

Index Of Sheets

TITLE SHEET	1
TYPICAL SECTIONS	2B,2B1
RIGHT-OF-WAY NCTES, UTILITY NOTES and UTILITY OWNERS.....	3
RIGHT-OF-WAY ACQUISITION TABLES	3A
PROPERTY MAP	3B
PRESENT LAYOUT(S)	4
RIGHT-OF-WAY DETAILS.....	4A
PROPOSED LAYOUT(S)	4B
PROPOSED PROFILE(S)	4C
SIDE ROAD PROFILES	5
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S)	6
DRAINAGE MAP(S)	7
ROADWAY CROSS SECTIONS	8-17
BRIDGE PRELIMINARY PLANS	B-1, B-2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

FAYETTE COUNTY

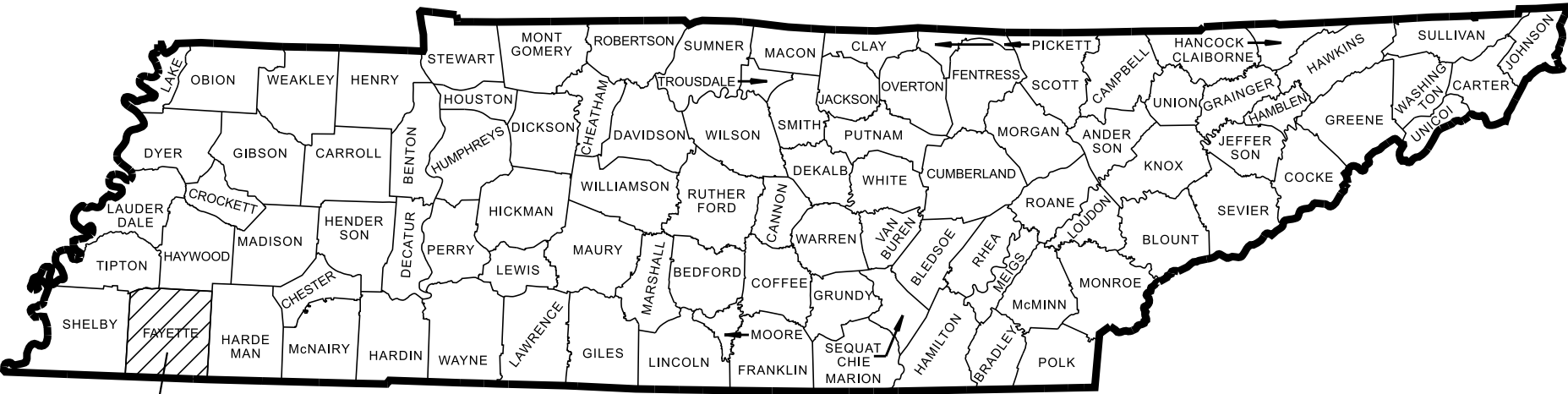
STATE ROUTE 193
BRIDGE OVER BRANCH, L.M. 7.71

LINE AND GRADE
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 193

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

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	24S193-S1-004	



PROJECT LOCATION
BRIDGE ID. # 24014580003

END PROJECT NO. 24S193-S1-004 PRELIMINARY

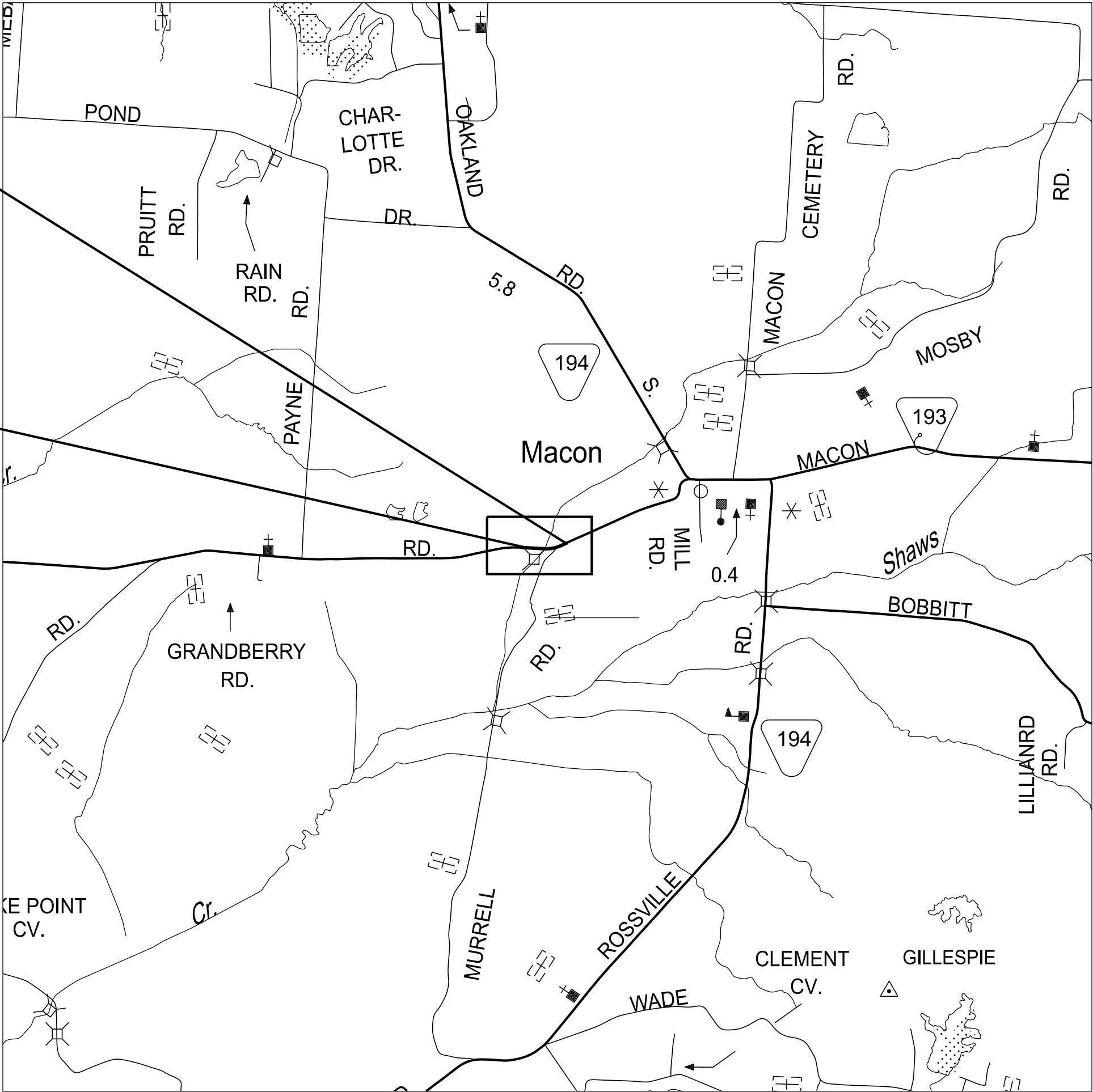
STA. 110+70.00 S.R. 193

N 315537.7867 E 921427.3982

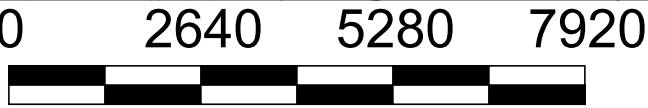
BEGIN PROJECT NO. 24S193-S1-004 PRELIMINARY

STA. 101+00.00 S.R. 193

N 315429.1543 E 920480.7712



SCALE: 1"= 1/2 MILE



R.O.W. LENGTH	0.203 MILES
ROADWAY LENGTH	0.167 MILES
BRIDGE LENGTH	0.017 MILES
PROJECT LENGTH	0.184 MILES ▲

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

NO EXCLUSIONS

ROAD TO BE CLOSED
DURING CONSTRUCTION

LINE
AND
GRADE

DESIGN EXCEPTION
APPROVED - -

1) DESIGN EXCEPTION FOR 4 FOOT
PROPOSED SHOULDER

SEALED BY

APPROVED:

Shane Hester

SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:

Will Reid

WILL REID, COMMISSIONER

SPECIAL NOTES

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

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

TDOT PROJECT MANAGER: DEREK LINK

DESIGN FIRM : AMERICAN STRUCTUREPOINT INC.

DESIGNER : Dennis Naillon, PE

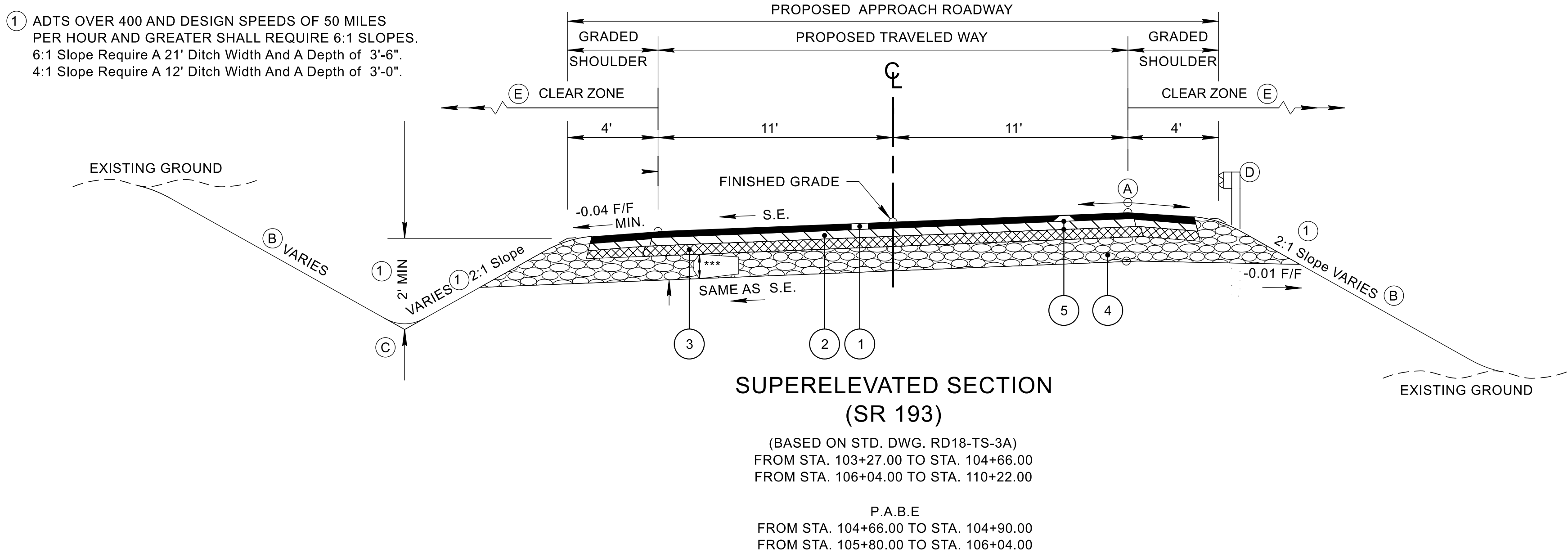
CHECKED BY Gabe Liptak, PE

P.E. NO. R4-SVAR-S1-058

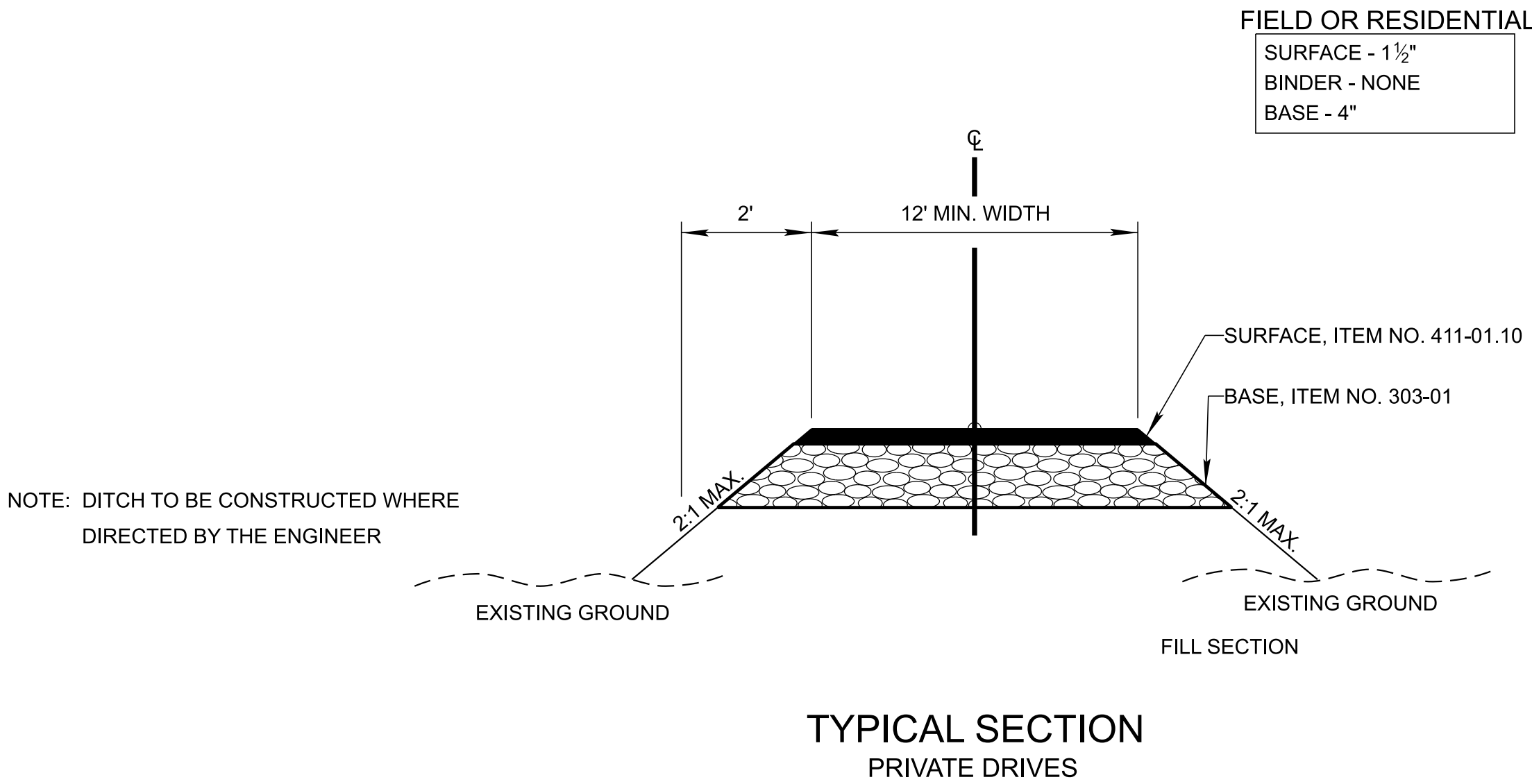
PIN NO. 137109.02

SURVEY - -	TRAFFIC DATA	
TN STATE LIDAR UTILIZED WITH SUPPLEMENTAL SURVEY FOR EXISTING STREAM BRIDGE ONLY	ADT (2029)	1,830
	ADT (2049)	2,010
	DHV (2049)	261
	D	-
	T (ADT)	2.00 %
	T (DHV)	2.00 %
	V	45 MPH

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	2B



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



- Ⓐ WHERE SURFACE OF EXISTING SURFACE DRIVE IS CONCRETE, SUBSTITUTE 6" CONCRETE.
- Ⓑ IF ANY EXISTING DRIVE IS GREATER THAN 12'. THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH BUT NOT GREATER THAN THE MAXIMUM ALLOWED AS SPECIFIED IN THE RULES AND REGULATIONS.

CAUTION!
LINE AND GRADE PLANS
FOR REFERENCE
ONLY
SUBJECT TO
CHANGE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTION

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

CABLE:

AT&T
315 EAST COLLEGE STREET
JACKSON, TN 38301
CONTACT: DANIEL R. POTTS
OFFICE PHONE: (901) 488-2359
EMAIL: DP7607@ATT.COM

ELECTRIC:

CHICKASAW ELECTRIC COOPERATIVE
17970 HWY 64 EAST
SOMERVILLE, TN 38068
CONTACT: LOYD MUNCY
OFFICE PHONE: (901) 466-2536
EMAIL: LMUNCY@CHICKASAW.COOP

CABLE:

COMCAST
CONTACT: JEFFREY OLIVER
OFFICE PHONE: (772) 631-5371
EMAIL: JEFFREY_OLIVER@COMCAST.COM

UTILITY:

HARDEMAN FAYETTE UTILITY DISTRICT
15175 HWY 57 EAST / P.O. BOX 7
MOSCOW, TN 38057
CONTACT: CLAY JOYNER
OFFICE PHONE: (901) 877-6236
EMAIL: CJOYNER@HFUTILITYDISTRICT.COM

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	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													
4	KARAN M. WILLIAMS	127	003.02	240	01119	0.987		0.987	649 S.F.		649 S.F.	0.972						
5	THELMA LEWIS	127	041.00	070	04400		16.848	16.848		0.721	0.721		16.127			2375 S.F.		
6	LILLIAN WARREN	127	003.01	211	354	0.999		0.999	0.229		0.229	0.770						
7	J. B. WILLIAMS AND KARAN WILLIAMS	127	003.00	288	237	3.314		3.314	0.668		0.668	2.646						
8	ANDREA WALKER	127	003.03	070	02799	1.702		1.702	0.491		0.491	1.211						
9	IOLA WILSON	127	041.01	195	803		1.027	1.027		778 S.F.	778 S.F.		1.009			0.127		
10	DOUGLAS HUGHES, JR. AND JENNIFER HUGHES	127	041.07	200	05783		9.485	9.485		0.230	0.230		9.255			842 S.F.		
11	RAYMOND SNELL	127	004.01	070	10343	48.252		48.252	0.316		0.316	47.936						
12	CINDY SWIFT	127	041.03	696	500		0.799	0.799					0.799					
ACQUISITION TOTALS (ACRES)									2.685							3217.127		

TRACTS 1-3 AND 13 AREN'T SHOWN ON THE MAPS, AND HAVE NO IMPACTS

DISTURBED AREA		
IN BETWEEN SLOPE LINES		1.724 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)		2.611 (AC)
TOTAL DISTURBED AREA		4.334 (AC)
TOTAL PROJECT AREA		4.334 (AC)

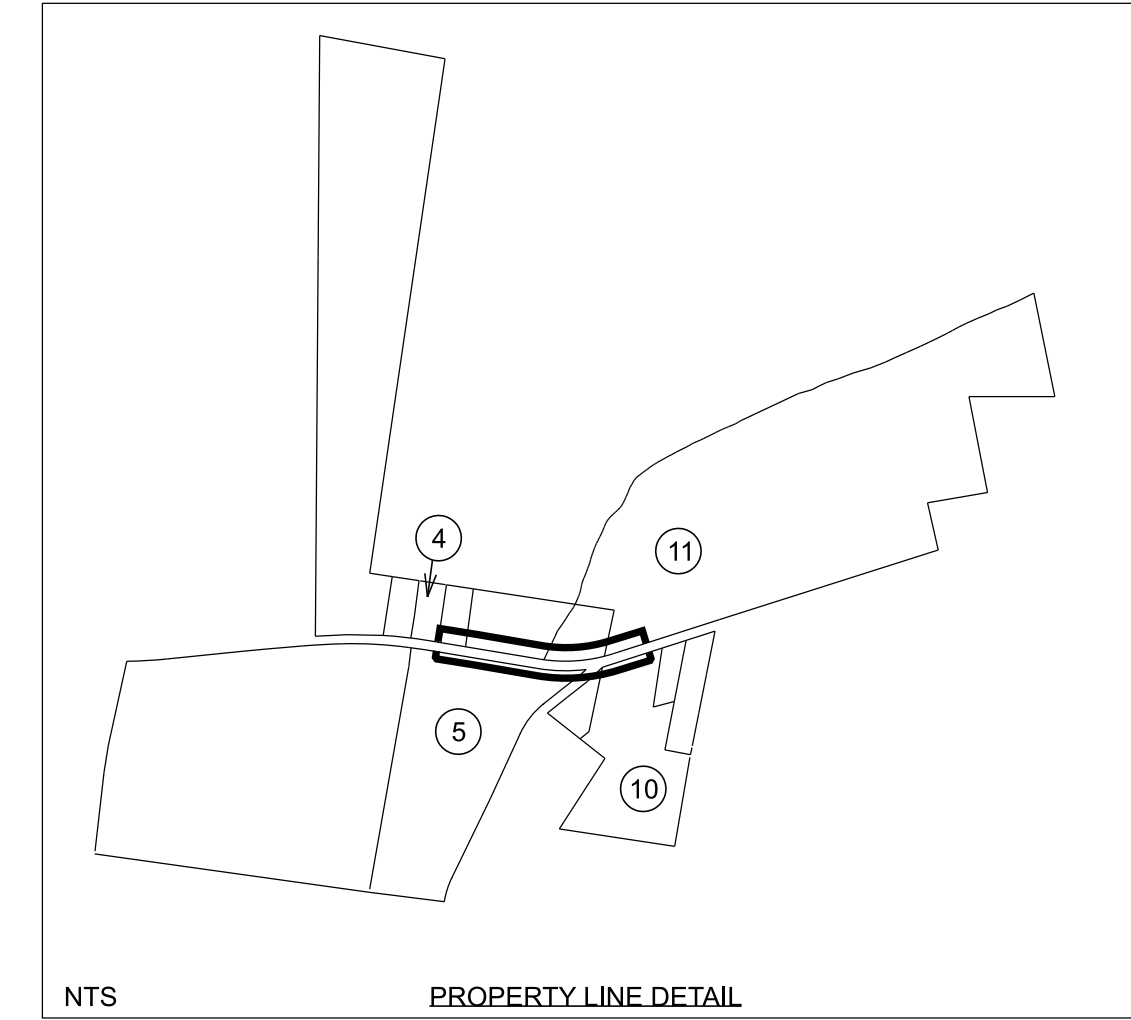
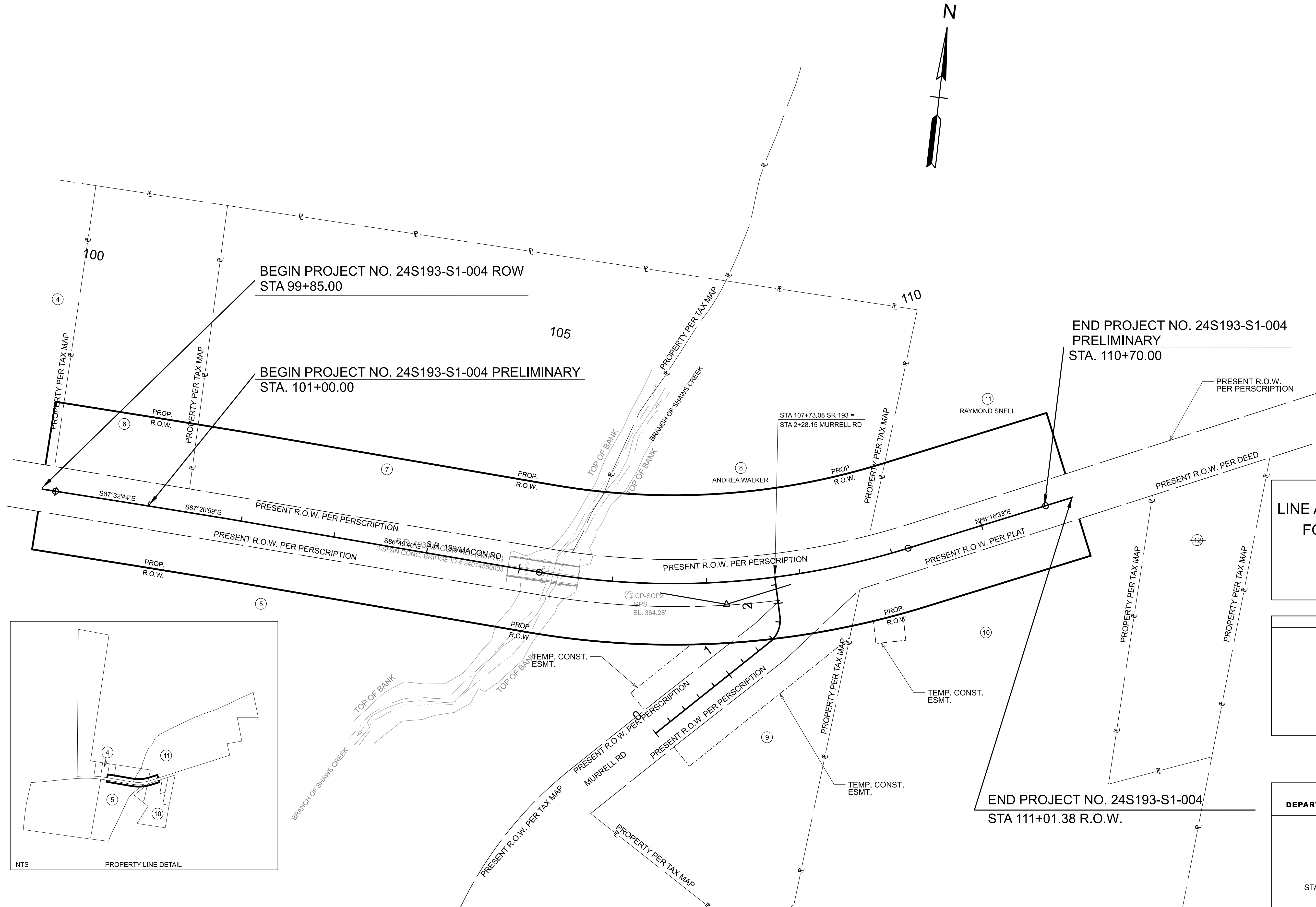
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DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISITION
TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	3B



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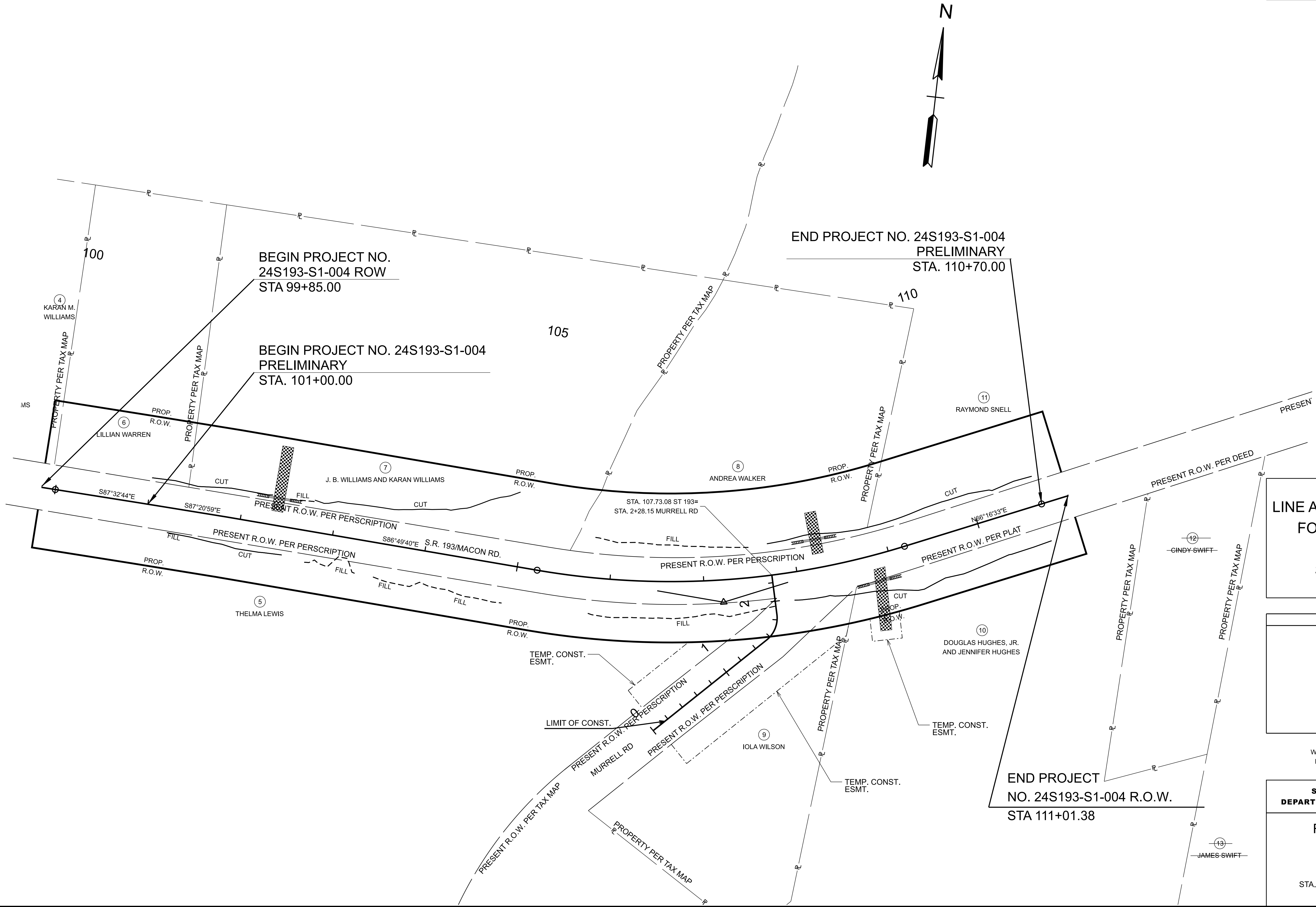
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPERTY
MAP**

STA. 99+50.00 TO STA. 111+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	4A



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SEALED BY

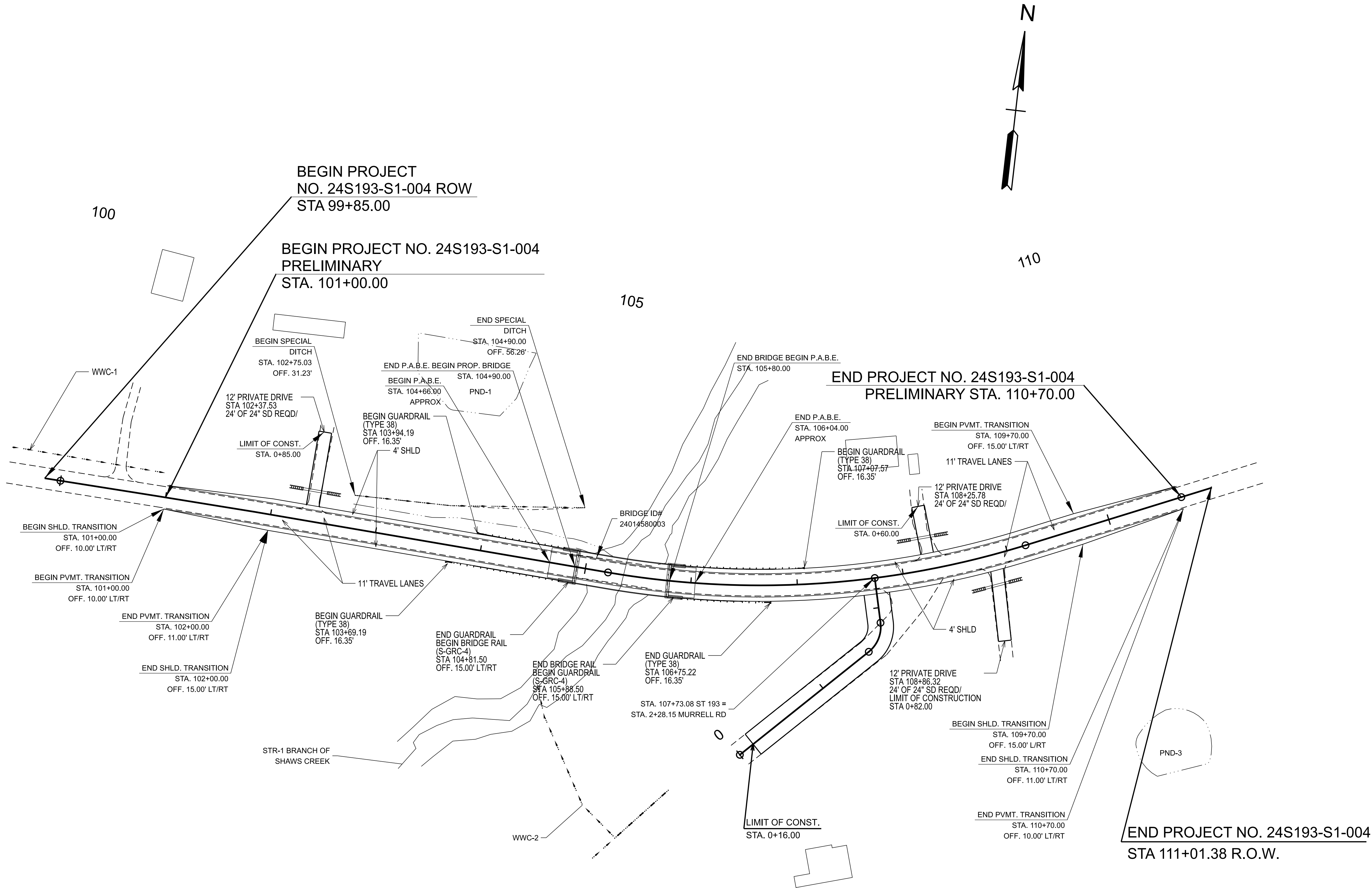
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY
DETAILS**

STA. 99+50.00 TO STA. 111+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	4B



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LINE AND GRADE PLANS
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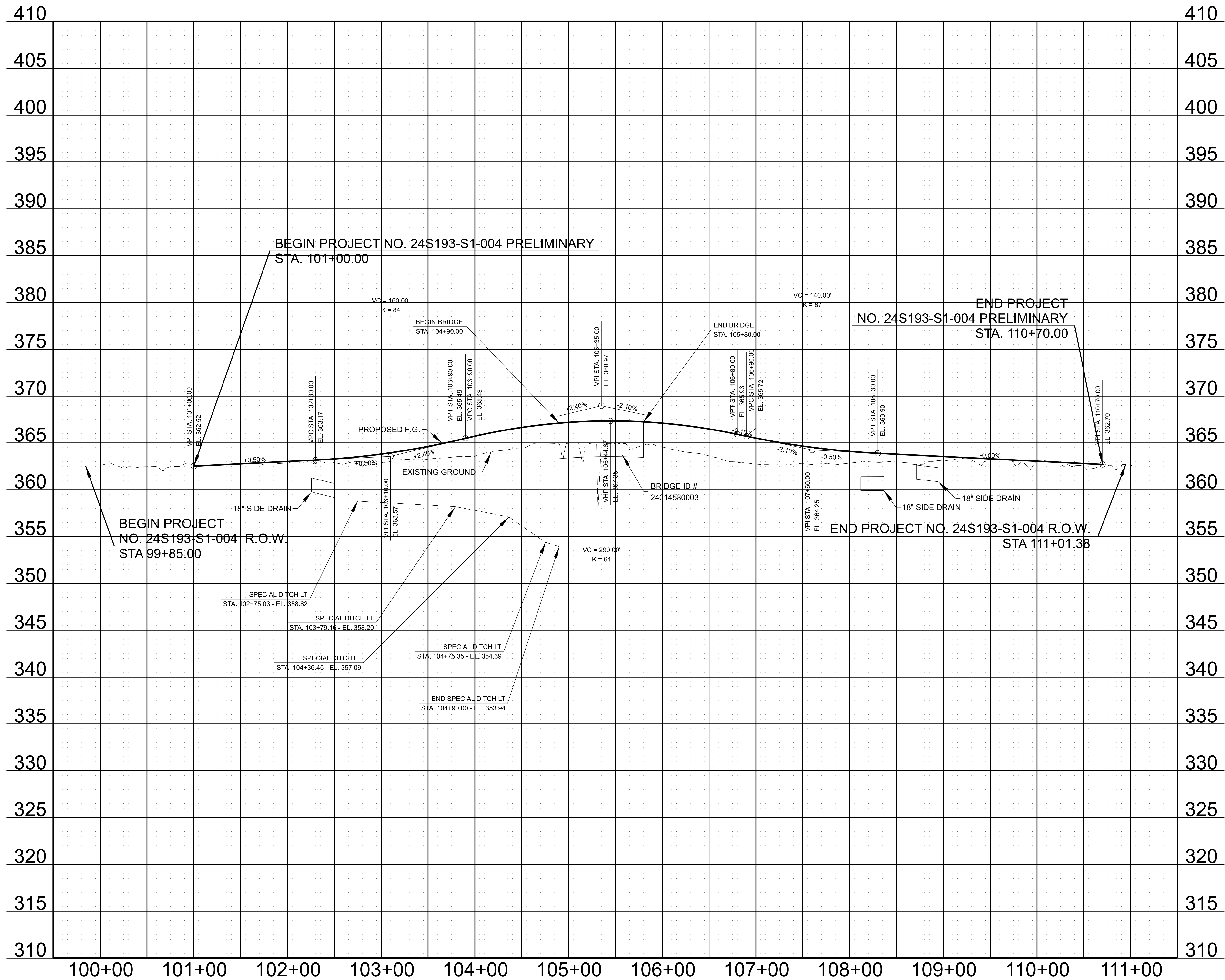
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TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SR 193 (BRIDGE 17)
PROPOSED
LAYOUT

STA. 100+00.00 TO STA. 111+50.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	4C

CAUTION!
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SUBJECT TO
CHANGE

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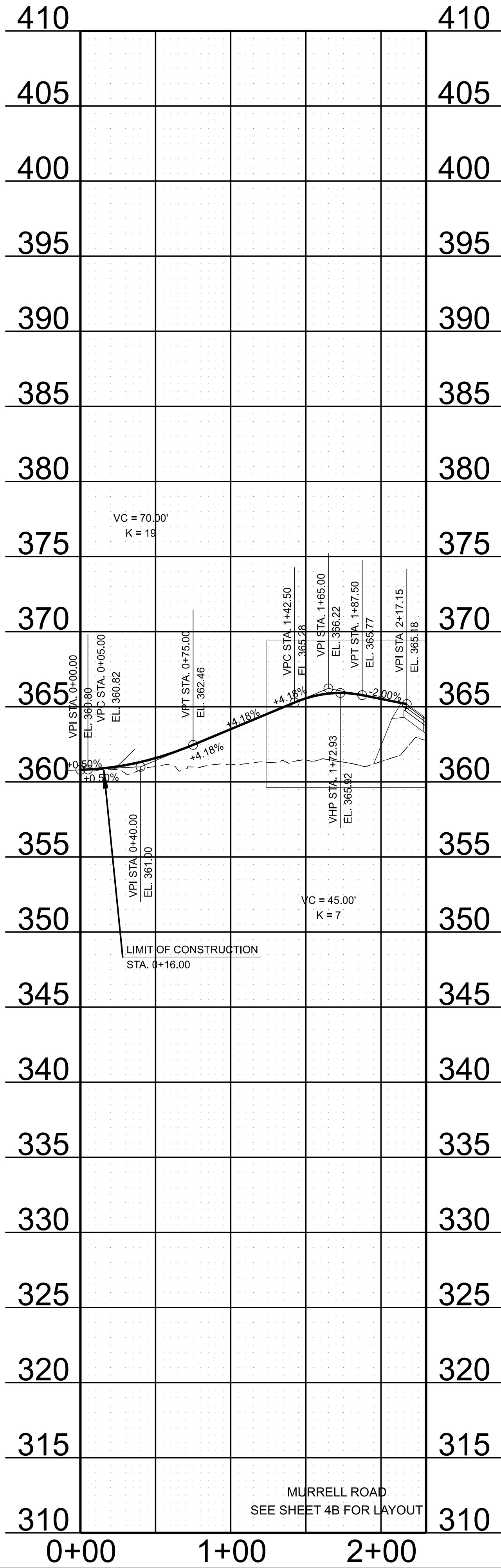
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**PROPOSED
PROFILE**

STA. 99+50.00 TO STA. 111+50.00

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	5

CAUTION!
LINE AND GRADE PLANS
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SEALED BY

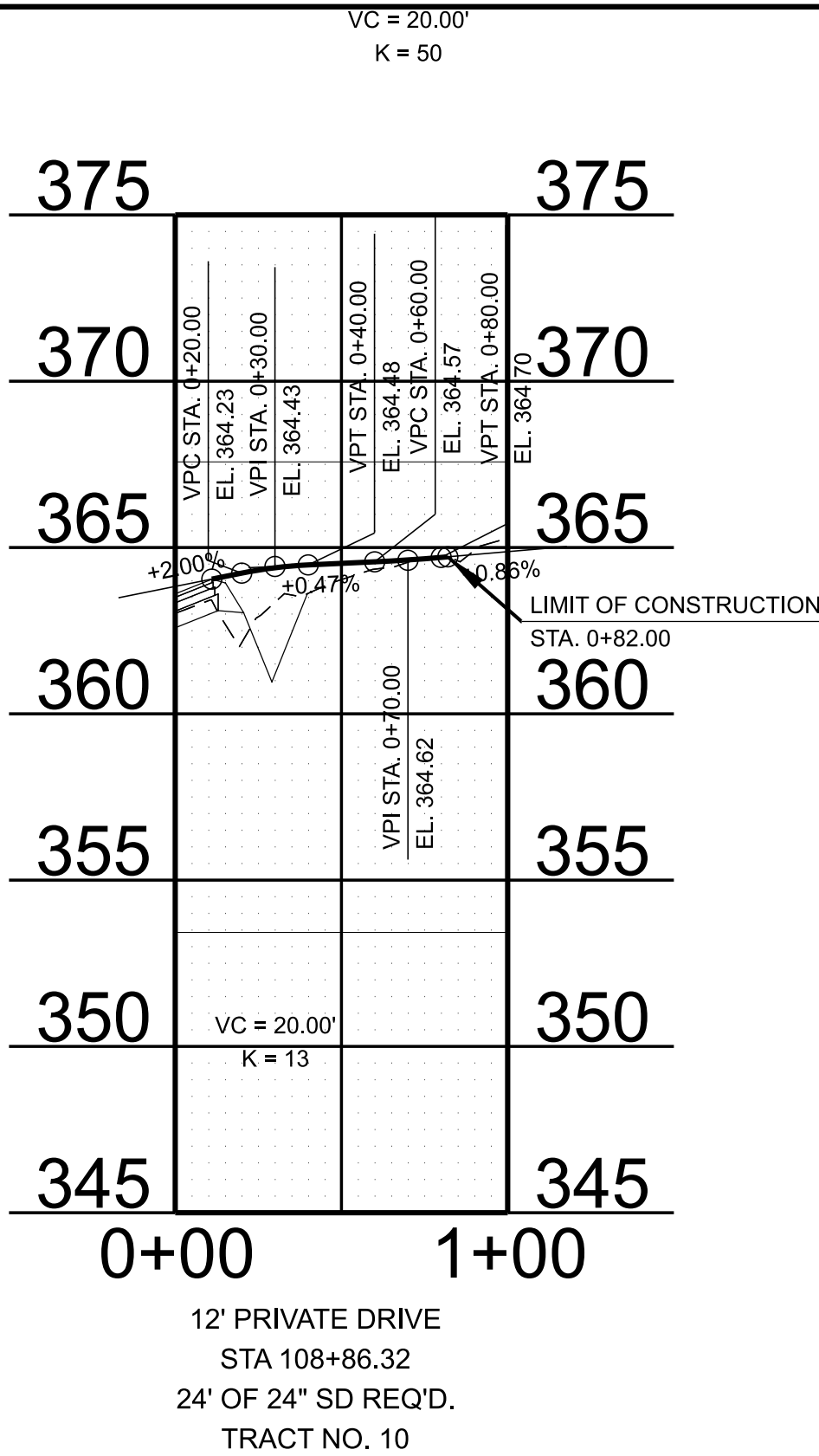
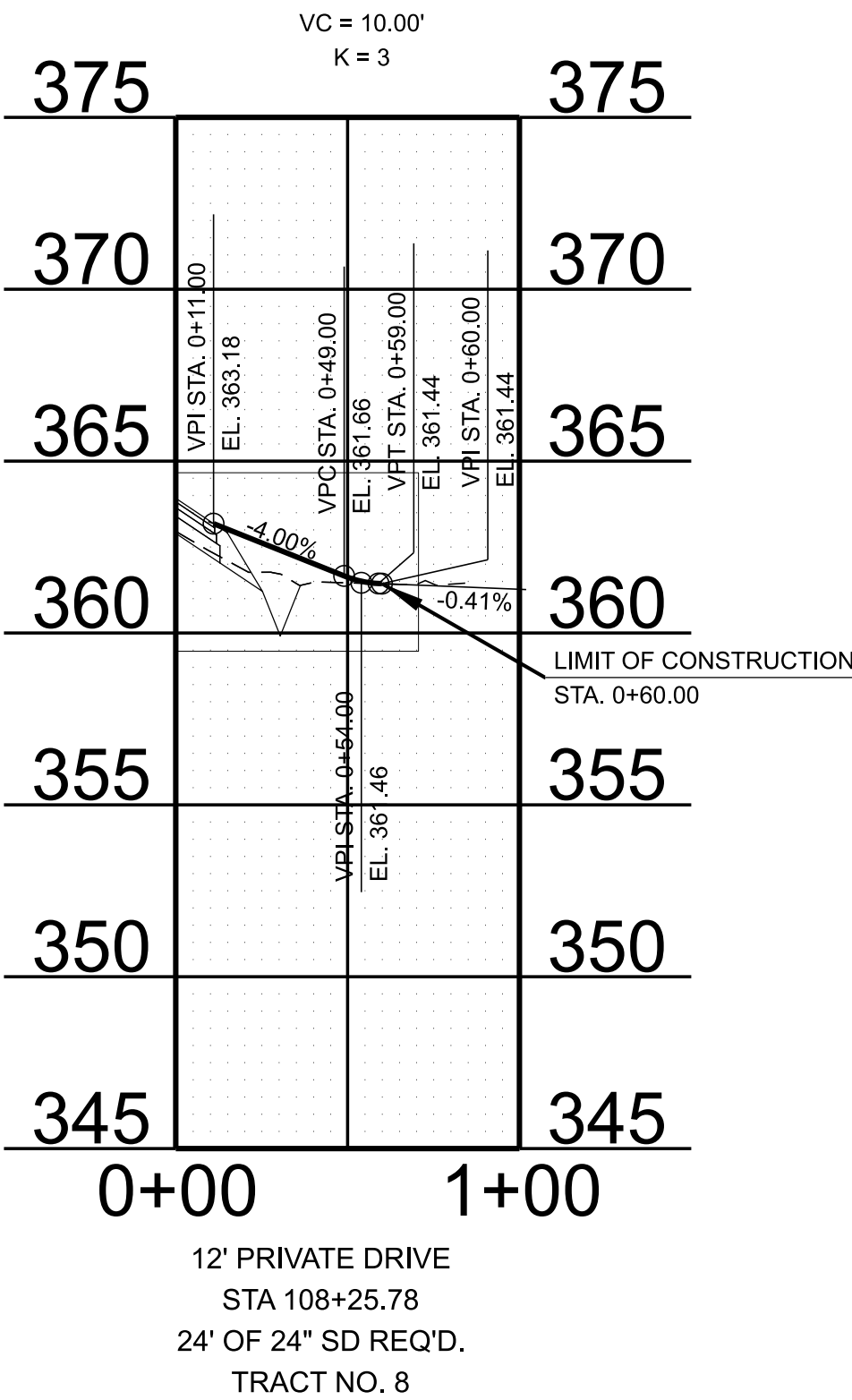
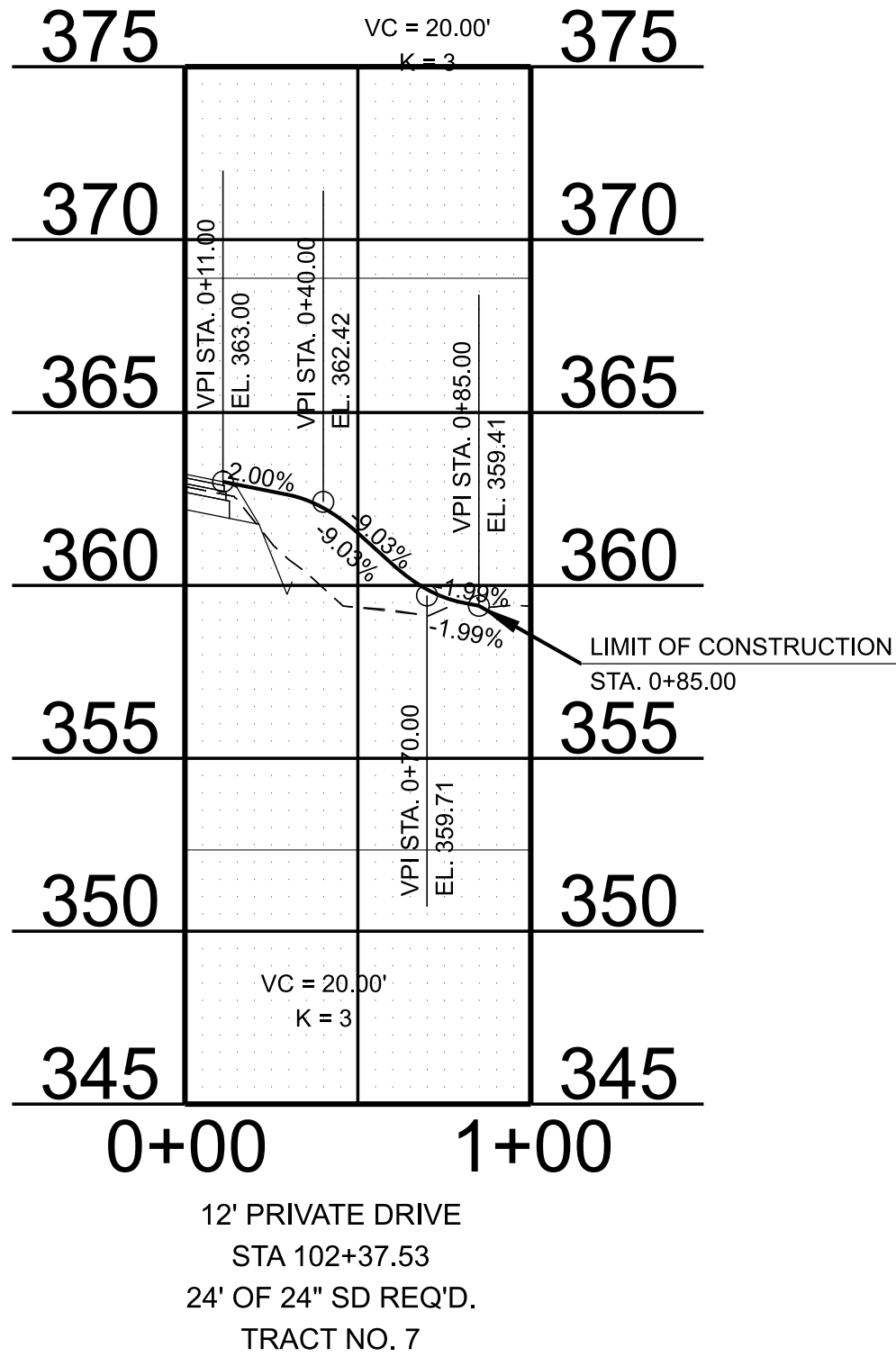
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

STA. 0+00.00 TO STA. 2+30.00

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	6

CAUTION!
LINE AND GRADE PLANS
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SUBJECT TO
CHANGE

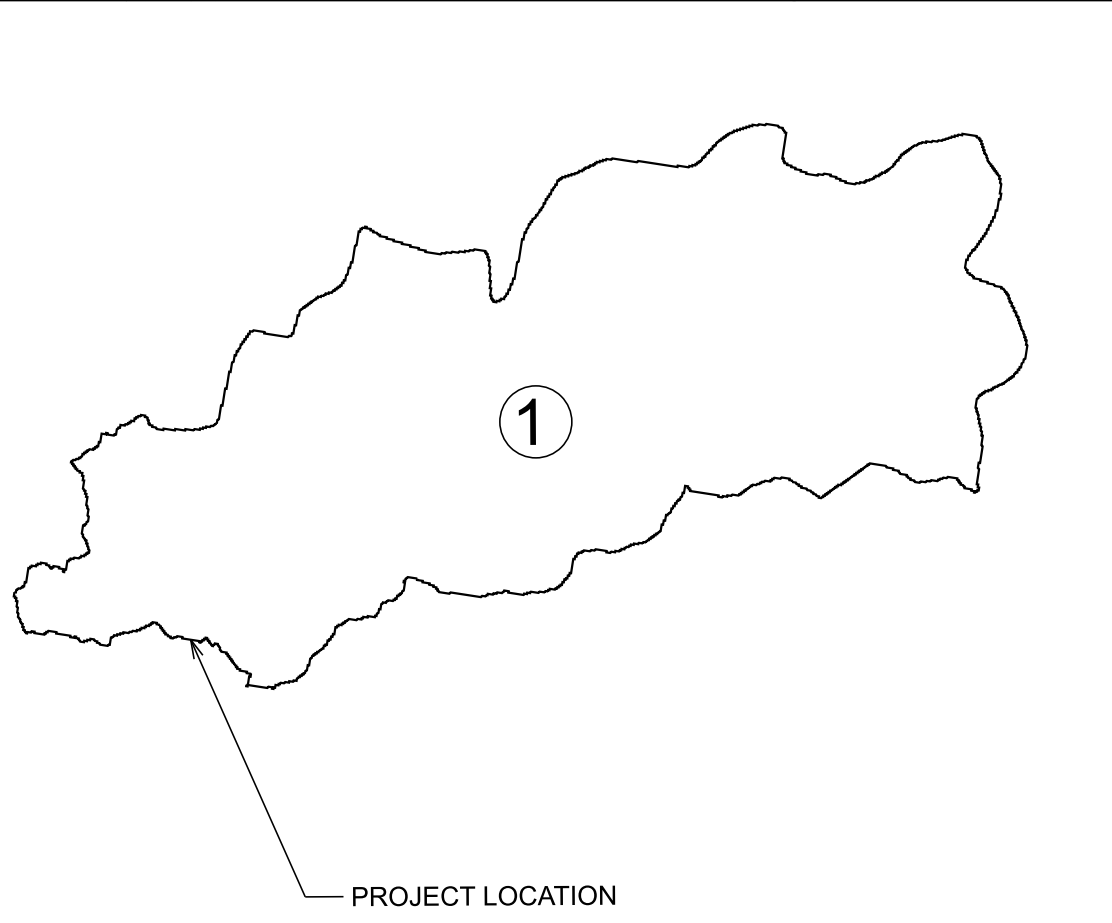
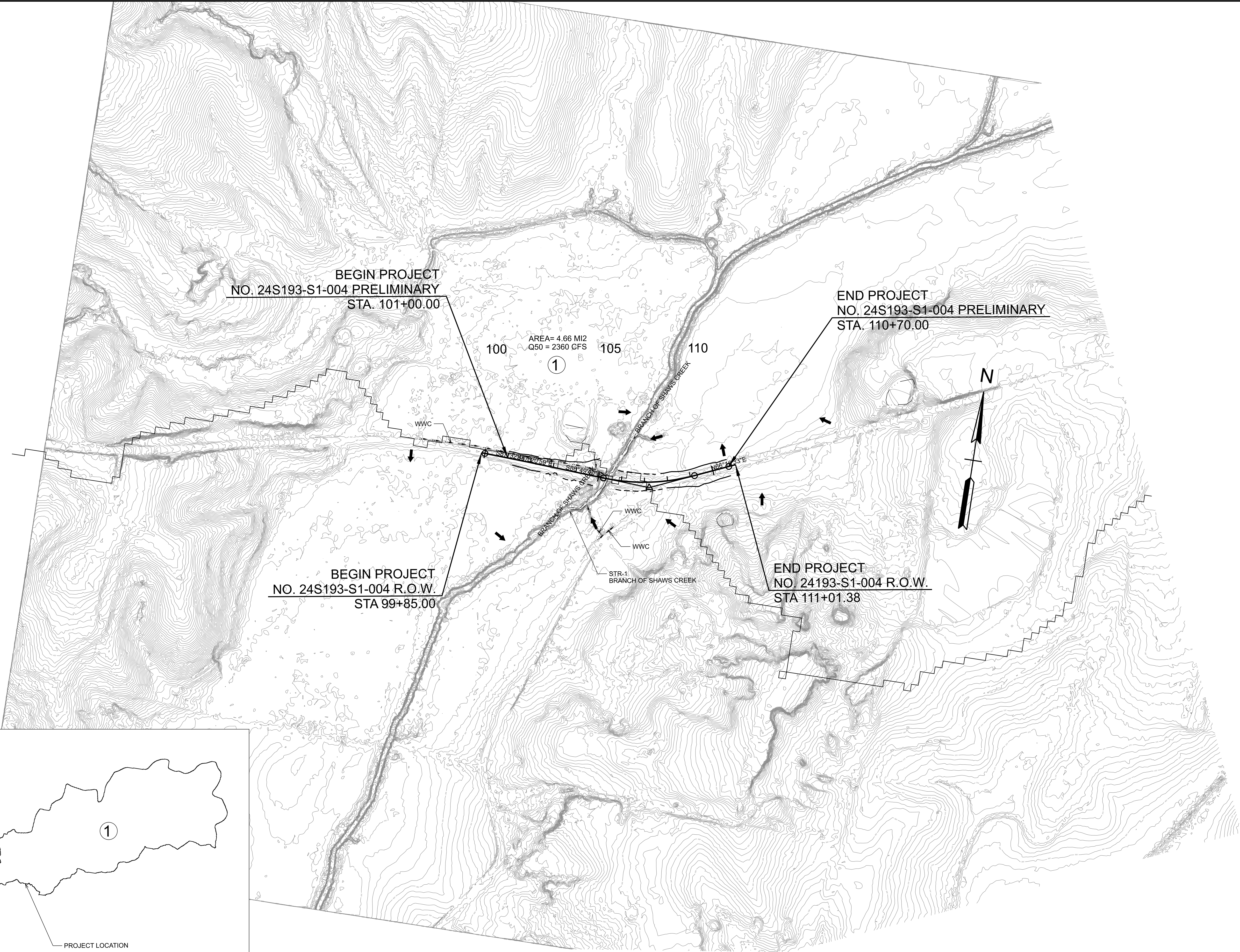
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TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE,
BUISNESS, AND
FIELD ENTRANCE
PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	6



CAUTION!
LINE AND GRADE PLANS
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SEALED BY

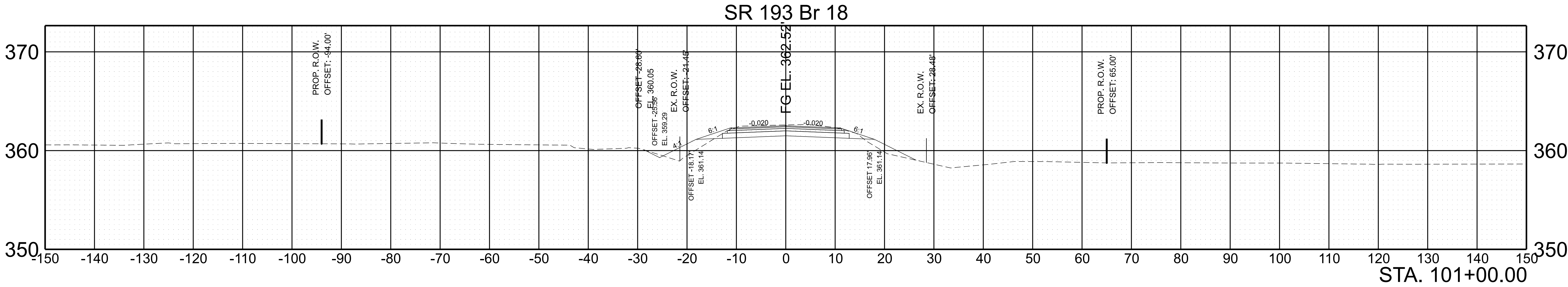
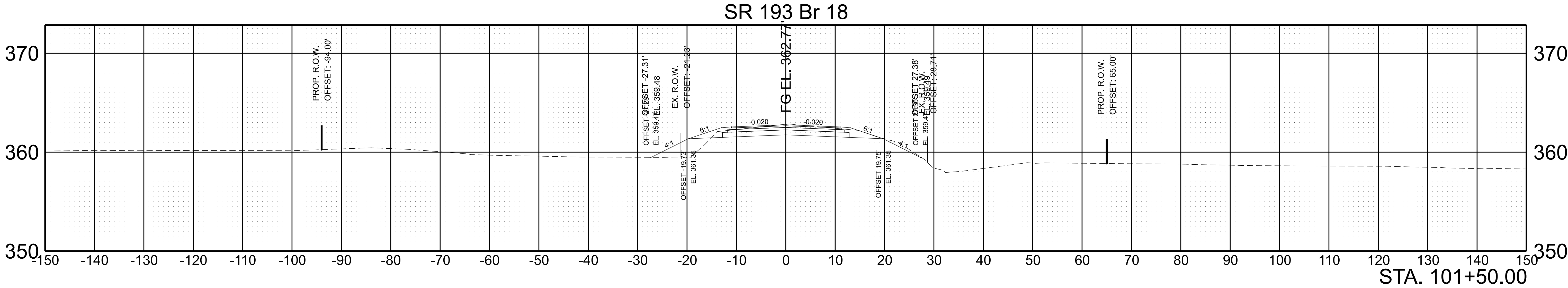
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

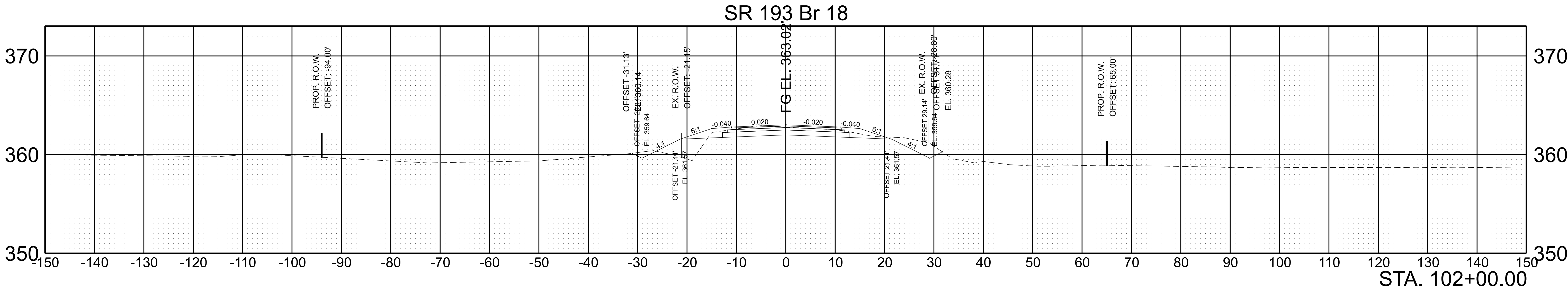
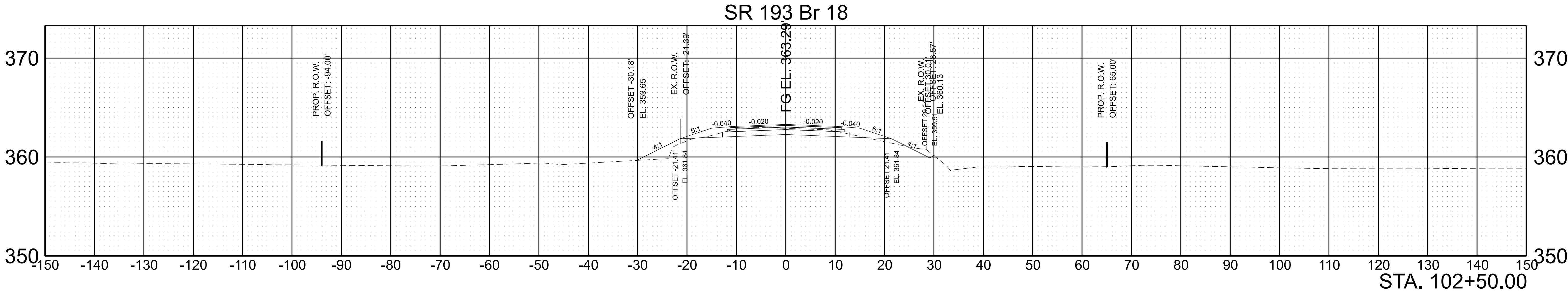
STA. 99+85.00 TO STA. 111+01.38
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	7



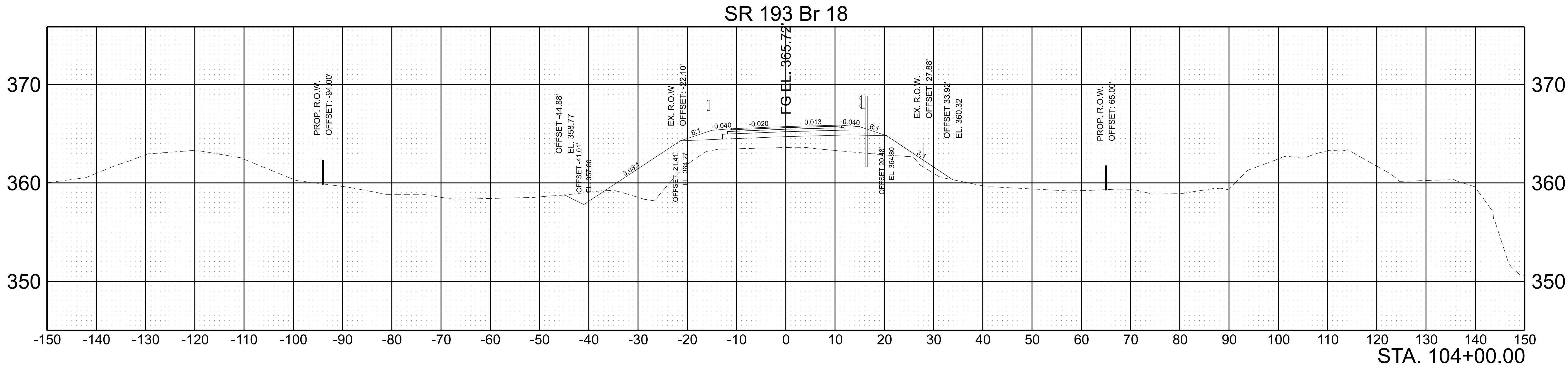
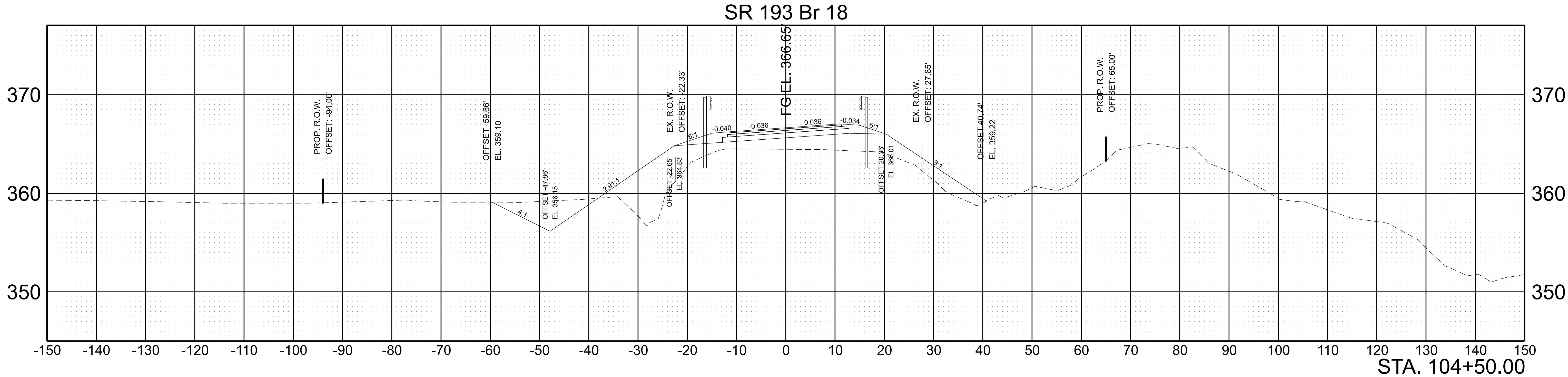
SCALE:	1"=10' HORIZ.	BEGIN STA. 101+00.00
	1"=5' VERT.	END STA. 101+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	8



SCALE:	1"=10' HORIZ.	BEGIN STA. 102+00.00
	1"=5' VERT.	END STA. 102+50.00

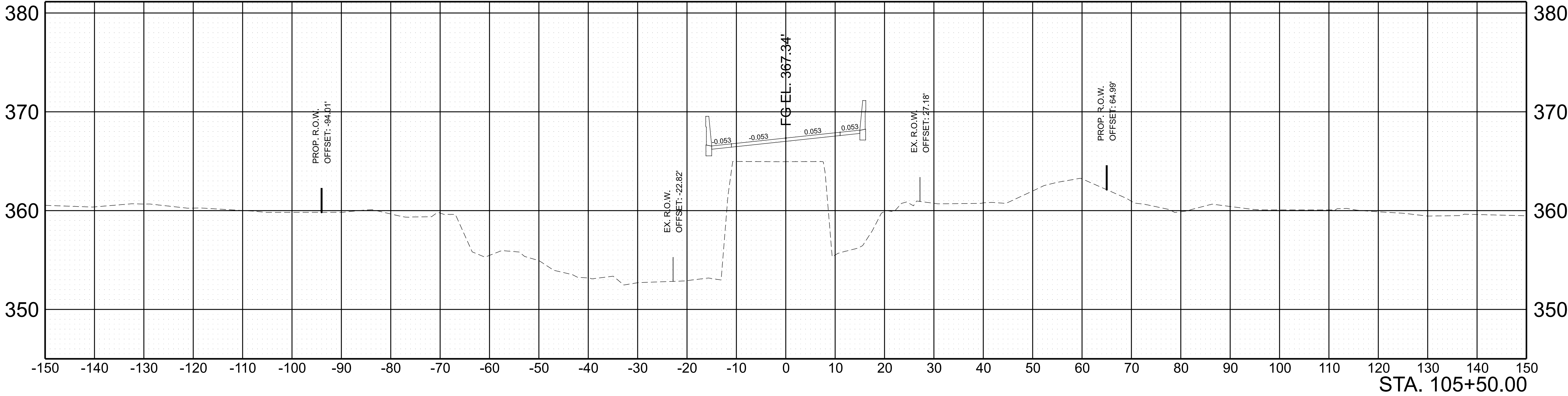
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	10



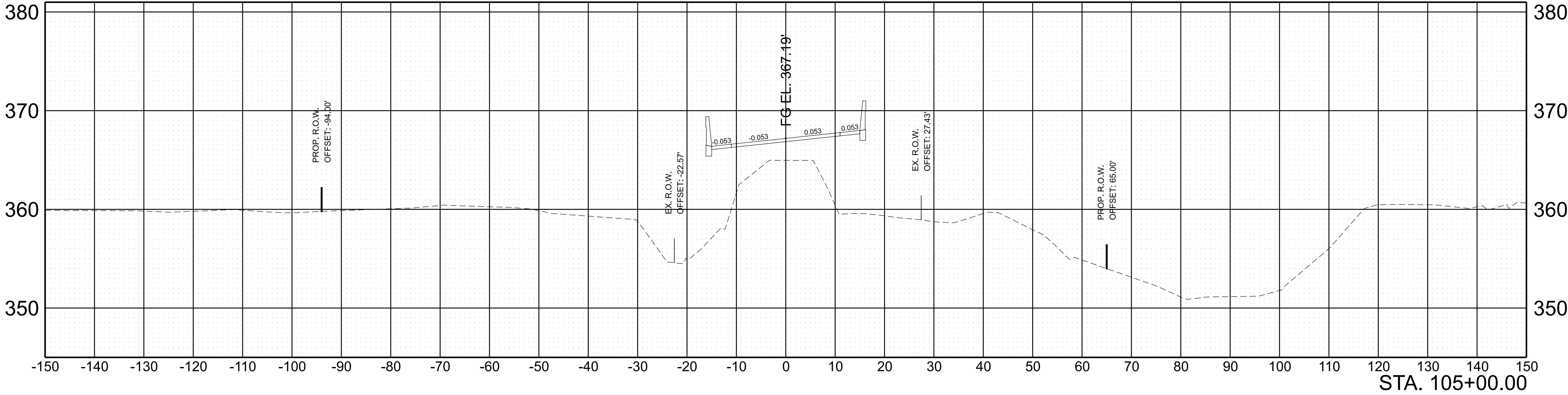
SCALE:	1"=10' HORIZ.	BEGIN STA. 104+00.00
	1"=5' VERT.	END STA. 104+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	11

SR 193 Br 18



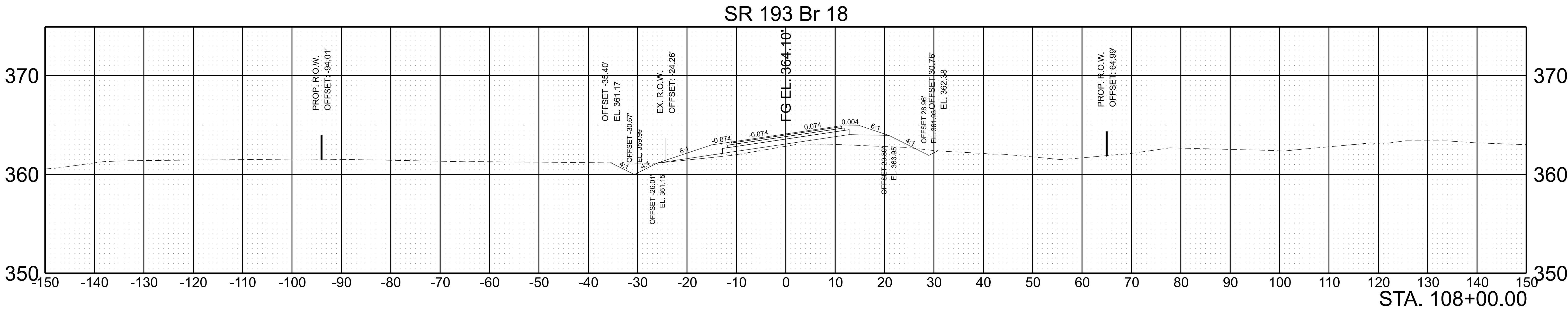
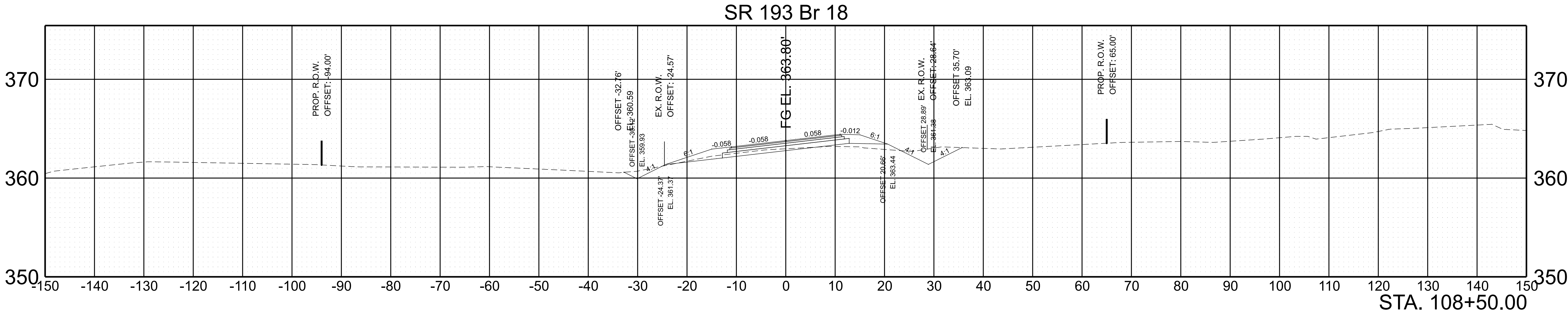
SR 193 Br 18



SCALE: 1"=10' HORIZ.
1"=5' VERT.

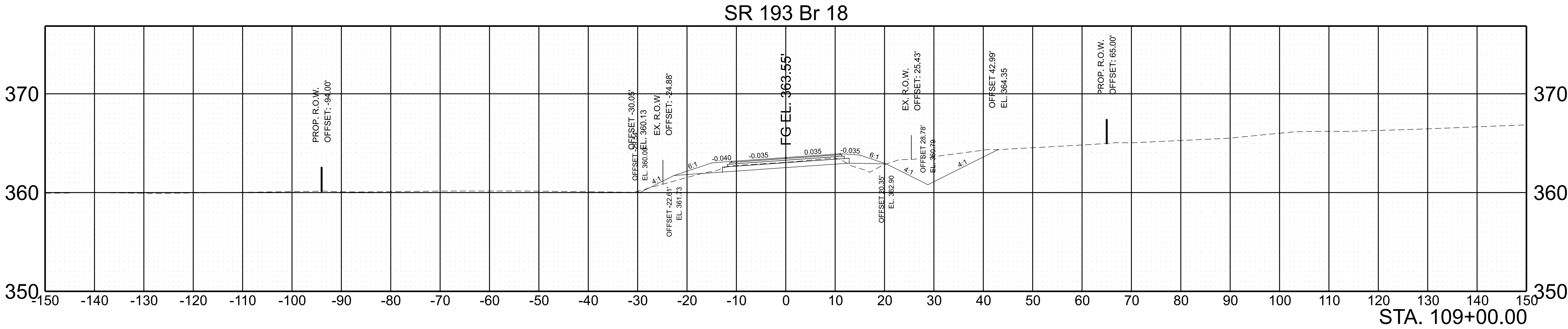
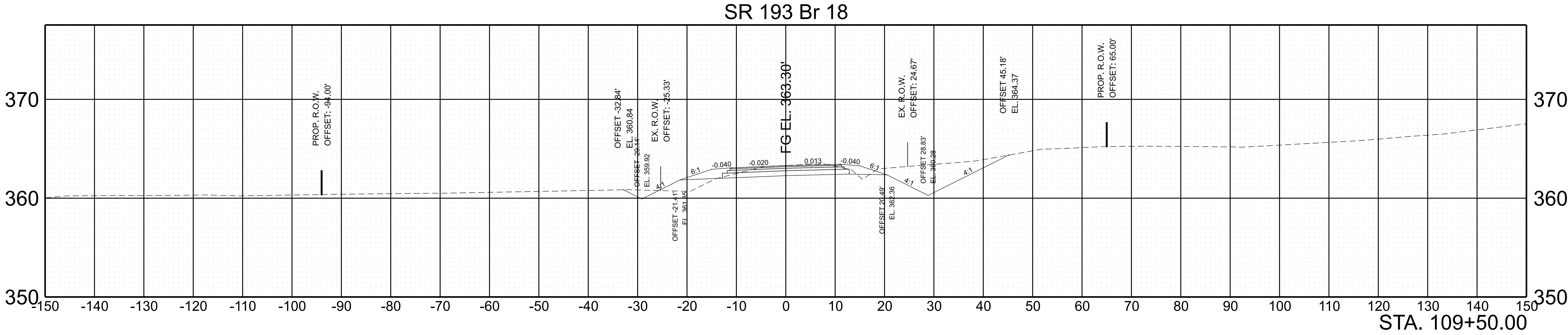
BEGIN STA. 105+00.00
END STA. 105+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	14



SCALE: 1"=10' HORIZ.	BEGIN STA. 108+00.00
1"=5' VERT.	END STA. 108+50.00

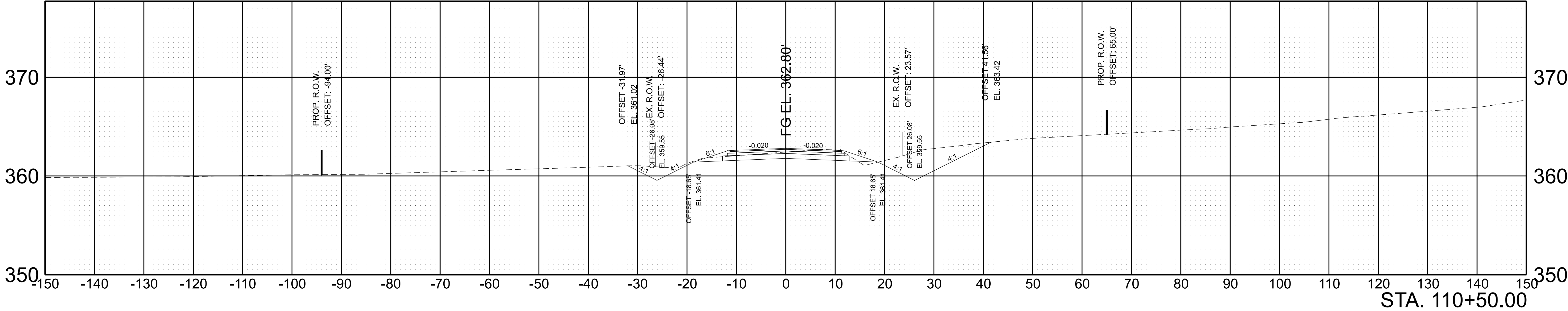
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	15



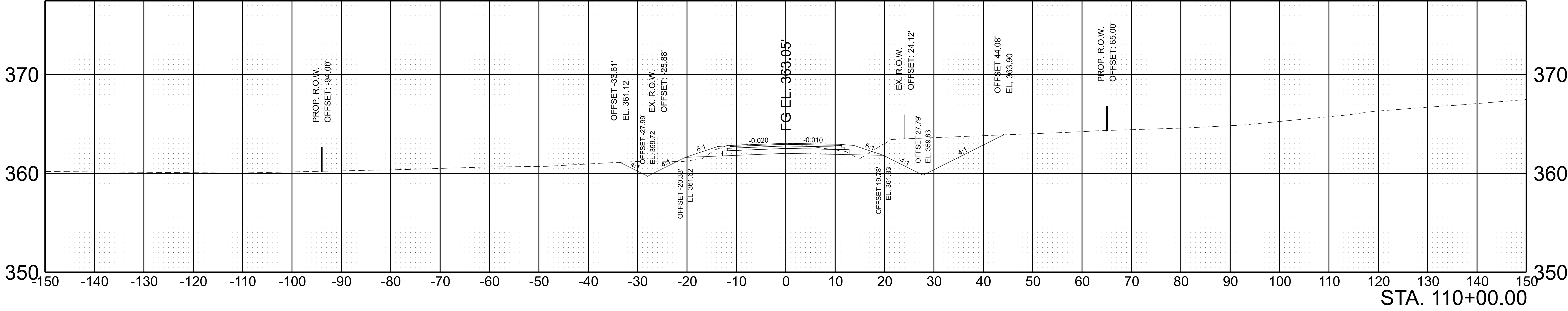
SCALE:	1"=10' HORIZ.	BEGIN STA. 109+00.00
	1"=5' VERT.	END STA. 109+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	16

SR 193 Br 18

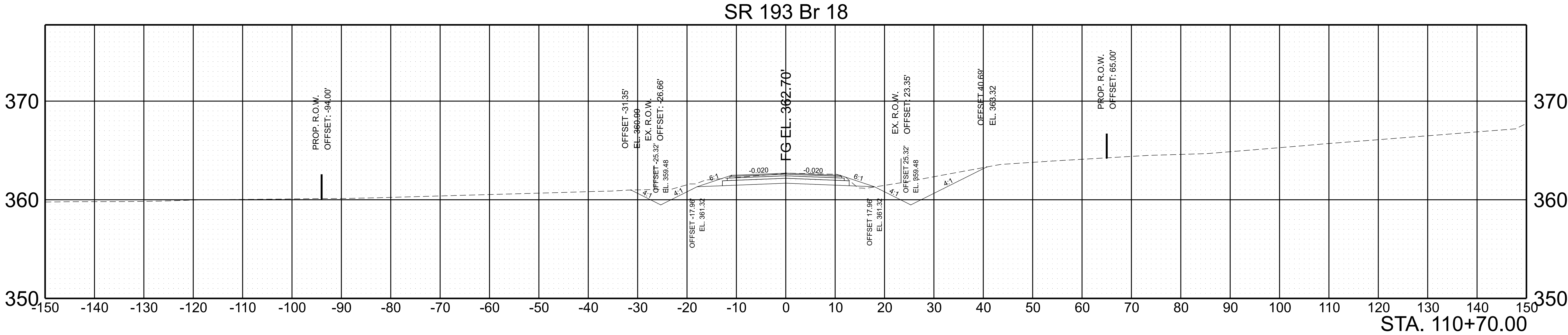


SR 193 Br 18



SCALE: 1"=10' HORIZ. 1"=5' VERT.	BEGIN STA. 110+00.00 END STA. 110+50.00
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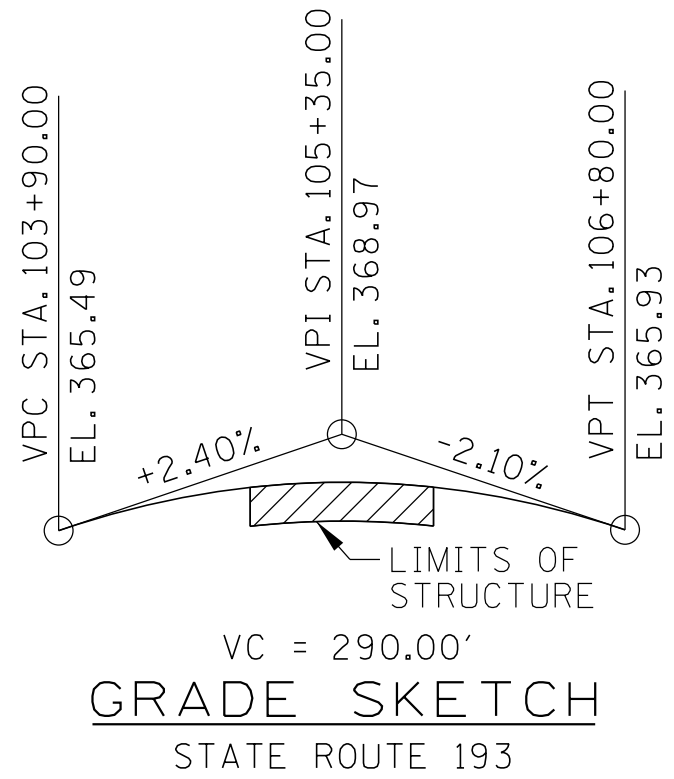
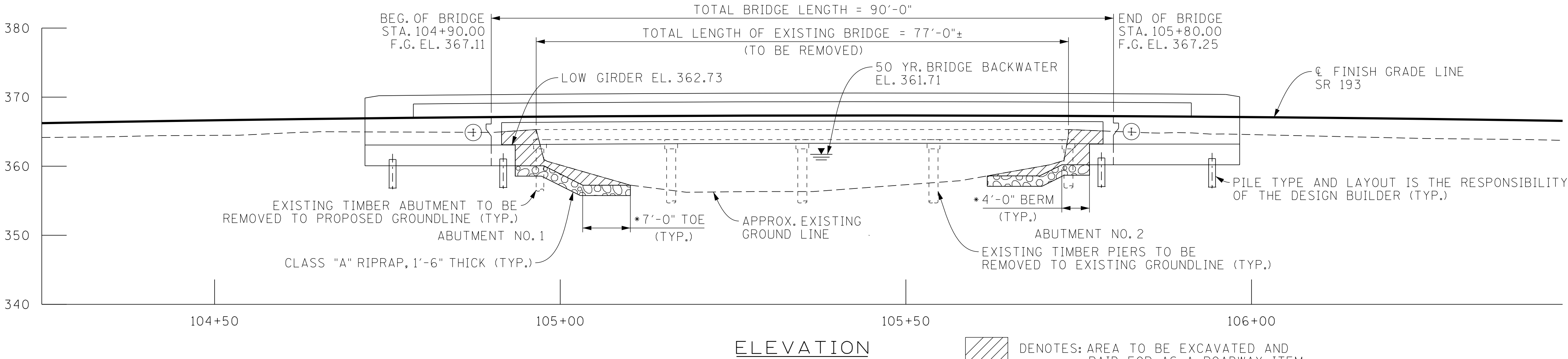
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	24S193-S1-004	17



SCALE: 1"=10' HORIZ. 1"=5' VERT.	BEGIN STA. 110+70.00 END STA. 110+70.00
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CONST. NO.:

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

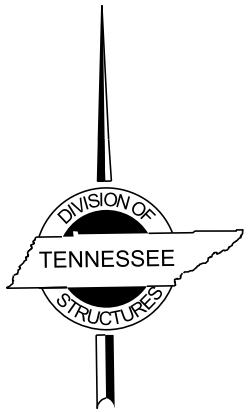


HYDRAULIC DATA

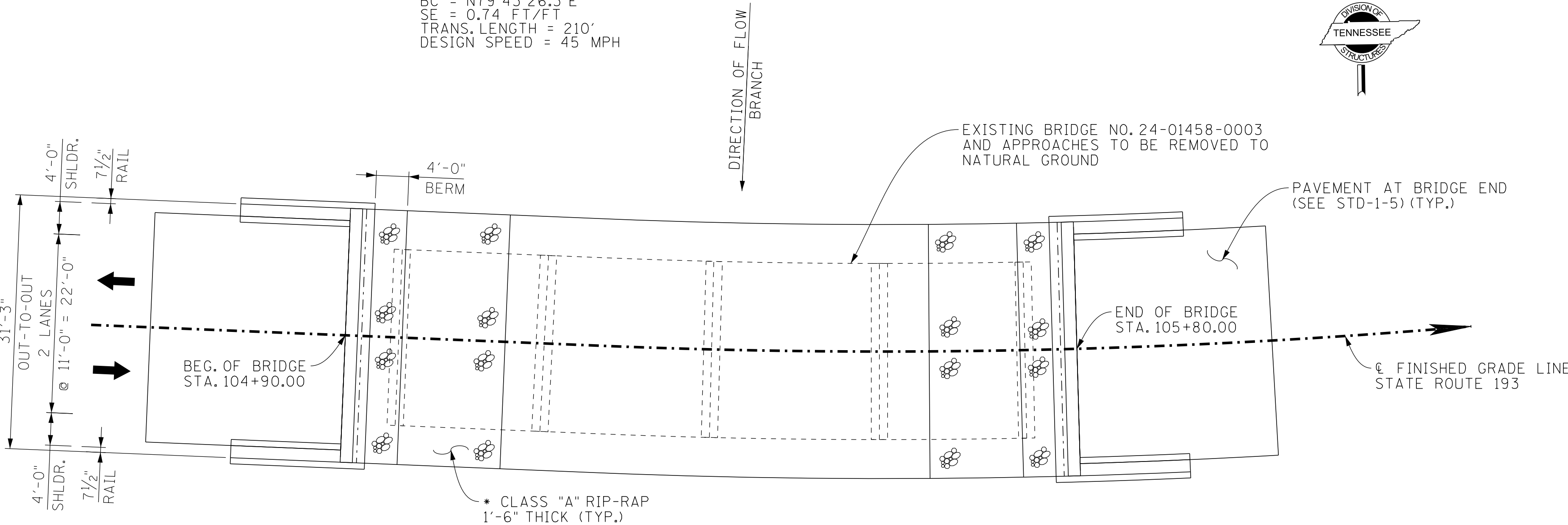
DRAINAGE AREA = 4.66 MI²
DESIGN DISCHARGE (50 YR.) = 2320 CFS
WATER AREA PROVIDED BELOW EL. 361.71 = 570.61 FT²
50 YR. VELOCITY = 4.32 FPS
50 YR. BRIDGE BACKWATER = 1.46 FT
ROADWAY OVERTOPPING EL. 364.66 FT.
100 YEAR DISCHARGE 2610 CFS @ EL. 362.72

CURVE DATA

PI STATION = 107+23.60
N COORDINATE = 315395.4205
E COORDINATE = 921103.4512
Δ = 26°53'47" LT
D = 06°46'50"
R = 845.00'
L = 396.67'
T = 202.06'
LC = 393.04,34'
BC = N79°43'26.3"E
SE = 0.74 FT/FT
TRANS. LENGTH = 210'
DESIGN SPEED = 45 MPH



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).



2049 AADT = 2,010
22'-0" ROADWAY,
4'-0" SHOULDER EACH SIDE,
AND STD-1-ISS PARAPET
DESIGN SPEED = 45 MPH

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**CONCEPTUAL LAYOUT
OF BRIDGE
S.R. 193 OVER BRANCH
BRIDGE I.D. NO. 24014580003
STATION 105+35.00
LOG MILE 7.71
FAYETTE COUNTY
2026**

Plan 1

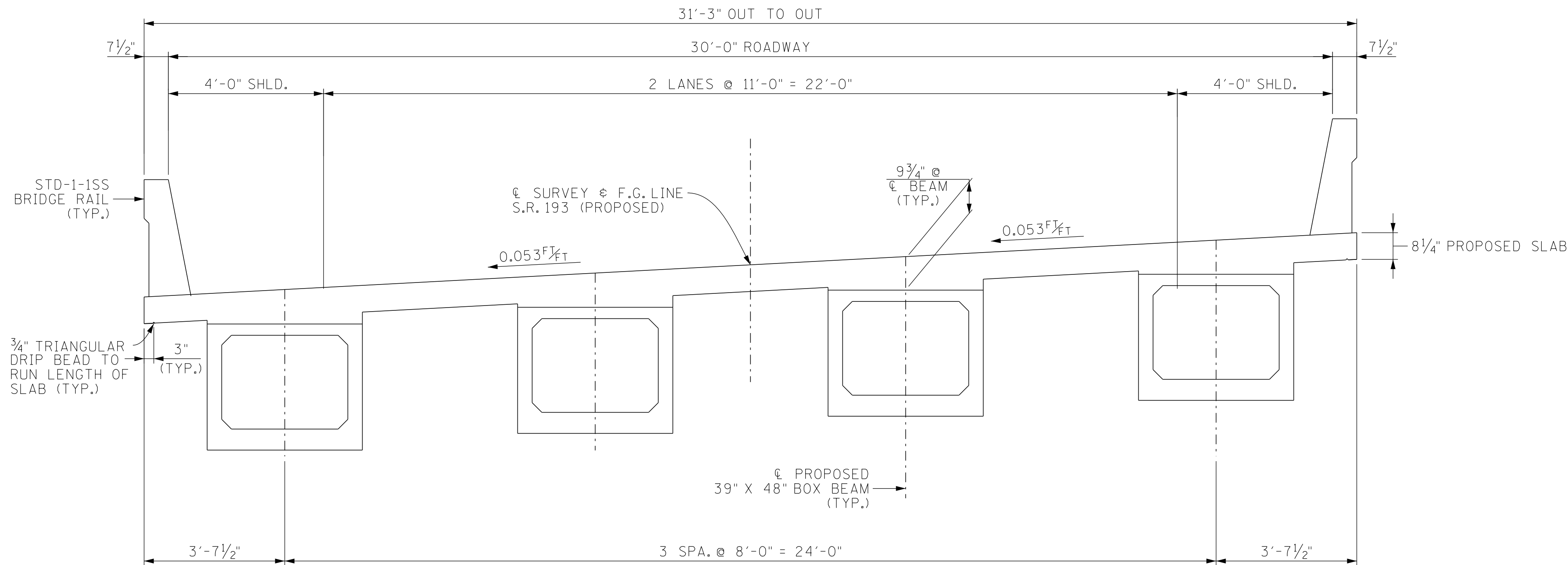
PIN NO.: 137109.02
DESIGN BY: T. LINVILLE DATE: 05/2026
DRAWN BY: T. THOMAS DATE: 05/2026
SUPERVISED BY: G. LIPTAK DATE: 05/2026
CHECKED BY: D. BOSSE DATE: 05/2026

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

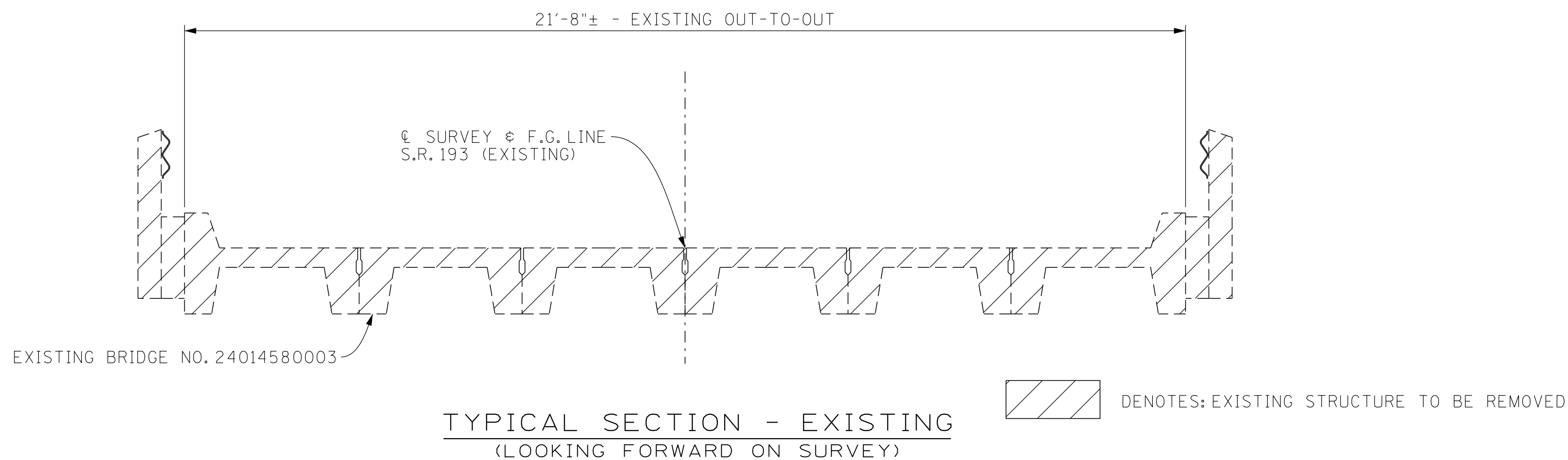
NOTE: EXISTING UTILITY LOCATIONS ARE NOT SHOWN AS THESE WERE NOT CAPTURED IN THE LIDAR SURVEY. DESIGN BUILDER IS RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN CONSTRUCTION LIMITS

NOTE: ALL HYDRAULIC INFORMATION SHOWN HEREIN IS FOR PRELIMINARY INFORMATION ONLY. DESIGN BUILDER IS RESPONSIBLE FOR FINAL HYDRAULIC ANALYSIS AND CONFIRMING THAT ALL HYDRAULIC CRITERIA CAN BE MET.

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



TYPICAL SECTION - PROPOSED
(LOOKING FORWARD ON SURVEY)



TYPICAL SECTION - EXISTING
(LOOKING FORWARD ON SURVEY)

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 "___" WITH AS = ___, SDS = ___, SD1 = ___. (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 39"x48" PRESTRESSED BOX BEAMS WITH COMPOSITE CONCRETE SLAB.
- CONCRETE; CLASS A F'C=3000, CLASS D F'C=4000 PSI FOR BRIDGE DECK
- BEAM CONCRETE; CLASS A F'CI=XXXX PSI, CLASS A F'C=XXXX 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-ISS PARAPETS
- TEXTURE COATING; TO BE GRAY (36440) EXCEPT ENTIRE PARAPET TO BE WHITE (37886).
- EXCAVATION; TO BE BASED ON EXISTING GROUND AT ABUTMENTS
- FLUMES AT BRIDGE TO BE DETERMINED BY THE DESIGN BUILD TEAM.
- BRIDGE DECK DRAINS TO BE DETERMINED BY THE DESIGN BUILD TEAM.
- EXISTING BRIDGE DESCRIPTION; 4 SPAN AT 77'-0" SIMPLY SUPPORTED CONCRETE CHANNEL BEAM TIMBER BRIDGE WITH A 21'-7" OUT-TO-OUT WIDTH.
- ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST 1/8" UNDER TOTAL DEAD LOAD.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL TYPICAL CROSS-SECTION
S.R. 193 OVER BRANCH
BRIDGE I.D. NO. 24014580003
STATION 105+35.00
LOG MILE 7.71
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