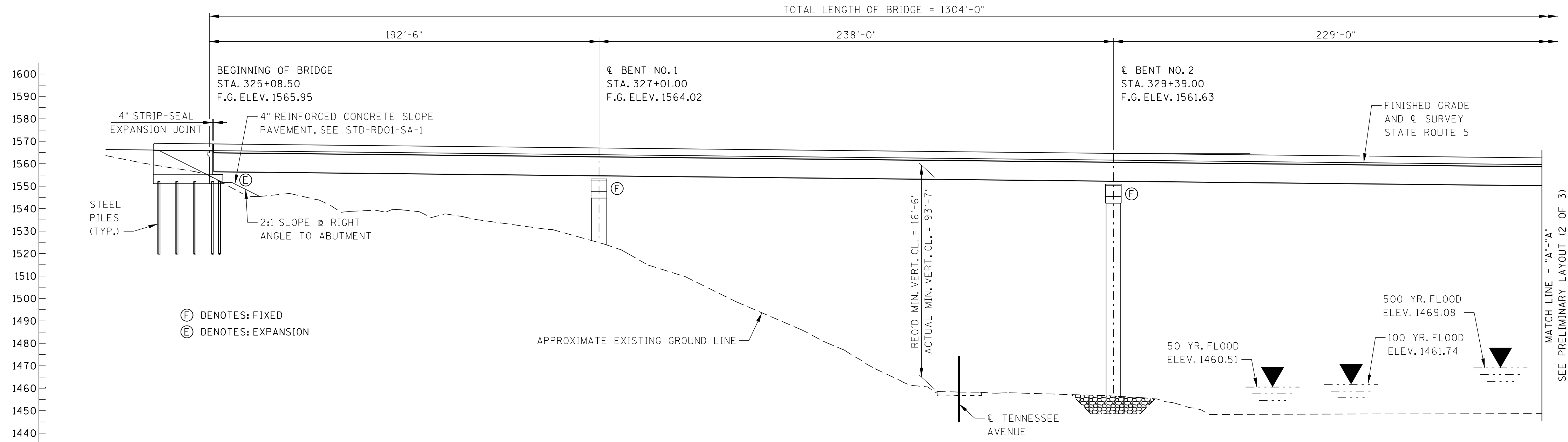


TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	2023	70S005	B-1

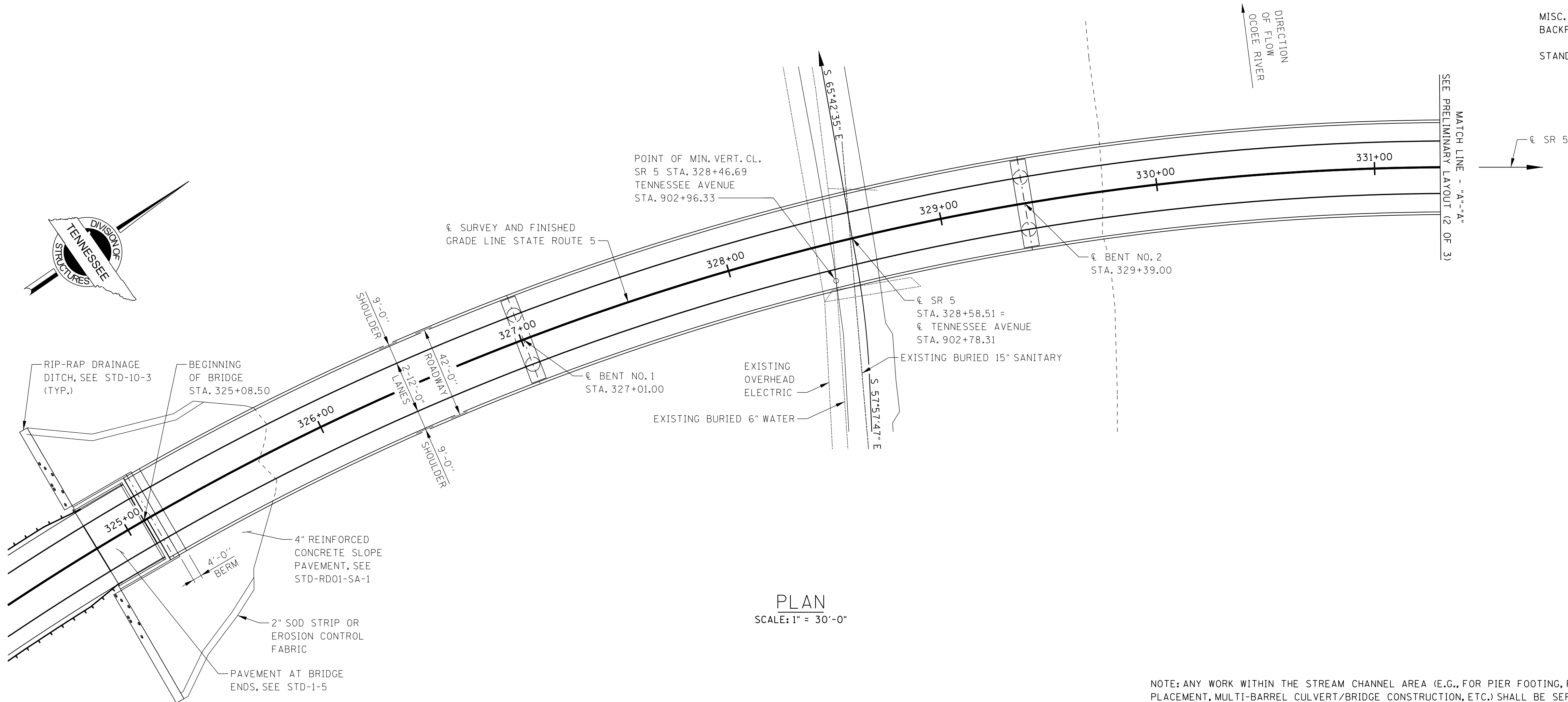


ELEVATION

SCALE: 1" = 30'-0"
NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.
DIMENSIONS MAY NOT BE THE SAME AS THE NOTED SCALE.

LIST OF STANDARD DRAWINGS

TITLE	DWG. NO.	LAST REV. DATE
SLOPE PROTECTION	RD01-SA-1	10-15-02
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET	STD-1-ISS	05-10-21
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-2-SS	05-10-21
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	03-01-22
STRIPSEAL EXPANSION JOINT	STD-3-1	11-01-10
STRIPSEAL EXPANSION JOINT	STD-3-2	11-01-10
STANDARD PILE DETAILS	STD-5-1	10-25-93
STANDARD PILE DETAILS	STD-5-2	05-01-14
STANDARD SEISMIC DETAILS	STD-6-1	11-01-10
STANDARD SEISMIC DETAILS	STD-6-2	11-07-94
STANDARD PROTECTIVE FENCE DETAILS	STD-8-5	05-10-21
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	STD-10-1	03-01-22
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	03-01-22
STANDARD FLUME DETAILS	STD-10-3	03-01-22



PLAN

SCALE: 1" = 30'-0"

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, 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.

SEALED BY

2044 ADT = 10,650
40'-10" ROADWAY WITH STD-1-ISS PARAPETS
DESIGN SPEED = 45 MPH
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY LAYOUT
STATE ROUTE 5 OVER TENNESSEE AVENUE
OCOEE RIVER, TENNESSEE OVERHILL RAILROAD
AND STATE ROUTE 68
BRIDGE I.D. NO. XXXXXXXXX
STATION 331+60.50
LOG MILE XXXXXXXX
POLK COUNTY TN., FANNIN COUNTY GA.
2023

PIN NO.: 125101.00
DESIGN BY: B. WEAVER DATE: 01/30/2023
DRAWN BY: C. MARANGIELLO DATE: 01/30/2023
SUPERVISED BY: V. BRIDGES DATE: 01/30/2023
CHECKED BY: D. MARISCAL DATE: 01/30/2023

MACHINED RIP-RAP CLASS XX = XXX TONS

HYDRAULIC DATA

DRAINAGE AREA = 352 MI.²
DESIGN DISCHARGE (100 YR.) = 37,600 CFS
WATER AREA PROVIDED BELOW EL.1461.74 = 4,495 FT.²
100 YR. VELOCITY = 8.37 FPS
100 YR. BRIDGE BACKWATER = 0.03 FT. @ EL.1461.74
ROADWAY OVERTOPPING EL. = 1548.78 FT.
500 YR. DISCHARGE 79,300 CFS @ EL.1469.08

GENERAL NOTES

- 1) CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION).
- 2) DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
- 3) LOADING:
A. HL-93 LIVE LOADING
B. SEISMIC DESIGN CATEGORY "A" WITH A_s = 0.164, S_{DS} = 0.305, S_m = 0.115, (1000 YEAR RETURN PERIOD).
C. DEAD LOAD INCLUDES 35 LB/SQ.FT. FOR FUTURE WEARING SURFACE.
- 4) SUPERSTRUCTURE: TO CONSIST OF 6 SPANS (TWO 3 SPAN UNITS) OF CONTINUOUS STEEL WELDED PLATE GIRDERS (99" WEB) WITH COMPOSITE CONCRETE SLAB.
- 5) CONCRETE: CLASS "A" f'c = 3000 PSI, CLASS "D" f'c = 4000 PSI FOR BRIDGE DECK.
- 6) REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.
- 7) BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
- 8) USE STD-1-1SS PARAPETS.
- 9) TEXTURE COATING: TO BE GRAY (36440) EXCEPT ENTIRE PARAPET TO BE WHITE (37886).
- 10) GRADING: TO BE BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT BENTS.
- 11) 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.
- 12) REINFORCED CONCRETE SLOPE PAVING SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 709-04, C.Y.
- 13) FLUMES AT BRIDGE ENDS ARE REQUIRED.
- 14) BRIDGE DECK DRAINS ARE NOT REQUIRED.

CURVE DATA

(TENNESSEE AVENUE)
P.I. 903+17.13
N 1,815,703.40
E 2,233,520.13
Δ 07°44'48" (RT.)
D 14°19'26"
R 400.00'
L 54.08'
T 27.08'
DESIGN SPEED 25 MPH

CURVE DATA

(STATE ROUTE 5)
P.I. 325+33.76
N 1,815,320.35
E 2,233,171.84
Δ 66°16'46" (RT.)
D 04°46'29"
R 1,200.00'
L 1,388.15'
T 783.45'
SE 0.044 FT./FT.
DESIGN SPEED 35 MPH

CURVE DATA

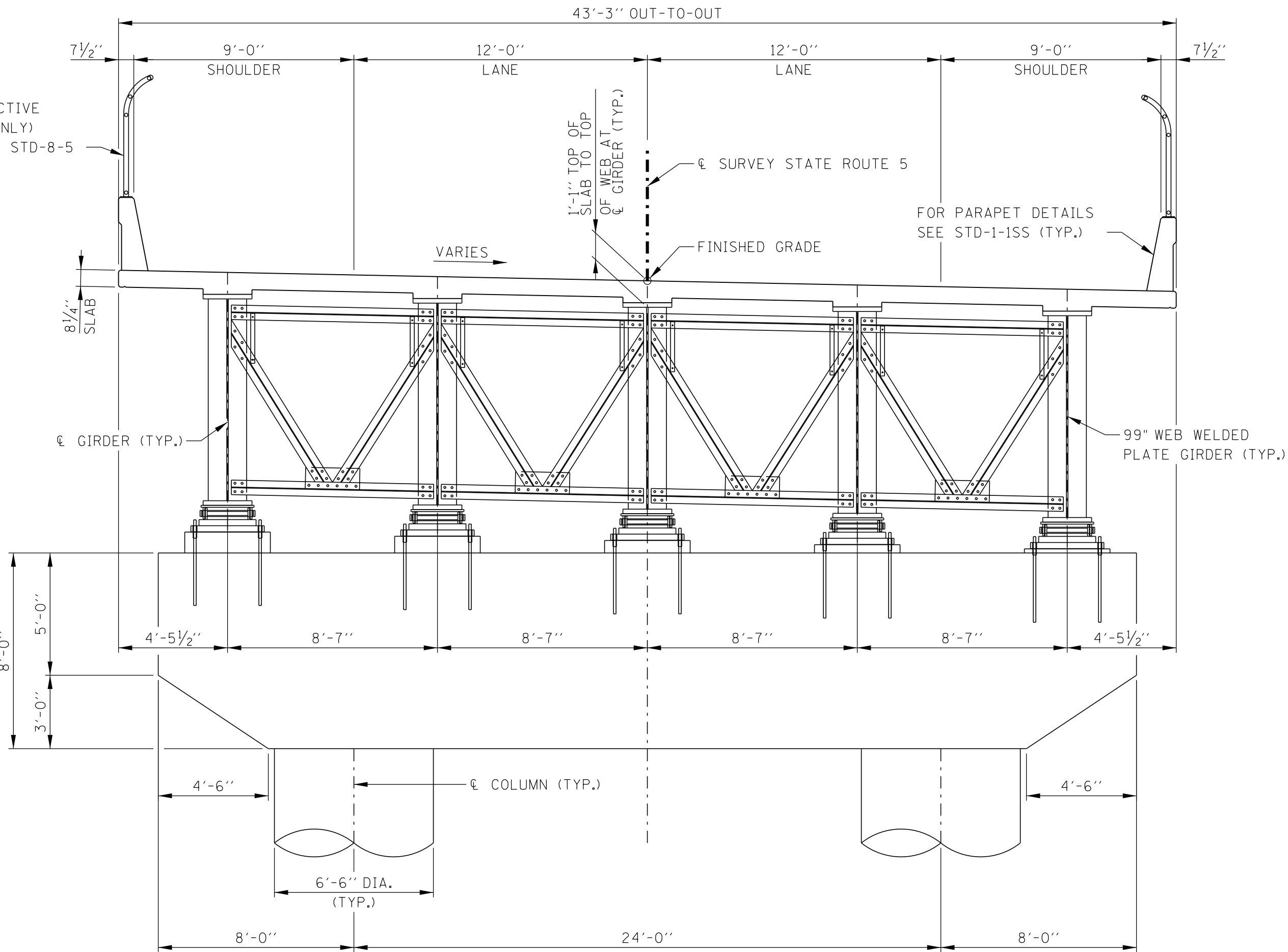
(RAILROAD SERVICE ROAD)
P.I. 20+79.24
N 1,816,016.77
E 2,233,614.15
Δ 17°46'01" (LT.)
D 57°17'45"
R 100.00'
L 31.09'
T 15.63'
DESIGN SPEED 25 MPH

CURVE DATA

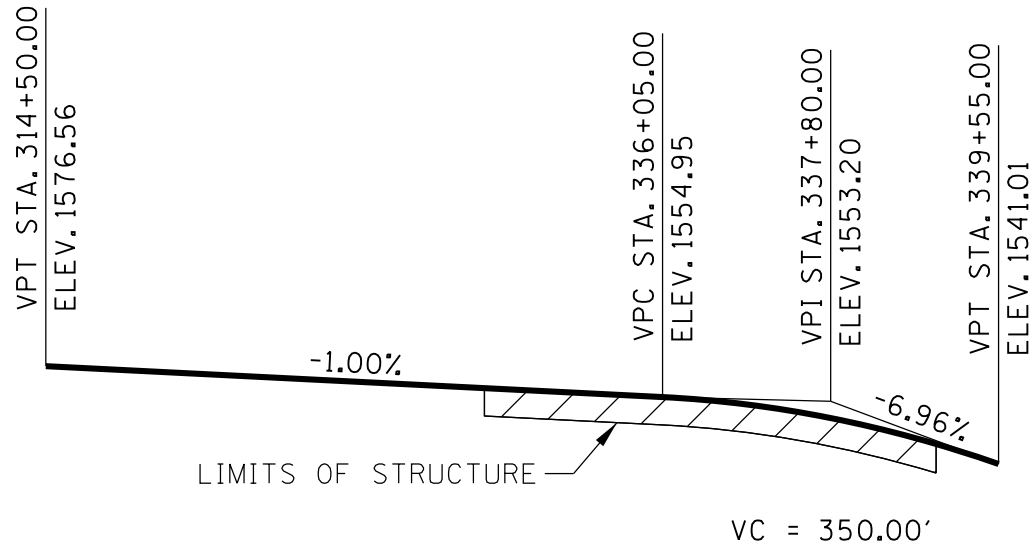
(RAILROAD SERVICE ROAD)
P.I. 21+34.18
N 1,815,985.56
E 2,233,659.67
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D 38°11'50"
R 150.00'
L 21.43'
T 70.73'
DESIGN SPEED 25 MPH

CURVE DATA

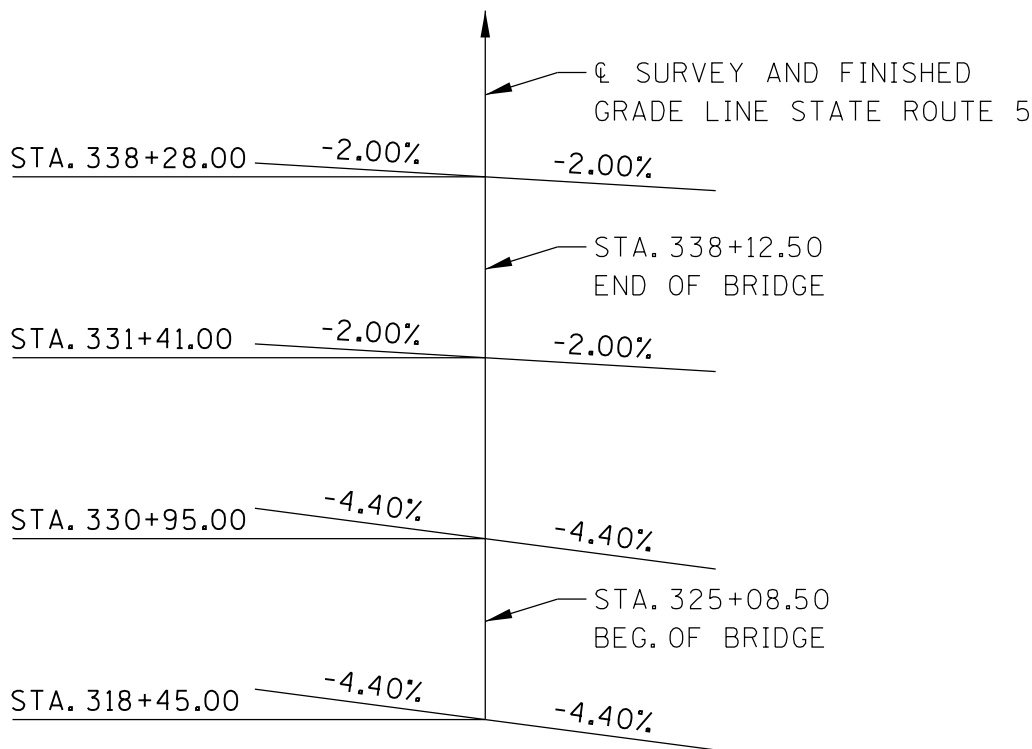
(BALTIC ST.)
P.I. 800+39.72
N 1,816,413.94
E 2,233,924.48
Δ 14°35'20" (LT.)
D 28°38'53"
R 200.00'
L 50.92'
T 25.60'



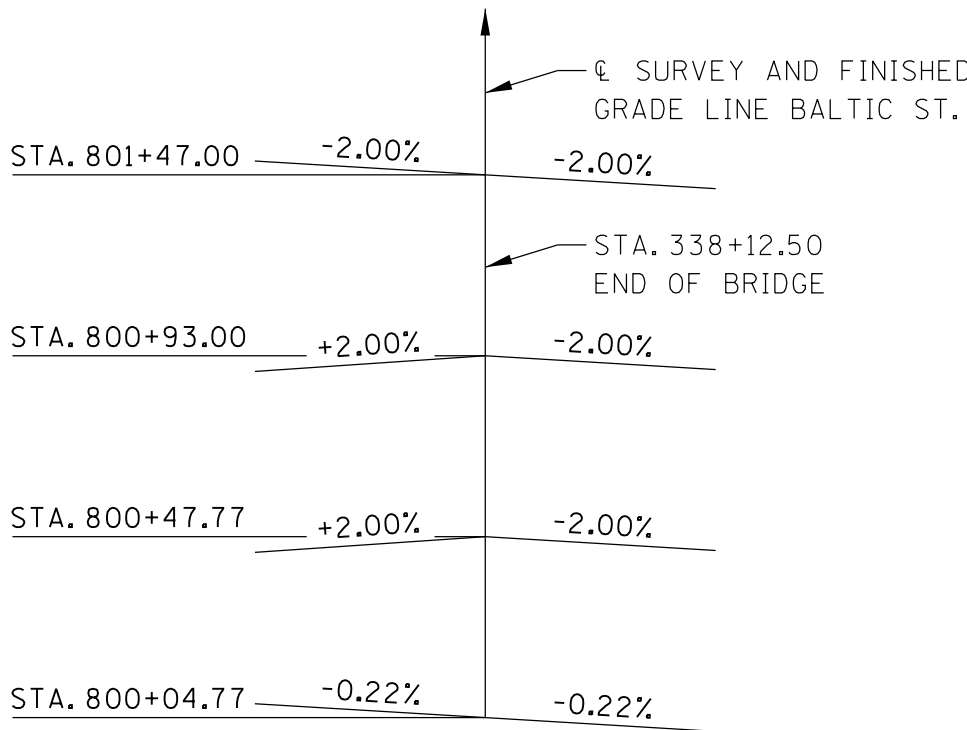
TYPICAL CROSS-SECTION
(LOOKING FORWARD ON SURVEY)



GRADE SKETCH
STATE ROUTE 5



TRANSITION SKETCH
STATE ROUTE 5



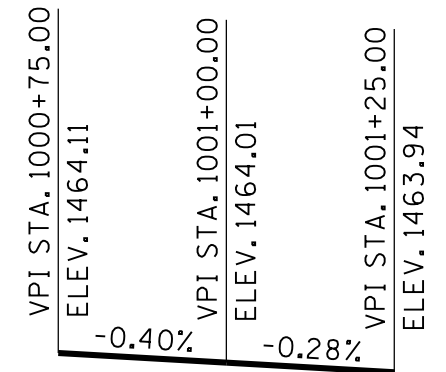
TRANSITION SKETCH
BALTIC ST.

GRADE SKETCH
RAILROAD SERVICE ROAD

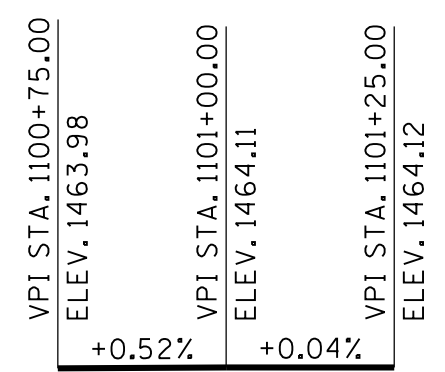
GRADE SKETCH
STATE ROUTE 68

GRADE SKETCH
BALTIC ST.

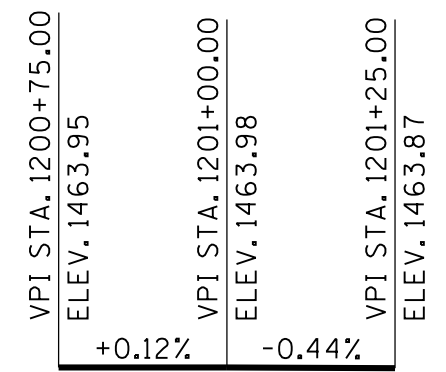
GRADE SKETCH
TENNESSEE AVENUE



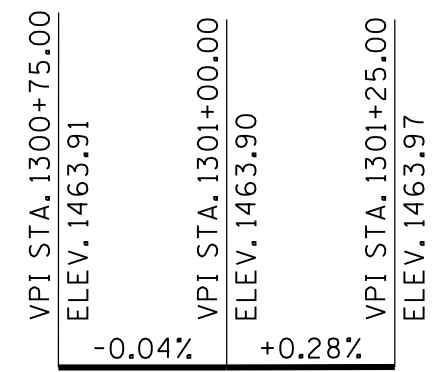
GRADE SKETCH
TRACK 1 - TOP OF RAIL



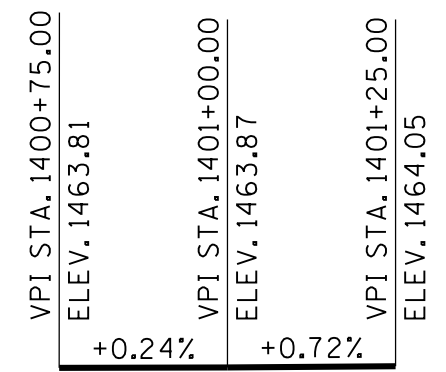
GRADE SKETCH
TRACK 2 - TOP OF RAIL



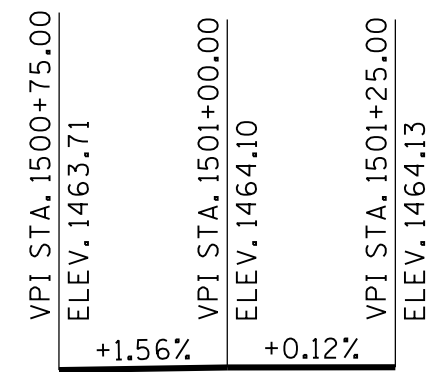
GRADE SKETCH
TRACK 3 - TOP OF RAIL



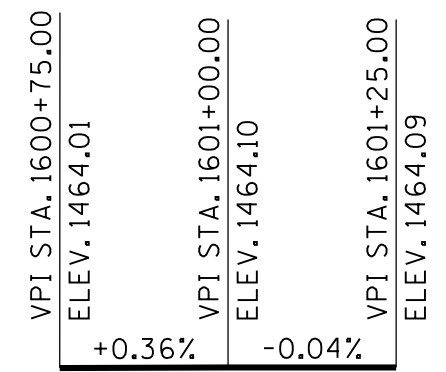
GRADE SKETCH
TRACK 4 - TOP OF RAIL



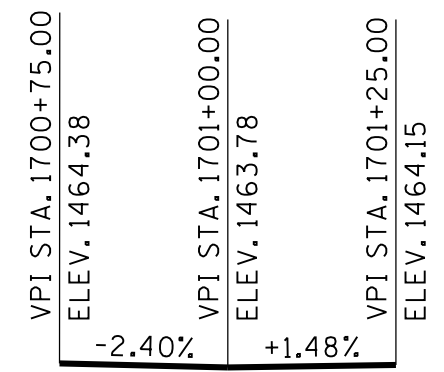
GRADE SKETCH
TRACK 5 - TOP OF RAIL



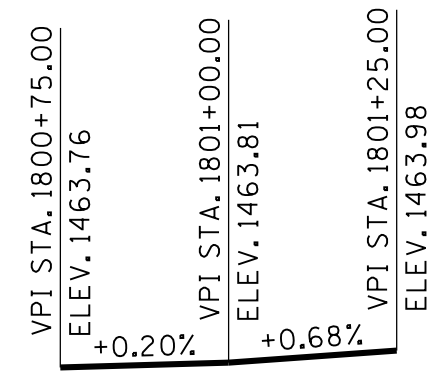
GRADE SKETCH
TRACK 6 - TOP OF RAIL



GRADE SKETCH
TRACK 7 - TOP OF RAIL



GRADE SKETCH
TRACK 8 - TOP OF RAIL



GRADE SKETCH
TRACK 9 - TOP OF RAIL

PIN NO.: 125101.00
DESIGN BY: B. WEAVER
DRAWN BY: C. MARANGIELLO
SUPERVISED BY: V. BRIDGES
CHECKED BY: D. MARISCAL

DATE: 01/30/2023
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