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PIN 136185.05
END PROJECT NO. R.O.W.

STA. 132+02.60 BRIDGE3132-HA
N 528312.9331 E 955243.5397

PIN 136185.05
END PROJECT NO. PRELIMINARY

STA. 130+84.43 BRIDGE3132-HA
N 528197.6748 E 955269.5797

END PIN NO. 136185.04 PRELIMINARY
BEGIN PIN NO. 136185.05 PRELIMINARY

STA. 123+69.23 BRIDGE3132-HA
N 527500.0487 E 955427.1924

PIN 136185.04
END PROJECT NO. ROW
STA. 122+08.20 Bridge3132-HA
N 527342.9471 E 955462.5209

PIN 136185.05
BEGIN PROJECT NO. ROW
STA. 121+47.88 Bridge3132-HA
N 527284.0060 E 955475.3569

PIN 136185.04
BEGIN PROJECT NO. PRELIMINARY
STA. 115+93.04 BRIDGE3132-HA
N 526731.3482 E 955516.2130

PIN 136185.04
BEGIN PROJECT NO. R.O.W.
STA. 115+00.00 BRIDGE3132-HA
N 526638.3421 E 955513.8162

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: STEVE SELLERS

DESIGN FIRM : GRESHAM SMITH

DESIGNER : J. ALEX STANLEY, P.E. CHECKED BY BEN COLES, P.E.

P.E. NO.

PIN NO. 136185.04 & 136185.05

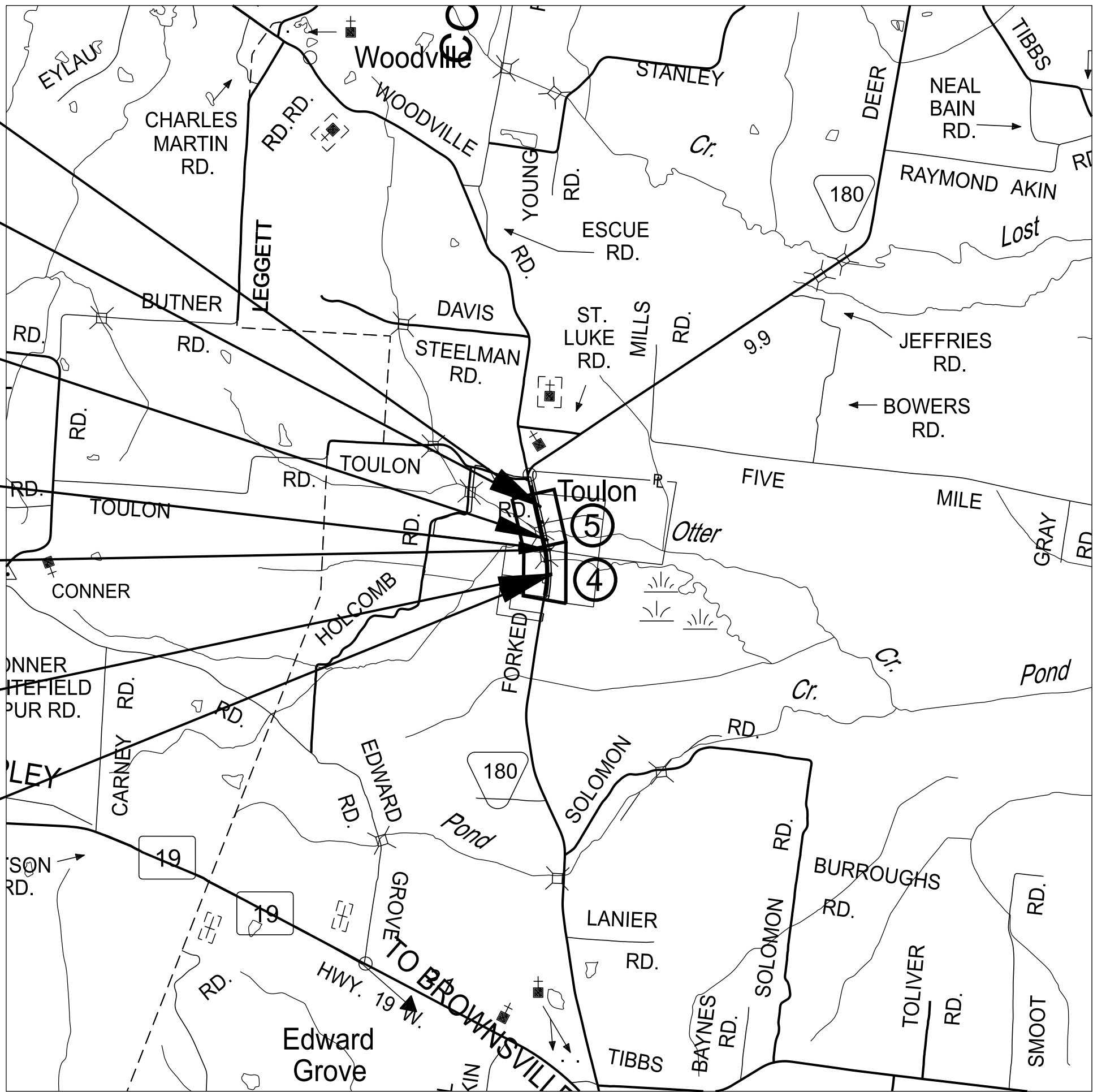
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAYWOOD COUNTY

STATE ROUTE 180 (FORKED DEER ROAD)
BRIDGES OVER
OTTER CREEK L.M. 2.61 AND 2.74

LINE AND GRADE
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 180 F.A.H.S. NO.



SCALE: 1"= 1/2 MILE

R.O.W. LENGTH	0.318 MILES
ROADWAY LENGTH	0.282 MILES
BRIDGE LENGTH	0.029 MILES
PROJECT LENGTH	0.309 MILES

DOES THIS PROJECT QUALIFY
FOR UTILITY CHAPTER 86

YES

NO

TENN.

YEAR

2025

SHEET NO.

1

FED. AID PROJ. NO.

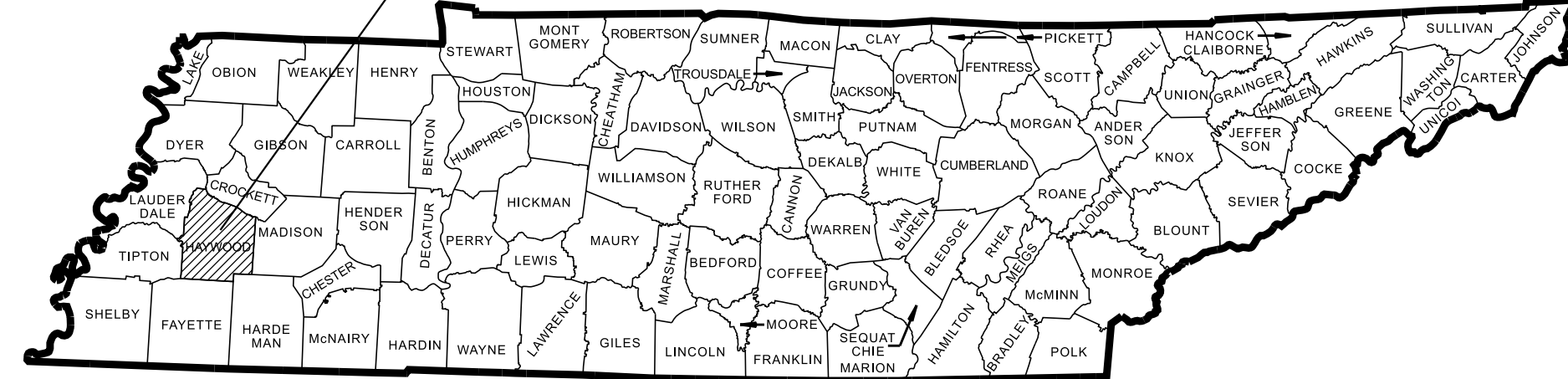
STATE PROJ. NO.

R4SVAR-S1-049

PROJECT LOCATION

BRIDGE ID. # 38S80510003

BRIDGE ID. # 38S80510005



NO EXCLUSIONS

CAUTION!
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

APPROVED:

WILL REID, CHIEF ENGINEER

DATE:

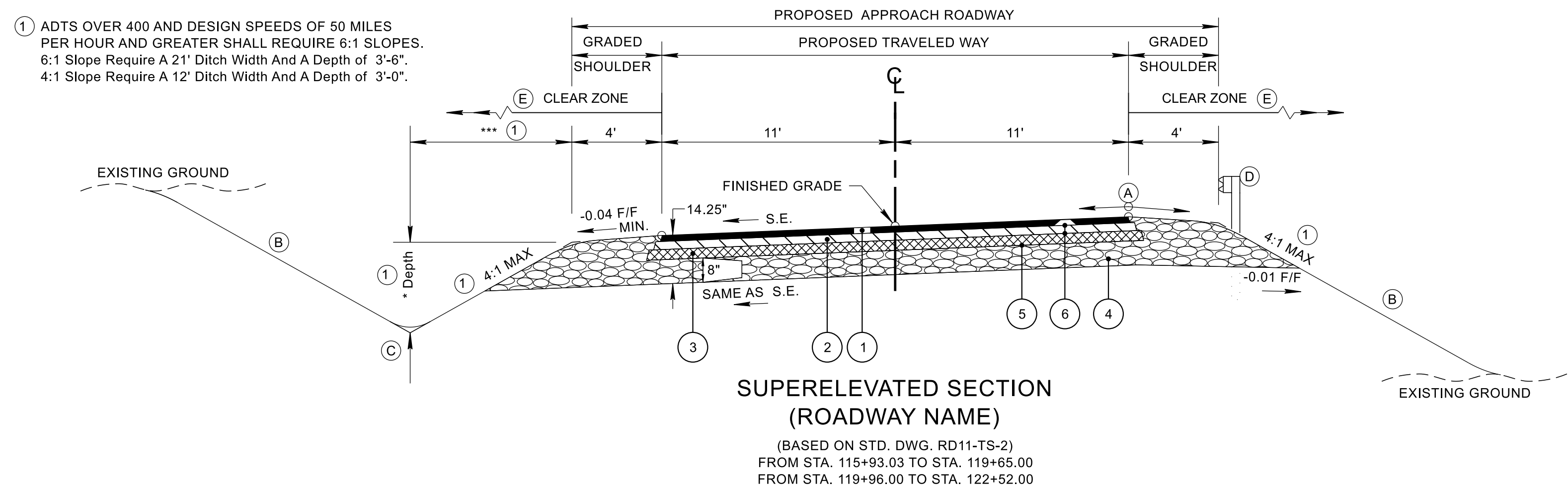
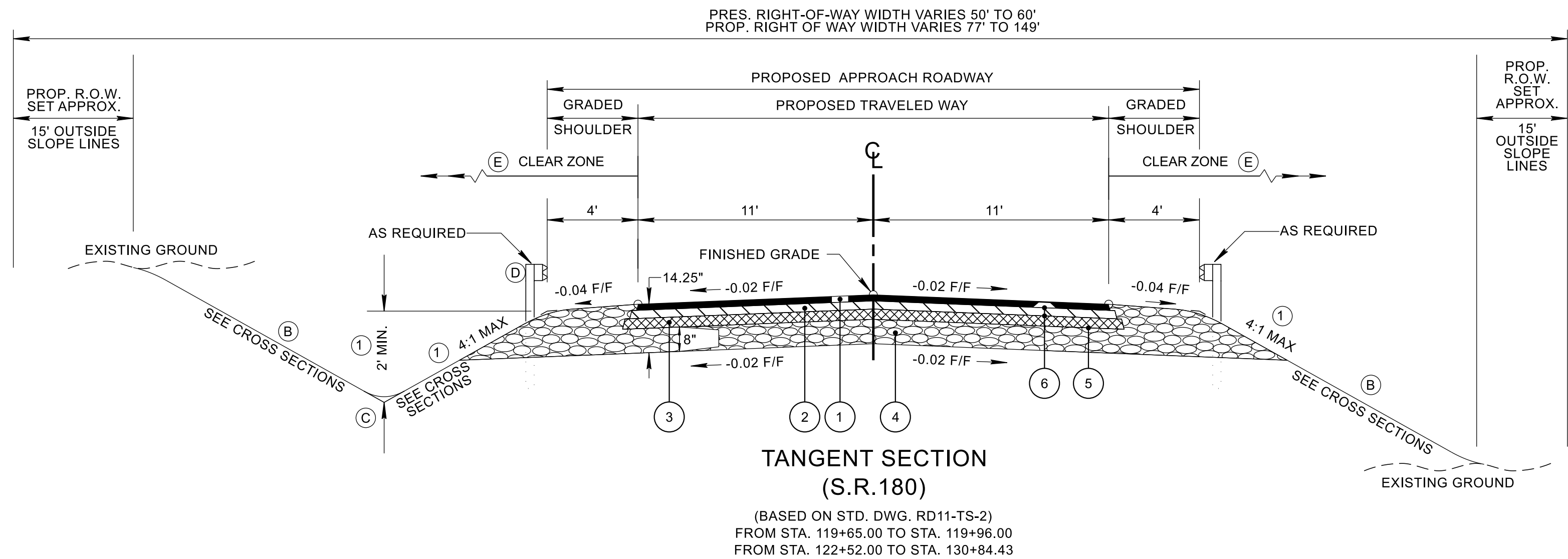
APPROVED:

WILL REID, COMMISSIONER

SURVEY 6-3-25	TRAFFIC DATA
	ADT (2029)
	ADT (2049) 630
	DHV (2049) 82
	D -
	T (ADT) 5 %
	T (DHV) %
	V 50 MPH

COORDINATES ARE NAD/83(2011) ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING GEOID 18 MODEL OBTAINED ON 02/25/2025.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	2B

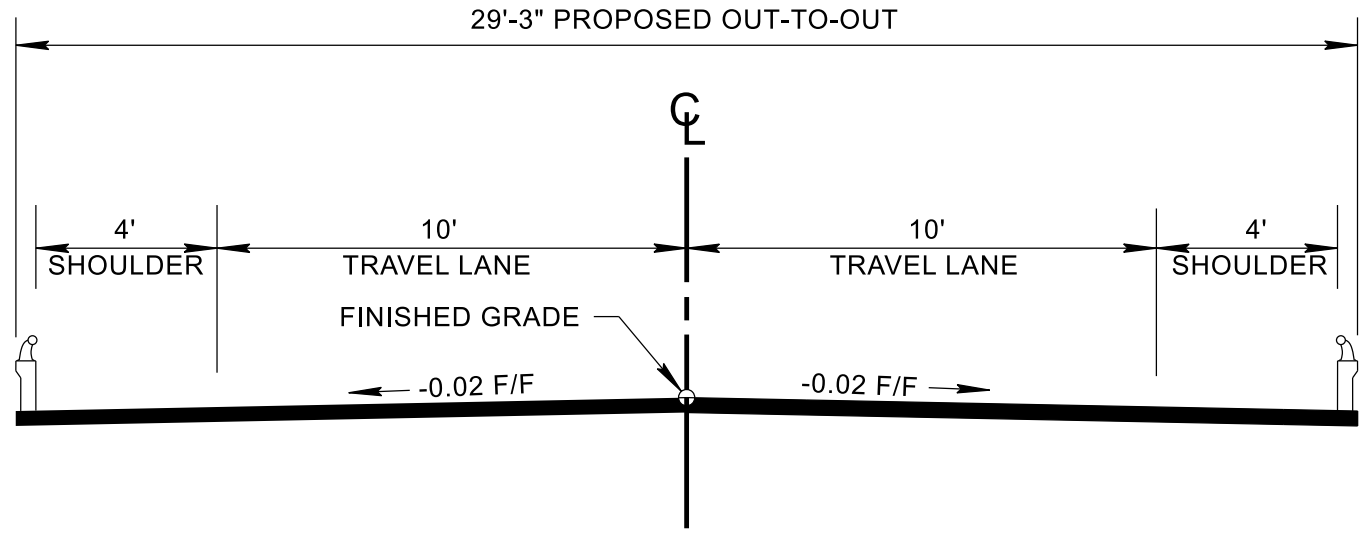


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

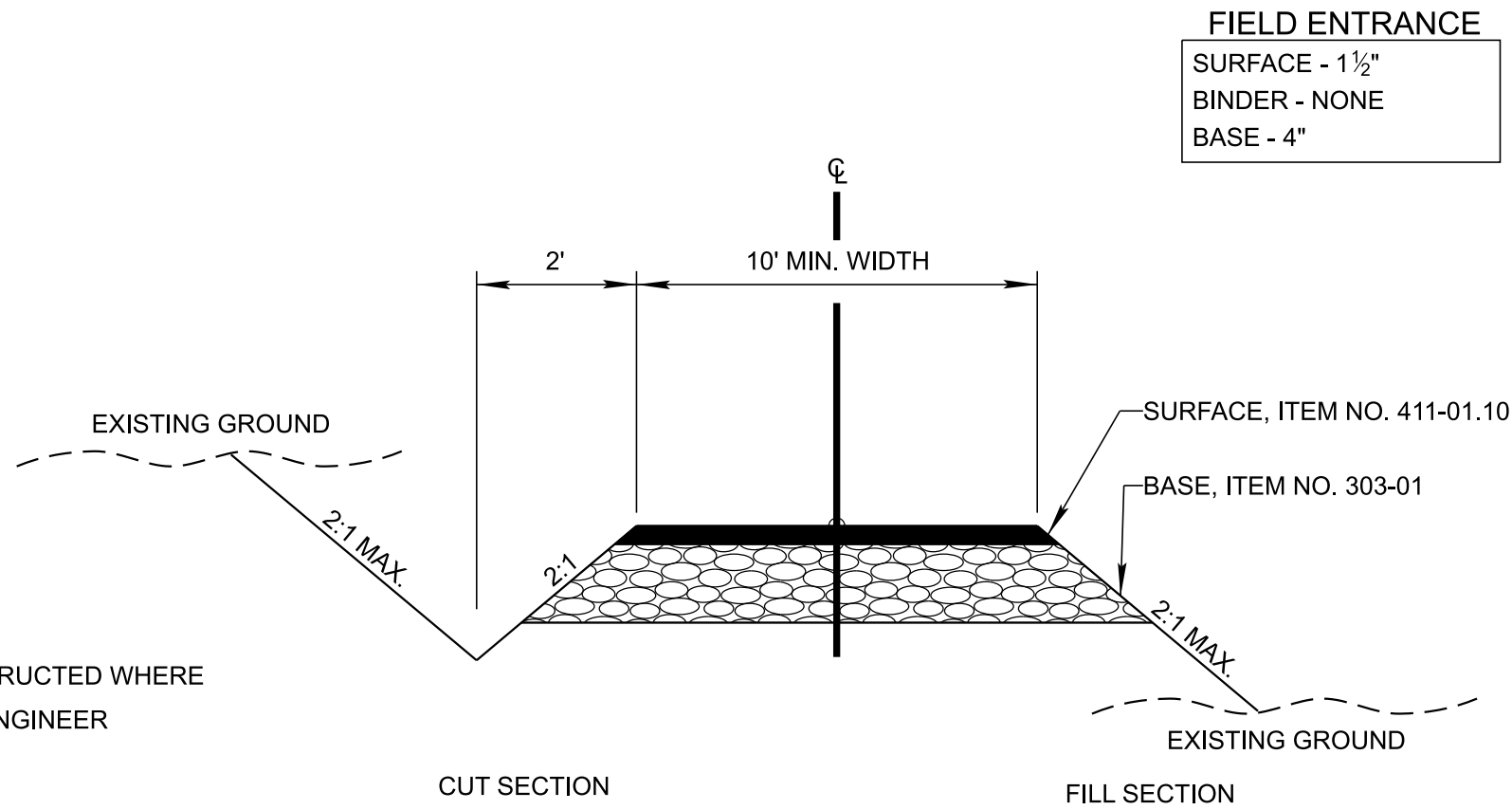
TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	2B1



BRIDGE SECTION
(S.R.180)

APPROACH SLAB 1: FROM STA. 117+96.21 TO STA. 118+71.21
BRIDGE 31: FROM STA. 124+70.14 TO STA. 125+50.14
APPROACH SLAB 2: FROM STA. 124+70.14 TO STA. 125+50.14
APPROACH SLAB 3: FROM STA. 124+70.14 TO STA. 125+50.14
BRIDGE 32: FROM STA. 124+70.14 TO STA. 125+50.14
APPROACH SLAB 4: FROM STA. 124+70.14 TO STA. 125+50.14



NOTE: DITCH TO BE CONSTRUCTED WHERE
DIRECTED BY THE ENGINEER

TYPICAL SECTION
PRIVATE DRIVE TO FIELD

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"	⑤ PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.30-0.35 GALLONS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 8-12 LB./S.Y.
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"	⑥ 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"	
④ MINERAL AGGREGATE 8" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

RIGHT-OF-WAY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, __ (A) __ TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) 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.
- (6) NO WORK SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS STREAM/WETLAND MITIGATION RIGHT-OF-WAY OR MITIGATION AREA. NO UTILITY RELOCATION OR OTHER LAND DISTURBANCE IS AUTHORIZED. ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM/WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE STREAM MITIGATION PLANS (ADD PLAN SHEET NUMBERS HERE). ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH THE ENVIRONMENTAL PERMIT REQUIREMENTS.

UTILITY OWNERS

TELEPHONE/FIBER:
AT&T DISTRIBUTION
1209 PARK AVE.
MURFREESBORO, TN 37129
CONTACT: KENNETH "LEE" KORNEGAY
OFFICE PHONE: 615 848 2082
CELL PHONE: 615 631 7221
Email: KK4096@ATT.NET

ELECTRIC/FIBER:
FORKED DEER ELECTRIC CO-OP, INC.
1135 N. CHURCH ST.
HALLS, TN 38040
CONTACT: NA
OFFICE PHONE: 731 836 7508
CELL PHONE: NA
Email: NA

GAS/WATER:
TOWN OF HALLS UTILITIES
208 N. CHURCH ST.
HALLS, TN 38040
CONTACT: ALLEN CHERRY
OFFICE PHONE: 731 225 9786
CELL PHONE: NA
Email: NA

GAS/WATER/ELECTRIC/SEWER:
BROWNSVILLE UTILITIES
25 N. LAFAYETTE AVE.
BROWNSVILLE, TN 38012
CONTACT: DWAYNE JONES
OFFICE PHONE: 731 772 8845
CELL PHONE: 731 780 0851
Email: NA

WATER/SEWER:
HAYWOOD COUNTY UTILITY DISTRICT
12750 HIGHWAY 76 S
STANTON, TN 38069
CONTACT: NA
OFFICE PHONE: 731 548 2557
CELL PHONE: NA
Email: NA

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	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	2025	R4SVAR-S1-049	3A

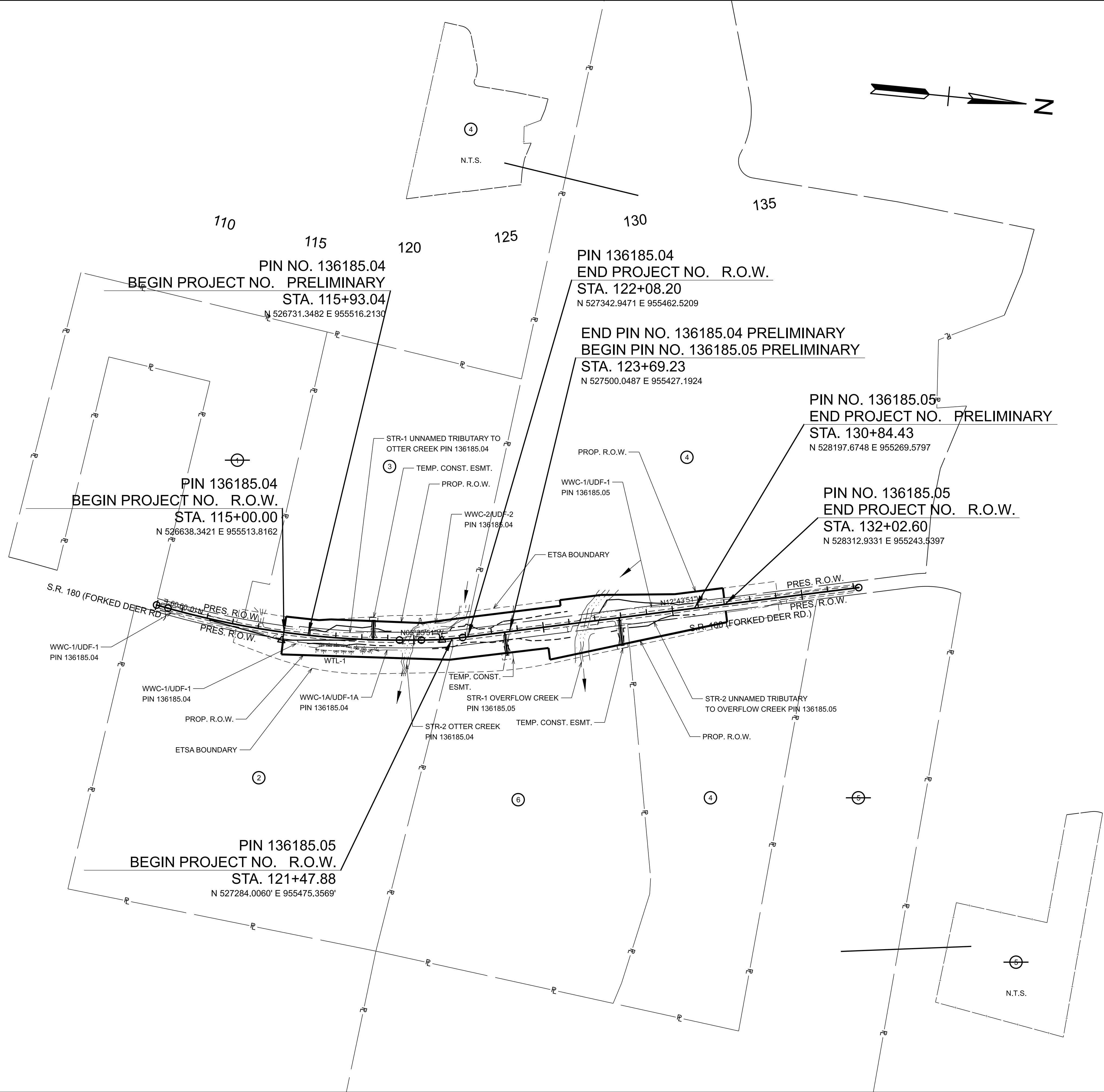
R.O.W. ACQUISITION TABLE PIN 136185.04 & 136185.05																		
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)				
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST	AIR RIGHTS	PERM RAILROAD
				BOOK	PAGE													
1	STEVEN AND CRYSTAL BUCKNER	013	040.01	158	305	17.818		17.818				17.818						
2	ALAN AND JENNIFER JORDAN	013	039.00	188	119		31.305	31.305		0.643	0.643		30.662					
3	RAY AND DOROTHY ABLES	013	038.00	47	148	19.339		19.339	0.627		0.627	18.712				439 S.F.		
4	WILLIAM B. HATHCOCK REVOCABLE TRUST	013	025.00	234	625	73.848	19.387	93.235	1.069	0.483	1.552	72.779	18.904					
5	THE LUKES FAMILY TRUST	013	029.00	192	566		96.218	96.218					96.218					
6	ALAN AND JENNIFER JORDAN	013	030.00	188	119		26.233	26.233		1.023	1.023		25.210			1674 S.F.		
ACQUISITION TOTALS (ACRES)									3.844							2113 S.F.		

DISTURBED AREA		
IN BETWEEN SLOPE LINES		2.309 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)		2.702 (AC)
TOTAL DISTURBED AREA		5.010 (AC)
TOTAL PROJECT AREA		9.846 (AC)

SEALED BY

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	3B



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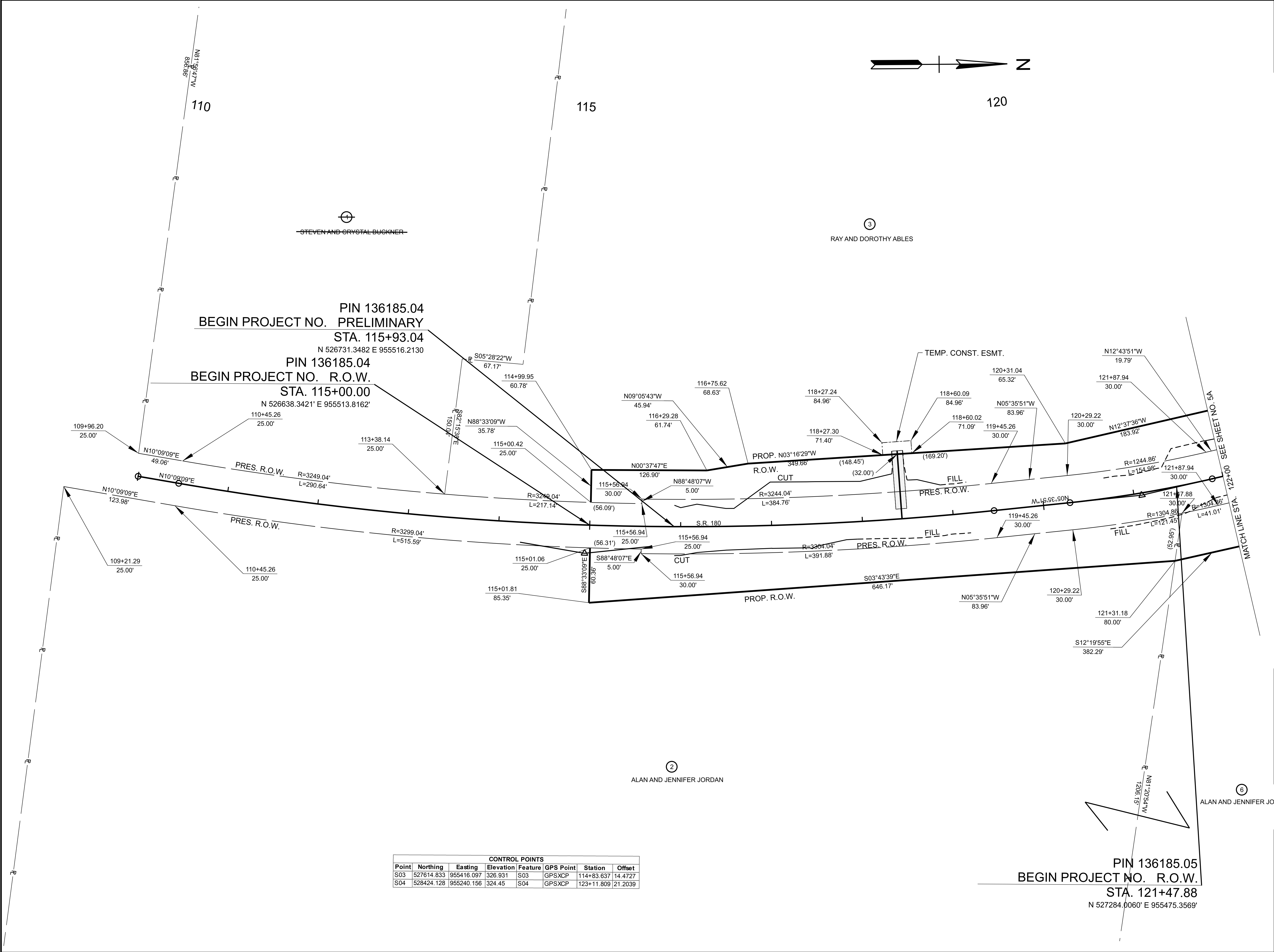
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPERTY
MAP**

STA. 100+00.00 TO STA. 148+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	4A



CONTROL POINTS							
Point	Northing	Easting	Elevation	Feature	GPS Point	Station	Offset
S03	527614.833	955416.097	326.931	S03	GPSXCP	114+83.637	14.4727
S04	528424.128	955240.156	324.45	S04	GPSXCP	123+11.809	21.2039

SEALED BY

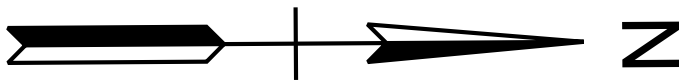
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 110+00.00 TO STA. 122+00.00
SCALE: 1" = 50'

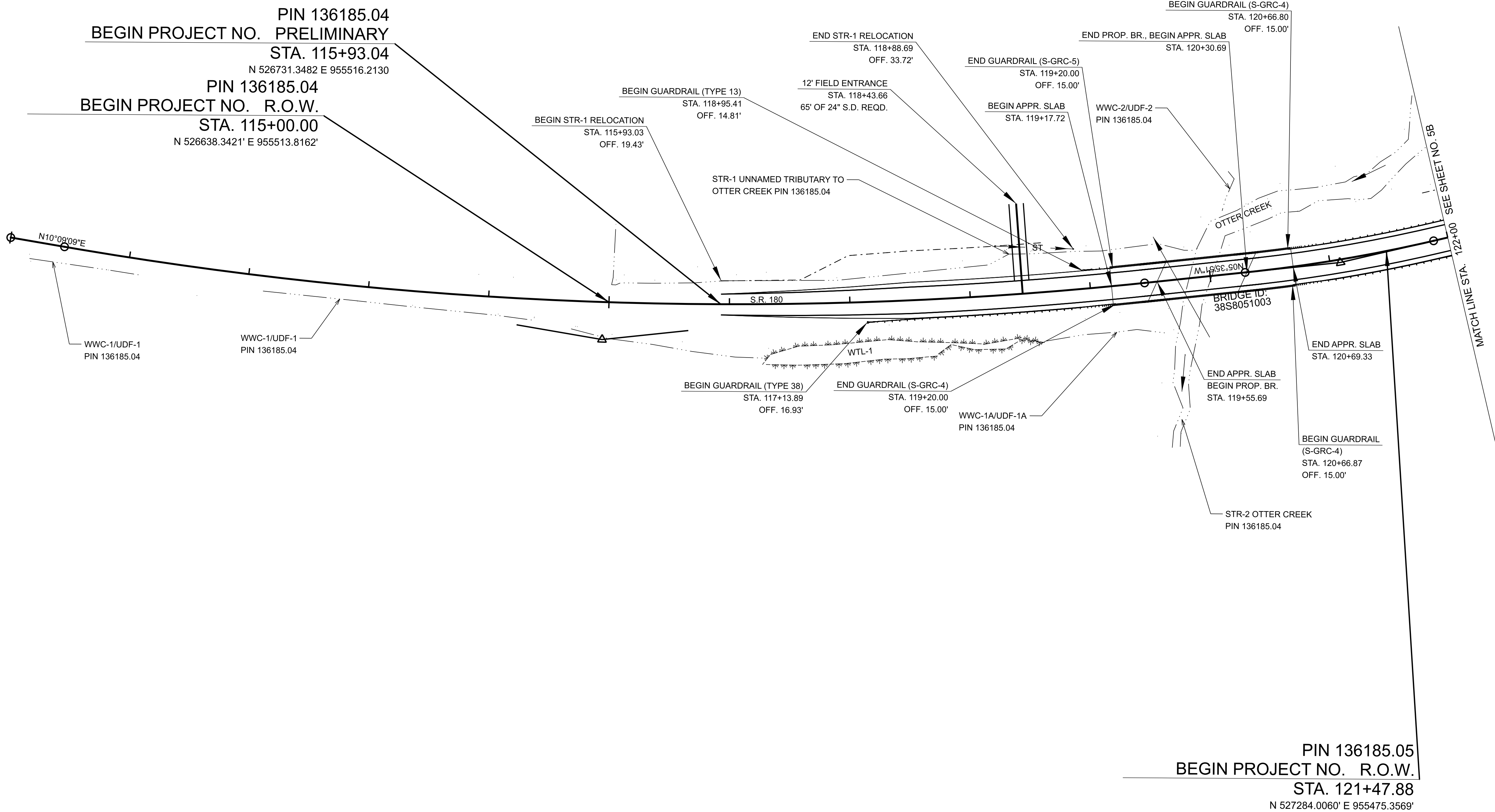
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	4B



110

115

120



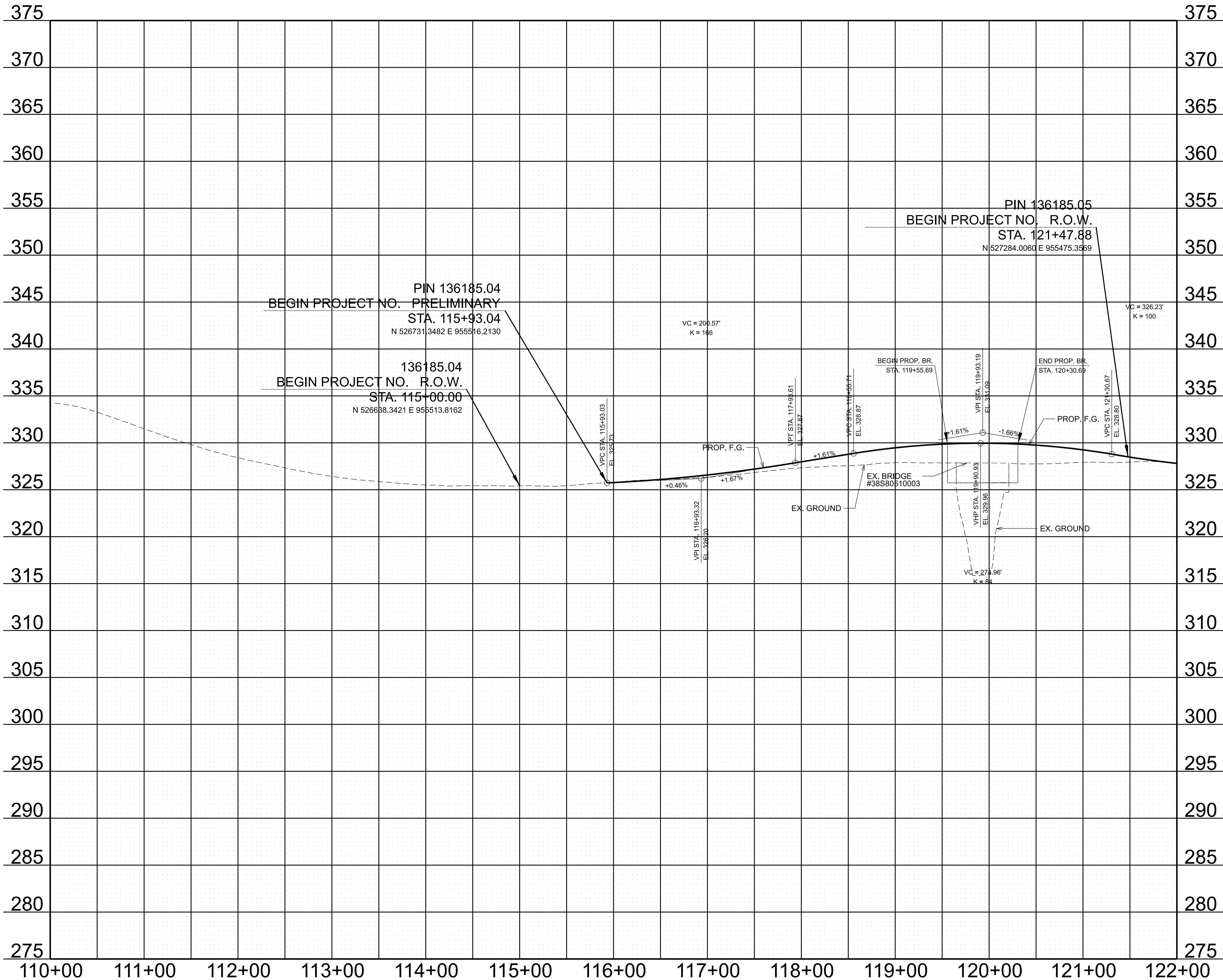
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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
LAYOUT**

STA. 110+00.00 TO STA. 122+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	4C

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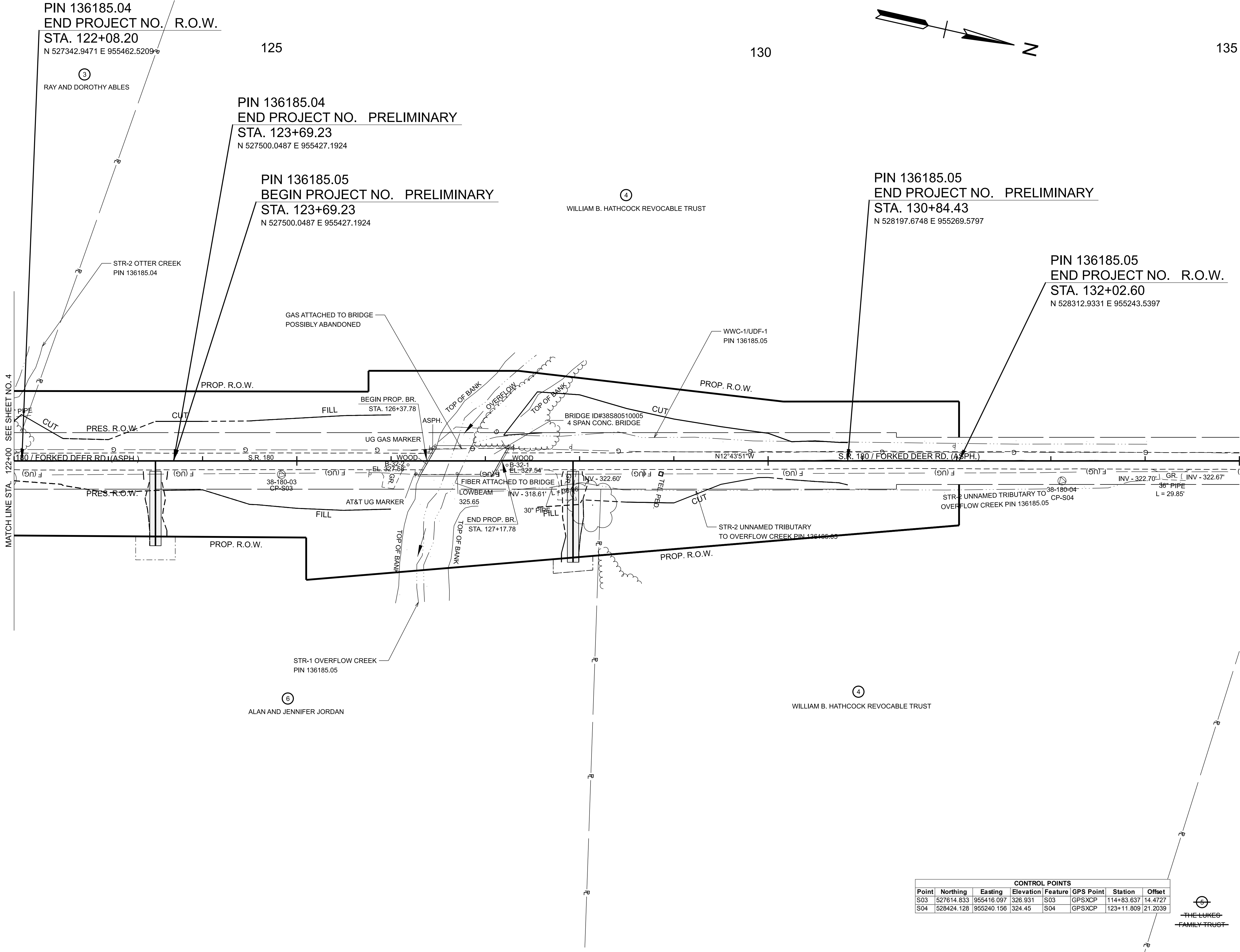
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

STA. 110+00.00 TO STA. 122+00.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	5



CONTROL POINTS						
Point	Northing	Easting	Elevation	Feature	GPS Point	Station
S03	527614.833	955416.097	326.931	S03	GPSXCP	114+83.637
S04	528424.128	955240.156	324.45	S04	GPSXCP	123+11.809

SEALED BY

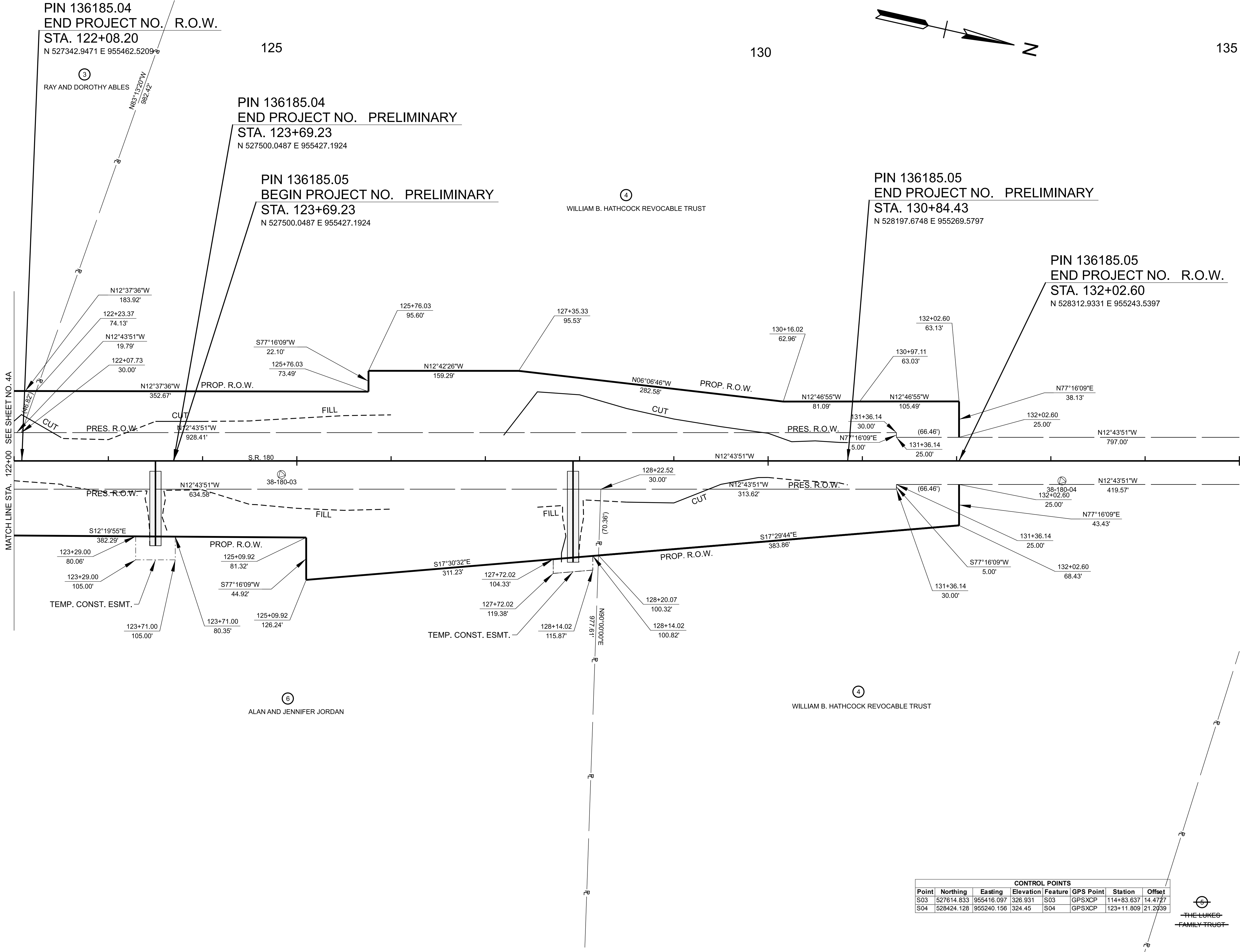
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 122+00.00 TO STA. 134+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	5A



CONTROL POINTS						
Point	Northing	Easting	Elevation	Feature	GPS Point	Station
S03	527614.833	955416.097	326.931	S03	GPSXCP	114+83.637
S04	528424.128	955240.156	324.45	S04	GPSXCP	123+11.809

THE LUKES
FAMILY TRUST

SEALED BY

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 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 122+00.00 TO STA. 134+00.00
SCALE: 1" = 50'

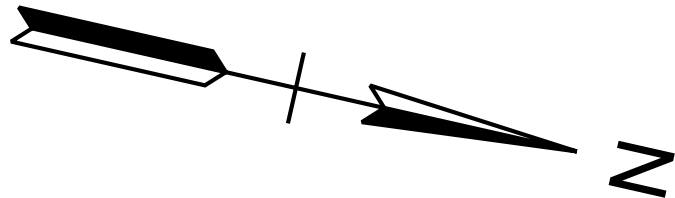
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STA. 122+08.20
N 527342.9471 E 955462.5209

125

130

135

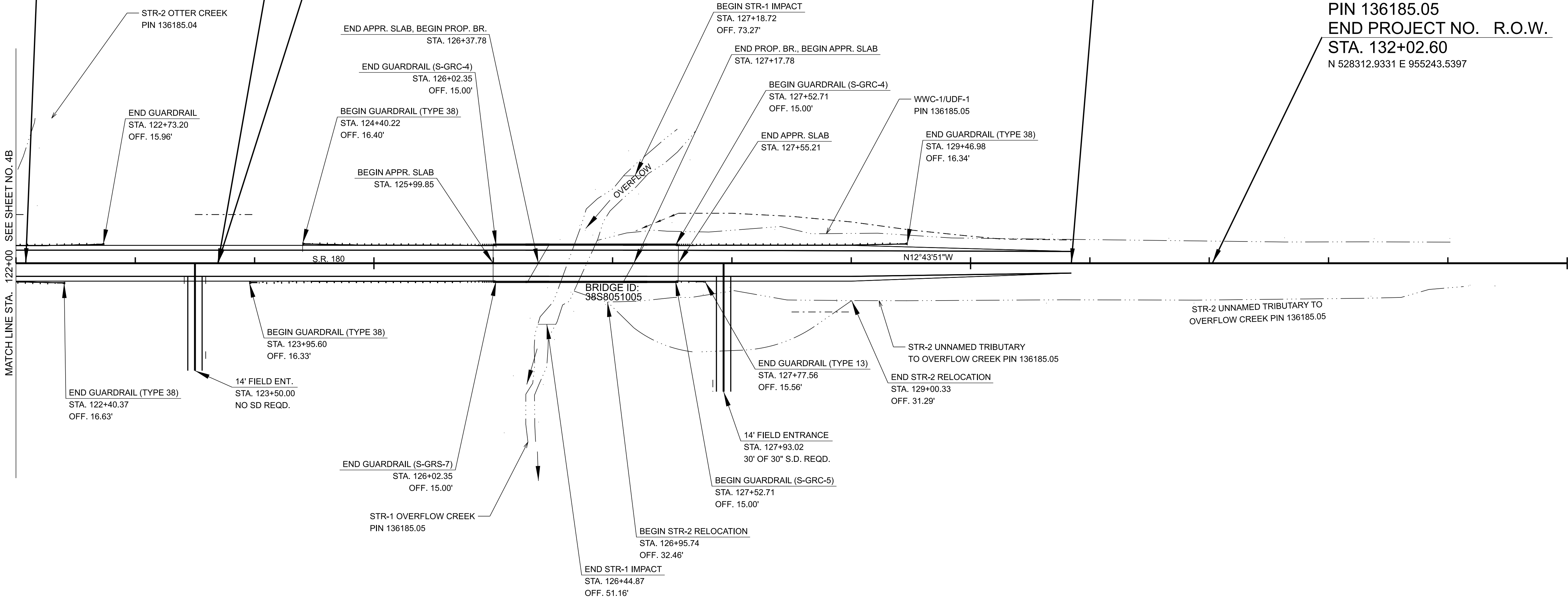


PIN 136185.04
END PROJECT NO. PRELIMINARY
STA. 123+69.23
N 527500.0487 E 955427.1924

PIN 136185.05
BEGIN PROJECT NO. PRELIMINARY
STA. 123+69.23
N 527500.0487 E 955427.1924

PIN 136185.05
END PROJECT NO. PRELIMINARY
STA. 130+84.43
N 528197.6748 E 955269.5797

PIN 136185.05
END PROJECT NO. R.O.W.
STA. 132+02.60
N 528312.9331 E 955243.5397



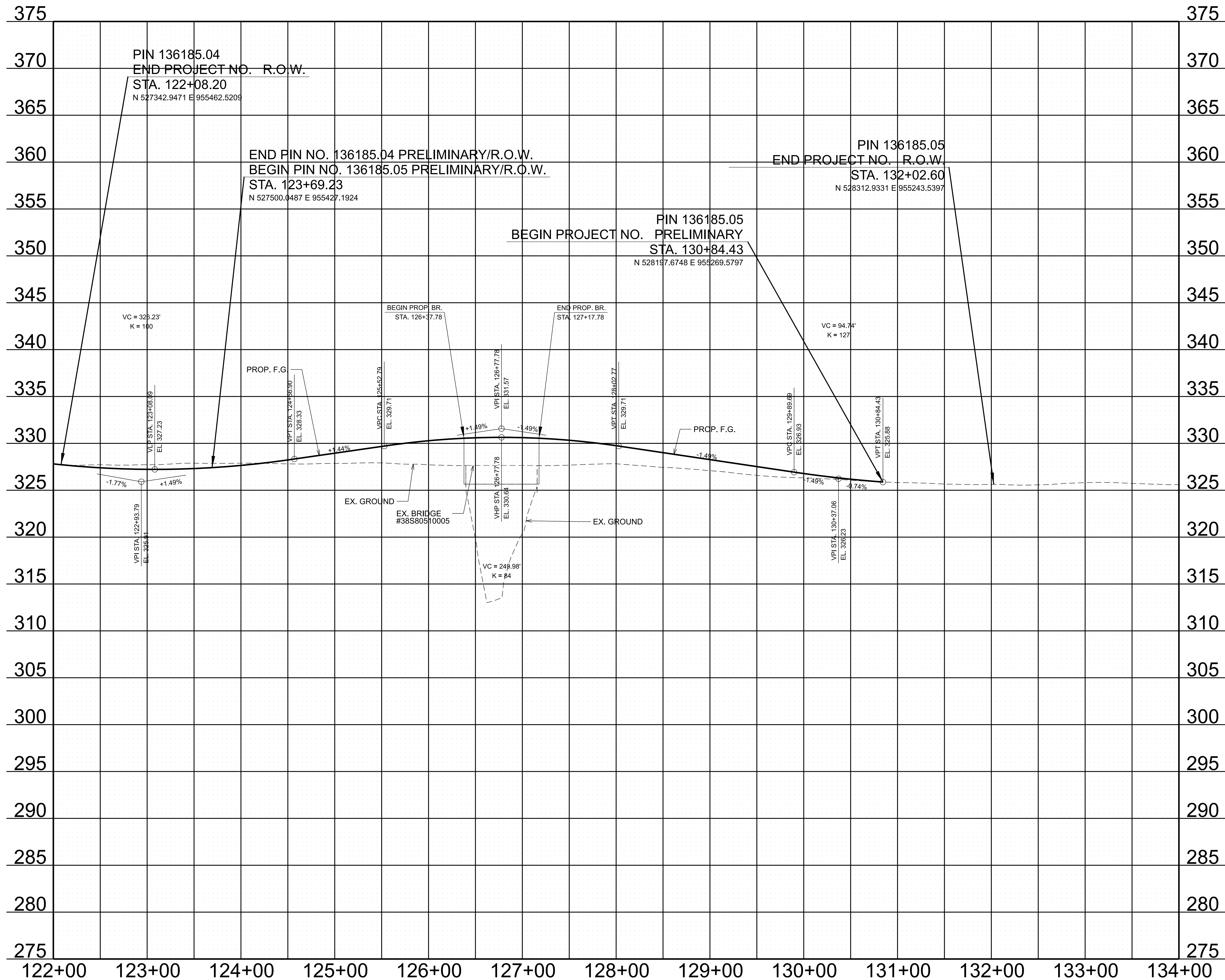
SEALED BY

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 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 122+00.00 TO STA. 134+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	5C

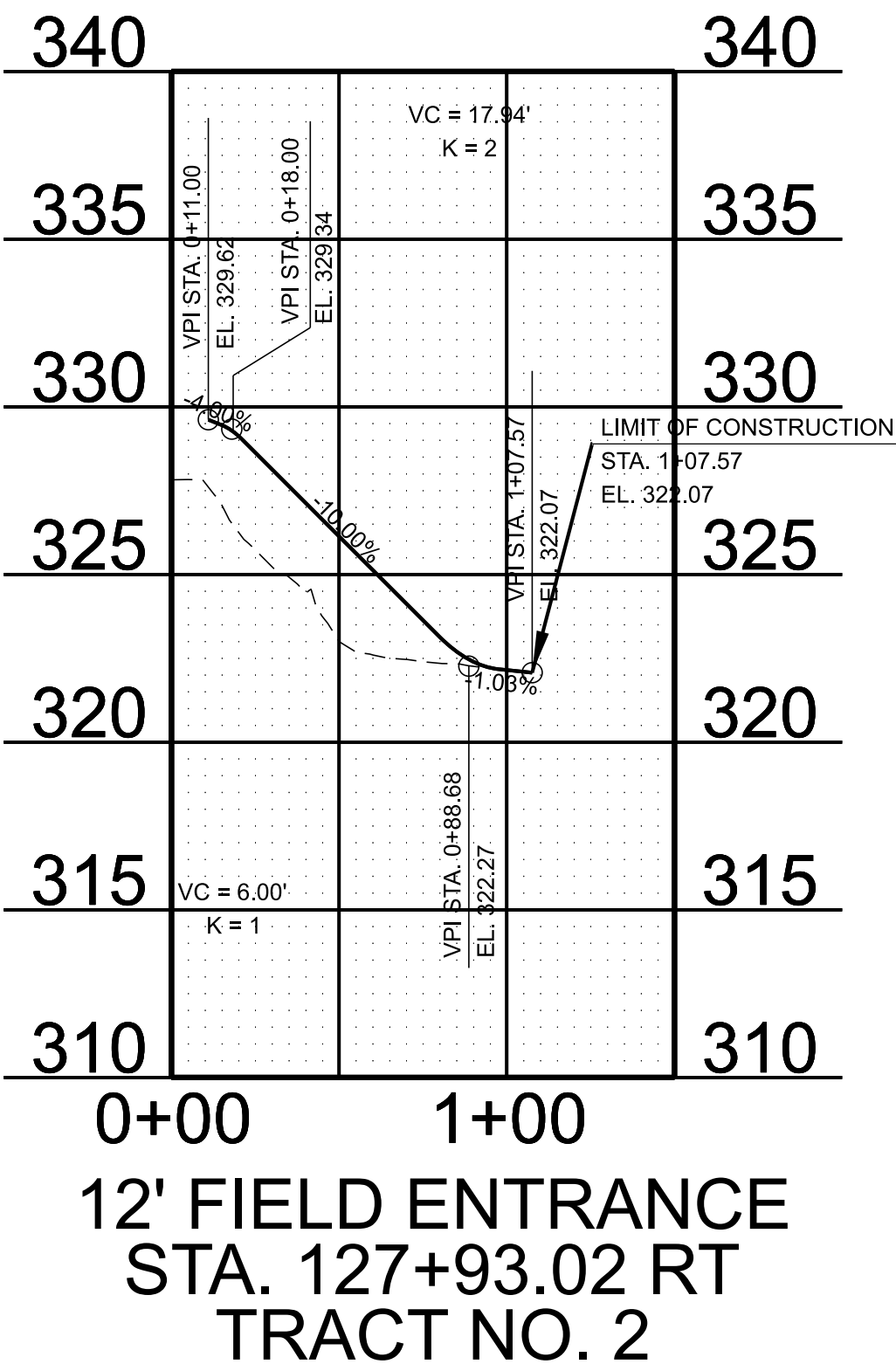
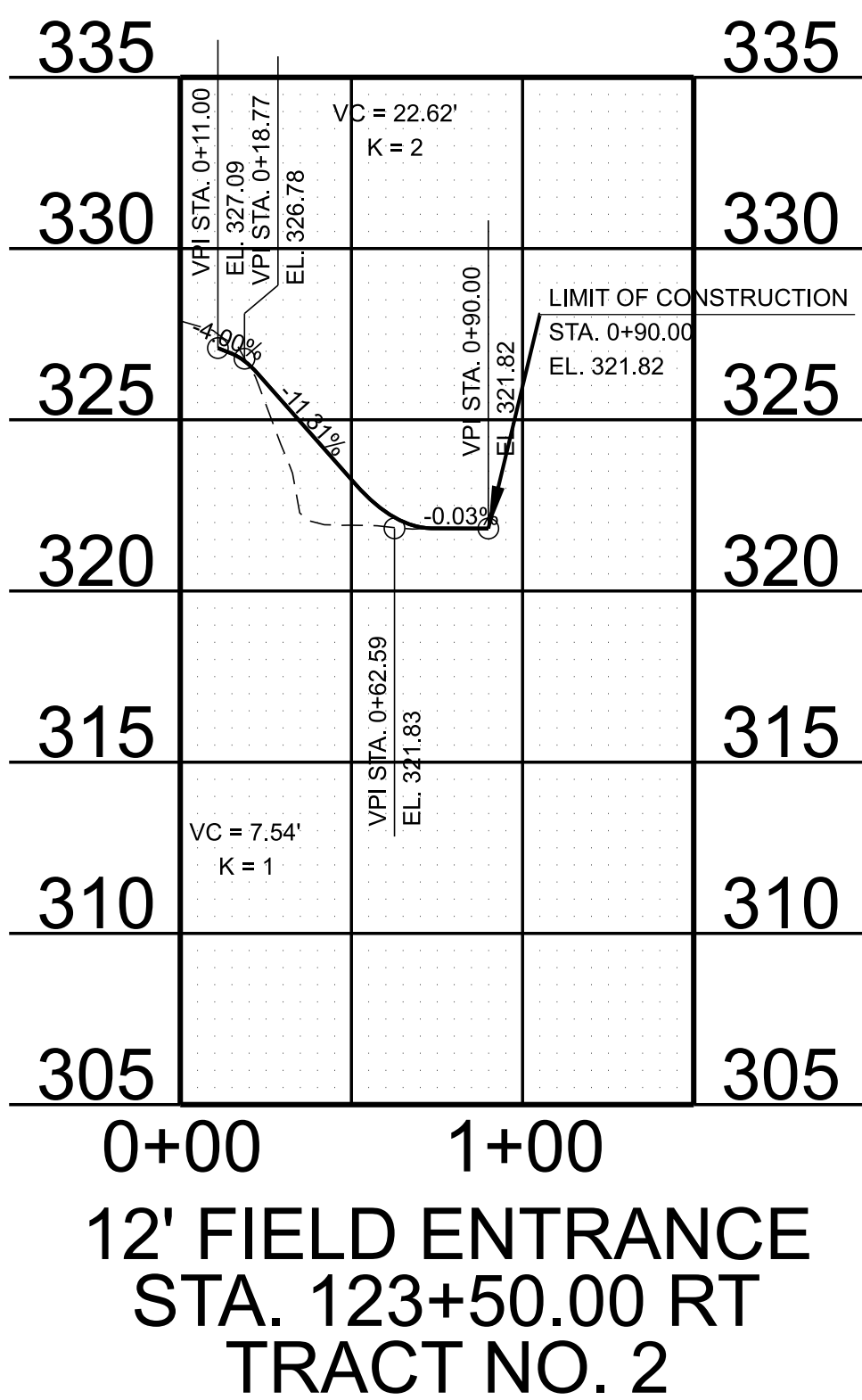
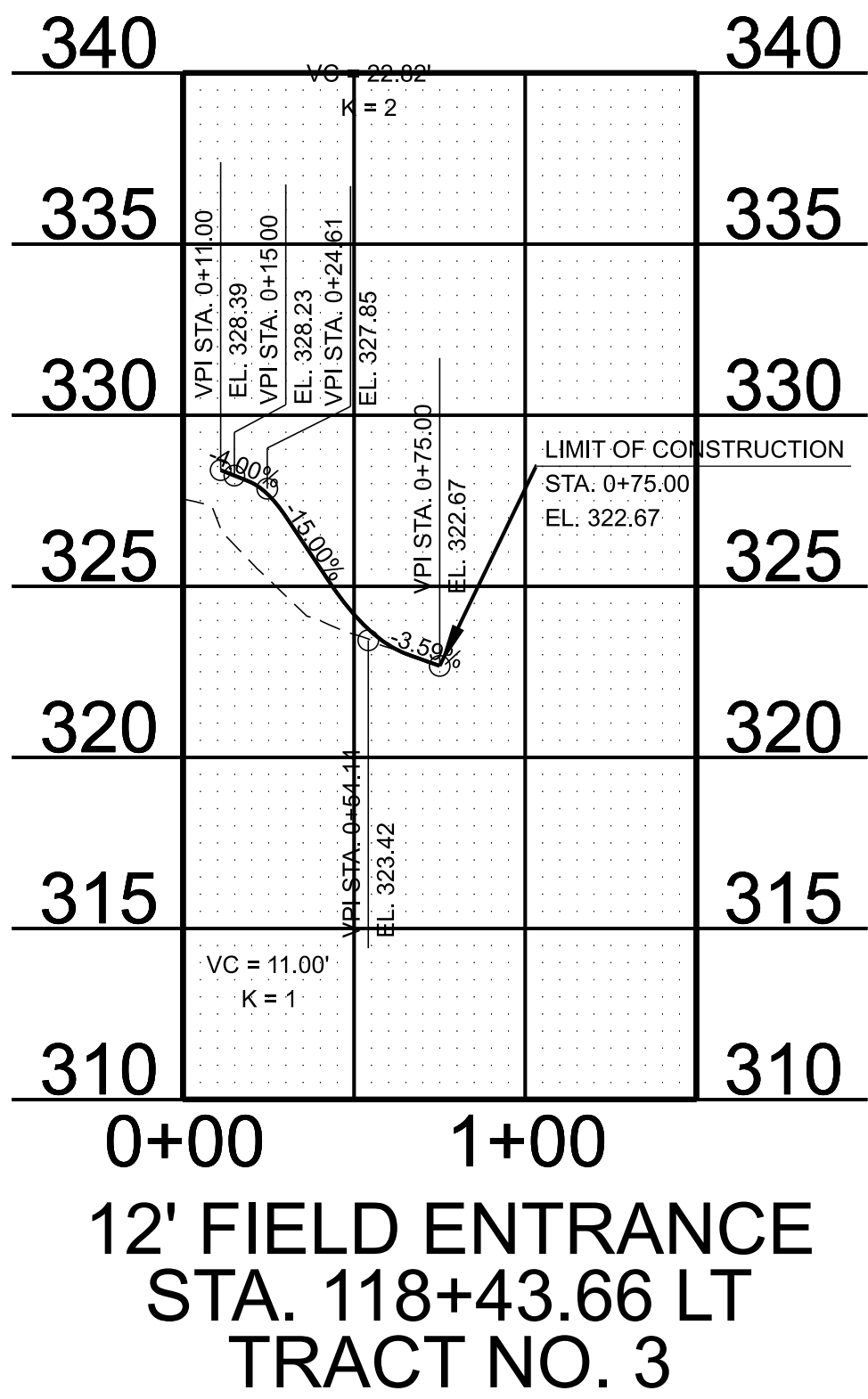
SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
PROFILE**

STA. 122+00.00 TO STA. 134+00.00

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

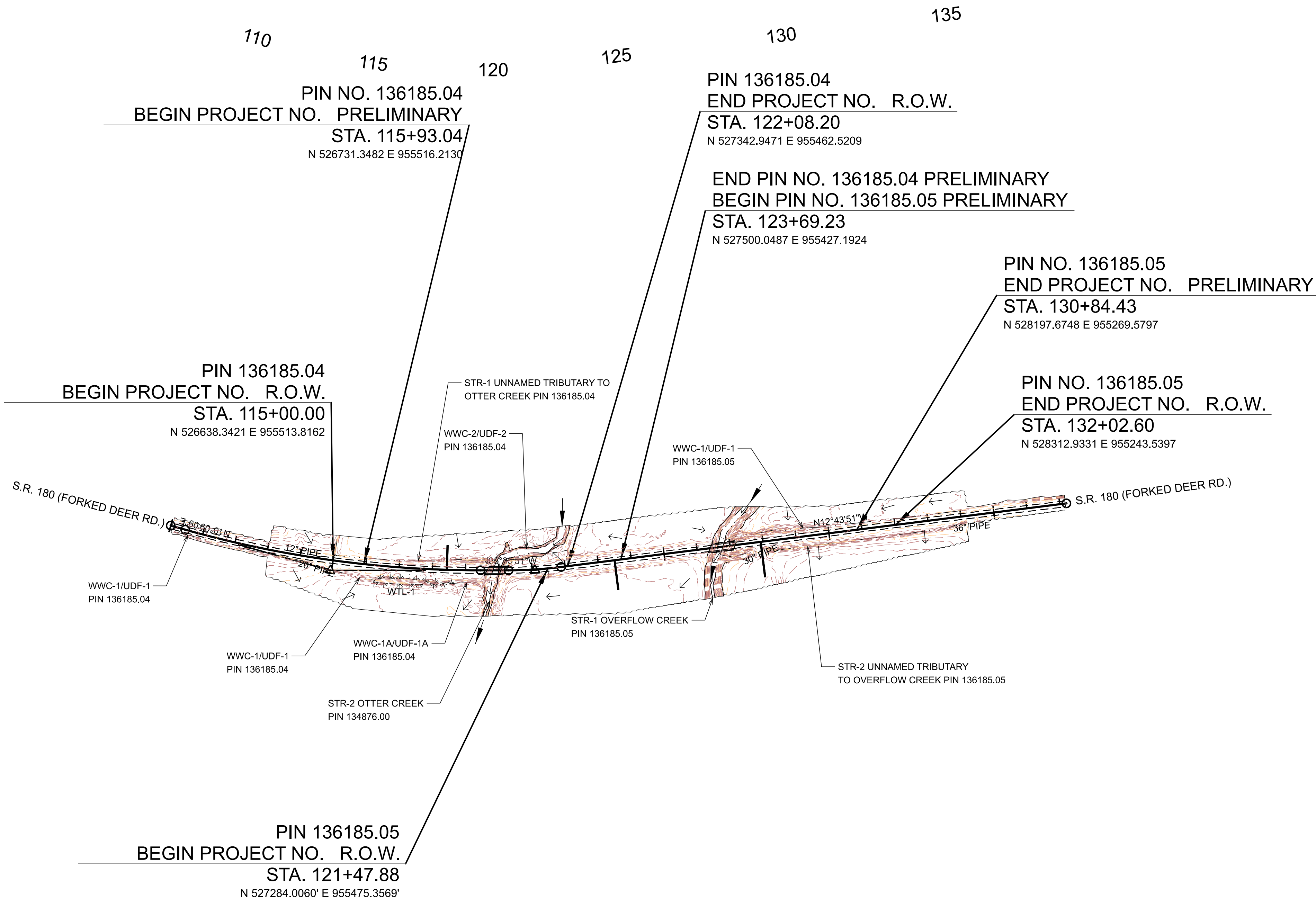
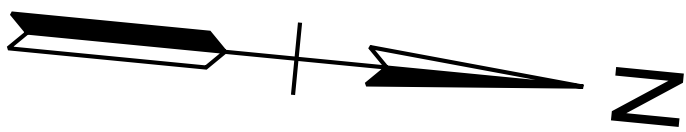


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	6

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE
SCALE: 1" = ' HORIZ. 1" = ' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	7



SEALED BY

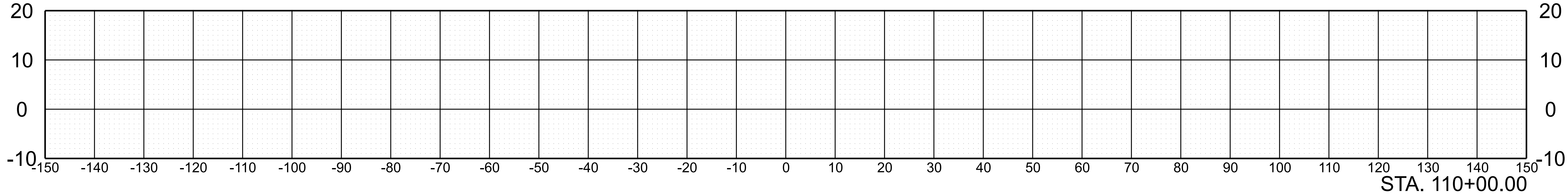
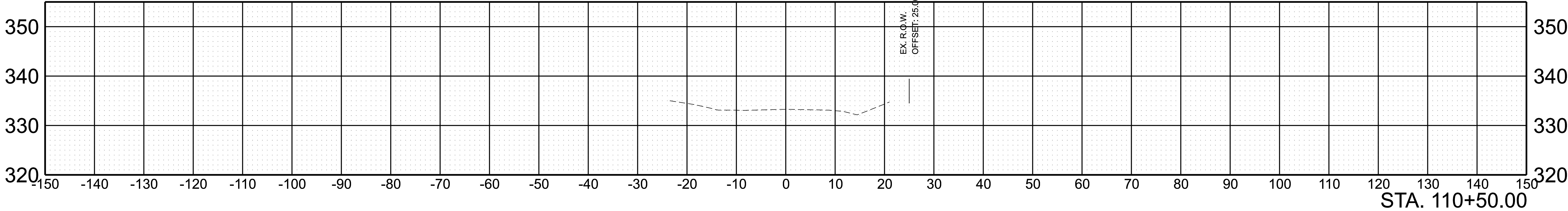
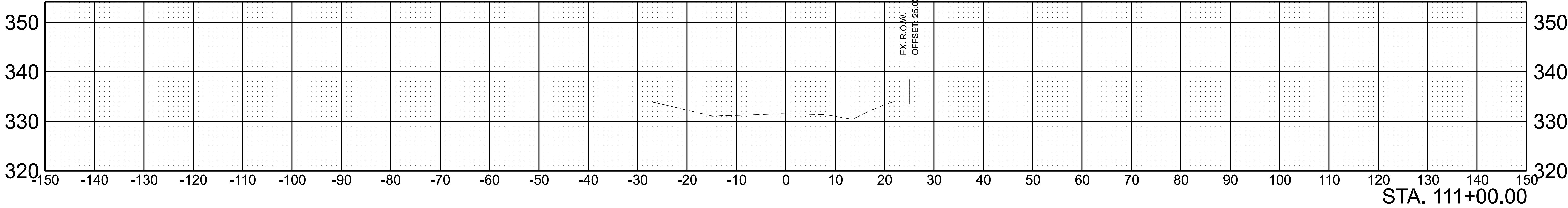
COORDINATES ARE NAD 83(), ARE DATUM ADJUSTED BY THE FACTOR OF AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

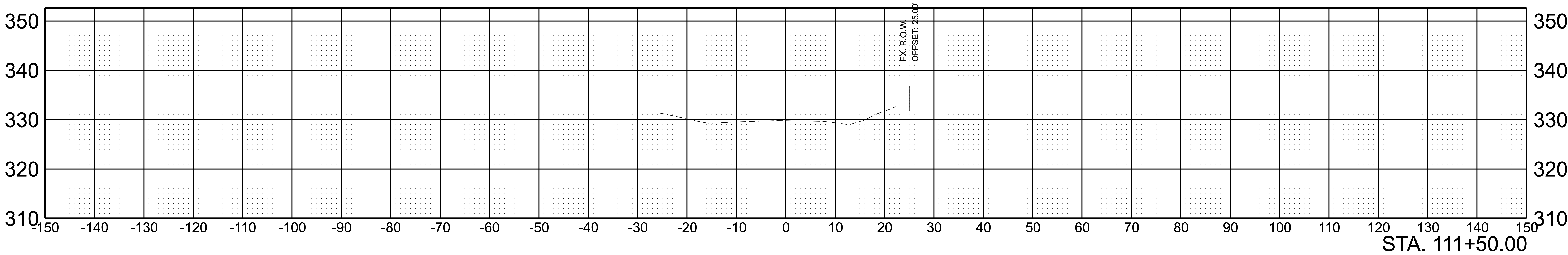
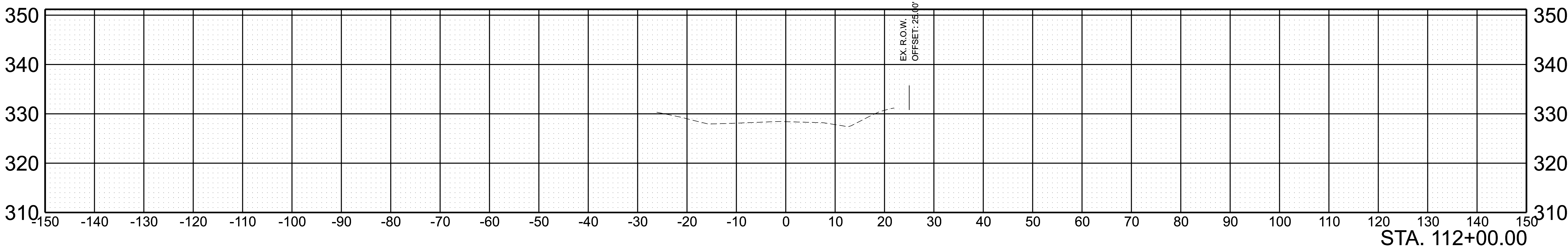
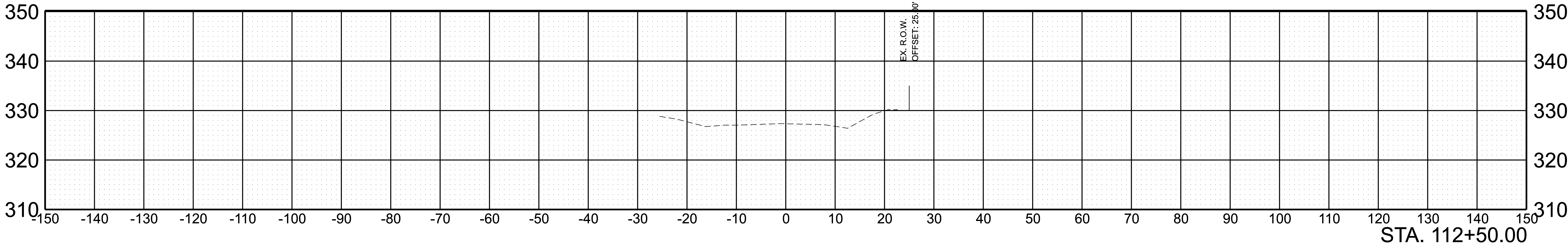
STA. 100+00.00 TO STA. 148+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	8



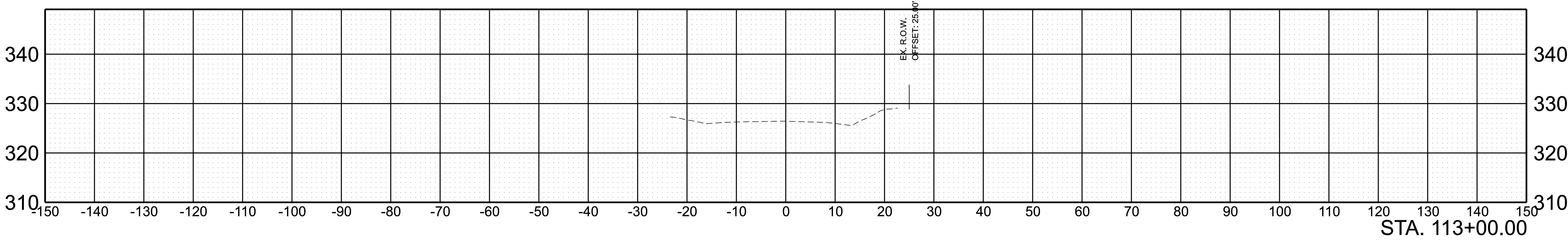
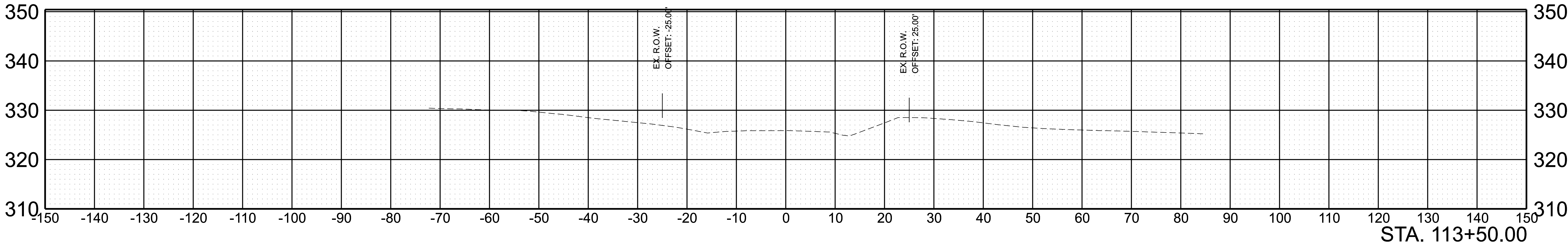
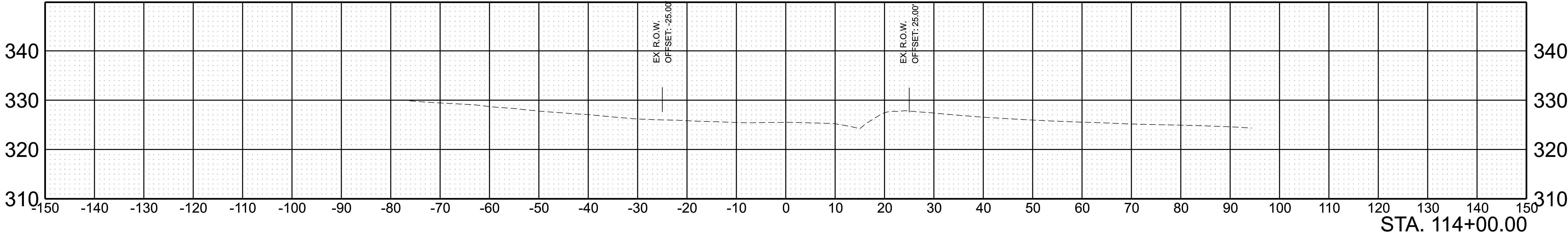
SCALE:	1"=10' HORIZ.	BEGIN STA. 110+00.00
	1"=10' VERT.	END STA. 111+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	9



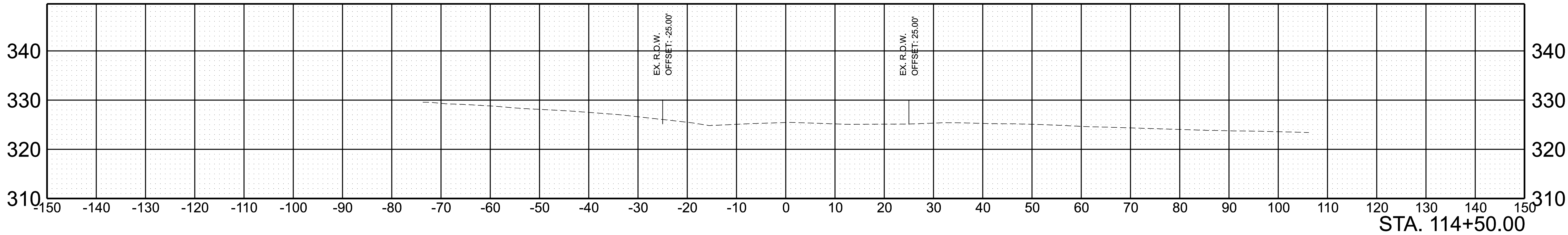
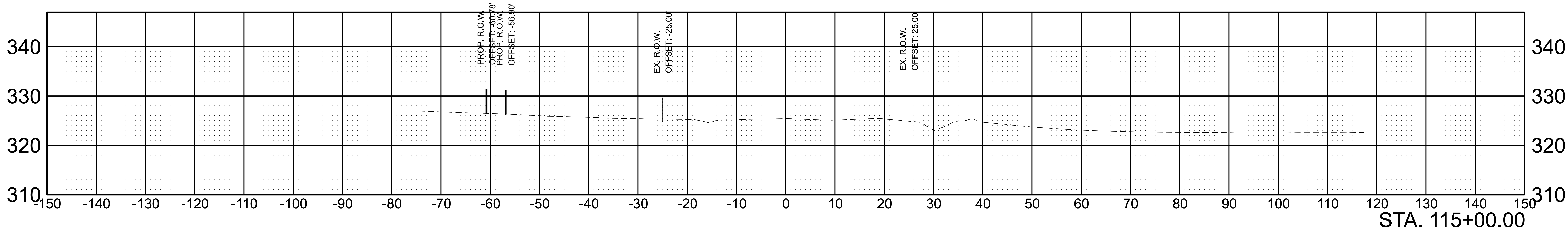
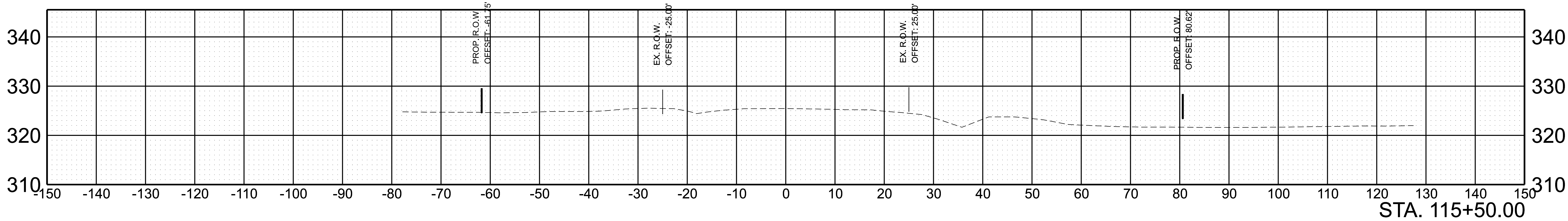
SCALE:	1"=10' HORIZ.	BEGIN STA. 111+50.00
	1"=10' VERT.	END STA. 112+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	10



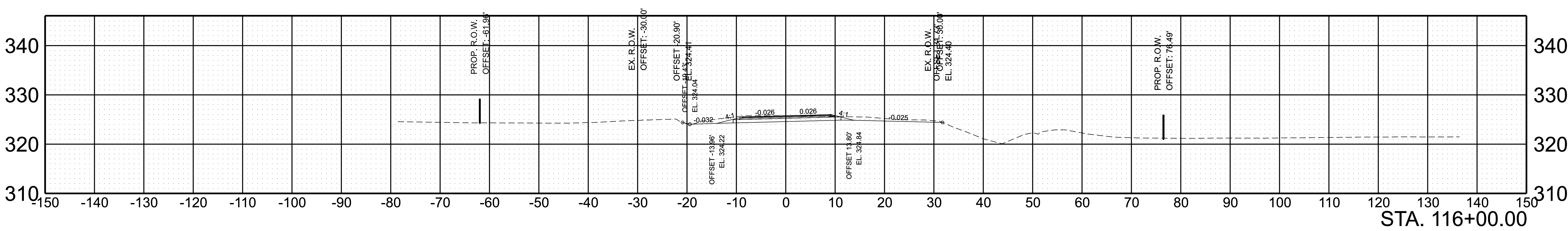
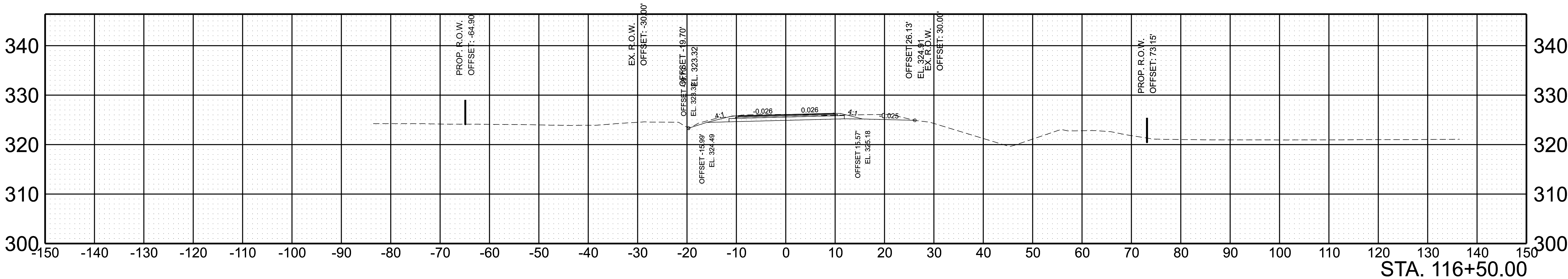
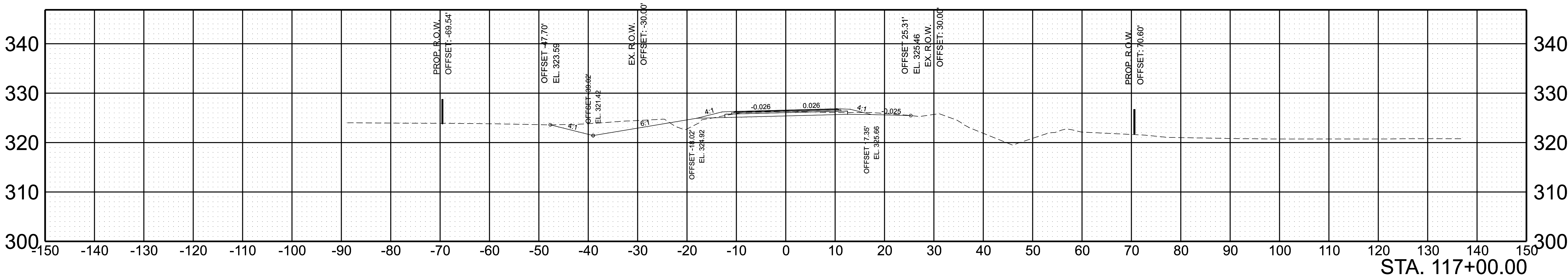
SCALE:	1"=10' HORIZ.	BEGIN STA. 113+00.00
	1"=10' VERT.	END STA. 114+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	11



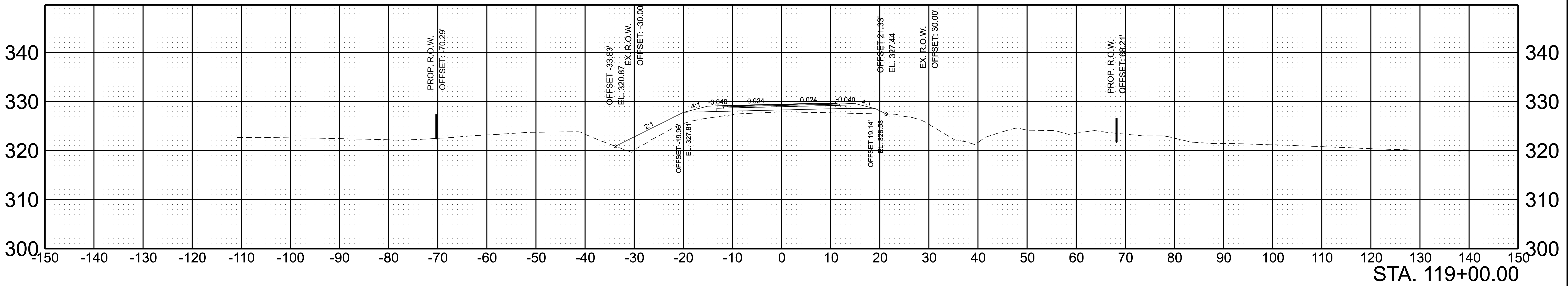
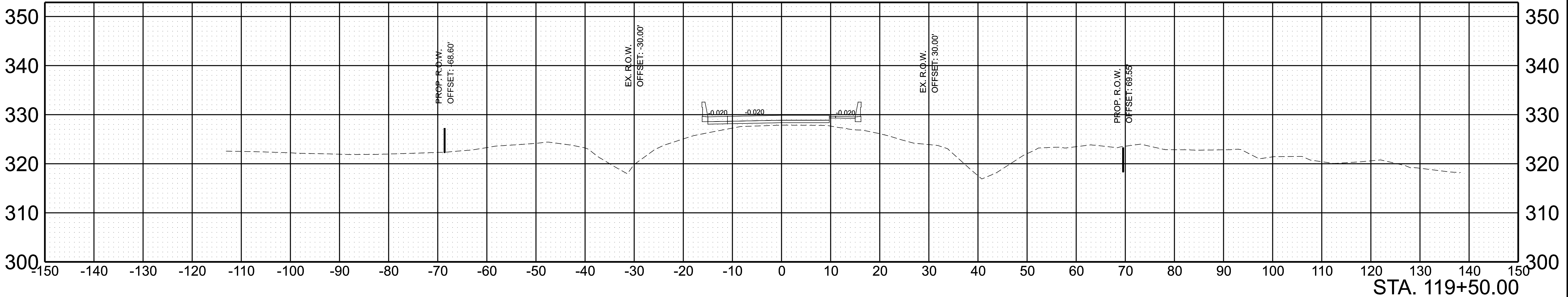
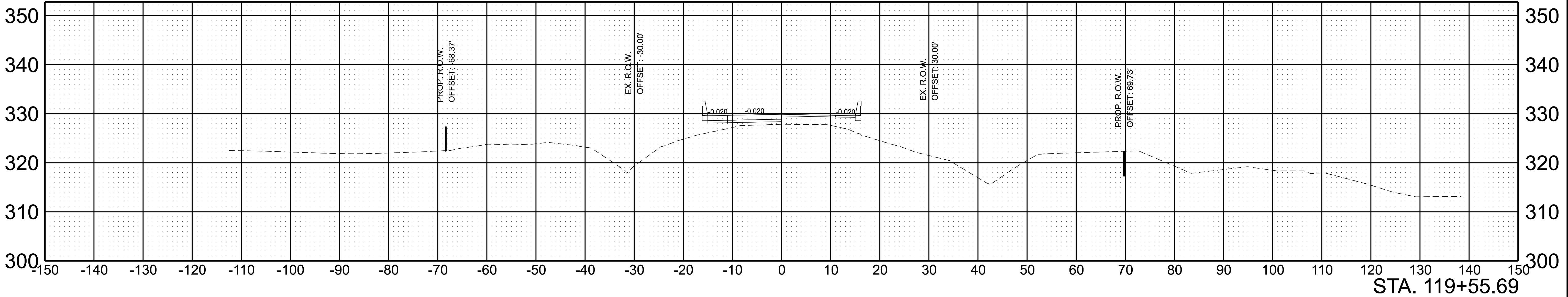
SCALE: 1"=10' HORIZ.	BEGIN STA. 114+50.00
1"=10' VERT.	END STA. 115+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	12



SCALE:	1"=10' HORIZ.	BEGIN STA. 116+00.00
	1"=10' VERT.	END STA. 117+00.00

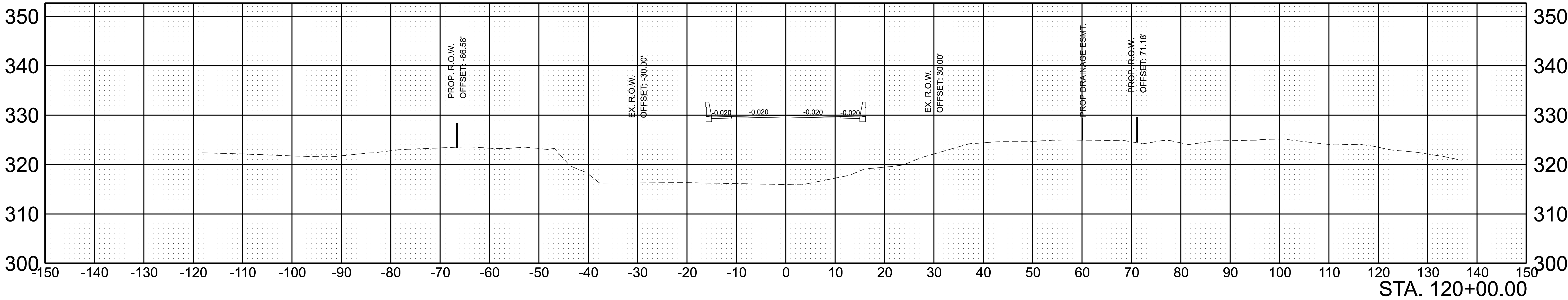
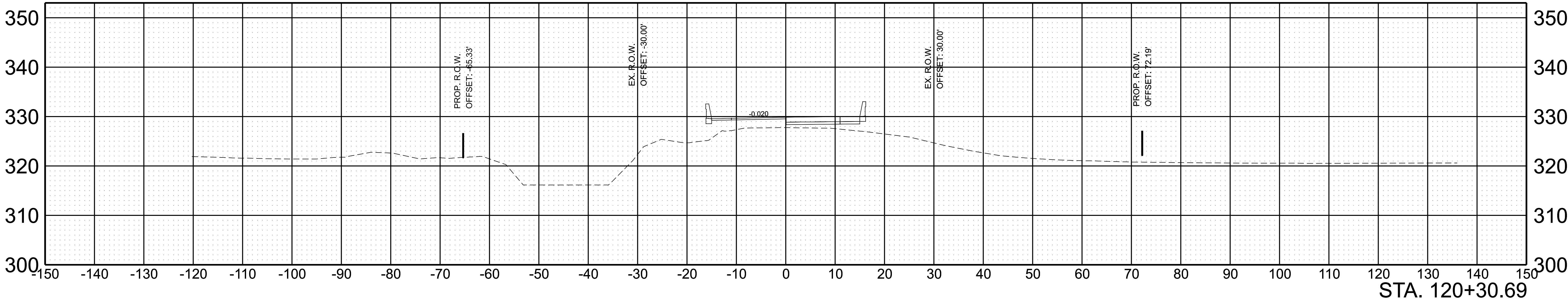
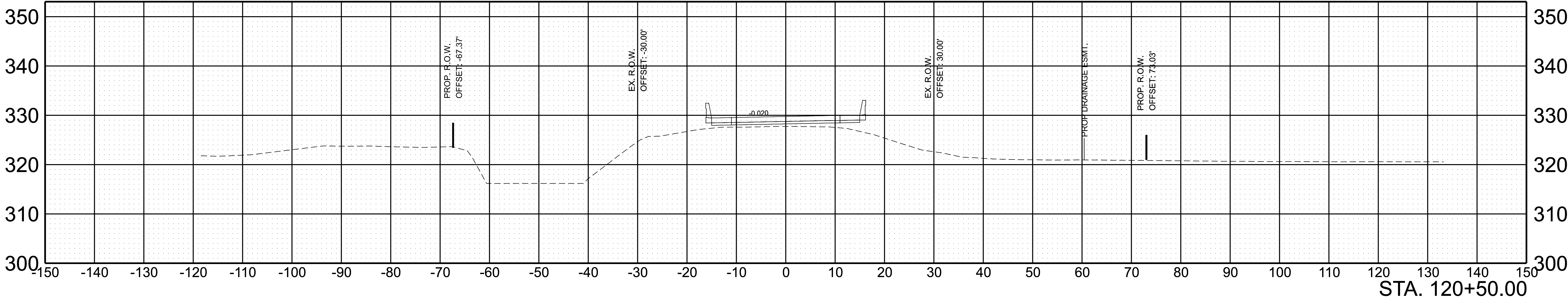
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	14



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

BEGIN STA. 119+00.00
END STA. 119+55.69

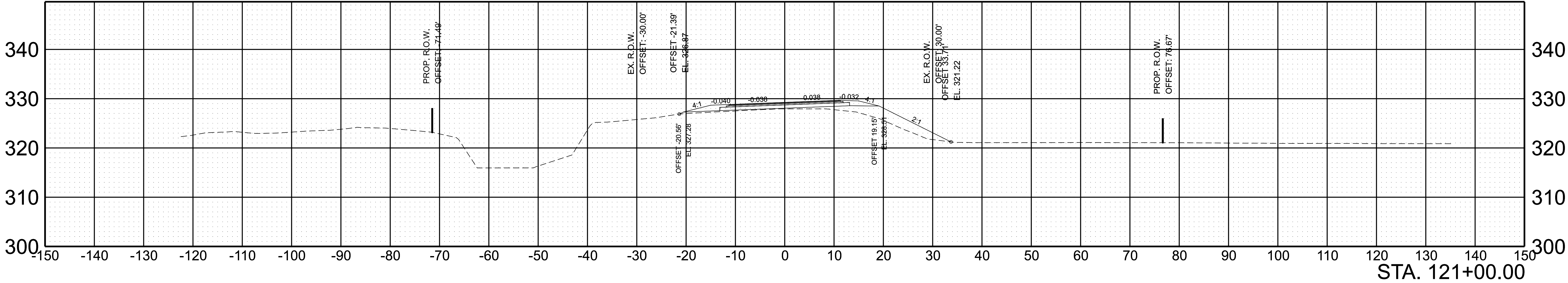
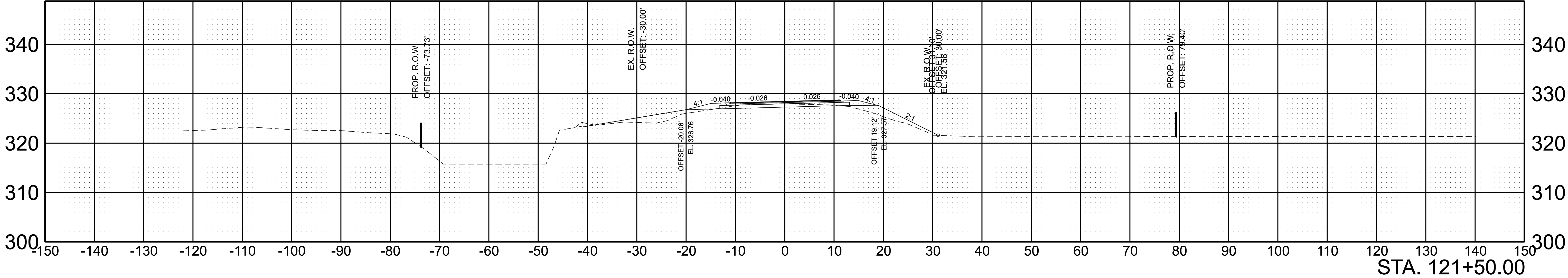
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	15



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

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

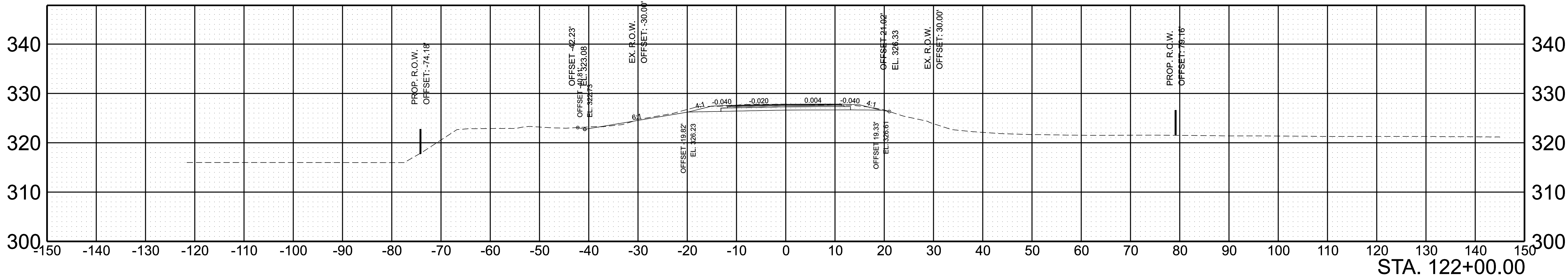
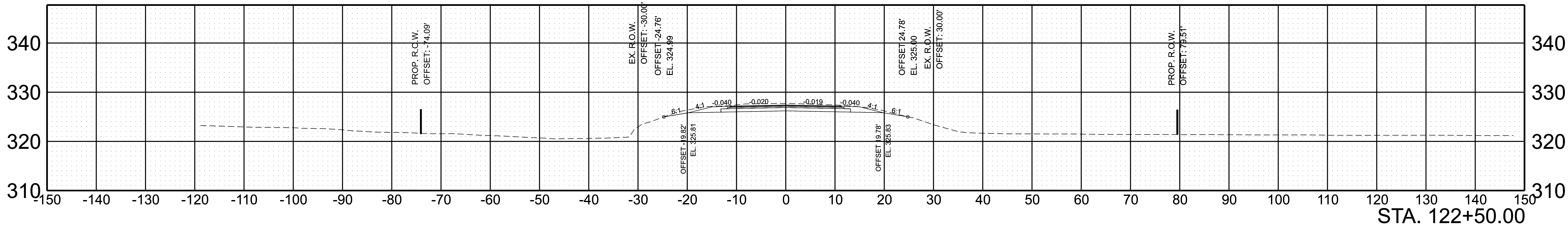
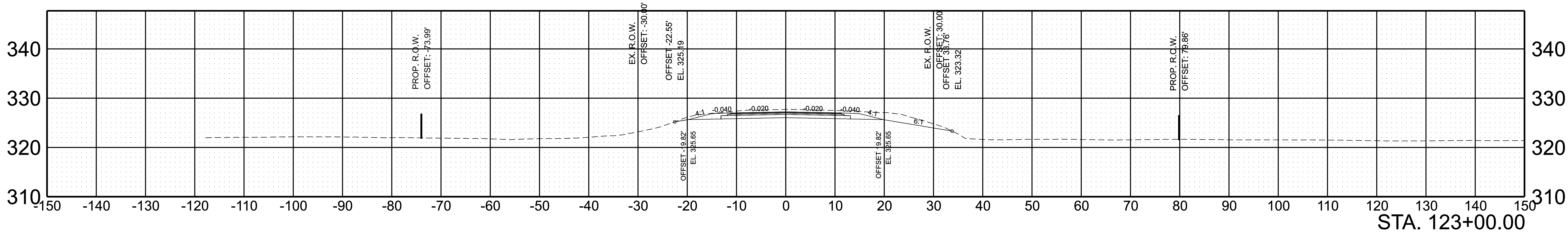
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	16



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

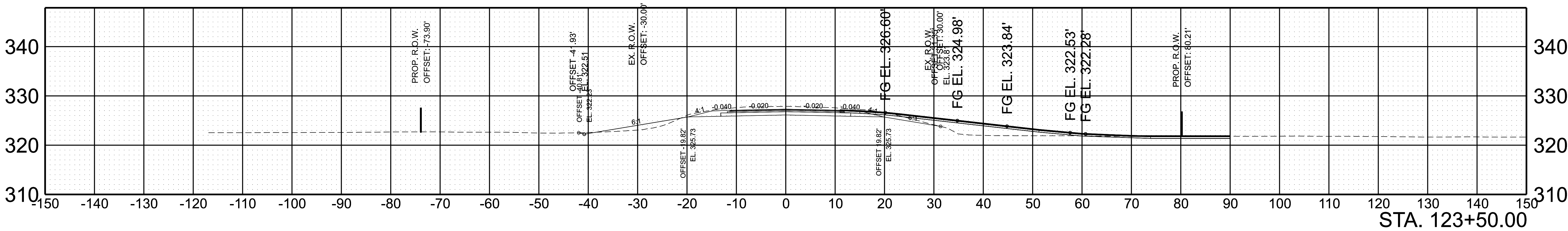
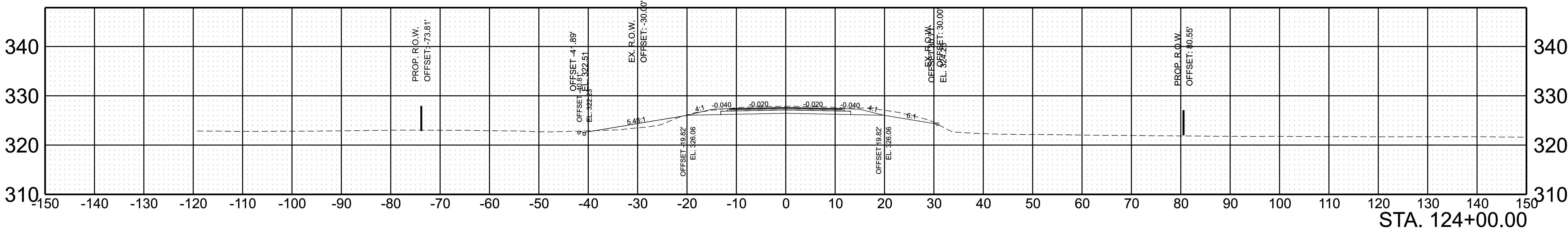
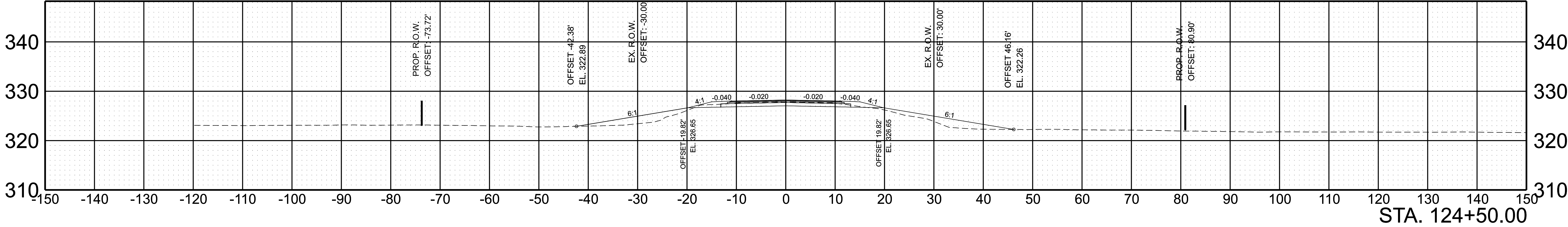
BEGIN STA. 121+00.00
END STA. 121+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	17



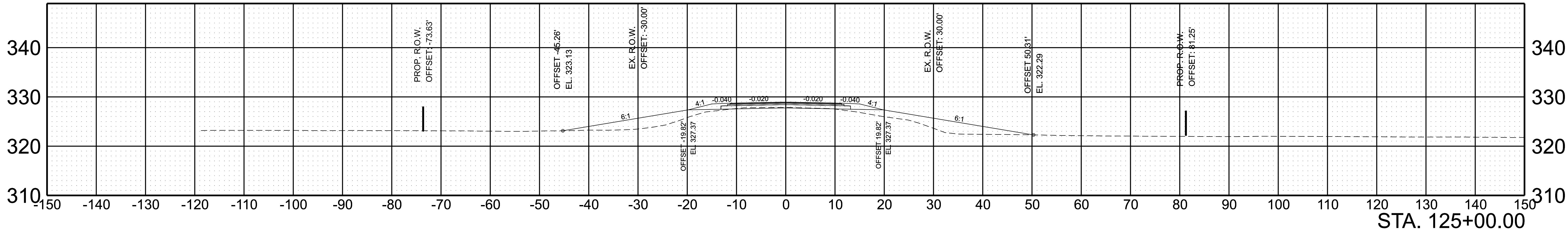
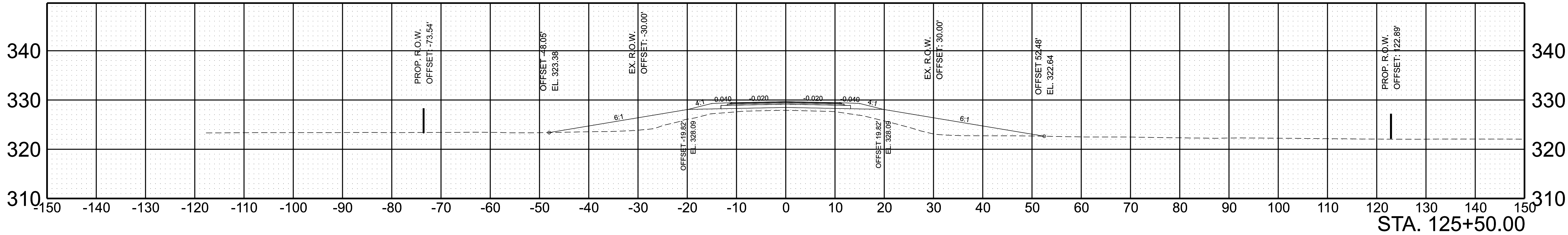
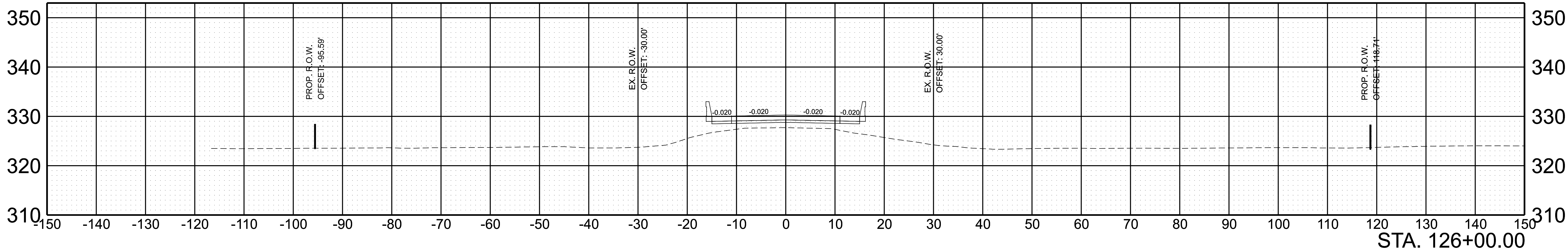
SCALE:	1"=10' HORIZ.	BEGIN STA. 122+00.00
	1"=10' VERT.	END STA. 123+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	18



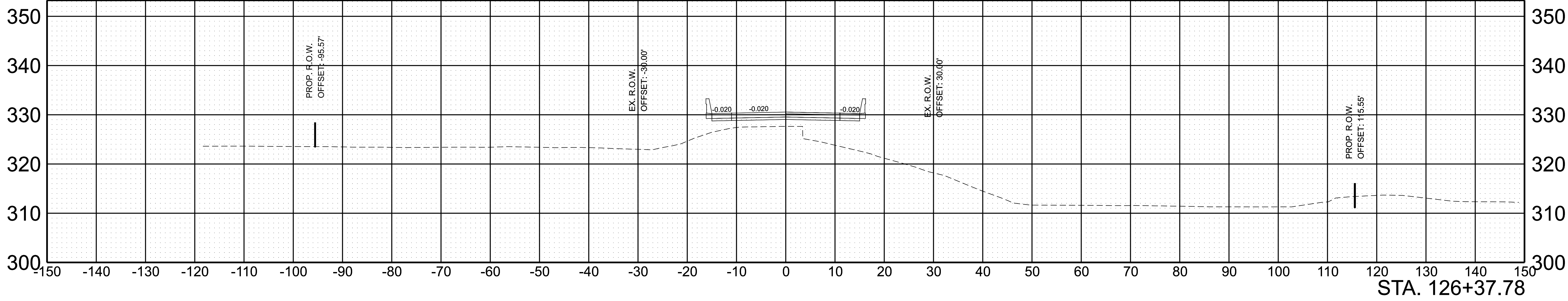
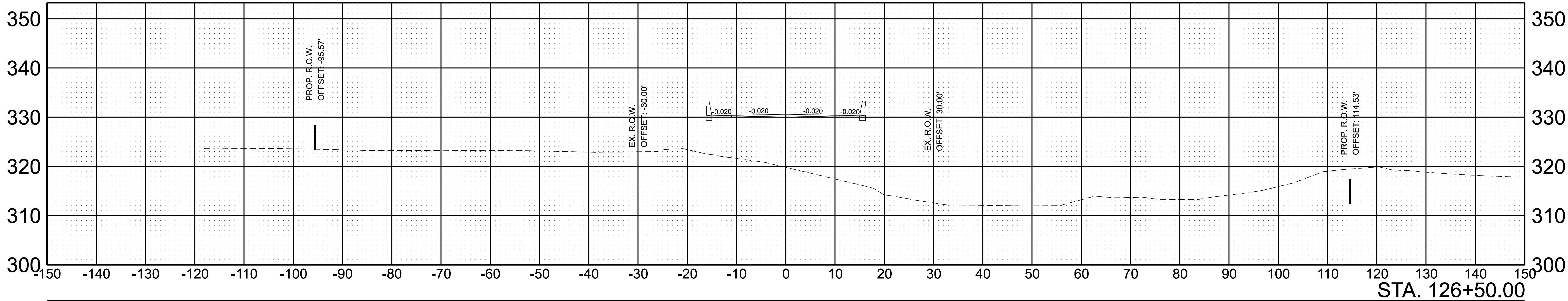
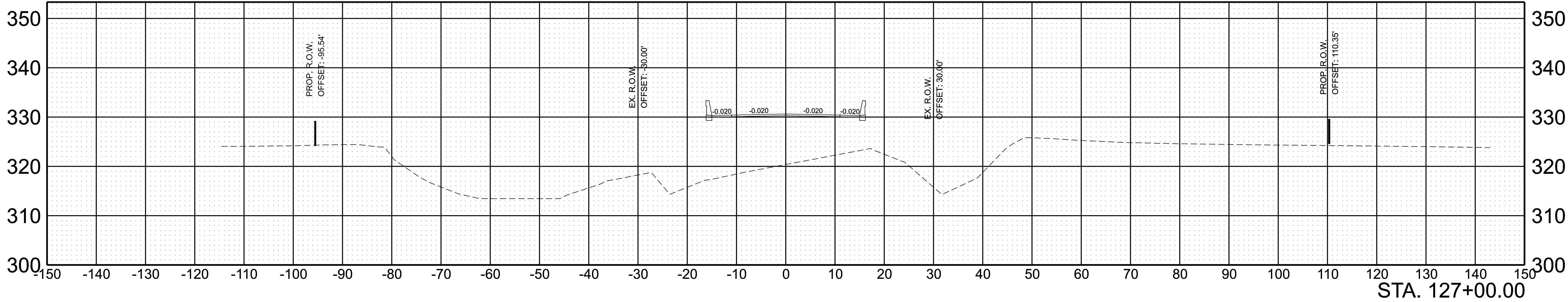
SCALE:	1"=10' HORIZ.	BEGIN STA. 123+50.00
	1"=10' VERT.	END STA. 124+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	19



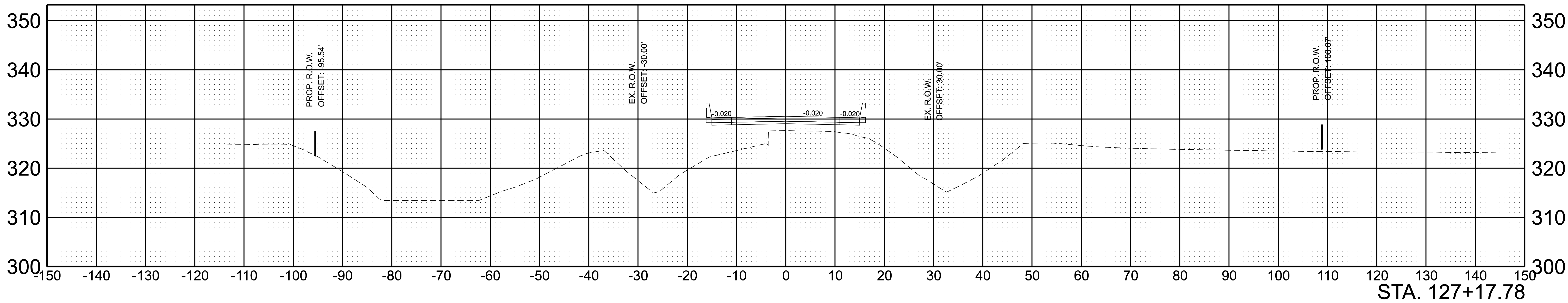
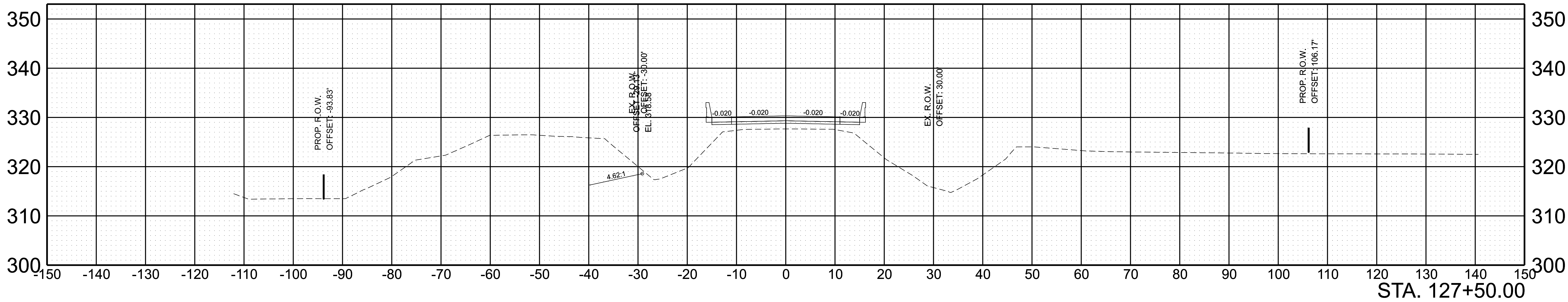
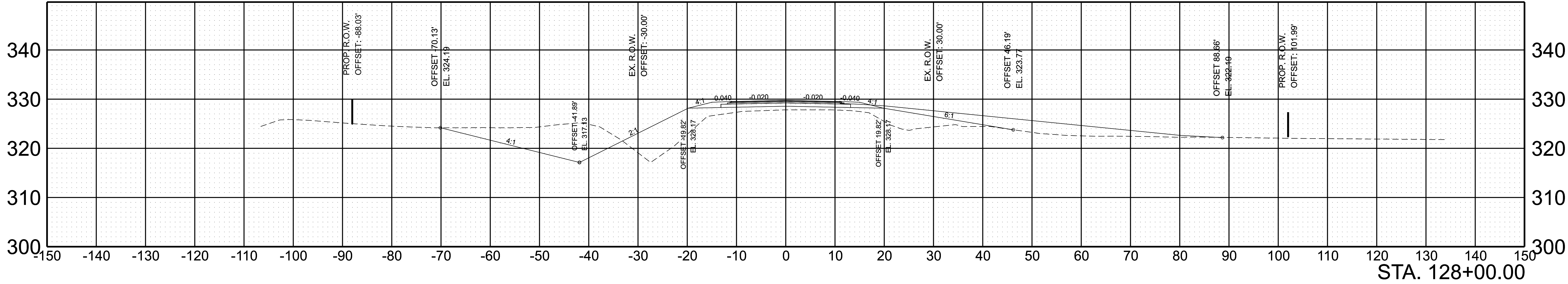
SCALE:	1"=10' HORIZ.	BEGIN STA. 125+00.00
	1"=10' VERT.	END STA. 126+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	20



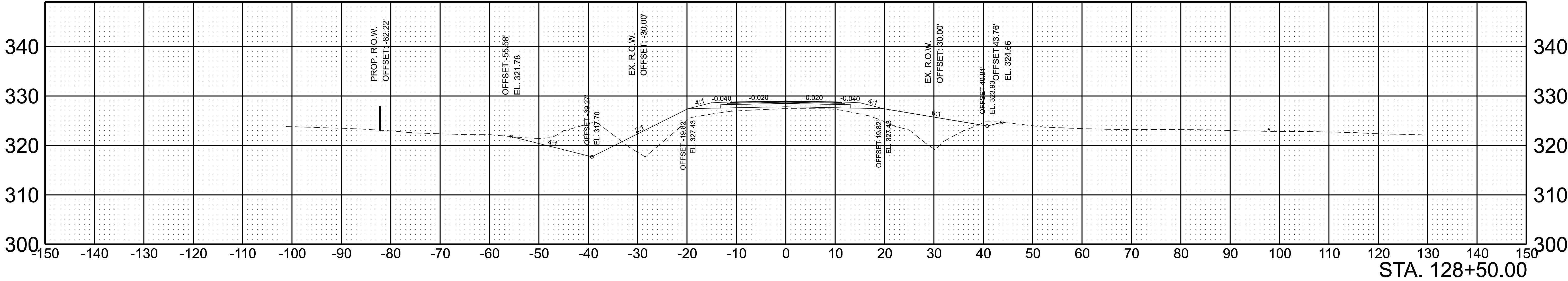
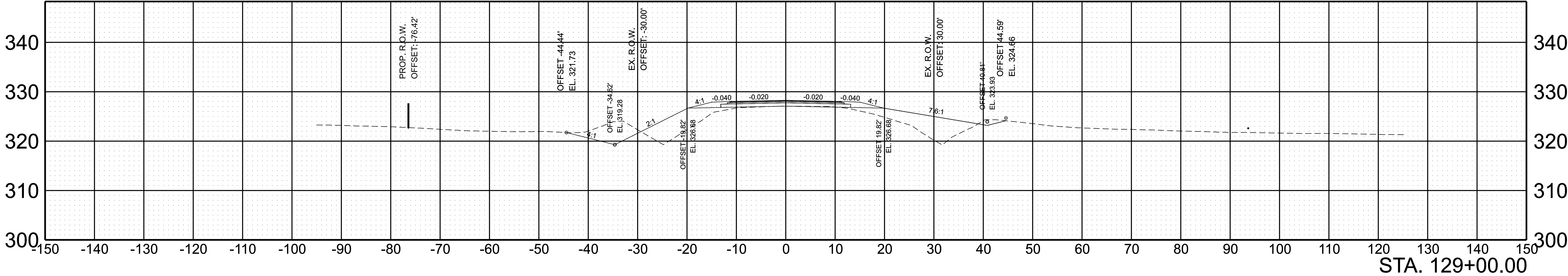
SCALE:	1"=10' HORIZ.	BEGIN STA. 126+37.78
	1"=10' VERT.	END STA. 127+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	21



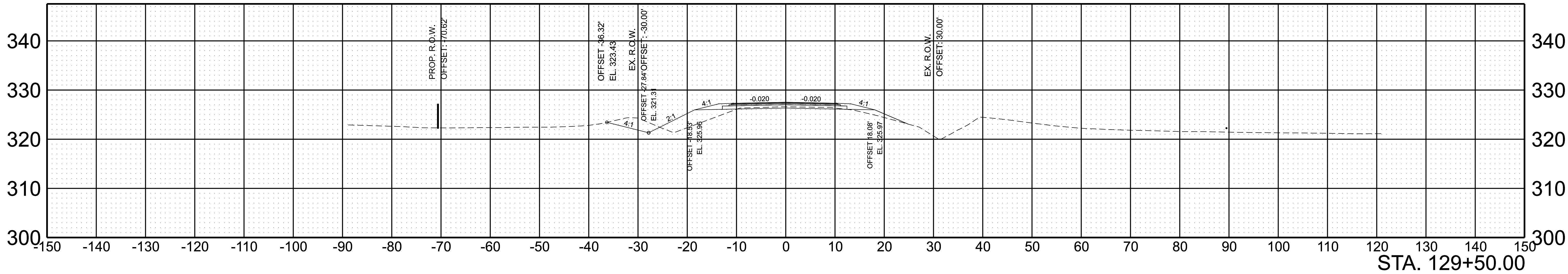
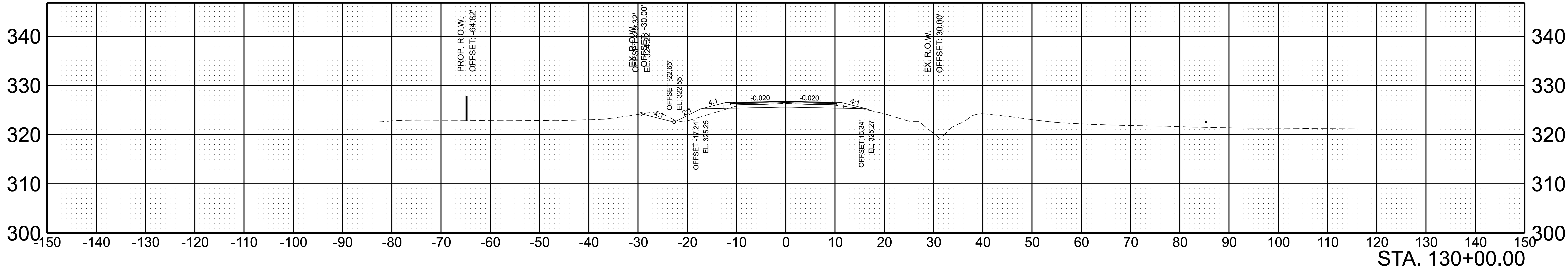
SCALE:	1"=10' HORIZ.	BEGIN STA. 127+17.78
	1"=10' VERT.	END STA. 128+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	22



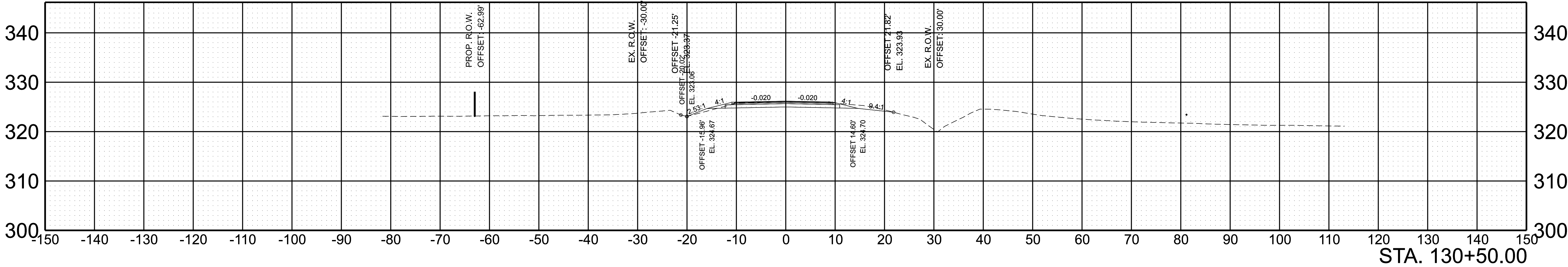
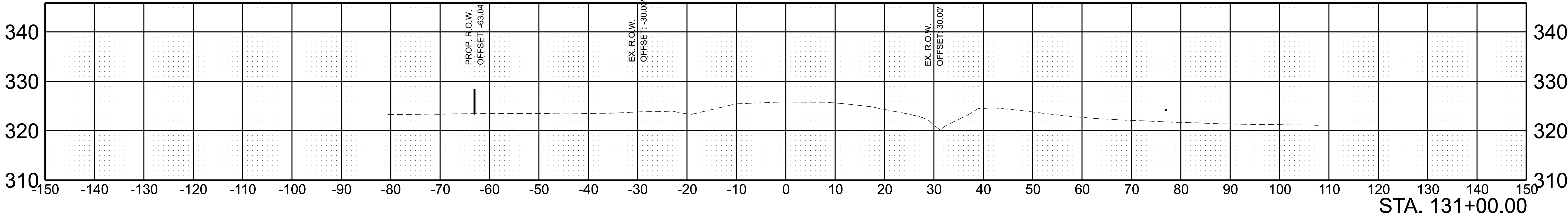
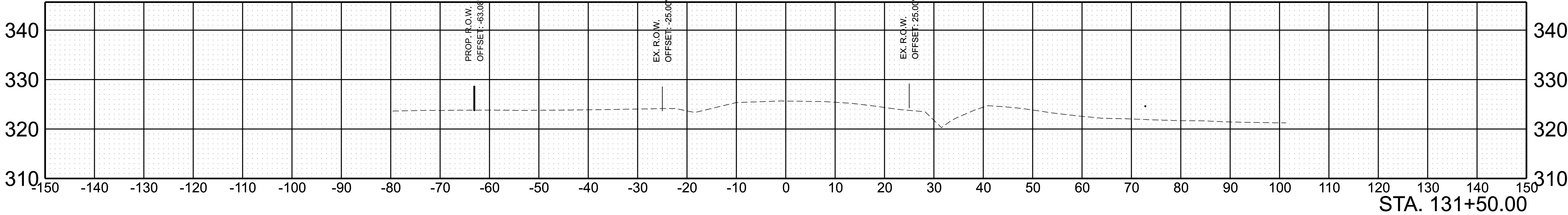
SCALE: 1"=10' HORIZ.	BEGIN STA. 128+50.00
1"=10' VERT.	END STA. 129+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	23



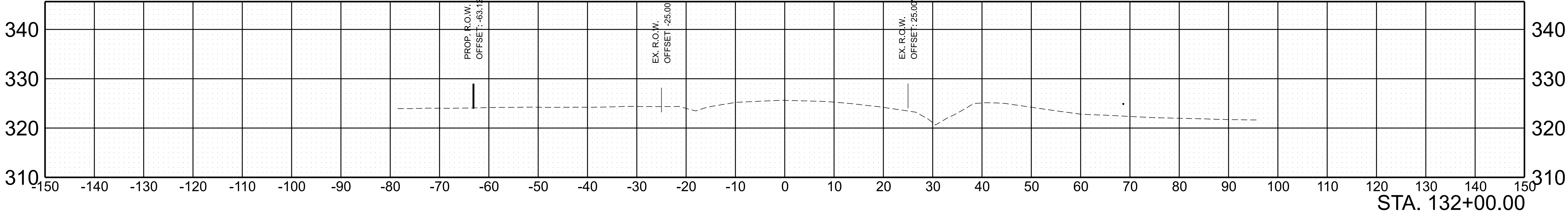
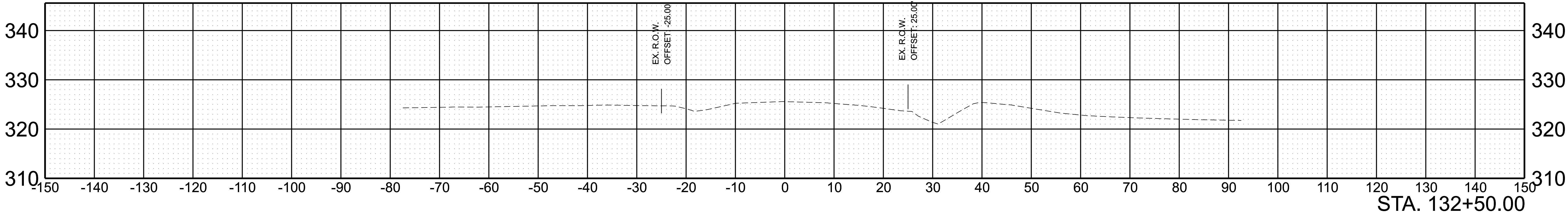
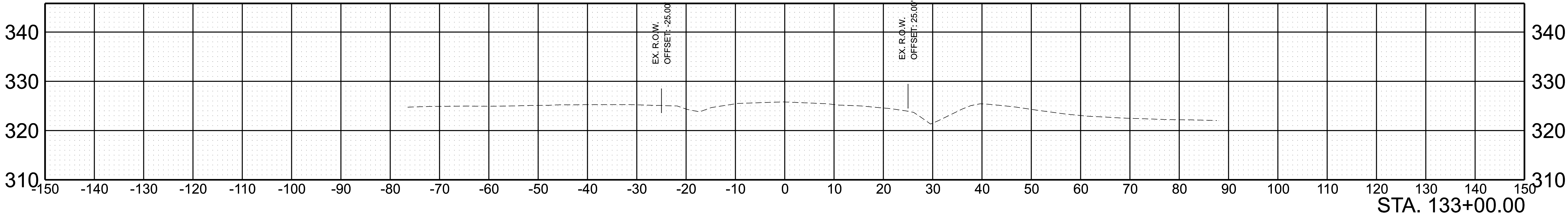
SCALE:	1"=10' HORIZ.	BEGIN STA. 129+50.00
	1"=10' VERT.	END STA. 130+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	24



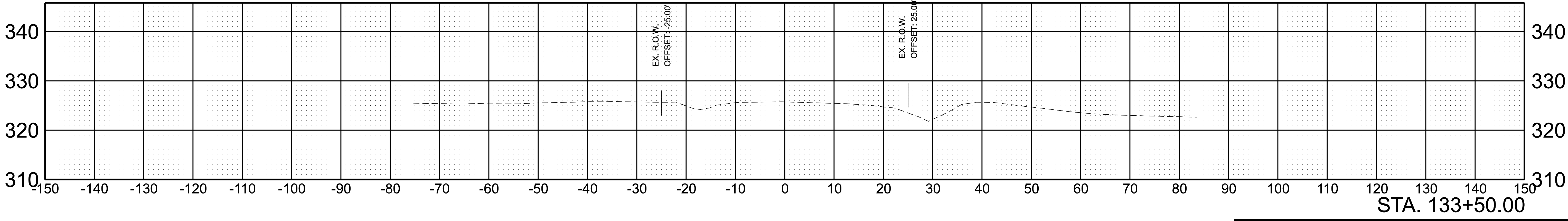
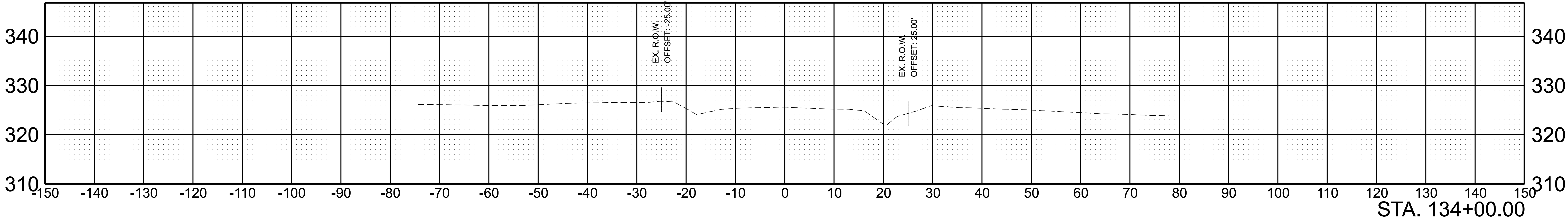
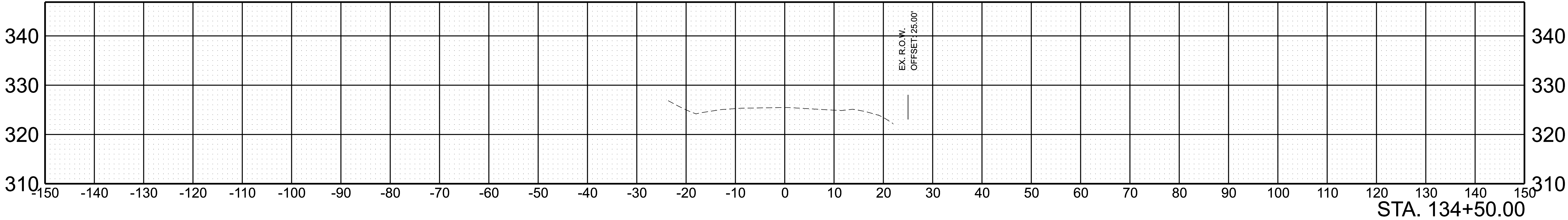
SCALE: 1"=10' HORIZ.	BEGIN STA. 130+50.00
1"=10' VERT.	END STA. 131+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	25



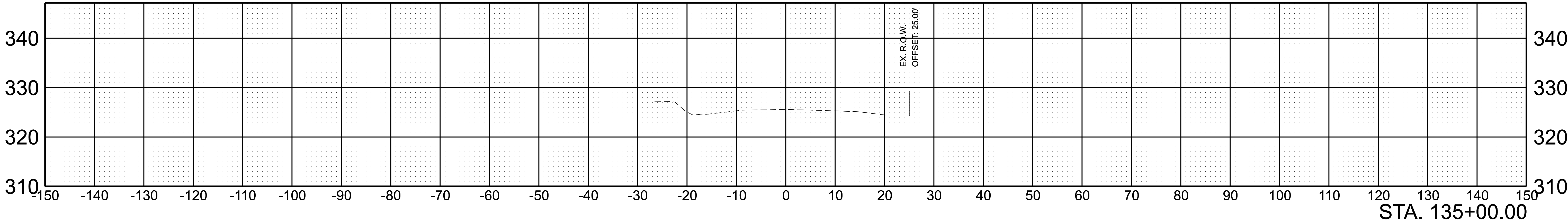
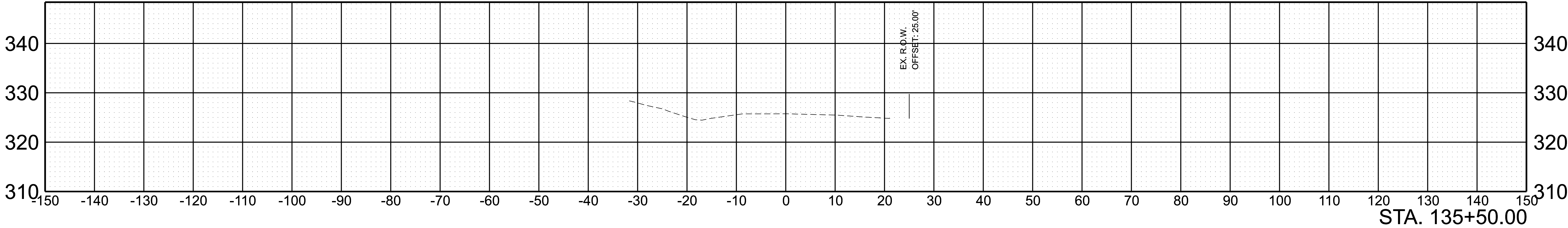
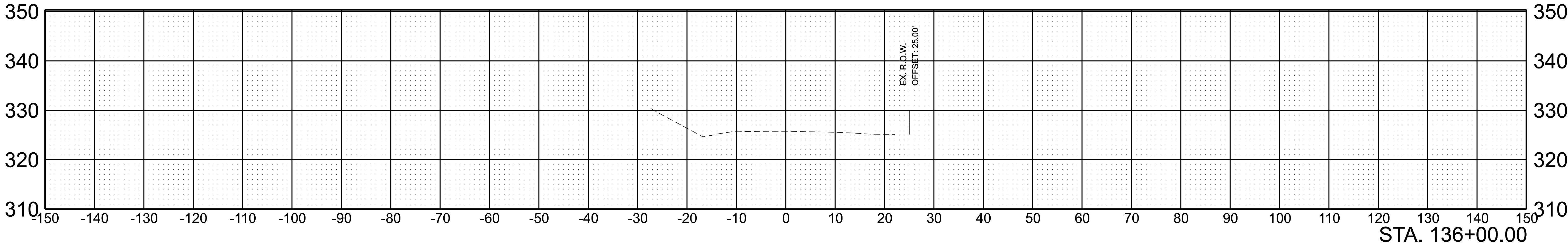
SCALE:	1"=10' HORIZ.	BEGIN STA. 132+00.00
	1"=10' VERT.	END STA. 133+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	26



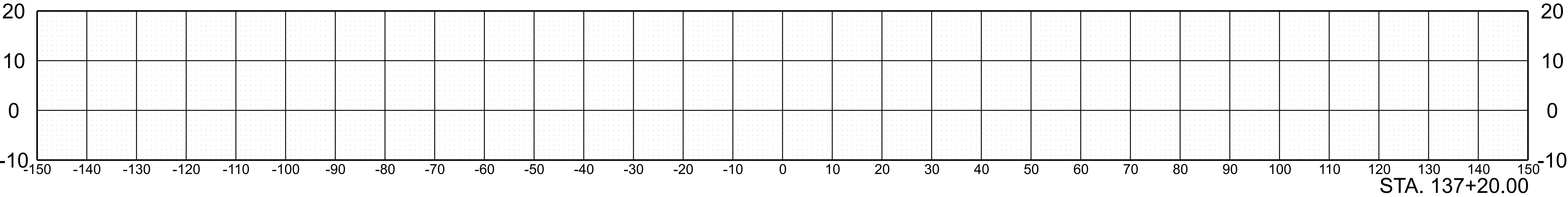
SCALE:	1"=10' HORIZ.	BEGIN STA. 133+50.00
	1"=10' VERT.	END STA. 134+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	27

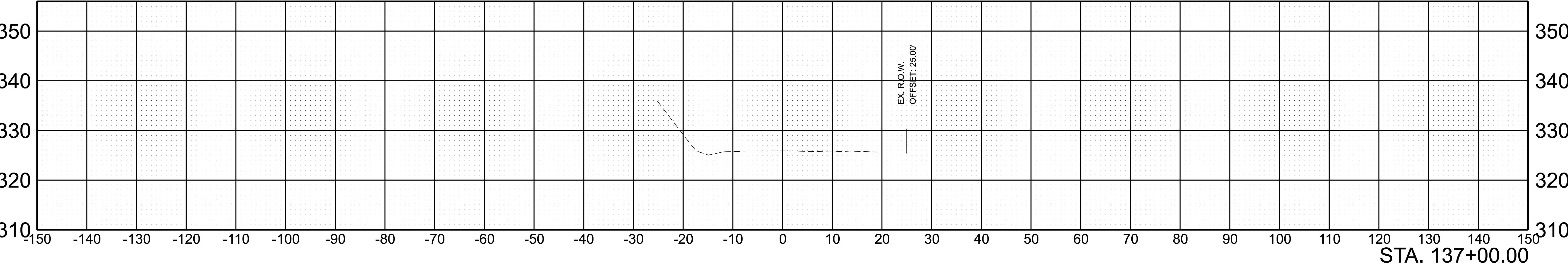


SCALE:	1"=10' HORIZ.	BEGIN STA. 135+00.00
	1"=10' VERT.	END STA. 136+00.00

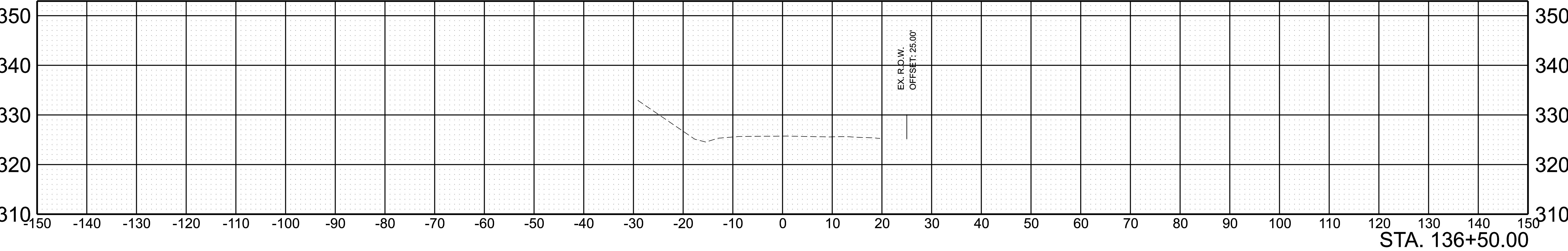
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025	R4SVAR-S1-049	28



STA. 137+20.00



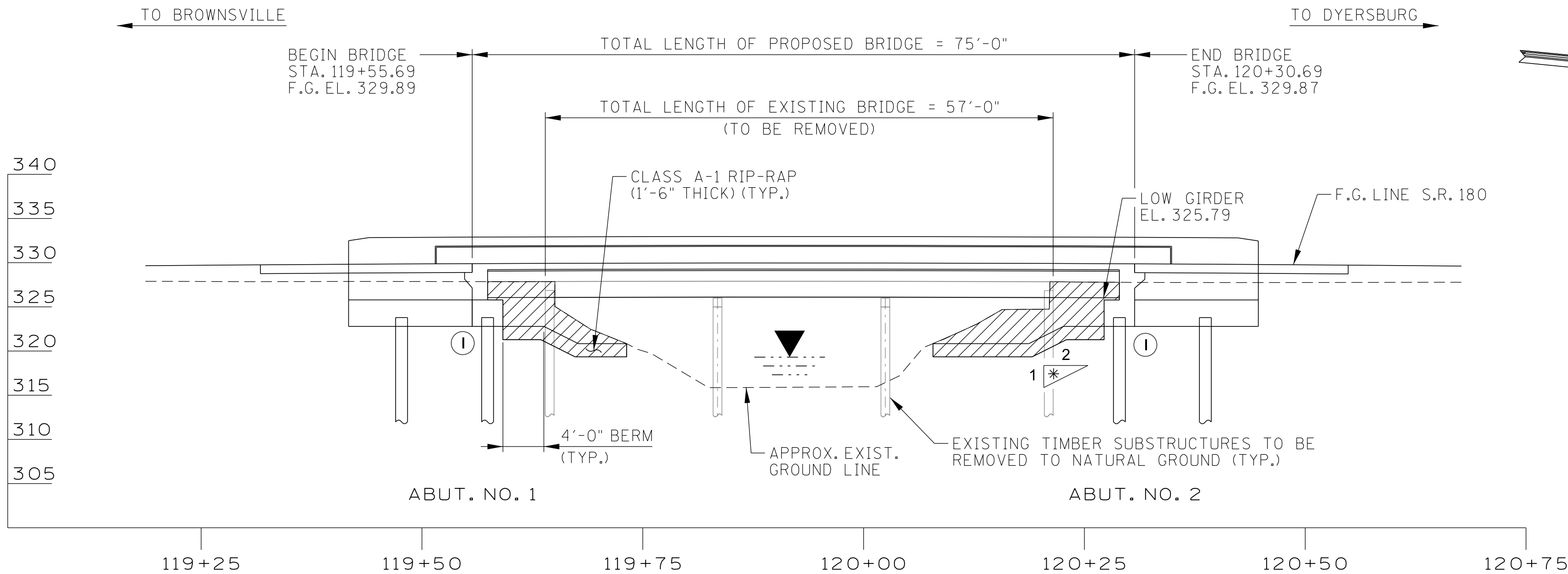
STA. 137+00.00



STA. 136+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 136+50.00
	1"=10' VERT.	END STA. 137+20.00

CONST. NO.:			
PROJECT NO.		YEAR	SHEET NO.
- -		2025	B-1
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
- -			
- -			
- -			
- -			
- -			

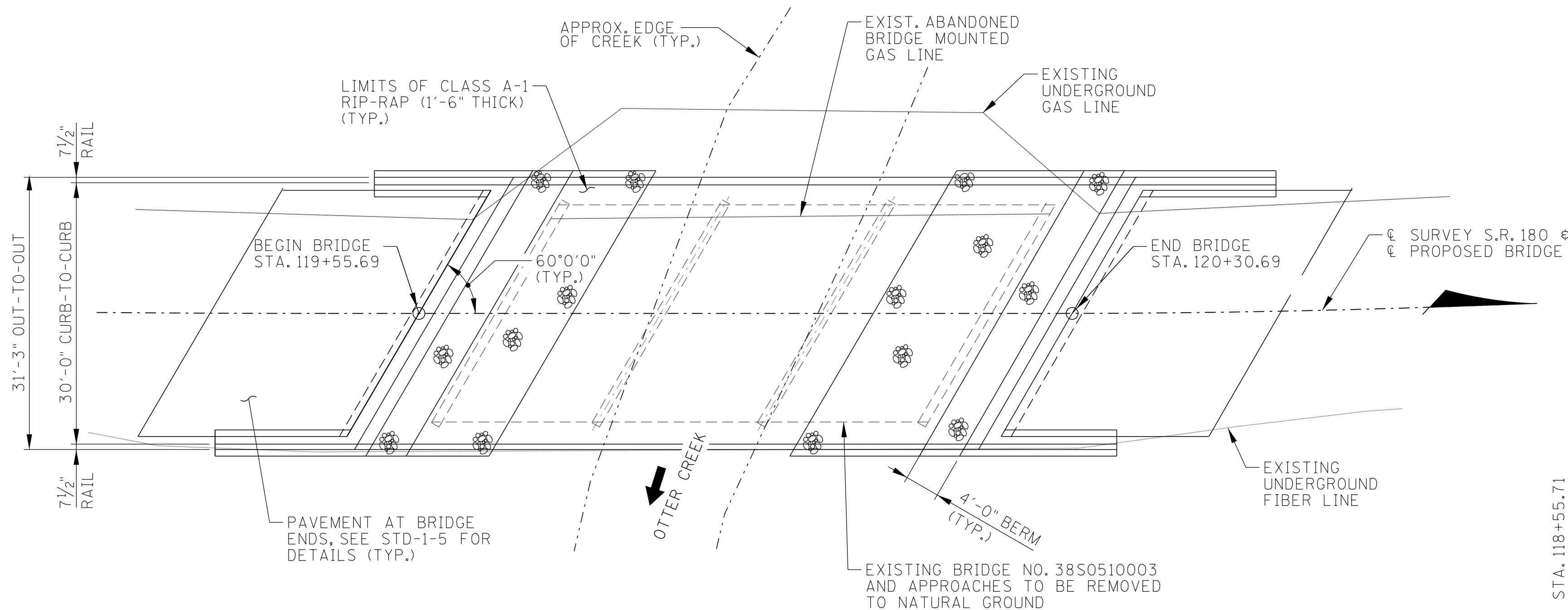


① DENOTES: INTEGRAL

▨ DENOTES: AREA TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM

ELEVATION

* DENOTES: NORMAL TO SKEW

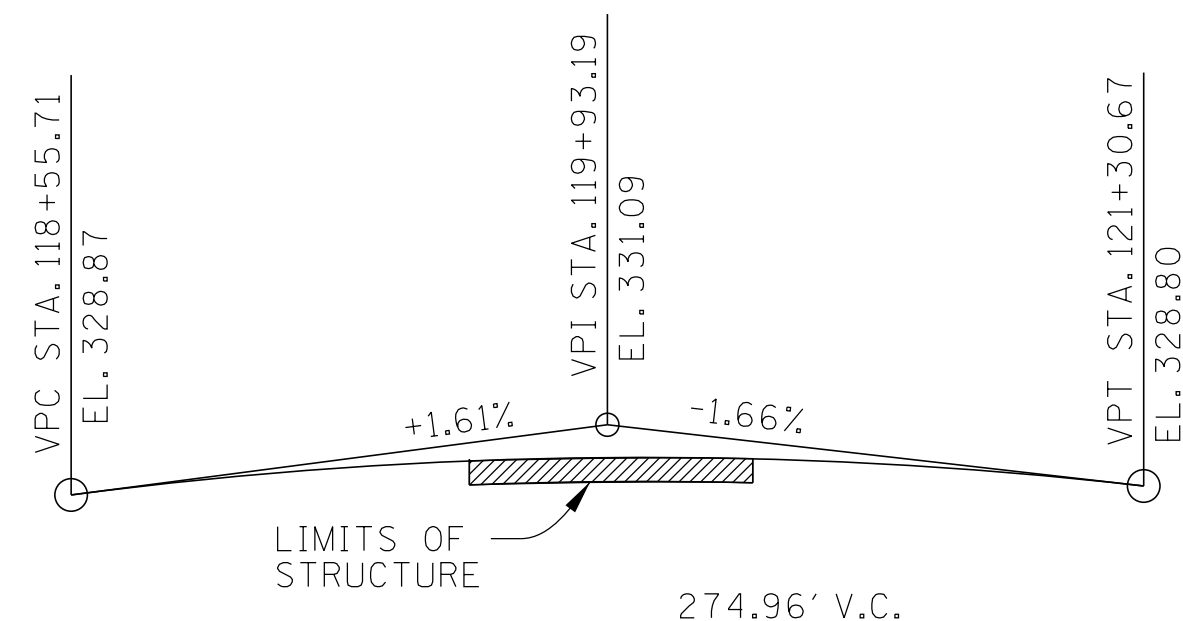


PLAN

NOTE: 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).

NOTE: HYDRAULIC DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.

NOTE: GEOTECHNICAL AND FOUNDATION DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.



GRADE SKETCH

STATE ROUTE 180
NO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY
LAYOUT OF BRIDGE
STATE ROUTE 180 OVER OTTER CREEK
BRIDGE ID NO. 38S8051003
STATION 119+93.17
LOG MILE 2.61
HAYWOOD COUNTY
2025

PIN NO.: 134848.00

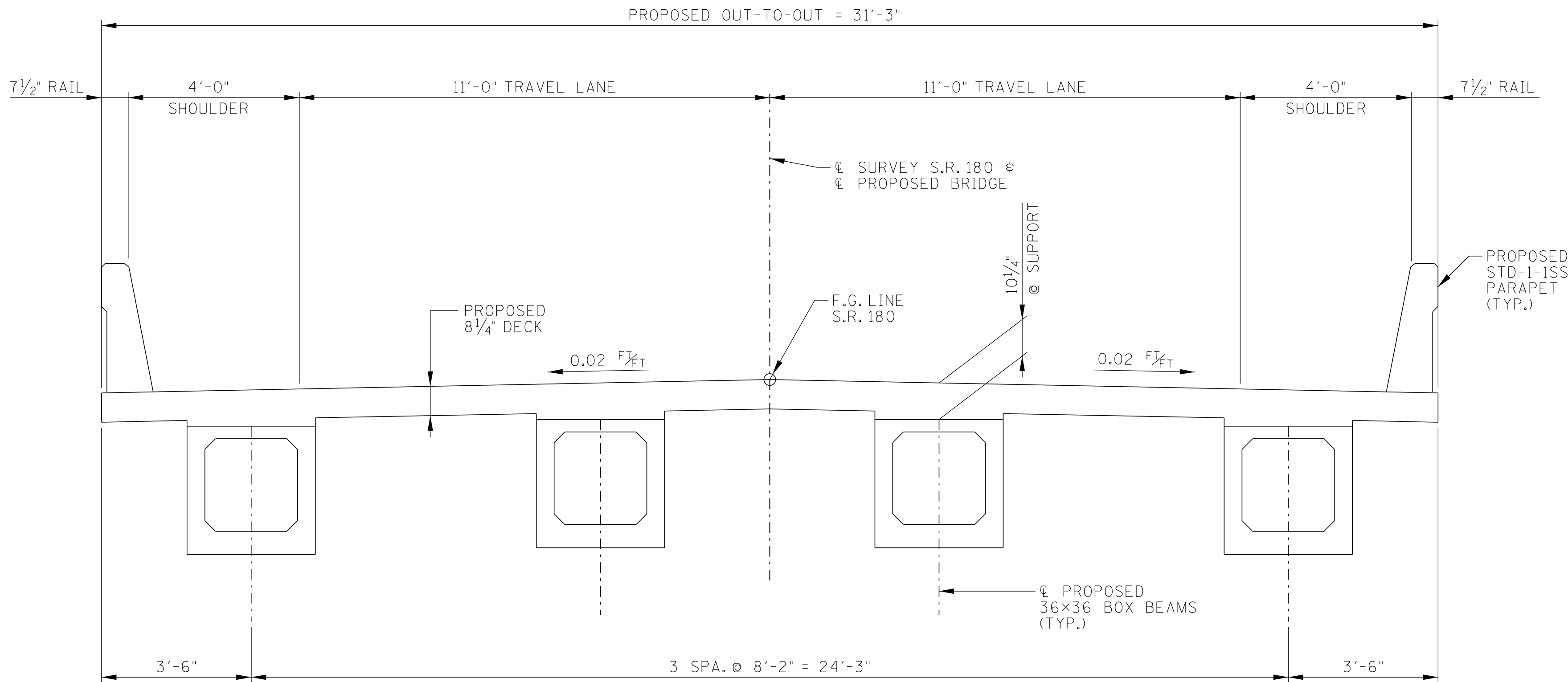
DESIGN BY: GS DATE: 08/01/25

DRAWN BY: GS DATE: 08/01/25

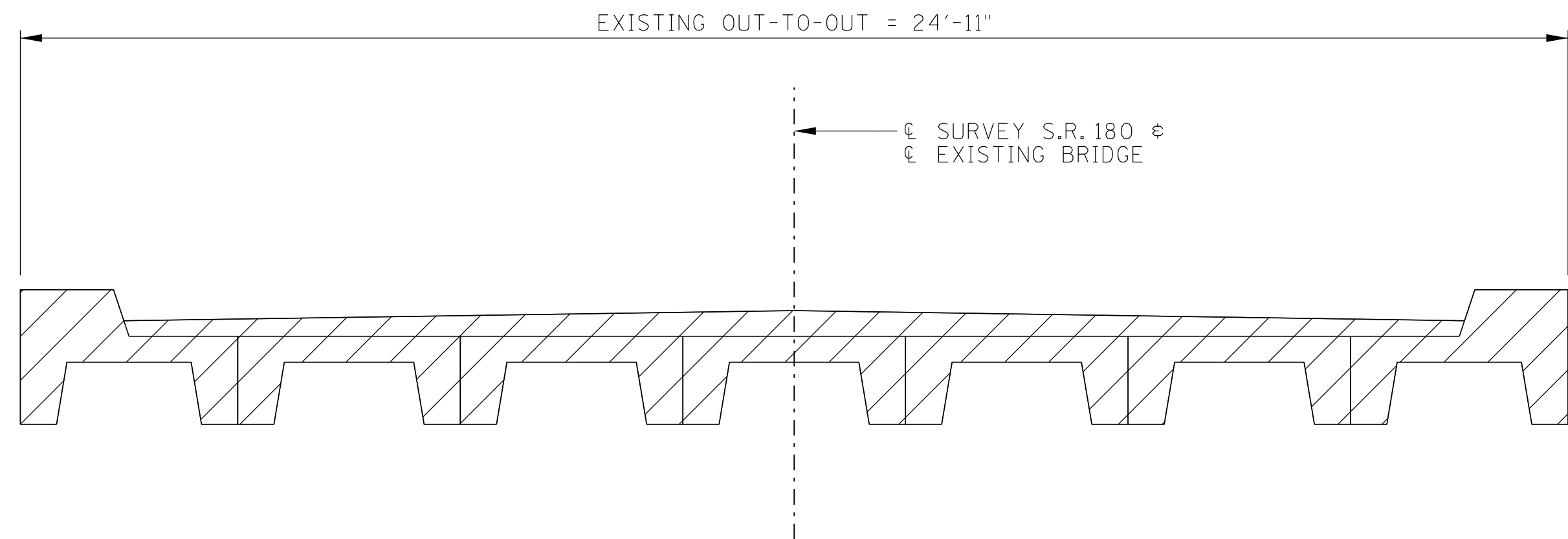
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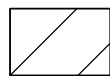
CONST. NO.:			
PROJECT NO.		YEAR	SHEET NO.
- -		2025	B-2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
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TYPICAL SECTION - PROPOSED
(LOOKING FORWARD ON SURVEY)



TYPICAL SECTION - EXISTING
(LOOKING FORWARD ON SURVEY)

 DENOTES: EXISTING STRUCTURE TO BE REMOVED

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY
BRIDGE TYPICAL SECTION
STATE ROUTE 180 OVER OTTER CREEK
BRIDGE ID NO. 38S8051003
STATION 119+93.17
LOG MILE 2.61
HAYWOOD COUNTY
2025

CONST. NO.:

PROJECT NO.		YEAR	SHEET NO.
- -		2025	B-3
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 (JANUARY 1, 2021 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 "C" WITH AS = 0.533, SDS = 1.078, SDI = 0.464 (1000 YEAR RETURN PERIOD); DEAD LOADS SHALL INCLUDE 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

SUPERSTRUCTURE: TO CONSIST OF ONE SINGLE SPAN OF SIMPLY SUPPORTED AASHTO TYPE IV GIRDERS SUPPORTING A COMPOSITE CONCRETE SLAB.

CONCRETE: CLASS A F'C=3000 PSI, CLASS D F'C=4000 PSI FOR BRIDGE DECK.

BEAM CONCRETE: CLASS A F'CI=8000 PSI, CLASS A F'C=9000 PSI FOR PROPOSED PRESTRESSED BOX BEAMS.

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.

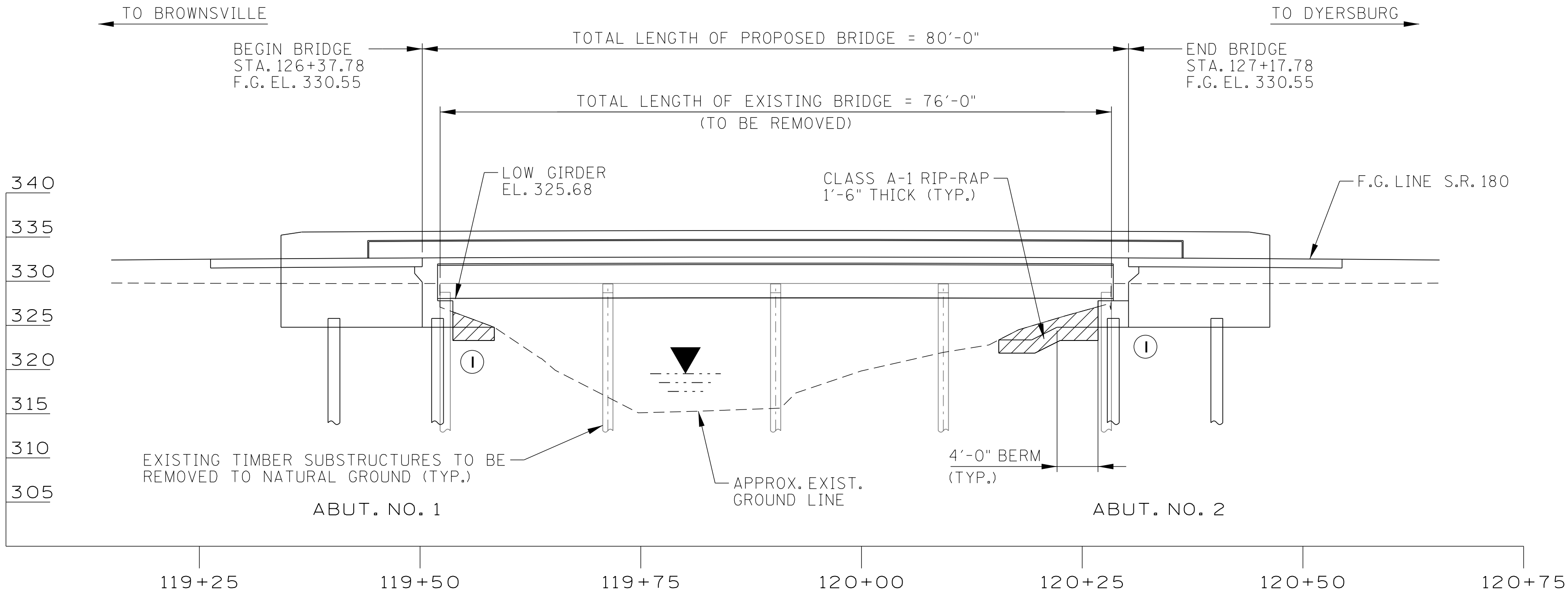
TEXTURE COATING: TO BE GRAY (36440) EXCEPT ENTIRE PARAPET TO BE WHITE (37886).

EXCAVATION: TO BE BASED ON FINAL PROFILE AT ABUTMENTS.

FLUMES AT BRIDGE ENDS ARE (REQUIRED/NOT REQUIRED.)

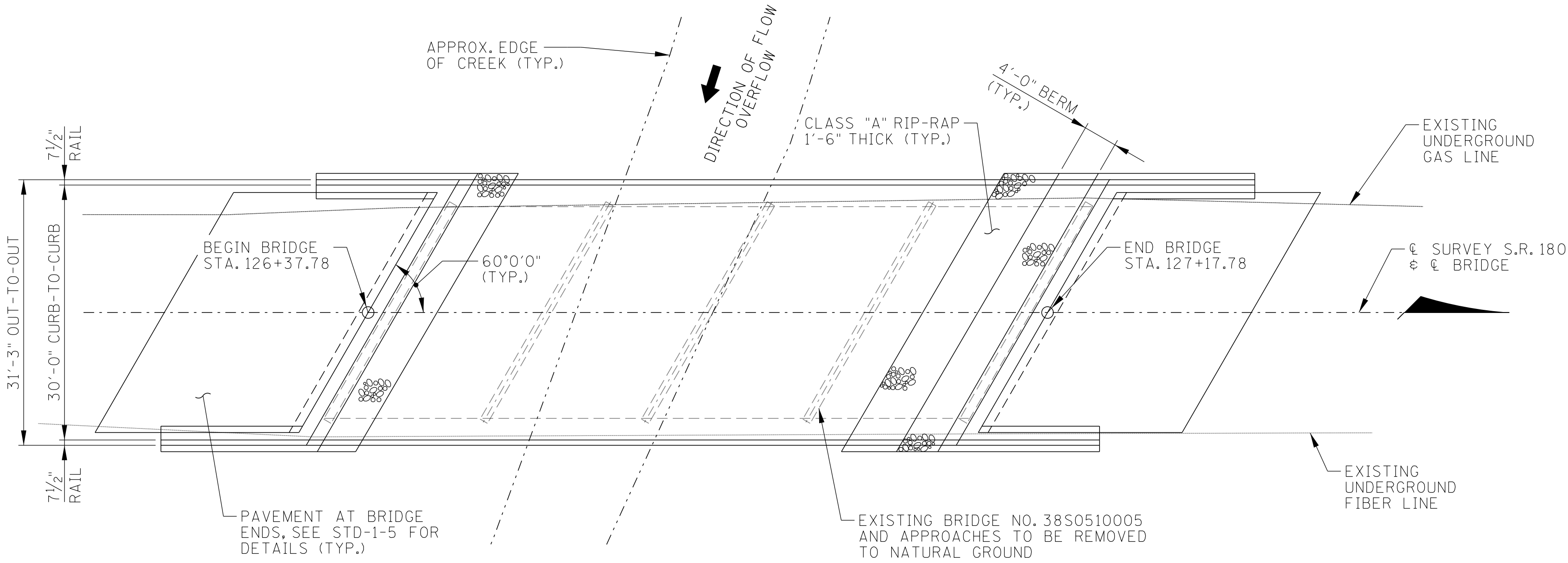
BRIDGE DECK DRAINS ARE NOT REQUIRED.

EXISTING BRIDGE DESCRIPTION: FOUR-SPAN AT 19'-0" = 76'-0" SIMPLY SUPPORTED CONCRETE CHANNEL BRIDGE WITH A 24'-11" OUT-TO-OUT WIDTH.



- ① DENOTES: INTEGRAL
▨ DENOTES: AREA TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM

ELEVATION

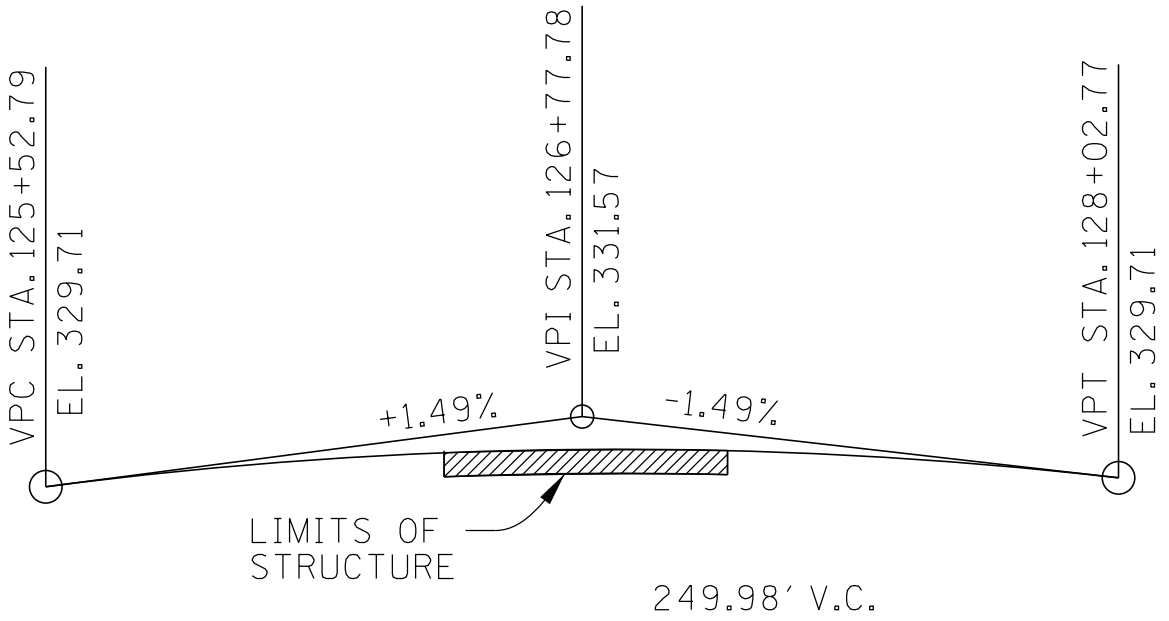


PLAN

NOTE: 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).

NOTE: HYDRAULIC DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.

NOTE: GEOTECHNICAL AND FOUNDATION DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.



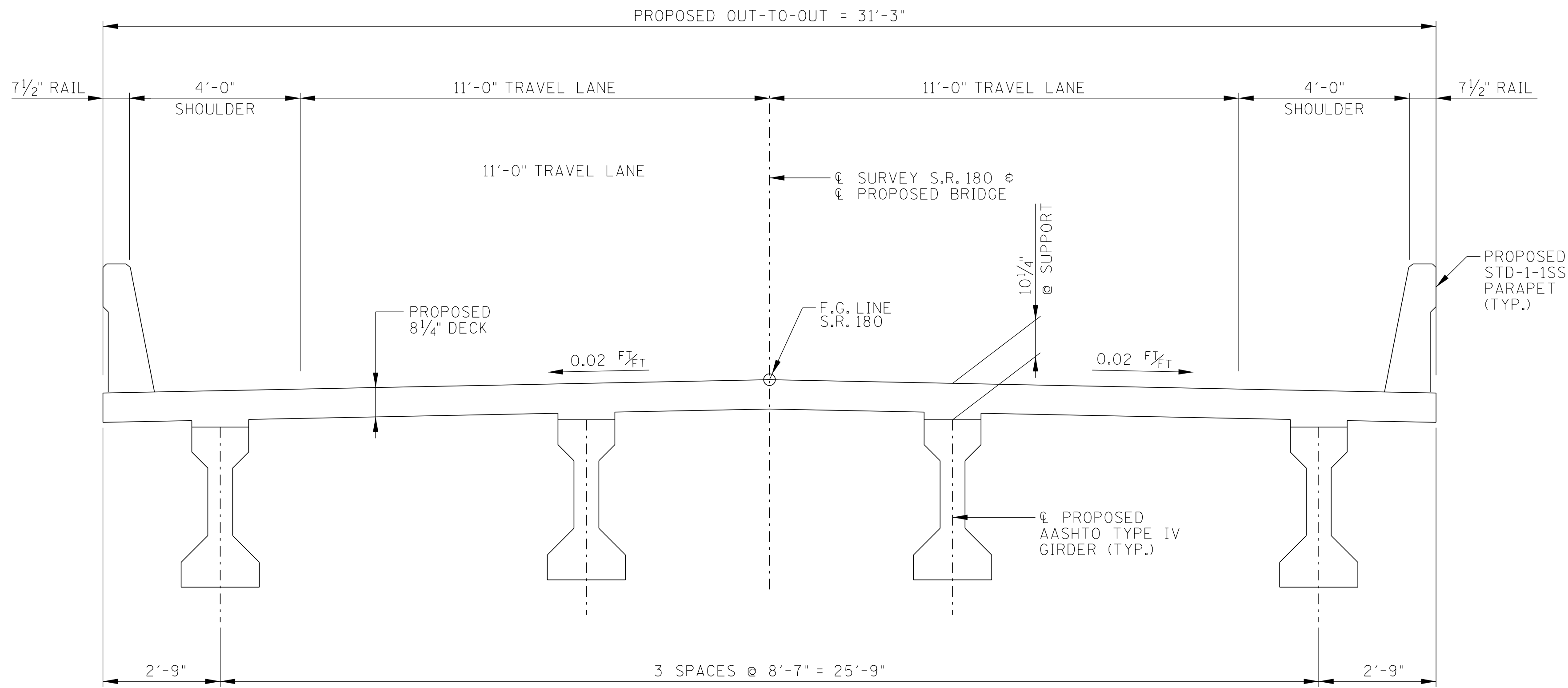
GRADE SKETCH

STATE ROUTE 180
NO SCALE

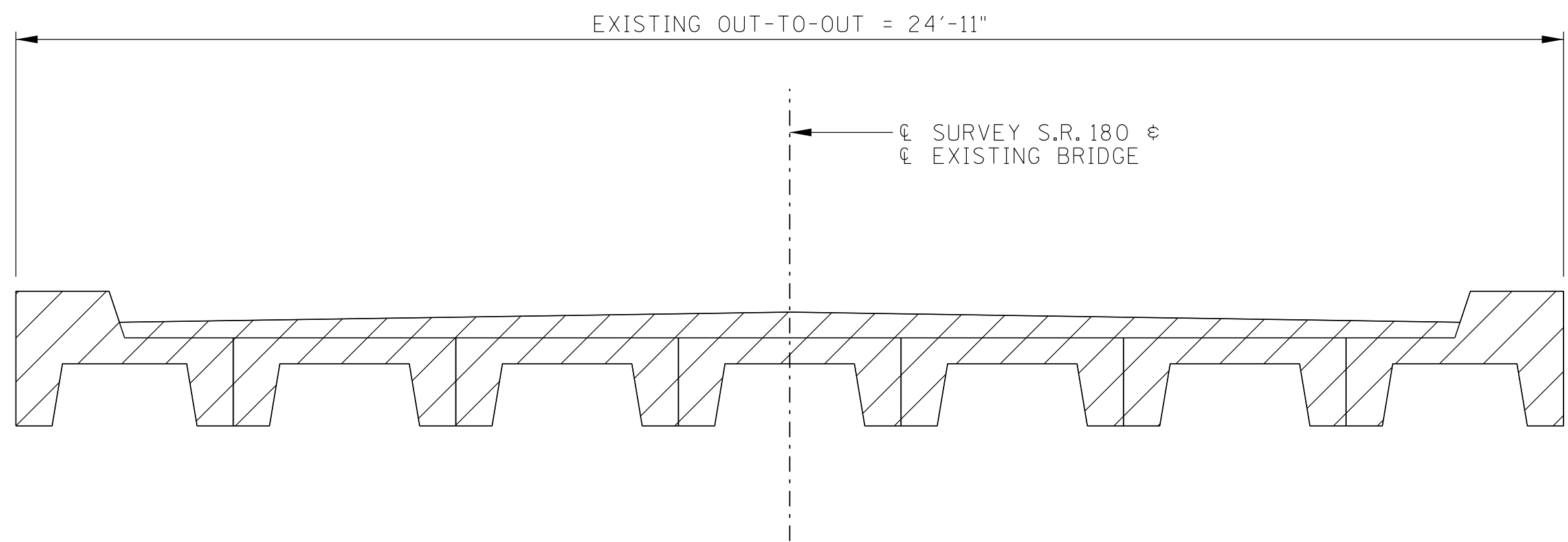
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY
LAYOUT OF BRIDGE
STATE ROUTE 180 OVER OVERFLOW
BRIDGE ID NO. 38S8051005
STATION 126+70.78
LOG MILE 2.74
HAYWOOD COUNTY
2025

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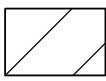
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- -		2025	B-4
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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