TRANSPORTATION CABINI DEPARTMENT OF HIGHWA MARION COUNTY SHORTLINE PIKE KY 1195 OVER PLEASANT RUN CREEK STA. 16+00.61

	ESTIMATE OF QUANTITIES																		
BID ITEM CODE	08100	08104	08150	08151	08002	08003	03299	23378EC	25017ED	08662									
BID ITEM	Concrete Class "A"	Concrete Class "AA"	Steel Reinforcement	Steel Reinforcement, Epoxy Coated	Structure Excavation, Solid Rock	Foundation Preparation	Armored Edge for Concrete	Concrete Sealing	Rail System Side Mounted MGS	Precast PC Box Beam CB17-48									
UNIT	C.Y.	C.Y.	LBS.	LBS.	C.Y.	L.S.	L.F.	S.F.	L.F.	L.F.									
Abutment #1	80.0		6659		40.0			607											
Abutment #2	80.0		6659		40.0			607											
Substructu	_														 				
<u>ر</u>	_														 				
													ļ						
Superstructure		20.3		2383			48.2	1192	81.3	288									
BRIDGE TOTALS	160.0	20.3	13318	2383	80.0	1	48.2	2406	81.3	288									



KENTUCKY NSPORTATION CABINET COMMONWEALTH OF KENTUCKY **DEPARTMENT OF HIGHWAYS**

REVISION

USER: joseph.vanzee

DATE		DATE: January 2023	CHECKED BY	TITLE SHEET
	Division of	DESIGNED BY: J. Van Zee	K. Ee	CROSSING
	Structural Design	DETAILED BY: E. Downey	J. Van Zee	Pleasant Creek Run
DATE PLOTTED: 7-NOV-2024	FILE NAME: J:\District04\4-	40000 Marion Co\Details\28693.dgn		

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<u>S4</u>	Foundation Layout
S5-S6 S7	Abutment Details
	Superstructure Construction Elevations
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Special N	Note for Concrete Sealing
	SPECIAL PROVISIONS
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	STANDARD DRAWINGS M6 Box Beam General Notes
BDP-002-0	STANDARD DRAWINGS Mox Beam General Notes Box Beam Bearing Details
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BDP-002-0 BDP-003-0 BDP-004-0 BDP-007-0 BGX-006-1 BHS-011 BGX-022 BJE-001-1 2019 Sta Cor	STANDARD DRAWINGS Box Beam General Notes Box Beam Bearing Details Box Beam Miscellaneous Details Box Beam Miscellaneous Details Box Beam B17 & CB17 Details Standard Specifications for Road and Bridge SHORE STRUCTURE SHOL RFD Bridge Design Specifications

SPECIFICATIONS: All references to the Specifications are to the current edition of the Kentucky SPREAD FOOTING: This Bridge did not have any drilling performed because rock was noted in the Department of Highways Standard Specifications for Road and Bridge Construction with current creek. Supplemental Specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO LRFD Bridge Design Specs, with interims. Based on a review of the existing subsurface conditions and anticipated structural loads, it is recommended that rock bearing foundation system consisting of spread footings be used for all bridge substructure elements. A presumptive bearing resistance of 12 ksf on unweathered bedrock DESIGN LOAD: This bridge is designed for a KYHL-93 live load. The KYHL-93 live load is arrived at is being recommended. by increasing the standard HL-93 truck and lane loads as specified in the AASHTO Specifications by 25%. Excavation for footings at the structure locations should be level and free of loose, water softened material, etc. Additional rock excavation to achieve suitable bearing conditions may be required depending upon topography and bedrock weathering conditions. FUTURE WEARING SURFACE: This Structure is designed for a 15 PSF future wearing surface load. Solid rock excavation will be required for installation of the substructure's spread footings. The contractor shall take care during blasting and other excavation methods to avoid over-breakage and damage to the bedrock beneath the footings. Footing excavations in bedrock shall be cut neatly so that no forming or backfilling is necessary in the construction of the portions of the footings located in rock. Concrete shall be placed directly against the cut rock faces. Mass concrete should be placed in the excavation from the top of the footing to the bedrock surface where the footing does not extend to the bedrock surface. REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete Bearing elevation of footings may be adjusted at the discretion of the Engineer if competent, unweathered bedrock is found at a higher elevation than specified for the respective substructure is 2", unless otherwise noted. Any reinforcing bars designated by suffix (e) in the plans shall be epoxy coated in accordance with section 811.10 of the Standard Specifications. Any reinforcing bars element. The top of new spread footings should be fully embedded into unweathered bedrock. At a designated by suffix (s) in a bill of reinforcement shall be considered a stirrup for purposes of bend minimum, two-foot embedment into competent bedrock shall be maintained. diameters. Prior to placement of any concrete or reinforcing steel in a foundation excavation, the excavation bottom should be clean and all soft, wet, or loose materials should be removed. In no case should BEVELED EDGES: Bevel all exposed edges $\frac{3}{4}$ ", unless otherwise noted. concrete be placed upon compressible or water-softened materials. Any clay seams or suspect weak materials at or near the bearing elevation will need to be undercut and replaced with mass concrete. COMPLETION OF THE STRUCTURE: The Contractor is required to complete the structure in accordance with the plans and specifications. Material, labor or construction operations, not otherwise The bedrock at this location is highly susceptible to weathering and softening in the presence of water. Water must be kept out of the footing excavations. The footing steel and concrete should be specified, are to be included in the bid item most appropriate to the work involved. This may include cofferdams, shoring, excavations, backfilling, removal of all or parts of existing structures, phase placed the same day as or as soon as practical after the footing excavation is made. If the bedrock construction, incidental materials, labor or anything else required to complete the structure. becomes softened at bearing elevation, the softened material shold be undercut to unweathered material prior to placing the concrete. SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to Sheeting, shoring, cofferdams and/or dewatering methods may be required for construction of the the Division of Structural Design. If any changes in the design plans are proposed by a fabricator or substructures. Include all costs in the lump sum bid for Foundation Preparation. supplier, submit those changes to the Department through the Contractor. Removal of existing spread footings will be required in the excavation for proposed spread footings. FOUNDATION DATA: See Foundation Layout Sheet. The existing footings shall be removed and the base of the new spread footings must be at or below the base of the existing footings. (Note: Minimum 2.0 feet of embedment must still be maintained) DIMENSIONS: Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions. SUPERSTRUCTURE SLAB: The superstructure slab shall be poured continuously from end to end of slab before allowing concrete to set.

DESIGN STRESSES:	Concrete Class "A"	~ f'c = 3500 psi
	Concrete Class "AA"	~ f'c = 4000 psi
	Steel Reinforcement	~ Fy = 60,000 psi

MASONRY COATING: Contrary to the Specifications, do not apply Masonry Coating. Apply Concrete Sealing in place of Masonry Coating as noted in CONCRETE SEALER note.

CONCRETE SEALER: All areas detailed in the specifications as requiring masonry coating shall be sealed in accordance with the special note for concrete sealing. The superstructure deck shall also be sealed as shown herein these plans. Concrete surfaces (except the deck) shall receive the ordinary surface finish as described in section 601.03.18(A) prior to being sealed.

CORK: The cost for cork under the superstructure and is incidental to the unit price for Class "AA" Concrete.

VERIFYING FIELD CONDITIONS: The contractor shall verify all dimensions before ordering material. New material that is unsuitable because of variations in the field conditions shall be replaced at Contractors expense.



COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

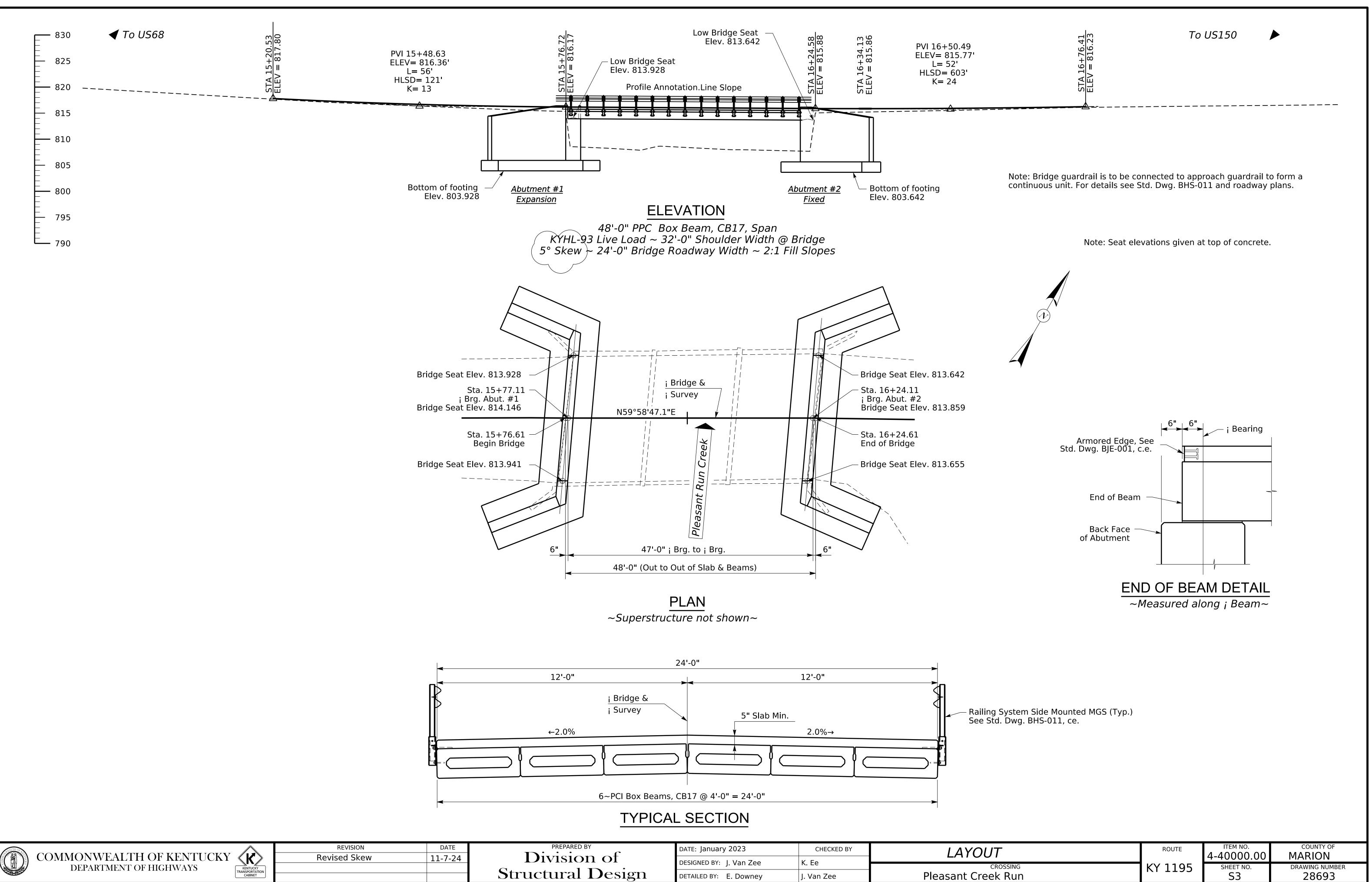
REVISION

GENERAL NOTES

							/
DATE	PREPARED BY	DATE: January 2023	CHECKED BY	GENERAL NOTES	ROUTE	ITEM NO. 4-40000.00	COUNTY OF
	Division of	DESIGNED BY: J. Van Zee	K. Ee				
				CROSSING	T KY 1195	SHEET NO.	DRAWING NUMBER
	Structural Design	DETAILED BY: E. Downey	J. Van Zee	Pleasant Creek Run		S2	28693

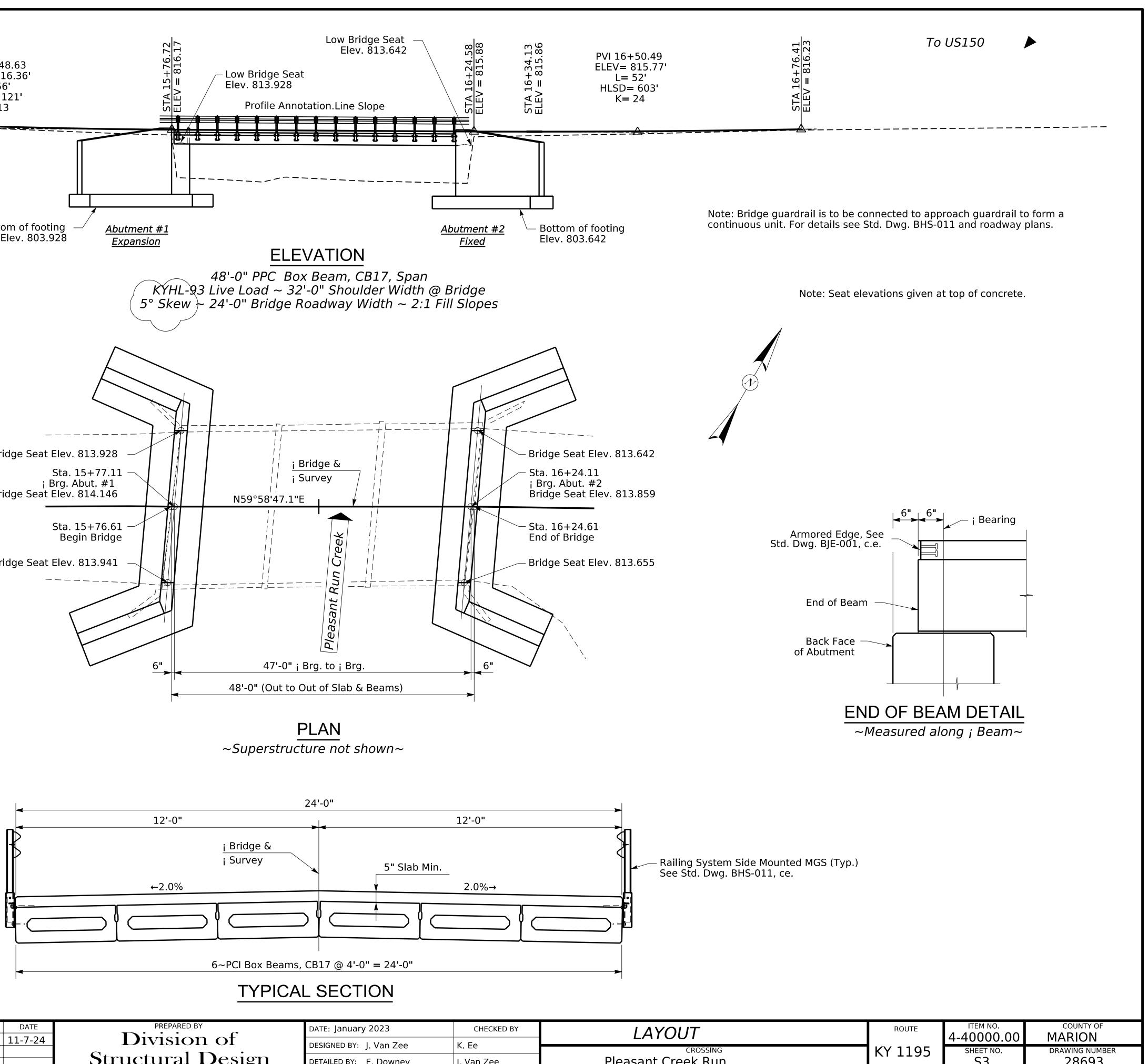
The following abbreviations may have been used in the preparation of these plans:

bet.	Between
b.f.	Back Face
BOF	Bottom of Footing
BOS	Bottom of Slab
bot.	Bottom
Brg.	Bearing
C to C	Center to Center
c.e.	Current Edition
C.Y.	Cubic Yard
Chd.	Chord
CL	Center Line
Clr.	Clear
Conc.	Concrete
Cu.	Cubic
Dwg.	Drawing
e.f.	Each Face
EI.	Elevation
eq.	Equal
Est.	Estimate
Est. Ext.	Exterior
F to F	Face to Face
f.f.	Front Face
f.s.	Far Side
fr.	Front
ft.	Feet
I.D.	Inside Diameter
in.	Inch
Int.	Interior
L	Left
LBS	Low Bridge Seat
LBS.	Pounds
M	Meter
MPH	Miles per Hour
n.s.	Near Side
O.D.	Outside Diameter
Opp.	Opposite
PC	Point of Curve
Perp.	Perpendicular
PI	Point of Intersection
PPC	Precast Prestressed Concrete
PPCDU	Precast Prestressed Concrete Deck Unit
PSI	Pounds per Square Inch
РТ	Point of Tangent
R	Radius
R	Right
RCBC	Reinforced Concrete Box Culvert
RCDG	Reinforced Concrete Deck Girder
Req'd.	Required
RR	Railroad
Shld	Shoulder
spa.	Spaces
Sta.	Station
Std.	Standard
Str.	Straight
Tan	Tangent
Thru	Through
TOF	Top of Footing
TOS	Top of Slab
Tot.	Total
Typ.	Typical
Vert.	Vertical
W. P.	Working Point
Yd.	Yard



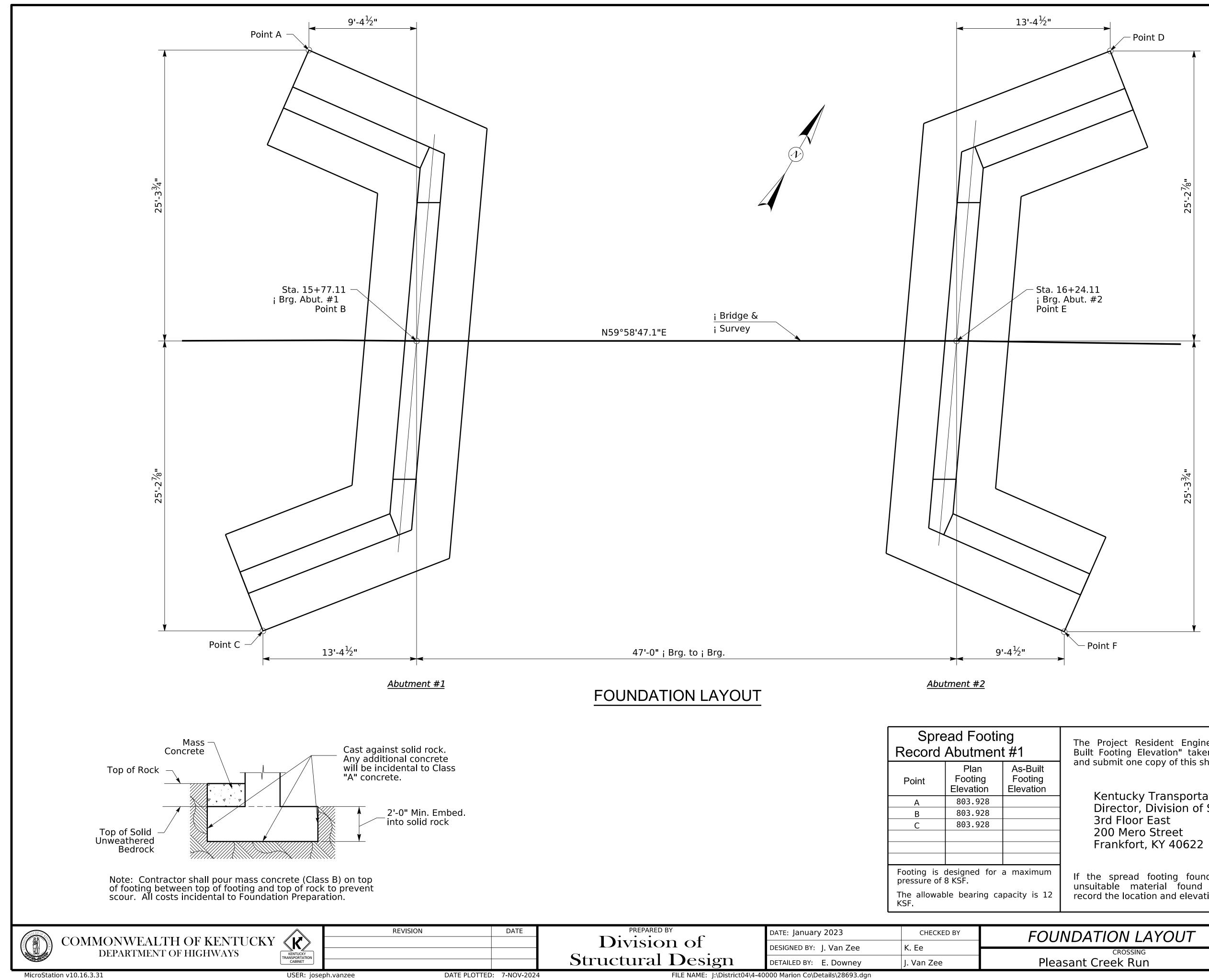


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DATE		DATE: January 2023	CHECKED BY	
11-7-24		DESIGNED BY: J. Van Zee	K. Ee	
	Structural Design	DETAILED BY: E. Downey	J. Van Zee	Ple

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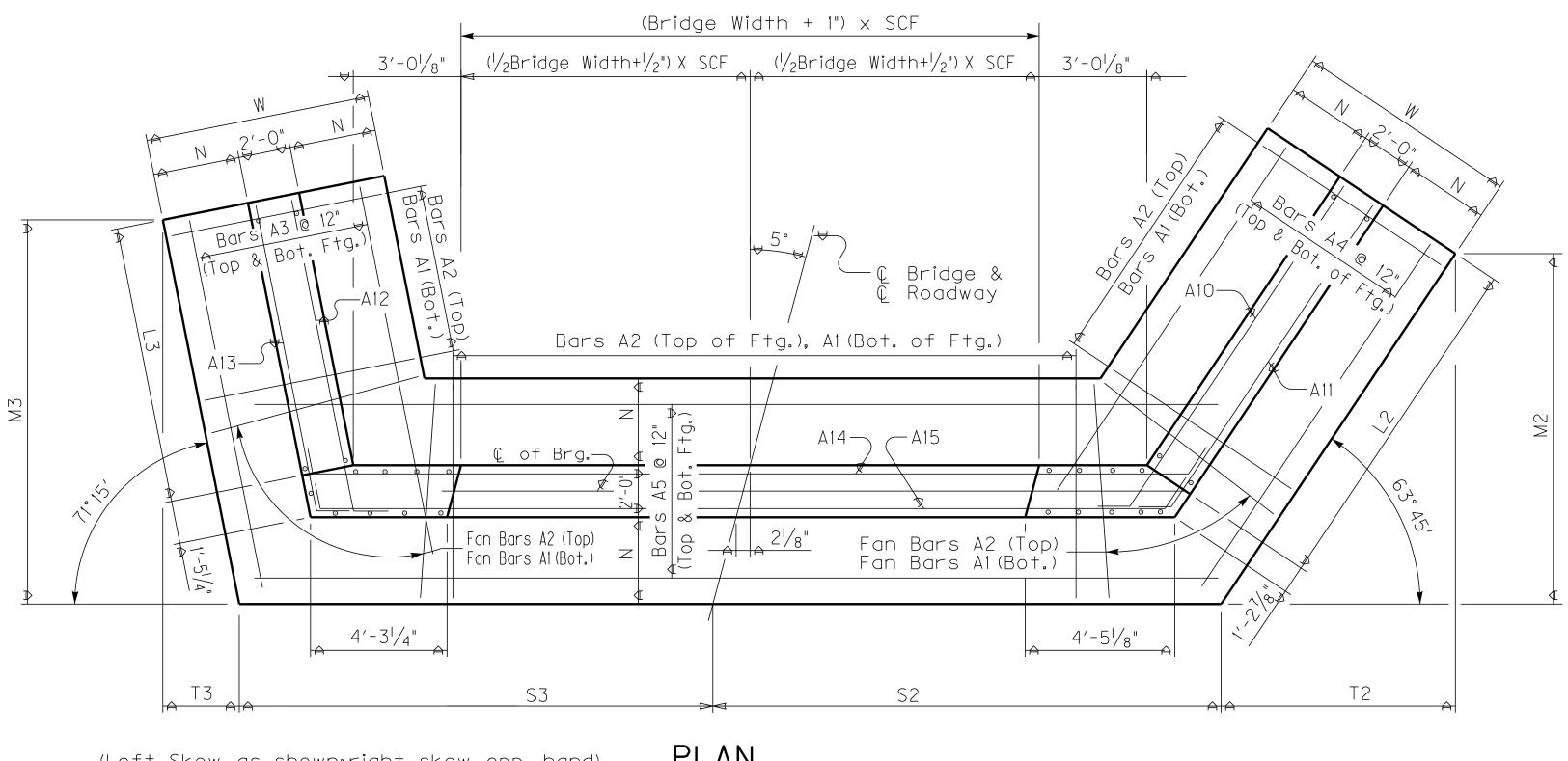
Spread Footing Record Abutment #1		U	The Project Resident Engineer is to reco Built Footing Elevation" taken at the bottor	Spread Footing Record Abutment #2			
Point	Plan Footing Elevation		and submit one copy of this sheet to:	Point	Plan Footing Elevation	As-Built Footing Elevation	
А	803.928	3	Kentucky Transportation Cabinet Director, Division of Structural De	D	803.642		
В	803.928	3		Е	803.642		
С	803.928	3	3rd Floor East	F	803.642		
			200 Mero Street Frankfort, KY 40622				
Footing is designed for a maximum pressure of 8 KSF.		or a maximum	If the spread footing foundation is step unsuitable material found at the giver	Footing is designed for a maximum pressure of 8 KSF.			
The allowable bearing capacity is 12 KSF.		capacity is 12	record the location and elevation of the step a	The allowable bearing capacity is 12 KSF.			
CHEC	CHECKED BY FOU		VDATION LAYOUT		ITEM NO. 4-40000.		COUNTY OF
К. Ее			CROSSING	KV 1105	SHEET NO		

	DATE		DATE: January 2023	CHECKED BY	FO
		Division of	DESIGNED BY: J. Van Zee	K. Ee	100
		Structural Design	DETAILED BY: E. Downey	J. Van Zee	Ple
ATTEN	7 NOV 2024				

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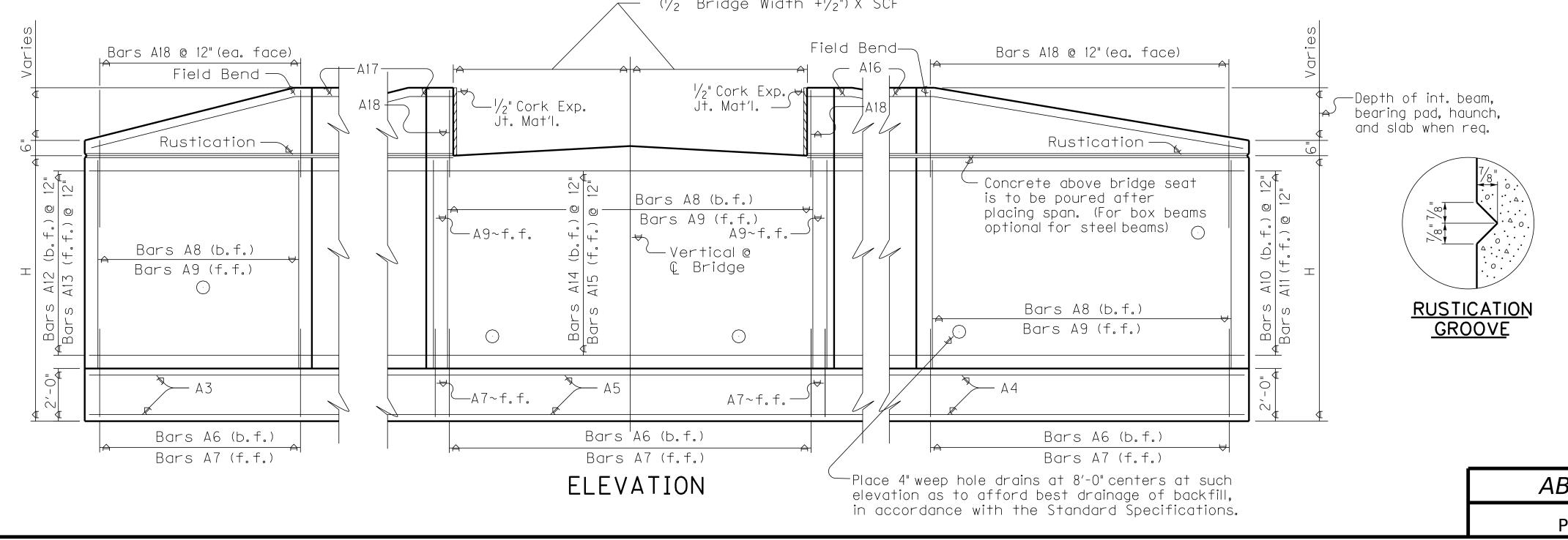
DUNDATION LAYOUT	ROUTE	ITEM NO. 4-40000.00	COUNTY OF
CROSSING	KY 1195	SHEET NO.	drawing number
Pleasant Creek Run		S4	28693

5° SKEW VARIABLE BRIDGE WIDTH 2:1 FILL SLOPES WINGS SKEWED 25% FROM ROADWAY TO BREASTWALL

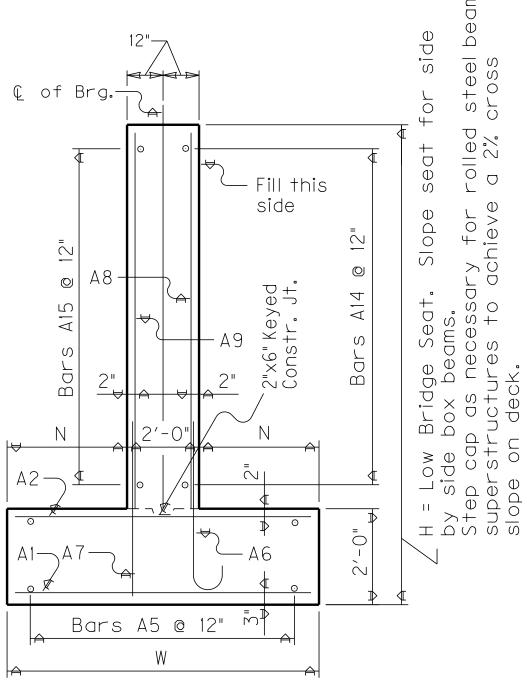


(Left Skew as shown;right skew opp. hand)

PLAN



ABUTMENT SKEW CORRECTION FACTOR (SCF) = 1.004

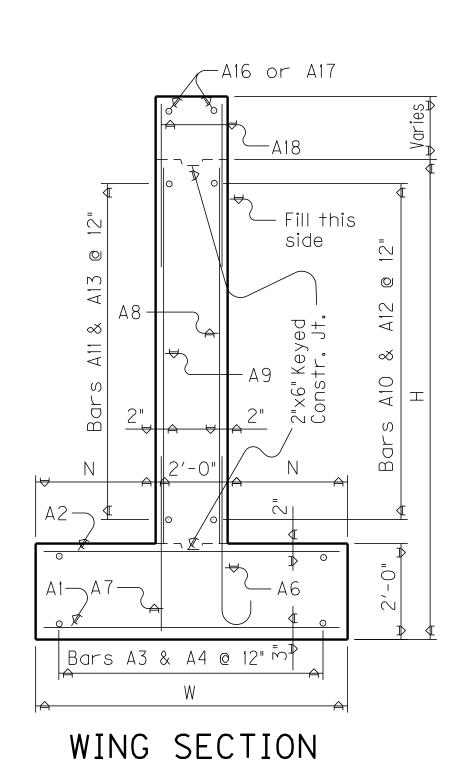


WALL SECTION

Note: Trim A16 & A17 bars if necessary

 $(\frac{1}{2}$ Bridge Width + $\frac{1}{2}$ ") X SCF

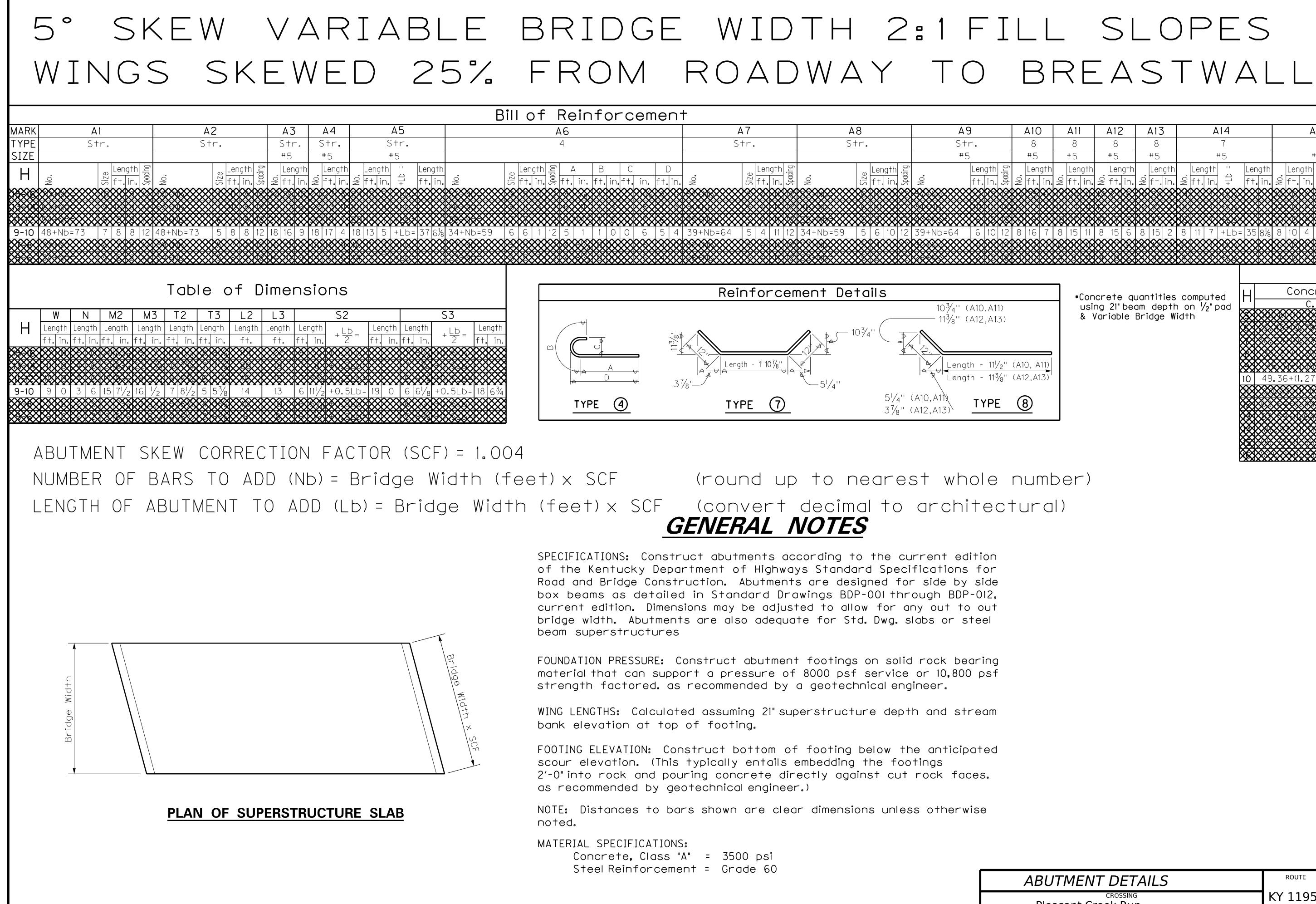






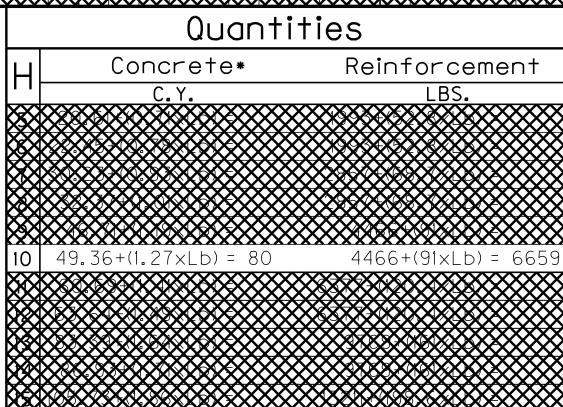
PLAN OF SUPERSTRUCTURE SLAB

BUTMENT DETAILS	ROUTE	ITEM NO. 4-40000.00	COUNTY OF
CROSSING Pleasant Creek Run	KY 1195	sheet no. S5	drawing number 28693

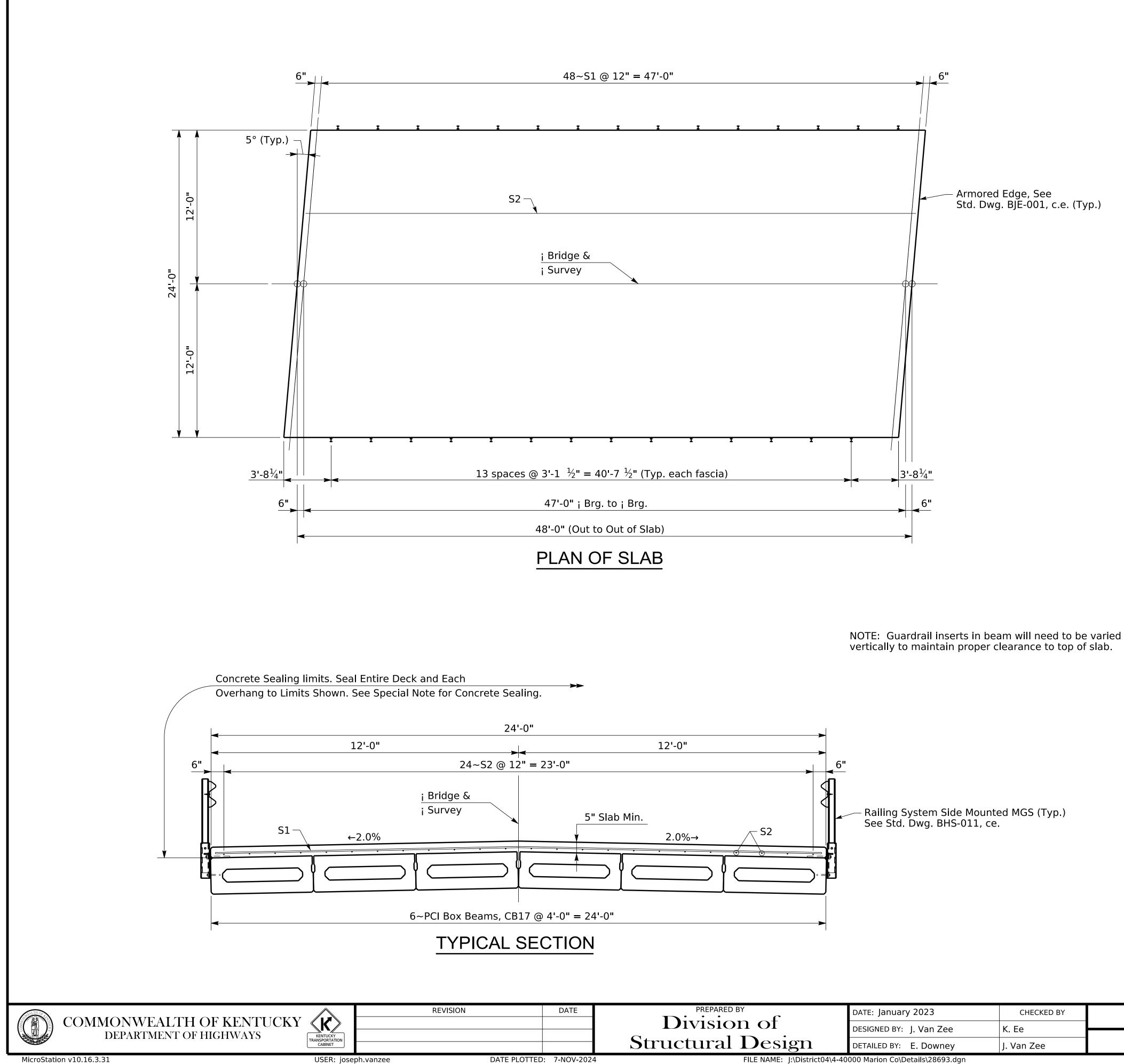


A13 A12 A14 A17 A18 A11 A15 A16 Str. 8 8 Str. Str. 8 #5 #5 #5 #5 #5 #5 #5 #5 ILenat

*Concrete quantities computed using 21" beam depth on 1/2" pad & Variable Bridge Width



BUTMENT DETAILS	ROUTE	ITEM NO. 4-40000.00	COUNTY OF
CROSSING Pleasant Creek Run	KY 1195	sheet no. S6	drawing number 28693



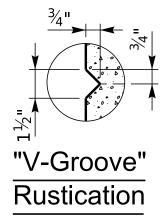
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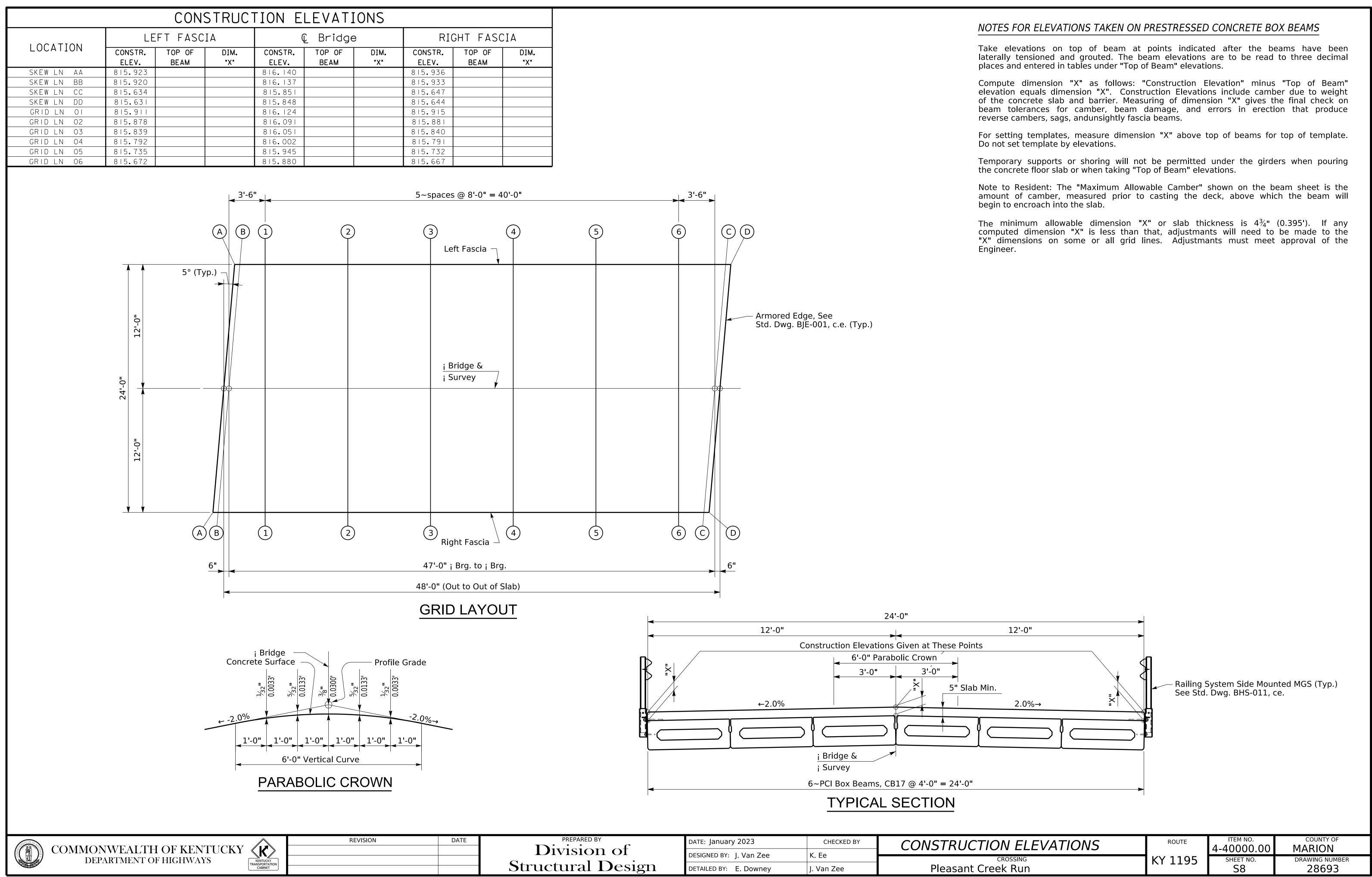
vertically to maintain proper clearance to top of slab.

DATE	PREPARED BY	DATE: January 2023	CHECKED BY	SUPSERSTRUCTURE	ROUTE	ITEM NO.	COUNTY OF
	Division of		К. Го	SUPSERSTRUCTURE		4-40000.00	MARION
		DESIGNED BY: J. Van Zee K. Ee	K. Ee	CROSSING	KY 1195	SHEET NO.	DRAWING NUMBER
	Structural Design	DETAILED BY: E. Downey	J. Van Zee	Pleasant Creek Run		S7	28693
		2000 Marian Cal Datails 28602 dan					

BILL OF REINFORCEMENT					
MARK	TYPE	NO.	SIZE	LENGTH	LOCATION
Sle	Str.	48	5	23-9	Slab
S2e	Str.	24	5	47-8	Slab

NOTE: Contrary to the Standard Drawings (5" slab thickness), the construction elevations will cause the slab to be approximately 6.4" thick at the ends and go to approximately 5" thick at the center of the bridge. This is how the quantities of Class AA Concrete were calculated. There should not be any additional concrete due to the max and min. allowable slab depths shown on the constsruction elevations.





USER: joseph.vanzee

DATE PLOT

RIGHT FASCIA						
ONSTR. ELEV.	TOP OF BEAM	DIM. "X"				
15.936						
15.933						
15.647						
15.644						
15.915						
5.88						
15.840						
15.791						
15.732						
15.667						

	DATE		DATE: January 2023	CHECKED BY	CONST	
		Division of	DESIGNED BY: J. Van Zee	K. Ee	CONS	
			J. Van Zee			
		Structural Design	DETAILED BY: E. Downey	J. Van Zee	Ple	
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