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BARGE DESIGN SOLUTIONS, INC.  
615 THIRD AVE. SOUTH, SUITE 700  
NASHVILLE, TN 37210  
KEVIN McALISTER, PE. NO. 110079

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN1
BRIDGE PLANS (1NB, 7, 9) .....	U-91-108, U-91-120, U-91-122, U-91-123, U-91-148, U-91-160, U-91-238, U-91-239, U-91-247, U-91-250, U-91-252

YEAR	PROJECT NO.	SHEET NO.
2020	IM/NH-757-1(131)	ROADWAY-SIGN1

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE  
SHEET

B:\2396\202008\36990800104\_CAD\TRNS\00REV SHEET 1.sht

12-17-2019  
SHEETS ADDED:  
REV1, 2D1, 2H, 2H1 - 2H3, U-91-42 - U-91-83, U-91-107 - U-91-188, U-91-238 - U-91-258

SHEET NO. 1A  
REV. 12-17-2019  
REVISED INDEX

SHEET NO. 2A  
REV. 12-17-2019  
REVISED EST. ROADWAY QUANTITY ITEMS:  
203-02.01, 209-09.43, 604-01.01, 604-01.02, 604-07.01, 604-07.03, 604-07.04, 607-03.02, 607-03.04, 607-05.02, 607-06.02, 607-10.02, 611-07.01, 611-07.02, 611-07.55, & 611-31.02;  
REMOVED ITEM NO. 611-31.04  
ADDED ITEM NO. 606-02.03.

SHEET NO. 2A1  
REV. 12-17-2019  
REVISED EST. ROADWAY QUANTITY ITEMS:  
611-46.02, 709-05.06 & 709-05.08.  
REMOVED ITEM 611-52.02

SHEET NO. 2A2  
REV. 12-17-2019  
REVISED EST. ROADWAY QUANTITY ITEMS:  
740-10.04 & 801-01.35.  
ADDED ITEM NO. 801-01.36  
ADDED FOOTNOTES NOS. 36, 37, 38  
39 & 40.

SHEET NO. 2E4  
REV. 12-17-2019  
REVISED CB-3B,  
CB-4, CB-21, AND CB-23  
REMOVED CB-2 & CB-7  
REMOVED ITEM NOS. 611-31.04 & 611-52.02

SHEET NO. 2E5  
REV. 12-17-2019  
REVISED CULVERTS INFORMATION  
BETWEEN CB-3B THROUGH CB-5;  
ADDED CULVERT 1B TO 1C, REMOVED PIPE FROM 7B TO 7C

SHEET NO. 2E6  
REV. 12-17-2019  
ADDED ENDWALL 1C;  
ADDED RIP-RAP FOR EW-1C, REMOVED ENDWALL 7C

SHEET NO. 9A  
REV. 12-17-2019  
REVISED GRADED SOLID ROCK AND CLASS "B" RIP-RAP LIMITS AT  
BRIDGE NOS. 7, 1SB, 1NB, 8, & 10  
NOTE ADDED TO SHEET TO SEE BRIDGE SHEETS FOR RIP-RAP  
AND GRADED SOLID ROCK LOCATIONS.  
REVISED RETAINING WALL 2-1.

SHEET NO. 10A  
REV. 12-17-2019:  
REVISED RETAINING WALL NOS. 2-1, 3-1, & 3-4.  
REMOVED CB-7B, CULVERT BETWEEN 7B & 7C,  
& AND ENDWALL 7-C FROM PLANS

SHEET NO. 10B  
REV. 12-17-2019:  
REMOVED DRAINAGE STRUCTURES 7B & 7C

SHEET NO. 11A  
REV. 12-17-2019  
REVISED WALL 3-4 & ADDED RELIEF SLAB  
OVER 54" RCP NEAR CB19;  
REVISED RCP SIZES BETWEEN CB- 4 & CB-5.

SHEET NO. 11B  
REV. 12-17-2019: REVISED STRM. DRAINAGE  
FROM CB-5 TO CB-23

SHEET NO. 11C  
REV. 12-17-2019: REVISED STRM. DRAINAGE  
FROM CB-5 TO CB-23

SHEET NO. 12A  
REV. 12-17-2019:  
REVISED CB-3C, CB-3, CB-3A, CB-3B;  
REMOVED CB-2 AND CULVERTS;  
ADDED ENDWALL 1C,  
A CULVERT FROM 1B TO 1C,  
AND RIP-RAP FOR EW-1C.  
REVISED CLASS "B" RIP-RAP  
LIMITS AT BRIDGE NO. 4.

SHEET NO. 12B  
REV. 12-17-2019:  
REVISED CB-3C, CB-3, CB-3A, CB-3B;  
DELETED CB-2 AND CULVERTS;  
ADDED ENDWALL 1C,  
A CULVERT FROM 1B TO 1C,  
AND RIP-RAP FOR EW-1C.

SHEET NO. 13A  
REV. 12-17-2019:  
REVISED CLASS "B" RIP-RAP  
LIMITS AT BRIDGE NO. 4.

SHEET NO. 19  
REV. 12-17-2019:  
REVISED ELEVATION LABEL AT STA. 205+00.

SHEET NO. 21  
REV. 12-17-2019:  
REVISED ELEVATION LABEL AT STA. 237+00.

SHEET NO. 22  
REV. 12-17-2019:  
REVISED ELEVATION LABEL AT STA. 243+50.

SHEET NO. 48  
REV. 12-17-2019:  
REVISED ITEM NO. 209-09.43.

SHEET NO. 50H  
REV. 12-17-2019:  
REMOVED DRAINAGE STRUCTURE CB-2

SHEET NO. 51F  
REV. 12-17-2019:  
REMOVED DRAINAGE STRUCTURES 7B & 7C.

SHEET NO. 51H  
REV. 12-17-2019:  
REMOVED DRAINAGE STRUCTURE CB-2.

SHEET NO. 52F  
REV. 12-17-2019:  
REMOVED DRAINAGE STRUCTURES 7B & 7C.

SHEET NO. 100  
REV. 12-17-2019:  
ADJUSTED CROSS SECTIONS TO  
MATCH SE TRANSITION SHOWN ON PROFILE.

SHEET NO. 101  
REV. 12-17-2019:  
ADJUSTED CROSS SECTIONS TO  
MATCH SE TRANSITION SHOWN ON PROFILE.

SHEET NO. 124  
REV. 12-17-2019  
REVISED TO SHOW BRIDGE APPROACH SLAB CROSS SLOPES.

SHEET NO. 129  
REV. 12-17-2019  
REVISED SECTIONS 373+50 THRU 375+00 TO REFLECT  
CHANGES IN WALL 2-1.

SHEET NO. 130  
REV. 12-17-2019  
REVISED SECTIONS 373+50 THRU 375+00 TO REFLECT  
CHANGES IN WALL 2-1.

SHEET NO. 133  
REV. 12-17-2019  
SECTIONS 379+50, 380+00, AND 380+50 REVISED.

SHEET NO. 145  
REV. 12-17-2019  
REVISED TO SHOW PROPER  
LOCATION FOR LANE BREAK.

SHEET NO. 146  
REV. 12-17-2019  
REVISED TO SHOW PROPER  
LOCATION FOR LANE BREAK.

SHEET NO. 254  
REV. 12-17-2019  
REVISED TO SHOW BRIDGE APPROACH SLAB CROSS SLOPES.

SHEETS 281-292  
REV. 12-17-2019  
REVISED CROSS SECTIONS TO  
MATCH WITH PROFILE ELEVATIONS

SHEET NO. 282  
REV. 12-17-2019  
SECTIONS REVISED

SHEET NO. 329  
REV. 12-17-2019  
WALL 2-1 REVISED IN RAMP D CROSS SECTIONS.

SHEET NO. 351  
REV. 12-17-2019  
CORRECTED STATION LABELS.

SHEET NO. 353  
REV. 12-17-2019  
CORRECTED STATION LABELS.

SHEET NO. T4-N  
REV. 12-17-2019  
REVISED GUARDRAIL TRANSITION AT  
TEMPORARY BRIDGE.

SHEET NO. R-00  
REV. 12-17-2019  
REVISED ALIGNMENT AND CURVE DATA OF WALL NOS. 2-1, 3-1, AND 3-4.

SHEET NO. R-01  
REV. 12-17-2019  
REVISED WALL 2-1.

SHEET NO. R-03  
REV. 12-17-2019  
REVISED WALL NO. 3-1 TO TIE ABUTMENT #1 TO BRIDGE NO. 3. REVISED  
TABLE TO UPDATE STATIONS, OFFSETS, ELEVATIONS, AND  
WALL HEIGHTS DUE TO CHANGES TO WALL NO. 3-1.

SHEET NO. R-04  
REV. 12-17-2019  
REVISED WALL NO. 3-4 TO TIE ABUTMENT #2 TO BRIDGE NO. 3.

SHEET NO. R-04(1)  
REV. 12-17-2019  
REVISED TABLE TO UPDATE STATIONS, OFFSETS, ELEVATIONS, AND  
WALL HEIGHTS DUE TO CHANGES TO WALL NO. 3-4.

END OF REV. 12-17-2019

01-31-2020  
SHEETS ADDED:  
2A3, 2A4, U-91-189 - U-91-237, L-1 - L-14, ITS-1 - ITS-37

SHEET REV1  
REV. 1-31-2020  
REVISED REVISION SHEET

SHEET NO. 1A  
REV. 1-31-2020  
REVISED INDEX

SHEET NO. 2A  
REV. 01-31-2020:  
REVISED EST. ROADWAY QUANTITY ITEMS: 607-39.02,  
611-07.01, & 611-07.02

SHEET NO. 2E  
REV. 01-31-2020:  
REVISED RAMP D/RAMP G SP. DITCH

SHEET NO. 2E2  
REV. 01-31-2020:  
REVISED SIDE DRAIN TABULATION

SHEET NO. 2E6  
REV. 01-31-2020:  
ADDED ENDWALLS 113 & 113A

SHEET NO. 7A  
REV. 01-31-2020:  
ADDED SIDE DRAIN TO RAMP G LT, REVISED SP.  
DITCH

SHEET NO. 7B  
REV. 01-31-2020:  
REVISED SP. DITCH I-75 RT. FROM APPROX. 347+00 TO  
348+00

SHEET NO. 7C  
REV. 01-31-2020:  
REVISED SP. DITCH I-75 RT. FROM APPROX. 347+00 TO  
348+00

SHEET NO. 8A  
REV. 01-31-2020:  
REVISED SP. DITCH I-75 FROM APPROX. 348+00 TO  
350+00

SHEET NO. 8B  
REV. 01-31-2020:  
REVISED SP. DITCH I-75 RT FROM APPROX. 348+00 TO  
350+00

SHEET NO. 8C  
REV. 01-31-2020:  
REVISED SP. DITCH I-75 RT FROM APPROX. 348+00 TO  
350+00

SHEET NO. 50C  
REV. 01-31-2020:  
ADDED SIDE DRAIN TO RAMP G LT, REVISED SP.  
DITCH.

SHEET NO. 51C  
REV. 01-31-2020:  
ADDED SIDE DRAIN TO RAMP G LT, REVISED SP.  
DITCH

SHEET NO. 52C  
REV. 01-31-2020:  
ADDED SIDE DRAIN TO RAMP G LT, REVISED SP.  
DITCH

SHEET NO. 113  
REV. 01-31-2020:  
SECTIONS 347+00 AND 347+50 REVISED

SHEET NO. 114  
REV. 01-31-2020:  
SECTIONS REVISED

SHEET NO. 312  
REV. 01-31-2020:  
SECTION 2330+00 REVISED

SHEET NO. 313  
REV. 01-31-2020:  
SECTION 2330+50 REVISED

SHEET NO. 352  
REV. 01-31-2020:  
SECTIONS REVISED

SHEET NO. U-91-2  
REV. 01-31-2020:  
REVISED LOCATION OF CONSTRUCTION JOINT

SHEET NO. U-91-3  
REV. 01-31-2020:  
REVISED DRAWING REVISION DATES

SHEET NO. U-91-5  
REV. 01-31-2020:  
REVISED ESTIMATED QUANTITIES TABLE AND  
REMOVED FOOTNOTE FOR COUPLERS

SHEET NO. U-91-6  
REV. 01-31-2020:  
REVISED LOCATION OF CONSTRUCTION JOINT

SHEET NO. U-91-7  
REV. 01-31-2020:  
REVISED PHASE CONSTRUCTION LIMITS

SHEET NO. U-91-8  
REV. 01-31-2020:  
REVISED TYPICAL SECTION FOR NEW PHASE  
CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-9 THRU U-91-11  
REV. 01-31-2020:  
REVISED PHASE CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-13  
REV. 01-31-2020:  
REVISED PLAN AND ELEVATION FOR NEW  
CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-14  
REV. 01-31-2020:  
REVISED SECTION C-C AND DETAIL A FOR NEW  
PHASE CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-15  
REV. 01-31-2020:  
REMOVED COUPLER BAR DETAIL

SHEET NO. U-91-16  
REV. 01-31-2020:  
REVISED PLAN AND ELEVATION FOR NEW  
CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-17  
REV. 01-31-2020:  
REVISED SECTION C-C AND DETAIL A FOR NEW  
PHASE CONSTRUCTION JOINT LOCATION

SHEET NO. U-91-18  
REV. 01-31-2020:  
REMOVED COUPLER BAR DETAIL

SHEET NO. U-91-20  
REV. 01-31-2020:  
REVISED SUPERSTRUCTURE AND ABUTMENT BILL OF  
STEEL

SHEET NO. U-91-21  
REV. 01-31-2020:  
REVISED ABUTMENT BILL OF STEEL

SHEET NO. U-91-22  
REV. 01-31-2020:  
REVISED LOCATION OF CONSTRUCTION JOINT &  
UPDATED DIMENSIONS THAT WERE AFFECTED BY  
THIS CHANGE

SHEET NO. U-91-23  
REV. 01-31-2020:  
UPDATED REVISION DATES UNDER LIST OF  
DRAWINGS

SHEET NO. U-91-25  
REV. 01-31-2020:  
REVISED ESTIMATED QUANTITIES TABLE AND  
REMOVED FOOTNOTE FOR COUPLERS.

SHEET NOS. U-91-26 THRU U-91-34  
REV. 01-31-2020:  
REVISED LOCATION OF CONSTRUCTION JOINT AND  
UPDATED DIMENSIONS THAT WERE AFFECTED BY  
THIS CHANGE.

SHEET NO. U-91-35  
REV. 01-31-2020:  
REMOVED COUPLER BAR DETAIL

SHEET NOS. U-91-36 THRU U-91-37  
REV. 01-31-2020:  
REVISED LOCATION OF CONSTRUCTION JOINT AND  
UPDATED DIMENSIONS THAT WERE AFFECTED BY  
THIS CHANGE.

SHEET NO. U-91-38  
REV. 01-31-2020:  
REMOVED COUPLER BAR DETAIL

SHEET NO. U-91-40  
REV. 01-31-2020:  
REVISED SUBSTRUCTURE AND ABUTMENT BILL OF  
STEEL LISTS

SHEET NO. U-91-41  
REV. 01-31-2020:  
REVISED ABUTMENT BILL OF STEEL LIST

SHEET NO. U-91-241  
REV. 01-31-2020:  
REVISED ESTIMATED QUANTITIES TABLE FOR ITEM  
NO. 604-03.02

SHEET NO. U-91-254  
REV. 01-31-2020:  
REVISED FOOTING REINFORCEMENT, COLUMN  
CALLOUTS, AND ESTIMATED QUANTITIES TABLE

SHEET NO. U-91-255  
REV. 01-31-2020:  
REVISED SECTION C-C AND PLAN OF FOOTING DETAIL

SHEET NO. U-91-256  
REV. 01-31-2020:  
REVISED FOOTING LAYOUT IN PLAN VIEW

SHEET NO. U-91-258  
REV. 01-31-2020:  
REVISED QUANTITIES FOR BENT NO. 1

END OF REV. 01-31-2020

02-14-2020  
SHEETS ADDED:  
2D2, 48A, 49-1 THRU 49P-1

SHEET REV1  
REV. 02-14-2020  
REVISED REVISION SHEET

SHEET NO. 1  
REV. 02-14-2020  
REVISED PROJECT DESCRIPTION

SHEET NO. 1A  
REV. 02-14-2020  
REVISED INDEX

END OF REV. 02-14-2020

SHEET NO. U-91-108  
REV. 03-27-2020  
REVISED DRAWING REVISION DATES

SHEET NO. U-91-120  
REV. 03-27-2020  
REVISED BACKWALL ELEVATION

SHEET NO. U-91-122  
REV. 03-27-2020  
REVISED BACKWALL ELEVATION

SHEET NO. U-91-123  
REV. 03-27-2020  
REVISED BACKWALL ELEVATION

SHEET NO. U-91-148  
REV. 03-27-2020  
REVISED DRAWING REVISION DATES

SHEET NO. U-91-160  
REV. 03-27-2020  
REVISED BACKWALL ELEVATIONS

SHEET NO. U-91-238  
REV. 03-27-2020  
MODIFIED TRANSITION SKETCH

SHEET NO. U-91-239  
REV. 03-27-2020  
REVISED DRAWING REVISION DATES

SHEET NO. U-91-247  
REV. 03-27-2020  
SCREED ELEVATIONS REVISED

SHEET NO. U-91-250  
REV. 03-27-2020  
REVISED BACKWALL ELEVATIONS

SHEET NO. U-91-252  
REV. 03-27-2020  
REVISED BACKWALL ELEVATIONS

END OF REV. 03-27-2020

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	IM/NH-75-1(131)	REV1

REV. 01-31-2020  
REVISED REVISION SHEET

REV. 02-14-2020  
REVISED REVISION SHEET

REV. 03-27-2020  
REVISED REVISION SHEET

SEALED BY

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COORDINATES ARE NAD/83(1995),  
ARE DATUM ADJUSTED BY THE  
FACTOR OF 0.99998 AND TIED TO  
THE TGRN. ALL ELEVATIONS ARE  
REFERENCED TO THE NAVD 1988.

**STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION**

REVISION  
SHEET

CONST. NO.:

PROJECT NO.	YEAR	SHEET NO.	
- -	2019	U-91-108	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	03-27-2020	KNS	REVISED DRAWING REVISION DATES
- -			
- -			
- -			
- -			

LIST OF DRAWINGS 

DRAWING	DWG. NO.	LAST REV. DATE
LAYOUT	U-91-107	
LIST OF DRAWINGS	U-91-108	03-27-2020
GENERAL NOTES	U-91-109	
ESTIMATED QUANTITIES	U-91-110	
FOUNDATION DATA	U-91-111	
PHASING AND DEMOLITION PLAN	U-91-112	
SUPERSTRUCTURE	U-91-113	
SUPERSTRUCTURE DETAILS	U-91-114	
SUPERSTRUCTURE DETAILS	U-91-115	
SUPERSTRUCTURE DETAILS	U-91-116	
SCREED PLAN	U-91-117	
STAKEOUT PLANS	U-91-118	
PRESTRESSED BULB-TEE (BT-63) DETAILS	U-91-119	
ABUTMENT NO. 1	U-91-120	03-27-2020
ABUTMENT NO. 1 DETAILS	U-91-121	
ABUTMENT NO. 1 DETAILS	U-91-122	03-27-2020
ABUTMENT NO. 2	U-91-123	03-27-2020
ABUTMENT NO. 2 DETAILS	U-91-124	
FINAL FOUNDATION DATA	U-91-125	
BILL OF STEEL	U-91-126	

LIST OF STANDARD DRAWINGS

DRAWING	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE	STD-1-1SS	5-01-14
CONCRETE PARAPET		
STD. SINGLE SLOPE CONCRETE	STD-1-3SS	11-01-10
MEDIAN BARRIER		
REINFORCED CONCRETE PAVEMENT	STD-1-5	3-26-14
AT BRIDGE ENDS		
BRIDGE END DRAIN W/ PABE	STD-1-6	4-28-97
BRIDGE END DRAIN W/ PABE	STD-1-7	8-24-11
BRIDGE END DRAIN 2'x8'-7" W/ PABE	STD-1-8	5-01-95
BRIDGE MOUNTED INTERCONNECTED	STD-2-1	11-01-10
PORTABLE BARRIER RAIL		
BRIDGE MOUNTED INTERCONNECTED PORTABLE	STD-2-3	
BARRIER RAIL ALTERNATIVE CONNECTION DETAIL		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-1	4-08-05
DECK PANELS GENERAL DETAILS		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-2	4-08-05
DECK PANELS DESIGN CRITERIA		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-3	3-02-02
DECK PANELS GENERAL DETAILS		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-4	6-10-96
DECK PANELS CONSTRUCTION DETAILS		
STD. PILE DETAILS	STD-5-1	10-25-93
STD. PILE DETAILS	STD-5-2	5-01-14
STANDARD SEISMIC DETAILS	STD-6-1	11-01-10
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
REINFORCING BAR SUPPORT DETAILS	STD-9-1	10-07-08
FOR CONCRETE SLABS		
MISCELLANEOUS ABUTMENT AND	STD-10-1	4-08-05
DRAINAGE DETAILS		
STD. DETAILS AND INT. DIAPH. DETAILS FOR	STD-14-1	5-01-14
BULB-TEE BEAMS		

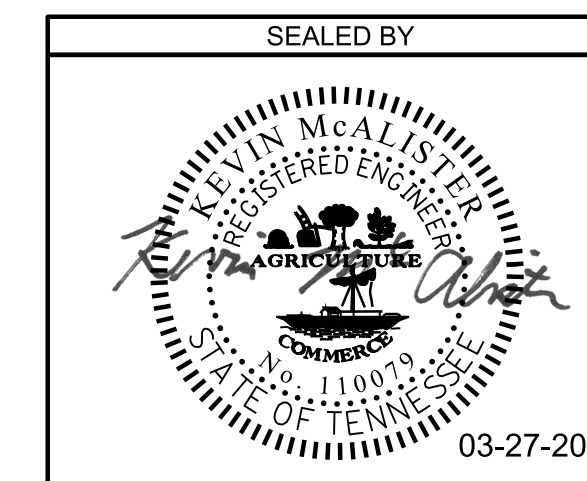
\* REFERENCE DRAWINGS

DWG. NO.	DRAWING
H-2-44 - H-2-51	EXISTING BRIDGE PLANS (1959)
M-202-74 - M-202-91A	BRIDGE WIDENING PLANS (1988)

\* DENOTES: THESE DRAWINGS TO BE PRINTED WITH PLANS.

LIST OF SPECIAL PROVISIONS

SPECIAL PROVISION	PROV. NO.	LAST REV. DATE
REPAIR OF BRIDGE DECK CRACKS	604CR	.02-19-1996



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 7  
 LIST OF DRAWINGS  
 I-24 EB TO I-75 SB  
 OVER SPRING CREEK  
 HAMILTON COUNTY  
 2019

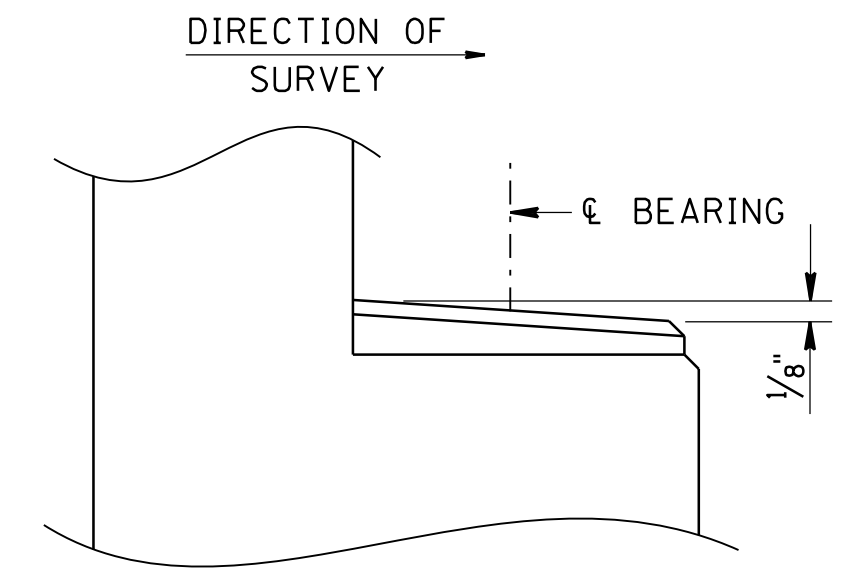
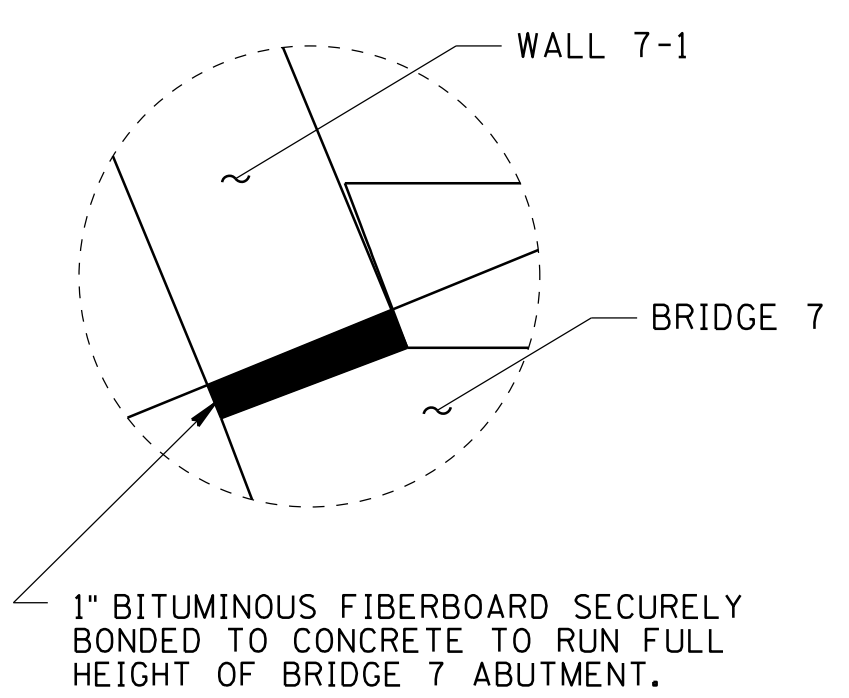
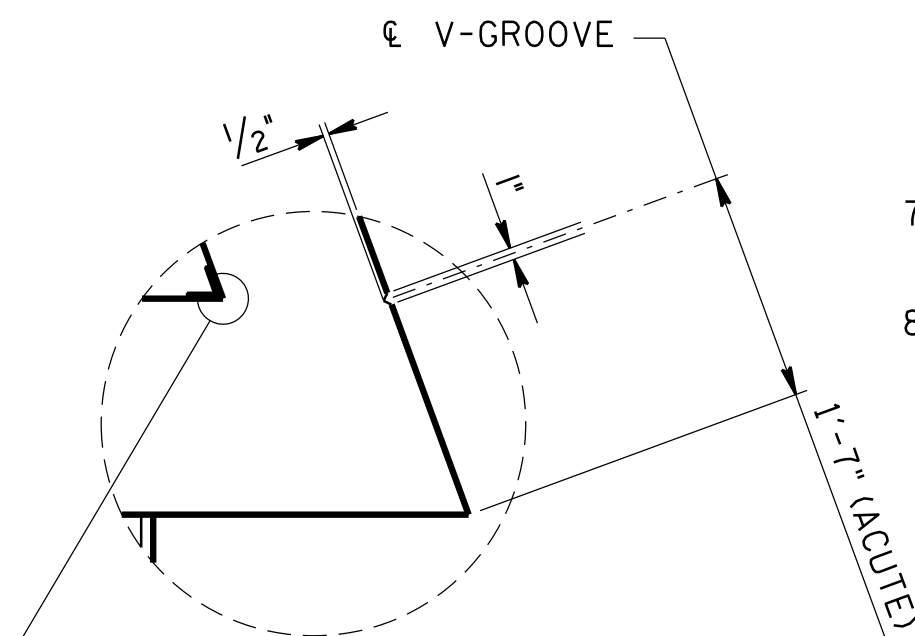
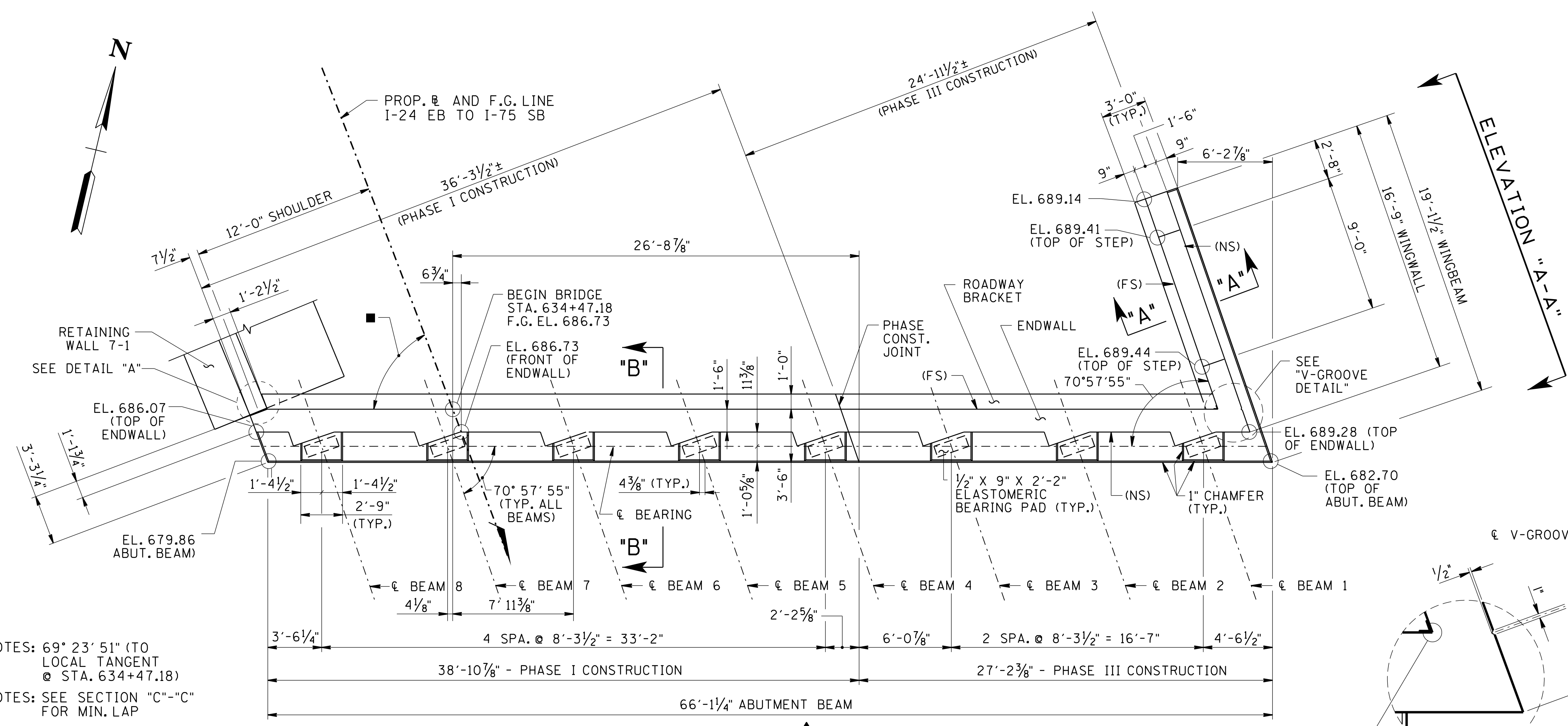
PIN NO.: 114174.00  
 DESIGN BY: J. LEADERS DATE: 10/2019  
 DRAWN BY: K. SWANK DATE: 10/2019  
 SUPERVISED BY: K. McALISTER DATE: 10/2019  
 CHECKED BY: A. MOORE DATE: 10/2019

CONST. NO.:

PROJECT NO.	YEAR	SHEET NO.	
- -	2019	U-91-120	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	03/27/2020	KNS	REVISED BACKWALL ELEVATION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

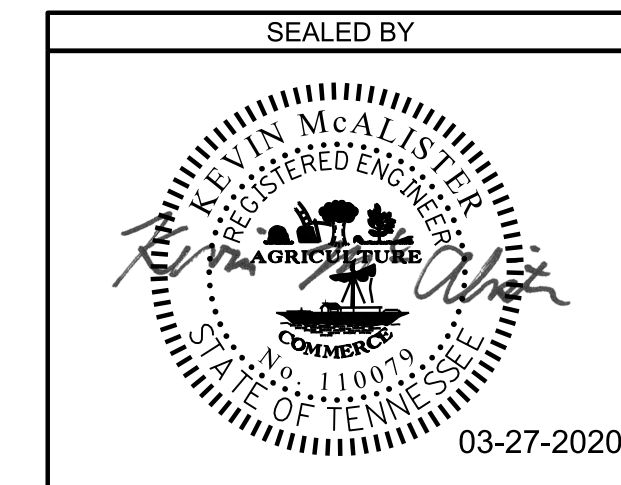
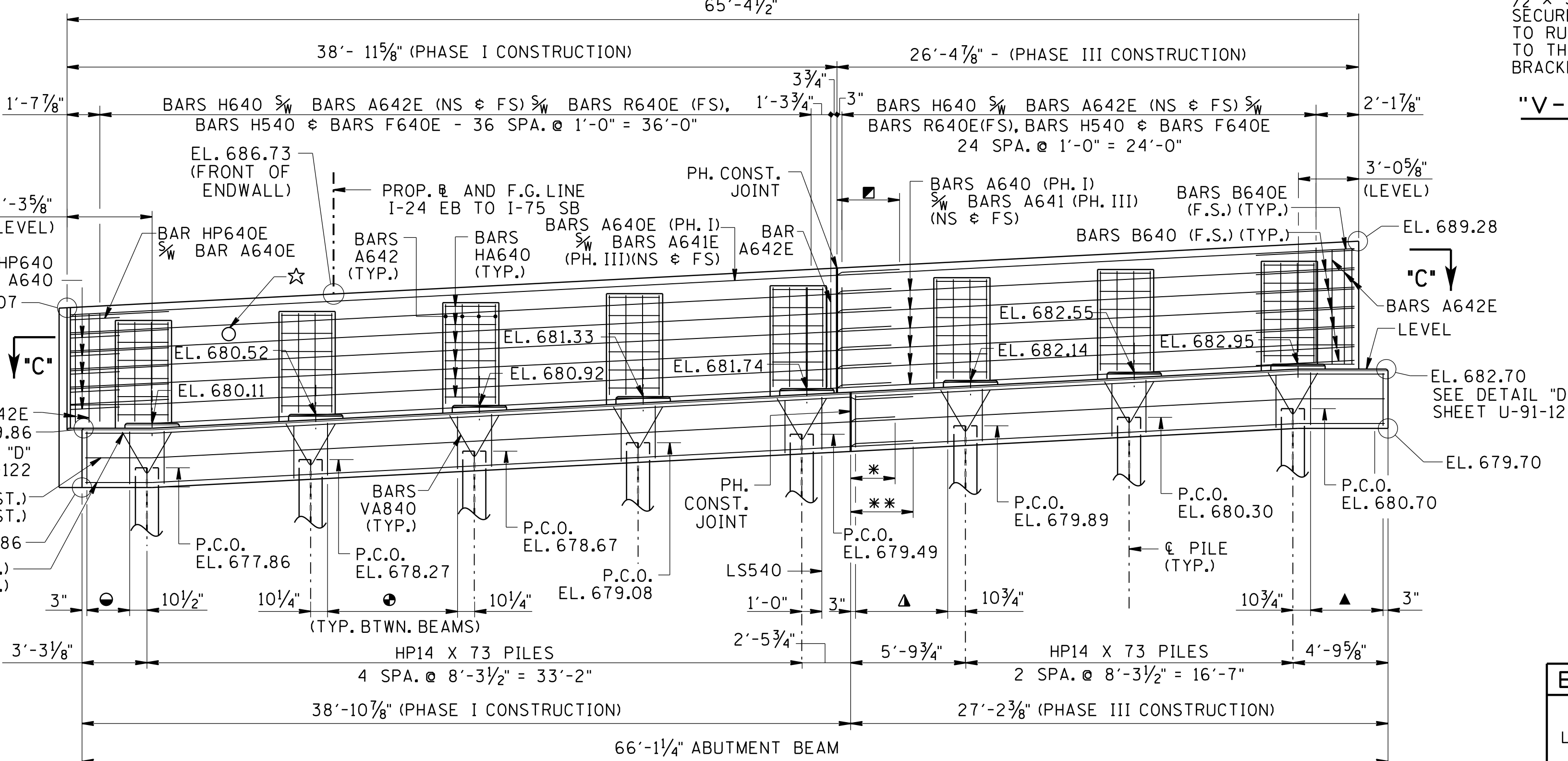
NOTES:

1. RISER BLOCKS TO BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
2. RISER BLOCK BEARING PAD SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
3. WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOSTS AND PARAPET, SEE STD. DWG. NO. STD-1-1SS.
4. COST OF BRIDGE RAIL AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE BRIDGE RAIL SYSTEM.
5. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
6. NOT LESS THAN HALF OF THE SLAB SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT BACKWALL. AT LEAST THE TOP 12 INCHES OF THE BACKWALL SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB. ONE ABUTMENT BACKWALL MUST BE POURED FULL HEIGHT CONCURRENTLY WITH THE END OF THE SLAB.
7. SEE STANDARD DRAWING STD-6-1 FOR PILE DETAILS AND NOTES.
8. WINGBEAM PILES SHALL BE DRIVEN TO REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.



ESTIMATED ABUTMENT QUANTITIES			
LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 1	64	2,358	7,005

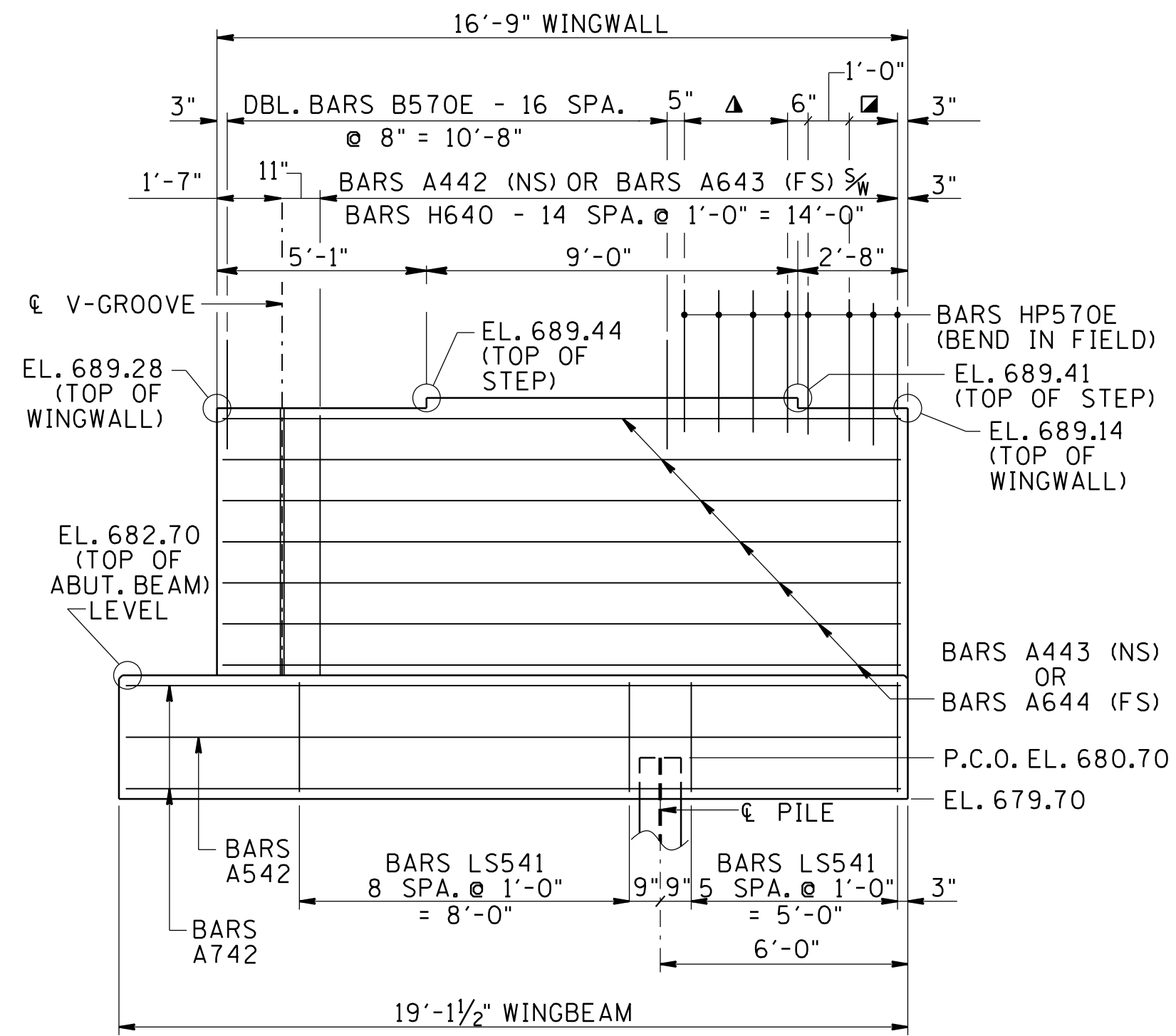
- DENOTES: 69° 23' 51" (TO LOCAL TANGENT @ STA. 634+47.18)
- ▣ DENOTES: SEE SECTION "C"- "C" FOR MIN. LAP
- \* DENOTES: 2'-3" MIN. LAP NO. 5 BARS
- \*\* DENOTES: 3'-2" MIN. LAP NO. 7 BARS
- DENOTES: BARS LS540 7 EQ. SPA. = 6'-7"
- DENOTES: BARS LS540 3 EQ. SPA. = 2'-2"
- ▲ DENOTES: BARS LS540 5 EQ. SPA. = 4'-8"
- ▲ DENOTES: BARS LS540 4 EQ. SPA. = 3'-8"
- ☆ DENOTES: COORDINATE OPENINGS FOR 4" DIA. CONDUIT WITH UTILITY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BRIDGE NO. 7  
ABUTMENT NO. 1  
I-24 EB TO I-75 SB  
OVER SPRING CREEK  
HAMILTON COUNTY  
2019

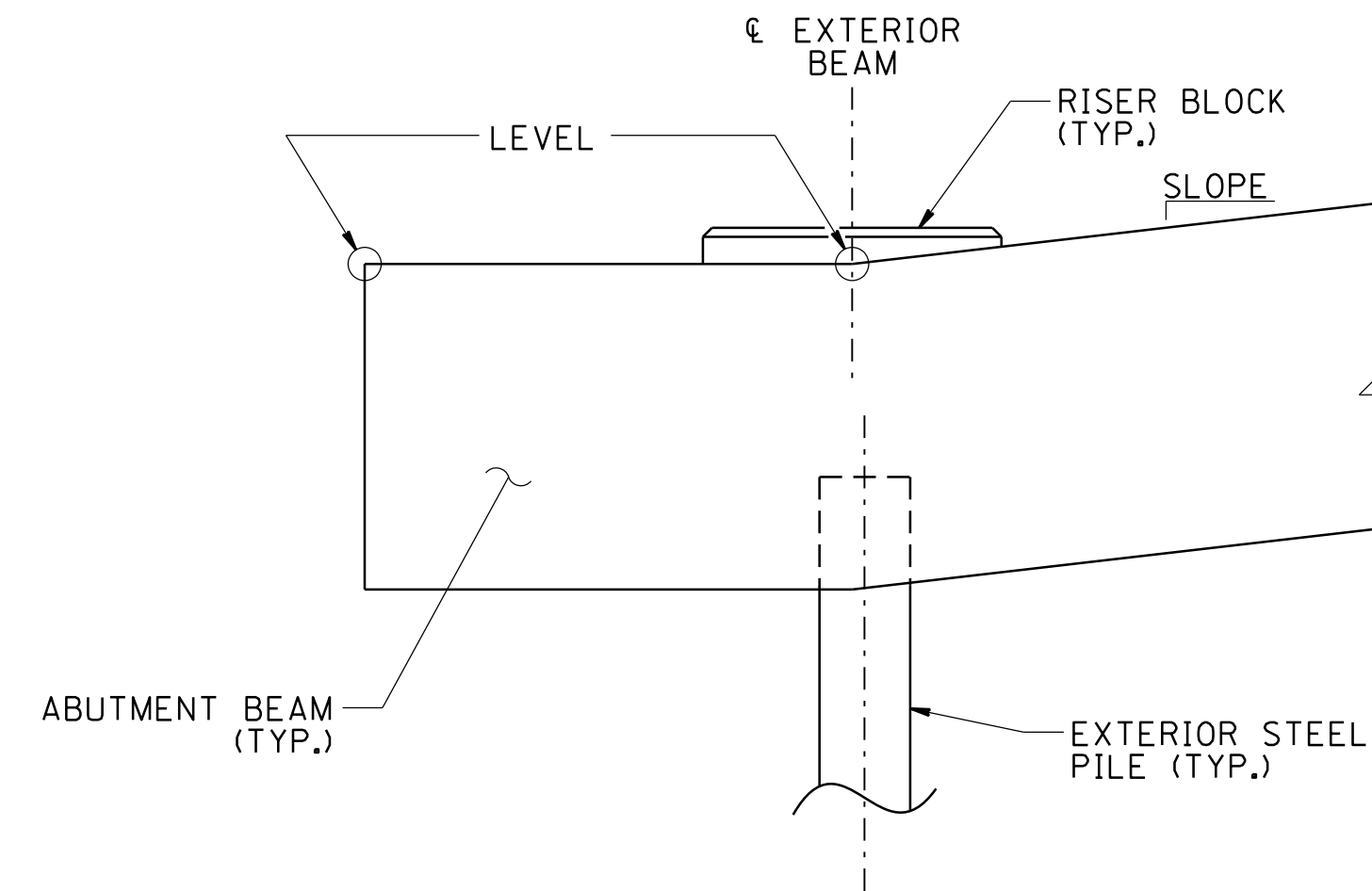
CONST. NO.:

PROJECT NO.	YEAR	SHEET NO.	
- -	2019	U-91-122	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	03/27/2020	KNS	REVISED BACKWALL ELEVATION
-	-	-	-
-	-	-	-
-	-	-	-



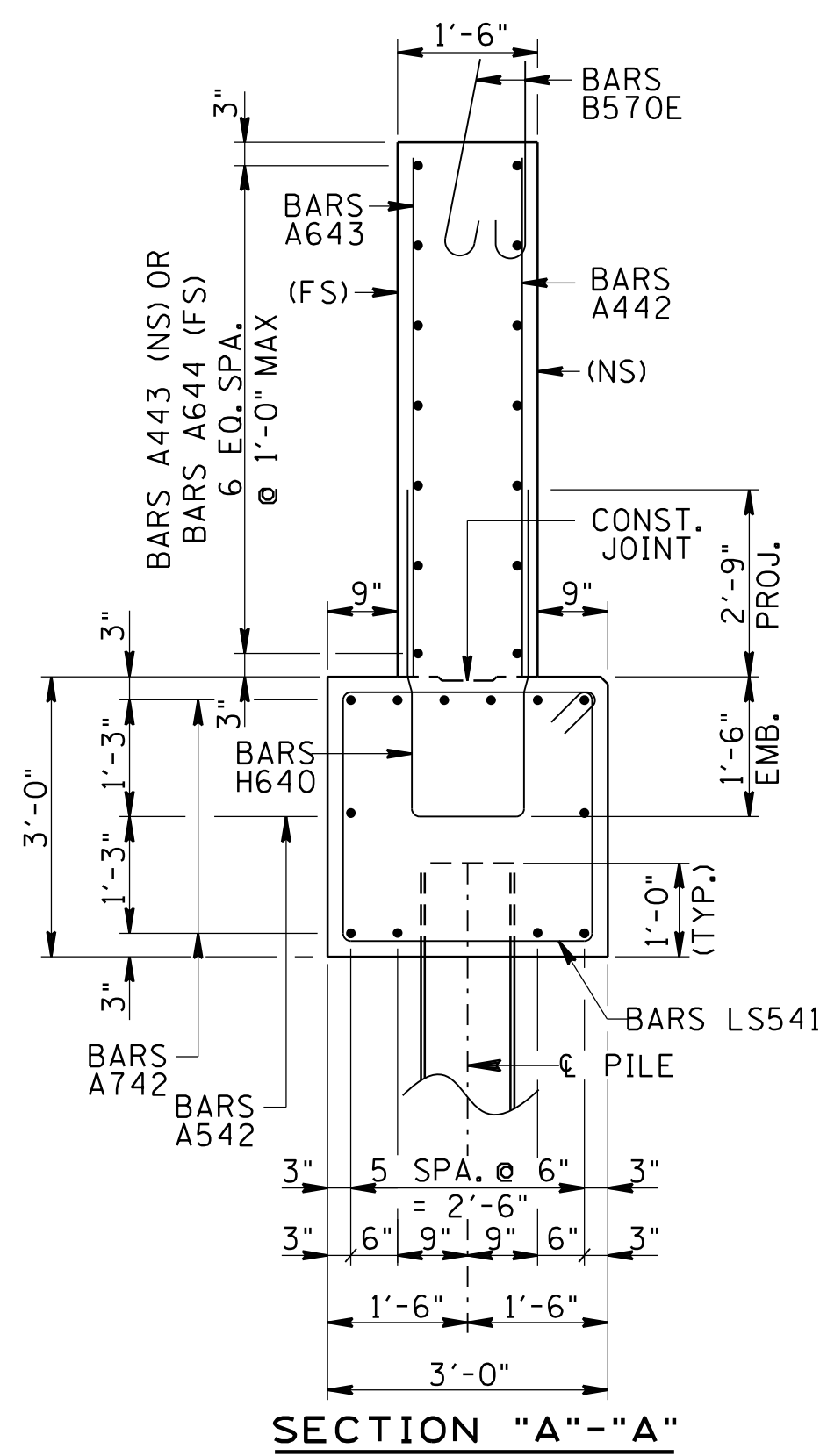
**ELEVATION "A"-"A"**

▲ DENOTES: 3 SPA. @ 10" = 2'-6"  
 ■ DENOTES: 2 SPA. @ 7" = 1'-2"

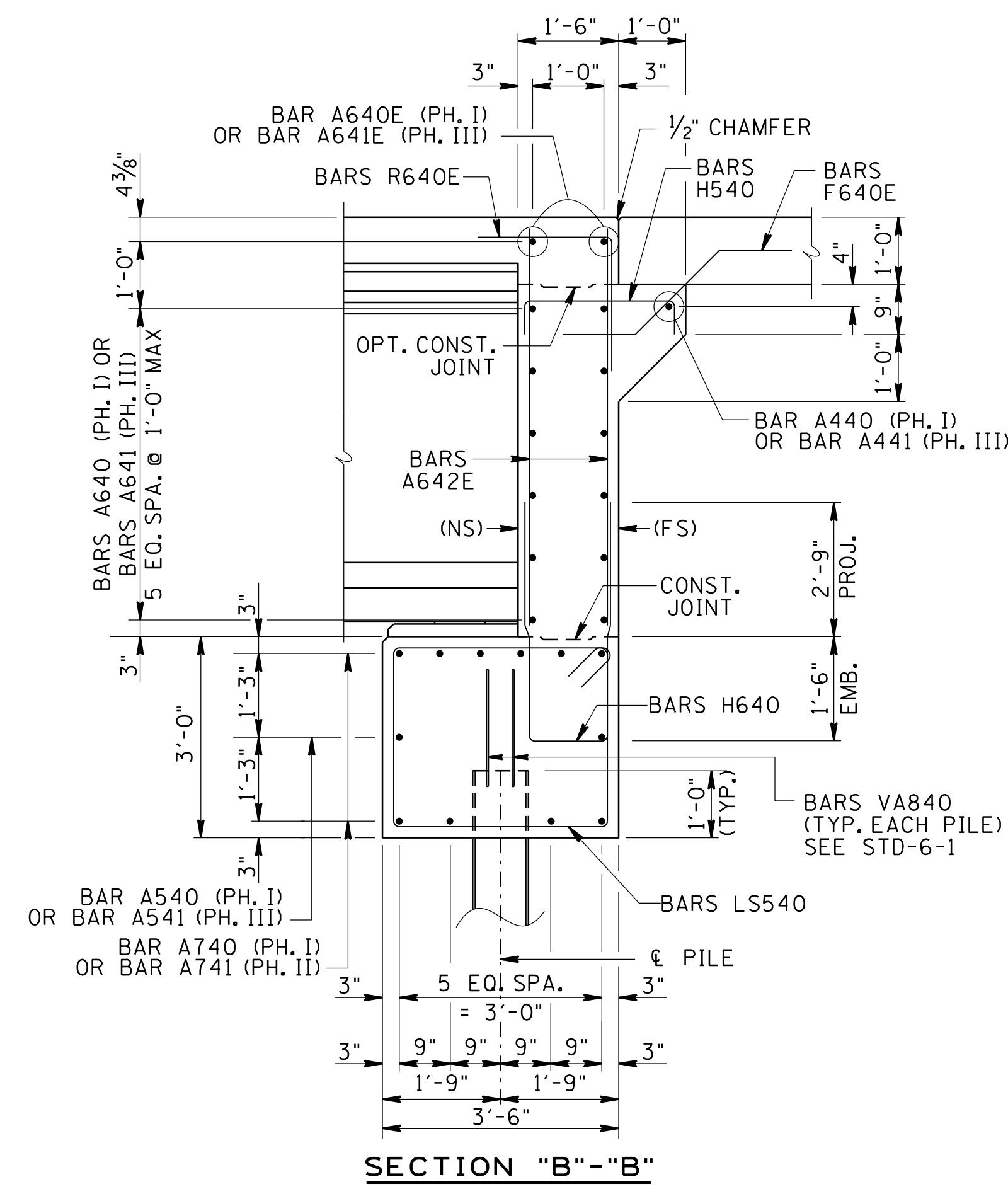


**DETAIL "D"**

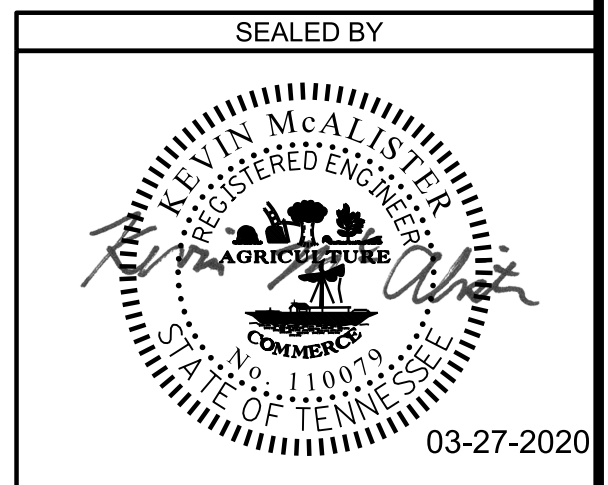
(TYPICAL BOTH SIDES OF BRIDGE)  
 N.T.S.



**SECTION "A"-"A"**



**SECTION "B"-"B"**



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 7  
 ABUTMENT NO. 1 DETAILS  
 I-24 EB TO I-75 SB  
 OVER SPRING CREEK  
 HAMILTON COUNTY  
 2019

PIN NO.: 114174.00  
 DESIGN BY: J. LEADERS DATE: 10/2019  
 DRAWN BY: K. SWANK DATE: 10/2019  
 SUPERVISED BY: K. McALISTER DATE: 10/2019  
 CHECKED BY: A. MOORE DATE: 10/2019



CONST. NO.:

PROJECT NO.	YEAR	SHEET NO.	
- -	2019	U-91-148	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	03-27-2020	KNS	REVISED DRAWING REVISION DATES
- -			
- -			
- -			
- -			

LIST OF DRAWINGS 

DRAWING	DWG. NO.	LAST REV. DATE
LAYOUT	U-91-147	
LIST OF DRAWINGS	U-91-148	03-27-2020
GENERAL NOTES	U-91-149	
ESTIMATED QUANTITIES	U-91-150	
FOUNDATION DATA	U-91-151	
SUPERSTRUCTURE	U-91-152	
SUPERSTRUCTURE DETAILS	U-91-153	
SUPERSTRUCTURE DETAILS	U-91-154	
SUPERSTRUCTURE DETAILS	U-91-155	
SUPERSTRUCTURE DETAILS	U-91-156	
BRIDGE SCREED	U-91-157	
STAKEOUT PLANS	U-91-158	
PRESTRESSED BULB-TEE (BT-63) DETAILS	U-91-159	
ABUTMENT NO. 1	U-91-160	03-27-2020
ABUTMENT NO. 1 DETAILS	U-91-161	
ABUTMENT NO. 1 DETAILS	U-91-162	
ABUTMENT NO. 2	U-91-163	
ABUTMENT NO. 2 DETAILS	U-91-164	
ABUTMENT NO. 2 DETAILS	U-91-165	
FINAL FOUNDATION DATA	U-91-166	
BILL OF STEEL	U-91-167	

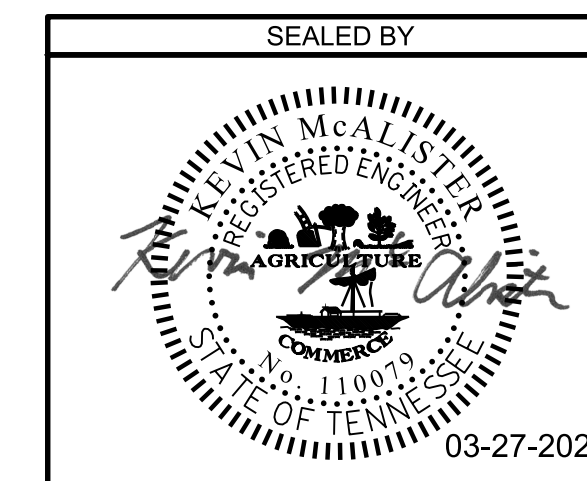
LIST OF STANDARD DRAWINGS

DRAWING	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE	STD-1-1SS	5-01-14
CONCRETE PARAPET		
REINFORCED CONCRETE PAVEMENT	STD-1-5	3-26-14
AT BRIDGE ENDS		
BRIDGE END DRAIN W/ PABE	STD-1-6	4-28-97
BRIDGE END DRAIN W/ PABE	STD-1-7	8-24-11
BRIDGE END DRAIN 2'x8'-7" W/ PABE	STD-1-8	5-01-95
STD. PRECAST PRESTRESSED BRIDGE	STD-4-1	4-08-05
DECK PANELS GENERAL DETAILS		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-2	4-08-05
DECK PANELS DESIGN CRITERIA		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-3	3-02-02
DECK PANELS GENERAL DETAILS		
STD. PRECAST PRESTRESSED BRIDGE	STD-4-4	6-10-96
DECK PANELS CONSTRUCTION DETAILS		
STD. PILE DETAILS	STD-5-1	10-25-93
STD. PILE DETAILS	STD-5-2	5-01-14
STANDARD SEISMIC DETAILS	STD-6-1	11-01-10
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
REINFORCING BAR SUPPORT DETAILS	STD-9-1	10-07-08
FOR CONCRETE SLABS		
MISCELLANEOUS ABUTMENT AND	STD-10-1	4-08-05
DRAINAGE DETAILS		
STD. DETAILS AND INT. DIAPH. DETAILS FOR	STD-14-1	5-01-14
BULB-TEE BEAMS		

• REFERENCE DRAWINGS

DWG. NO.	DRAWING
H-2-44 THRU H-2-51	EXISTING BRIDGE PLANS (1959)
M-202-74 THRU M-202-91A	BRIDGE WIDENING PLANS (1988)

• DENOTES: THESE DRAWINGS TO BE PRINTED WITH PLANS.



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 1NB  
 LIST OF DRAWINGS & STANDARD DRAWINGS  
 I-75 NORTHBOUND  
 OVER SPRING CREEK  
 HAMILTON COUNTY  
 2019

PIN NO.: 114174.00  
 DESIGN BY: G. MARTINEZ DATE: 10/2019  
 DRAWN BY: M. METZ DATE: 10/2019  
 SUPERVISED BY: K. McALISTER DATE: 10/2019  
 CHECKED BY: A. MOORE DATE: 10/2019

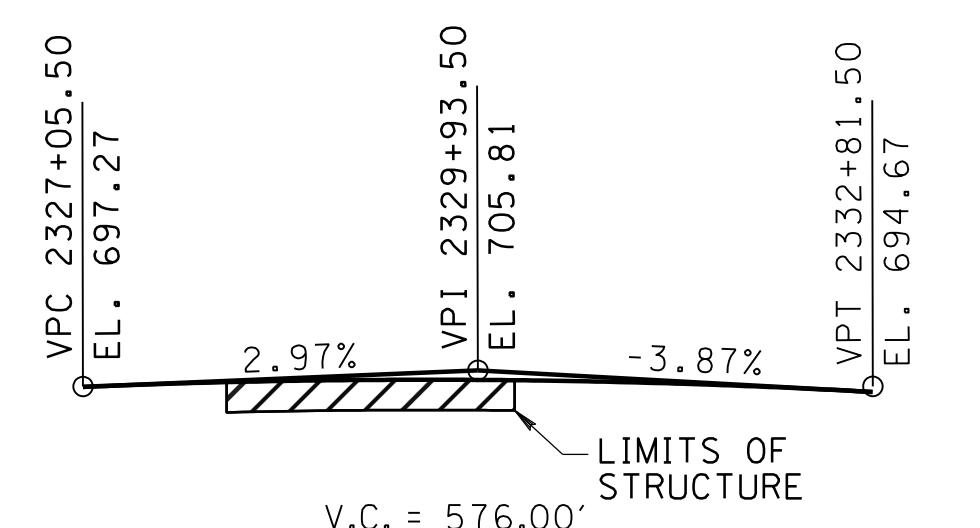
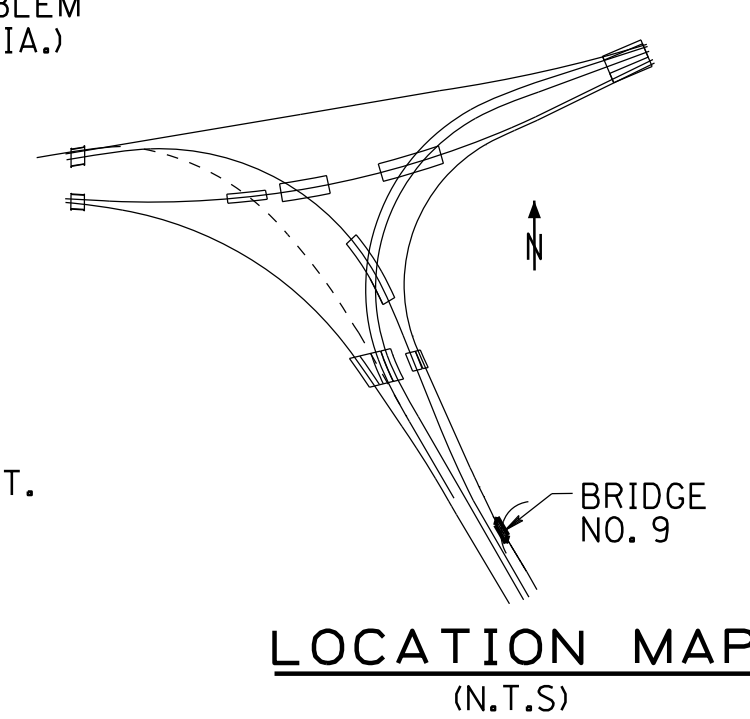
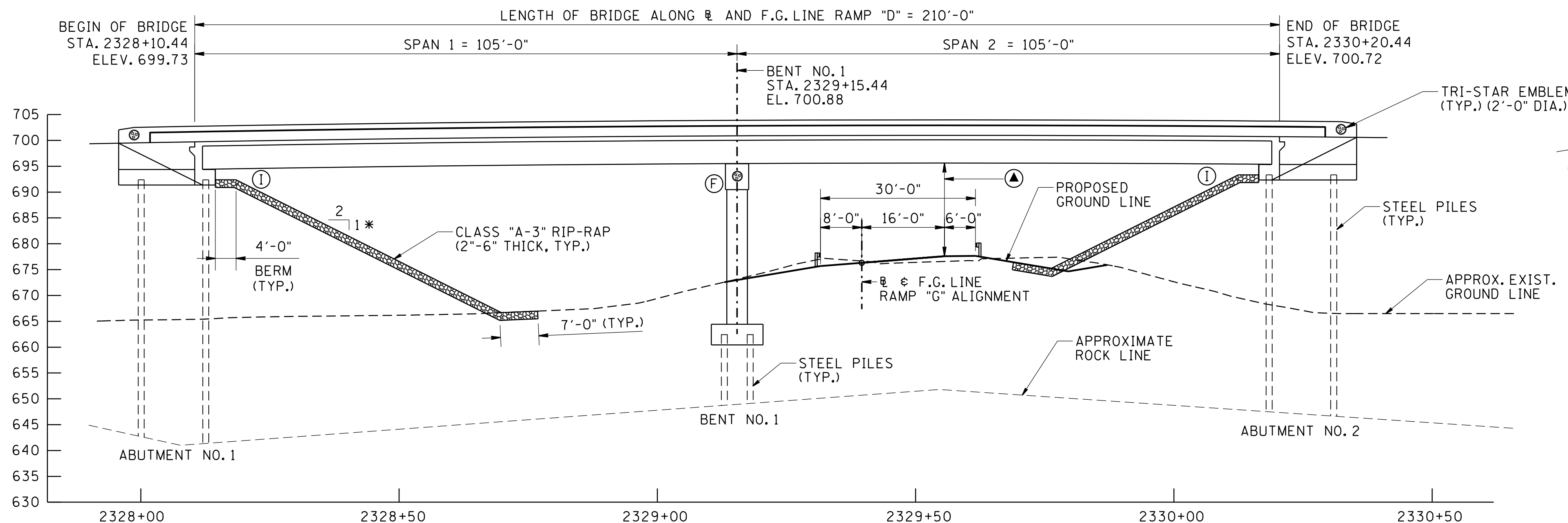




PROJECT NO.	YEAR	SHEET NO.
IM/NH-75-1(131)	2019	U-91-238

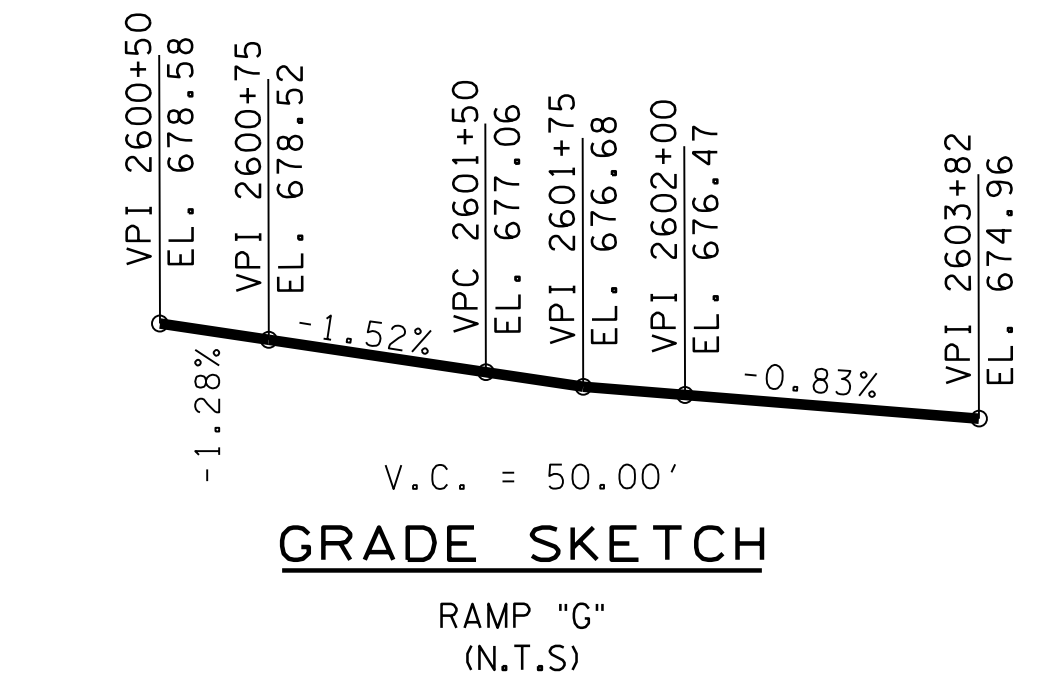
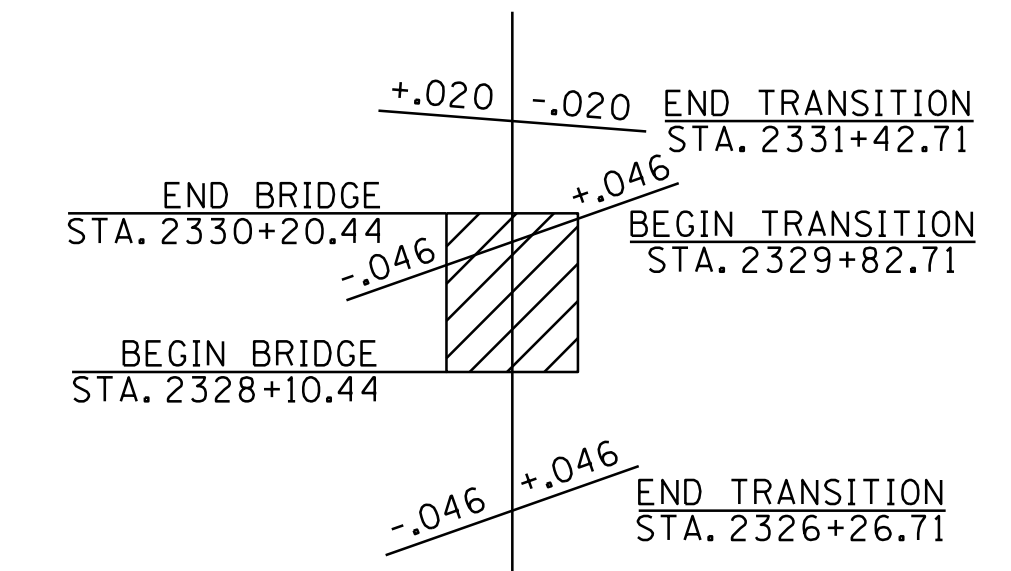
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	3-27-2020	KSM	MODIFIED TRANSITION SKETCH
..	..	..	..
..	..	..	..



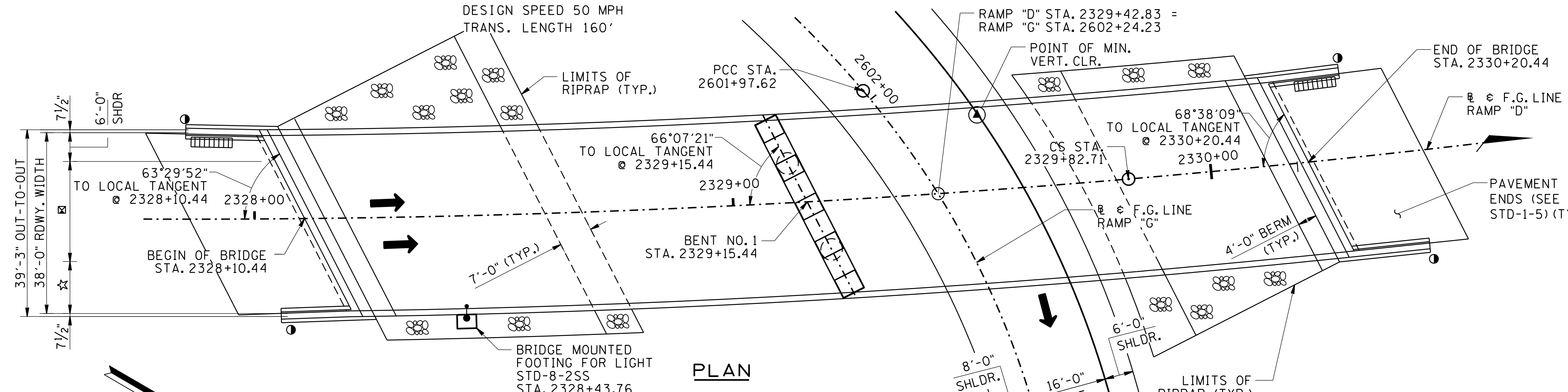
**ELEVATION**

SCALE: 1" = 15'-0"

- ⓕ DENOTES: FIXED
- Ⓛ DENOTES: INTEGRAL
- ⓐ DENOTES: POINT OF MIN. VERT. CLEARANCE  
REQUIRED = 16'-6"  
ACTUAL = 16'-9"
- \* DENOTES: RIGHT ANGLES TO ABUTMENT (TYP.)



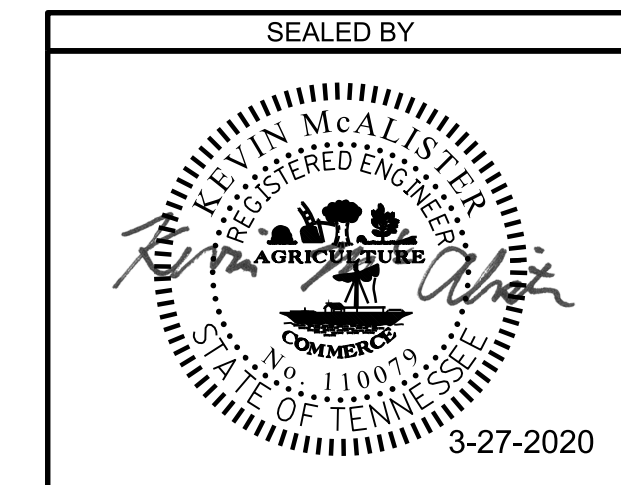
<b>CURVE RAMP_G-1</b>	<b>CURVE RAMP_G-2</b>	<b>CURVE RAMP_D-4</b>
PI 2601+05.37	PI 2603+10.27	PI 2328+05.85
N 242,322.3333	N 242,527.8870	N 242,337.0975
E 2,205,722.0608	E 2,205,794.7420	E 2,205,854.8298
Δ 49° 13' 47" (RT)	Δ 64° 04' 47" (RT)	Δs 12° 53' 56" (LT)
D 24° 54' 40"	D 31° 49' 52"	θs 1° 59' 59"
R 230.00	R 180.00	Δc 8° 53' 57" (LT)
L 197.62	L 201.31	Dc 2° 29' 59"
T 105.37	T 112.65	Rc 2,292.00
SE 0.080 FT/FT	SE 0.080 FT/FT	Lc 356.00
DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH	Ts 339.14
TRANS. LENGTH SEE PROFILE	TRANS. LENGTH SEE PROFILE	Ls 160.00
		SE 0.046 FT/FT
		DESIGN SPEED 50 MPH
		TRANS. LENGTH 160'



**PLAN**

- SCALE: 1" = 15'-0"
- ☒ DENOTES: LANE VARIES FROM 19'-9 3/4" @ BEG. OF BRIDGE TO 16'-0" @ END OF BRIDGE
  - ☆ DENOTES: SHOULDER VARIES FROM 12'-7 1/8" @ BEGIN BRIDGE TO 16'-0" @ END OF BRIDGE
  - ▤ DENOTES: 2'-0" X 8'-7" END OF BRIDGE DRAIN WITH END OF PAVEMENT (SEE STD. DWG. NOS. STD-1-6, 7, AND 8)
  - DENOTES: GUARDRAIL ATTACHMENT
  - ⓐ DENOTES: POINT OF MINIMUM VERTICAL CLEARANCE  
RAMP G STA. 2602+15.22 OFF. 16'-9" LT  
RAMP D STA. 2329+52.22 OFF. 16'-9" LT
  - ➔ DENOTES: DIRECTION OF ONE LANE OF TRAFFIC

2041 ADT (RAMP D) = 9,890  
 DESIGN SPEED (RAMP "D") = 50 MPH  
 38'-0" ROADWAY WIDTH WITH STD-1-1SS PARAPET  
 CLASS "A-3" RIP RAP = 697 TONS



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 9  
 LAYOUT  
 RAMP "D"  
 OVER RAMP "G"  
 BRIDGE NO. 33-I0075-00.81  
 FED. I.D. NO. 33I0075085  
 HAMILTON COUNTY  
 2019

3/27/2020 F:\36\36908\3690800\04\_CAD\TRANS\IBridge\IBridge 9\_LAY0001.dgn

PROJECT NO.	YEAR	SHEET NO.	
IM/NH-75-1(131)	2019	U-91-239	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	1-31-2020	KSM	REVISED DRAWING REVISION DATES
2	3-27-2020	KSM	REVISED DRAWING REVISION DATES
-	-	-	-
-	-	-	-

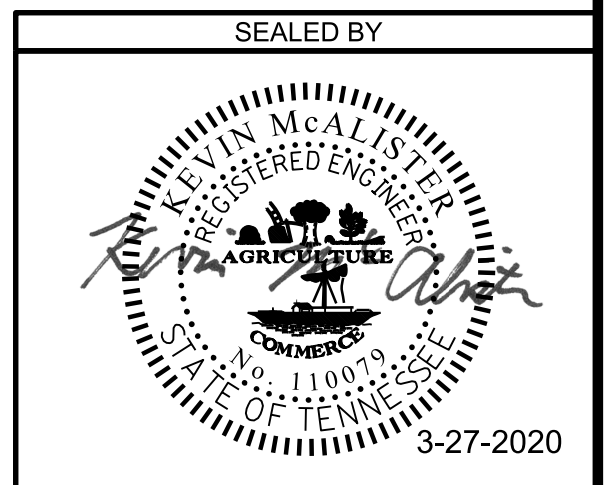
**LIST OF DRAWINGS**  

DRAWING	DWG. NO.	LAST REV. DATE
LAYOUT	U-91-238	3-27-20
LIST OF DRAWINGS	U-91-239	3-27-20
GENERAL NOTES	U-91-240	
ESTIMATED QUANTITIES	U-91-241	1-31-20
FOUNDATION DATA	U-91-242	
SUPERSTRUCTURE (TYPICAL SECTION)	U-91-243	
SUPERSTRUCTURE DETAILS (PLAN OF MAIN REINFORCEMENT)	U-91-244	
SUPERSTRUCTURE DETAILS (SLAB PLAN)	U-91-245	
SUPERSTRUCTURE DETAILS (FRAMING PLAN)	U-91-246	
SCREED PLAN	U-91-247	3-27-20
STAKEOUT PLAN	U-91-248	
PRESTRESSED BULB-TEE (BT-54) DETAILS	U-91-249	
ABUTMENT NO. 1	U-91-250	3-27-20
ABUTMENT NO. 1 DETAILS	U-91-251	
ABUTMENT NO. 2	U-91-252	3-27-20
ABUTMENT NO. 2 DETAILS	U-91-253	
BENT NO. 1	U-91-254	1-31-20
BENT NO. 1 DETAILS	U-91-255	1-31-20
FINAL FOUNDATION DATA	U-91-256	1-31-20
BILL OF STEEL (SHEET 1 OF 2)	U-91-257	
BILL OF STEEL (SHEET 2 OF 2)	U-91-258	1-31-20

**LIST OF STANDARD DRAWINGS**

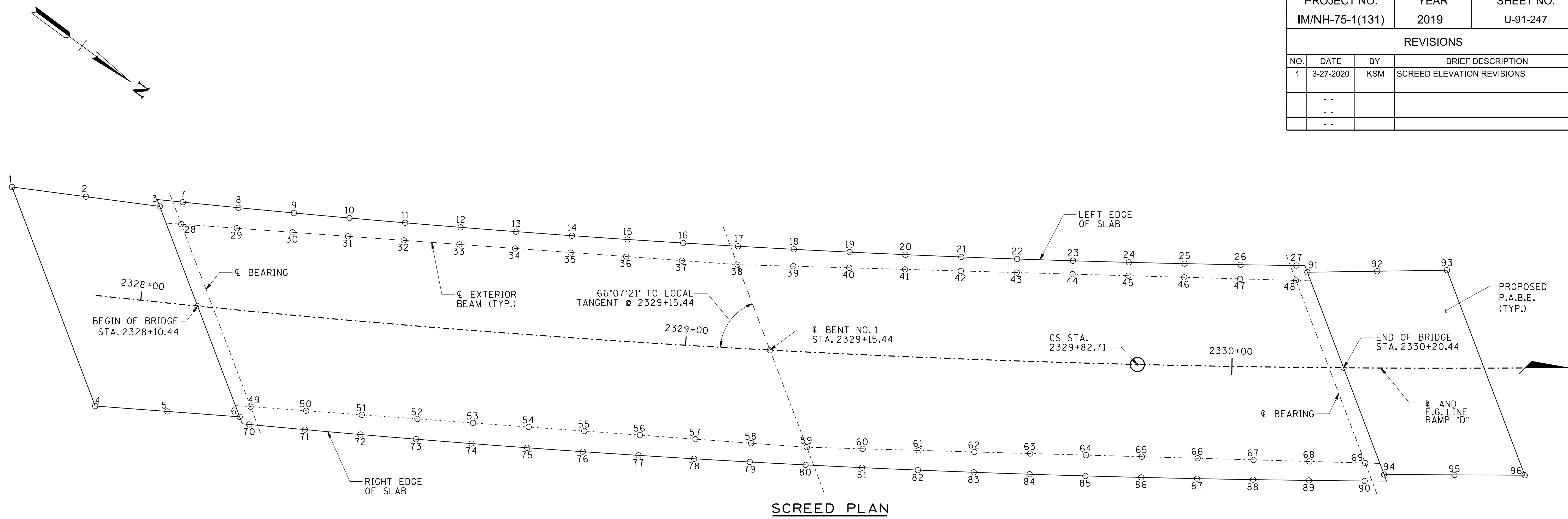
DRAWING	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE	STD-1-1SS	5-01-14
CONCRETE PARAPET		
REINFORCED CONCRETE PAVEMENT	STD-1-5	3-26-14
AT BRIDGE ENDS		
BRIDGE END DRAIN DETAILS 2'X8'-7" @ 4'X8'-7" WITH PAVEMENT AT BRIDGE ENDS	STD-1-6	4-28-97
BRIDGE END DRAIN DETAILS 2'X8'-7" @ 4'X8'-7" WITH PAVEMENT AT BRIDGE ENDS	STD-1-7	8-24-11
BRIDGE END DRAIN DETAILS 2'X8'-7" WITH PAVEMENT AT BRIDGE ENDS	STD-1-8	5-1-95
BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL	STD-2-1	11-01-10
BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL ALTERNATE CONNECTION DETAIL	STD-2-3	
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-1	4-08-05
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA	STD-4-2	4-08-05
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS	STD-4-3	3-02-02
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS	STD-4-4	6-10-96
STD. PILE DETAILS	STD-5-1	10-25-93
STD. PILE DETAILS	STD-5-2	5-01-14
STANDARD SEISMIC DETAILS	STD-6-1	11-01-10
STANDARD SEISMIC DETAILS	STD-6-2	11-07-94
SINGLE SLOPE PARAPET STANDARD LIGHT SUPPORT DETAILS	STD-8-2SS	
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	STD-10-1	4-08-05
STD. DETAILS AND INT. DIAPH. DETAILS FOR BULB-TEE BEAMS	STD-14-1	5-01-14
SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION	RD01-SA-1	10-15-02

PIN NO.: 114174.00  
 DESIGN BY: M. DAVIS DATE: 12/2019  
 DRAWN BY: G. NEAL/L. WEBSTER DATE: 12/2019  
 SUPERVISED BY: K. McALISTER DATE: 12/2019  
 CHECKED BY: A. MOORE DATE: 12/2019



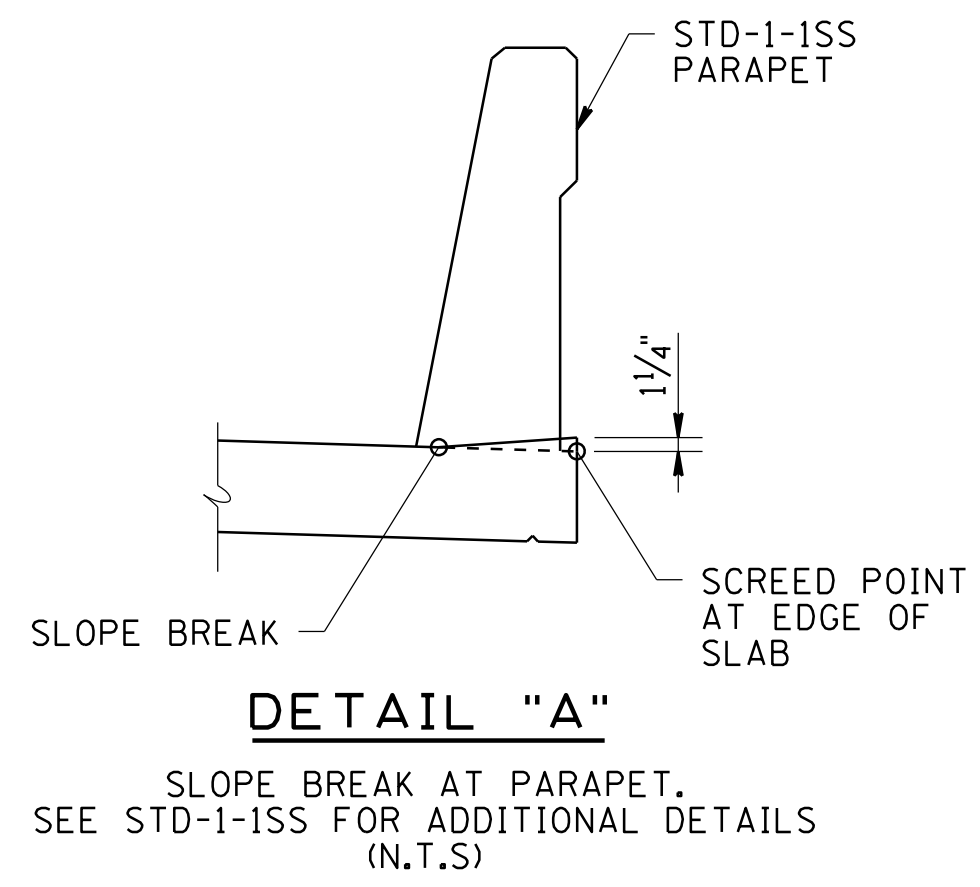
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 9  
 LIST OF DRAWINGS  
 RAMP "D"  
 OVER RAMP "G"  
 HAMILTON COUNTY  
 2019

PROJECT NO.	YEAR	SHEET NO.	
IM/NH-75-1(131)	2019	U-91-247	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	3-27-2020	KSM	SCREED ELEVATION REVISIONS
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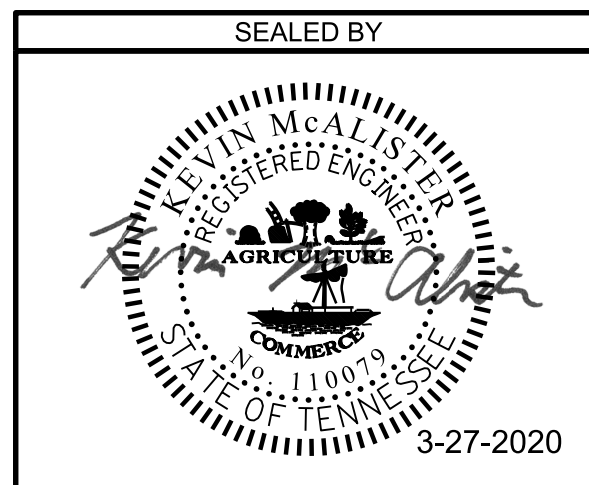


SCREED PLAN

SCREED STATIONS AND ELEVATIONS											
POINT	STATION	ELEVATION	POINT	STATION	ELEVATION	POINT	STATION	ELEVATION	POINT	STATION	ELEVATION
1	2327+74.22	698.20	25	2329+90.96	700.12	49	2328+21.83	700.72	73	2328+52.24	701.30
2	2327+87.96	698.50	26	2330+01.25	700.15	50	2328+31.95	700.87	74	2328+62.34	701.42
3	2328+01.69	698.78	27	2330+11.54	700.16	51	2328+42.08	701.00	75	2328+72.45	701.52
4	2327+93.77	700.35	28	2328+05.96	698.98	52	2328+52.20	701.13	76	2328+82.56	701.62
5	2328+06.90	700.58	29	2328+16.22	699.15	53	2328+62.33	701.24	77	2328+92.67	701.70
6	2328+20.03	700.79	30	2328+26.49	699.30	54	2328+72.45	701.35	78	2329+02.78	701.77
7	2328+05.84	698.80	31	2328+36.75	699.44	55	2328+82.58	701.44	79	2329+12.89	701.82
8	2328+16.13	698.97	32	2328+47.02	699.58	56	2328+92.71	701.53	80	2329+23.01	701.87
9	2328+26.42	699.14	33	2328+57.29	699.70	57	2329+02.83	701.60	81	2329+33.28	701.90
10	2328+36.70	699.29	34	2328+67.56	699.81	58	2329+12.95	701.67	82	2329+43.40	701.92
11	2328+46.99	699.43	35	2328+77.83	699.91	59	2329+23.08	701.72	83	2329+53.53	701.93
12	2328+57.27	699.55	36	2328+88.10	700.00	60	2329+33.22	701.74	84	2329+63.66	701.93
13	2328+67.56	699.67	37	2328+98.37	700.08	61	2329+43.36	701.76	85	2329+73.78	701.91
14	2328+77.84	699.77	38	2329+08.64	700.15	62	2329+53.50	701.76	86	2329+83.91	701.88
15	2328+88.12	699.86	39	2329+18.92	700.19	63	2329+63.64	701.75	87	2329+94.04	701.75
16	2328+98.41	699.93	40	2329+29.21	700.22	64	2329+73.78	701.74	88	2330+04.17	701.61
17	2329+08.54	700.00	41	2329+39.49	700.24	65	2329+83.92	701.70	89	2330+14.31	701.46
18	2329+18.85	700.05	42	2329+49.78	700.24	66	2329+94.07	701.59	90	2330+24.46	701.30
19	2329+29.15	700.09	43	2329+60.07	700.24	67	2330+04.22	701.48	91	2330+34.59	700.21
20	2329+39.45	700.11	44	2329+70.36	700.23	68	2330+14.37	701.34	92	2330+44.73	700.19
21	2329+49.75	700.13	45	2329+80.65	700.20	69	2330+24.53	701.20	93	2330+54.86	700.16
22	2329+60.06	700.13	46	2329+90.94	700.22	70	2328+21.90	700.87	94	2330+64.99	701.20
23	2329+70.36	700.11	47	2330+01.22	700.25	71	2328+32.01	701.03	95	2330+75.12	700.98
24	2329+80.66	700.09	48	2330+11.50	700.26	72	2328+42.13	701.17	96	2330+85.25	700.74



CURVE RAMP\_D-4  
 PI 2328+05.85  
 N 242,337.0975  
 E 2,205,854.8298  
 Δs 12° 53' 56" (LT)  
 θs 1° 59' 59"  
 Δc 8° 53' 57" (LT)  
 Dc 2° 29' 59"  
 Rc 2,292.00  
 Lc 356.00  
 Ts 339.14  
 Ls 160.00  
 SE 0.046 FT/FT  
 DESIGN SPEED 50 MPH  
 TRANS. LENGTH 160'



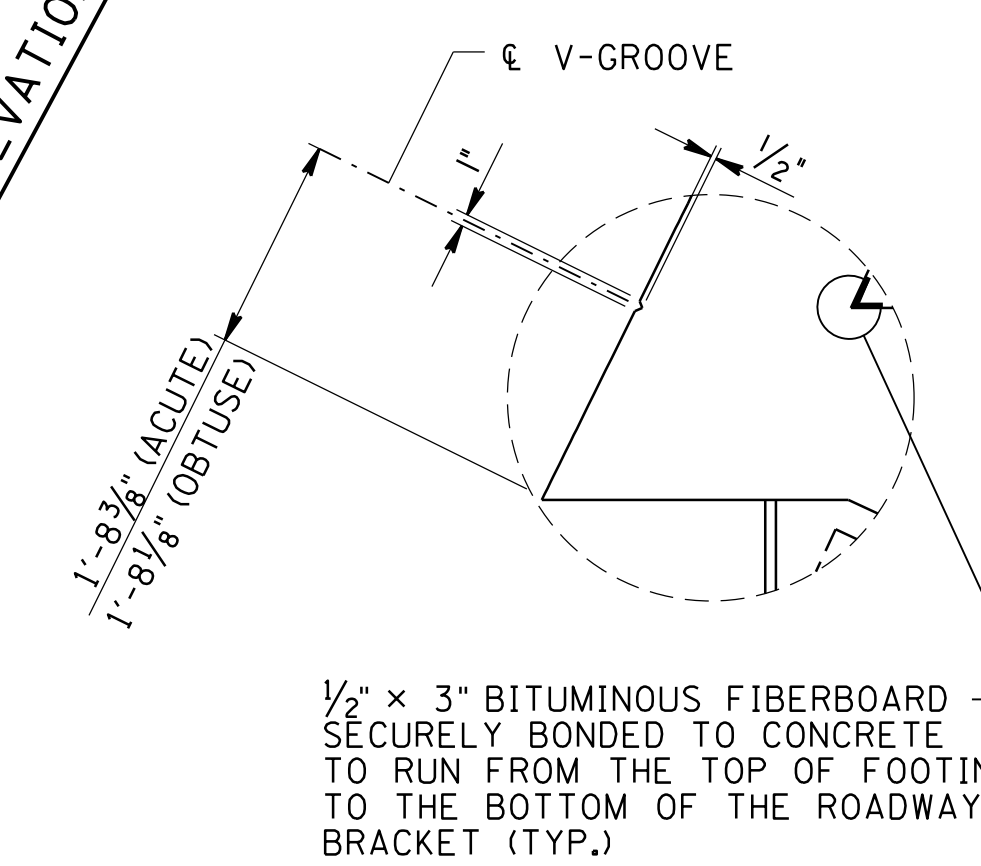
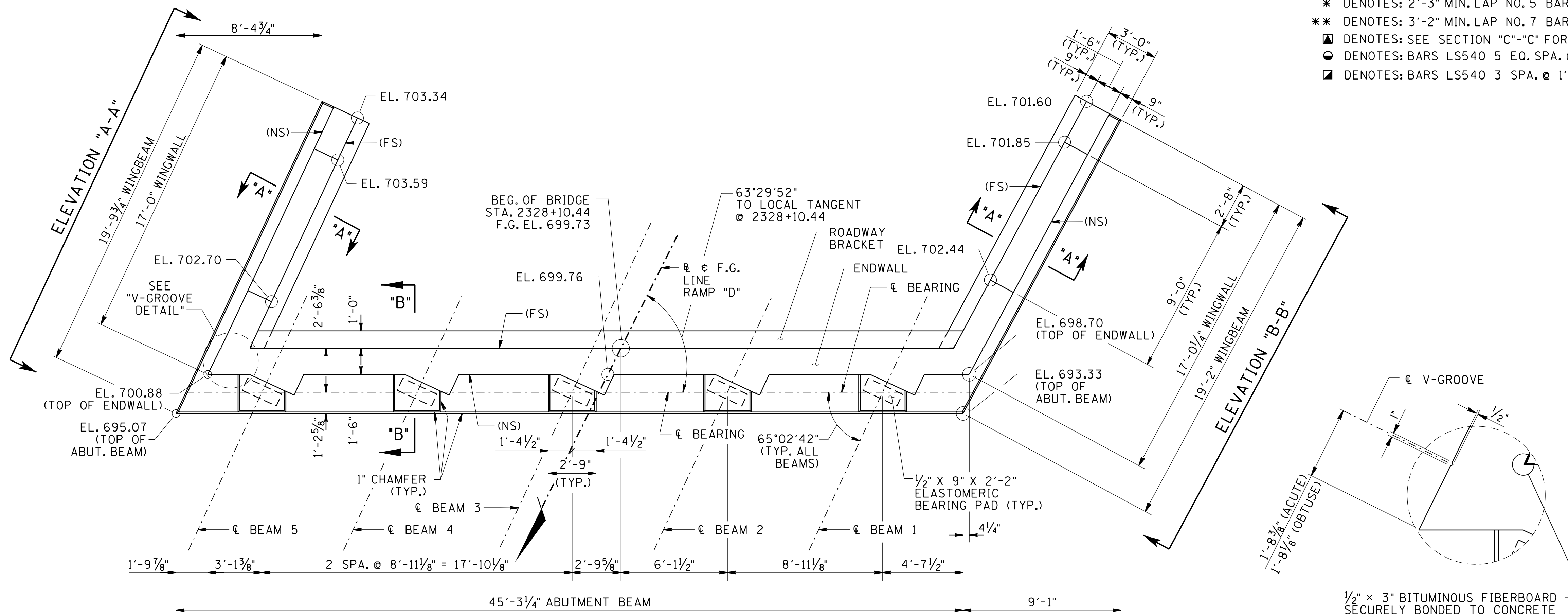
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE NO. 9  
 SCREED PLAN  
 RAMP "D"  
 OVER RAMP "G"  
 HAMILTON COUNTY  
 2019

PIN NO.: 114174.00  
 DESIGN BY: M. DAVIS DATE: 12/2019  
 DRAWN BY: G. NEAL/L. WEBSTER DATE: 12/2019  
 SUPERVISED BY: K. McALISTER DATE: 12/2019  
 CHECKED BY: A. MOORE DATE: 12/2019

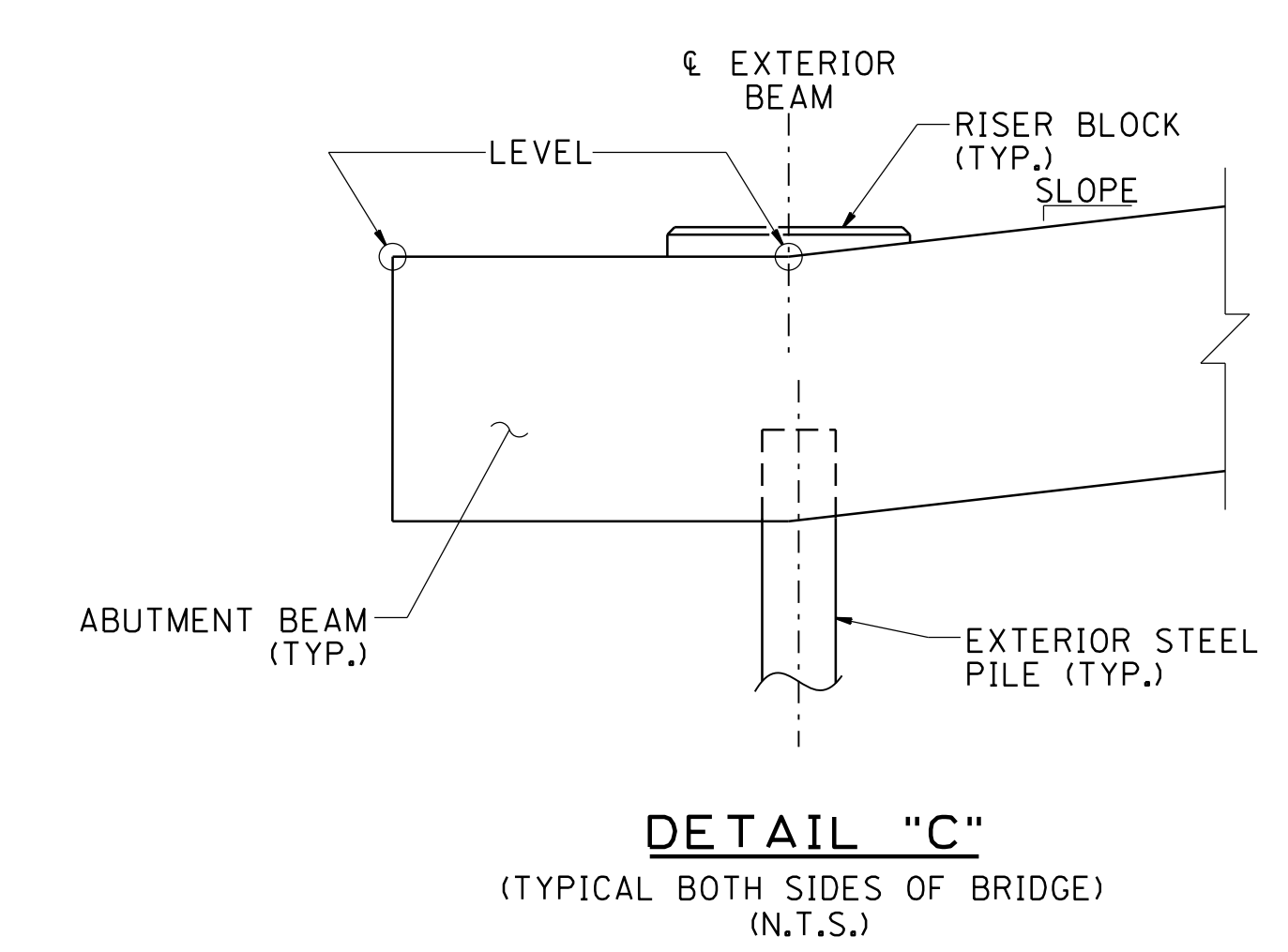
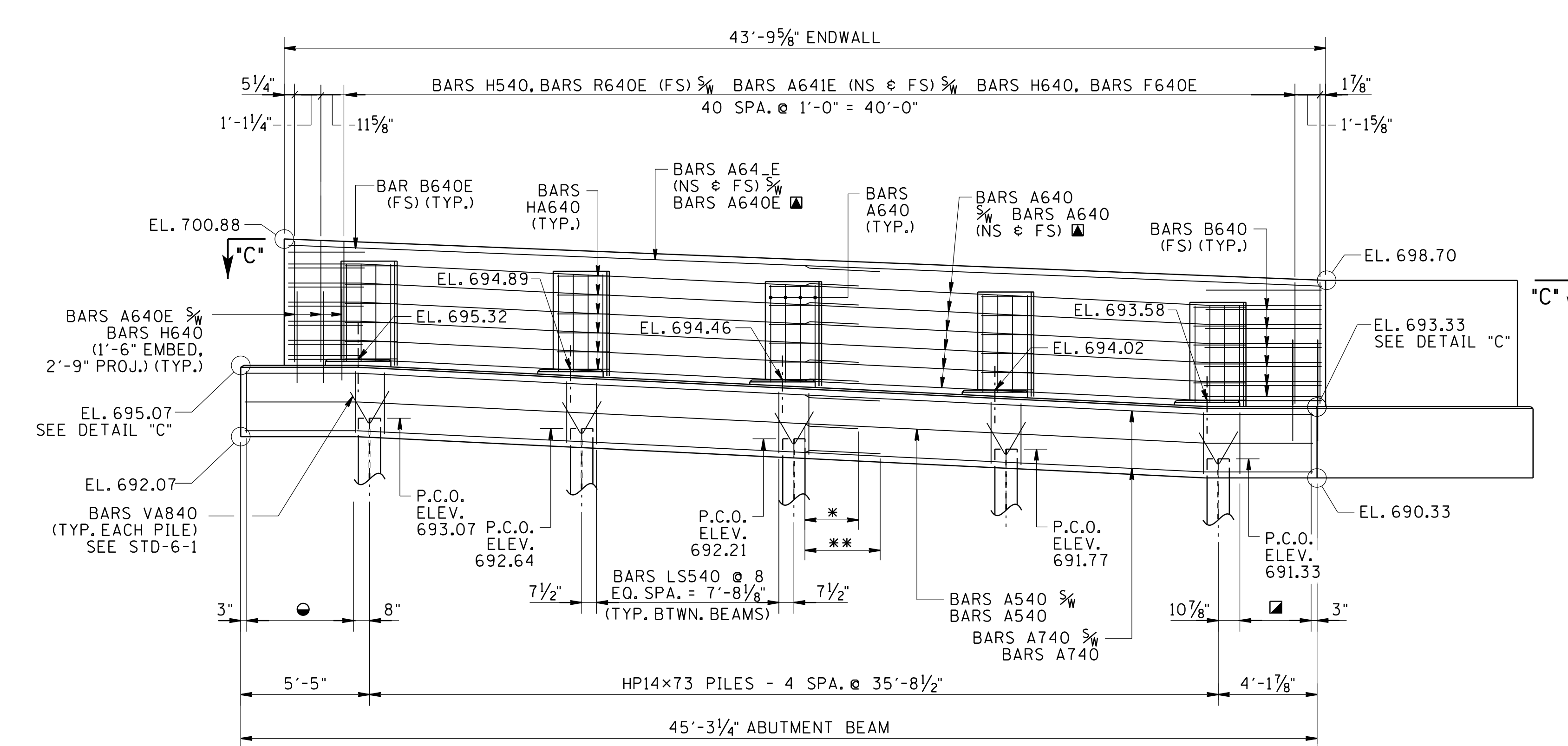
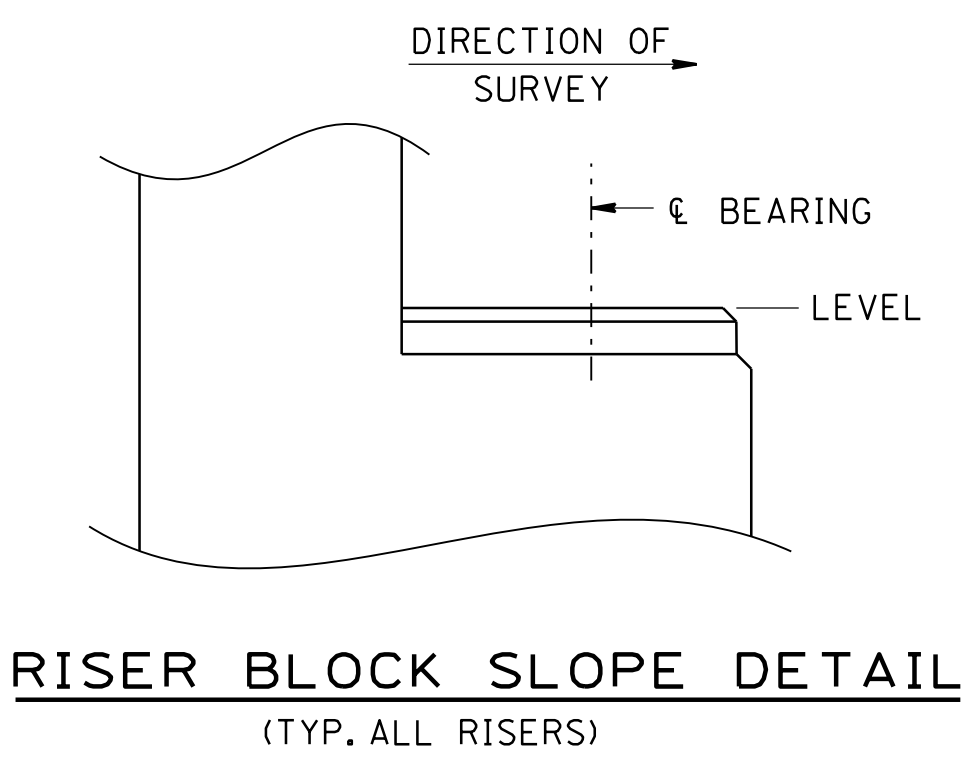
NOTE: SCREED ELEVATIONS SHOWN IN TABLE DON'T INCLUDE 1/4" FOR SLOPE BREAK AT PARAPET. SEE DETAIL "A" ON THIS SHEET.

PROJECT NO.	YEAR	SHEET NO.	
IM/NH-75-1(131)	2019	U-91-250	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	3-27-2020	KSM	REVISED BACKWALL ELEVATIONS
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--	--	--	--

- \* DENOTES: 2'-3" MIN. LAP NO. 5 BARS
- \*\* DENOTES: 3'-2" MIN. LAP NO. 7 BARS
- ⊙ DENOTES: SEE SECTION "C"-"C" FOR MIN LAP
- ⊚ DENOTES: BARS LS540 5 EQ. SPA. ⊙ = 4'-6"
- ⊛ DENOTES: BARS LS540 3 SPA. ⊙ 1'-0" = 3'-0"

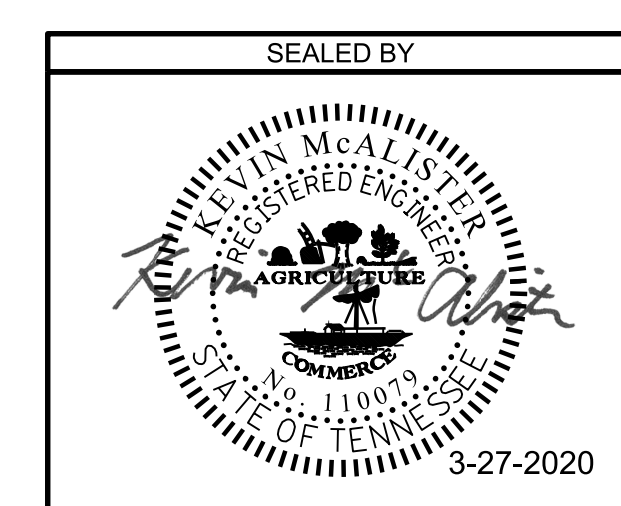


- NOTES:**
1. RISER BLOCKS TO BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
  2. RISER BLOCK BEARING PAD SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
  3. WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOSTS AND PARAPET, SEE STD. DWG. NO. STD-1-1SS.
  4. COST OF BRIDGE RAIL AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE BRIDGE RAIL SYSTEM.
  5. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
  6. NOT LESS THAN HALF OF THE SLAB SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT BACKWALL. AT LEAST THE TOP 12 INCHES OF THE BACKWALL SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB. ONE ABUTMENT BACKWALL MUST BE POURED FULL HEIGHT CONCURRENTLY WITH THE END OF THE SLAB.
  7. SEE STANDARD DRAWING STD-6-1 FOR PILE DETAILS AND NOTES.
  8. WINGBEAM PILES SHALL BE DRIVEN TO REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.



ESTIMATED ABUTMENT QUANTITIES			
LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 1	19	2035	7112

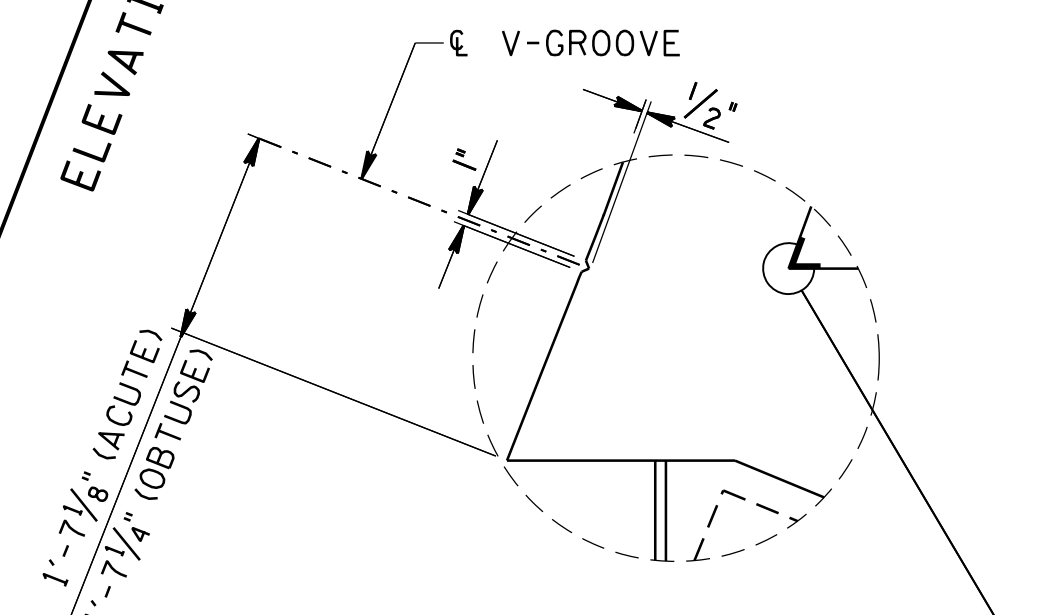
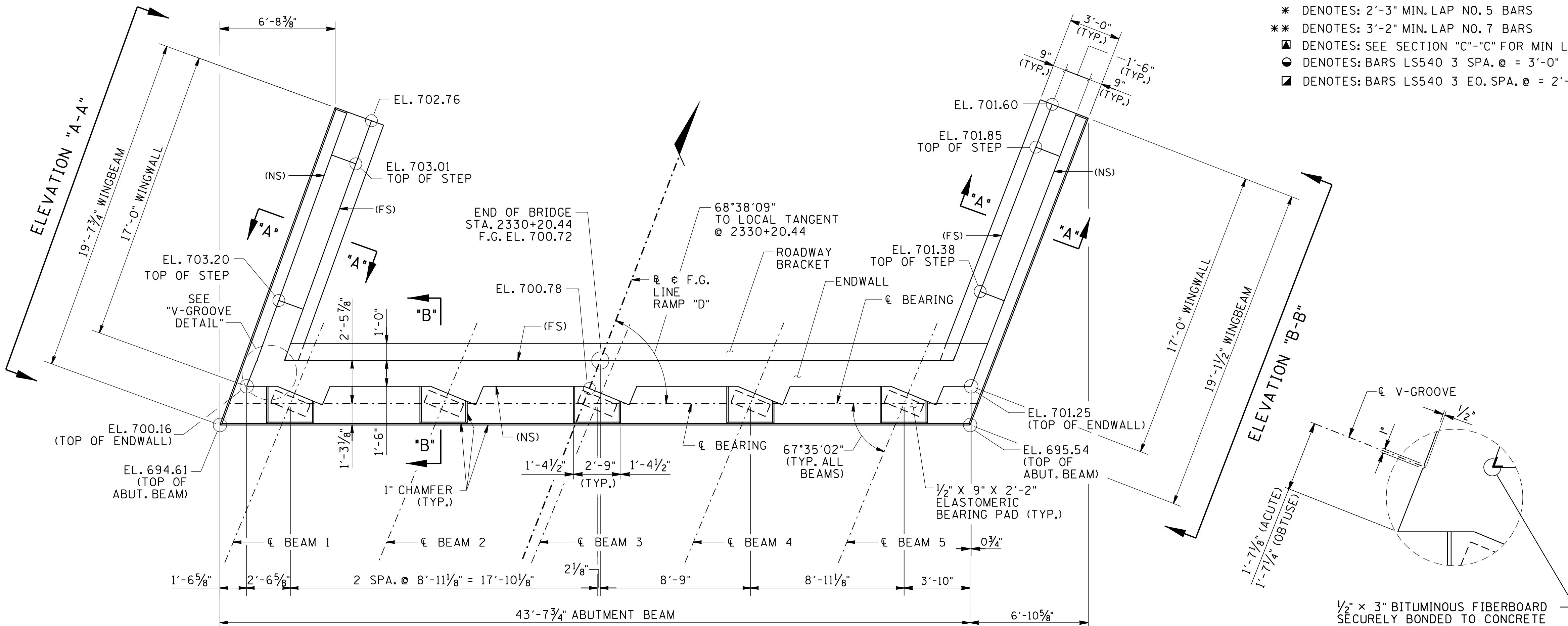
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BRIDGE NO. 9  
ABUTMENT NO. 1  
RAMP "D"  
OVER RAMP "G"  
HAMILTON COUNTY  
2019



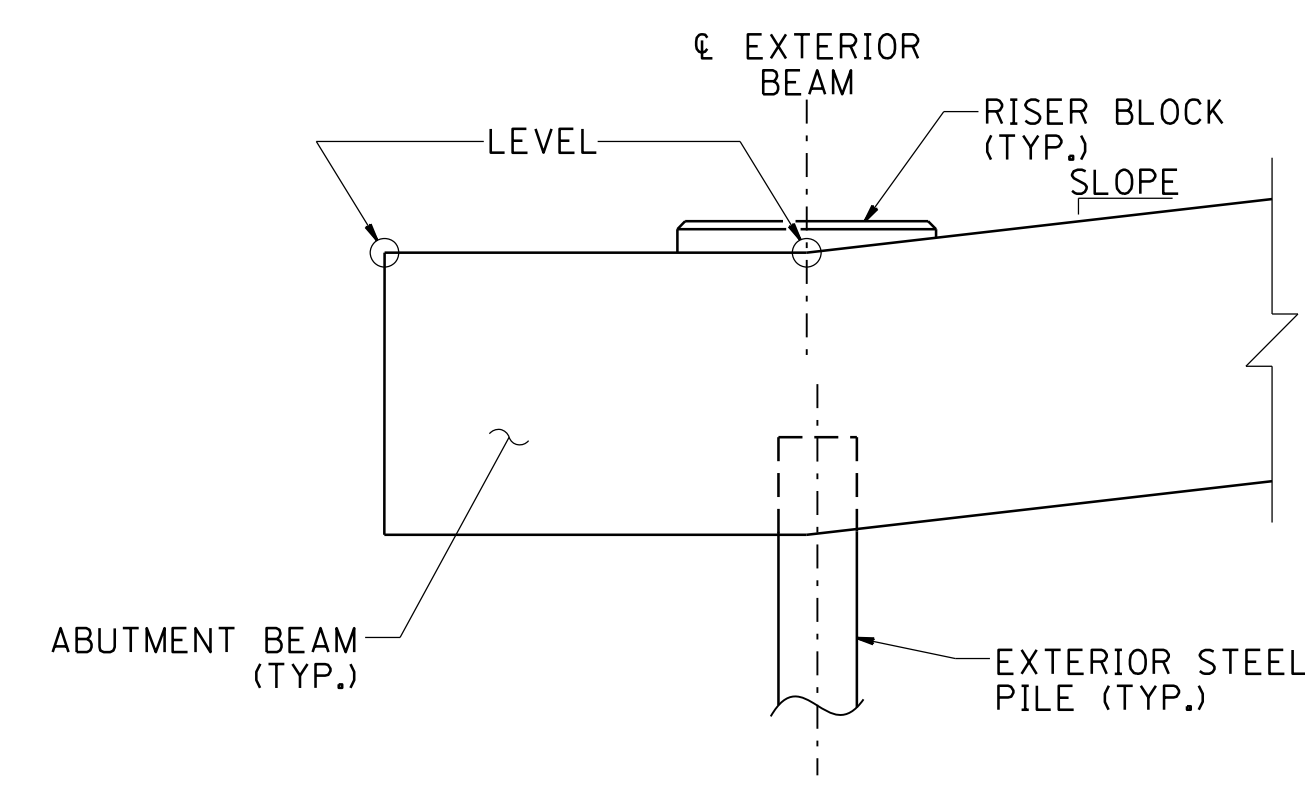
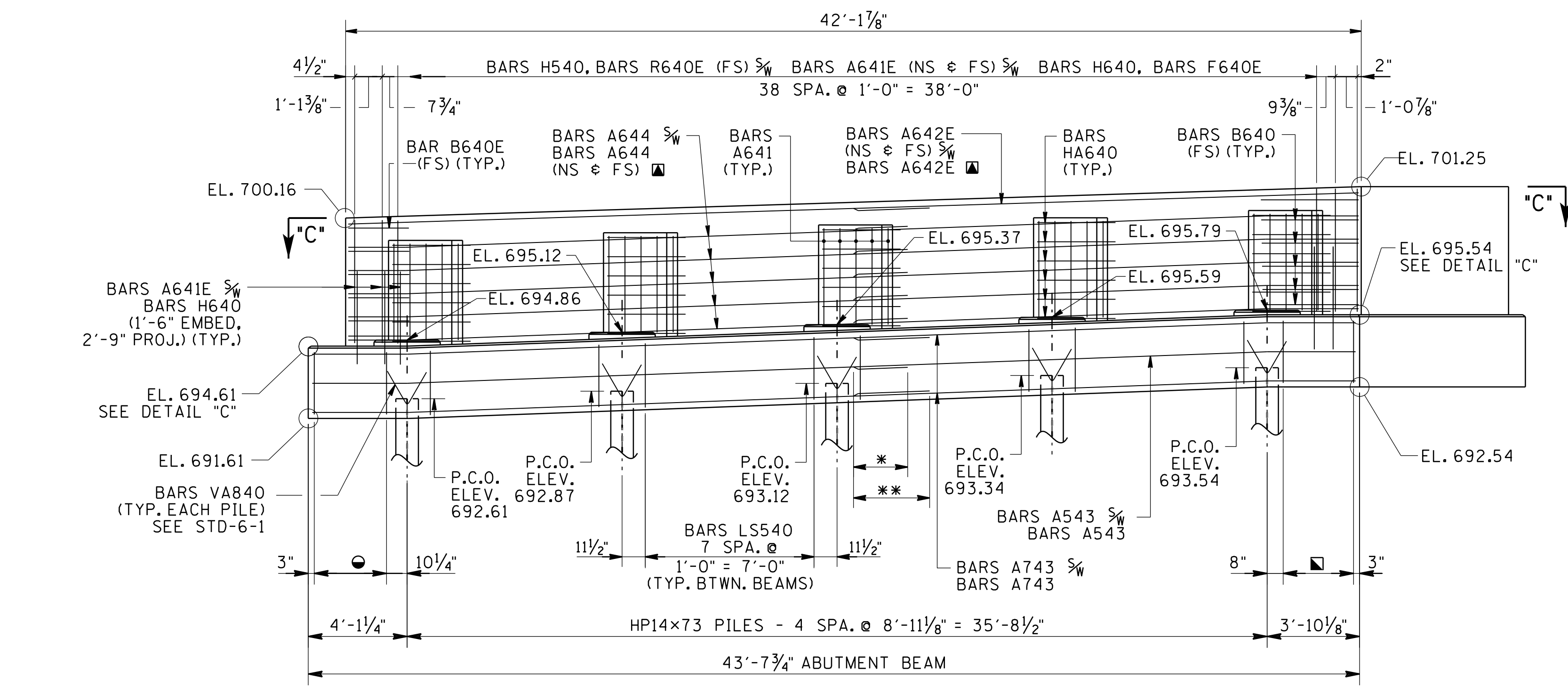
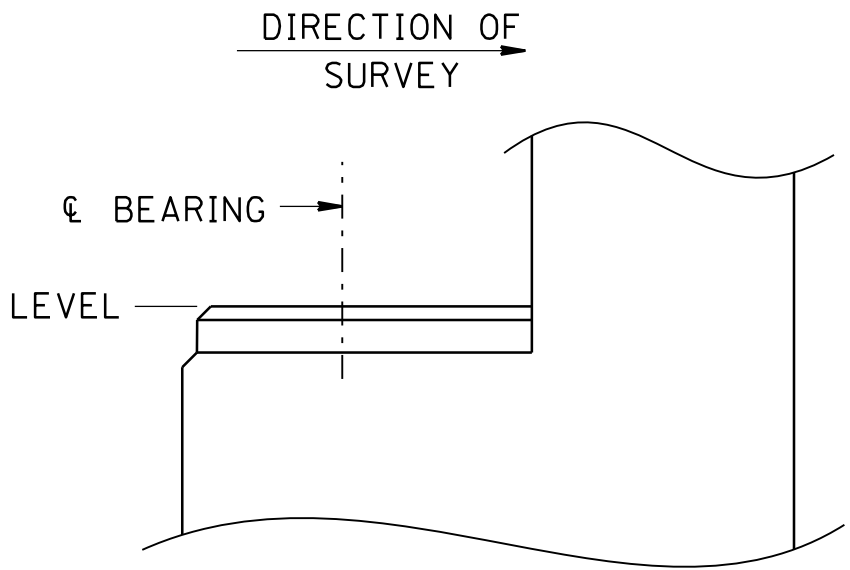
PIN NO.: 114174.00  
DESIGN BY: M. DAVIS DATE: 12/2019  
DRAWN BY: G. NEAL/L. WEBSTER DATE: 12/2019  
SUPERVISED BY: K. McALISTER DATE: 12/2019  
CHECKED BY: A. MOORE DATE: 12/2019

PROJECT NO.	YEAR	SHEET NO.	
IM/NH-75-1(131)	2019	U-91-252	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	3-27-2020	KSM	REVISED BACKWALL ELEVATIONS
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- \* DENOTES: 2'-3" MIN. LAP NO. 5 BARS
- \*\* DENOTES: 3'-2" MIN. LAP NO. 7 BARS
- ⊙ DENOTES: SEE SECTION "C"- "C" FOR MIN LAP
- ⊙ DENOTES: BARS LS540 3 SPA. ⊙ = 3'-0"
- ⊠ DENOTES: BARS LS540 3 EQ. SPA. ⊙ = 2'-11 1/8"

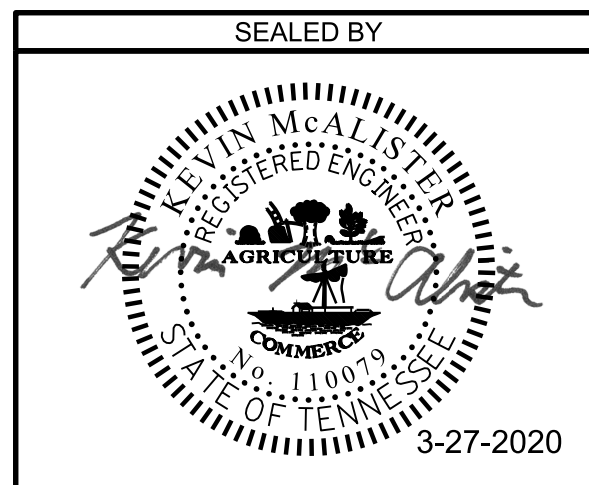


- NOTES:
1. RISER BLOCKS TO BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM.
  2. RISER BLOCK BEARING PAD SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
  3. WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOSTS AND PARAPETS. FOR DETAILS OF WINGPOSTS AND PARAPET, SEE STD. DWG. NO. STD-1-1SS.
  4. COST OF BRIDGE RAIL AND POST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE BRIDGE RAIL SYSTEM.
  5. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
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  7. SEE STANDARD DRAWING STD-6-1 FOR PILE DETAILS AND NOTES.
  8. WINGBEAM PILES SHALL BE DRIVEN TO REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.



ESTIMATED ABUTMENT QUANTITIES			
LOCATION	CLASS "A" CONCRETE (BRIDGES) (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
ABUT. NO. 2	19	1753	6667

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BRIDGE NO. 9  
ABUTMENT NO. 2  
RAMP "D"  
OVER RAMP "G"  
HAMILTON COUNTY  
2019



PIN NO.: 114174.00  
DESIGN BY: M. DAVIS DATE: 12/2019  
DRAWN BY: G. NEAL/L. WEBSTER DATE: 12/2019  
SUPERVISED BY: K. McALISTER DATE: 12/2019  
CHECKED BY: A. MOORE DATE: 12/2019