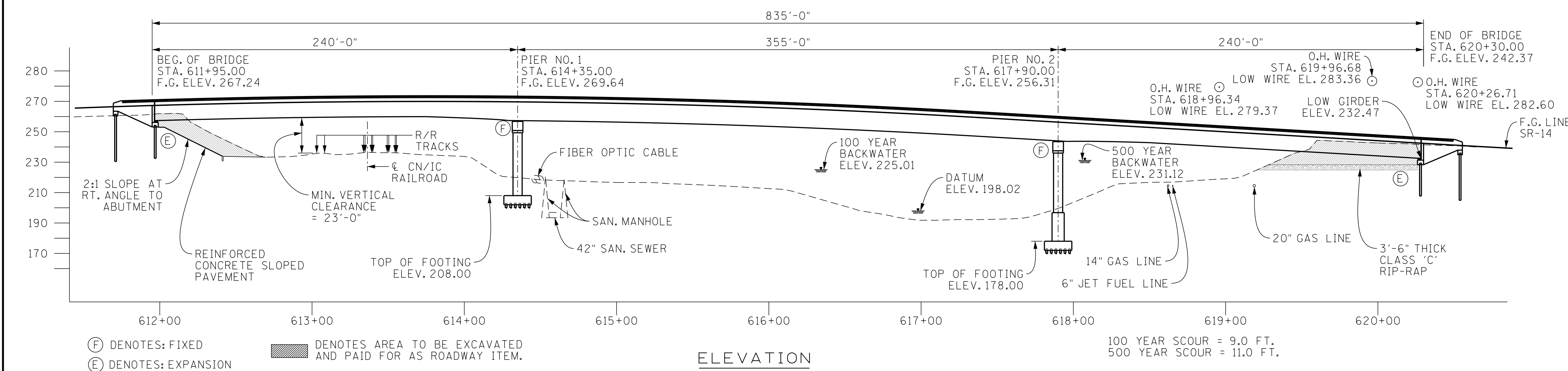
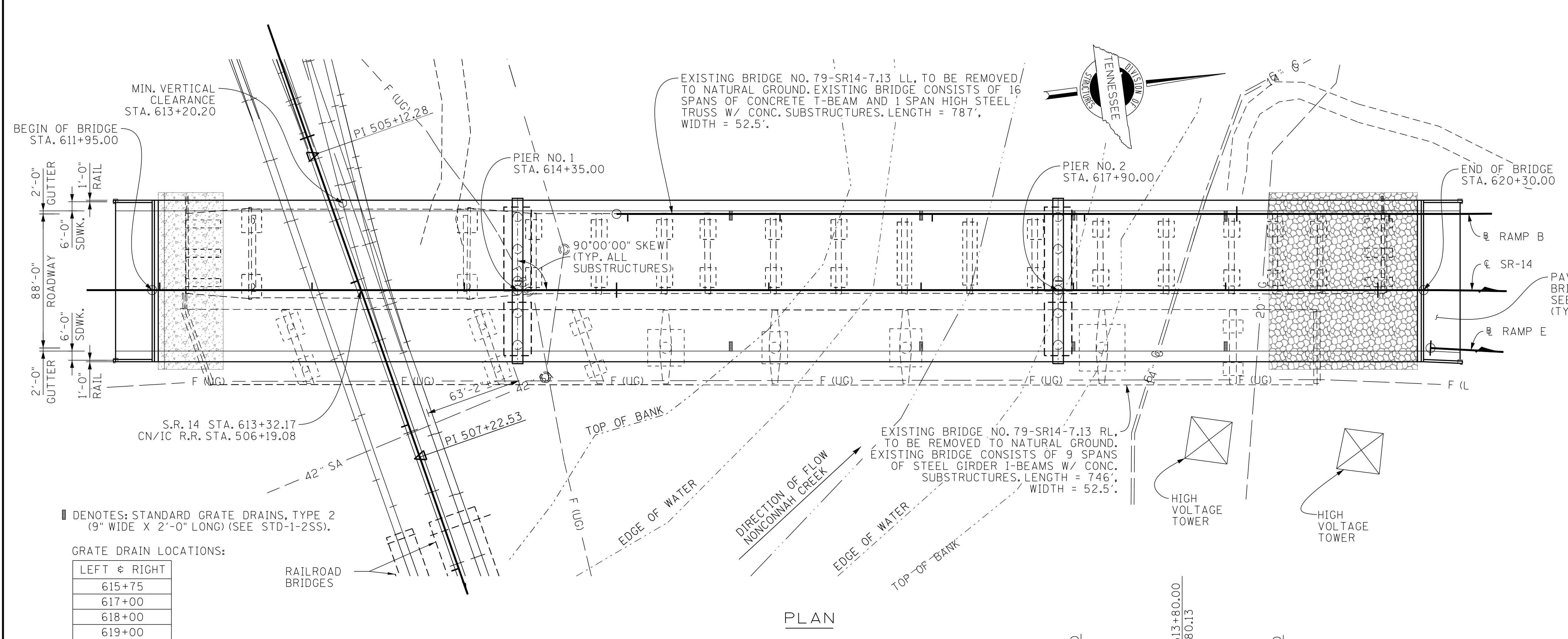


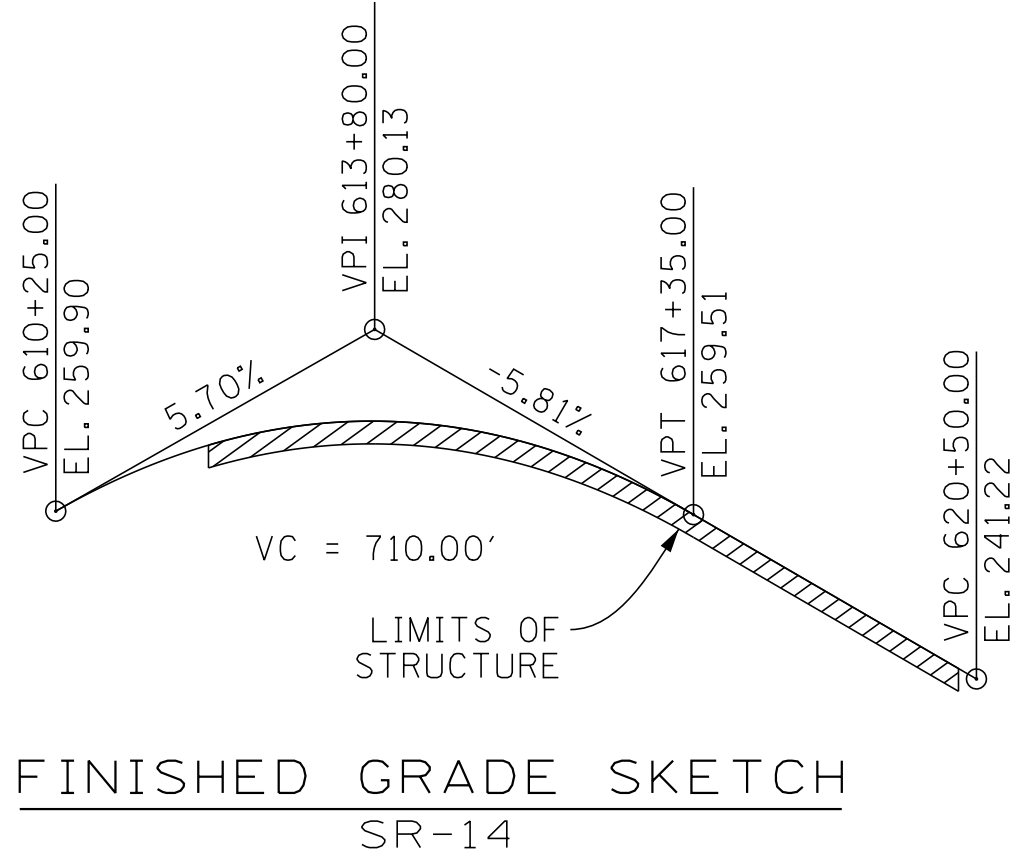
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PE. NO.: 79022-1227-94		
PROJECT NO.	YEAR	SHEET NO.
BR-NH-14(46)	2023	
REVISIONS		
NO.	DATE	BY
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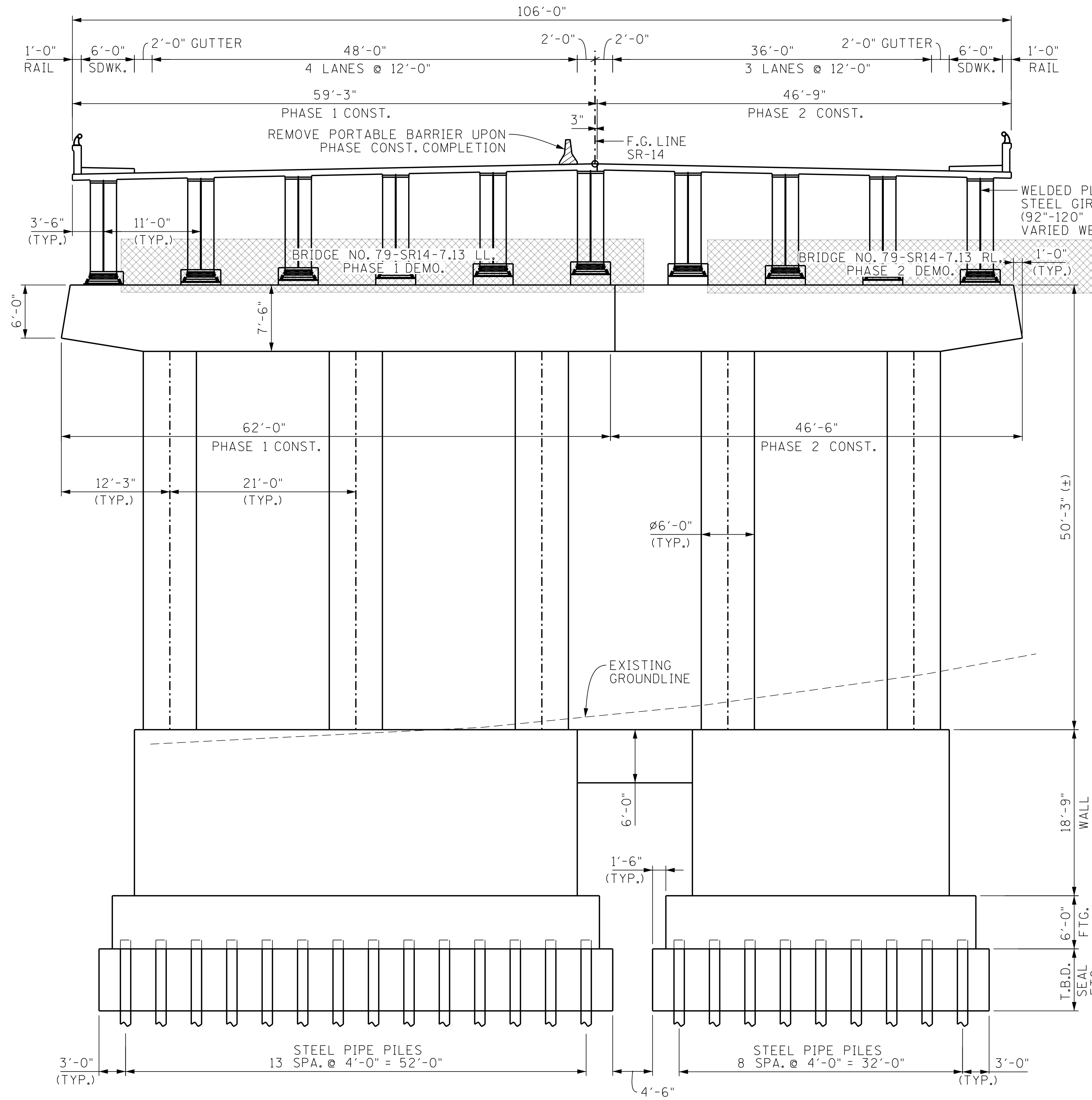
HYDRAULIC DATA
DRAINAGE AREA = 176.50 MI²
DESIGN DISCHARGE (100 YR.) = 46,347 CFS
WATER AREA PROVIDED BELOW EL. 225.01 = 7476.15 FT²
100 YR. VELOCITY = 6.21 FPS
100 YR. BRIDGE BACKWATER = 0.07 FT @ EL. 225.01 FT
ROADWAY OVERTOPPING EL. = 240.00 FT.
500 YR. BRIDGE BACKWATER = 0.03 FT @ EL. 231.12 FT



PIN NO.:	108883.00	DATE:	04/23
DESIGN BY:	J. SHOULDERS	DATE:	04/23
DRAWN BY:	J. SHOULDERS	DATE:	05/23
SUPERVISED BY:	D. SHIKE	DATE:	05/23
CHECKED BY:	D. SHIKE	DATE:	05/23

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PRELIMINARY LAYOUT
STATE ROUTE 14
OVER CN/IC RAILROAD
& NONCONNAH CREEK
BRIDGE ID NO. 79SR0140005
STA. 616+12.50
SHELBY COUNTY
2023

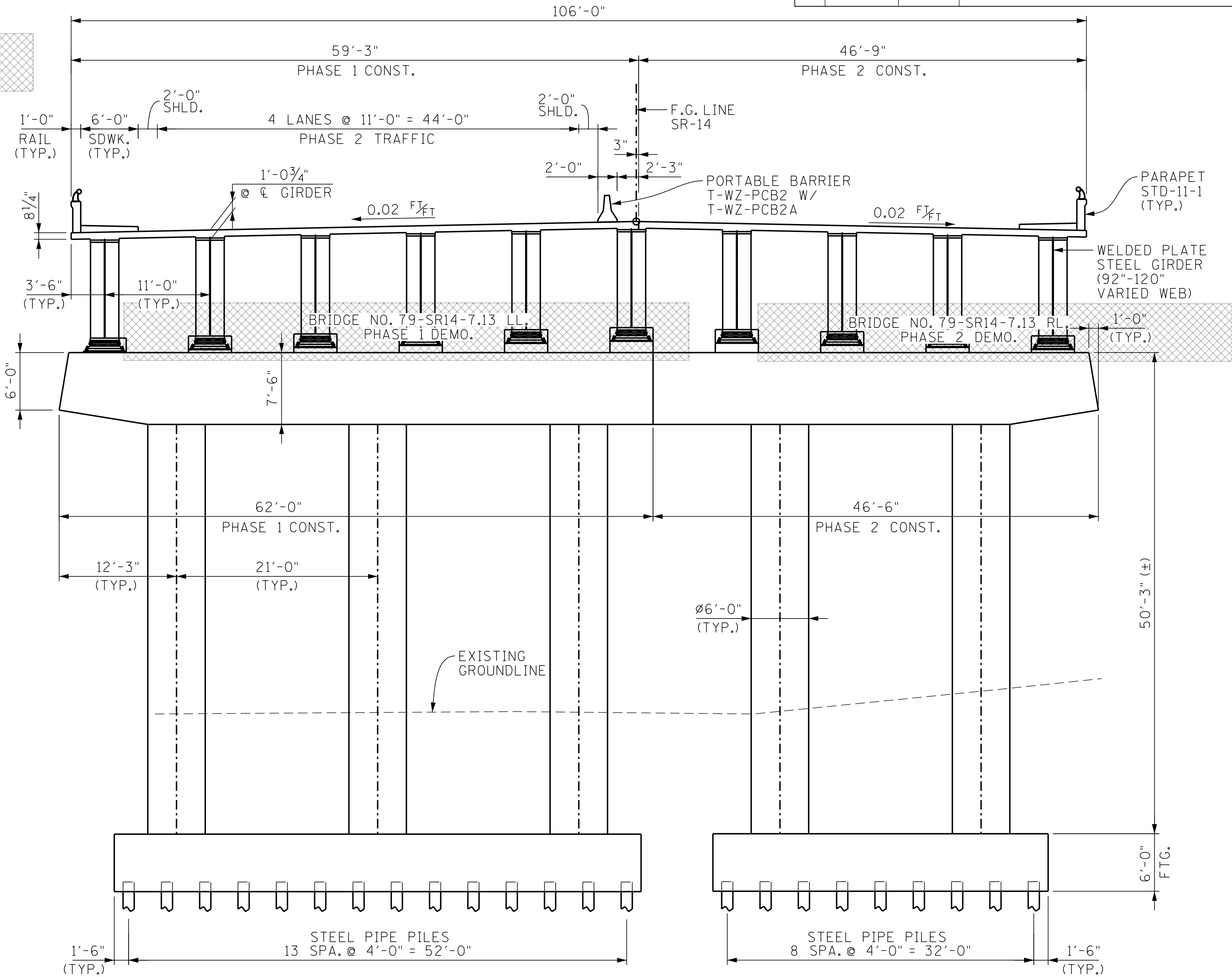
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TYPICAL SECTION @ PIER 2
(SHOWING PHASE CONSTRUCTION AND FINAL TRAFFIC)

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; HL-93 LIVE LOADING; SEISMIC CATEGORY "C" WITH $AS = 0.407$, $SDS = 0.852$, $SD1 = 0.367$ (1000 YEAR RETURN PERIOD); DEAD LOADS TO INCLUDE 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.
- 4) SUPERSTRUCTURE; TO CONSIST OF 3 SPANS CONTINUOUS STEEL WELDED PLATE GIRDERS (92"-120" WEB) WITH COMPOSITE CONCRETE SLAB.
- 5) CONCRETE; CLASS A $F'c = 3000$ PSI, CLASS DS $F'c = 4000$ 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-11-1 FOR PARAPETS.
- 9) TEXTURE COATING; TO BE GRAY (36440) EXCEPT ENTIRE PARAPET TO BE WHITE (37886).



TYPICAL SECTION @ PIER 1
(SHOWING PHASE CONSTRUCTION AND PHASE 2 TRAFFIC)

PE. NO.: 79022-1227-94			
PROJECT NO.		YEAR	SHEET NO.
BR-NH-14(46)		2023	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PRELIMINARY SECTION
STATE ROUTE 14
OVER CN/IC RAILROAD
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