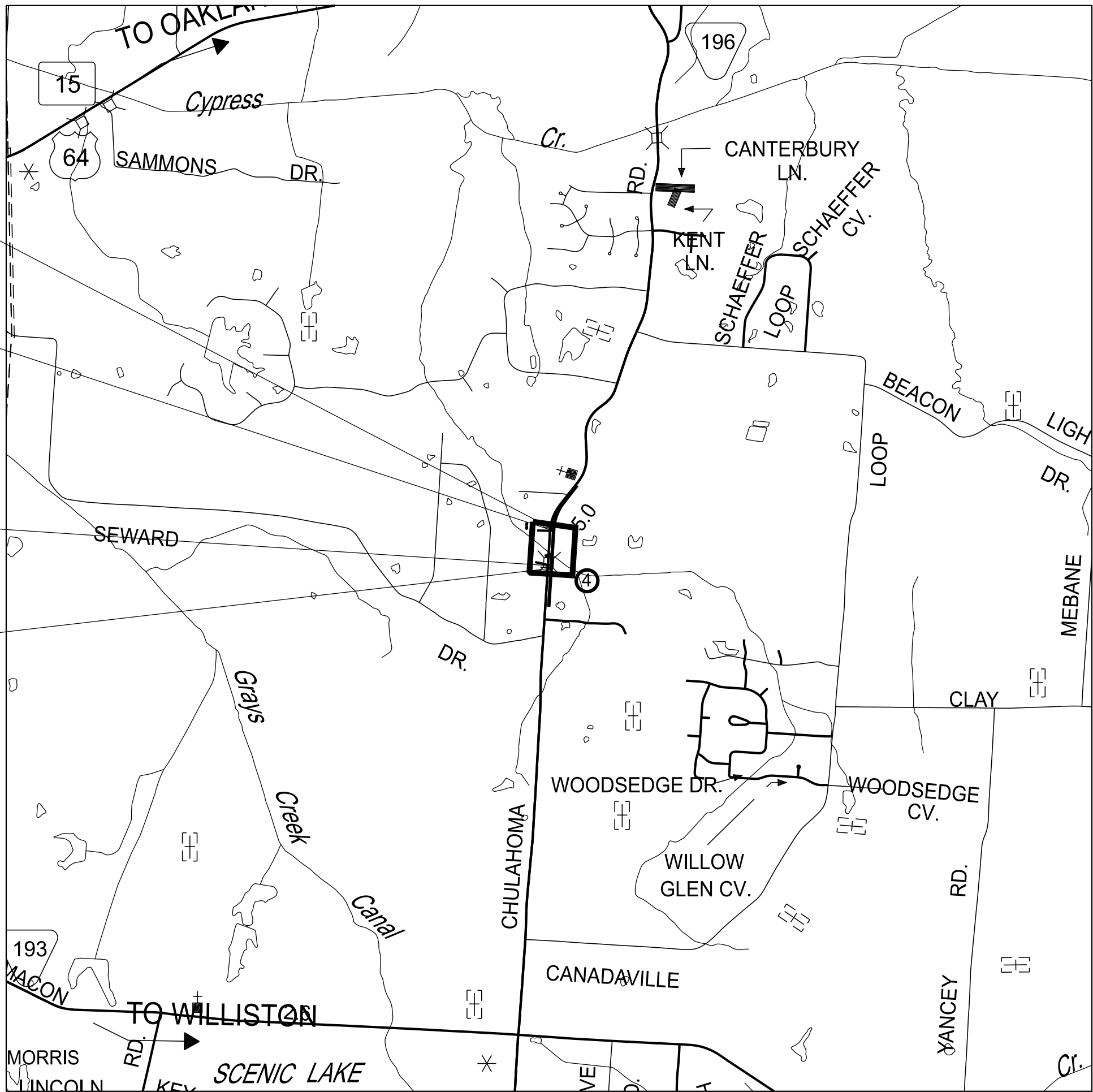
STATE HIGHWAY NO. 196

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

TENN.	YEAR 2026	SHEET NO. 1
FED. AID PROJ. NO.		
STATE PROJ. NO.		R4SVAR-S1-058



PROJECT LOCATION
BRIDGE ID. # 24S81090007



SCALE: 1"= 1/2 MILE

R.O.W. LENGTH 0.170 MILES
ROADWAY LENGTH 0.137 MILES
BRIDGE LENGTH 0.024 MILES
PROJECT LENGTH 0.161 MILES ▲

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

NO EXCLUSIONS

ROAD TO BE CLOSED
DURING CONSTRUCTION

DESIGN EXCEPTION
APPROVED - -
1) DESIGN EXCEPTION FOR 4 FOOT
PROPOSED SHOULDER.

LINE
AND
GRADE

SEALED BY

APPROVED:

SHANE HESTER, CHIEF ENGINEER

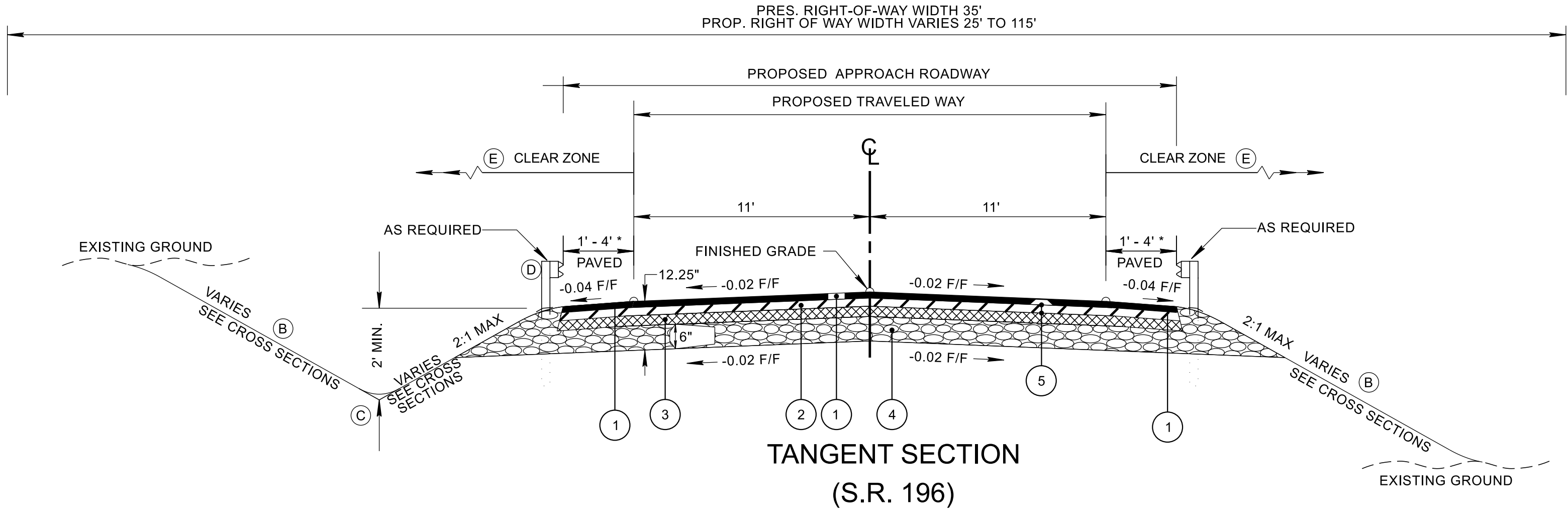
DATE:

APPROVED:

WILL REID, COMMISSIONER

SURVEY 02-2026	TRAFFIC DATA
TN STATE LIDAR UTILIZED	ADT (2029) 2270
WITH SUPPLEMENTAL	ADT (2049) 2810
SURVEY FOR EXISTING	DHV (2049) 365
STREAM AND BRIDGE ONLY	D 65 - 35
	T (ADT) 3 %
	T (DHV) 2 %
	V 55 MPH

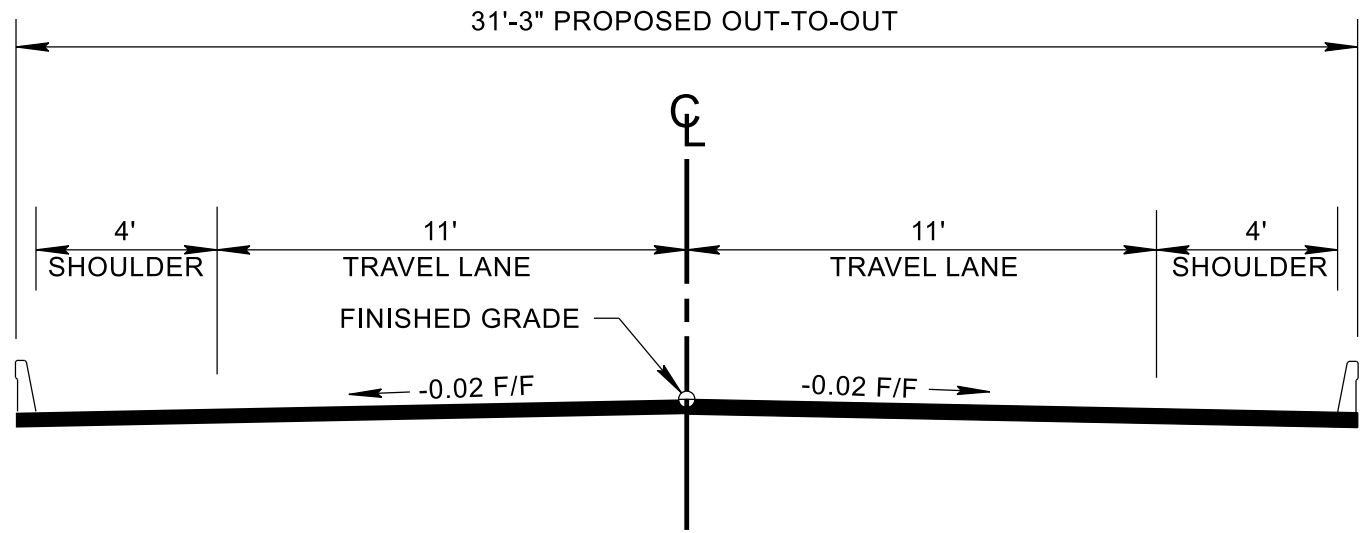
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	2B



- (A) THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.
- (B) SEE STANDARD DRAWINGS RD11-S-11 AND RD11-S-11B FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, SPECIAL ROCK TREATMENT AND SUB GRADE ROUNDING IF APPLICABLE.
- (C) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.
- (D) SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.
- (E) SEE STANDARD DRAWING S-CZ-1 FOR CLEAR ZONE CRITERIA. SEE THE "ROADSIDE DESIGN GUIDE", AASHTO, 2011, FOR FURTHER INFORMATION REGARDING CLEAR ZONES.

* PAVED SHLDR. WIDTH TRANS. FROM 1' TO 4' STA. 110+00.00 - STA. 110+50.00

* PAVED SHLDR. WIDTH TRANS. FROM 4' TO 1' STA. 118+00.00 - STA. 118+50.00



BRIDGE SECTION
(S.R. 196)

FROM STA. 113+32.78 TO STA. 114+60.78
SEE SHEETS B1 & B2 FOR FURTHER DETAILS

PROPOSED PAVEMENT SCHEDULE	
① ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING "D"	④ MINERAL AGGREGATE 6.00" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"
② BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"	⑤ TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y. SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD
③ BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"	

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

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 ROADWAY DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3)

EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4)

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5)

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6)

ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7)

TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.
- (8)

NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (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.
- (10)

ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.
- (11)

ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.
- (12)

EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

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/FIBER/TELEPHONE:

AT&T
315 E. College Street
Jackson, TN 38301
CONTACT: Daniel R. Potts
OFFICE PHONE: 901 488 2359
CELL PHONE: NA
Email: dp7607@att.com

ELECTRIC:

Chickasaw Electric Cooperative
17970 Hwy. 64 East
Somerville, TN 38068
CONTACT: Loyd Muncy
OFFICE PHONE: 901 486 2536
CELL PHONE: NA
Email: lmuncy@chickasaw.coop

WATER/SEWER:

City of Piperton
3300 Hwy 196 South/P.O. Box 328
Piperton, TN 38017
CONTACT: Richard Mills
OFFICE PHONE: 901 221 7806
CELL PHONE:
Email: rmills@pipertontn.gov

CABLE:

COMCAST
Address NA
City, State Zip NA
CONTACT: Jeffrey Oliver
OFFICE PHONE: 772 631 5371
CELL PHONE: NA
Email: jeffrey_oliver@comcast.com

GAS:

Hardeman Fayette Utility District
15175 Hwy. 57 East/P.O. Box 7
Moscow, TN 38057
CONTACT: Clay Joyner
OFFICE PHONE: 901 877 6236
CELL PHONE: NA
Email: cjoyner@hfuutilitydistrict.com

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	3

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	3A

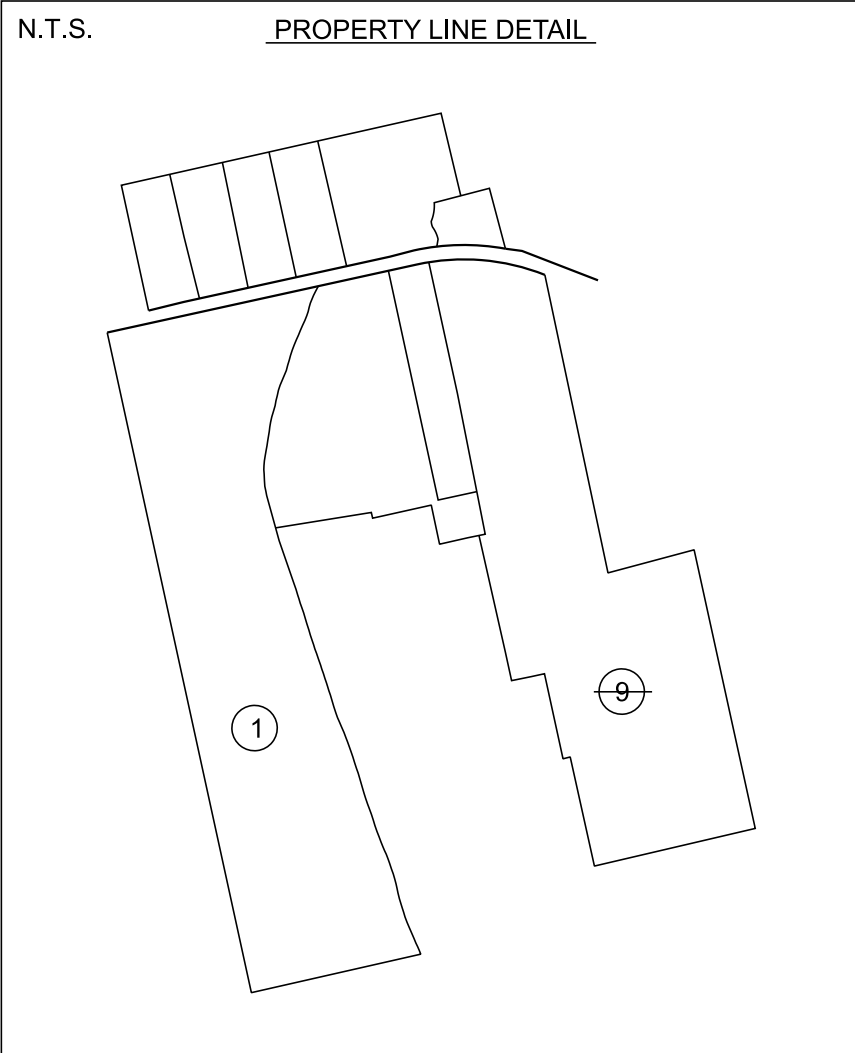
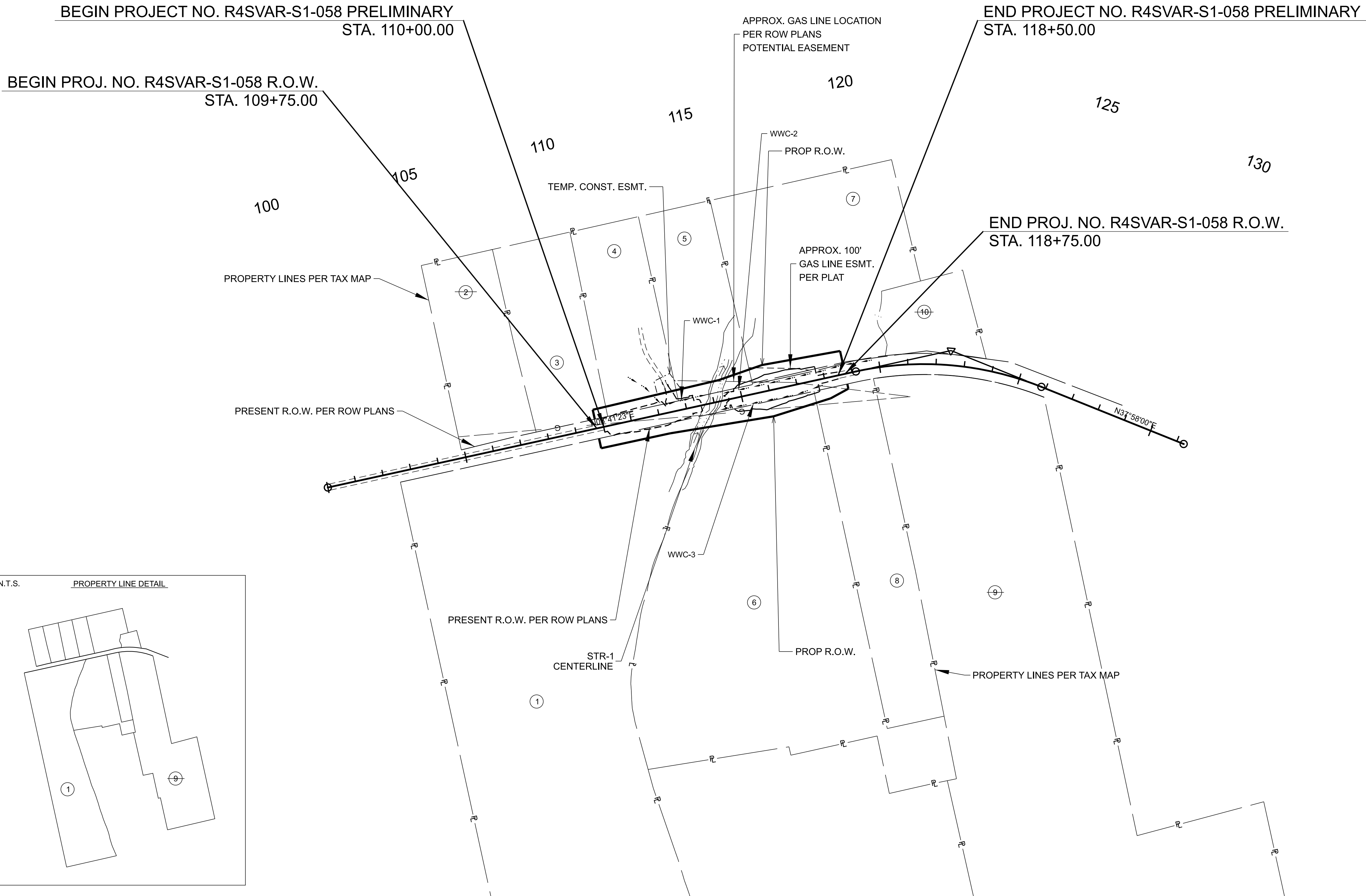
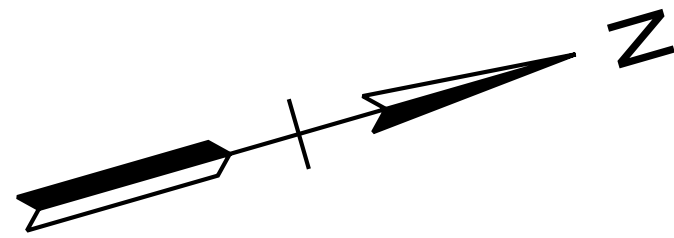
R.O.W. ACQUISITION TABLE																		
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)				
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	PERM SLOPE	CONST	AIR RIGHTS	PERM HIGHWAY
				BOOK	PAGE													
1	PAUL HALFORD AND CAROLYN HALFORD	105	020.00	060	02543		62.600	62.600		0.330	0.330		62.270					
2	DONNA BOYD	105	041.00	160	05249	4.030		4.030				4.030						
3	CLAYTON M. RAMSEY AND BRANDI L. RAMSEY	105	042.00	250	02920	4.160		4.160	1628 S.F.		1628 S.F.	4.123						
4	MELISSA S. TUCKER AND DAVID J. TUCKER	105	043.00	240	02935	3.870		3.870	0.217		0.217	3.653				3817 S.F.		
5	MELISSA S. TUCKER AND DAVID J. TUCKER	105	044.00	240	02935	4.060		4.060	0.267		0.267	3.793				352 S.F.		
6	RICHARD A. WILLIS AND LORI M. WILLIS	105	020.04	250	06013		20.920	20.920		0.443	0.443		20.477					
7	HEATHER CROSNO AND SCOTTY CROSNO	105	052.01	160	05126	9.240		9.240	0.413		0.413	8.827						
8	JONATHAN DAVID RIDDLE AND CAROLINE CARPENTER	105	021.00	240	06079		5.990	5.990		3913 S.F.	3913 S.F.		5.900					
9	CORAZON N. PADUA	105	003.00	432	596		54.730	54.730					54.730					
10	MICHAEL MOAK AND D. LYNNE MOAK	105	052.00	100	01831	1.980		1.980				1.980						
ACQUISITION TOTALS (ACRES)									1.798							4168 S.F.		

DISTURBED AREA		
IN BETWEEN SLOPE LINES		1.393 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)		0.680 (AC)
TOTAL DISTURBED AREA		2.074 (AC)
TOTAL PROJECT AREA		3.084 (AC)

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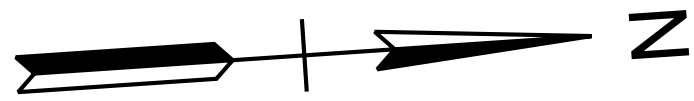
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY ACQUISITION TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	3B



SEALED BY
TN STATE LIDAR UTILIZED WITH SUPPLEMENTAL SURVEY FOR EXISTING STREAM AND BRIDGE ONLY.
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
PROPERTY MAP
STA. 92+00.00 TO STA. 140+00.00 SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4



BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 109+75.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 118+75.00

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 110+00.00

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 118+50.00

③
CLAYTON M. RAMSEY
AND BRANDI L. RAMSEY

④
MELISSA S. TUCKER
AND DAVID J. TUCKER

⑤
MELISSA S. TUCKER
AND DAVID J. TUCKER

⑦
HEATHER CROSNO
AND SCOTTY CROSNO

PROPERTY LINES PER TAX MAP

APPROX. GAS LINE LOCATION
PER ROW PLANS
POTENTIAL EASEMENT

PRESENT R.O.W. PER ROW PLANS

TEMP.
CONST.
ESMT.

PROP. R.O.W.

FILL

N03°11'23"E

PROP. R.O.W.

PRESENT R.O.W. PER ROW PLANS

①
PAUL HALFORD AND
CAROLYN HALFORD

STR-1
CENTERLINE

⑥
RICHARD A. WILLIS
AND LORI M. WILLIS

APPROX. GAS LINE LOCATION
PER ROW PLANS
POTENTIAL EASEMENT

PROPERTY LINES PER TAX MAP

4-SPAN CONC.
BRIDGE ID
24S81090007
(TO BE REMOVED)

⑧
JONATHAN DAVID RIDDLE
AND CAROLINE CARPENTER

APPROX. 100' GAS LINE ESMT. PER PLAT

PROP. R.O.W.

PROP. R.O.W.

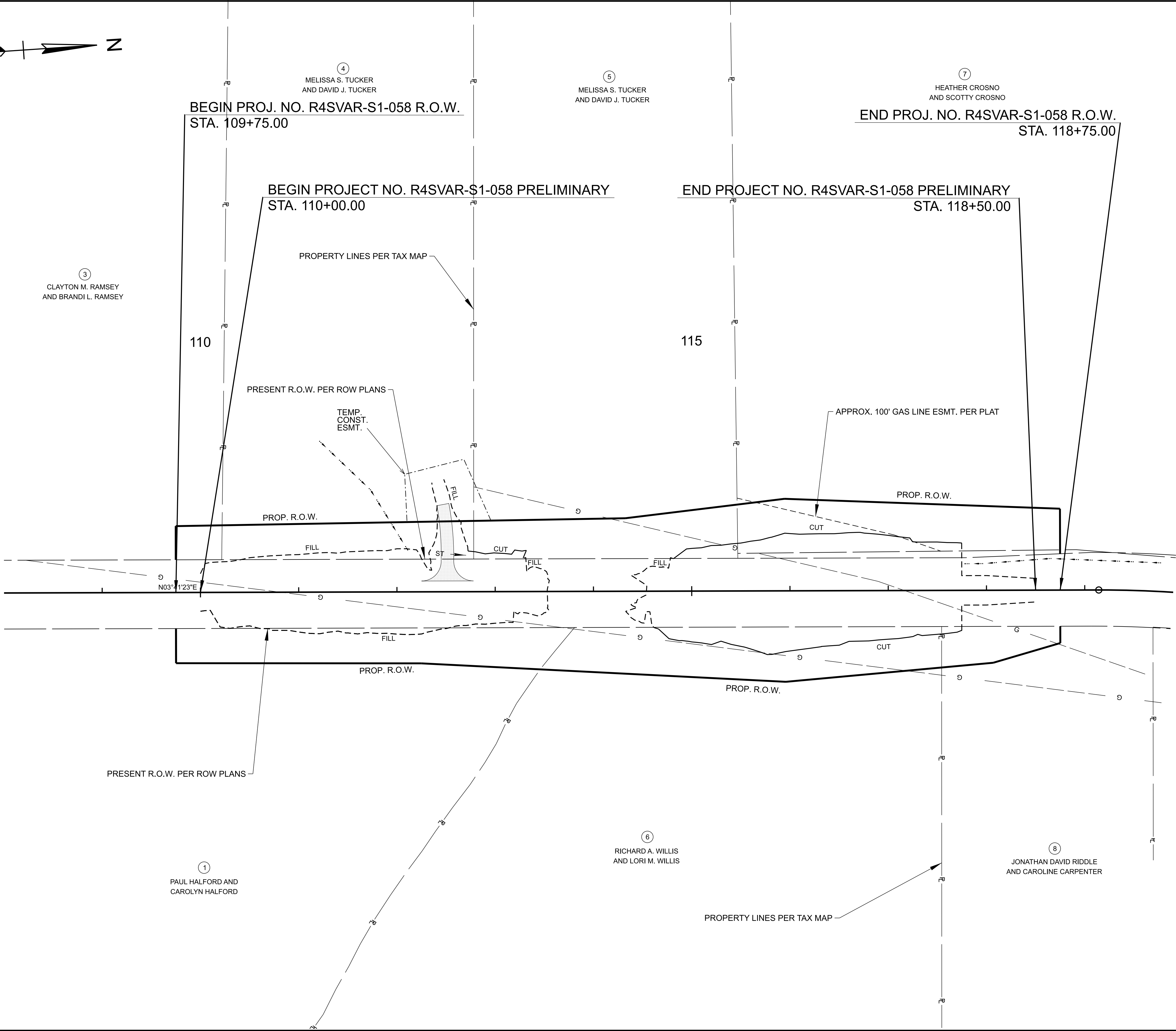
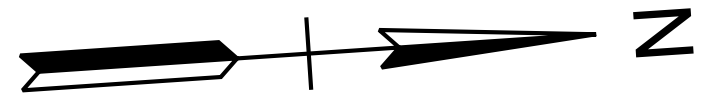
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TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 108+00.00 TO STA. 120+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4A

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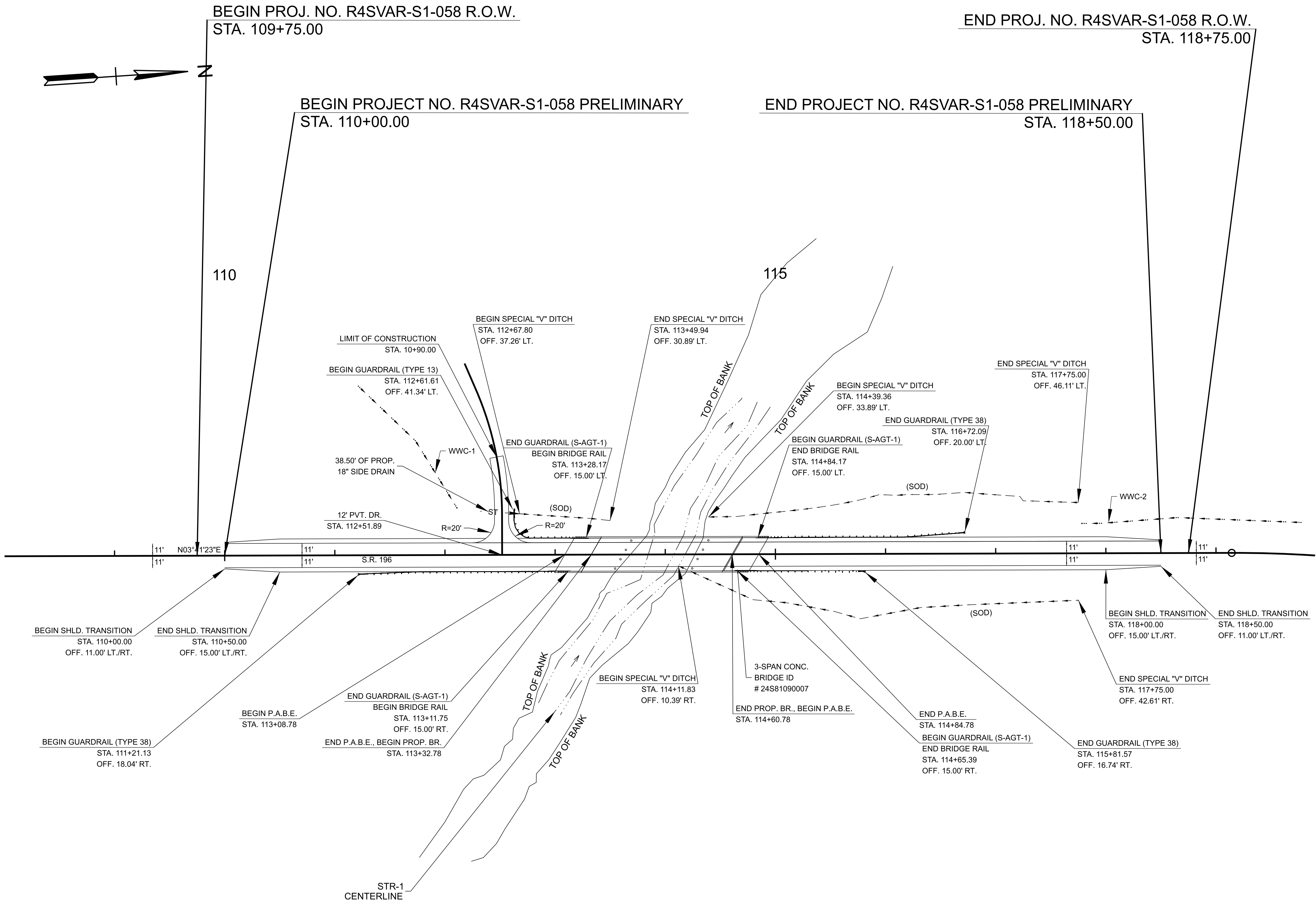
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
DETAILS

STA. 108+00.00 TO STA. 120+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4B



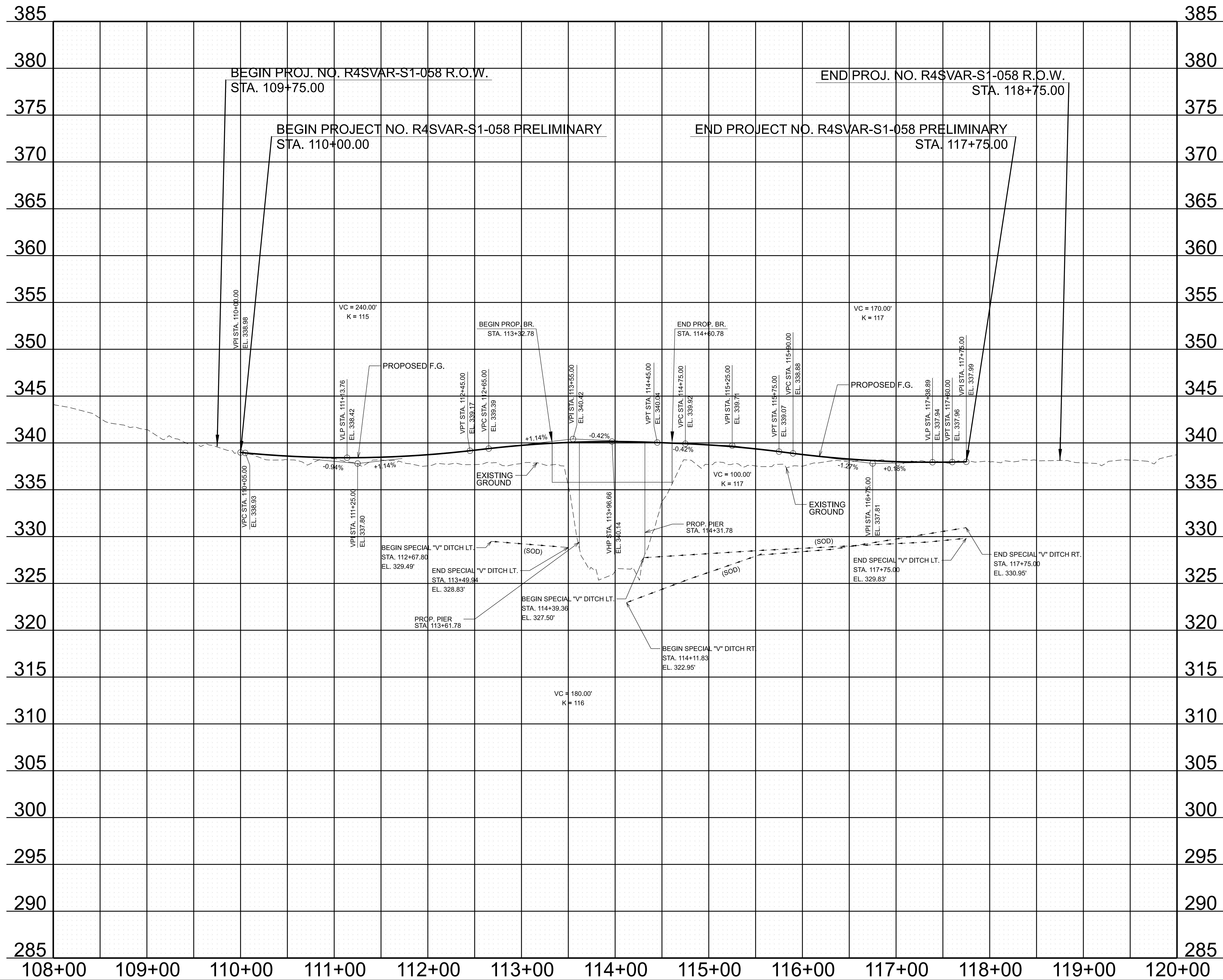
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TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
LAYOUT**

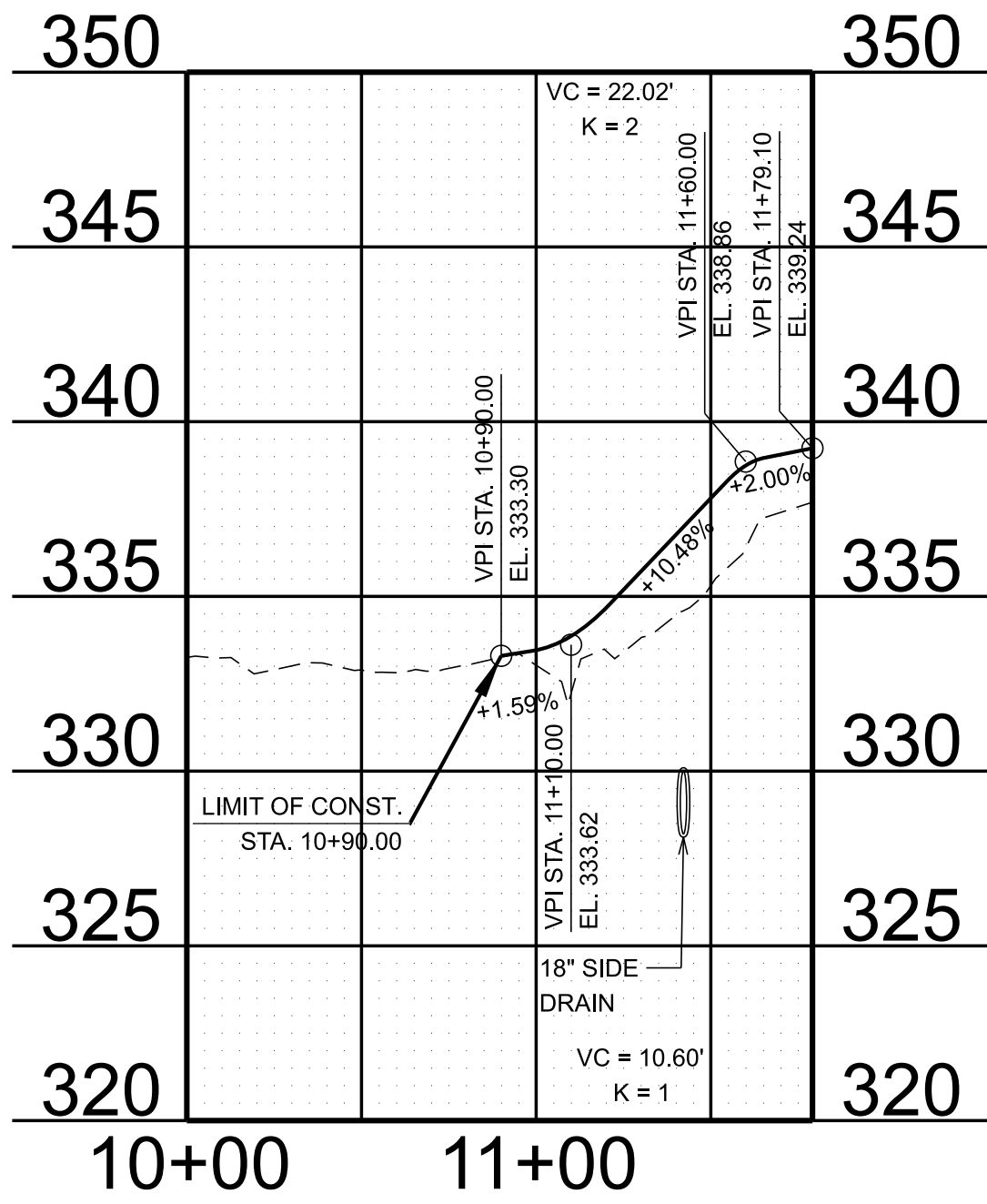
STA. 108+00.00 TO STA. 120+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4C

SEALED BY	

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION	
PROPOSED PROFILE	
STA. 108+00.00 TO STA. 120+00.00	
1" = 50' HORIZ. 1" = 5' VERT.	



S.R. 196
12' PVT. DR.
LT. 112+51.89 (ASPH)
TRACT NO. 4

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	5

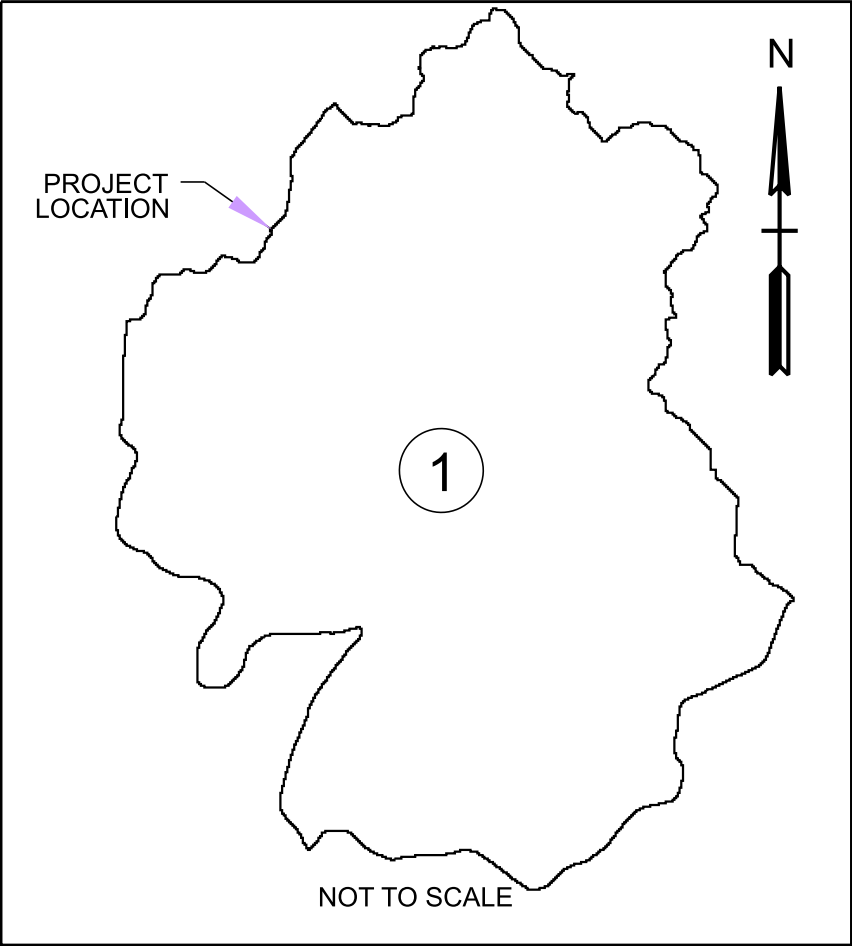
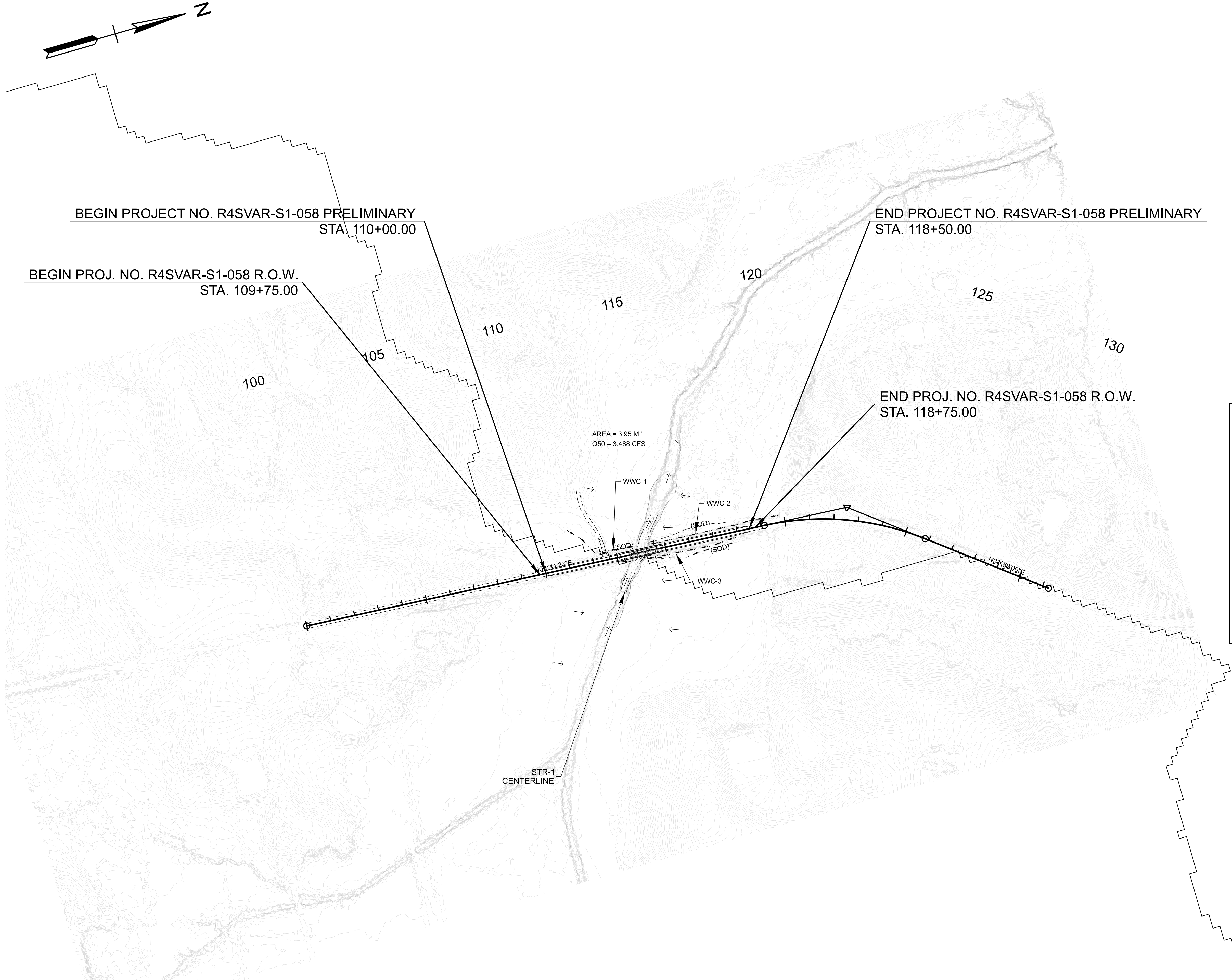
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE,
BUSINESS, AND FIELD
ENTRANCE PROFILE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	6



SEALED BY

TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

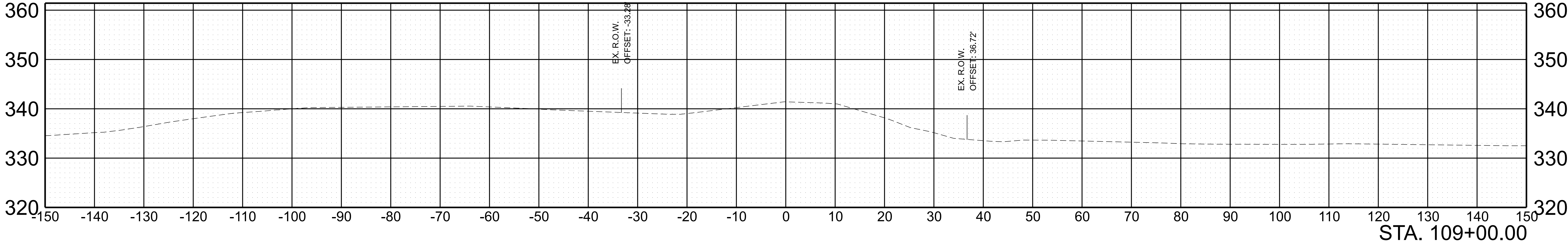
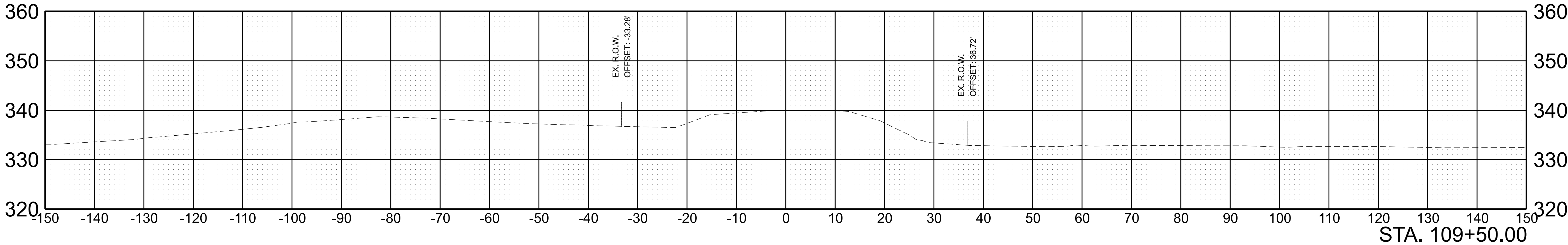
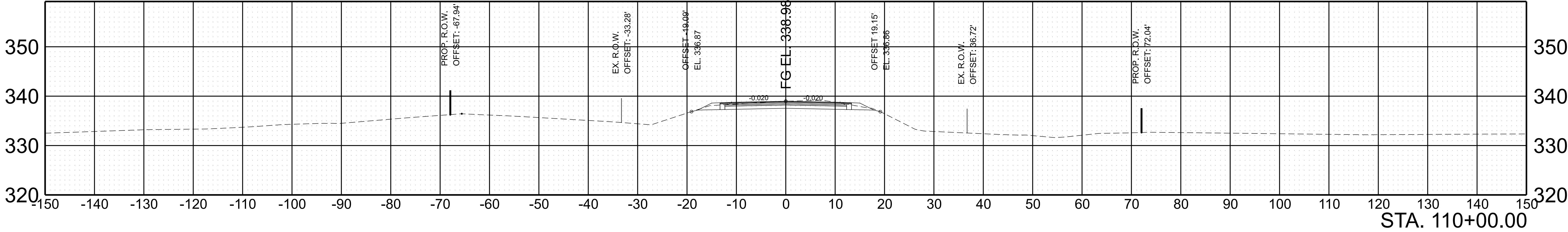
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE
MAP**

STA. 92+00.00 TO STA. 140+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	15

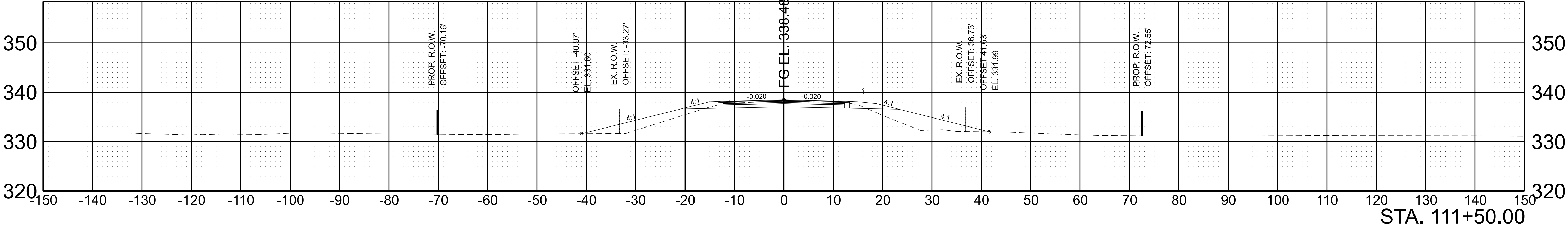
S.R. 196 Bridge 20



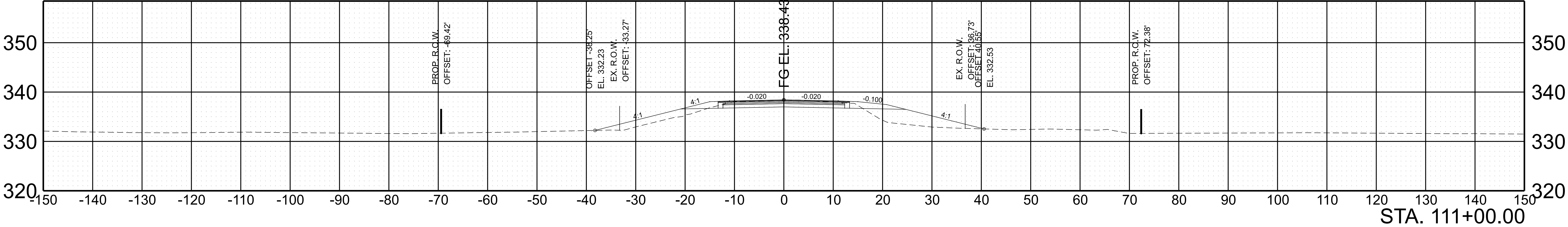
SCALE: 1"=10' HORIZ.	BEGIN STA. 109+00.00
1"=10' VERT.	END STA. 110+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	16

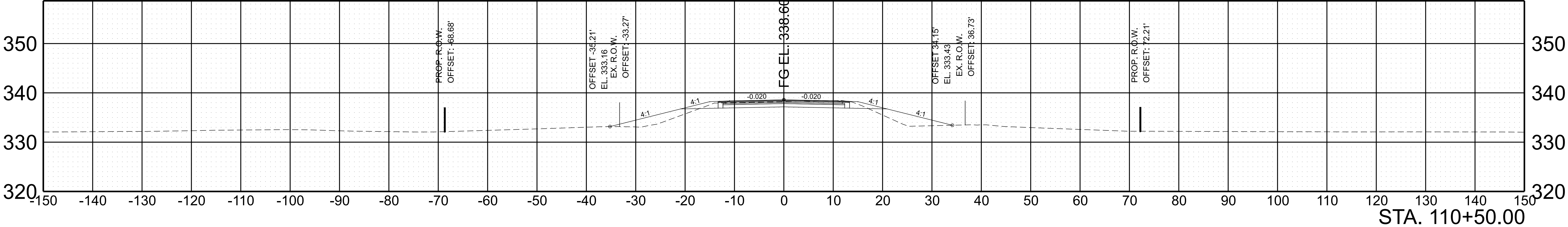
S.R. 196 Bridge 20



S.R. 196 Bridge 20



S.R. 196 Bridge 20

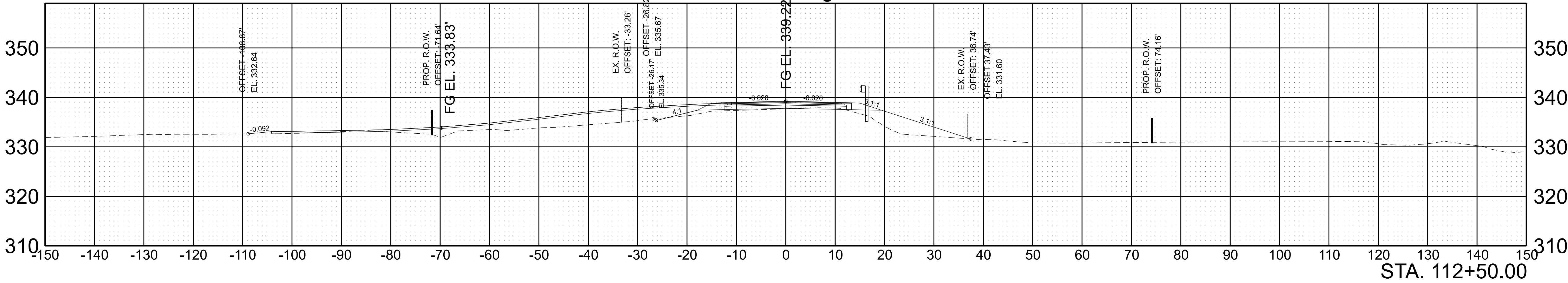


SCALE: 1"=10' HORIZ.
1"=10' VERT.

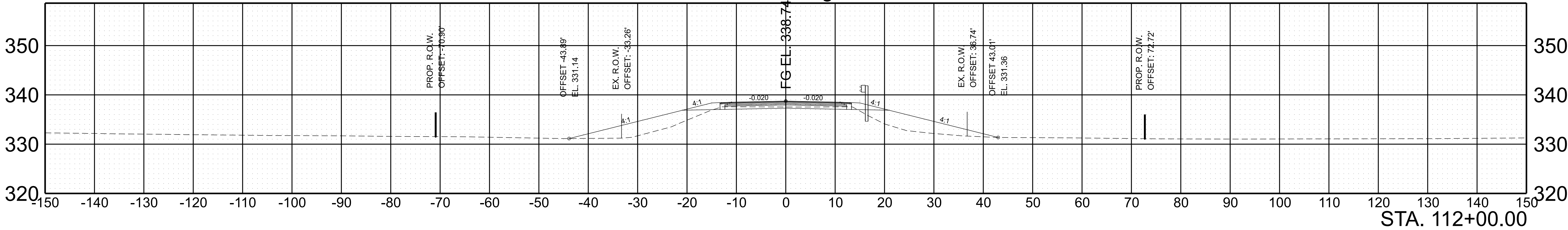
BEGIN STA. 110+50.00
END STA. 111+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	17

S.R. 196 Bridge 20



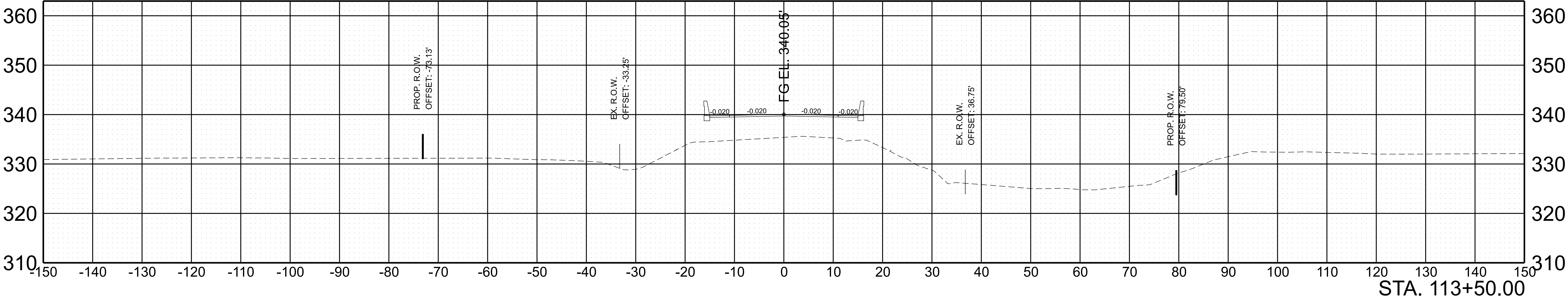
S.R. 196 Bridge 20



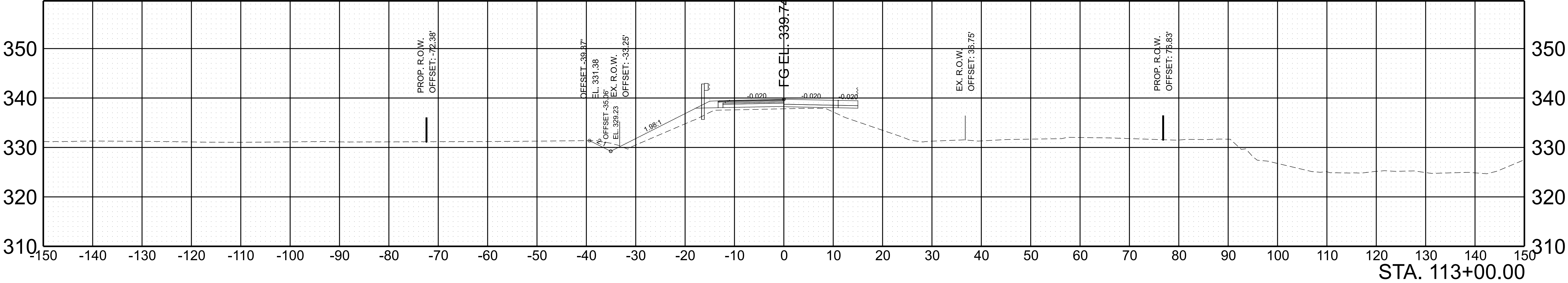
SCALE: 1"=10' HORIZ.	BEGIN STA. 112+00.00
1"=10' VERT.	END STA. 112+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	18

S.R. 196 Bridge 20



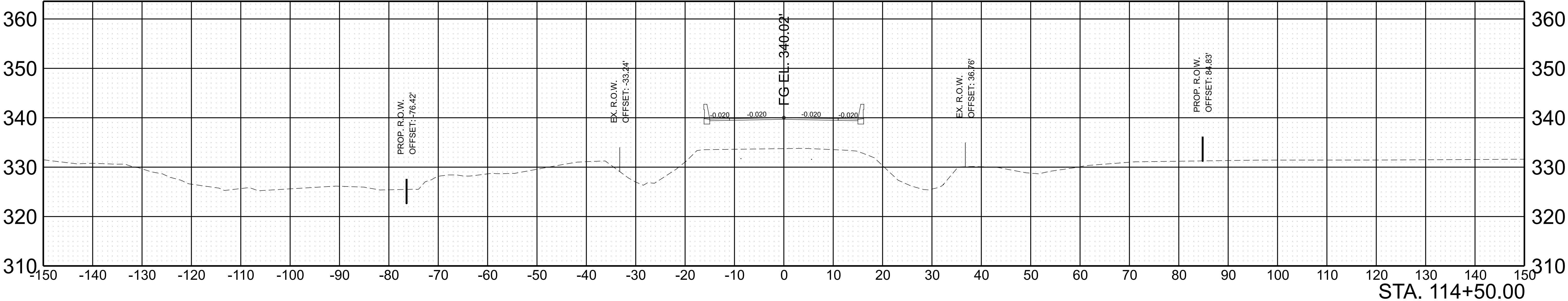
S.R. 196 Bridge 20



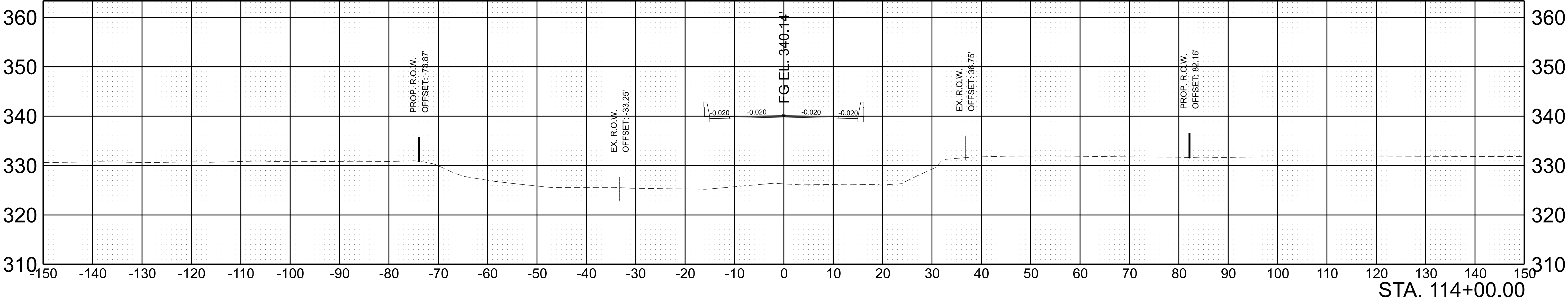
SCALE:	1"=10' HORIZ.	BEGIN STA. 113+00.00
	1"=10' VERT.	END STA. 113+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	19

S.R. 196 Bridge 20



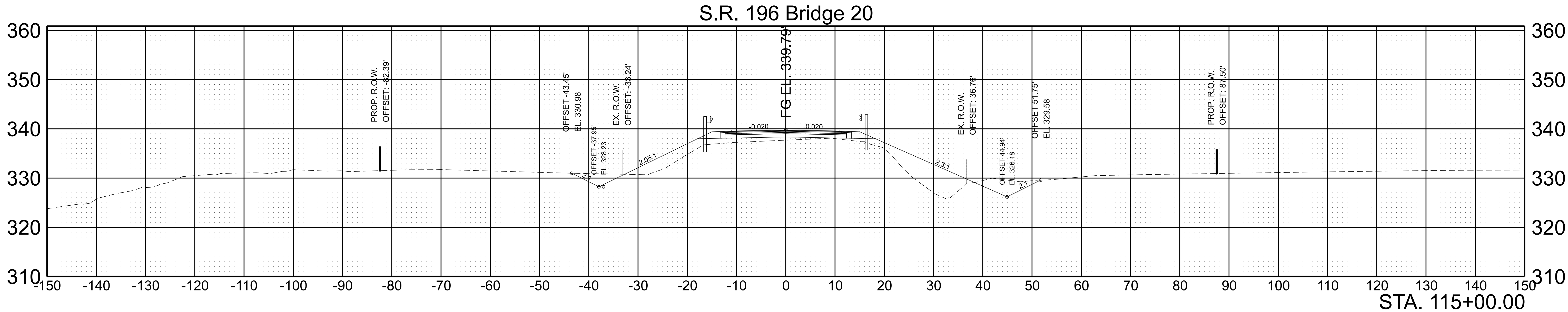
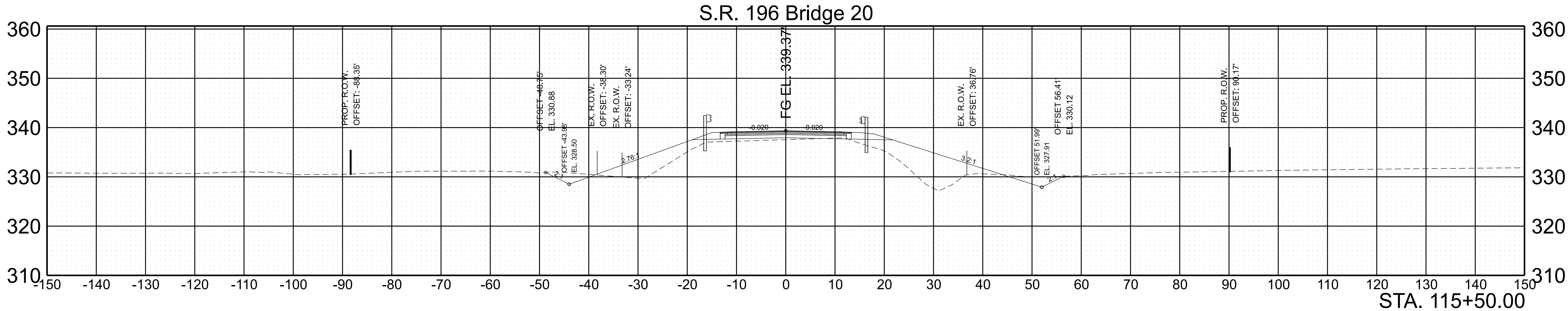
S.R. 196 Bridge 20



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

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

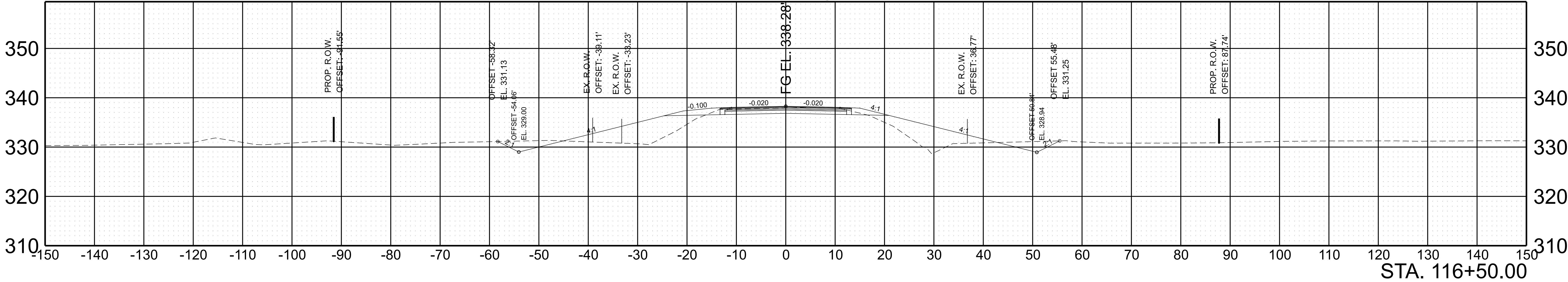
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	20



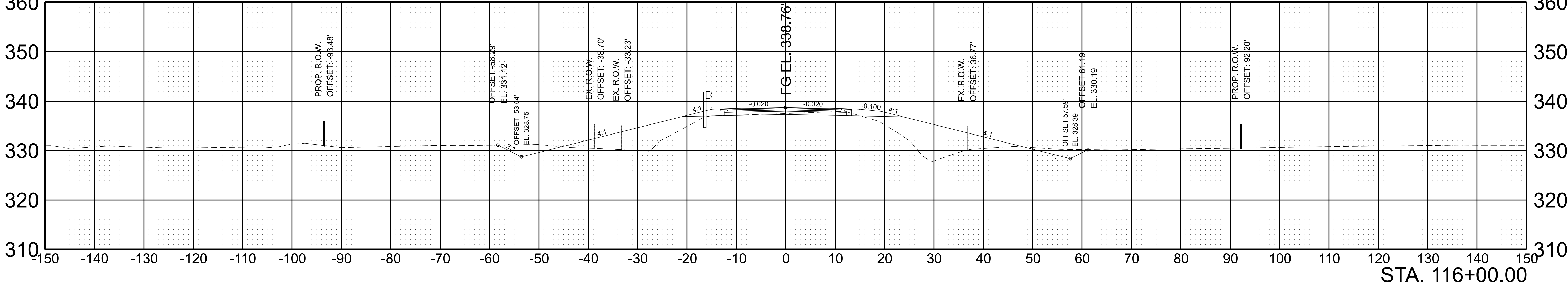
SCALE:	1"=10' HORIZ.	BEGIN STA. 115+00.00
	1"=10' VERT.	END STA. 115+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	21

S.R. 196 Bridge 20



S.R. 196 Bridge 20

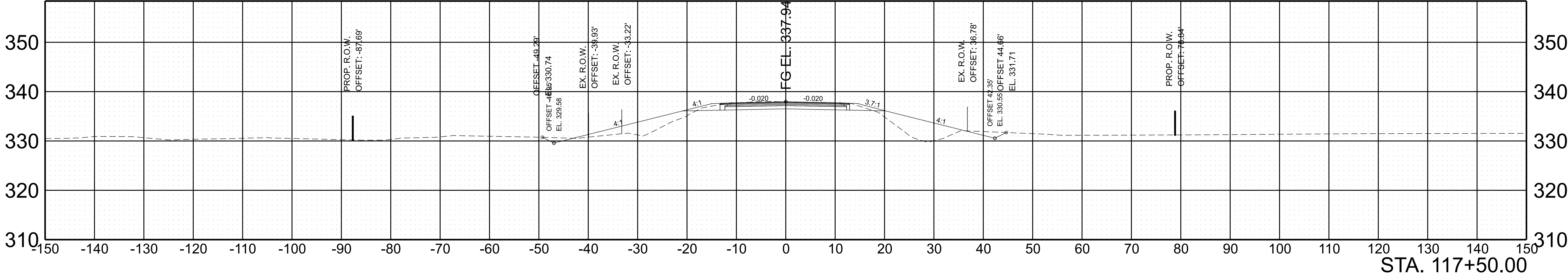


SCALE: 1"=10' HORIZ.
1"=10' VERT.

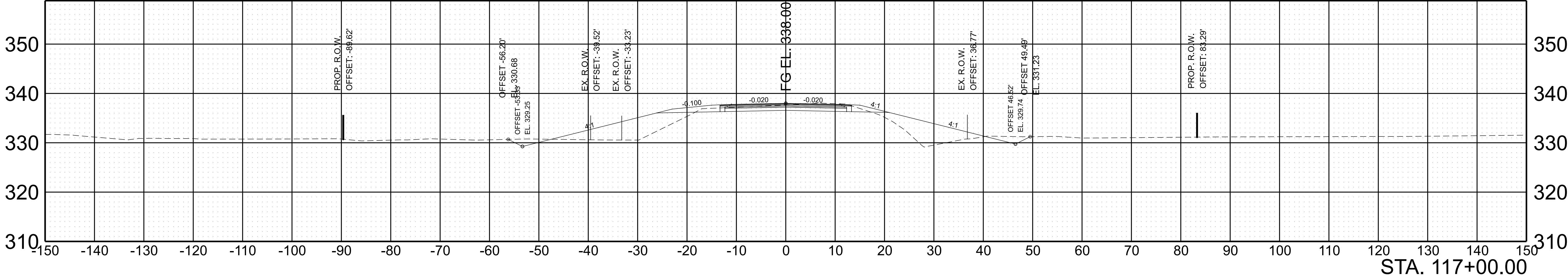
BEGIN STA. 116+00.00
END STA. 116+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	22

S.R. 196 Bridge 20

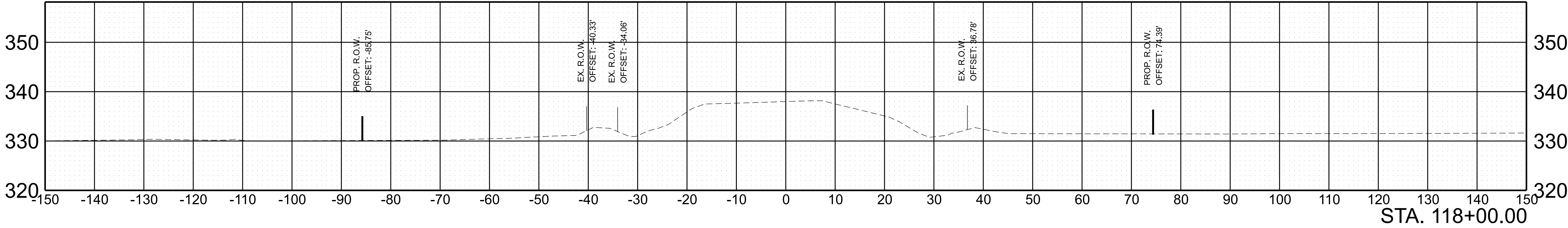
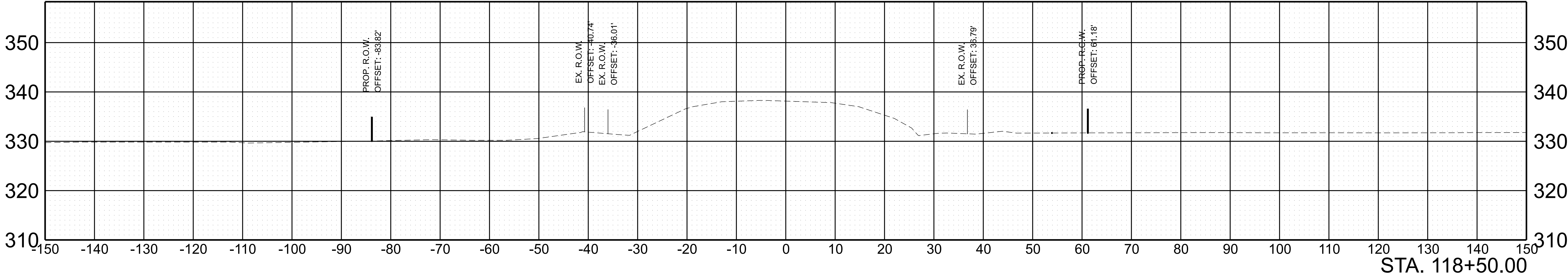


S.R. 196 Bridge 20



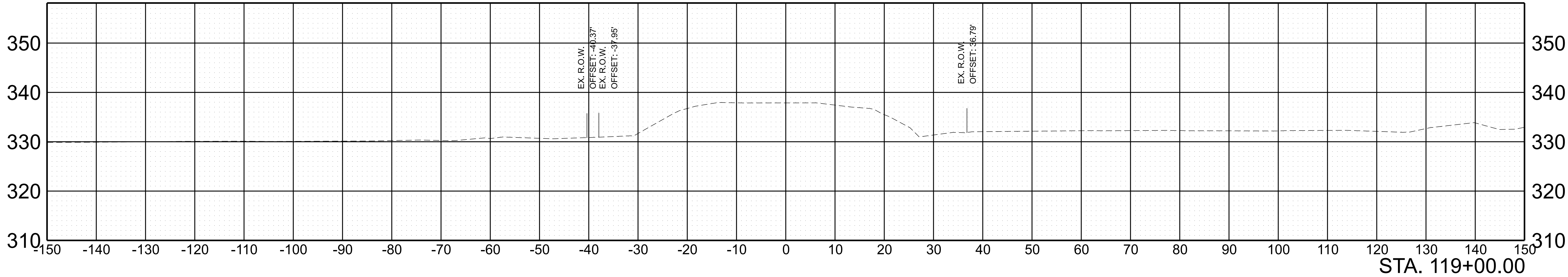
SCALE:	1"=10' HORIZ.	BEGIN STA. 117+00.00
	1"=10' VERT.	END STA. 117+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	23



SCALE:	1"=10' HORIZ.	BEGIN STA. 118+00.00
	1"=10' VERT.	END STA. 118+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	24

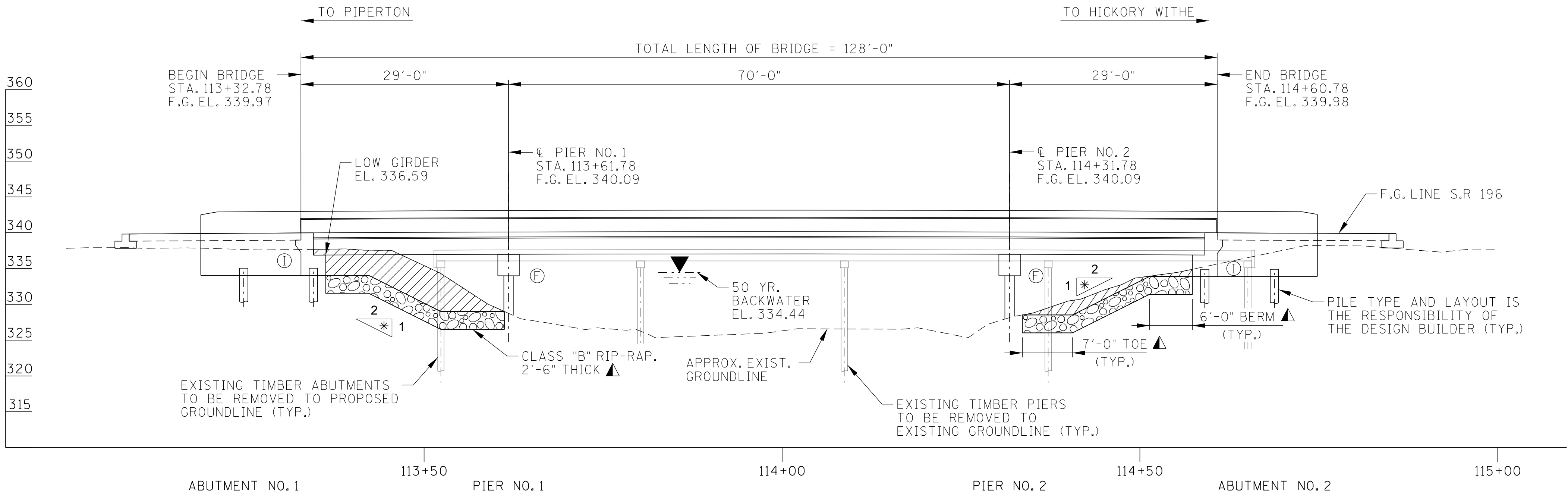


SCALE: 1"=10' HORIZ.	BEGIN STA. 119+00.00
1"=10' VERT.	END STA. 119+00.00

PROJECT NO.		YEAR	SHEET NO.
		2026	1 OF 2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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- -			

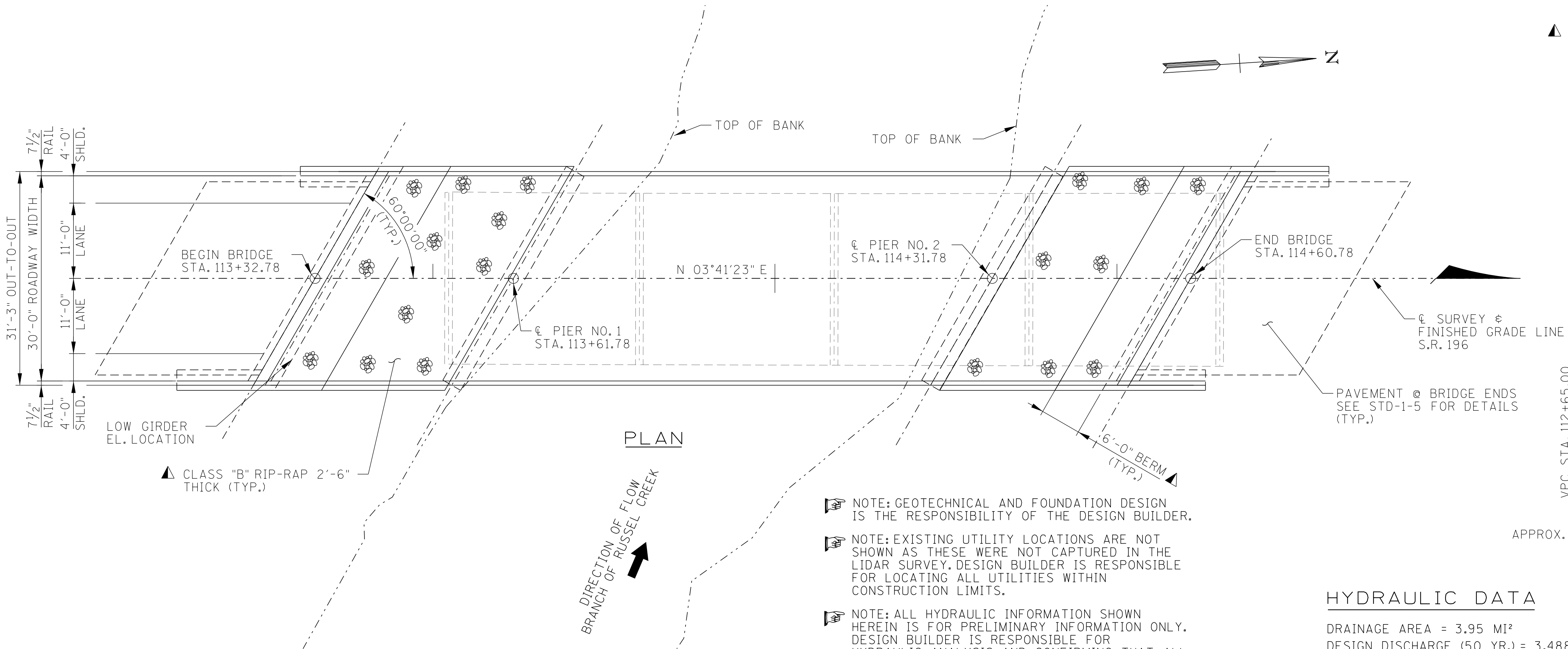
GENERAL NOTES

- CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION.)
- DESIGN SPECIFICATIONS: 10TH EDITION (2024) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
- LOADING: HL-93 LIVE LOAD INCREASED BY 10% IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS; SEISMIC CATEGORY "D" WITH $AS = 0.353$, $SDS = 0.758$, $SD1 = 0.329$ (1000 YEAR RETURN PERIOD); DEAD LOADS SHALL INCLUDE 35 LB/SQ.FT. FOR FUTURE WEARING SURFACE.
- SUPERSTRUCTURE: TO CONSIST OF 3 SPANS OF CONTINUOUS 27"x36" PRESTRESSED BOX BEAMS WITH COMPOSITE CONCRETE SLAB.
- CONCRETE: CLASS A F'C=3000, CLASS DS F'C=4000 PSI FOR BRIDGE DECK
- REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.
- BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
- USE STD-1-1SS PARAPETS.
- TEXTURE COATING: TO BE GRAY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE WHITE (37886).
- EXCAVATION: TO BE BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT PIERS.
- ▲ RIP-RAP: MACHINED RIP-RAP SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.08.
- DESIGN BUILDER TO DETERMINE IF FLUMES AT BRIDGE ENDS ARE REQUIRED.
- BRIDGE DECK DRAIN DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.
- EXISTING BRIDGE DESCRIPTION: 25'-3" OUT-TO-OUT, 4 SPANS AT 28'-9" (115'-0" TOTAL LENGTH), CONTINUOUS CONCRETE DECK GIRDER BRIDGE WITH TIMBER SUBSTRUCTURE.
- STREAM CHANNEL: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER/BENT FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).
- ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST 1/8" UNDER TOTAL DEAD LOAD.



ELEVATION

- ① DENOTES: INTEGRAL
ⓔ DENOTES: FIXED
▨ DENOTES: AREA TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM
- * DENOTES: ORIENTED AT RIGHT ANGLE TO ABUTMENT (TYP.)
▲ DENOTES: RIP-RAP CLASS, THICKNESS, AND LIMITS TO BE VERIFIED BY THE DESIGN BUILDER USING TDOT GUIDELINES (TYP.)



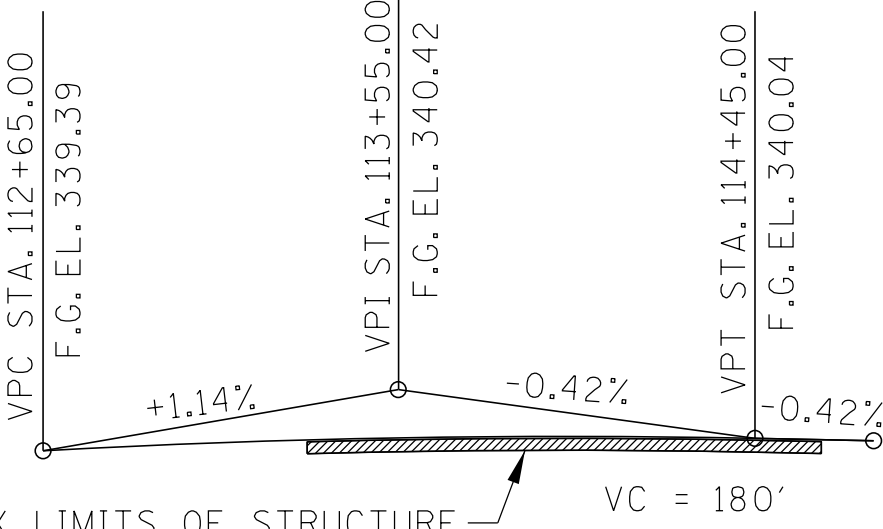
PLAN

- NOTE: GEOTECHNICAL AND FOUNDATION DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.
- NOTE: EXISTING UTILITY LOCATIONS ARE NOT SHOWN AS THESE WERE NOT CAPTURED IN THE LIDAR SURVEY. DESIGN BUILDER IS RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN CONSTRUCTION LIMITS.
- NOTE: ALL HYDRAULIC INFORMATION SHOWN HEREIN IS FOR PRELIMINARY INFORMATION ONLY. DESIGN BUILDER IS RESPONSIBLE FOR HYDRAULIC ANALYSIS AND CONFIRMING THAT ALL HYDRAULIC CRITERIA CAN BE MET.

NOTE: EXISTING BRIDGE NO. 24S81090007 AND APPROACHES TO BE REMOVED TO NATURAL GROUND BETWEEN STATIONS 113+51.74 AND 114+65.59

HYDRAULIC DATA

DRAINAGE AREA = 3.95 MI²
DESIGN DISCHARGE (50 YR.) = 3,488 CFS
WATER AREA PROVIDED BELOW EL. 334.44 = 568.93 FT²
50 YR. VELOCITY = 5.56 FPS
50 YR. BRIDGE BACKWATER = 1.36 FT
ROADWAY OVERTOPPING EL. 338.94
100 YR. DISCHARGE = 3,922 CFS @ EL. 334.84



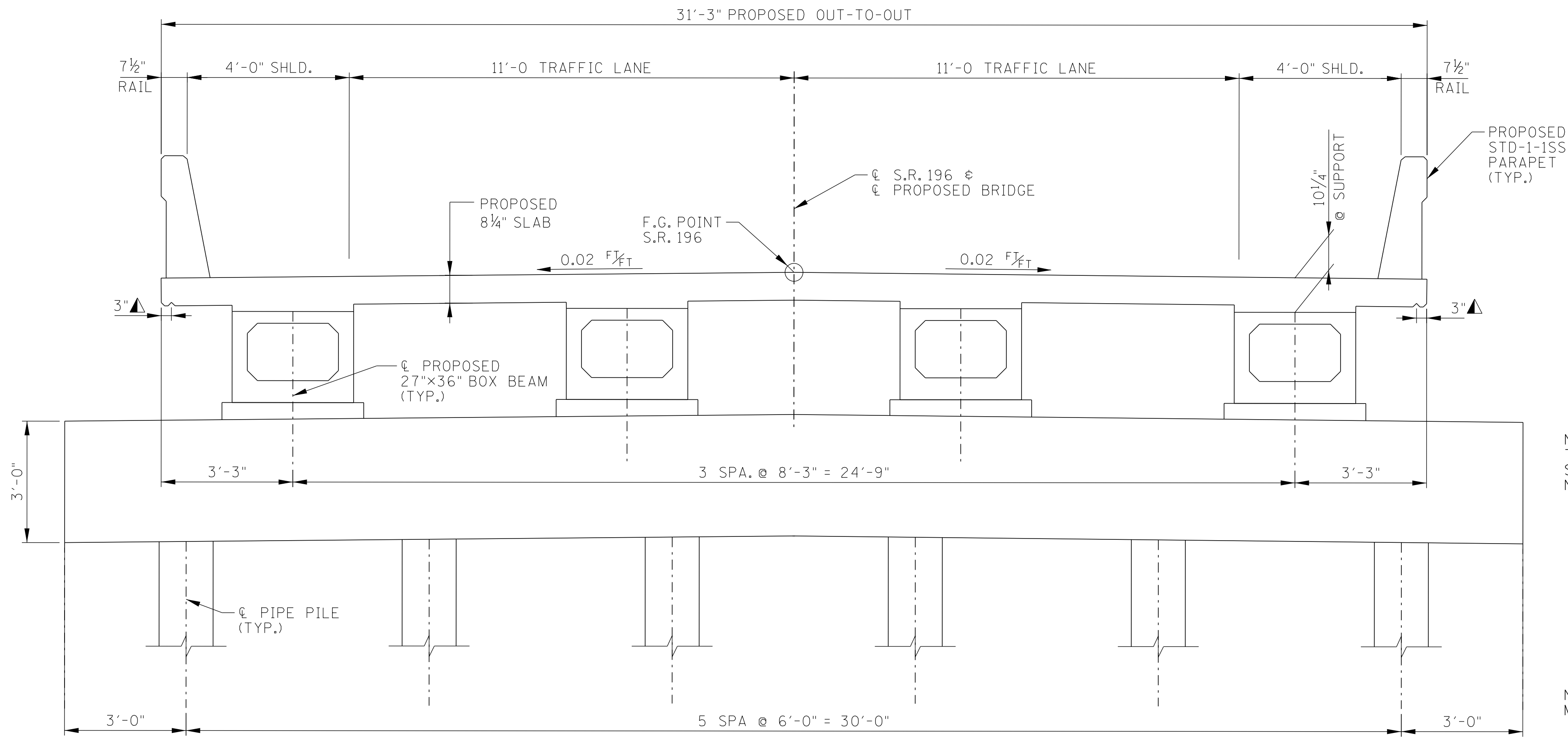
GRADE SKETCH
STATE ROUTE 196

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**CONCEPTUAL LAYOUT OF BRIDGE
STATE ROUTE 196
OVER RUSSELL CREEK BRANCH
BRIDGE I.D NO. 24S81090007
LOG MILE - 14.12
STA. 113+96.78
FAYETTE COUNTY**

PIN NO.: 137109.05
DESIGN BY: A. VILLAGOMEZ DATE: 05/2026
DRAWN BY: A. VILLAGOMEZ DATE: 05/2026
SUPERVISED BY: H. NEAL DATE: 05/2026
CHECKED BY: B. WELLS DATE: 05/2026



CONST. NO.: R4SVAR-S1-058			
PROJECT NO.		YEAR	SHEET NO.
		2026	2 OF 2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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	- -		
	- -		
	- -		
	- -		

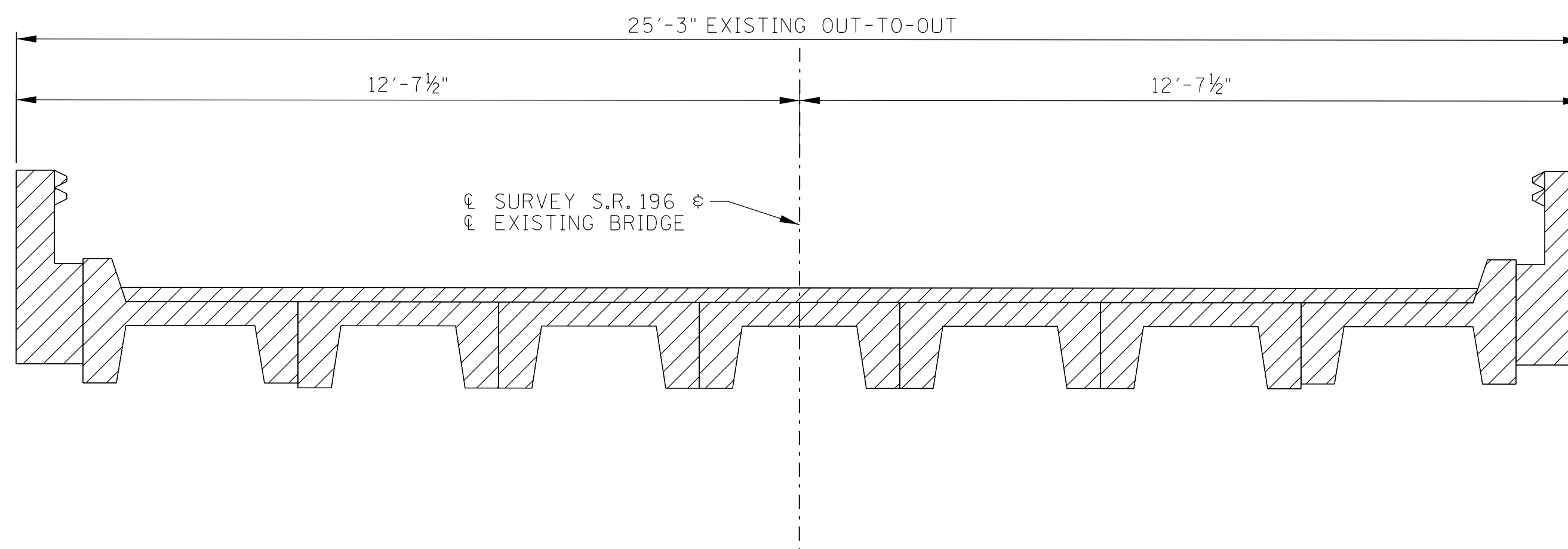


NOTE: DESIGN BUILDER IS RESPONSIBLE FOR THE FOUNDATION DESIGN. PIPE PILES ARE SHOWN FOR GENERAL DETAILING. THIS DOES NOT IMPLY THAT PIPE PILES MUST BE USED.

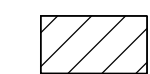
NOTE: SUBSTRUCTURE DIMENSIONS ARE MEASURED ALONG ϕ OF PIER.

PROPOSED TYPICAL CROSS-SECTION
(LOOKING FORWARD ON SURVEY)

Δ DENOTES: 1" TRIANGULAR DRIP NOTCH TO RUN FULL LENGTH OF SLAB



EXISTING TYPICAL CROSS-SECTION
(LOOKING FORWARD ON SURVEY)

 DENOTES: EXISTING STRUCTURE TO BE REMOVED

PIN NO.: 137109.05
DESIGN BY: A. VILLAGOMEZ DATE: 05/2026
DRAWN BY: A. VILLAGOMEZ DATE: 05/2026
SUPERVISED BY: H. NEAL DATE: 05/2026
CHECKED BY: B. WELLS DATE: 05/2026



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL TYPICAL SECTION
STATE ROUTE 196
OVER RUSSELL CREEK BRANCH
BRIDGE I.D NO. 24S81090007
LOG MILE - 14.12
STA. 113+96.78
FAYETTE COUNTY